



HOWARD STEIN HUDSON

Engineers + Planners

SUPPLEMENTAL DATA REPORT

Proposed Multi-family Development

51-53-55 Summer Street

Walpole, Massachusetts

Prepared by:

Howard Stein Hudson

114 Turnpike Road, Suite 2C
Chelmsford, MA 01824

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Existing Conditions

The subject site consists of three parcels totaling 54.73 acres in the Limited Manufacturing – LM zone. The addresses of record for the parcels are 51-53-55 Summer Street. Summer Street has a 50-foot-wide right-of-way along the frontage of the existing lots. There are no existing buildings or improvements on site. The site extends to the east side of the railroad tracks. On the north side there is a Park, School, Recreation & Conservation (PSRC) zoned area encompassing a large wetland area. On the west and south sides there is Residence B (RB) zoned properties.

There is a railroad yard located on the abutting property on the east side of our project site in the LM zone, across from the railroad right-of-way. The PSRC zone does not contain any existing buildings. An RB zone exists to the west and south of the parcel and contain residential dwellings with associated improvements (such as stand-alone garages, pools, sheds, driveways, etc).

The site contains a mix of woodlands, isolated vegetated wetlands, bordering vegetated wetlands, vernal pools, and open grassed areas. All three vernal pools are denoted as potential vernal pools at this time. This property is located within the Area 3 – Primary Recharge Area Water Resource Protection Overlay District and partially within the Large-Scale Ground-Mounted Solar Photovoltaic Overlay District (SPOD). The terrain ranges on site from elevation 186' to 228' Mean Sea Level, with the lower areas generally being wetlands and the higher elevations being upland areas. The site topography decreases from south to north starting at Summer Street and ending at Cedar Swamp Brook at the rear of the site. The site currently accepts direct runoff from abutters on the south and west sides. This runoff flows into a wetland on the northern side of the property. Existing flow patterns are generally from the south and west towards north, with localized flow in other directions due to the site terrain.

The site hydrology consists of upland areas flowing to both isolated and bordering vegetated wetlands existing across the entirety of the site. The entire site drains to four analysis points. The first (AP1) is a small portion of the entrance to the site that drains back onto Summer Street and into the drainage system located within Summer Street. This takes up a very small portion of the site drainage. The second analysis point (AP2) for the site is an isolated wetland which is located adjacent to the existing train tracks on the eastern side of the property. This depression has an outlet which flows under the railroad tracks, but it is currently completely blocked; water collects here and slowly infiltrates into the soil. The third analysis point is another wetland area (AP3). This isolated pocket is located adjacent to the eastern train tracks and the other depressed wetland pocket, AP2, and collects and infiltrates water. The final analysis point (AP4) is Cedar Swamp Brook which runs along the entirety of the northern part of the property.



The only drainage infrastructure located onsite is the blocked outlet pipe which runs under the existing railroad tracks. There is an existing storm drain system in Summer Street with a catch basin located along the site's frontage.

Soil conditions on site are mainly Fine Sandy Loam (Canton, Ridgebury, Whitman, Scituate, and Merrimac) with a smaller area of Hollis-Rock Outcrop-Charlton Complex. The hydrologic soil group for these soils area A, B, C & D with a majority belonging to groups B, C & D.

Both town and private sewer, water, electricity, gas, and communications are currently located within the Summer Street right-of-way, which is the preferred source of utilities to service the project.

Proposed Conditions

This project proposes to construct a multifamily housing development consisting of apartment buildings and townhouses for rent and single-family homes which will be individually owned. This project is to be serviced by municipal utilities. An easement was purchased from the abutter located at 87 Summer Street to facilitate a second means of emergency access and looped water service for the development.

The existing site is proposed to be improved with the addition of stormwater best management practices which are designed to treat, detain, and infiltrate the proposed impervious areas on the developed site, directing stormwater to the same four (4) analysis points.

There are six (6) main stormwater treatment trains proposed within the new development. The first main treatment train drains to Pond P204 which is the proposed Stormtech infiltration system located to the east of the proposed multi-family building #2. This treatment train takes the clean roof runoff from the multi-family building #2, the adjacent townhouse unit and some of the pavement runoff to the north of multi-family building #2. This treatment train outlets to the adjacent wetland and flows to Analysis Point #4.

Treatment train #2 drains to Pond P205 which is located at the end of the northernmost cul-de-sac on the southernmost portion of the lot. This Pocket Wetland treats and detains the flow from the pavement and houses while maintaining the peak flows onsite. The road drains from the southernmost cul-de-sac to the northwestern cul-de-sac, where the drain manhole outlets into the ponds sediment forebay and ultimately into the Constructed Stormwater Wetland system. This treatment train outlets to the adjacent wetland and flows to Analysis Point #4.



Treatment train #3 drains to Pond P206, the second Stormtech chamber system onsite, which is located behind multi-family building #1. This Stormtech system accepts all the clean roof runoff from multi-family building #1 as well as the associated pretreated street drainage on the northern side of the building. This drainage is piped into the system, treated, and infiltrated onsite prior to out-letting to the adjacent wetland system and flowing to Analysis Point #4

Treatment train #4 drains to Pond P207 which is located on the western side of multi-family building #1 and accepts most of the street and open-space drainage located adjacent to multi-family buildings 1 and 2. This treatment train outlets to the adjacent wetland and flows to Analysis Point #4.

Treatment train #5 drains to Pond P210 which is located north of Driveway B, on the eastern side of the property adjacent to the railroad tracks after the two (2) townhouse cluster of buildings just to the northeast of the project entry. This Pocket Wetland handles all the associated street drainage from the beginning section of Driveway A until the first wetland crossing including the pavement from Driveway B. This treatment train outlets to the adjacent wetland and flows to Analysis Point #2.

Treatment train #6 drains to Pond P212 which is located between Driveway C, Driveway D, and wetland system C, in the center of the development. This Infiltration Pond takes all the street drainage from high points of both crossings to more than halfway down Driveway C and D. All the houses internal to both Driveways are treated by this pond. This treatment train outlets to the adjacent wetland and flows to Analysis Point #4.

The remainder of the clean roof runoff from the single-family houses and townhouse units are handled with individual drip edge systems which outlet to either Analysis Point # 2, 3, or 4 via overland flow.

The remainder of the land, which was untouched will flow, as it currently does, to the existing analysis points.



Stormwater Management Standards

Standard 1: No new untreated discharges

The Massachusetts Stormwater Handbook requires that the project demonstrates that no new stormwater conveyances (e.g. outfalls) discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

The proposed project will not discharge stormwater directly to, or cause erosion in, wetlands or water of the Commonwealth and will treat stormwater prior to discharge or infiltration.

BMP's have been proposed to treat stormwater collected from the newly paved areas. Each treatment chain consists of a deep sump hooded catch basin, grassed channel and a sediment forebay which is sized to accommodate the water quality volume per the Massachusetts Stormwater Handbook.

The new discharges have been designed to outlet to flared end sections with riprap to minimize any erosion to the isolated vegetated wetland. The table below shows the average flow rate for the 2-year storm event in feet per second (fps).

Storm Event	2-year
Flared End Section (Pond 204) (fps)	2.77
Flared End Section (Pond 205) (fps)	6.99
Flared End Section (Pond 206) (fps)	0.60
Flared End Section (Pond 207) (fps)	0.00
Flared End Section (Pond 210) (fps)	5.51
Flared End Section (Pond 212) (fps)	1.81



Standard 2: Post-development peak discharge rates not to exceed pre-development peak discharge rates.

Post-development peak discharge rates do not exceed the pre-development peak discharge rates and total runoff volumes for all storm events except for a runoff volume increase to Analysis Point #4 (Cedar Brook). The proposed condition reduces rates by collecting and controlling the stormwater runoff within the stormwater management system.

Storm Event	2-year	10-year	25-year	100-year
Pre-Development Rates (cfs) AP1 Volume (cf) (Summer St)	0.74 2,360	1.28 4,159	1.71 5,619	2.59 8,714
Post-Development Rates (cfs) AP1 Volume (cf) (Summer St)	0.70 2,241	1.15 3,803	1.50 5,055	2.23 7,690
Rate Reductions (cfs) Volume Reductions (cf)	-0.04 -119	-0.13 -356	-0.21 -564	-0.36 -1,024
Pre-Development Rates (cfs) AP2 Volume (cf) (Wetland at track)	12.30 85,349	27.75 184,006	41.12 270,829	70.33 464,971
Post-Development Rates (cfs) AP2 Volume (cf) (Wetland at track)	8.39 83,261	19.34 168,903	30.93 246,738	58.35 417,853
Rate Reductions (cfs) Volume Reductions (cf)	-3.91 -2,088	-8.41 -15,103	-10.19 -24,091	-11.98 -47,118
Pre-Development Rates (cfs) AP3 Volume (cf) (Wetland at track)	2.52 8,514	5.96 18,960	8.96 28,279	15.56 49,317
Post-Development Rates (cfs) AP3 Volume (cf) (Wetland at track)	1.20 4,014	2.77 8,786	4.12 13,012	7.09 22,504
Rate Reductions (cfs) Volume Reductions (cf)	-1.32 -4,500	-3.19 -10,174	-4.84 -15,267	-8.47 -26,813
Pre-Development Rates (cfs) AP4 Volume (cf) (Cedar Brook)	10.77 73,247	33.90 192,708	56.04 306,701	107.72 576,512
Post-Development Rates (cfs) AP4 Volume (cf) (Cedar Brook)	7.38 88,185	24.37 220,048	40.32 344,849	106.14 648,428
Rate Reductions (cfs) Volume Reductions (cf)	-3.39 14,938	-9.53 27,340	-15.72 38,148	-1.58 71,916



Standard 3: Minimize or eliminate loss of annual recharge to groundwater.

Groundwater recharge will be accomplished using the surface infiltration and subsurface practices. As shown in the table summary for Standard 2, the project decreases the total volume of runoff for all storm events except for a runoff volume increase to Analysis Point #4 (Cedar Brook). This reduction in volume is generated by collecting and infiltrating a significant portion of the impervious surfaces created on site.

Recharge Volume Requirement:

$$Rv = F \times \text{impervious area}$$

Rv = Required Recharge Volume, expressed in Ft^3 , cubic yards, or acre-feet

F = Target Depth Factor associated with each Hydrologic Soil Group

Impervious Area = pavement and rooftop area on site

Recharge volume for the entire site:

Soil A:

$$Rv = 0.60 \text{ in} \times 50,706 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = \mathbf{2,536 \text{ cf recharge}}$$

Soil B:

$$Rv = 0.35 \text{ in} \times 189,367 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = \mathbf{5,523 \text{ cf recharge}}$$

Soil C:

$$Rv = 0.25 \text{ in} \times 294,127 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = \mathbf{6,128 \text{ cf recharge}}$$

Soil D:

$$Rv = 0.1 \text{ in} \times 50,396 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = \mathbf{420 \text{ cf recharge}}$$

Total Recharge Required:

$$Rv = (2,536 \text{ cf}) + (5,523 \text{ cf}) + (6,128 \text{ cf}) + (420 \text{ cf}) = \mathbf{14,607 \text{ cf total recharge required}}$$

Total recharge provided:

$$\text{Drip Edge Houses Model A} = 195 \text{ cf below each outlet} = (195 \text{ cf}) \times (12 \text{ units}) = 2,340 \text{ cf}$$

$$\text{Drip Edge Houses Model B} = 175 \text{ cf below each outlet} = (175 \text{ cf}) \times (6 \text{ units}) = 1,050 \text{ cf}$$

$$\text{Drip Edge Houses Model C} = 175 \text{ cf below each outlet} = (175 \text{ cf}) \times (6 \text{ units}) = 1,050 \text{ cf}$$

$$\text{Drip Edge Houses Model D} = 161 \text{ cf below each outlet} = (161 \text{ cf}) \times (6 \text{ units}) = 966 \text{ cf}$$

$$\text{Drip Edge Houses Model E} = 164 \text{ cf below each outlet} = (164 \text{ cf}) \times (9 \text{ units}) = 1,476 \text{ cf}$$

$$\text{Drip Edge Houses Model F} = 231 \text{ cf below each outlet} = (231 \text{ cf}) \times (3 \text{ units}) = 693 \text{ cf}$$

$$\text{Drip Edge Houses Model G} = 151 \text{ cf below each outlet} = (151 \text{ cf}) \times (5 \text{ units}) = 755 \text{ cf}$$

$$\text{Townhouse Drip Edges (4 Unit - A)} = 82 \text{ cf below outlet} = (82 \text{ cf}) \times (2 \text{ buildings}) = 164 \text{ cf}$$

$$\text{Townhouse Drip Edges (4 Unit - B)} = 96 \text{ cf below outlet} = (96 \text{ cf}) \times (5 \text{ buildings}) = 480 \text{ cf}$$

$$\text{Townhouse Drip Edges (6 Unit)} = 136 \text{ cf below outlet} = (136 \text{ cf}) \times (4 \text{ buildings}) = 544 \text{ cf}$$

$$\text{Club house drip edge} = 130 \text{ cf below outlet}$$

$$\text{Pond P204} = 2,117 \text{ cf below outlet (Stormtech System)}$$



Pond P205 = 0 cf below outlet

Pond P206 = 4,970 cf below outlet (Stormtech System)

Pond P207 = 6,180 cf below outlet

Pond P210 = 0 cf below outlet

Ponds P212 = 13,738 cf below outlet

Total site recharge provided = 36,653 cf recharge volume > 14,607 cf required

Recharge per Pond

Pond P204

Soil A:

$R_v = 0.60 \text{ in} * 7,721 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 386 \text{ cf recharge}$

Soil C:

$R_v = 0.25 \text{ in} * 43,082 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 898 \text{ cf recharge}$

Total Weighted Average Recharge:

$R_v = (386 \text{ cf}) + (898 \text{ cf}) = 1,284 \text{ cf recharge required}$

Recharge provided (including drip edges) = 2,383 cf > 1,284 cf required

Pond P205:

Soil B:

$R_v = 0.35 \text{ in} * 75,099 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 2,190 \text{ cf recharge}$

Soil C:

$R_v = 0.25 \text{ in} * 9,045 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 188 \text{ cf recharge}$

Soil D:

$R_v = 0.1 \text{ in} * 119 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 1 \text{ cf recharge}$

Total Weighted Average Recharge:

$R_v = (2,190 \text{ cf}) + (188 \text{ cf}) + (1 \text{ cf}) = 2,379 \text{ cf recharge required}$

Recharge provided (including drip edges) = 1,862 cf ≠ 2,379 cf required

(Overall recharge provided on site still greater than overall recharge required)

Pond P206:

Soil A:

$R_v = 0.60 \text{ in} * 763 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 39 \text{ cf recharge}$

Soil C:

$R_v = 0.25 \text{ in} * 28,369 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 591 \text{ cf recharge}$

**Soil D:**

$R_v = 0.1 \text{ in} * 28,006 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 233 \text{ cf recharge}$

Total Weighted Average Recharge:

$R_v = (39 \text{ cf}) + (591 \text{ cf}) + (233 \text{ cf}) = 863 \text{ cf total recharge required}$

Recharge provided (including drip edges) = 4,970 cf > 863 cf required

Pond P207**Soil A:**

$R_v = 0.60 \text{ in} * 30,553 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 1,528 \text{ cf recharge}$

Soil C:

$R_v = 0.25 \text{ in} * 21,545 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 449 \text{ cf recharge}$

Soil D:

$R_v = 0.1 \text{ in} * 18,281 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 152 \text{ cf recharge}$

Total Weighted Average Recharge:

$R_v = (1,528 \text{ cf}) + (449 \text{ cf}) + (152 \text{ cf}) = 2,129 \text{ cf recharge required}$

Recharge provided (including drip edges) = 6,180 cf > 2,129 cf required

Pond P210**Soil B:**

$R_v = 0.35 \text{ in} * 60,870 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 1,775 \text{ cf recharge}$

Soil C:

$R_v = 0.25 \text{ in} * 872 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 18 \text{ cf recharge}$

Soil D:

$R_v = 0.1 \text{ in} * 1,109 \text{ sf} * 1 \text{ ft} / 12 \text{ in} = 9 \text{ cf recharge}$

Total Weighted Average Recharge:

$R_v = (1,775 \text{ cf}) + (18 \text{ cf}) + (9 \text{ cf}) = 1,802 \text{ cf recharge required}$

Recharge provided (including drip edges) = 136 cf ≠ 1,802 cf required

(Overall recharge provided on site still greater than overall recharge required)

Pond P212Soil A:

$$R_v = 0.60 \text{ in} \times 1,222 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = 61 \text{ cf recharge}$$

Soil B:

$$R_v = 0.35 \text{ in} \times 406 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = 12 \text{ cf recharge}$$

Soil C:

$$R_v = 0.25 \text{ in} \times 144,084 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = 3,001 \text{ cf recharge}$$

Soil D:

$$R_v = 0.1 \text{ in} \times 2,881 \text{ sf} \times 1 \text{ ft} / 12 \text{ in} = 24 \text{ cf recharge}$$

Total Weighted Average Recharge:

$$R_v = (61 \text{ cf}) + (12 \text{ cf}) + (2,901 \text{ cf}) + (24 \text{ cf}) = 2,998 \text{ cf recharge required}$$

Recharge provided (including drip edges) = 15,877 cf > 2,998 cf required

Drawdown Within 72 Hours

$$\text{Drip Edge Model A} = 195 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (323 \text{ sf})] = 42.6 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Drip Edge Model B} = 175 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (290 \text{ sf})] = 42.6 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Drip Edge Model C} = 175 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (290 \text{ sf})] = 42.6 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Drip Edge Model D} = 161 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (268 \text{ sf})] = 42.4 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Drip Edge Model E} = 164 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (271 \text{ sf})] = 42.7 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Drip Edge Duplex Model F} = 231 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (383 \text{ sf})] = 42.6 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Drip Edge Duplex Model G} = 151 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (373 \text{ sf})] = 28.6 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Townhouse Drip Edges (6 unit)} = 136 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (665 \text{ sf})] = 14.4 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Townhouse Drip Edges (4 unit - A)} = 82 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (404 \text{ sf})] = 14.3 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Townhouse Drip Edges (4 unit - B)} = 96 \text{ cf} / [(0.17 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (470 \text{ sf})] = 14.4 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Pond P204: } 2,117 \text{ cf} / [(0.66 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (5,670 \text{ sf})] = 6.8 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Pond P206: } 5,064 \text{ cf} / [(3.5 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (6,072 \text{ sf})] = 2.9 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Pond P207: } 6,180 \text{ cf} / [(3.69 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (9,900 \text{ sf})] = 2.0 \text{ hours} < 72 \text{ hours, OK}$$

$$\text{Pond P212: } 13,738 \text{ cf} / [(5.13 \text{ in/hr})(1 \text{ ft}/12 \text{ in}) (9,642 \text{ sf})] = 3.3 \text{ hours} < 72 \text{ hours, OK}$$



Water Quality Volume

Calculated as $V_{wq} = (D_{wq}/12 \text{ inches/foot}) * (A_{imp} * 43,560 \text{ square feet/acre})$, where:

V_{wq} = required water quality volume (in cubic feet)

D_{wq} = water quality depth: one-inch for discharges within a Zone II or Interim Wellhead Protection Area, to or near another critical area, runoff from a LUHPPL, or exfiltration to soils with infiltration rate greater than 2.4 inches/hour or greater; ½ inch for discharges near or to other areas.

A_{imp} = impervious area (in acres)

A_{imp} = Impervious Area of Subcatchments onsite = 584,596 SF

D_{wq} = 1 inch

$V_{wq} = (1 \text{ inch} / 12 \text{ inches} / \text{foot}) * (279,221 \text{ S.F.}) = 23,268 \text{ C.F.}$

$V_{wq} = (\frac{1}{2} \text{ inch} / 12 \text{ inches} / \text{foot}) * (305,375 \text{ S.F.}) = 12,726 \text{ C.F.}$

Total Water Quality Volumes from proposed BMP's = 36,653 cf > 35,994 cf OK

Pretreatment sizing for flow based devices

Calculated as $V_{wq} = (D_{wq}/12 \text{ inches/foot}) * (A_{imp} * 43,560 \text{ square feet/acre})$, where:

V_{wq} = required water quality volume (in cubic feet)

D_{wq} = water quality depth: one-inch for discharges within a Zone II or Interim Wellhead Protection Area, to or near another critical area, runoff from a LUHPPL, or exfiltration to soils with infiltration rate greater than 2.4 inches/hour or greater; ½ inch for discharges near or to other areas.

A_{imp} = impervious area

Pond P204:

Stormtech Infiltration Chambers = $(\frac{1}{2} \text{ inch} / 12 \text{ inches} / \text{foot}) * (50,803 \text{ S.F.}) = 2,116 \text{ C.F.}$

Designed Infiltration Chambers = 2,116 C.F. below outlet

2,117 CF > 2,116 CF OK



Stormtech Isolator Row:

$$Q(\frac{1}{2}) = (752 \text{ csm/in}) (1.17 \text{ AC}) (0.0015625 \text{ mi}^2/\text{AC}) (\frac{1}{2} \text{ in})$$

$$Q(\frac{1}{2}) = 0.69 \text{ cfs}$$

For the SC 740 each chamber is rated for 0.14 cfs:

$$\text{Design calls for 9 SC 740 Isolator Units} = 9 \text{ units} \times 0.14 \text{ cfs} = 1.26 \text{ cfs}$$

$$1.26 \text{ cfs} > 0.69 \text{ cfs OK}$$

$$\text{Volume Provided} = 1.26 \text{ cfs}$$

$$1.26 \text{ cfs} > 0.69 \text{ cfs O.K.}$$

Pond P205:

$$\text{Pocket Wetland \#2} = (\frac{1}{2} \text{ inch} / 12 \text{ inches} / \text{foot}) * (84,263 \text{ S.F.}) = 3,511 \text{ C.F.}$$

$$\text{Micropool and Low / High Marsh Volume} = 3,511 \text{ C.F. (See attached design criteria)}$$

$$3,511 \text{ CF} > 3,511 \text{ CF OK}$$

$$\text{Sediment forebay} = 0.1 * 3,511 \text{ C.F} = 351 \text{ C.F}$$

$$\text{Designed sediment forebays} = 354 \text{ CF}$$

$$354 \text{ CF} > 351 \text{ CF OK}$$

Pond P206:

$$\text{Stormtech Infiltration Chambers} = (1 \text{ inch} / 12 \text{ inches} / \text{foot}) * (57,138 \text{ S.F.}) = 4,762 \text{ C.F.}$$

$$\text{Designed Infiltration Chambers} = 5,064 \text{ C.F. below outlet}$$

$$5,064 \text{ CF} > 4,762 \text{ CF OK}$$

Stormtech Isolator Row:

$$Q(1) = (752 \text{ csm/in}) (1.33 \text{ AC}) (0.0015625 \text{ mi}^2/\text{AC}) (1 \text{ in})$$

$$Q(1) = 1.56 \text{ cfs}$$

For the SC 740 each chamber is rated for 0.14 cfs:

$$\text{Design calls for 16 SC 740 Isolator Units} = 16 \text{ units} \times 0.14 \text{ cfs} = 2.24 \text{ cfs}$$

$$2.24 \text{ cfs} > 1.56 \text{ cfs OK}$$

$$\text{Volume Provided} = 2.24 \text{ cfs}$$

$$2.24 \text{ cfs} > 1.56 \text{ cfs O.K.}$$

**Pond P207:**

Infiltration pond = (1 inch / 12 inches / foot) * (70,379 S.F.) = 5,865 C.F.

Designed Infiltration Pond = 6,180 C.F. below outlet

6,180 CF > 5,869 CF OK

Sediment forebay = 0.1 * 5,869 C.F = 587 C.F

Designed sediment forebays = 1,320 CF

1,320 CF > 587 CF OK

Pond P210:

Pocket Wetland #1 = (½ inch / 12 inches / foot) * (62,851 S.F.) = 2,619 C.F.

Micropool and Low / High Marsh Volume = 2619 C.F. (See attached design criteria)

2,619 CF ≥ 2,619 CF OK

Sediment forebay = 0.1 * 2,619 C.F = 262 C.F

Designed sediment forebays = 267 CF

267 CF > 262 CF OK

Pond P212:

Infiltration pond = (1 inch / 12 inches / foot) * (148,593 S.F.) = 12,383 C.F.

Designed Infiltration Pond = 13,738 C.F. below outlet

13,738 CF > 12,383 CF OK

Sediment forebay = 0.1 * 12,383 C.F = 1,238 C.F

Designed sediment forebays = 3,215 CF

3,215 CF > 1,238 CF OK



ACF Rain Guardian Turret:

Flow rate associated with ACF Rain Guardian Turret:

$Q = (qu) \cdot (A) \cdot (WQV)$, where:

Q = Peak flow rate associated with first 1-inch of runoff

qu = the unit peak discharge, in csm/in (774 csm/in for T_c associated with 6 minutes)

A = impervious surface drainage area (in square miles) – 15,827 sf = 0.0005678 square miles

WQV = water quality volume in watershed inches (1 inch or ½ inch)

$$Q = (774 \text{ csm/in}) \cdot (0.000568 \text{ square miles}) \cdot (1 \text{ inch})$$

$$Q = 0.44 \text{ CFS}$$

Required Capacity = 0.44 CFS

ACF Turret Total Capacity = 3.45 CFS (See Appendix D for calculation)

3.45 CFS > 0.44 CFS, OK

Standard 4: Stormwater management system to remove 80% of the average annual load of Total Suspended Solids (TSS)

The stormwater management system is designed to remove >80% annual total suspended solids (TSS) from the proposed roadway, driveways, and sidewalks.

The stormwater management system is designed to remove 80% of the average annual total suspended solids (TSS) from the proposed development.

TSS Removal Calculation

Pretreatment Train #1 to Pond P204

- Deep Sump Hooded Catch Basin:

$$100\% \cdot 25\% = 25\%$$

$$100\% - 25\% = 75\%$$



- Stormtech Isolator Row:

$$75\% * 25\% = 19\%$$

$$75\% - 19\% = 56\%$$

$$\text{Pretreatment TSS Removal} = 25\% + 19\% = 44\%$$

Treatment Train #1 to Pond P204

- Stormtech Isolator Row:

$$100\% * 25\% = 25\%$$

$$100\% - 25\% = 75\%$$

- Stormtech Infiltration Chambers

$$75\% * 80\% = 60\%$$

$$75\% - 60\% = 15\%$$

$$\text{TSS Removal of the proposed drainage} = 25\% + 60\% = 85\%$$

$$\text{Site impervious percentage} = 6\%$$

Pretreatment Train #2 to Pond P205

- Deep Sump Hooded Catch Basins:

$$100\% * 25\% = 25\%$$

$$100\% - 25\% = 75\%$$

- Sediment Forebay:

$$75\% * 25\% = 19\%$$

$$75\% - 19\% = 56\%$$

$$\text{Pretreatment TSS Removal} = 25\% + 19\% = 44\%$$

Treatment Train #2 to Pond P205

- Sediment Forebay:

$$100\% * 25\% = 25\%$$

$$100\% - 25\% = 75\%$$



- Pocket Wetland

$$75\% * 80\% = \mathbf{60\%}$$

$$75\% - 60\% = 15\%$$

TSS Removal of the proposed drainage = 25% + 60% = 85%

Site impervious percentage = 18%

Pretreatment Train #3 to Pond P206

- Deep Sump Hooded Catch Basin:

$$100\% * 25\% = \mathbf{25\%}$$

$$100\% - 25\% = 75\%$$

- Stormtech Isolator Row:

$$75\% * 25\% = \mathbf{19\%}$$

$$75\% - 19\% = 56\%$$

Pretreatment TSS Removal = 25% + 19% = 44%

Treatment Train #3 to Pond P206

- Stormtech Isolator Row:

$$100\% * 25\% = \mathbf{25\%}$$

$$100\% - 25\% = 75\%$$

- Stormtech Infiltration Chambers

$$75\% * 80\% = \mathbf{60\%}$$

$$75\% - 60\% = 15\%$$

TSS Removal of the proposed drainage = 25% + 60% = 85%

Site impervious percentage = 8%

Pretreatment Train #4 to Pond P207

- Deep Sump Hooded Catch Basins:

$$100\% * 25\% = \mathbf{25\%}$$

$$100\% - 25\% = 75\%$$

- Sediment Forebay / CDS Water Quality Unit (*Calculation based on minimum treatment from Deep Sump Hooded Catch Basin only. CDS Water Quality unit will see a higher TSS treatment removal rate.*):

$$75\% * 25\% = \mathbf{19\%}$$

$$75\% - 19\% = 56\%$$

$$\mathbf{\text{Pretreatment TSS Removal} = 25\% + 19\% = 44\%}$$

Treatment Train #4 to Pond P207

- Sediment Forebay / CDS Water Quality Unit (*Calculations based on minimum treatment from Deep Sump Hooded Catch Basin only. CDS Water Quality Unit will see a higher TSS treatment removal rate.*):

$$100\% * 25\% = \mathbf{25\%}$$

$$100\% - 25\% = 75\%$$

- Infiltration Pond:

$$75\% * 80\% = \mathbf{60\%}$$

$$75\% - 60\% = 15\%$$

$$\mathbf{\text{TSS Removal of the proposed drainage} = 25\% + 60\% = 85\%}$$

$$\mathbf{\text{Site impervious percentage} = 18\%}$$

Pretreatment Train #5 to Pond P210

- Deep Sump Hooded Catch Basins:

$$100\% * 25\% = \mathbf{25\%}$$

$$100\% - 25\% = 75\%$$

- Sediment Forebay:



$$75\% * 25\% = 19\%$$

$$75\% - 19\% = 56\%$$

$$\text{Pretreatment TSS Removal} = 25\% + 19\% = 44\%$$

Treatment Train #5 to Pond P210

- Sediment Forebay:

$$100\% * 25\% = 25\%$$

$$100\% - 25\% = 75\%$$

- Pocket Wetland

$$75\% * 80\% = 60\%$$

$$75\% - 60\% = 15\%$$

$$\text{TSS Removal of the proposed drainage} = 25\% + 60\% = 85\%$$

$$\text{Site impervious percentage} = 15\%$$

Pretreatment Train #6 to Pond P212

- Deep Sump Hooded Catch Basins or ACF Rain Guardian (*Calculation based on minimum treatment from Deep Sump Hooded Catch Basin. ACF Rain Guardian will see a higher TSS treatment removal rate.*):

$$100\% * 25\% = 25\%$$

$$100\% - 25\% = 75\%$$

- Sediment Forebay:

$$75\% * 25\% = 19\%$$

$$75\% - 19\% = 56\%$$

$$\text{Pretreatment TSS Removal} = 25\% + 19\% = 44\%$$

Treatment Train #6 to Pond P212

- Sediment Forebay:



$$100\% * 25\% = \mathbf{25\%}$$

$$100\% - 25\% = 75\%$$

- Infiltration Pond:

$$75\% * 80\% = \mathbf{60\%}$$

$$75\% - 60\% = 15\%$$

TSS Removal of the proposed drainage = 25% + 60% = 85%

Site impervious percentage = 29%

Treatment Train #7 to Existing Summer Street CB

- Deep Sump Hooded Catch Basins:

$$100\% * 25\% = \mathbf{25\%}$$

$$100\% - 25\% = 75\%$$

TSS Removal of the proposed drainage = 25%

Site impervious percentage = 2%

Treatment Train #8 flow from Multifamily building drive under

TSS Removal of the proposed drainage = 0%

Site impervious percentage = 5%

Total weighted TSS Removal rate = (6%) * (85%) + (18%) * (85%) + (8%) * (85%) + (18%) * (85%) + (15%) * (85%) + (29%) * (85%) + (2%) * (25%) + (5%) * (0%)

= 5% + 14% + 7% + 15% + 13% + 25% + 1% + 0% = 80% = 80% OK



Standard 5: Land uses with higher potential pollutant loads.

The development is not considered a land use that generally produces higher potential pollutant loads.

Standard 6: Stormwater discharges to critical areas

There are three potential vernal pools located on the property. Potential vernal pool #1 is located on the eastern side of the property just north of Driveway-B and adjacent to the railroad. Potential vernal pool #2 is isolated and located just to the north of PVP#1, also adjacent to the railroad. Potential vernal pool #3 is located on the southern side of the parcel to the south of both wetland crossings. A pocket wetland is proposed to outlet more than 180' upslope from potential vernal pool #1. All treatment trains that discharge to critical areas have been designed to meet the pretreatment requirement of 44% TSS removal prior to entering the treatment system such as an Infiltration Pond or Pocket Wetland.

Standard 7: Redevelopment projects

The project is not considered a redevelopment project.

Standard 8: Control construction-related impacts

The project will install erosion and sediment controls prior to any earthwork activity. Erosion control barriers will be placed down slope from the proposed construction to prevent erosion and sedimentation into the surrounding areas. The barriers will be maintained and inspected periodically during construction; sediment buildup will be removed, and any damaged barrier will be replaced as needed. See site plan and SWPPP.

Standard 9: Long-term operation and maintenance plan

See Appendix A for the operation and maintenance requirements of the stormwater management system.

Standard 10: No illicit discharges

An illicit discharge compliance statement has been provided by the property owner under separate cover.



Appendix A: Test Pit Information and Falling Head Permeability Test Results



Appendix B: Mounding Analysis



Appendix C: Operation and Maintenance Plan



Appendix D: Pre and Post Drainage Maps



Appendix E: HydroCAD, Stage Storage, and Pocket Wetland Calculations

MASTER LOG - TEST PIT INFORMATION

55 SUMMER ST, WALPOLE MA



Test Pits Performed on 12/4/2019, 12/5/2019, 12/6/2019, 01/09/2020, 10/20/2020, 10/21/2020

Test Pits Performed By Kasey Ferreira, E.I.T.

Test Pits Witnessed By Chris Johnson, Town of Walpole

TP-1 (Drainage)			
0"-13"	A _p	Loam/Organics	
13"-23"	B _w	Sandy Loam	
23"-120"	C	Loamy Sand	
Mottles at 24"			
HSG C			

TP-2 (Drainage)			
0"-10"	A _p	Loam/Organics	
10"-118"	C	Loamy Sand	
Weeping at 71", Mottles at 33"			
HSG B			

TP-3 (Drainage)			
0"-12"	A _p	Loam	
12"-20"	B _w	Sandy Loam	
20"-98"	C	Loamy Sand	
Standing at 94", Mottles at 31"			
HSG C			



TP-4 (Drainage)			
0"-11"	A _p	Loam/Organics	
11"-96"	C	Loamy Sand	
Standing at 97", Mottles at 49"			
HSG A			

TP-5 (Drainage)			
0"-12"	A _p	Loam/Organics	
12"-109"	C	Loamy Sand	
Standing at 85", Mottles at 41"			
HSG A			

TP-6 (Drainage)			
0"-11"	A _p	Loam/Organics	
11"-20"	B _w	Sandy Loam	
20"-99"	C	Loamy Sand	
Standing at 60", Mottles at 26"			
HSG C			

TP-7 (Drainage)			
0"-7"	A _p	Loam	
7"-122"	C	Loamy Sand	
Weeping at 103", Mottles at 40"			
HSG B			



TP-8 (Drainage)			
0"-7"	A _p	Loam	
7"-18"	B _w	Sandy Loam	
18"-139"	C	Loamy Sand	
Standing at 130", Weeping at 125", Mottles at 44"			
HSG B			

TP-9 (Drainage)			
0"-40"	Fill		
40"-117"	C	Medium Sand	
Weeping at 34", Mottles at 40"			
HSG A			

TP-10 (Drainage)			
0"-9"	A _p	Loam	
9"-23"	B _w	Sandy Loam	
23"-96"	C	Coarse Sand	
Standing at 96", Mottles at 34"			
HSG C			

TP-11 (Drainage)			
0"-8"	A _p	Loam	
8"-17"	B _w	Loamy Sand	
17"-122"	C	Medium Sand	
Standing at 115", Weeping at 46", Mottles at 30"			
HSG B			



TP-12 (Drainage)			
0"-9"	A _p	Loam	
9"-18"	B _w	Loamy Sand	
18"-120"	C	Medium Sand	
Weeping at 24", Mottles at 29"			
HSG B			

TP-13 (Drainage)			
0"-13"	A _p	Loam	
13"-28"	B _w	Sandy Loam	
28"-135"	C	Loamy Sand	
Weeping at 115", Mottles at 43"			
HSG B			

TP-14 (Drainage)			
0"-7"	A _p	Loam	
7"-13"	B _w	Loamy Fine Sand	
13"-95"	C ₁	Coarse Sand	
95"-120"	C ₂	Gravel	
Standing at 104", Mottles at 95"			
HSG A			



TP-15 (Drainage)			
0"-5"	A _p	Loam	
5"-22"	B _w	Sandy Loam	
22"-120"	C	Loamy Sand	
Weeping at 30"			
HSG C			

TP-16 (Drainage)			
0"-5"	A _p	Loam	
5"-20"	B _w	Sandy Loam	
20"-120"	C	Loamy Sand	
Standing at 96", Mottles at 36"			
HSG C			

TP-17 (Drainage)			
0"-9"	A _p	Loam/Organics	
9"-108"	C	Loamy Sand	
Weeping at 18"			
HSG A/D (D)			

TP-18 (Drainage)			
0"-8"	A _p	Loam	
8"-17"	B _w	Sandy Loam	
17"-120"	C	Loamy Sand	
Weeping at 29", Mottles at 26"			
HSG C			



TP-19 (Building)			
0"-8"	A _p	Loam	
8"-20"	B _w	Loamy Sand	
20"-120"	C	Sand	
Mottles at 50"			
HSG A			

TP-20 (Building)			
0"-7"	A _p	Loam	
7"-24"	B _w	Sandy Loam	
24"-103"	C	Loamy Sand	
Mottles at 48"			
HSG B			

TP-21 (Exploratory)			
0"-9"	A _p	Loam	
9"-24"	B _w	Loamy Sand	
24"-102"	C	Sand	
Mottles at 43"			
HSG A			



TP-22 (Exploratory)			
0"-6"	A _p	Loam	
6"-23"	B _w	Sandy Loam	
23"-66"	C	Loamy Sand	
Mottles at 32"			
HSG C			

TP-23 (Building)			
0"-12"	A _p	Loam	
12"-24"	B _w	Loamy Sand	
24"-118"	C	Sand	
Standing at 96", Mottles at 36"			
HSG B			

TP-24 (Building)			
0"-11"	A _p	Loam	
11"-24"	B _w	Loamy Sand	
24"-102"	C	Sand	
Weeping at 100", Mottles at 39", Refusal at 102"			
HSG B			



TP-25 (Building)			
0"-10"	A _p	Loam	
10"-20"	B _w	Loamy Sand	
20"-69"	C	Sand	
Mottles at 41", Refusal at 69"			
HSG A			

TP-25A (Exploratory)			
0"-8"	A _p	Loam	
8"-15"	B _w	Sandy Loam	
15"-108"	C	Loamy Sand	
Mottles at 32"			
HSG C			

TP-26 (Building)			
0"-10"	A _p	Loam	
10"-18"	B _w	Sandy Loam	
18"-75"	C	Loamy Sand	
Mottles at 49", Refusal at 75"			
HSG B			



TP-27 (Building)			
0"-8"	A _p	Loam	
8"-25"	B _w	Sandy Loam	
25"-48"	C ₁	Loamy Sand	
48"-110	C ₂	Loamy Sand	
Standing at 100", Weeping at 54", Mottles at 30"			
HSG C			

TP-28 (Building)			
0"-6"	A _p	Loam	
6"-24"	B _w	Sandy Loam	
24"-99"	C	Loamy Sand	
Standing at 90", Weeping at 65", Mottles at 32"			
HSG C			

TP-29 (Exploratory)			
0"-13"	A _p	Loam	
13"-18"	B _w	Sandy Loam	
18"-132"	C	Loamy Sand	
Mottles at 43"			
HSG B			



TP-30 (Exploratory)			
0"-12"	A _p	Loam/Organics	
12"-30"	B _w	Loam	
30"-128"	C	Loamy Sand	
Weeping at 102", Mottles at 36"			
HSG C			

TP-31 (Exploratory)			
0"-32"	Fill		
32"-96"	C	Gravelly Loamy sand	
Mottles at 42"			
HSG A			

TP-32 (Drainage)			
0"-14"	A	Sandy Loam	
14"-20"	B	Sandy Loam	
20"-88"	C	Sandy Loam	
Mottles at 30", No Standing			
HSG C			

TP-33 (Drainage)			
0"-12"	A	Sandy Loam	
12"-30"	B	Sandy Loam	
30"-87"	C	Loamy Sand	
Mottles at 30"			
HSG C			



TP-34 (Drainage)			
0"-10"	A	Sandy Loam	
10"-24"	Bw	Sandy Loam	
24"-72"	C	Loamy Sand	
Mottles at 37"			
HSG C			

TP-36 (Drainage)			
0"-10"	A	Sandy Loam	
10"-22"	Bw	Sandy Loam	
22"-62"	C	Sandy Loam	
Mottles at 21"			
HSG C			

TP-37 (Drainage)			
0"-11"	A	Sandy Loam	
11"-28"	Bw	Sandy Loam	
28"-52"	C	Sandy Loam	
Seasonal high at 28"			
HSG C			



TP-38 (Drainage)			
0"-12"	A	Sandy Loam	
12"-28"	B	Sandy Loam	
28"-72"	C	Sand	
Mottles at 42"			
HSG B			

TP-39 (Drainage)			
0"-14"	A	Sandy Loam	
14"-37"	B	Sandy Loam	
37"-66"	C	Loamy Sand	
Mottles at 36"			
HSG C			

TP-40 (Drainage)			
0"-14"	A	Sandy Loam	
14"-30"	Bw	Sandy Loam	
30"-59"	C1	Sand	
59"-98"	C2	Loamy Sand	
Seasonal high at 28"			
HSG C			



TP-40A (Drainage)			
0"-14"	A	Sandy Loam	
14"-23"	Bw	Sandy Loam	
23"-80"	C	Sand	
Seasonal high at 40"			
HSG C			

TP-41 (Drainage)			
0"-9"	A	Sandy Loam	
9"-20"	B	Sandy Loam	
20"-88"	C	Sand	
Seasonal high at 45"			
HSG B			

TP-42 (Drainage)			
0"-10"	A	Sandy Loam	
10"-28"	Bw	Sandy Loam	
28"-86"	C	Sand	
Seasonal high at 48", presence of color change			
HSG B			



MASTER LOG - TEST PIT INFORMATION
55 Summer Street, Walpole MA
October 2020

TP-43 (Drainage)			
0"-10"	A	Sandy Loam	
10"-26"	Bw	Sandy Loam	
26"-64"	C1	Sandy Loam	
64"-100"	C2	Loamy Sand	
Mottles at 26"			
HSG C			

TP-43A (Drainage)			
0"-10"	A	Sandy Loam	
10"-19"	Bw	Sandy Loam	
19"-89"	C	Sandy Loam	
Mottles at 16"			
HSG B/D (B)			

TP-44 (Drainage)			
0"-10"	A	Sandy Loam	
10"-35"	Bw	Sandy Loam	
35"-52"	C1	Sandy Loam	
52"-76"	C2	Loamy Sand	
Seasonal high at 35"			
HSG C			



TP-45 (Drainage)			
0"-12"	A	Sandy Loam	
12"-27"	Bw	Sandy Loam	
27"-56"	C1	Sandy Loam	
56"-91"	C2	Loamy Sand	
TBD			

TP-46 (Drainage)			
0"-12"	A	Sandy Loam	
12"-27"	Bw	Sandy Loam	
27"-52"	C1	Sandy Loam	
52"-100"	C2	Loamy Sand	
Seasonal high at 18"			
HSG B/D (B)			

TP-47 (Drainage)			
0"-12"	A	Sandy Loam	
12"-34"	Bw	Sandy Loam	
34"-48"	C1	Sandy Loam	
48"-102"	C2	Loamy Sand	
Seasonal high at 30"			
HSG C			



MASTER LOG - TEST PIT INFORMATION

55 Summer Street, Walpole MA
October 2020

TP-48 (Drainage)			
0"-12"	A	Sandy Loam	
12"-29"	Bw	Sandy Loam	
29"-80"	C	Loamy Sand	
Seasonal high at 36"			
HSG C			

TP-49 (Drainage)			
0"-10"	A	Sandy Loam	
10"-24"	Bw	Sandy Loam	
24"-60"	C	Loamy Sand	
Refusal at 60". No seasonal high present.			
HSG B			

TP-50 (Drainage)			
0"-12"	A	Sandy Loam	
12"-25"	Bw	Sandy Loam	
25"-67"	C	Loamy Sand	
No seasonal high.			
HSG B			



TP-51 (Drainage)			
0"-12"	A	Sandy Loam	
12"-34"	B	Sandy Loam	
34"-65"	C	Loamy Sand	
Seasonal high at 21"			
HSG B/D			

TP-52 (Drainage)			
0"-10"	A	Sandy Loam	
10"-28"	Bw	Sandy Loam	
28"-72"	C	Loamy Sand	
Seasonal high at 53"			
HSG B			

TP-53 (Drainage)			
0"-10"	A	Sandy Loam	
10"-32"	B	Sandy Loam	
32"-78"	C	Sandy Loam	
Seasonal high at 32"			
HSG C			



MASTER LOG - TEST PIT INFORMATION

55 Summer Street, Walpole MA
October 2020

TP-2A (Drainage)			
0"-14"	A	Sandy Loam	
14"-28"	Bw	Sandy Loam	
28"-72"	C	Sandy Loam	
Mottles at 25"			
HSG C			

HSG-1 (Drainage)			
0"-10"	A	Sandy Loam	
10"-28"	Bw	Sandy Loam	
28"-32"	C	Loamy Sand	
Refusal at 32". No seasonal high.			
HSG C			

HSG-2 (Drainage)			
0"-10"	A	Sandy Loam	
10"-30"	Bw	Sandy Loam	
30"-42"	C	Loamy Sand	
Seasonal high at 32"			
HSG C			



HSG-3 (Drainage)			
0"-10"	A	Sandy Loam	
10"-22"	Bw	Sandy Loam	
22"-41"	C	Sandy Loam	
Seasonal high at 34"			
HSG C			

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 1

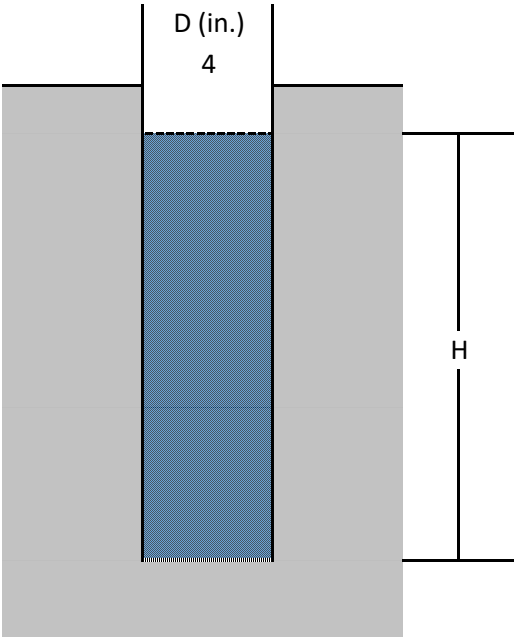
Test Date: 28-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 8" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	600	1.04	600	0.043	0.3
22	1320	1.05	720	0.044	0.3
21	2340	1.05	1020	0.047	0.2
20	3360	1.05	1020	0.049	0.2
19	4440	1.05	1080	0.051	0.2
18	5460	1.06	1020	0.054	0.2
Average			0.22 in/hr		
Safety Factor			2		
Design K			0.11 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 2A

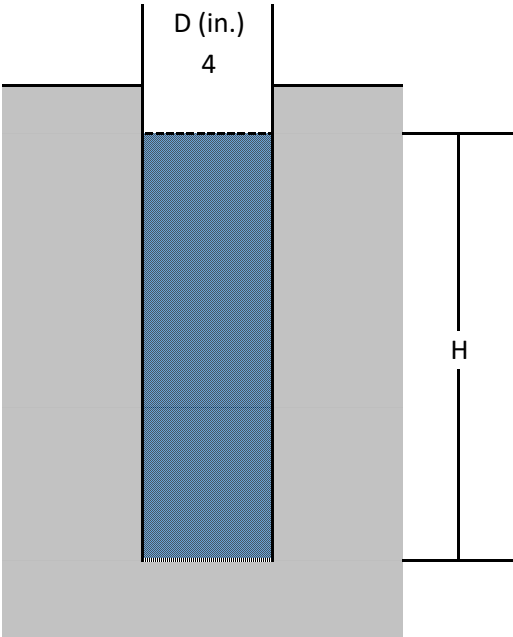
Test Date: 28-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 8" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	300	1.04	300	0.043	0.6
22	660	1.05	360	0.044	0.5
21	1140	1.05	480	0.047	0.4
20	1740	1.05	600	0.049	0.3
19	2340	1.05	600	0.051	0.4
18	3060	1.06	720	0.054	0.3
Average			0.41 in/hr		
Safety Factor			2		
Design K			0.21 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 32

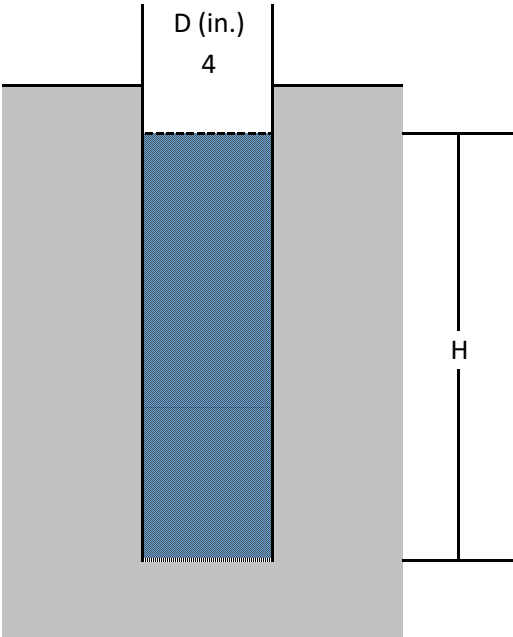
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 32" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	90	1.04	90	0.043	1.9
22	180	1.05	90	0.044	2.0
21	285	1.05	105	0.047	1.8
20	390	1.05	105	0.049	1.9
19	570	1.05	180	0.051	1.2
18	690	1.06	120	0.054	1.9
Average			1.79 in/hr		
Safety Factor			2		
Design K			0.89 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 33

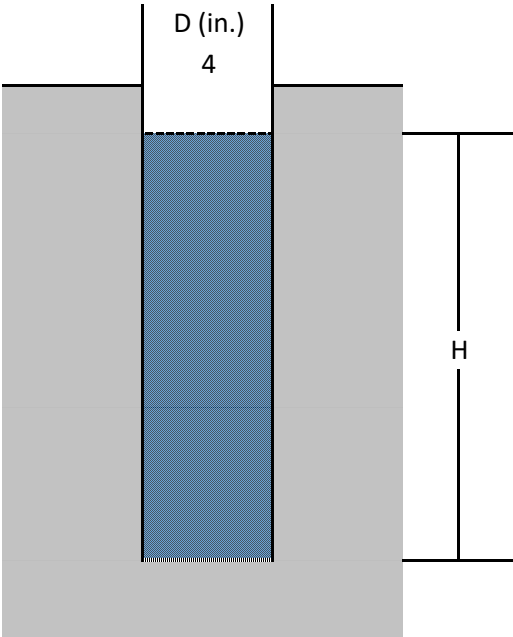
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E./Kasey Ferreira

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 37" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	600	1.04	600	0.043	0.3
22	1740	1.05	1140	0.044	0.2
21	2820	1.05	1080	0.047	0.2
20	4140	1.05	1320	0.049	0.2
19	5580	1.05	1440	0.051	0.1
18	7140	1.06	1560	0.054	0.1
Average			0.18 in/hr		
Safety Factor			2		
Design K			0.09 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 34

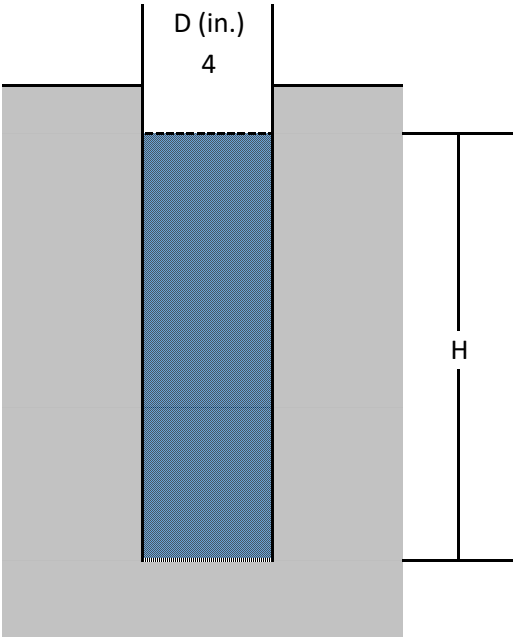
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 32" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	300	1.04	300	0.043	0.6
22	600	1.05	300	0.044	0.6
21	900	1.05	300	0.047	0.6
20	1260	1.05	360	0.049	0.6
19	1620	1.05	360	0.051	0.6
18	1980	1.06	360	0.054	0.6
Average			0.60 in/hr		
Safety Factor			2		
Design K			0.30 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 16

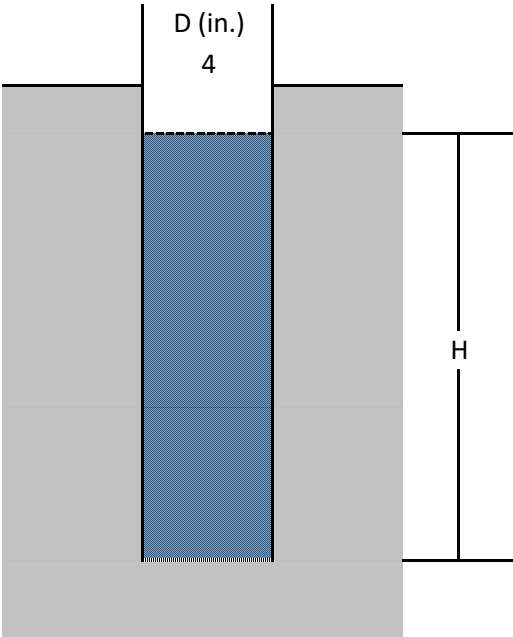
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 32" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	300	1.04	300	0.043	0.6
22	660	1.05	360	0.044	0.5
21	1140	1.05	480	0.047	0.4
20	1680	1.05	540	0.049	0.4
19	2160	1.05	480	0.051	0.4
18	2700	1.06	540	0.054	0.4
Average			0.45 in/hr		
Safety Factor			2		
Design K			0.23 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 38

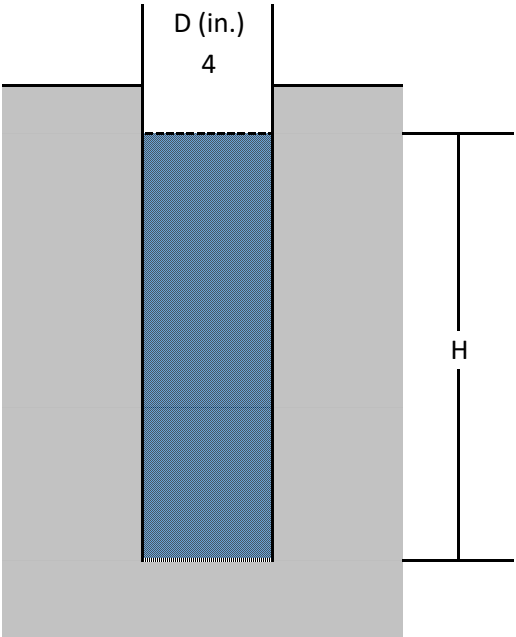
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 38" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
22	18	1.09	18	0.087	19.9
20	36	1.10	18	0.095	21.8
18	56	1.11	20	0.105	21.7
16	81	1.13	25	0.118	19.4
14	107	1.14	26	0.134	21.1
12	137	1.17	30	0.154	21.1
Average			20.8 in/hr		
Safety Factor			2		
Design K			10.41 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 40

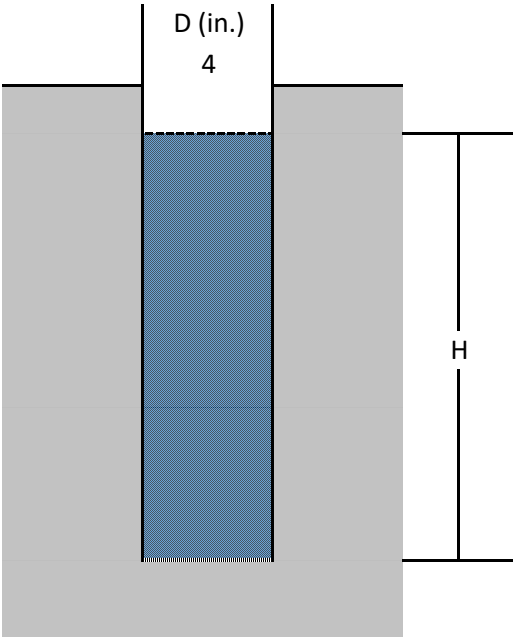
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 32" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
22	33	1.09	33	0.087	10.8
20	75	1.10	42	0.095	9.3
18	118	1.11	43	0.105	10.1
16	166	1.13	48	0.118	10.1
14	219	1.14	53	0.134	10.4
12	277	1.17	58	0.154	10.9
Average			10.3 in/hr		
Safety Factor			2		
Design K			5.13 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 40A

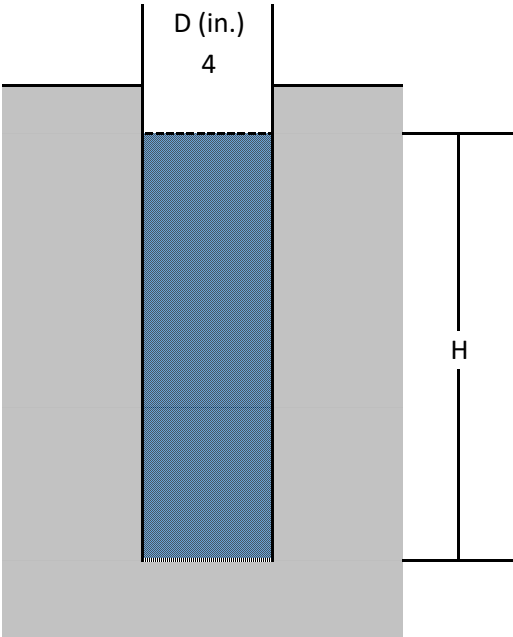
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 42" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
22	34	1.09	34	0.087	10.5
20	60	1.10	26	0.095	15.1
18	93	1.11	33	0.105	13.1
16	129	1.13	36	0.118	13.4
14	171	1.14	42	0.134	13.1
12	217	1.17	46	0.154	13.8
Average			13.2 in/hr		
Safety Factor			2		
Design K			6.58 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 41

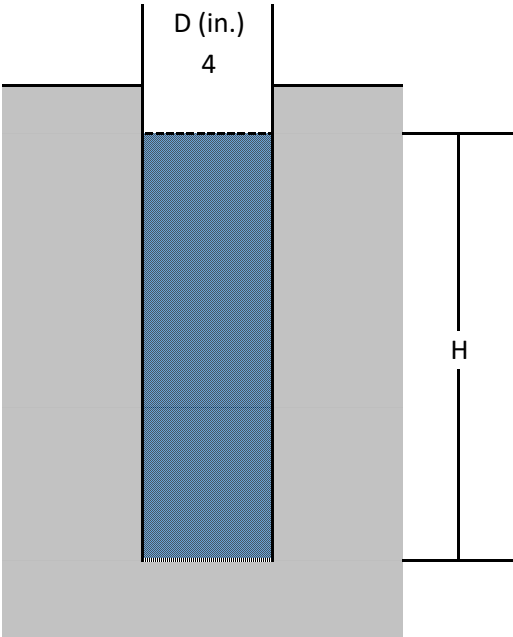
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 42" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
22	15	1.09	15	0.087	23.8
20	37	1.10	22	0.095	17.8
18	63	1.11	26	0.105	16.7
16	102	1.13	39	0.118	12.4
14	145	1.14	43	0.134	12.8
12	185	1.17	40	0.154	15.8
Average			16.6 in/hr		
Safety Factor			2		
Design K			8.28 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 42 (in C1)

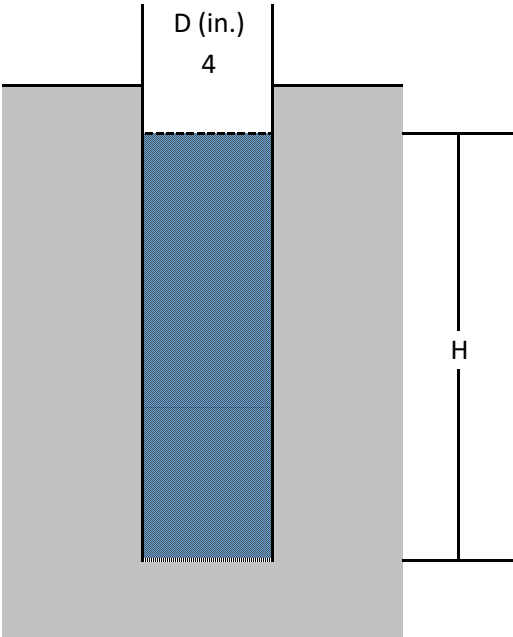
Test Date: 20-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 38" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
22	56	1.09	56	0.087	6.4
20	114	1.10	58	0.095	6.8
18	175	1.11	61	0.105	7.1
16	251	1.13	76	0.118	6.4
14	352	1.14	101	0.134	5.4
12	440	1.17	88	0.154	7.2
Average			6.5 in/hr		
Safety Factor			2		
Design K			3.27 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 42 (in C2) (remove C1)

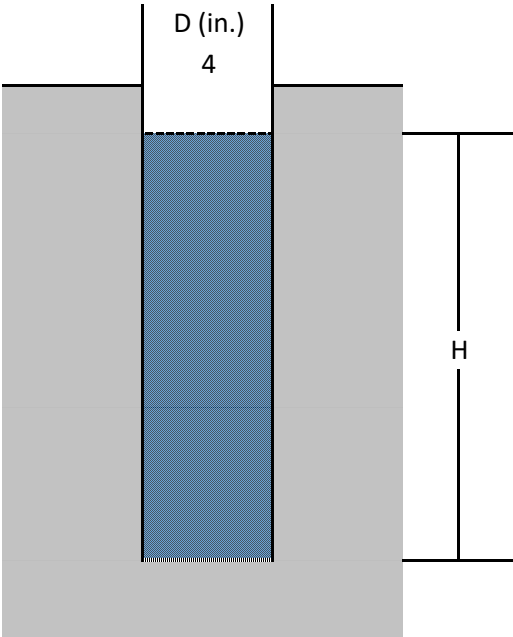
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 52" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3
Lambe and Whitman,
Soil Mechanics,1969
Falling Head

4" Sch. 40 PVC Test Pipe

H (inches)	T (seconds)	H ₁ /H ₂ (inches)	t ₂ -t ₁ (seconds)	ln(H ₁ /H ₂)	k (in/hr)
24	0	n/a	n/a		
22	20	1.09	20	0.087	17.9
20	38	1.10	18	0.095	21.8
18	61	1.11	23	0.105	18.8
16	88	1.13	27	0.118	17.9
14	110	1.14	22	0.134	24.9
12	133	1.17	23	0.154	27.5
Average			21.5 in/hr		
Safety Factor			2		
Design K			10.74 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 43 (in C2) (remove C1)

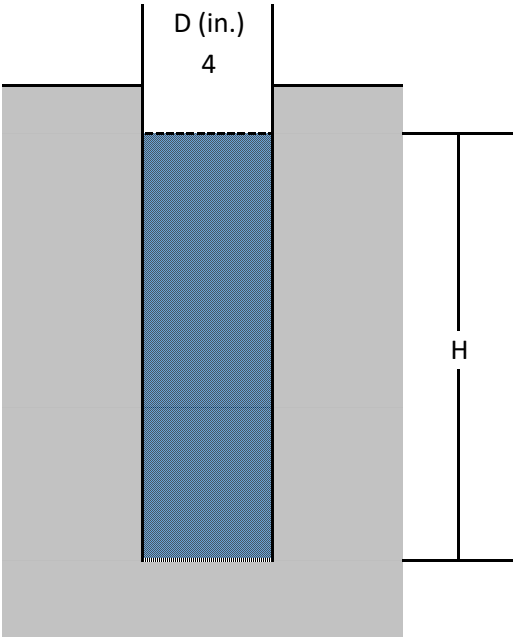
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 74" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	75	1.04	75	0.043	2.3
22	164	1.05	89	0.044	2.1
21	390	1.05	226	0.047	0.8
20	600	1.05	210	0.049	1.0
19	870	1.05	270	0.051	0.8
18	1110	1.06	240	0.054	0.9
Average			1.3 in/hr		
Safety Factor			2		
Design K			0.66 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 44 (in C2) (remove C1)

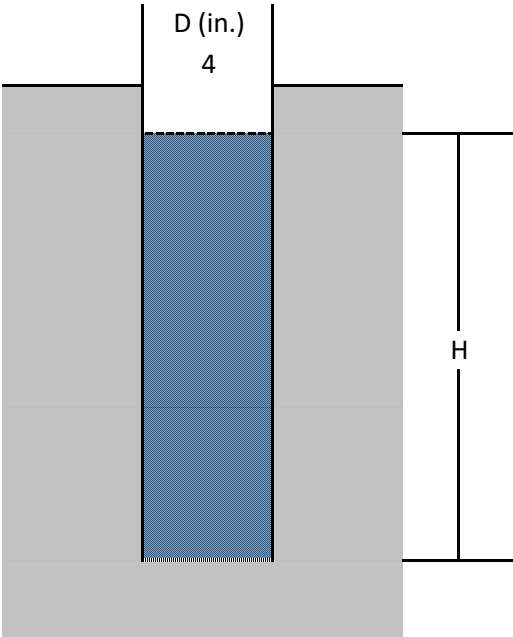
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 56" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
22	23	1.09	23	0.087	15.6
20	48	1.10	25	0.095	15.7
18	75	1.11	27	0.105	16.0
16	98	1.13	23	0.118	21.1
14	120	1.14	22	0.134	24.9
12	165	1.17	45	0.154	14.1
Average			17.9 in/hr		
Safety Factor			2		
Design K			8.95 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 45 (in C2) (remove C1)

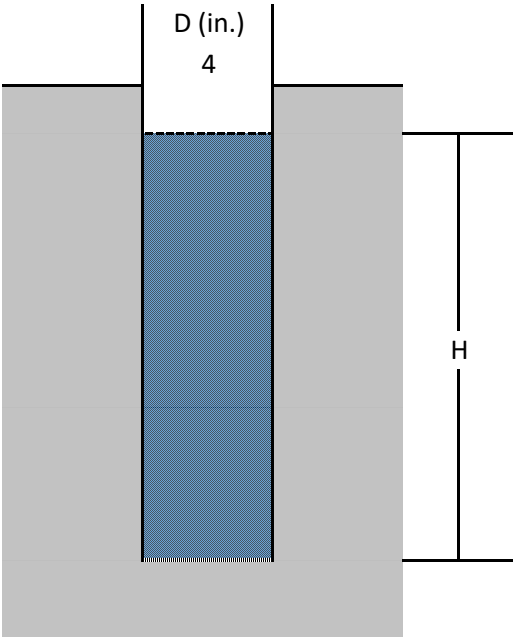
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 62" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
20	0	n/a	n/a		
19	390	1.05	390	0.051	0.5
18	690	1.06	300	0.054	0.7
17	1050	1.06	360	0.057	0.7
16	1410	1.06	360	0.061	0.7
15	1770	1.07	360	0.065	0.7
14	2130	1.07	360	0.069	0.8
Average			0.7 in/hr		
Safety Factor			2		
Design K			0.35 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 46 (in C2) (remove C1)

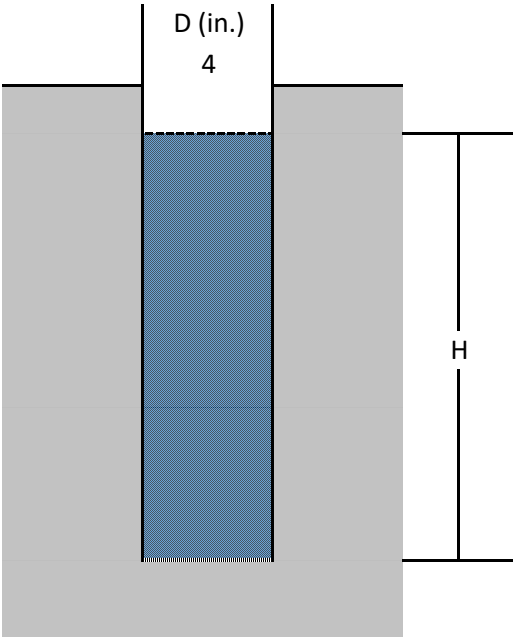
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 64" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	120	1.04	120	0.043	1.5
22	300	1.05	180	0.044	1.0
21	480	1.05	180	0.047	1.1
20	660	1.05	180	0.049	1.1
19	840	1.05	180	0.051	1.2
18	1020	1.06	180	0.054	1.2
Average			1.2 in/hr		
Safety Factor			2		
Design K			0.59 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 47 (in C2) (remove C1)

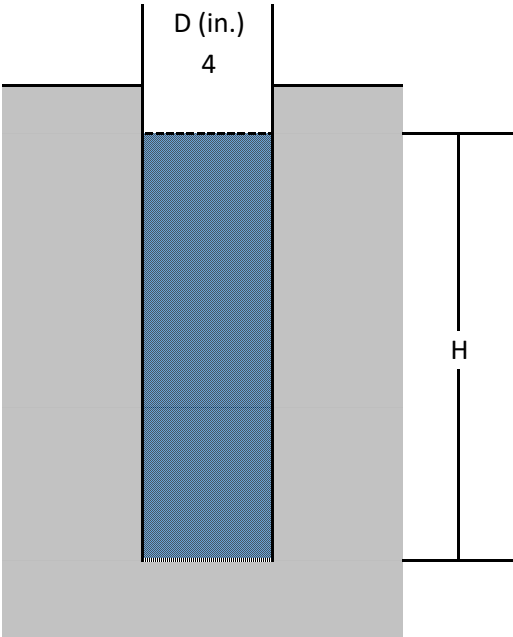
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 72" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	20	1.04	20	0.043	8.7
22	40	1.05	20	0.044	9.1
21	60	1.05	20	0.047	9.6
20	90	1.05	30	0.049	6.7
19	130	1.05	40	0.051	5.3
18	175	1.06	45	0.054	4.9
Average			7.4 in/hr		
Safety Factor			2		
Design K			3.69 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 48

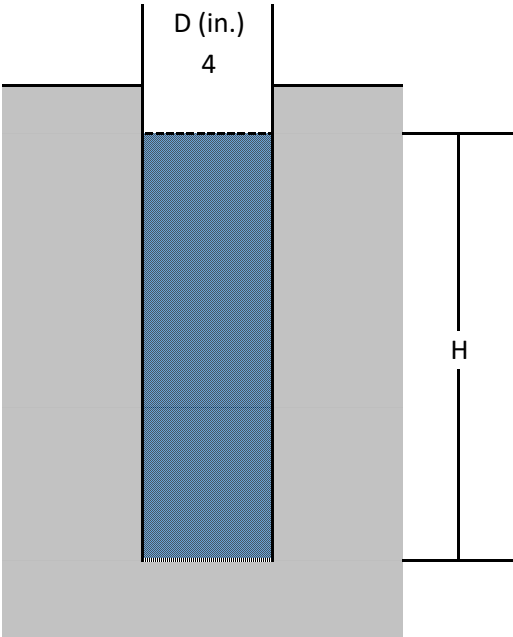
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 48" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	7	1.04	7	0.043	25.0
22	15	1.05	8	0.044	22.8
21	35	1.05	20	0.047	9.6
20	59	1.05	24	0.049	8.4
19	105	1.05	46	0.051	4.6
18	145	1.06	40	0.054	5.6
Average			12.6 in/hr		
Safety Factor			2		
Design K			6.32 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 49

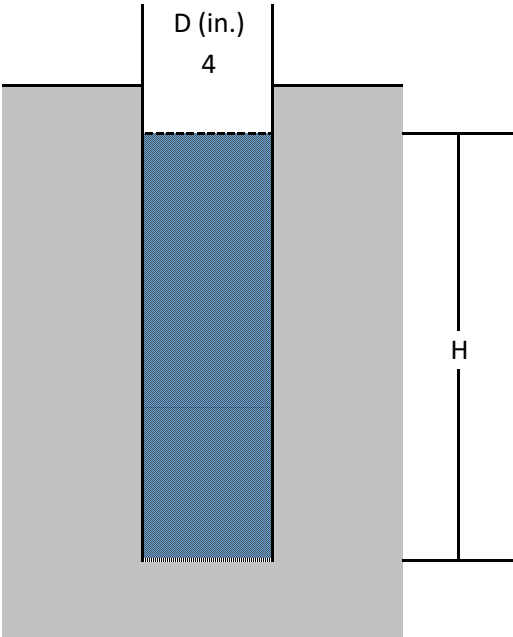
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 32" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	35	1.04	35	0.043	5.0
22	65	1.05	30	0.044	6.1
21	100	1.05	35	0.047	5.5
20	135	1.05	35	0.049	5.7
19	165	1.05	30	0.051	7.0
18	205	1.06	40	0.054	5.6
Average			5.8 in/hr		
Safety Factor			2		
Design K			2.91 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 50

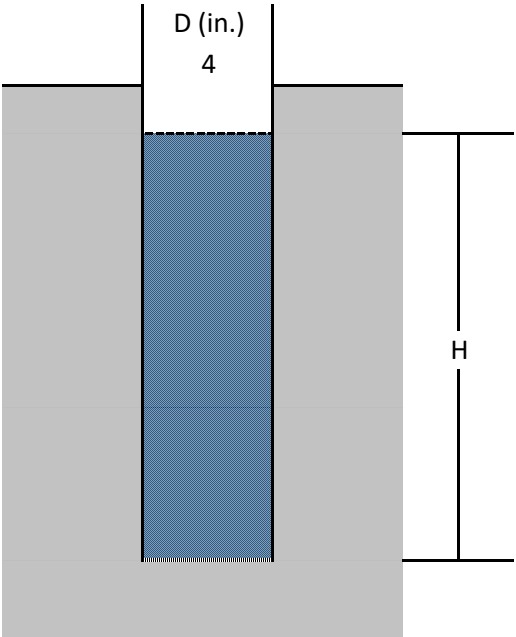
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 42" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	120	1.04	120	0.043	1.5
22	285	1.05	165	0.044	1.1
21	450	1.05	165	0.047	1.2
20	630	1.05	180	0.049	1.1
19	820	1.05	190	0.051	1.1
18	1010	1.06	190	0.054	1.2
Average			1.2 in/hr		
Safety Factor			2		
Design K			0.59 in/hr		

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 51 (in C2) (remove C1)

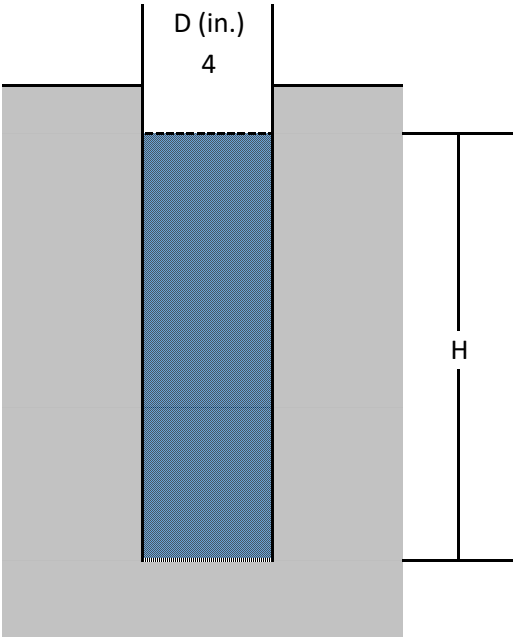
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 58" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	45	1.04	45	0.043	3.9
22	85	1.05	40	0.044	4.6
21	150	1.05	65	0.047	2.9
20	240	1.05	90	0.049	2.2
19	375	1.05	135	0.051	1.6
18	510	1.06	135	0.054	1.6

Average

Safety Factor

Design K

2.8 in/hr

2

1.40 in/hr

PERMEABILITY TESTING RESULTS

Falling Head Permeability Test

Project: Summer Street, Walpole

Location: OTH 52

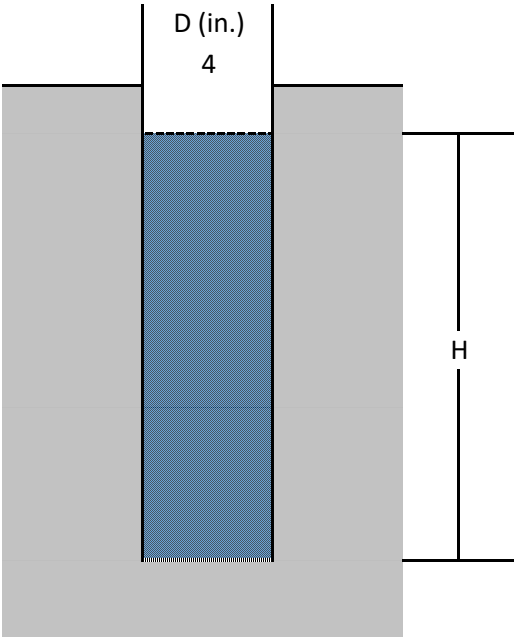
Test Date: 21-Oct-20

By: Daniel J. Merrikin, P.E.

Test apparatus

24" long x 4" diameter schedule 40 pvc pipe

Bottom of pipe set 42" below existing grade



$$k = \frac{\pi D}{11(t_2 - t_1)} \ln(H_1/H_2)$$

Ref: Fig. 19.3

Lambe and Whitman,

Soil Mechanics,1969

Falling Head

4" Sch. 40 PVC Test Pipe

H	T	H ₁ /H ₂	t ₂ -t ₁	ln(H ₁ /H ₂)	k (in/hr)
(inches)	(seconds)	(inches)	(seconds)		
24	0	n/a	n/a		
23	30	1.04	30	0.043	5.8
22	55	1.05	25	0.044	7.3
21	85	1.05	30	0.047	6.4
20	110	1.05	25	0.049	8.0
19	140	1.05	30	0.051	7.0
18	170	1.06	30	0.054	7.4
Average			7.0 in/hr		
Safety Factor			2		
Design K			3.50 in/hr		

Infiltration Pond #1

This spreadsheet will calculate the height of a groundwater mound beneath a stormwater infiltration basin. More information can be found in the U.S. Geological Survey Scientific Investigations Report 2010-5102 "Simulation of groundwater mounding beneath hypothetical stormwater infiltration basins".

The user must specify infiltration rate (R), specific yield (S_y), horizontal hydraulic conductivity (K_h), basin dimensions (x , y), duration of infiltration period (t), and the initial thickness of the saturated zone ($h_i(0)$, height of the water table if the bottom of the aquifer is the datum). For a square basin the half width equals the half length ($x = y$). For a rectangular basin, if the user wants the water-table changes perpendicular to the long side, specify x as the short dimension and y as the long dimension. Conversely, if the user wants the values perpendicular to the short side, specify y as the short dimension, x as the long dimension. All distances are from the center of the basin. Users can change the distances from the center of the basin at which water-table aquifer thickness are calculated.

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Input Values		use consistent units (e.g. feet & days or inches & hours)		Conversion Table	
				inch/hour	feet/day
10.2600	R	Recharge (infiltration) rate (feet/day)		0.67	1.33
0.260	S_y	Specific yield, S_y (dimensionless, between 0 and 1)			
102.60	K	Horizontal hydraulic conductivity, K_h (feet/day)*		2.00	4.00
263.000	x	1/2 length of basin (x direction, in feet)			
30.000	y	1/2 width of basin (y direction, in feet)	hours	days	
0.130	t	duration of infiltration period (days)		36	1.50
35.000	$h_i(0)$	initial thickness of saturated zone (feet)			
37.940	$h(\max)$	maximum thickness of saturated zone (beneath center of basin at end of infiltration period)			
2.940	$\Delta h(\max)$	maximum groundwater mounding (beneath center of basin at end of infiltration period)			

In the report accompanying this spreadsheet (USGS SIR 2010-5102), vertical soil permeability (ft/d) is assumed to be one-tenth horizontal hydraulic conductivity (ft/d).

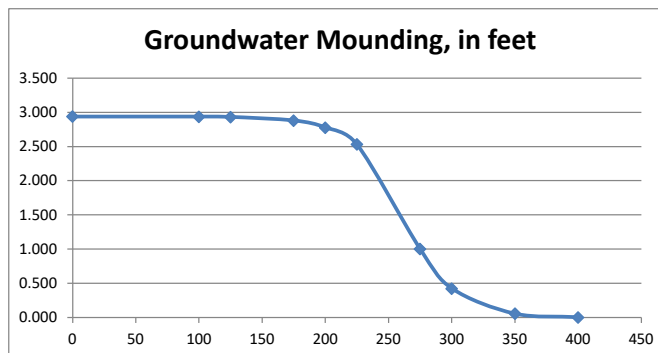
Ground-water Mounding, in feet

Distance from center of basin in x direction, in feet

2.940	0
2.939	100
2.934	125
2.881	175
2.778	200
2.534	225
1.004	275
0.426	300
0.060	350
0.007	400



Re-Calculate Now



Disclaimer

This spreadsheet solving the Hantush (1967) equation for ground-water mounding beneath an infiltration basin is made available to the general public as a convenience for those wishing to replicate values documented in the USGS Scientific Investigations Report 2010-5102 "Groundwater mounding beneath hypothetical stormwater infiltration basins" or to calculate values based on user-specified site conditions. Any changes made to the spreadsheet (other than values identified as user-specified) after transmission from the USGS could have unintended, undesirable consequences. These consequences could include, but may not be limited to: erroneous output, numerical instabilities, and violations of underlying assumptions that are inherent in results presented in the accompanying USGS published report. The USGS assumes no responsibility for the consequences of any changes made to the spreadsheet. If changes are made to the spreadsheet, the user is responsible for documenting the changes and justifying the results and conclusions.

Infiltration Pond #2

This spreadsheet will calculate the height of a groundwater mound beneath a stormwater infiltration basin. More information can be found in the U.S. Geological Survey Scientific Investigations Report 2010-5102 "Simulation of groundwater mounding beneath hypothetical stormwater infiltration basins".

The user must specify infiltration rate (R), specific yield (Sy), horizontal hydraulic conductivity (Kh), basin dimensions (x, y), duration of infiltration period (t), and the initial thickness of the saturated zone (hi(0), height of the water table if the bottom of the aquifer is the datum). For a square basin the half width equals the half length (x = y). For a rectangular basin, if the user wants the water-table changes perpendicular to the long side, specify x as the short dimension and y as the long dimension. Conversely, if the user wants the values perpendicular to the short side, specify y as the short dimension, x as the long dimension. All distances are from the center of the basin. Users can change the distances from the center of the basin at which water-table aquifer thickness are calculated.

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Input Values		use consistent units (e.g. feet & days or inches & hours)		Conversion Table	
				inch/hour	feet/day
7.3800	R	Recharge (infiltration) rate (feet/day)		0.67	1.33
0.260	Sy	Specific yield, Sy (dimensionless, between 0 and 1)			
73.80	K	Horizontal hydraulic conductivity, Kh (feet/day)*		2.00	4.00
95.000	x	1/2 length of basin (x direction, in feet)			
27.000	y	1/2 width of basin (y direction, in feet)	hours	days	
0.085	t	duration of infiltration period (days)		36	1.50
10.000	hi(0)	initial thickness of saturated zone (feet)			

In the report accompanying this spreadsheet (USGS SIR 2010-5102), vertical soil permeability (ft/d) is assumed to be one-tenth horizontal hydraulic conductivity (ft/d).

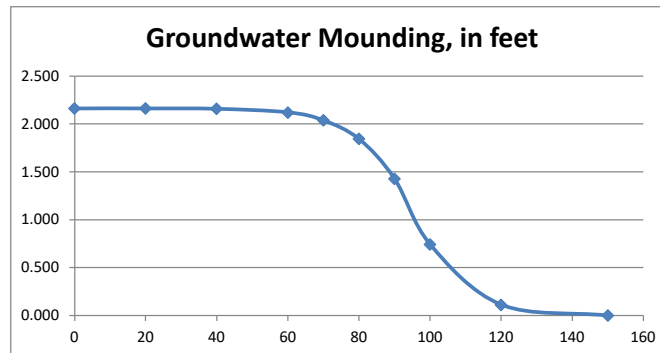
12.164	h(max)	maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.164	Δh(max)	maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet

Distance from center of basin in x direction, in feet	
0	2.164
20	2.164
40	2.161
60	2.121
70	2.040
80	1.846
90	1.431
100	0.744
120	0.115
150	0.003



Re-Calculate Now



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Stormtech Infiltration System (P204)

This spreadsheet will calculate the height of a groundwater mound beneath a stormwater infiltration basin. More information can be found in the U.S. Geological Survey Scientific Investigations Report 2010-5102 "Simulation of groundwater mounding beneath hypothetical stormwater infiltration basins".

The user must specify infiltration rate (R), specific yield (Sy), horizontal hydraulic conductivity (Kh), basin dimensions (x, y), duration of infiltration period (t), and the initial thickness of the saturated zone (hi(0), height of the water table if the bottom of the aquifer is the datum). For a square basin the half width equals the half length (x = y). For a rectangular basin, if the user wants the water-table changes perpendicular to the long side, specify x as the short dimension and y as the long dimension. Conversely, if the user wants the values perpendicular to the short side, specify y as the short dimension, x as the long dimension. All distances are from the center of the basin. Users can change the distances from the center of the basin at which water-table aquifer thickness are calculated.

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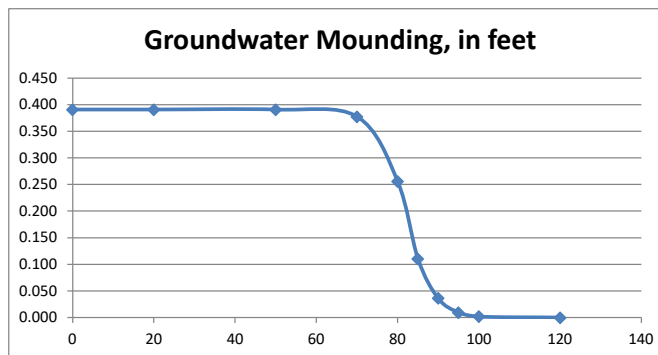
Input Values		use consistent units (e.g. feet & days or inches & hours)		Conversion Table	
				inch/hour	feet/day
1.3200	R	Recharge (infiltration) rate (feet/day)		0.67	1.33
0.260	Sy	Specific yield, Sy (dimensionless, between 0 and 1)			
13.20	K	Horizontal hydraulic conductivity, Kh (feet/day)*		2.00	4.00
82.000	x	1/2 length of basin (x direction, in feet)			
68.000	y	1/2 width of basin (y direction, in feet)	hours	days	
0.077	t	duration of infiltration period (days)		36	1.50
10.000	hi(0)	initial thickness of saturated zone (feet)			
10.391	h(max)	maximum thickness of saturated zone (beneath center of basin at end of infiltration period)			
0.391	Δh(max)	maximum groundwater mounding (beneath center of basin at end of infiltration period)			

Ground-water Mounding, in feet

Distance from center of basin in x direction, in feet	
0	0.391
20	0.391
50	0.391
70	0.378
80	0.256
85	0.110
90	0.036
95	0.010
100	0.002
120	0.000



Re-Calculate Now



Disclaimer

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Stormtech Infiltration System (P206)

This spreadsheet will calculate the height of a groundwater mound beneath a stormwater infiltration basin. More information can be found in the U.S. Geological Survey Scientific Investigations Report 2010-5102 "Simulation of groundwater mounding beneath hypothetical stormwater infiltration basins".

The user must specify infiltration rate (R), specific yield (Sy), horizontal hydraulic conductivity (Kh), basin dimensions (x, y), duration of infiltration period (t), and the initial thickness of the saturated zone (hi(0), height of the water table if the bottom of the aquifer is the datum). For a square basin the half width equals the half length (x = y). For a rectangular basin, if the user wants the water-table changes perpendicular to the long side, specify x as the short dimension and y as the long dimension. Conversely, if the user wants the values perpendicular to the short side, specify y as the short dimension, x as the long dimension. All distances are from the center of the basin. Users can change the distances from the center of the basin at which water-table aquifer thickness are calculated.

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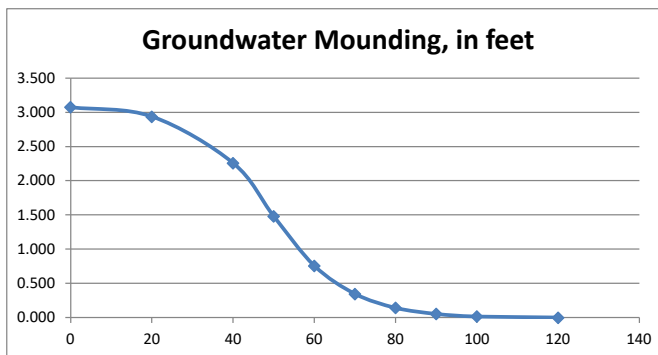
Input Values		use consistent units (e.g. feet & days or inches & hours)	Conversion Table		In the report accompanying this spreadsheet (USGS SIR 2010-5102), vertical soil permeability (ft/d) is assumed to be one-tenth horizontal hydraulic conductivity (ft/d).
			inch/hour	feet/day	
7.0000	R	Recharge (infiltration) rate (feet/day)	0.67	1.33	
0.260	Sy	Specific yield, Sy (dimensionless, between 0 and 1)			
70.00	K	Horizontal hydraulic conductivity, Kh (feet/day)*	2.00	4.00	
49.000	x	1/2 length of basin (x direction, in feet)			
46.000	y	1/2 width of basin (y direction, in feet)	hours	days	
0.120	t	duration of infiltration period (days)	36	1.50	
10.000	hi(0)	initial thickness of saturated zone (feet)			
13.077	h(max)	maximum thickness of saturated zone (beneath center of basin at end of infiltration period)			
3.077	Δh(max)	maximum groundwater mounding (beneath center of basin at end of infiltration period)			

Ground-water Mounding, in feet

Distance from center of basin in x direction, in feet	
0	3.077
20	2.938
40	2.260
50	1.484
60	0.758
70	0.348
80	0.144
90	0.054
100	0.019
120	0.002



Re-Calculate Now



Disclaimer

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HOWARD STEIN HUDSON

Engineers + Planners

Operation and Maintenance Plan and Long-Term Pollution Prevention Plan

51-53-55 Summer Street

Walpole, Massachusetts

Prepared by:

Howard Stein Hudson

114 Turnpike Road, Suite 2C
Chelmsford, MA 01824

October 2022



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Operation and Maintenance Plan

Deep Sump Hooded Catch Basins

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$10,200.00 - \$15,300.00

(Per DEP Stormwater Structural BMP's Vol 2)

Inspect or clean deep sump basins at least four times per year and at the end of the foliage and snow removal seasons. Sediments must also be removed four times per year or whenever the depth of deposits is greater than or equal to one half the depth from the bottom of the invert of the lowest pipe in the basin. If handling runoff from land uses with higher potential pollutant loads or discharging runoff near or to a critical area, more frequent cleaning may be necessary. Clamshell buckets are typically used to remove sediment in Massachusetts. However, vacuum trucks are preferable because they remove more trapped sediment and supernatant than clamshells. Vacuuming is also a speedier process and is less likely to snap the cast iron hood within the deep sump catch basin.

October 12, 2022

[illegible]

***Evidence of maintenance (i.e. receipts) must be provided.**



Contech Water Quality Unit – STC 450i

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$200.00 - \$300.00

(Per Stormceptor Inspection and Maintenance Guide)

Inspect or clean pos-construction prior to being put in service. The unit is to be cleaned by a vacuum truck. The unit should be cleaned once the sediment depth reaches 15% of the storage capacity, or when about 8 inches of sediment has been accumulated. Additional information regarding the maintenance of the unit can be found within the attached product Maintenance Manual.

Date	Inspector	Condition	Maintenance Performed*

***Evidence of maintenance (i.e. receipts) must be provided.**



ACF Rain Guardian

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$250.00 - \$500.00

(Per Manufacturer)

Depending on the characteristics of the contributing watershed and seasonal variation, common maintenance needs include periodic removal of accumulated leaves (and other organic debris) and garbage from the top grate and sediment and fine debris from the concrete dry filter box.

Contributing watersheds with high sediment concentrations may require inspections monthly and clean them out at least four times a year. More frequent visits may be needed to satisfy maintenance needs.

If sediment accumulates beyond an acceptable level in the system, it will be necessary to remove. This can be done by manual removal with a shovel or mechanical device. The filter screen can be cleaned manually through brushing or with pressurized water.

October 12, 2022

[illegible]

***Evidence of maintenance (i.e. receipts) must be provided.**



Subsurface Infiltration System

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$200.00 - \$300.00

(Per DEP Stormwater Structural BMP's Vol 2)

For the first 3 months after construction, the subsurface infiltration system should be inspected after every storm greater than 1" for standing water for periods more than 72 hours. Therein after, the subsurface infiltration system should be inspected biannually. If standing water is observed for longer than 72 hours, a pump should be placed in the basin and discharged through the outlet pipe. After the system is dewatered, it should be observed by a Professional Engineer. A Professional Engineer should provide an opinion as to why the infiltration system is not draining and provide recommendations to restore infiltration capacity to the system.

October 12, 2022

[illegible]

*Evidence of maintenance (i.e. receipts) must be provided.



Isolator Row

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$600.00 - \$900.00

(Per DEP Stormwater Structural BMP's Vol 2)

In the first year of operation, the Isolator Row should be inspected every 6 months for depth of sediment. Therein after, the Isolator Row should be inspected annually. If sediment is present, a stadia rod should be inserted into the inspection port to determine depth of sediment. If/when the depth exceeds 3 inches throughout the length of the Isolator Row, clean out should be performed. Please see the Isolator Row Maintenance Manual for cleanout procedures.

Date	Inspector	Condition	Maintenance Performed*

*Evidence of maintenance (ie. receipts) must be provided.



Sediment Forebay

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$1,200.00

(Per DEP Stormwater Structural BMP's Vol 2)

In many cases, a landscaping contractor working elsewhere on the site can complete maintenance tasks. Stabilize the floor and sidewalls of the sediment forebay before making it operational, otherwise the practice will discharge excess amounts of suspended sediments.

Inspect and clean out the sediment forebay to assure that sediments and associated pollutants are cleaned out. Frequently removing accumulated sediments will make it less likely that sediments will be resuspended. At a minimum, inspect the sediment forebays monthly and clean them out at least four times a year.

Mow the grass areas and keep the grass height no greater than 6 inches. Check for signs of rilling and gullyng and repair as needed. After removing the sediment, replace any vegetation damaged during the clean-out by either reseeding or resodding. When reseeding, incorporate practices such as hydroseeding with a tackifier, blanket, or similar practice to ensure that no scour occurs in the forebay, while the seeds germinate and develop roots.

*Paying careful attention to the pretreatment and operation and maintenance can extend the life of the soil media.



Date	Inspector	Condition	Maintenance Performed*

*Evidence of maintenance (ie. receipts) must be provided.



Infiltration Ponds

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$580.00

(Per DEP Stormwater Structural BMP's Vol 2)

In many cases, a landscaping contractor working elsewhere on the site can complete maintenance tasks. Inspect the basin and outlet structure to ensure no structural damage has occurred and that they are functioning properly and up to design standards.

Inspection and preventive maintenance are required at least twice per year, and after each major storm event. Note how long water remains standing in the basin after a storm. If water remains standing after 48 to 72 hours after a storm, the infiltration basin may be clogged.

At least twice per year, mow the buffer area, side slopes, and basin bottom. Remove grass clippings, accumulated organic matter, trash and debris at this time.

Remove sediment from the basin as necessary when the basin is dry. Use light equipment when removing the top layer, as to not compact the underlying soil. Use deep tilling to break and remove any clogged surfaces and revegetate immediately.

Important items to check during inspections include:

- Signs of differential settlement
- Cracking
- Erosion
- Leakage in the embankments
- Tree growth on the embankments
- Condition of rip rap
- Sediment accumulation
- Health of vegetation, turf

*Paying careful attention to the pretreatment and operation and maintenance can extend the life of the soil media.



Date	Inspector	Condition	Maintenance Performed*

*Evidence of maintenance (ie. receipts) must be provided.



Pocket Wetland

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$580.00

(Per DEP Stormwater Structural BMP's Vol 2)

The constructed stormwater wetland must be observed over time. In the first 3 years after construction, inspect the constructed stormwater wetland twice a year during both the growing and non-growing seasons. Following the maturation of the plant community within the treatment wetland(s), in addition to annual forebay inspection and clean-outs, the plant communities will be assessed to verify that the desired species composition is retained, and that woody or pernicious species do not become substantially established. In the event that undesirable plant specimens become established these will be removed either by hand pulling, puller-bear extraction, or by targeted herbicide application by a Licensed Applicator. A brief, annual photolog (1-2 photos per community type from consistent view positions) will provide documentation under the O&M plan. During these inspections, record and map the following information:

- The types and distribution of the dominant wetland plants in the marsh;
- The presence and distribution of planted wetland species;
- The presence and distribution of invasive wetland species (invasive species must be removed);
- Indications that other species are replacing the planted wetland species;
- Percentages of standing water that is unvegetated (excluding the deep-water cells which are not suitable for emerging plant growth);
- The maximum elevation and the vegetative condition in this zone if the design elevation of the normal pool is being maintained for wetlands with extended zones;
- Stability of the original depth zones and the micro-topographic features; and
- Accumulation of sediment in the forebay and micro pool; and survival rate of plants (cells with dead plants must be replanted).



Date	Inspector	Condition	Maintenance Performed*

*Evidence of maintenance (ie. receipts) must be provided.



Outfalls and Riprap

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$750.00 - \$1,000.00

(Per DEP Stormwater Structural BMP's Vol 2)

Inspections should be performed annually and after major storm events. If riprap has been damaged, repairs should be made promptly to prevent a progressive failure. Channel obstructions, such as trees and sediment bars, can change flow patterns and cause erosive forces which may damage riprap and the integrity of the outfall.

Date	Inspector	Condition	Maintenance Performed*

*Evidence of maintenance (ie. receipts) must be provided.



Drip-edge System

System Owner: 55 SS LLC (until ownership is transferred)

David Hale

(978) 505-1720

dhale@omniproperties.com

Estimated Annual Maintenance: \$2,500.00 - \$3,000.00

(Per DEP Stormwater Structural BMP's Vol 2)

Inspect the infiltration trench after the first several rainfall events, after all major storms, and on regularly scheduled dates every six months. Inspect the trench 24 hours or several days after a rain event, to look for ponded water. If there is ponded water at the surface of the trench, it is likely that the trench surface is clogged. To address surface clogging, remove and replace the topsoil or first layer of stone aggregate and the filter fabric. If water is ponded inside the trench, it may indicate that the bottom of the trench has failed. To rehabilitate a failed trench, all accumulated sediment must be stripped from the bottom, the bottom of the trench must be scarified and tilled to induce infiltration, and all of the stone aggregate and filter fabric or media must be removed and replaced.



Date	Inspector	Condition	Maintenance Performed*

*Evidence of maintenance (ie. receipts) must be provided.



Erosion and Sediment Control Notes

- A. Erosion and sediment control measures must be installed prior to the start of construction and maintained and upgraded as necessary during construction by the contractor. It is the contractor's responsibility to inspect and install additional control measures as needed during construction.
- B. All catch basins receiving drainage from the project site must be provided with a catch basin filter.
- C. Stabilization of all re-graded and soil stockpile areas must be maintained during all phases of construction.
- D. Sediment removed from erosion and sediment control devices must be properly removed and disposed. All damaged controls must be removed and replaced.
- E. The contractor is responsible for implementing the erosion and sediment control plan which will be submitted as part of the SWPPP. This includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, and notifying the proper city agency of any transfer of this responsibility.
- F. The contractor shall be responsible for controlling wide erosion and dust throughout the life of his contract. Dust control may include, but is not limited to, sprinkling of water on exposed soils and street sweeping adjacent roadways.
- G. If final grading is to be delayed for more than 21 days after land disturbance activities cease, temporary vegetation or mulch shall be used to stabilize soils within 14 days of the last disturbance.
- H. If a disturbed area will be exposed for greater than one year, permanent grasses or other approved cover must be installed.
- I. The contractor must keep on-site at all times additional silt fence and straw wattle for the installation at the direction of the engineer or the city to mitigate any emergency condition.
- J. The construction fencing and erosion and sediment controls as shown may not be practical during all stages of construction. Earthwork activity on-site must be done in a manner such that runoff is directed to a sediment control device or infiltrated to the ground.



- K. Demolition and construction debris must be properly contained and disposed of.
- L. Disposal of all demolished materials is the responsibility of the contractor and must be hauled off-site in accordance with all federal, state, and local requirements.



General Construction Sequence

- Construction sequence to comply with the submitted and approved SWPPP.

Construction

A seven-step process to prepare a wetland bed prior to planting (Shueler 1992):

1. Prepare final pond-scaping and grading plans for the constructed stormwater wetland. At the same time, order wetland plant stocks from aquatic nurseries.
2. Once the constructed stormwater wetland volume has been excavated, grade the wetland to create the major internal features (pool, aquatic bench, deep water channels, etc.).
3. Because deep subsoils often lack the nutrients and organic matter needed to support vigorous plant growth, add topsoil and/or wetland mulch to the wetland excavation. If available, wetland mulch is preferable to topsoil.
4. After the mulch or topsoil has been added, grade the constructed stormwater wetland to its final elevations. Temporarily stabilize all wetland features above the normal pool. After final grading, close the pool drain to allow the pool to fill. MassDEP recommends evaluating the wetland elevations during a standing period of approximately six months to assess how the constructed stormwater wetland responds to storm flows and inundation, where the pond-scaping zones are located, and whether the final grade and micro-topography will persist over time.
5. Before planting, measure the constructed stormwater wetland depths to the nearest inch to confirm planting depth. If necessary, modify the pond-scape plan at this time to reflect altered depths or availability of plant stock.
6. Aggressively apply erosion controls during the standing and planting periods. Stabilize the vegetation in all areas above the normal pool elevation during the standing period (typically by hydroseeding).
7. Dewater the constructed stormwater wetland at least three days before planting, because a dry wetland is easier to plant than a wet one.



Invasive Vegetation Control

A. Wetland Replication Areas

1. Undesirable exotic vegetation, including all species from the Massachusetts Department of Agriculture, “Massachusetts Prohibited Plant List” (MA DAR, 2017) will be removed from areas where compensatory wetland replication will occur, including the adjacent upland work areas if applicable. Throughout the anticipated two (2) growing season monitoring period, undesirable plants will be removed by hand-pulling or mechanical means if necessary. Non-invasive wetland plants that are not desirable to the replication plan may also be controlled manually during the two seasons of maturation for the replication areas.

B. Upland Project Area Buffer Zone Invasive Species Control Plan

1. The most pernicious invasions of exotic vegetation currently occur within areas of former pasture within uplands that lie within the project area. These materials will be removed during site preparation and either chipped and composted and disposed of offsite or taken off site to a processing facility.
2. Undesirable exotic vegetation will be removed from areas of upland Buffer Zone within the project development areas (buildings, roads and drainage, landscaped areas). In general lawns and public areas with landscaping will be kept free of undesirable vegetation during normal landscape maintenance. Particular attention will be paid to areas not associated with private dwellings to assure that seed sources do not develop within areas beyond exclusive use zones. No management of exotic vegetation will be conducted within areas left in their natural state.

C. Invasive Plant Species Maintenance Plan

1. Throughout the areas improved beyond exclusive use and public use areas (lawns, gardens, planting islands, sidewalks) annual mowing will be performed, after August 1, for the purpose of controlling invasive plant species, both woody and herbaceous.
2. Areas beyond typical public view or visitation are particularly susceptible to overgrowth by undesirable species; examples of these can be found at: <http://www.massnrc.org/MIPAG/invasive.htm>. These species can generally be controlled or eliminated by regular mowing and destruction of propagules prior to ripening. The areas of greatest concern are low/no activity areas such as detention basin berms, and



areas cleared and graded for project construction, but not part of normal habitation and use activities. Example areas include:

- 2.1 East of Basin #1
 - 2.2 East of Building #1 and parking
 - 2.3 North and East of Basin
 - 2.4 North of Maintenance Facilities
3. Regular, annual mowing of these areas will discourage establishment and propagation of undesirable plant species. In the event that species on the MIPAG list (or other current recognized lists) become established despite mowing, conventional measures will be employed to eradicate these from herbaceous communities functioning to stabilize areas disturbed in the course of project construction. Hand, or mechanical pulling, or licensed herbicide application, as appropriate will be used to minimize advancement of undesirable plant species in “back areas” not typically used for recreation or enjoyment by the residents.



Long-Term Pollution Prevention Plan

This Long-Term Pollution Prevention Plan is prepared to comply with the provisions set forth in the Massachusetts Department of Environmental Protection (DEP) Stormwater Management Standards. Structural Best Management Practices (BMP's) require periodic maintenance to ensure proper function and efficiency in pollutant removal from stormwater discharges that would otherwise reach wetland resource areas untreated.

Maintenance schedules found below are as recommended in Department of Environmental Protection's Massachusetts Stormwater Handbook and as recommended in manufacturer's specifications.

■ Transfer of Ownership

After the project is completed the site ownership and maintenance responsibilities will be transferred to a from 55 SS LLC. The new owner will be responsible for the operation, maintenance, and inspection of all components of the onsite stormwater management system.

Trash and Litter Cleanup

The owner (or maintainer) shall perform trash and litter cleanup once per month in and around the site. Trash and litter shall be disposed of in the on-site dumpsters during construction, and after construction shall be collected and properly disposed of.

Paved Roadway

Impervious surfaces (pavement and sidewalks) shall be swept on an annual basis between April 1 and May 31. Raised sidewalks shall be swept by hand prior to any mechanical (rotary brush) sweeping. Sand and sediment deposits shall be collected from the site and disposed of by a licensed contractor, who must dispose of the material off-site in a manner consistent with all local, state, and federal regulations.

Deep Sump Hooded Catch Basins

Catch Basins shall be inspected on a bi-annual basis. Any sediment accumulations in excess of half the unit's sump depth shall be removed. Material shall be removed by a licensed contractor, who shall be responsible for disposing of the material off-site in a manner consistent with all local, state, and federal regulations.



Contech Water Quality Unit – STC 450i

Inspect or clean post-construction prior to being put in service. The unit is to be cleaned by a vacuum truck. The unit should be cleaned once the sediment depth reaches 15% of the storage capacity, or when about 8 inches of sediment has been accumulated. Additional information regarding the maintenance of the unit can be found within the attached product Maintenance Manual.

ACF Rain Guardian

Depending on the characteristics of the contributing watershed and seasonal variation, common maintenance needs include periodic removal of accumulated leaves (and other organic debris) and garbage from the top grate and sediment and fine debris from the concrete dry filter box.

Contributing watersheds with high sediment concentrations may require inspections monthly and clean them out at least four times a year. More frequent visits may be needed to satisfy maintenance needs.

If sediment accumulates beyond an acceptable level in the system, it will be necessary to remove. This can be done by manual removal with a shovel or mechanical device. The filter screen can be cleaned manually through brushing or with pressurized water.

Landscape Maintenance of Maintained Landscape Areas

Landscaped surfaces in and around the proposed development in maintained areas shall be kept healthy and maintained. All lawn areas, as shown in maintained upland areas, shall be kept cut and watered to maintain groundcover. Clippings shall be contained and disposed of at an offsite location. Care should be taken as to not dump or dispose of any clippings and or plant material into the replication area and/or the Town of Walpole Conservation Areas. All landscaping on the site shall be installed so as to not require ongoing use of fertilizers and pesticides. Fertilizers containing phosphorus shall not be used on the property. All landscape waste accumulated in the course of grounds maintenance, including grass clippings and leaves, shall be disposed of at a proper upland composting or disposal area, and shall not be disposed of in any wetland area or buffer zone without the approval of the conservation commission. Non-organic fertilizers and pesticides and landscape care chemicals within 100 feet of the wetlands are prohibited. Signs must be posted as referenced in condition #49 of the Decision and dog curbing rules must be implemented (pick up and proper disposal) to further reduce nutrient loading within wetland resource areas.

Shrubs and trees shall be maintained and shall be replaced immediately if the plant has died.



Snow Plowing and Disposal

All snow shall be plowed and stored within the areas designated on the O&M and LTPPP Plan. Once these areas can no longer accept additional snow, all excess snow shall be removed from the site. Absolutely no deposition of snow shall enter directly into the wetlands or placed over any stormwater management facility. This shall be maintained in perpetuity.

Subsurface Infiltration Systems

For the first 3 months after construction, the subsurface infiltration system should be inspected after every storm greater than 1" for standing water for periods more than 72 hours. Therein after, the subsurface infiltration system should be inspected biannually. If standing water is observed for longer than 72 hours, a pump should be placed in the basin and discharged through the outlet pipe. After the system is dewatered, it should be observed by a Professional Engineer. A Professional Engineer should provide an opinion as to why the infiltration system is not draining and provide recommendations to restore infiltration capacity to the system.

Isolator Row

In the first year of operation, the Isolator Row should be inspected every 6 months for depth of sediment. Therein after, the Isolator Row should be inspected annually. If sediment is present, a stadia rod should be inserted into the inspection port to determine depth of sediment. If/when the depth exceeds 3 inches throughout the length of the Isolator Row, clean out should be performed. Please see the Isolator Row Maintenance Manual for cleanout procedures.

Sediment Forebays

In many cases, a landscaping contractor working elsewhere on the site can complete maintenance tasks. Stabilize the floor and sidewalls of the sediment forebay before making it operational, otherwise the practice will discharge excess amounts of suspended sediments.

Inspect and clean out the sediment forebay to assure that sediments and associated pollutants are cleaned out. Frequently removing accumulated sediments will make it less likely that sediments will be resuspended. At a minimum, inspect the sediment forebays monthly and clean them out at least four times a year.

Mow the grass areas and keep the grass height no greater than 6 inches. Check for signs of rilling and gullyng and repair as needed. After removing the sediment, replace any vegetation damaged during the clean-out by either reseeding or resodding. When reseeding, incorporate practices such as



hydroseeding with a tackifier, blanket, or similar practice to ensure that no scour occurs in the forebay while the seeds germinate and develop roots.

Infiltration Pond

In many cases, a landscaping contractor working elsewhere on the site can complete maintenance tasks. Inspect the basin and outlet structure to ensure no damage has occurred and that they are functioning properly and up to design standards.

Inspection and preventive maintenance is required at least twice per year, and after each major storm event. Note how long water remains standing in the basin after a storm. If water remains standing after 48 to 72 hours after a storm, the infiltration basin may be clogged.

At least twice per year, mow the buffer area, side slopes, and basin bottom. Remove grass clippings, accumulated organic matter, trash and debris at this time.

Remove sediment from the basin as necessary when the basin is dry. Use light equipment when removing the top layer, as not to compact the underlying soil. Use deep tilling to break and remove any clogged surfaces and revegetate immediately.

Important items to check during inspections include:

- Signs of differential settlement
- Cracking
- Erosion
- Leakage in the embankments
- Condition of rip rap
- Sediment accumulation
- Health of vegetation, turf

Pocket Wetlands

Unlike conventional wet basin systems that require large-scale sediment removal at infrequent intervals, constructed stormwater wetlands require small-scale maintenance at regular intervals to evaluate the health and composition of the plant species.

Proponents must carefully observe the constructed stormwater wetland system over time. In the first three years after construction, inspect the constructed stormwater wetlands twice a year during both the growing and non-growing seasons. The sediment forebays should be inspected and cleaned once a year. This requirement must be included in the Operations and Maintenance plan. During these inspections, record and map the following information:



- The types and distribution of the dominant wetland plants in the marsh
- The presence and distribution of planted wetland species
- The presence and distribution of invasive wetland species (invasives must be removed)
- Indications that other species are replacing the planted wetland species
- Percentage of standing water that is unvegetated (excluding the deep water cells which are not suitable for emergent plant growth)
- The maximum elevation and the vegetative condition in this zone, if the design elevation of the normal pool is being maintained for wetlands with extended zones
- Stability of the original depth zones and the micro-topographical features
- Accumulation of sediment in the forebay and micropool; and survival rate of plants (cells with dead plants must be replanted)

Outfalls and Riprap

Inspections should be performed annually and after major storm events. If riprap has been damaged, repairs should be made promptly to prevent a progressive failure. Channel obstructions, such as trees and sediment bars, can change flow patterns and cause erosive forces which may damage riprap and the integrity of the outfall.

Drip-edge System

Inspect the infiltration trench after the first several rainfall events, after all major storms, and on regularly scheduled dates every six months. Inspect the trench 24 hours or several days after a rain event, to look for ponded water. If there is ponded water at the surface of the trench, it is likely that the trench surface is clogged. To address surface clogging, remove and replace the topsoil or first layer of stone aggregate and the filter fabric. If water is ponded inside the trench, it may indicate that the bottom of the trench has failed. To rehabilitate a failed trench, all accumulated sediment must be stripped from the bottom, the bottom of the trench must be scarified and tilled to induce infiltration, and all of the stone aggregate and filter fabric or media must be removed and replaced.

DEP Standard 4: Water Quality

The Long-Term Pollution Prevention Plan Includes the following:

Good housekeeping practices:

Prevent or reduce pollutant runoff from reaching the wetland resource areas through street sweeping, stabilizing all disturbed areas with vegetative cover and catch basin cleaning.

Provisions for storing materials and waste products inside or under cover:



All materials on site are to be stored in a neat and orderly fashion in their appropriate containers and, if possible, under a roof or other secure enclosure. All waste products are to be placed in secure receptacles until they are emptied by a solid waste management company licensed in the commonwealth of Massachusetts.

Vehicle washing controls:

Vehicle washing will occur on-site as part of standard operations. All contaminants / hazardous waste shall be disposed of in a manner specified by local or state regulations or by the manufacturer. provide an effective means of minimizing the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other types of wash waters. Ensure there is no discharge of soaps, solvents, or detergents in equipment and vehicle wash water; and for storage of soaps, detergents, or solvents, provide either (1) cover (e.g., plastic sheeting, temporary roofs) to minimize the exposure of these detergents to precipitation and to stormwater, or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas. The homeowners shall be instructed in these practices.

Requirements for routine inspections and maintenance of Stormwater BMP's:

Follow the procedures outlined within the Operations and Maintenance Section of this report.

Spill prevention and response plan:

Spill Prevention: As mentioned previously, all materials on site are to be stored in a neat and orderly fashion in their appropriate containers and, if possible, under a roof or other secure enclosure.

Products shall be kept in their original containers with the original manufacturer's label. Product should not be mixed unless recommended by the manufacturer. The manufacturer's recommendations for proper use, storage and disposal shall be followed at all times and, if possible, all of the product should be used up before proper disposal.

The manufacturer's recommended methods for cleanup must be followed and spills cleaned up immediately after discovery. Spills shall be kept well ventilated and personnel must wear appropriate protective gear to prevent injury from contact with hazardous substances. Spills of toxic or hazardous materials must be reported to the appropriate local and/ or state agency in accordance with the local and/ or Commonwealth of Massachusetts regulations.

Requirements for storage and use of fertilizers, herbicides and pesticides:

Consult the town of Chelmsford, MA Conservation Commission for any questions regarding these materials.

Fertilizers:



Fertilizers are to be applied at the minimum amounts recommended by the manufacturer and once applied shall be worked into the soil to limit the possibility of entering the storm drains. Storage procedures are to be followed as previously stated and the contents of any partially used bags should be transferred to a sealable container, either bag or bin to avoid spilling.

Herbicides and Pesticides: Storage of these materials are to be as outlined previously and especially out of the reach of pets and children, away from damp areas where their containers may succumb to moisture or rust and should not be stored near food. These materials must not be placed in the trash or washed down the drain. Handle using rubber gloves and use an appropriate mask when using these products for extensive periods of time.

Provisions for maintenance of lawns, gardens, and other landscaped areas:

lawns gardens and other landscape areas are to be maintained in a manner that the ground remains stabilized. All dead plants shall be replaced in a timely manner as to prevent erosion and sedimentation control within the resource areas buffer zones.

Provisions for solid waste management:

All waste products are to be placed in secure receptacles until they are emptied by a solid waste management company licensed in the Commonwealth of Massachusetts.

Snow disposal and plowing plans relative to Wetland Resource Areas:

Snow disposal/removal shall refer to the locations as depicted on the O&M and LTPPP Plan attached to this document.

Winter Road Salt and/or Sand Use and Storage restrictions:

Road Salt use must be in compliance with the Guidelines on Deicing Chemical (Road Salt) Storage effective date December 19, 1997, Guideline No. DWSG97-1 found in the BRP's Drinking Water Program. Sand Use: Encourage the use of environmentally friendly alternatives such as calcium chloride and/or sand instead of road salt for melting ice whenever possible. Use of de-icing agents should be tightly restricted to those absolutely necessary for public safety in consideration of associated vegetated wetlands. Environmentally friendly salt alternatives shall be used for de-icing operations.

Provisions for prevention of illicit discharges to the stormwater management systems:

According to Standard 10 in the Massachusetts Stormwater Handbook, Illicit discharges to the stormwater management system are discharges that are not entirely comprised of stormwater. Notwithstanding the foregoing, an illicit discharge does not include discharges from the following activities or facilities: firefighting, water line flushing, landscape irrigation, uncontaminated groundwater, potable water sources, foundation drains, air conditioning condensation, footing drains, individual resident car washing, flows from riparian habitats and wetlands, dechlorinated



water from swimming pools, water used for street washing and water used to clean residential buildings without detergents.

Training for staff or personnel involved with implementing LTPPP:

This responsibility lies with the owner(s) unless a legally-binding agreement is made with another party to perform such duties for the owner(s).

List of Emergency contacts for implementing Long-Term Pollution Prevention Plan:

This responsibility lies with the owner(s) unless a legally-binding agreement is made with another party to perform such duties for the owner(s).



Appendix A: Stormtech Construction Guide



StormTech Construction Guide

REQUIRED MATERIALS AND EQUIPMENT LIST

- Acceptable fill materials per Table 1
- ADS Plus and non-woven geotextile fabrics
- StormTech solid end caps and pre-cored end caps
- StormTech chambers
- StormTech manifolds and fittings

IMPORTANT NOTES:

A. This installation guide provides the minimum requirements for proper installation of chambers. Non-adherence to this guide may result in damage to chambers during installation. Replacement of damaged chambers during or after backfilling is costly and very time consuming. It is recommended that all installers are familiar with this guide, and that the contractor inspects the chambers for distortion, damage and joint integrity as work progresses.

B. Use of a dozer to push embedment stone between the rows of chambers may cause damage to chambers and is not an acceptable backfill method. Any chambers damaged by using the “dump and push” method are not covered under the StormTech standard warranty.

C. Care should be taken in the handling of chambers and end caps. Avoid dropping, prying or excessive force on chambers during removal from pallet and initial placement.

Requirements for System Installation



Excavate bed and prepare subgrade per engineer's plans.



Place non-woven geotextile over prepared soils and up excavation walls. Install underdrains if required.

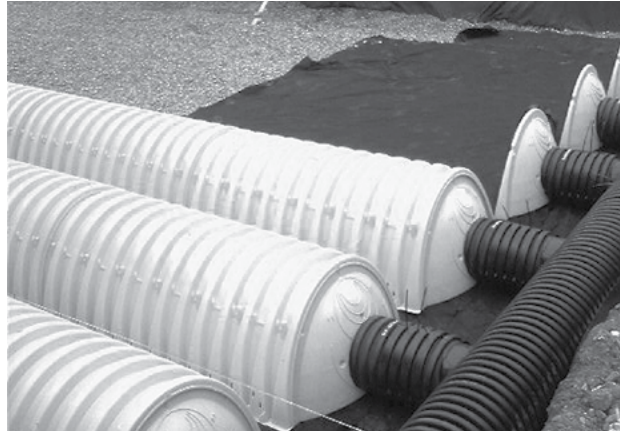


Place clean, crushed, angular stone foundation 6" (150 mm) min. Compact to achieve a flat surface.

Manifold, Scour Fabric and Chamber Assembly



Install manifolds and lay out ADS PLUS fabric at inlet rows [min. 12.5 ft (3.8 m)] at each inlet end cap. Place a continuous piece along entire length of Isolator® PLUS Row(s).



Align the first chamber and end cap of each row with inlet pipes. Contractor may choose to postpone stone placement around end chambers and leave ends of rows open for easy inspection of chambers during the backfill process.



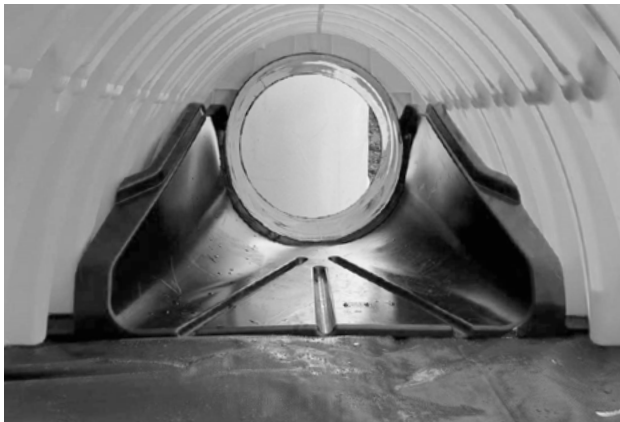
Continue installing chambers by overlapping chamber end corrugations. Chamber joints are labeled “Lower Joint – Overlap Here” and “Build this direction – Upper Joint” Be sure that the chamber placement does not exceed the reach of the construction equipment used to place the stone. Maintain minimum 6” (150 mm) spacing between rows.

Attaching the End Caps



Lift the end of the chamber a few inches off the ground. With the curved face of the end cap facing outward, place the end cap into the chamber's end corrugation.

Prefabricated End Caps



24” (600 mm) inlets are the maximum size that can fit into a SC-740/DC-780 end cap and must be prefabricated with a 24” (600 mm) pipe stub. SC-310 chambers with a 12” (300 mm) inlet pipe must use a prefabricated end cap with a 12” (300 mm) pipe stub. When used on an Isolator Row PLUS, these end caps will contain a welded FLAMP (flared end ramp) that will lay on top of the ADS PLUS fabric (shown above)

Isolator Row PLUS



Place a continuous layer of ADS PLUS fabric between the foundation stone and the Isolator Row PLUS chambers, making sure the fabric lays flat and extends the entire width of the chamber feet. Drape a strip of ADS non-woven geotextile over the row of chambers (not required over DC-780). This is the same type of non-woven geotextile used as a separation layer around the angular stone of the StormTech system.

Initial Anchoring of Chambers – Embedment Stone



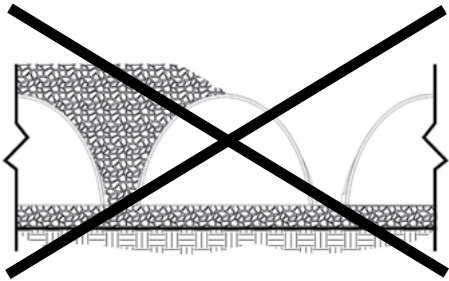
Initial embedment shall be spotted along the centerline of the chamber evenly anchoring the lower portion of the chamber. This is best accomplished with a stone conveyor or excavator reaching along the row.



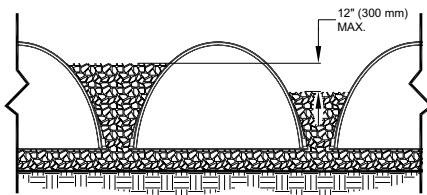
No equipment shall be operated on the bed at this stage of the installation. Excavators must be located off the bed. Dump trucks shall not dump stone directly on to the bed. Dozers or loaders are not allowed on the bed at this time.



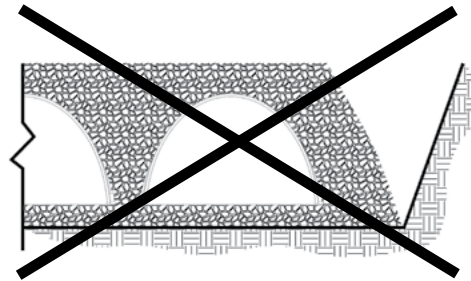
Backfill of Chambers – Embedment Stone



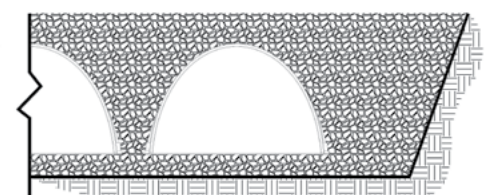
UNEVEN BACKFILL



EVEN BACKFILL



PERIMETER NOT BACKFILLED



PERIMETER FULLY BACKFILLED

Backfill chambers evenly. Stone column height should never differ by more than 12" (300 mm) between adjacent chamber rows or between chamber rows and perimeter.

Perimeter stone must be brought up evenly with chamber rows. Perimeter must be fully backfilled, with stone extended horizontally to the excavation wall.

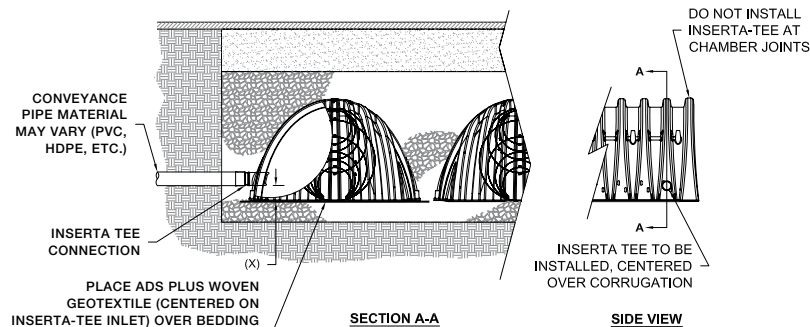
Backfill - Embedment Stone & Cover Stone



Continue evenly backfilling between rows and around perimeter until embedment stone reaches tops of chambers. Perimeter stone must extend horizontally to the excavation wall for both straight or sloped sidewalls. **Only after chambers have been backfilled to top of chamber and with a minimum 6" (150 mm) of cover stone on top of chambers can small dozers be used over the chambers for backfilling remaining cover stone.**

Small dozers and skid loaders may be used to finish grading stone backfill in accordance with ground pressure limits in Table 2. They must push material parallel to rows only. Never push perpendicular to rows. StormTech recommends that the contractor inspect chambers before placing final backfill. Any chambers damaged by construction shall be removed and replaced.

Inserta Tee Detail



NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 36, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON.

Final Backfill of Chambers – Fill Material



Install non-woven geotextile over stone. Geotextile must overlap 24" (600 mm) min. where edges meet. Compact each lift of backfill as specified in the site design engineer's drawings. Roller travel parallel with rows.

StormTech Isolator Row PLUS Detail

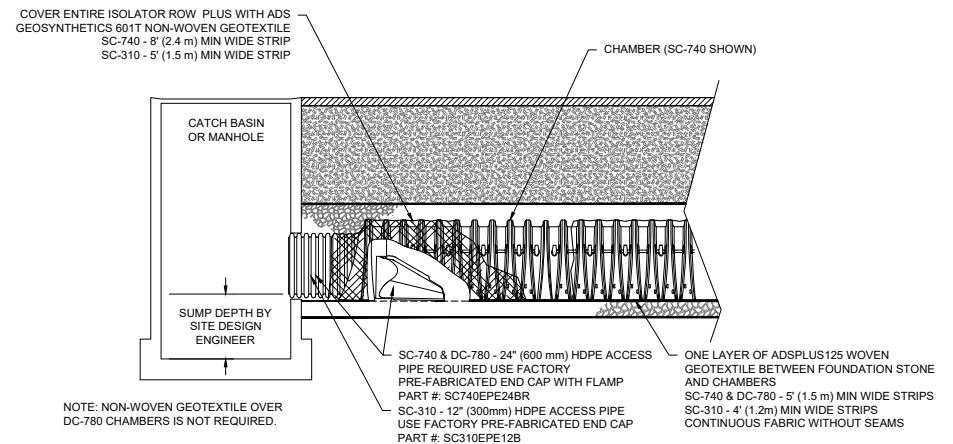


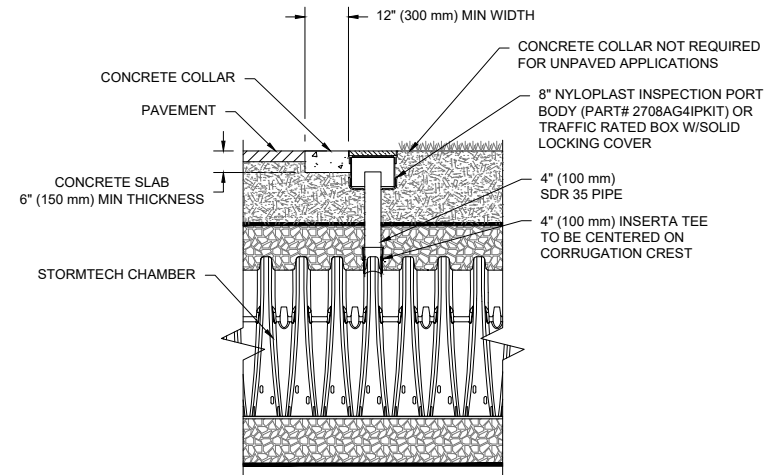
Table 1- Acceptable Fill Materials

Material Location	Description	AASHTO M43 Designation ¹	Compaction/Density Requirement
(D) Final Fill: Fill Material for layer 'D' starts from the top of the 'C' layer to the bottom of flexible pavement or unpaved finished grade above. Note that the pavement subbase may be part of the 'D' layer.	Any soil/rock materials, native soils or per engineer's plans. Check plans for pavement subgrade requirements.	N/A	Prepare per site design engineer's plans. Paved installations may have stringent material and preparation requirements.
(C) Initial Fill: Fill Material for layer 'C' starts from the top of the embedment stone ('B' layer) to 18" (450 mm) above the top of the chamber. Note that pavement subbase may be part of the 'C' layer.	Granular well-graded soil/aggregate mixtures, <35% fines or processed aggregate. Most pavement subbase materials can be used in lieu of this layer.	AASHTO M45 A-1, A-2-4, A-3 or AASHTO M431 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	Begin compaction after min. 12" (300 mm) of material over the chambers is reached. Compact additional layers in 6" (150 mm) max. lifts to a min. 95% Proctor density for well-graded material and 95% relative density for processed aggregate materials. Roller gross vehicle weight not to exceed 12,000 lbs (53 kN). Dynamic force not to exceed 20,000 lbs (89 kN).
(B) Embedment Stone: Embedment Stone surrounding chambers from the foundation stone to the 'C' layer above.	Clean, crushed, angular stone	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	No compaction required.
(A) Foundation Stone: Foundation Stone below the chambers from the subgrade up to the foot (bottom) of the chamber.	Clean, crushed, angular stone,	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	Place and compact in 6" (150 mm) lifts using two full coverages with a vibratory compactor. ^{2,3}

PLEASE NOTE:

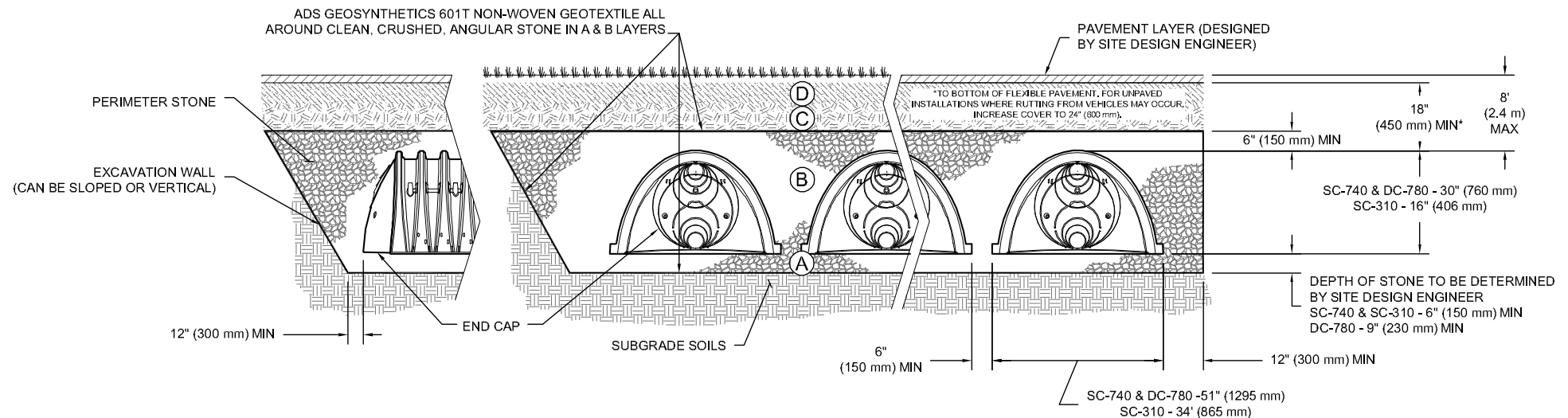
- The listed AASHTO designations are for gradations only. The stone must also be clean, crushed, angular. For example, a specification for #4 stone would state: "clean, crushed, angular no. 4 (AASHTO M43) stone".*
- StormTech compaction requirements are met for 'A' location materials when placed and compacted in 6" (150 mm) (max) lifts using two full coverages with a vibratory compactor.*
- Where infiltration surfaces may be comprised by compaction, for standard installations and standard design load conditions, a flat surface may be achieved by raking or dragging without compaction equipment. For special load designs, contact StormTech for compaction requirements.*

Figure 1- Inspection Port Detail



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

Figure 2 - Fill Material Locations



NOTES:

- 36" (900 mm) of stabilized cover materials over the chambers is required for full dump truck travel and dumping.**
- During paving operations, dump truck axle loads on 18" (450 mm) of cover may be necessary. Precautions should be taken to avoid rutting of the road base layer, to ensure that compaction requirements have been met, and that a minimum of 18" (450 mm) of cover exists over the chambers. Contact StormTech for additional guidance on allowable axle loads during paving.**
- Ground pressure for track dozers is the vehicle operating weight divided by total ground contact area for both tracks. Excavators will exert higher ground pressures based on loaded bucket weight and boom extension.**
- Mini-excavators (< 8,000lbs/3,628 kg) can be used with at least 12" (300 mm) of stone over the chambers and are limited by the maximum ground pressures in Table 2 based on a full bucket at maximum boom extension.**
- Storage of materials such as construction materials, equipment, spoils, etc. should not be located over the StormTech system. The use of equipment over the StormTech system not covered in Table 2 (ex. soil mixing equipment, cranes, etc) is limited. Please contact StormTech for more information.**
- Allowable track loads based on vehicle travel only. Excavators shall not operate on chamber beds until the total backfill reaches 3 feet (900 mm) over the entire bed.**

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Table 2 - Maximum Allowable Construction Vehicle Loads⁵

Material Location	Fill Depth over Chambers in. [mm]	Maximum Allowable Wheel Loads		Maximum Allowable Track Loads ⁶		Maximum Allowable Roller Loads
		Max Axle Load for Trucks lbs [kN]	Max Wheel Load for Loaders lbs [kN]	Track Width in. [mm]	Max Ground Pressure psf [kPa]	Max Drum Weight or Dynamic Force lbs [kN]
D Final Fill Material	36" [900] Compacted	32,000 [142]	16,000 [71]	12" [305]	3420 [164]	38,000 [169]
				18" [457]	2350 [113]	
				24" [610]	1850 [89]	
				30" [762]	1510 [72]	
				36" [914]	1310 [63]	
C Initial Fill Material	24" [600] Compacted	32,000 [142]	16,000 [71]	12" [305]	2480 [119]	20,000 [89]
				18" [457]	1770 [85]	
				24" [610]	1430 [68]	
				30" [762]	1210 [58]	
				36" [914]	1070 [51]	
	24" [600] Loose/Dumped	32,000 [142]	16,000 [71]	12" [305]	2245 [107]	20,000 [89] Roller gross vehicle weight not to exceed 12,000 lbs. [53 kN]
				18" [457]	1625 [78]	
				24" [610]	1325 [63]	
				30" [762]	1135 [54]	
				36" [914]	1010 [48]	
	18" [450]	32,000 [142]	16,000 [71]	12" [305]	2010 [96]	20,000 [89] Roller gross vehicle weight not to exceed 12,000 lbs. [53 kN]
				18" [457]	1480 [71]	
				24" [610]	1220 [58]	
				30" [762]	1060 [51]	
				36" [914]	950 [45]	
B Embedment Stone	12" [300]	16,000 [71]	NOT ALLOWED	12" [305]	1540 [74]	20,000 [89] Roller gross vehicle weight not to exceed 12,000 lbs. [53 kN]
				18" [457]	1190 [57]	
				24" [610]	1010 [48]	
				30" [762]	910 [43]	
				36" [914]	840 [40]	
	6" [150]	8,000 [35]	NOT ALLOWED	12" [305]	1070 [51]	NOT ALLOWED
				18" [457]	900 [43]	
				24" [610]	800 [38]	
				30" [762]	760 [36]	
				36" [914]	720 [34]	

Table 3 - Placement Methods and Descriptions

Material Location	Placement Methods/ Restrictions	Wheel Load Restrictions	Track Load Restrictions	Roller Load Restrictions
		See Table 2 for Maximum Construction Loads		
D Final Fill Material	A variety of placement methods may be used. All construction loads must not exceed the maximum limits in Table 2.	36" (900 mm) minimum cover required for dump trucks to dump over chambers.	Dozers to push parallel to rows until 36" (900mm) compacted cover is reached. ⁴	Roller travel parallel to rows only until 36" (900 mm) compacted cover is reached.
C Initial Fill Material	Excavator positioned off bed recommended. Small excavator allowed over chambers. Small dozer allowed.	Asphalt can be dumped into paver when compacted pavement subbase reaches 18" (450 mm) above top of chambers.	Small LGP track dozers & skid loaders allowed to grade cover stone with at least 6" (150 mm) stone under tracks at all times. Equipment must push parallel to rows at all times.	Use dynamic force of roller only after compacted fill depth reaches 12" (300 mm) over chambers. Roller travel parallel to chamber rows only.
B Embedment Stone	No equipment allowed on bare chambers. Use excavator or stone conveyor positioned off bed or on foundation stone to evenly fill around all chambers to at least the top of chambers.	No wheel loads allowed. Material must be placed outside the limits of the chamber bed.	No tracked equipment is allowed on chambers until a min. 6" (150 mm) cover stone is in place.	No rollers allowed.
A Foundation Stone	No StormTech restrictions. Contractor responsible for any conditions or requirements by others relative to subgrade bearing capacity, dewatering or protection of subgrade.			



Appendix B: Stormtech Isolator Row Operation and Maintenance Manual

Isolator[®] Row O&M Manual



THE ISOLATOR[®] ROW

INTRODUCTION

An important component of any Stormwater Pollution Prevention Plan is inspection and maintenance. The StormTech Isolator Row is a technique to inexpensively enhance Total Suspended Solids (TSS) removal and provide easy access for inspection and maintenance.

THE ISOLATOR ROW

The Isolator Row is a row of StormTech chambers, either SC-160LP, SC-310, SC-310-3, SC-740, DC-780, MC-3500 or MC-4500 models, that is surrounded with filter fabric and connected to a closely located manhole for easy access. The fabric-wrapped chambers provide for settling and filtration of sediment as storm water rises in the Isolator Row and ultimately passes through the filter fabric. The open bottom chambers and perforated sidewalls (SC-310, SC-310-3 and SC-740 models) allow storm water to flow both vertically and horizontally out of the chambers. Sediments are captured in the Isolator Row protecting the storage areas of the adjacent stone and chambers from sediment accumulation.

Two different fabrics are used for the Isolator Row. A woven geotextile fabric is placed between the stone and the Isolator Row chambers. The tough geotextile provides a media for storm water filtration and provides a durable surface for maintenance operations. It is also designed to prevent scour of the underlying stone and remain intact during high pressure jetting. A non-woven fabric is placed over the chambers to provide a filter media for flows passing through the perforations in the sidewall of the chamber. The non-woven fabric is not required over the SC-160LP, DC-780, MC-3500 or MC-4500 models as these chambers do not have perforated side walls.

The Isolator Row is typically designed to capture the “first flush” and offers the versatility to be sized on a volume basis or flow rate basis. An upstream manhole not only provides access to the Isolator Row but typically includes a high flow weir such that storm water flowrates or volumes that exceed the capacity of the Isolator Row overtop the over flow weir and discharge through a manifold to the other chambers.

The Isolator Row may also be part of a treatment train. By treating storm water prior to entry into the chamber system, the service life can be extended and pollutants such as hydrocarbons can be captured. Pre-treatment best management practices can be as simple as deep sump catch basins, oil-water separators or can be innovative storm water treatment devices. The design of the treatment train and selection of pretreatment devices by the design engineer is often driven by regulatory requirements. Whether pretreatment is used or not, the Isolator Row is recommended by StormTech as an effective means to minimize maintenance requirements and maintenance costs.

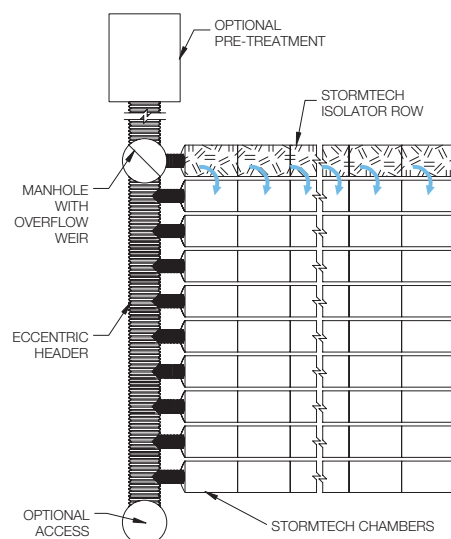
Note: See the StormTech Design Manual for detailed information on designing inlets for a StormTech system, including the Isolator Row.

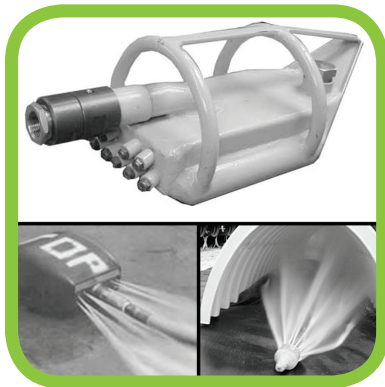


Looking down the Isolator Row from the manhole opening, woven geotextile is shown between the chamber and stone base.



StormTech Isolator Row with Overflow Spillway (not to scale)





ISOLATOR ROW INSPECTION/MAINTENANCE

INSPECTION

The frequency of inspection and maintenance varies by location. A routine inspection schedule needs to be established for each individual location based upon site specific variables. The type of land use (i.e. industrial, commercial, residential), anticipated pollutant load, percent imperviousness, climate, etc. all play a critical role in determining the actual frequency of inspection and maintenance practices.

At a minimum, StormTech recommends annual inspections. Initially, the Isolator Row should be inspected every 6 months for the first year of operation. For subsequent years, the inspection should be adjusted based upon previous observation of sediment deposition.

The Isolator Row incorporates a combination of standard manhole(s) and strategically located inspection ports (as needed). The inspection ports allow for easy access to the system from the surface, eliminating the need to perform a confined space entry for inspection purposes.

If upon visual inspection it is found that sediment has accumulated, a stadia rod should be inserted to determine the depth of sediment. When the average depth of sediment exceeds 3 inches throughout the length of the Isolator Row, clean-out should be performed.

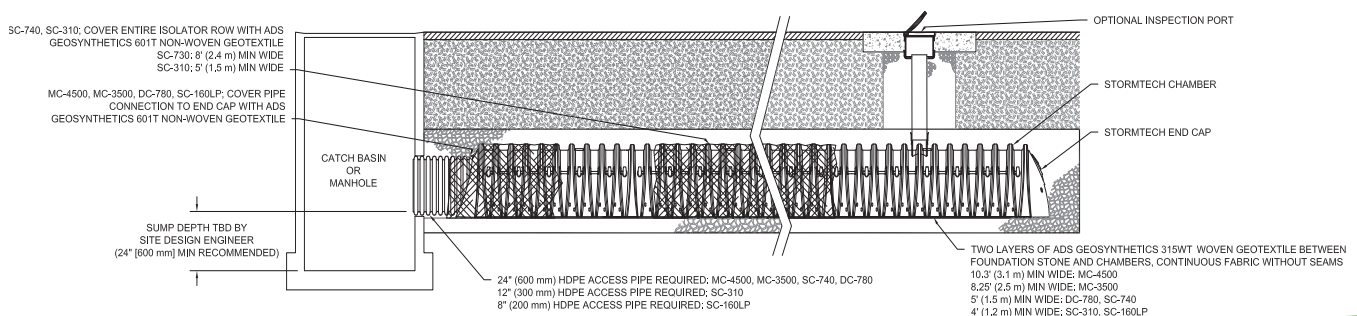
MAINTENANCE

The Isolator Row was designed to reduce the cost of periodic maintenance. By “isolating” sediments to just one row, costs are dramatically reduced by eliminating the need to clean out each row of the entire storage bed. If inspection indicates the potential need for maintenance, access is provided via a manhole(s) located on the end(s) of the row for cleanout. If entry into the manhole is required, please follow local and OSHA rules for a confined space entries.

Maintenance is accomplished with the JetVac process. The JetVac process utilizes a high pressure water nozzle to propel itself down the Isolator Row while scouring and suspending sediments. As the nozzle is retrieved, the captured pollutants are flushed back into the manhole for vacuuming. Most sewer and pipe maintenance companies have vacuum/JetVac combination vehicles. Selection of an appropriate JetVac nozzle will improve maintenance efficiency. Fixed nozzles designed for culverts or large diameter pipe cleaning are preferable. Rear facing jets with an effective spread of at least 45° are best. Most JetVac reels have 400 feet of hose allowing maintenance of an Isolator Row up to 50 chambers long. **The JetVac process shall only be performed on StormTech Isolator Rows that have AASHTO class 1 woven geotextile (as specified by StormTech) over their angular base stone.**

StormTech Isolator Row (not to scale)

Note: Non-woven fabric is only required over the inlet pipe connection into the end cap for SC-160LP, DC-780, MC-3500 and MC-4500 chamber models and is not required over the entire Isolator Row.



ISOLATOR ROW STEP BY STEP MAINTENANCE PROCEDURES

STEP 1

Inspect Isolator Row for sediment.

- A) Inspection ports (if present)
 - i. Remove lid from floor box frame
 - ii. Remove cap from inspection riser
 - iii. Using a flashlight and stadia rod, measure depth of sediment and record results on maintenance log.
 - iv. If sediment is at or above 3 inch depth, proceed to Step 2. If not, proceed to Step 3.
- B) All Isolator Rows
 - i. Remove cover from manhole at upstream end of Isolator Row
 - ii. Using a flashlight, inspect down Isolator Row through outlet pipe
 1. Mirrors on poles or cameras may be used to avoid a confined space entry
 2. Follow OSHA regulations for confined space entry if entering manhole
 - iii. If sediment is at or above the lower row of sidewall holes (approximately 3 inches), proceed to Step 2. If not, proceed to Step 3.

STEP 2

Clean out Isolator Row using the JetVac process.

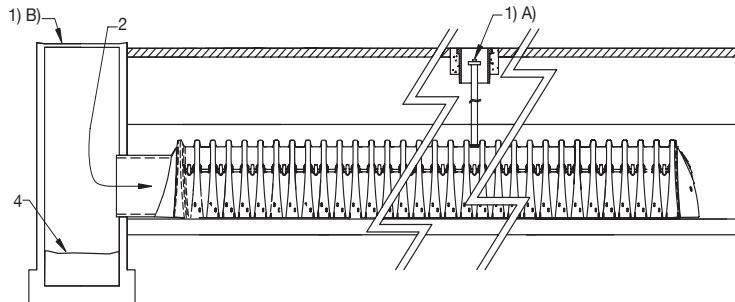
- A) A fixed floor cleaning nozzle with rear facing nozzle spread of 45 inches or more is preferable
- B) Apply multiple passes of JetVac until backflush water is clean
- C) Vacuum manhole sump as required

STEP 3

Replace all caps, lids and covers, record observations and actions.

STEP 4

Inspect & clean catch basins and manholes upstream of the StormTech system.



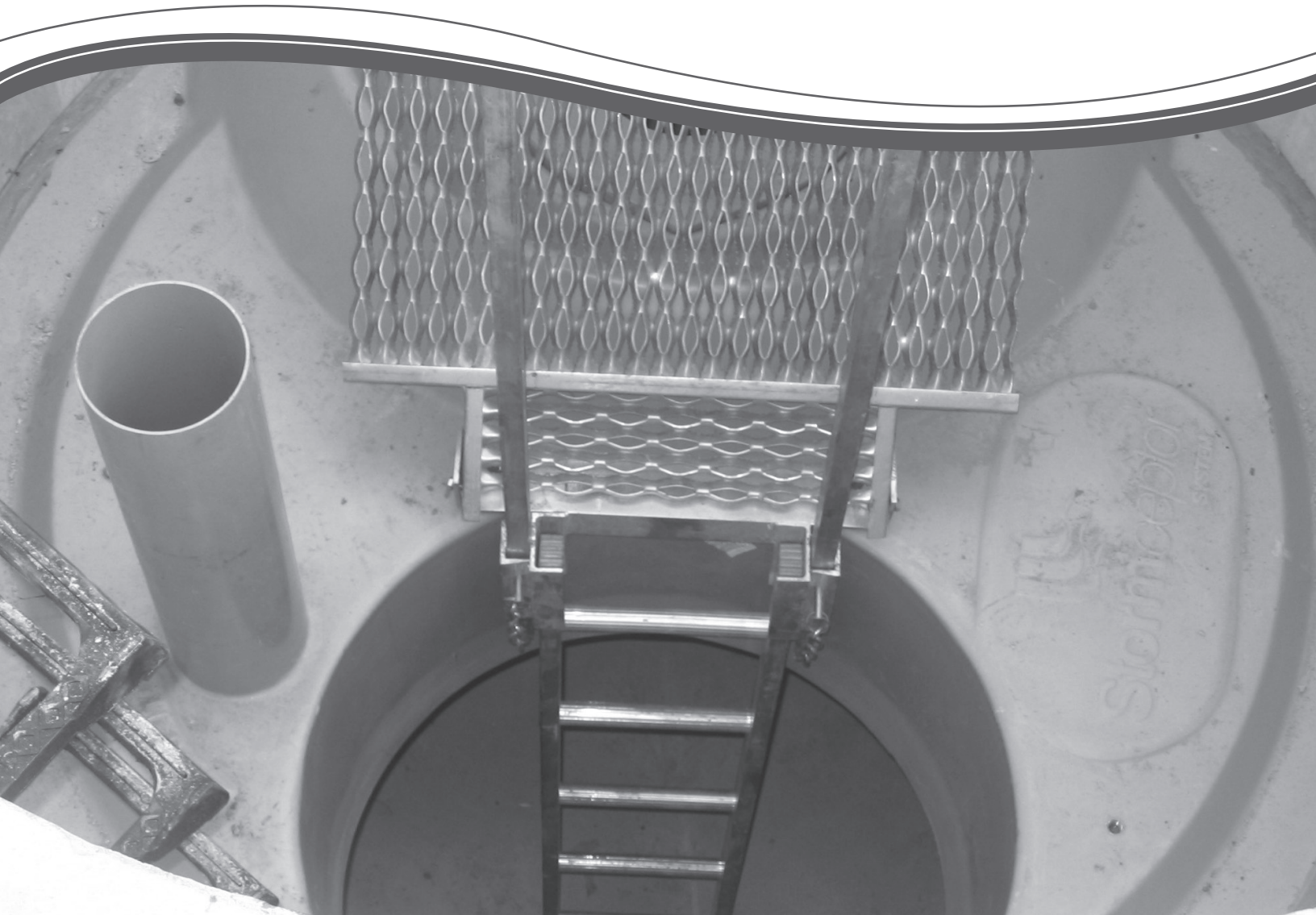
SAMPLE MAINTENANCE LOG

Date	Stadia Rod Readings		Sediment Depth (1)-(2)	Observations/Actions	Inspector
	Fixed point to chamber bottom (1)	Fixed point to top of sediment (2)			
3/15/11	6.3 ft	none		New installation. Fixed point is CI frame at grade	DJM
9/24/11		6.2	0.1 ft	Some grit felt	SM
6/20/13		5.8	0.5 ft	Mucky feel, debris visible in manhole and in Isolator Row, maintenance due	NV
7/7/13	6.3 ft		0	System jetted and vacuumed	DJM



Appendix C: Stormceptor STC Operation and Maintenance Guide

Stormceptor[®] STC Operation and Maintenance Guide



Stormceptor Design Notes

- Only the STC 450i is adaptable to function with a catch basin inlet and/or inline pipes.
- Only the Stormceptor models STC 450i to STC 7200 may accommodate multiple inlet pipes.

Inlet and outlet invert elevation differences are as follows:

Inlet and Outlet Pipe Invert Elevations Differences			
Inlet Pipe Configuration	STC 450i	STC 900 to STC 7200	STC 11000 to STC 16000
Single inlet pipe	3 in. (75 mm)	1 in. (25 mm)	3 in. (75 mm)
Multiple inlet pipes	3 in. (75 mm)	3 in. (75 mm)	Only one inlet pipe.

Maximum inlet and outlet pipe diameters:

Inlet/Outlet Configuration	Inlet Unit STC 450i	In-Line Unit STC 900 to STC 7200	Series* STC 11000 to STC 16000
Straight Through	24 inch (600 mm)	42 inch (1050 mm)	60 inch (1500 mm)
Bend (90 degrees)	18 inch (450 mm)	33 inch (825 mm)	33 inch (825 mm)

- The inlet and in-line Stormceptor units can accommodate turns to a maximum of 90 degrees.
- Minimum distance from top of grade to crown is 2 feet (0.6 m)
- Submerged conditions. A unit is submerged when the standing water elevation at the proposed location of the Stormceptor unit is greater than the outlet invert elevation during zero flow conditions. In these cases, please contact your local Stormceptor representative and provide the following information:
 - Top of grade elevation
 - Stormceptor inlet and outlet pipe diameters and invert elevations
 - Standing water elevation
 - Stormceptor head loss, $K = 1.3$ (for submerged condition, $K = 4$)



OPERATION AND MAINTENANCE GUIDE

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1. About Stormceptor

The Stormceptor® STC (Standard Treatment Cell) was developed by Imbrium™ Systems to address the growing need to remove and isolate pollution from the storm drain system before it enters the environment. The Stormceptor STC targets hydrocarbons and total suspended solids (TSS) in stormwater runoff. It improves water quality by removing contaminants through the gravitational settling of fine sediments and floatation of hydrocarbons while preventing the re-suspension or scour of previously captured pollutants.

The development of the Stormceptor STC revolutionized stormwater treatment, and created an entirely new category of environmental technology. Protecting thousands of waterways around the world, the Stormceptor System has set the standard for effective stormwater treatment.

1.1. Patent Information

The Stormceptor technology is protected by the following patents:

- Australia Patent No. 693,164 • 693,164 • 707,133 • 729,096 • 779401
- Austrian Patent No. 289647
- Canadian Patent No 2,009,208 • 2,137,942 • 2,175,277 • 2,180,305 • 2,180,383 • 2,206,338 • 2,327,768 (Pending)
- China Patent No 1168439
- Denmark DK 711879
- German DE 69534021
- Indonesian Patent No 16688
- Japan Patent No 9-11476 (Pending)
- Korea 10-2000-0026101 (Pending)
- Malaysia Patent No PI9701737 (Pending)
- New Zealand Patent No 314646
- United States Patent No 4,985,148 • 5,498,331 • 5,725,760 • 5,753,115 • 5,849,181 • 6,068,765 • 6,371,690
- Stormceptor OSR Patent Pending • Stormceptor LCS Patent Pending

2. Stormceptor Design Overview

2.1. Design Philosophy

The patented Stormceptor System has been designed to focus on the environmental objective of providing long-term pollution control. The unique and innovative Stormceptor design allows for continuous positive treatment of runoff during all rainfall events, while ensuring that all captured pollutants are retained within the system, even during intense storm events.

An integral part of the Stormceptor design is PCSWMM for Stormceptor - sizing software developed in conjunction with Computational Hydraulics Inc. (CHI) and internationally acclaimed expert, Dr. Bill James. Using local historical rainfall data and continuous simulation modeling, this software allows a Stormceptor unit to be designed for each individual site and the corresponding water quality objectives.

By using PCSWMM for Stormceptor, the Stormceptor System can be designed to remove a wide range of particles (typically from 20 to 2,000 microns), and can also be customized to remove a specific particle size distribution (PSD). The specified PSD should accurately reflect what is in the stormwater runoff to ensure the device is achieving the desired water quality objective. Since stormwater runoff contains small particles (less than 75 microns), it is important to design a treatment system to remove smaller particles in addition to coarse particles.

2.2. Benefits

The Stormceptor System removes free oil and suspended solids from stormwater, preventing spills and non-point source pollution from entering downstream lakes and rivers. The key benefits, capabilities and applications of the Stormceptor System are as follows:

- Provides continuous positive treatment during all rainfall events
- Can be designed to remove over 80% of the annual sediment load
- Removes a wide range of particles
- Can be designed to remove a specific particle size distribution (PSD)
- Captures free oil from stormwater
- Prevents scouring or re-suspension of trapped pollutants
- Pre-treatment to reduce maintenance costs for downstream treatment measures (ponds, swales, detention basins, filters)
- Groundwater recharge protection
- Spills capture and mitigation
- Simple to design and specify
- Designed to your local watershed conditions
- Small footprint to allow for easy retrofit installations
- Easy to maintain (vacuum truck)
- Multiple inlets can connect to a single unit
- Suitable as a bend structure
- Pre-engineered for traffic loading (minimum AASHTO HS-20)
- Minimal elevation drop between inlet and outlet pipes
- Small head loss
- Additional protection provided by an 18" (457 mm) fiberglass skirt below the top of the insert, for the containment of hydrocarbons in the event of a spill.

2.3. Environmental Benefit

Freshwater resources are vital to the health and welfare of their surrounding communities. There is increasing public awareness, government regulations and corporate commitment to reducing the pollution entering our waterways. A major source of this pollution originates from stormwater runoff from urban areas. Rainfall runoff carries oils, sediment and other contaminants from roads and parking lots discharging directly into our streams, lakes and coastal waterways.

The Stormceptor System is designed to isolate contaminants from getting into the natural environment. The Stormceptor technology provides protection for the environment from spills that occur at service stations and vehicle accident sites, while also removing contaminated sediment in runoff that washes from roads and parking lots.

3. Key Operation Features

3.1. Scour Prevention

A key feature of the Stormceptor System is its patented scour prevention technology. This innovation ensures pollutants are captured and retained during all rainfall events, even extreme storms. The Stormceptor System provides continuous positive treatment for all rainfall events, including intense storms. Stormceptor slows incoming runoff, controlling and reducing velocities in the lower chamber to create a non-turbulent environment that promotes free oils and floatable debris to rise and sediment to settle.

The patented scour prevention technology, the fiberglass insert, regulates flows into the lower chamber through a combination of a weir and orifice while diverting high energy flows away through the upper chamber to prevent scouring. Laboratory testing demonstrated no scouring when tested up to 125% of the unit's operating rate, with the unit loaded to 100% sediment capacity (NJDEP, 2005). Second, the depth of the lower chamber ensures the sediment storage zone is adequately separated from the path of flow in the lower chamber to prevent scouring.

3.2. Operational Hydraulic Loading Rate

Designers and regulators need to evaluate the treatment capacity and performance of manufactured stormwater treatment systems. A commonly used parameter is the "operational hydraulic loading rate" which originated as a design methodology for wastewater treatment devices.

Operational hydraulic loading rate may be calculated by dividing the flow rate into a device by its settling area. This represents the critical settling velocity that is the prime determinant to quantify the influent particle size and density captured by the device. PCSWMM for Stormceptor uses a similar parameter that is calculated by dividing the hydraulic detention time in the device by the fall distance of the sediment.

$$v_{sc} = \frac{H}{\theta_H} = \frac{Q}{A_s}$$

Where:

v_{sc} = critical settling velocity, ft/s (m/s)

H = tank depth, ft (m)

θ_H = hydraulic detention time, ft/s (m/s)

Q = volumetric flow rate, ft³/s (m³/s)

A_s = surface area, ft² (m²)

(Tchobanoglous, G. and Schroeder, E.D. 1987. Water Quality. Addison Wesley.)

Unlike designing typical wastewater devices, stormwater systems are designed for highly variable flow rates including intense peak flows. PCSWMM for Stormceptor incorporates all of the flows into its calculations, ensuring that the operational hydraulic loading rate is considered not only for one flow rate, but for all flows including extreme events.

3.3. Double Wall Containment

The Stormceptor System was conceived as a pollution identifier to assist with identifying illicit discharges. The fiberglass insert has a continuous skirt that lines the concrete barrel wall for a depth of 18 inches (457 mm) that provides double wall containment for hydrocarbons storage. This protective barrier ensures that toxic floatables do not migrate through the concrete wall into the surrounding soils.

4. Stormceptor Product Line

4.1. Stormceptor Models

A summary of Stormceptor models and capacities are listed in Table 1.

Table 1. Stormceptor Models

Stormceptor Model	Total Storage Volume U.S. Gal (L)	Hydrocarbon Storage Capacity U.S. Gal (L)	Maximum Sediment Capacity ft³ (L)
STC 450i	470 (1,780)	86 (330)	46 (1,302)
STC 900	952 (3,600)	251 (950)	89 (2,520)
STC 1200	1,234 (4,670)	251 (950)	127 (3,596)
STC 1800	1,833 (6,940)	251 (950)	207 (5,861)
STC 2400	2,462 (9,320)	840 (3,180)	205 (5,805)
STC 3600	3,715 (1,406)	840 (3,180)	373 (10,562)
STC 4800	5,059 (1,950)	909 (3,440)	543 (15,376)
STC 6000	6,136 (23,230)	909 (3,440)	687 (19,453)
STC 7200	7,420 (28,090)	1,059 (4,010)	839 (23,757)
STC 11000	11,194 (42,370)	2,797 (10, 590)	1,086 (30,752)
STC 13000	13,348 (50,530)	2,797 (10, 590)	1,374 (38,907)
STC 16000	15,918 (60,260)	3,055 (11, 560)	1,677 (47,487)

NOTE: Storage volumes may vary slightly from region to region. For detailed information, contact your local Stormceptor representative.

4.2. Inline Stormceptor

The Inline Stormceptor, Figure 1, is the standard design for most stormwater treatment applications. The patented Stormceptor design allows the Inline unit to maintain continuous positive treatment of total suspended solids (TSS) year-round, regardless of flow rate. The Inline Stormceptor is composed of a precast concrete tank with a fiberglass insert situated at the invert of the storm sewer pipe, creating an upper chamber above the insert and a lower chamber below the insert.

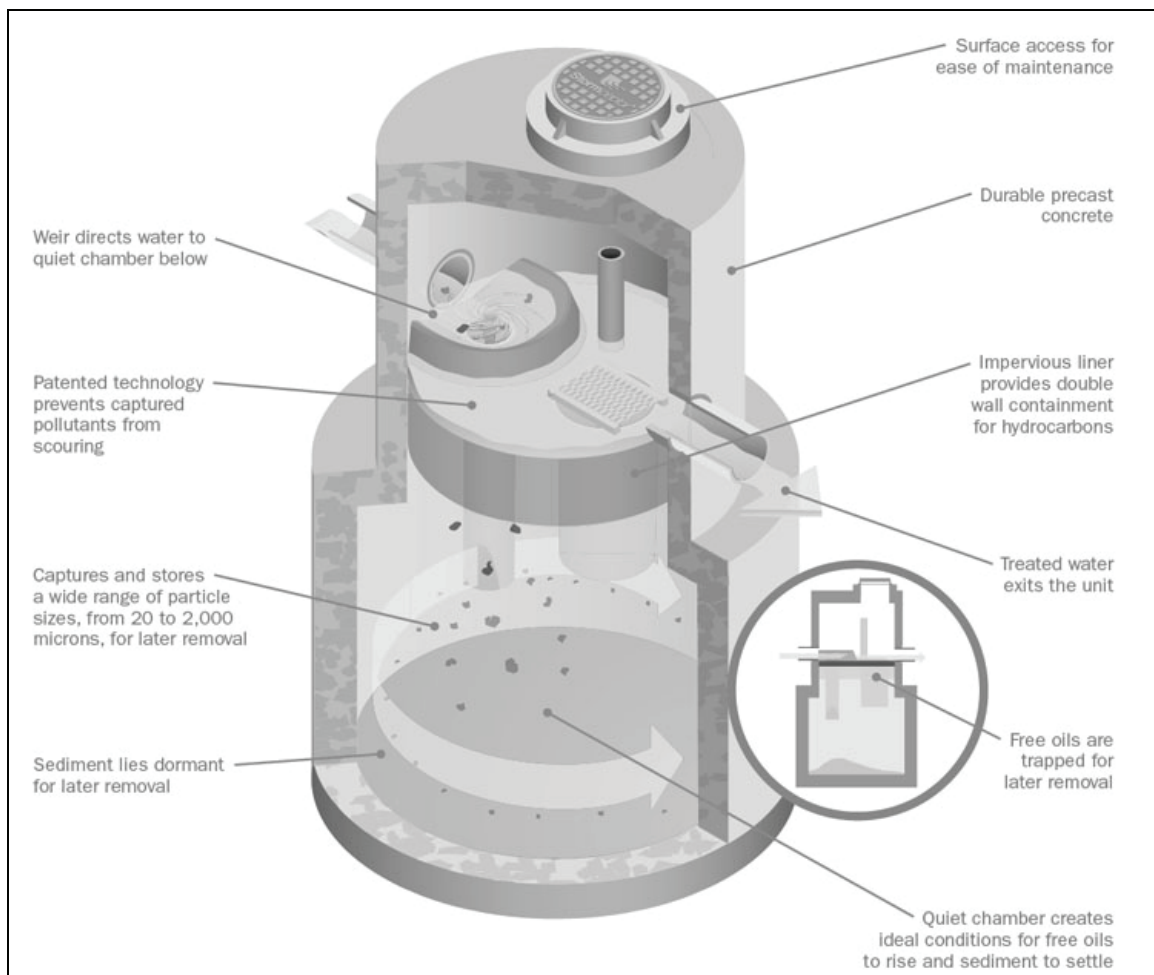


Figure 1. Inline Stormceptor

Operation

As water flows into the Stormceptor unit, it is slowed and directed to the lower chamber by a weir and drop tee. The stormwater enters the lower chamber, a non-turbulent environment, allowing free oils to rise and sediment to settle. The oil is captured underneath the fiberglass insert and shielded from exposure to the concrete walls by a fiberglass skirt. After the pollutants separate, treated water continues up a riser pipe, and exits the lower chamber on the downstream side of the weir before leaving the unit. During high flow events, the Stormceptor System's patented scour prevention technology ensures continuous pollutant removal and prevents re-suspension of previously captured pollutants.

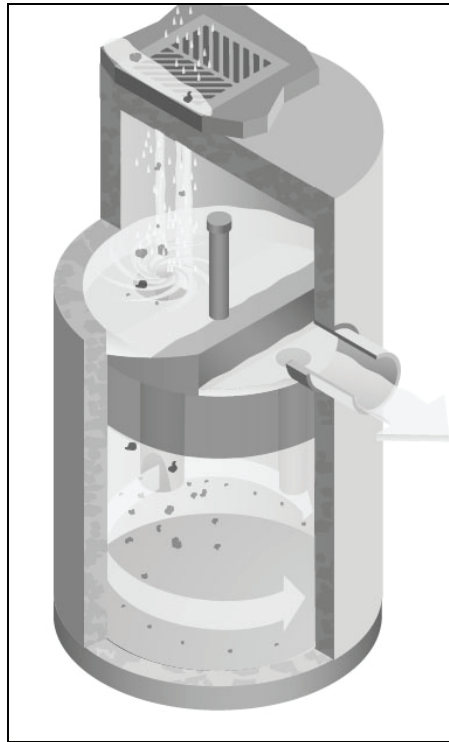


Figure 2. Inlet Stormceptor

4.3. Inlet Stormceptor

The Inlet Stormceptor System, Figure 2, was designed to provide protection for parking lots, loading bays, gas stations and other spill-prone areas. The Inlet Stormceptor is designed to remove sediment from stormwater introduced through a grated inlet, a storm sewer pipe, or both.

The Inlet Stormceptor design operates in the same manner as the Inline unit, providing continuous positive treatment, and ensuring that captured material is not re-suspended.

4.4. Series Stormceptor

Designed to treat larger drainage areas, the Series Stormceptor System, Figure 3, consists of two adjacent Stormceptor models that function in parallel. This design eliminates the need for additional structures and piping to reduce installation costs.

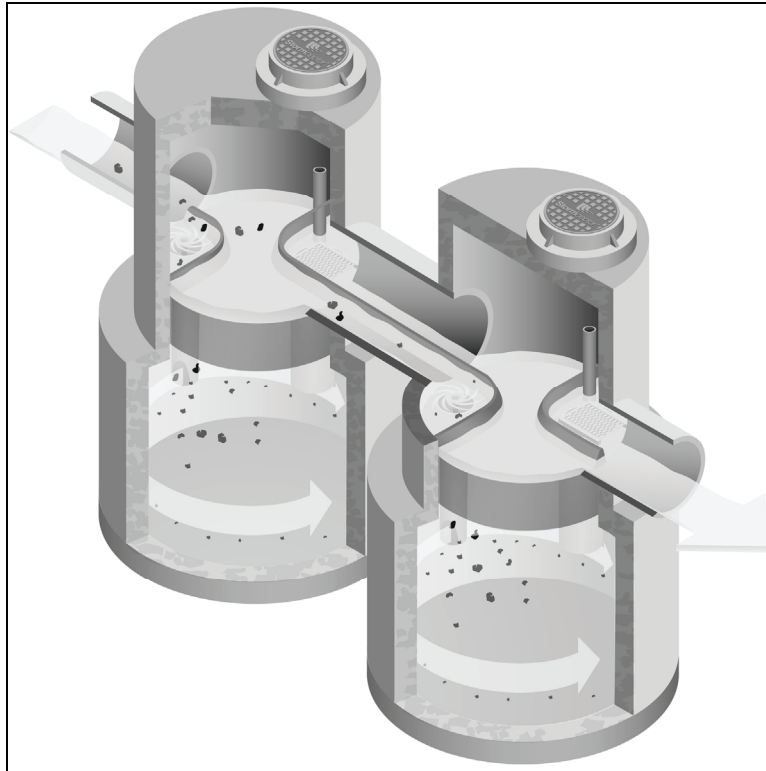


Figure 3. Series System

The Series Stormceptor design operates in the same manner as the Inline unit, providing continuous positive treatment, and ensuring that captured material is not re-suspended.

5. Sizing the Stormceptor System

The Stormceptor System is a versatile product that can be used for many different aspects of water quality improvement. While addressing these needs, there are conditions that the designer needs to be aware of in order to size the Stormceptor model to meet the demands of each individual site in an efficient and cost-effective manner.

PCSWMM for Stormceptor is the support tool used for identifying the appropriate Stormceptor model. In order to size a unit, it is recommended the user follow the seven design steps in the program. The steps are as follows:

STEP 1 – Project Details

The first step prior to sizing the Stormceptor System is to clearly identify the water quality objective for the development. It is recommended that a level of annual sediment (TSS) removal be identified and defined by a particle size distribution.

STEP 2 – Site Details

Identify the site development by the drainage area and the level of imperviousness. It is recommended that imperviousness be calculated based on the actual area of imperviousness based on paved surfaces, sidewalks and rooftops.

STEP 3 – Upstream Attenuation

The Stormceptor System is designed as a water quality device and is sometimes used in conjunction with onsite water quantity control devices such as ponds or underground detention systems. When possible, a greater benefit is typically achieved when installing a Stormceptor unit upstream of a detention facility. By placing the Stormceptor unit upstream of a detention structure, a benefit of less maintenance of the detention facility is realized.

STEP 4 – Particle Size Distribution

It is critical that the PSD be defined as part of the water quality objective. PSD is critical for the design of treatment system for a unit process of gravity settling and governs the size of a treatment system. A range of particle sizes has been provided and it is recommended that clays and silt-sized particles be considered in addition to sand and gravel-sized particles. Options and sample PSDs are provided in PCSWMM for Stormceptor. The default particle size distribution is the Fine Distribution, Table 2, option.

Table 2. Fine Distribution

Particle Size	Distribution	Specific Gravity
20	20%	1.3
60	20%	1.8
150	20%	2.2
400	20%	2.65
2000	20%	2.65

If the objective is the long-term removal of 80% of the total suspended solids on a given site, the PSD should be representative of the expected sediment on the site. For example, a system designed to remove 80% of coarse particles (greater than 75 microns) would provide relatively poor removal efficiency of finer particles that may be naturally prevalent in runoff from the site.

Since the small particle fraction contributes a disproportionately large amount of the total available particle surface area for pollutant adsorption, a system designed primarily for coarse particle capture will compromise water quality objectives.

STEP 5 – Rainfall Records

Local historical rainfall has been acquired from the U.S. National Oceanic and Atmospheric Administration, Environment Canada and regulatory agencies across North America. The rainfall data provided with PCSMM for Stormceptor provides an accurate estimation of small storm hydrology by modeling actual historical storm events including duration, intensities and peaks.

STEP 6 – Summary

At this point, the program may be executed to predict the level of TSS removal from the site. Once the simulation has completed, a table shall be generated identifying the TSS removal of each Stormceptor unit.

STEP 7 – Sizing Summary

Performance estimates of all Stormceptor units for the given site parameters will be displayed in a tabular format. The unit that meets the water quality objective, identified in Step 1, will be highlighted.

5.1. PCSWMM for Stormceptor

The Stormceptor System has been developed in conjunction with PCSWMM for Stormceptor as a technological solution to achieve water quality goals. Together, these two innovations model, simulate, predict and calculate the water quality objectives desired by a design engineer for TSS removal.

PCSWMM for Stormceptor is a proprietary sizing program which uses site specific inputs to a computer model to simulate sediment accumulation, hydrology and long-term total suspended solids removal. The model has been calibrated to field monitoring results from Stormceptor units that have been monitored in North America. The sizing methodology can be described by three processes:

1. Determination of real time hydrology
2. Buildup and wash off of TSS from impervious land areas
3. TSS transport through the Stormceptor (settling and discharge). The use of a calibrated model is the preferred method for sizing stormwater quality structures for the following reasons:
 - » The hydrology of the local area is properly and accurately incorporated in the sizing (distribution of flows, flow rate ranges and peaks, back-to-back storms, inter-event times)
 - » The distribution of TSS with the hydrology is properly and accurately considered in the sizing
 - » Particle size distribution is properly considered in the sizing
 - » The sizing can be optimized for TSS removal
 - » The cost benefit of alternate TSS removal criteria can be easily assessed
 - » The program assesses the performance of all Stormceptor models. Sizing may be selected based on a specific water quality outcome or based on the Maximum Extent Practicable

For more information regarding PCSWMM for Stormceptor, contact your local Stormceptor representative, or visit www.imbriumsystems.com to download a free copy of the program.

5.2. Sediment Loading Characteristics

The way in which sediment is transferred to stormwater can have a considerable effect on which type of system is implemented. On typical impervious surfaces (e.g. parking lots) sediment will build over time and wash off with the next rainfall. When rainfall patterns are examined, a short intense storm will have a higher concentration of sediment than a long slow drizzle. Together with rainfall data representing the site's typical rainfall patterns, sediment loading characteristics play a part in the correct sizing of a stormwater quality device.

Typical Sites

For standard site design of the Stormceptor System, PCSWMM for Stormceptor is utilized to accurately assess the unit's performance. As an integral part of the product's design, the program can be used to meet local requirements for total suspended solid removal. Typical installations of manufactured stormwater treatment devices would occur on areas such as paved parking lots or paved roads. These are considered "stable" surfaces which have non – erodible surfaces.

Unstable Sites

While standard sites consist of stable concrete or asphalt surfaces, sites such as gravel parking lots, or maintenance yards with stockpiles of sediment would be classified as "unstable". These types of sites do not exhibit first flush characteristics, are highly erodible and exhibit atypical sediment loading characteristics and must therefore be sized more carefully. Contact your local Stormceptor representative for assistance in selecting a proper unit sized for such unstable sites.

6. Spill Controls

When considering the removal of total petroleum hydrocarbons (TPH) from a storm sewer system there are two functions of the system: oil removal, and spill capture.

'Oil Removal' describes the capture of the minute volumes of free oil mobilized from impervious surfaces. In this instance relatively low concentrations, volumes and flow rates are considered. While the Stormceptor unit will still provide an appreciable oil removal function during higher flow events and/or with higher TPH concentrations, desired effluent limits may be exceeded under these conditions.

'Spill Capture' describes a manner of TPH removal more appropriate to recovery of a relatively high volume of a single phase deleterious liquid that is introduced to the storm sewer system over a relatively short duration. The two design criteria involved when considering this manner of introduction are overall volume and the specific gravity of the material. A standard Stormceptor unit will be able to capture and retain a maximum spill volume and a minimum specific gravity.

For spill characteristics that fall outside these limits, unit modifications are required. Contact your local Stormceptor Representative for more information.

One of the key features of the Stormceptor technology is its ability to capture and retain spills. While the standard Stormceptor System provides excellent protection for spill control, there are additional options to enhance spill protection if desired.

6.1. Oil Level Alarm

The oil level alarm is an electronic monitoring system designed to trigger a visual and audible alarm when a pre-set level of oil is reached within the lower chamber. As a standard, the oil

level alarm is designed to trigger at approximately 85% of the unit's available depth level for oil capture. The feature acts as a safeguard against spills caused by exceeding the oil storage capacity of the separator and eliminates the need for manual oil level inspection.

The oil level alarm installed on the Stormceptor insert is illustrated in Figure 4.

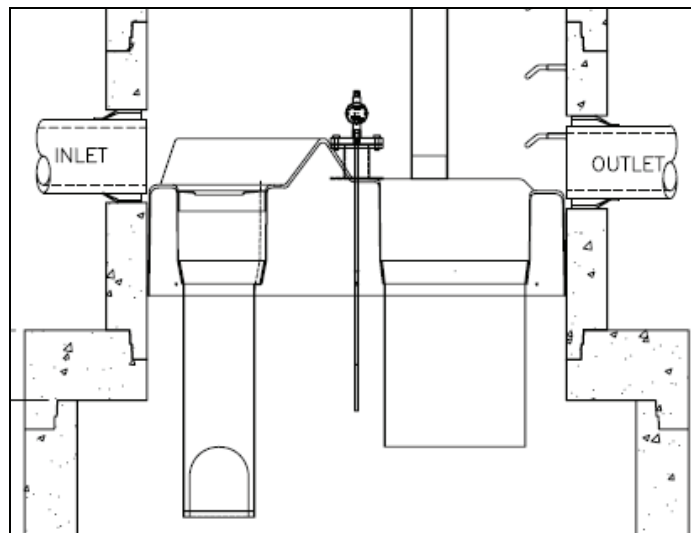


Figure 4. Oil level alarm

6.2. Increased Volume Storage Capacity

The Stormceptor unit may be modified to store a greater spill volume than is typically available. Under such a scenario, instead of installing a larger than required unit, modifications can be made to the recommended Stormceptor model to accommodate larger volumes. Contact your local Stormceptor representative for additional information and assistance for modifications.

7. Stormceptor Options

The Stormceptor System allows flexibility to incorporate to existing and new storm drainage infrastructure. The following section identifies considerations that should be reviewed when installing the system into a drainage network. For conditions that fall outside of the recommendations in this section, please contact your local Stormceptor representative for further guidance.

7.1. Installation Depth Minimum Cover

The minimum distance from the top of grade to the crown of the inlet pipe is 24 inches (600 mm). For situations that have a lower minimum distance, contact your local Stormceptor representative.

7.2. Maximum Inlet and Outlet Pipe Diameters

Maximum inlet and outlet pipe diameters are illustrated in Figure 5. Contact your local Stormceptor representative for larger pipe diameters

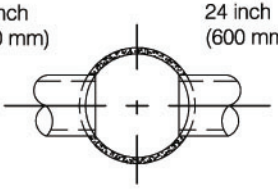
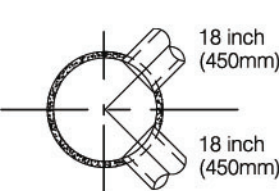
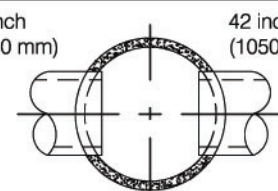
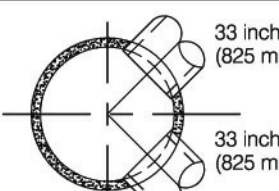
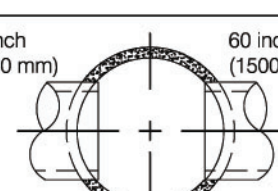
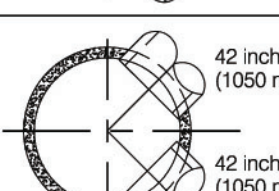
Upper Chamber Diameter	Maximum Pipe Diameters for Straight Through and 90° Bends (Based on Concrete Pipe)	
Inlet Stormceptor		
Inline Stormceptor		
Inline Stormceptor or Series Stormceptor		

Figure 5. Maximum pipe diameters for straight through and bend applications

*The bend should only be incorporated into the second structure (downstream structure) of the Series Stormceptor System

7.3. Bends

The Stormceptor System can be used to change horizontal alignment in the storm drain network up to a maximum of 90 degrees. Figure 6 illustrates the typical bend situations of the Stormceptor System. Bends should only be applied to the second structure (downstream structure) of the Series Stormceptor System.

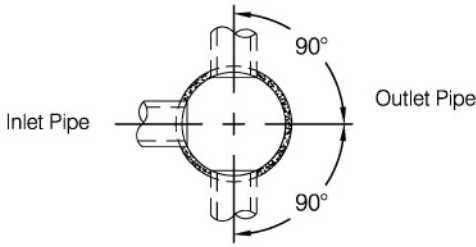
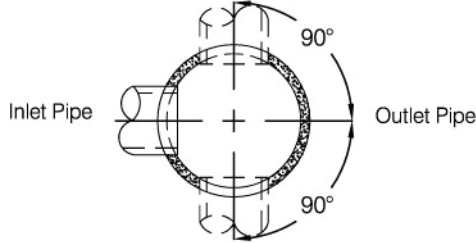
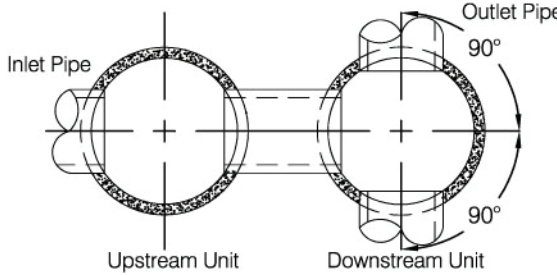
Stormceptor System	Maximum Bend Configurations
Inlet Stormceptor	
Inline Stormceptor	
Series Stormceptor	

Figure 6. Maximum bend angles

7.4. Multiple Inlet Pipes

The Inlet and Inline Stormceptor System can accommodate two or more inlet pipes. The maximum number of inlet pipes that can be accommodated into a Stormceptor unit is a function of the number, alignment and diameter of the pipes and its effects on the structural integrity of the precast concrete. When multiple inlet pipes are used for new developments, each inlet pipe shall have an invert elevation 3 inches (75 mm) higher than the outlet pipe invert elevation.

7.5. Inlet/Outlet Pipe Invert Elevations

Recommended inlet and outlet pipe invert differences are listed in Table 3.

Table 3. Recommended Drops Between Inlet and Outlet Pipe Inverts

Number of Inlet Pipes	Inlet System	In-Line System	Series System
1	3 inches (75 mm)	1 inch (25 mm)	3 inches (75 mm)
>1	3 inches (75 mm)	3 inches (75 mm)	Not Applicable

7.6. Shallow Stormceptor

In cases where there may be restrictions to the depth of burial of storm sewer systems. In this situation, for selected Stormceptor models, the lower chamber components may be increased in diameter to reduce the overall depth of excavation required.

7.7. Customized Live Load

The Stormceptor system is typically designed for local highway truck loading (AASHTO HS- 20). When the project requires live loads greater than HS-20, the Stormceptor System may be customized structurally for a pre-specified live load. Contact your local Stormceptor representative for customized loading conditions.

7.8. Pre-treatment

The Stormceptor System may be sized to remove sediment and for spills control in conjunction with other stormwater BMPs to meet the water quality objective. For pretreatment applications, the Stormceptor System should be the first unit in a treatment train. The benefits of pre-treatment include the extension of the operational life (extension of maintenance frequency) of large stormwater management facilities, prevention of spills and lower total life-cycle maintenance cost.

7.9. Head loss

The head loss through the Stormceptor System is similar to a 60 degree bend at a manhole. The K value for calculating minor losses is approximately 1.3 (minor loss = $k \cdot 1.3v^2/2g$).

However, when a Submerged modification is applied to a Stormceptor unit, the corresponding K value is 4.

7.10. Submerged

The Submerged modification, Figure 7, allows the Stormceptor System to operate in submerged or partially submerged storm sewers. This configuration can be installed on all models of the Stormceptor System by modifying the fiberglass insert. A customized weir height and a secondary drop tee are added.

Submerged instances are defined as standing water in the storm drain system during zero flow conditions. In these instances, the following information is necessary for the proper design and application of submerged modifications:

- Stormceptor top of grade elevation
- Stormceptor outlet pipe invert elevation
- Standing water elevation

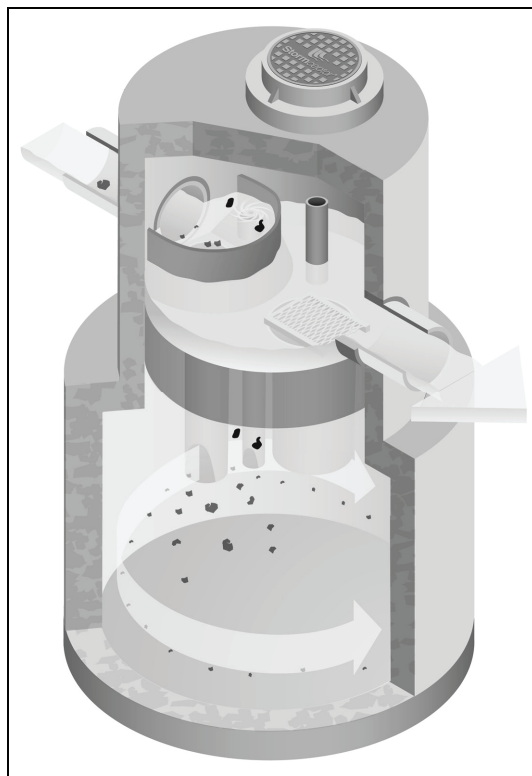


Figure 7. Submerged Stormceptor

8. Comparing Technologies

Designers have many choices available to achieve water quality goals in the treatment of stormwater runoff. Since many alternatives are available for use in stormwater quality treatment it is important to consider how to make an appropriate comparison between “approved alternatives”. The following is a guide to assist with the accurate comparison of differing technologies and performance claims.

8.1. Particle Size Distribution (PSD)

The most sensitive parameter to the design of a stormwater quality device is the selection of the design particle size. While it is recommended that the actual particle size distribution (PSD) for sites be measured prior to sizing, alternative values for particle size should be selected to represent what is likely to occur naturally on the site. A reasonable estimate of a particle size distribution likely to be found on parking lots or other impervious surfaces should consist of a wide range of particles such as 20 microns to 2,000 microns (Ontario MOE, 1994).

There is no absolute right particle size distribution or specific gravity and the user is cautioned to review the site location, characteristics, material handling practices and regulatory requirements when selecting a particle size distribution. When comparing technologies, designs using different PSDs will result in incomparable TSS removal efficiencies. The PSD of the TSS removed needs to be standard between two products to allow for an accurate comparison.

8.2. Scour Prevention

In order to accurately predict the performance of a manufactured treatment device, there must be confidence that it will perform under all conditions. Since rainfall patterns cannot be predicted, stormwater quality devices placed in storm sewer systems must be able to withstand extreme events, and ensure that all pollutants previously captured are retained in the system.

In order to have confidence in a system’s performance under extreme conditions, independent validation of scour prevention is essential when examining different technologies. Lack of independent verification of scour prevention should make a designer wary of accepting any product’s performance claims.

8.3. Hydraulics

Full scale laboratory testing has been used to confirm the hydraulics of the Stormceptor System. Results of lab testing have been used to physically design the Stormceptor System and the sewer pipes entering and leaving the unit. Key benefits of Stormceptor are:

- Low head loss (typical k value of 1.3)
- Minimal inlet/outlet invert elevation drop across the structure
- Use as a bend structure
- Accommodates multiple inlets

The adaptability of the treatment device to the storm sewer design infrastructure can affect the overall performance and cost of the site.

8.4. Hydrology

Stormwater quality treatment technologies need to perform under varying climatic conditions. These can vary from long low intensity rainfall to short duration, high intensity storms. Since a treatment device is expected to perform under all these conditions, it makes sense that any system’s design should accommodate those conditions as well.

Long-term continuous simulation evaluates the performance of a technology under the varying conditions expected in the climate of the subject site. Single, peak event design does not provide this information and is not equivalent to long-term simulation. Designers should request long-term simulation performance to ensure the technology can meet the long-term water quality objective.

9. Testing

The Stormceptor System has been the most widely monitored stormwater treatment technology in the world. Performance verification and monitoring programs are completed to the strictest standards and integrity. Since its introduction in 1990, numerous independent field tests and studies detailing the effectiveness of the Stormceptor System have been completed.

- Coventry University, UK – 97% removal of oil, 83% removal of sand and 73% removal of peat
- National Water Research Institute, Canada, - scaled testing for the development of the Stormceptor System identifying both TSS removal and scour prevention.
- New Jersey TARP Program – full scale testing of an STC 900 demonstrating 75% TSS removal of particles from 1 to 1000 microns. Scour testing completed demonstrated that the system does not scour. The New Jersey Department of Environmental Protection was followed.
- City of Indianapolis – full scale testing of an STC 900 demonstrating over 80% TSS removal of particles from 50 microns to 300 microns at 130% of the unit's operating rate. Scour testing completed demonstrated that the system does not scour.
- Westwood Massachusetts (1997), demonstrated >80% TSS removal
- Como Park (1997), demonstrated 76% TSS removal
- Ontario MOE SWAMP Program – 57% removal of 1 to 25 micron particles
- Laval Quebec – 50% removal of 1 to 25 micron particles

10. Installation

The installation of the concrete Stormceptor should conform in general to state highway, or local specifications for the installation of manholes. Selected sections of a general specification that are applicable are summarized in the following sections.

10.1. Excavation

Excavation for the installation of the Stormceptor should conform to state highway, or local specifications. Topsoil removed during the excavation for the Stormceptor should be stockpiled in designated areas and should not be mixed with subsoil or other materials.

Topsoil stockpiles and the general site preparation for the installation of the Stormceptor should conform to state highway or local specifications.

The Stormceptor should not be installed on frozen ground. Excavation should extend a minimum of 12 inches (300 mm) from the precast concrete surfaces plus an allowance for shoring and bracing where required. If the bottom of the excavation provides an unsuitable foundation additional excavation may be required.

In areas with a high water table, continuous dewatering may be required to ensure that the excavation is stable and free of water.

10.2. Backfilling

Backfill material should conform to state highway or local specifications. Backfill material should be placed in uniform layers not exceeding 12 inches (300mm) in depth and compacted to state highway or local specifications.

11. Stormceptor Construction Sequence

The concrete Stormceptor is installed in sections in the following sequence:

1. Aggregate base
2. Base slab
3. Lower chamber sections
4. Upper chamber section with fiberglass insert
5. Connect inlet and outlet pipes
6. Assembly of fiberglass insert components (drop tee, riser pipe, oil cleanout port and orifice plate)
7. Remainder of upper chamber
8. Frame and access cover

The precast base should be placed level at the specified grade. The entire base should be in contact with the underlying compacted granular material. Subsequent sections, complete with joint seals, should be installed in accordance with the precast concrete manufacturer's recommendations.

Adjustment of the Stormceptor can be performed by lifting the upper sections free of the excavated area, re-leveling the base and re-installing the sections. Damaged sections and gaskets should be repaired or replaced as necessary. Once the Stormceptor has been constructed, any lift holes must be plugged with mortar.

12. Maintenance

12.1. Health and Safety

The Stormceptor System has been designed considering safety first. It is recommended that confined space entry protocols be followed if entry to the unit is required. In addition, the fiberglass insert has the following health and safety features:

- Designed to withstand the weight of personnel
- A safety grate is located over the 24 inch (600 mm) riser pipe opening
- Ladder rungs can be provided for entry into the unit, if required

12.2. Maintenance Procedures

Maintenance of the Stormceptor system is performed using vacuum trucks. No entry into the unit is required for maintenance (in most cases). The vacuum service industry is a well-established sector of the service industry that cleans underground tanks, sewers and catch basins. Costs to clean a Stormceptor will vary based on the size of unit and transportation distances.

The need for maintenance can be determined easily by inspecting the unit from the surface. The depth of oil in the unit can be determined by inserting a dipstick in the oil inspection/cleanout port.

Similarly, the depth of sediment can be measured from the surface without entry into the Stormceptor via a dipstick tube equipped with a ball valve. This tube would be inserted through the riser pipe. Maintenance should be performed once the sediment depth exceeds the guideline values provided in the Table 4.

Table 4. Sediment Depths Indicating Required Servicing*

Particle Size	Specific Gravity
Model	Sediment Depth inches (mm)
450i	8 (200)
900	8 (200)
1200	10 (250)
1800	15 (381)
2400	12 (300)
3600	17 (430)
4800	15 (380)
6000	18 (460)
7200	15 (381)
11000	17 (380)
13000	20 (500)
16000	17 (380)
* based on 15% of the Stormceptor unit's total storage	

Although annual servicing is recommended, the frequency of maintenance may need to be increased or reduced based on local conditions (i.e. if the unit is filling up with sediment more quickly than projected, maintenance may be required semi-annually; conversely once the site has stabilized maintenance may only be required every two or three years).

Oil is removed through the oil inspection/cleanout port and sediment is removed through the riser pipe. Alternatively oil could be removed from the 24 inches (600 mm) opening if water is removed from the lower chamber to lower the oil level below the drop pipes.

The following procedures should be taken when cleaning out Stormceptor:

1. Check for oil through the oil cleanout port
2. Remove any oil separately using a small portable pump
3. Decant the water from the unit to the sanitary sewer, if permitted by the local regulating authority, or into a separate containment tank
4. Remove the sludge from the bottom of the unit using the vacuum truck
5. Re-fill Stormceptor with water where required by the local jurisdiction

12.3. Submerged Stormceptor

Careful attention should be paid to maintenance of the Submerged Stormceptor System. In cases where the storm drain system is submerged, there is a requirement to plug both the inlet and outlet pipes to economically clean out the unit.

12.4. Hydrocarbon Spills

The Stormceptor is often installed in areas where the potential for spills is great. The Stormceptor System should be cleaned immediately after a spill occurs by a licensed liquid waste hauler.

12.5. Disposal

Requirements for the disposal of material from the Stormceptor System are similar to that of any other stormwater Best Management Practice (BMP) where permitted. Disposal options for the sediment may range from disposal in a sanitary trunk sewer upstream of a sewage treatment plant, to disposal in a sanitary landfill site. Petroleum waste products collected in the Stormceptor (free oil/chemical/fuel spills) should be removed by a licensed waste management company.

12.6. Oil Sheens

With a steady influx of water with high concentrations of oil, a sheen may be noticeable at the Stormceptor outlet. This may occur because a rainbow or sheen can be seen at very small oil concentrations (<10 mg/L). Stormceptor will remove over 98% of all free oil spills from storm sewer systems for dry weather or frequently occurring runoff events.

The appearance of a sheen at the outlet with high influent oil concentrations does not mean the unit is not working to this level of removal. In addition, if the influent oil is emulsified the Stormceptor will not be able to remove it. The Stormceptor is designed for free oil removal and not emulsified conditions.



SUPPORT

Drawings and specifications are available at www.ContechES.com.

Site-specific design support is available from our engineers.

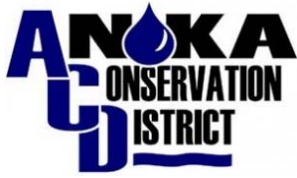
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Appendix D: ACF Rain Guardian Supplemental Information



RAIN GUARDIAN TURRET AND FOXHOLE ENGINEERING PROPERTIES

RAIN GUARDIAN TURRET:

Turret Flow Rate Capacity:

Outflow is possible through three locations. Please note the vertical filter within the chamber was assumed to be 100% clogged because its primary function is to allow the chamber to dry out between rain events.

- 1) Filter overflow – water can pass between the top of the filter and the bottom of the metal grate; calculated using the continuity equation (i.e. $Q=V*A$)
- 2) Grate overflow – water can pass through the top metal grate beyond the vertical filter wall; calculated using an orifice equation (i.e. $Q=0.0108*A*\sqrt{d}$)
- 3) High volume overflow – water can overtop the front debris wall onto the splash pad; calculated using a standard broad crested weir equation (i.e. $Q=C*L*H^{(3/2)}$)

Filter overflow – 0.45 CFS

Grate overflow – 2.59 CFS

Emergency overflow - 0.41 CFS

TOTAL: 3.45 CFS

Turret Internal Storage Vol: (i.e. storage capacity below the top of the filter wall): **4.02 ft³**

RAIN GUARDIAN FOXHOLE:

Below are the flow and storage data for the Rain Guardian Foxhole with an inlet, middle, and outlet (i.e. 6' top lid). (the addition of mid section (for longer units) would improve the sediment storage capacity).

Foxhole Flow Rate Capacity:

Outflow is possible through three locations. Please note the vertical filter within the chamber was assumed to be 100% clogged because its primary function is to allow the chamber to dry out between rain events.

- 1) Filter overflow – water can pass between the top of the filter and the bottom of the metal grate; calculated using the continuity equation (i.e. $Q=V*A$)

2) Grate overflow – water can pass through the top metal grate beyond the vertical filter wall; calculated using an orifice equation (i.e. $Q=0.0108*A*\sqrt{d}$)

3) High volume overflow – water can overtop the front debris wall onto the splash pad; calculated using a standard broad crested weir equation (i.e. $Q=C*L*H^{(3/2)}$)

Filter overflow – 0.30 CFS

Grate overflow – 2.69 CFS

Emergency overflow - 0.52 CFS

TOTAL: 3.51 CFS

Foxhole Internal Storage Volume (i.e. storage capacity below the top of the filter wall):

Inlet + Outlet: 2.0 ft³

Middle: 2.65 ft³

TOTAL: 4.65 ft³

From: [Lee Jones](#)
To: [Patrick Bogle](#)
Subject: FW: ACF Environmental - Rain Guardians
Date: Friday, December 4, 2020 9:30:52 AM
Attachments: [2017.11.21 Flow Data.pdf](#)

Patrick,
Good morning
Great talking with you yesterday.
Per our discussion, I have reviewed the study.
The study was performed by flow rates which are shown and not by storm events.
I am also attaching the Flow Data pdf.

- [Rain Guardian Gross Solids and Sediment Removal Report](#)
 - Bunker sediment capture – 75.6% at 0.5 CFS and 91.7% at 0.25 CFS
 - Bunker gross solids capture – 61.4% at 0.5 CFS and 78.8% at 0.25 CFS
 - Turret sediment capture – 79.1% at 0.5 CFS and 88.4% at 0.25 CFS
 - Turret gross solids capture – 72.4% at 0.5 CFS and 86.7% at 0.25 CFS
 - NOTE: Grass and rock lined inlets were also tested and achieved similar removal efficiencies. While the grass lined inlet and rock lined inlets removed similar amounts of sediment under the flow rates tested, the ease of maintenance, long-term effectiveness, storage capacity, and stability of the Rain Guardians set them apart from the grass and rock. The 'Maintenance Considerations' section (5.4) on pages 65 – 68 of the report highlights some advantages of the Rain Guardian products.

Please let me know if I can be of help
Best regards,
Lee

Leland (Lee) Jones, QSM
BMP Specialist – New England
ACF Environmental
508-745-7052 cell
ljones@acfenv.com
www.acfenvironmental.com

"Start each day with a positive
thought and a grateful heart"

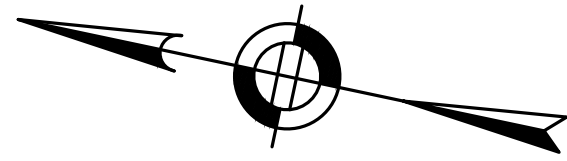
Roy T. Bennett

From: Lee Jones
Sent: Thursday, December 3, 2020 1:33 PM
To: Patrick Bogle (pbogle@hshassoc.com) <pbogle@hshassoc.com>
Subject: ACF Environmental - Rain Guardians

Patrick.
Good afternoon
It's good to hear that you are at HSH. I hope that all is going well.
I received an email that you were looking for TSS removal rates on the Rain Guardian.
Please review the information below and let me know if I can be of help



Appendix E: O&M and LTPPP Plan



HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C
Chelmsford, MA 01824
www.hshassoc.com

PREPARED FOR:

55 BH LLC
6 LYBERRY WAY, SUITE 203
WESTFORD, MA 01886

PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	PB	4/13/21	ISSUED FOR REVIEW
2	PB	9/30/22	CONFORMANCE PLANS

SITE
PLAN

OPERATIONS AND
MAINTENANCE
PLAN

DATE: JANUARY 10, 2020

PROJECT NUMBER: 19097

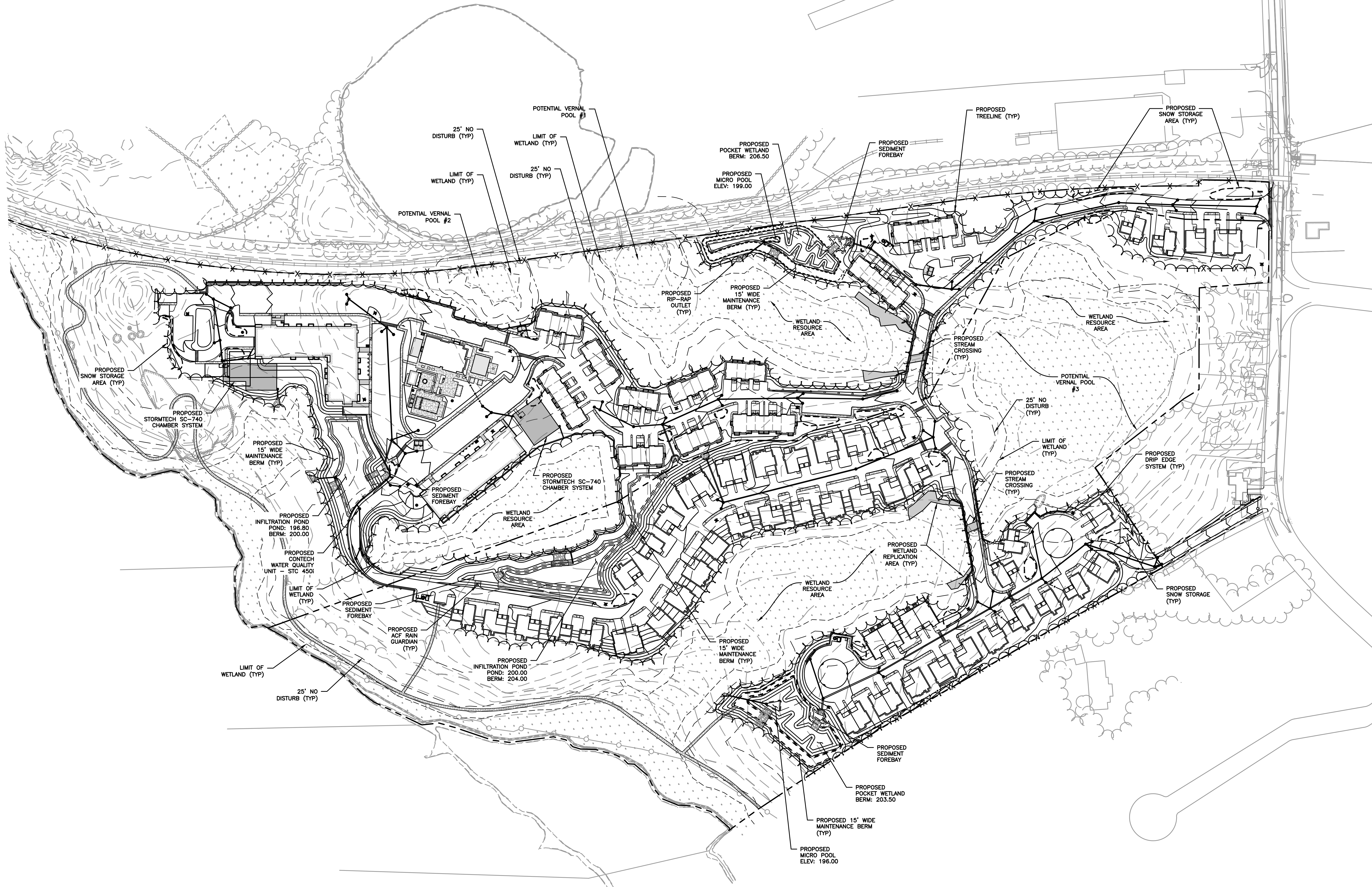
DESIGNED BY: PB/KE/KF

DRAWN BY: PB/MB/KF/KL

CHECKED BY: KE

C.1

SHEET 1 OF 1





HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C
Chelmsford, MA 01824
www.hshassoc.com

PREPARED FOR:

55 SS LLC
6 LYBERRY WAY, SUITE 203
WESTFORD, MA 01886

PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	PB	5/1/20	REV. SITE PLANS
2	PB	1/22/21	REV. DRAINAGE DESIGN
3	PB	4/13/21	REV. SITE PLANS
4	PB	10/12/22	CONFORMANCE PLANS

SITE PLAN

EXISTING
WATERSHED
PLAN

DATE: SEPTEMBER 29, 2022

PROJECT NUMBER: 19097.03

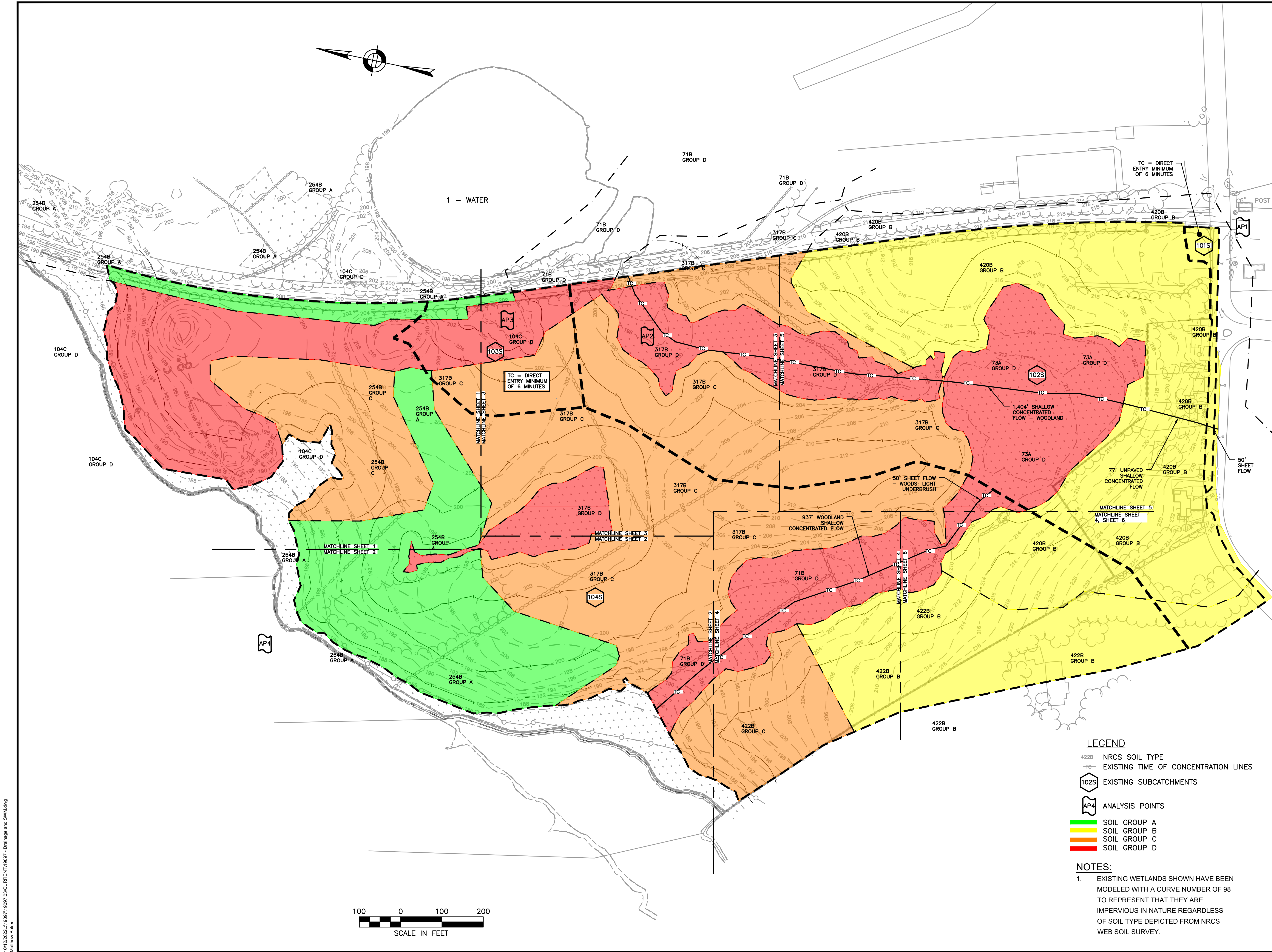
DESIGNED BY: PB/KE/KF

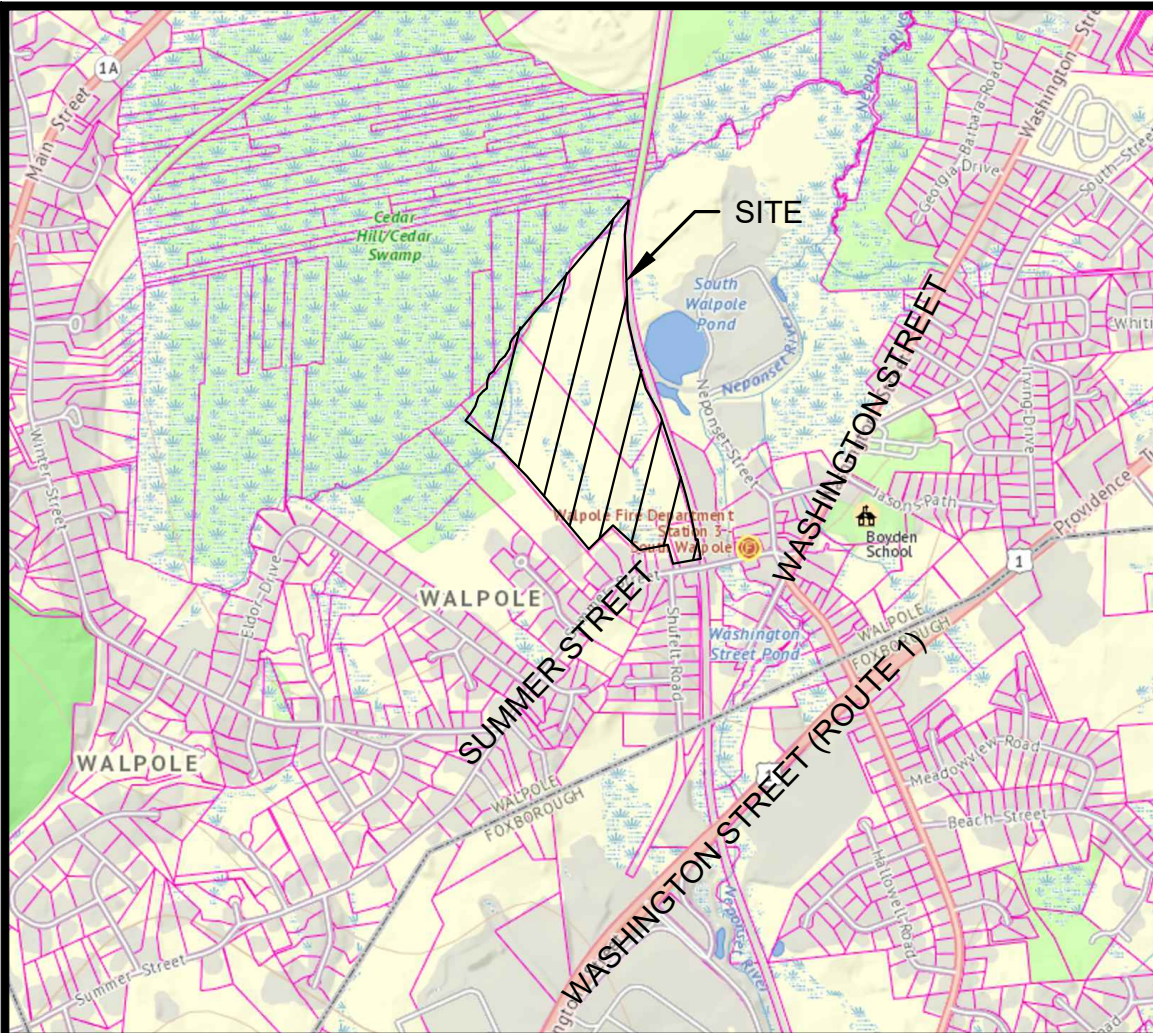
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1

SHEET 1 OF 7





LOCUS MAP
SCALE: 1"=1500'



LEGEND

- 422B NRCS SOIL TYPE
- 66- PROPOSED TIME OF CONCENTRATION LINES
- 202S PROPOSED SUBCATCHMENTS
- AP4 ANALYSIS POINTS
- SOIL GROUP A
- SOIL GROUP B
- SOIL GROUP C
- SOIL GROUP D

NOTES:

- EXISTING WETLANDS SHOWN HAVE BEEN MODELED WITH A CURVE NUMBER OF 98 TO REPRESENT THAT THEY ARE IMPERVIOUS IN NATURE REGARDLESS OF SOIL TYPE DEPICTED FROM NRCS WEB SOIL SURVEY.



HOWARD STEIN HUDSON
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www.hshassoc.com

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PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA

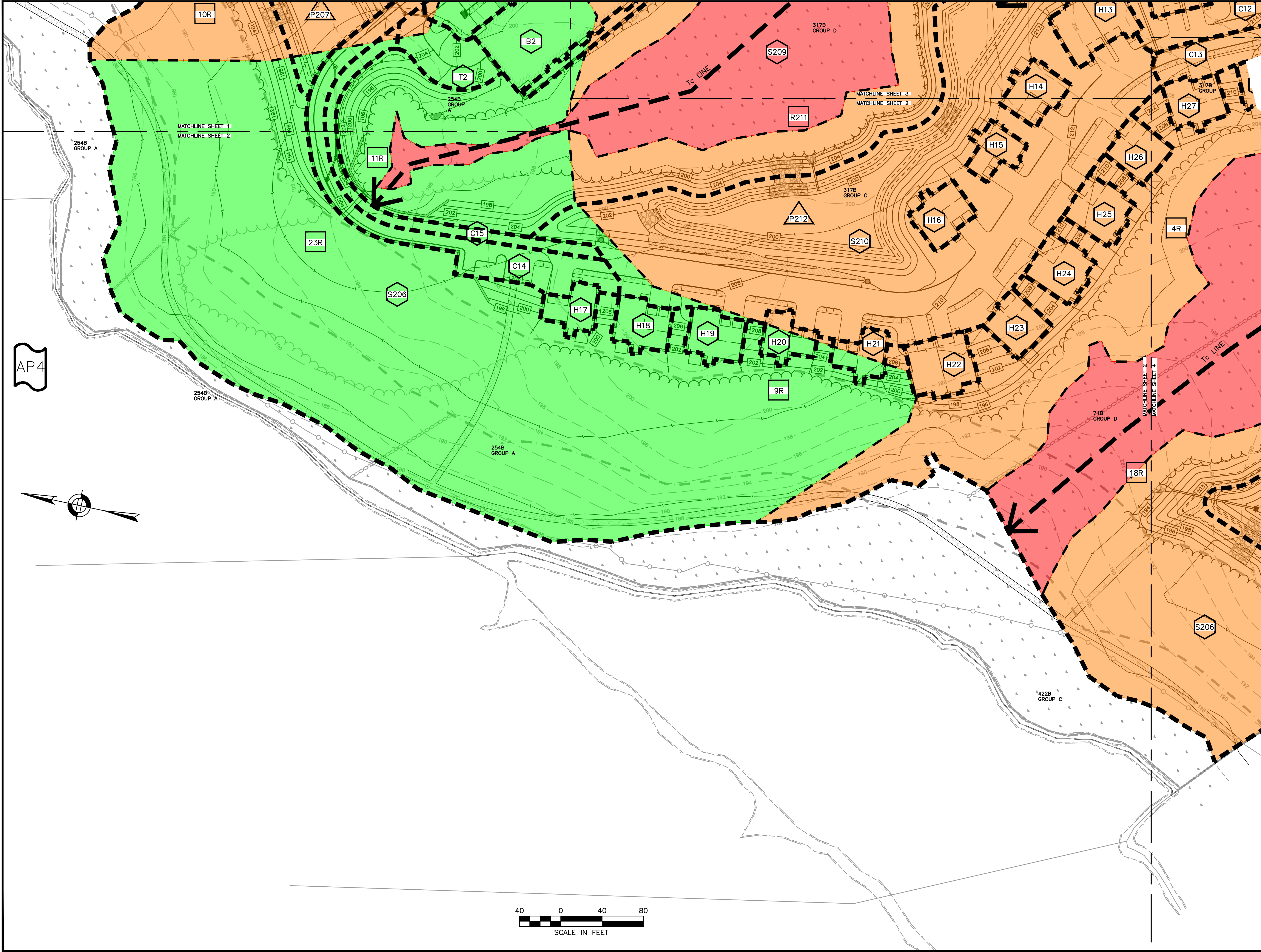
REVISIONS:

NO	BY	DATE	DESCRIPTION
1	PB	5/1/20	REV. SITE PLANS
2	PB	1/22/21	REV. DRAINAGE DESIGN
3	PB	4/13/21	REV. SITE PLANS
4	PB	10/12/22	CONFORMANCE PLANS

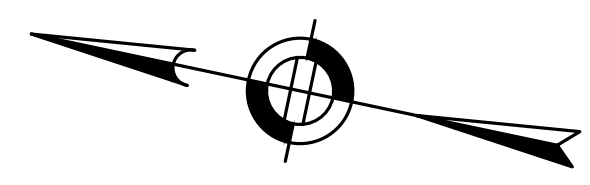
SITE PLAN

PROPOSED
WATERSHED
OVERVIEW PLAN

DATE:	SEPTEMBER 29, 2022
PROJECT NUMBER:	19097.03
DESIGNED BY:	PB/KE/KF
DRAWN BY:	PB/MB/KF/KL
CHECKED BY:	KE



AP4



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www.hshassoc.com

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WESTFORD, MA 01886

**PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA**

REVISIONS:			
NO	BY	DATE	DESCRIPTION
1	PB	5/1/20	REV. SITE PLANS
2	PB	1/22/21	REV. DRAINAGE DESIGN
3	PB	4/13/21	REV. SITE PLANS
4	PB	10/12/22	CONFORMANCE PLANS

SITE
PLAN

POST
DEVELOPMENT
DRAINAGE MAP
2 OF 6

DATE:	SEPTEMBER 29, 2022
PROJECT NUMBER:	19097.03
DESIGNED BY:	PB/KE/KF
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C.4



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PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA

REVISIONS:			
NO	BY	DATE	DESCRIPTION
1	PB	5/1/20	REV. SITE PLANS
2	PB	1/22/21	REV. DRAINAGE DESIGN
3	PB	4/13/21	REV. SITE PLANS
4	PB	10/12/22	CONFORMANCE PLANS

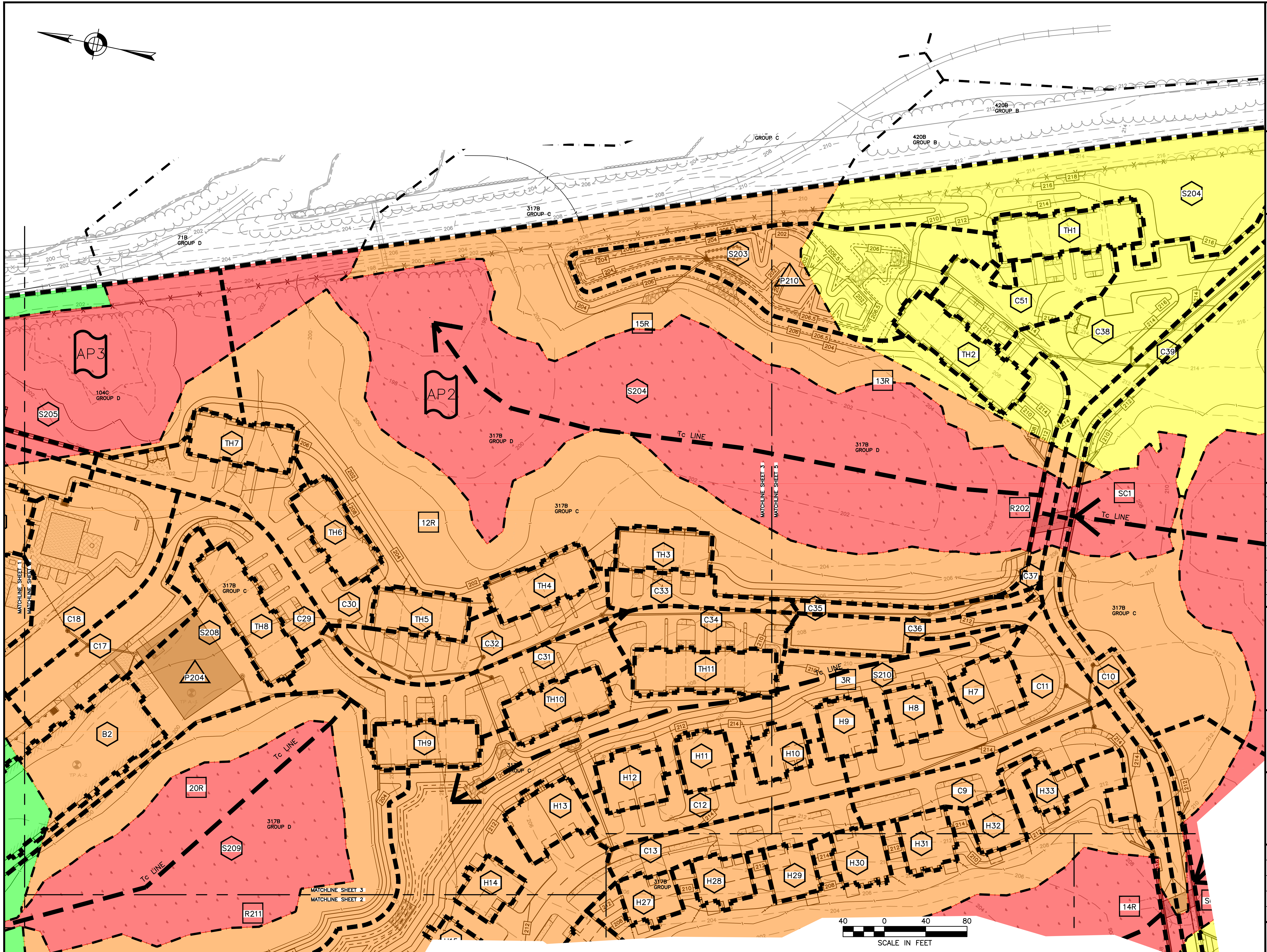
SITE PLAN

POST
DEVELOPMENT
DRAINAGE MAP
3 OF 6

CHECKED BY: KE

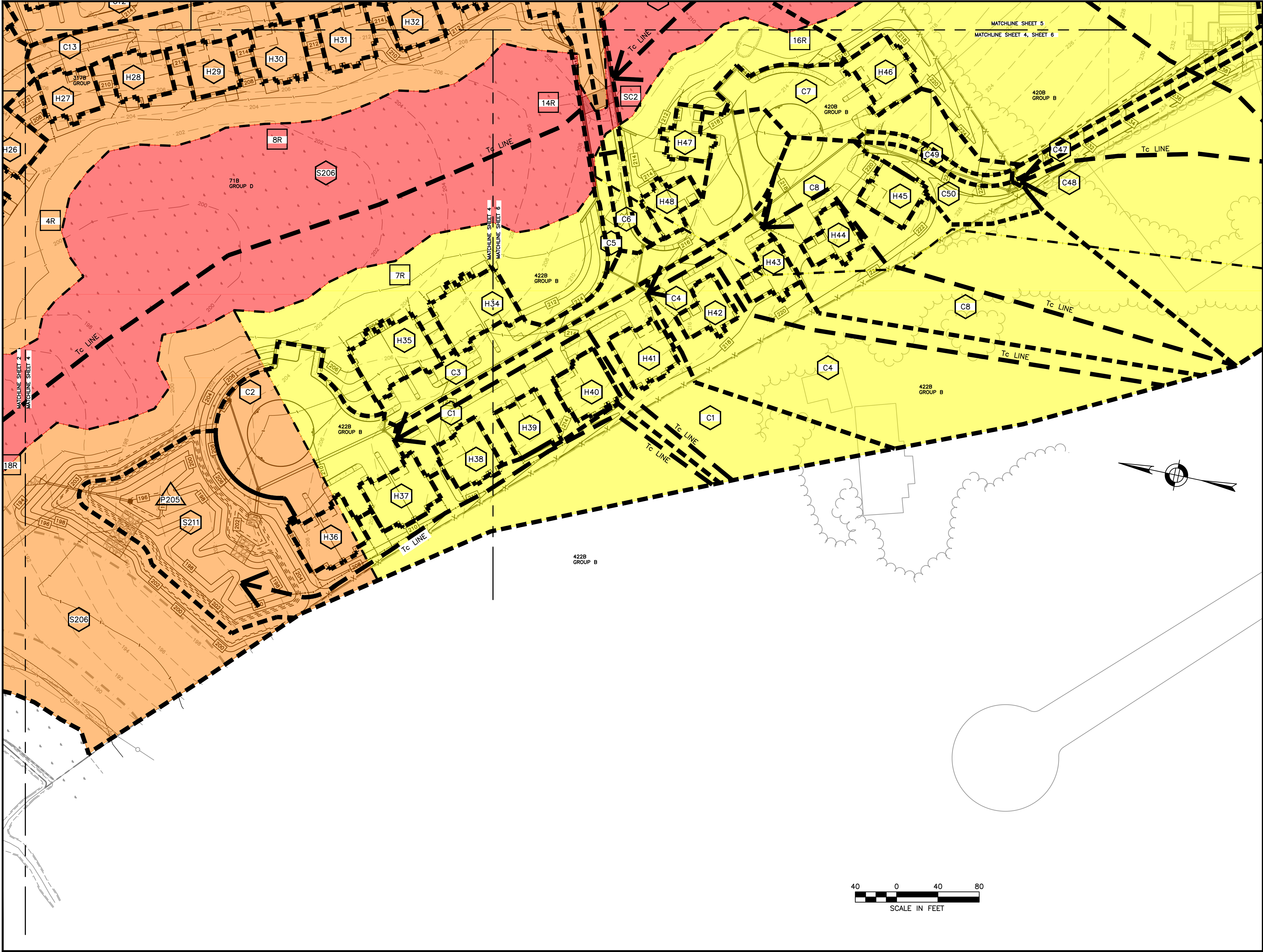
.5

SHEET 5 OF 8



0/12/2022L:1909719097.03\CURRENT\19097 - Drainage and SWM.dwg
Matthew Baker

10/12/2022, 11:09:07 AM 19097.03 CURRENT 11/19/07 - Drainage and SWM.dwg
Matthew Baker



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www.hshassoc.com

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**PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA**

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	PB	5/1/20	REV. SITE PLANS
2	PB	1/22/21	REV. DRAINAGE DESIGN
3	PB	4/13/21	REV. SITE PLANS
4	PB	10/12/22	CONFORMANCE PLANS

**SITE
PLAN**

**POST
DEVELOPMENT
DRAINAGE MAP
4 OF 6**

DATE: SEPTEMBER 29, 2022

PROJECT NUMBER: 19097.03

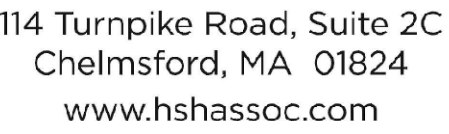
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CHECKED BY: KE

C.6

SHEET 6 OF 8



**55 SS LLC
6 LYBerty WAY, SUITE 203
WESTFORD, MA 01886**

PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA

NO	BY	DATE	DESCRIPTION
1	PB	5/1/20	REV. SITE PLANS
2	PB	1/22/21	REV. DRAINAGE DESIGN
3	PB	4/13/21	REV. SITE PLANS
4	PB	10/12/22	CONFORMANCE PLANS

SITE PLAN

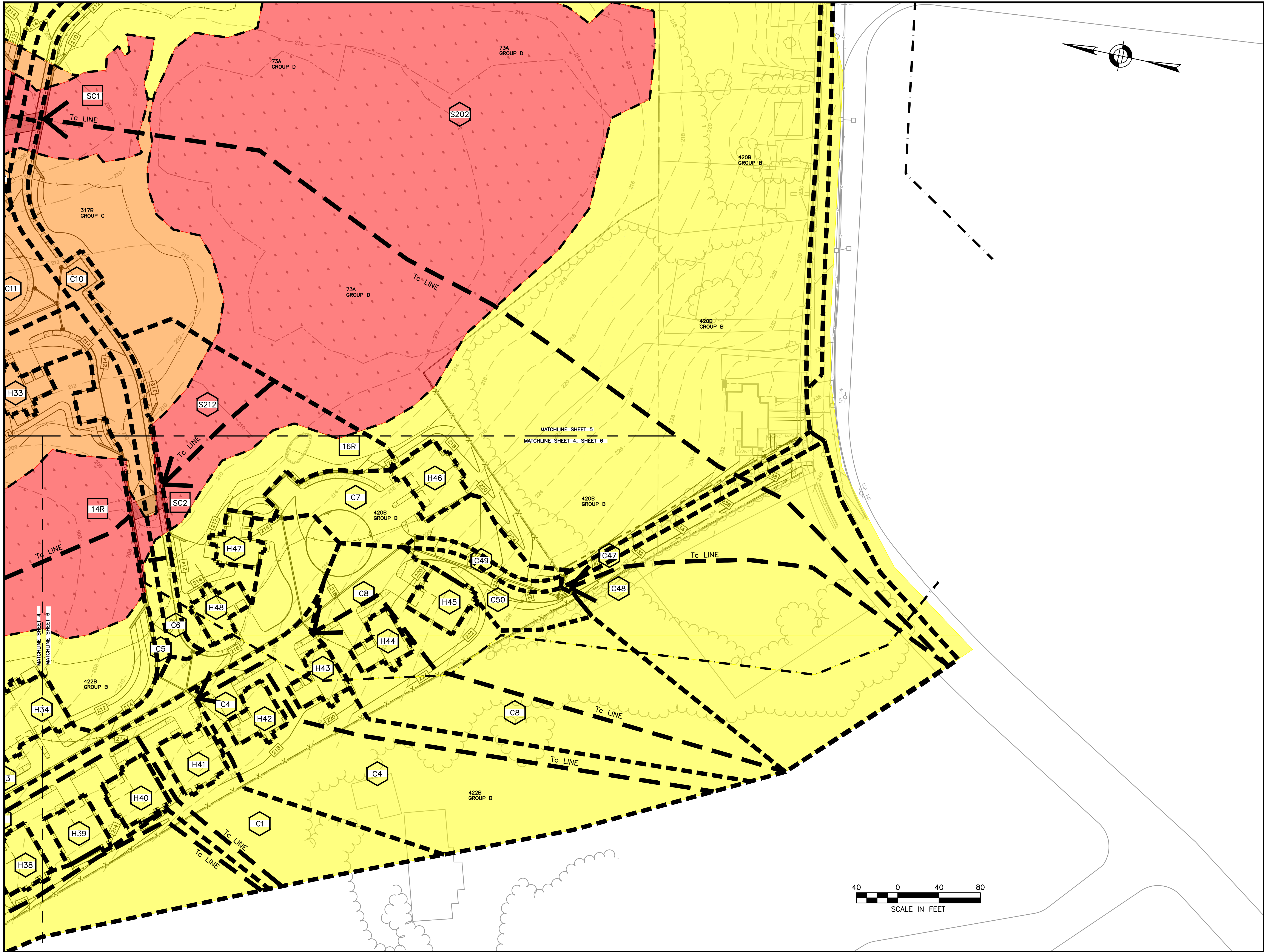
POST
DEVELOPMENT
DRAINAGE MAP
5 OF 6

C.7

SHEET 7 OF 8



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55 SS LLC
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**PROPOSED MULTIFAMILY
DEVELOPMENT
SUMMER STREET
WALPOLE, MA**

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	PB	5/1/20	REV. SITE PLANS
2	PB	1/22/21	REV. DRAINAGE DESIGN
3	PB	4/13/21	REV. SITE PLANS
4	PB	10/12/22	CONFORMANCE PLANS

SITE
PLAN

POST
DEVELOPMENT
DRAINAGE MAP
6 OF 6

DATE: SEPTEMBER 29, 2022

PROJECT NUMBER: 19097.03

DESIGNED BY: PB/KE/KF

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C.8

SHEET 8 OF 8



SUMMER STREET
(SOUTH)



ANALYSIS POINT 1



OVERLAND TO TRAIN
TRACKS (EAST)



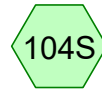
ANALYSIS POINT 2



ISOLATED WETLAND
(NORTHEAST)



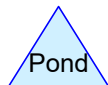
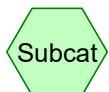
ANALYSIS POINT 3



REMAINING LAND
(NORTH - RIVER)



ANALYSIS POINT 4



Routing Diagram for 19097 Pre-Development

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Page 2

Project Notes

Rainfall events imported from "19097 Post-Development.hcp"

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Page 3

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2YR	Type III 24-hr		Default	24.00	1	3.27	2
2	10YR	Type III 24-hr		Default	24.00	1	4.96	2
3	25YR	Type III 24-hr		Default	24.00	1	6.29	2
4	100YR	Type III 24-hr		Default	24.00	1	9.06	2

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Page 4

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
143,648	68	1 acre lots, 20% imp, HSG B (102S, 104S)
549	79	1 acre lots, 20% imp, HSG C (104S)
179,555	61	>75% Grass cover, Good, HSG B (101S, 102S)
15,945	74	>75% Grass cover, Good, HSG C (102S)
3,192	80	>75% Grass cover, Good, HSG D (102S)
89,402	30	Brush, Good, HSG A (103S, 104S)
2,920	65	Brush, Good, HSG C (104S)
4,643	73	Brush, Good, HSG D (103S)
1,262	96	Gravel surface, HSG B (101S)
33,283	98	Paved parking, HSG B (101S, 102S)
448,007	98	Water Surface, 0% imp, HSG D (102S, 103S, 104S)
212,938	30	Woods, Good, HSG A (103S, 104S)
358,427	55	Woods, Good, HSG B (102S, 104S)
866,259	70	Woods, Good, HSG C (102S, 103S, 104S)
213,890	77	Woods, Good, HSG D (102S, 103S, 104S)
2,573,920	68	TOTAL AREA

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Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
302,340	HSG A	103S, 104S
716,175	HSG B	101S, 102S, 104S
885,673	HSG C	102S, 103S, 104S
669,732	HSG D	102S, 103S, 104S
0	Other	
2,573,920		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover
0	143,648	549	0	0	144,197	1 acre lots, 20% imp
0	179,555	15,945	3,192	0	198,692	>75% Grass cover, Good
89,402	0	2,920	4,643	0	96,965	Brush, Good
0	1,262	0	0	0	1,262	Gravel surface
0	33,283	0	0	0	33,283	Paved parking
0	0	0	448,007	0	448,007	Water Surface, 0% imp
212,938	358,427	866,259	213,890	0	1,651,514	Woods, Good
302,340	716,175	885,673	669,732	0	2,573,920	TOTAL AREA

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Type III 24-hr 2YR Rainfall=3.27"

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Page 7

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101S: SUMMER STREET Runoff Area=13,756 sf 64.57% Impervious Runoff Depth>2.06"
Tc=6.0 min CN=88 Runoff=0.74 cfs 2,360 cf

Subcatchment102S: OVERLANDTO Runoff Area=956,300 sf 3.58% Impervious Runoff Depth>1.07"
Flow Length=1,531' Tc=44.5 min CN=74 Runoff=12.30 cfs 85,349 cf

Subcatchment103S: ISOLATED Runoff Area=105,094 sf 0.00% Impervious Runoff Depth>0.97"
Tc=6.0 min CN=72 Runoff=2.52 cfs 8,514 cf

Subcatchment104S: REMAINING LAND Runoff Area=1,498,770 sf 1.27% Impervious Runoff Depth>0.59"
Flow Length=987' Tc=28.6 min CN=64 Runoff=10.77 cfs 73,247 cf

Link AP1: ANALYSISPOINT 1 Inflow=0.74 cfs 2,360 cf
Primary=0.74 cfs 2,360 cf

Link AP2: ANALYSISPOINT 2 Inflow=12.30 cfs 85,349 cf
Primary=12.30 cfs 85,349 cf

Link AP3: ANALYSISPOINT 3 Inflow=2.52 cfs 8,514 cf
Primary=2.52 cfs 8,514 cf

Link AP4: ANALYSISPOINT 4 Inflow=10.77 cfs 73,247 cf
Primary=10.77 cfs 73,247 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 169,469 cf Average Runoff Depth = 0.79"
97.59% Pervious = 2,511,798 sf 2.41% Impervious = 62,122 sf

19097 Pre-Development

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Type III 24-hr 2YR Rainfall=3.27"

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Page 8

Summary for Subcatchment 101S: SUMMER STREET (SOUTH)

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 2,360 cf, Depth> 2.06"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,612	61	>75% Grass cover, Good, HSG B
8,882	98	Paved parking, HSG B
1,262	96	Gravel surface, HSG B
13,756	88	Weighted Average
4,874		35.43% Pervious Area
8,882		64.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: OVERLAND TO TRAIN TRACKS (EAST)

Runoff = 12.30 cfs @ 12.66 hrs, Volume= 85,349 cf, Depth> 1.07"
 Routed to Link AP2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
175,943	61	>75% Grass cover, Good, HSG B
184,742	55	Woods, Good, HSG B
24,401	98	Paved parking, HSG B
49,311	68	1 acre lots, 20% imp, HSG B
15,945	74	>75% Grass cover, Good, HSG C
235,274	70	Woods, Good, HSG C
3,192	80	>75% Grass cover, Good, HSG D
1,550	77	Woods, Good, HSG D
265,942	98	Water Surface, 0% imp, HSG D
956,300	74	Weighted Average
922,037		96.42% Pervious Area
34,263		3.58% Impervious Area

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Type III 24-hr 2YR Rainfall=3.27"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.0800	0.26		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
0.3	77	0.0780	4.50		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
41.0	1,404	0.0130	0.57		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
44.5	1,531	Total			

Summary for Subcatchment 103S: ISOLATED WETLAND (NORTHEAST)

Runoff = 2.52 cfs @ 12.10 hrs, Volume= 8,514 cf, Depth> 0.97"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
5,813	30	Brush, Good, HSG A
1,646	30	Woods, Good, HSG A
48,198	70	Woods, Good, HSG C
4,643	73	Brush, Good, HSG D
35,989	77	Woods, Good, HSG D
8,805	98	Water Surface, 0% imp, HSG D
105,094	72	Weighted Average
105,094		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 104S: REMAINING LAND (NORTH - RIVER)

Runoff = 10.77 cfs @ 12.50 hrs, Volume= 73,247 cf, Depth> 0.59"
 Routed to Link AP4 : ANALYSIS POINT 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

19097 Pre-Development

Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
83,589	30	Brush, Good, HSG A
211,292	30	Woods, Good, HSG A
173,685	55	Woods, Good, HSG B
94,337	68	1 acre lots, 20% imp, HSG B
549	79	1 acre lots, 20% imp, HSG C
2,920	65	Brush, Good, HSG C
582,787	70	Woods, Good, HSG C
173,260	98	Water Surface, 0% imp, HSG D
176,351	77	Woods, Good, HSG D
1,498,770	64	Weighted Average
1,479,793		98.73% Pervious Area
18,977		1.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
19.4	937	0.0260	0.81		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.6	987	Total			

Summary for Link AP1: ANALYSIS POINT 1

Inflow Area = 13,756 sf, 64.57% Impervious, Inflow Depth > 2.06" for 2YR event
 Inflow = 0.74 cfs @ 12.09 hrs, Volume= 2,360 cf
 Primary = 0.74 cfs @ 12.09 hrs, Volume= 2,360 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 956,300 sf, 3.58% Impervious, Inflow Depth > 1.07" for 2YR event
 Inflow = 12.30 cfs @ 12.66 hrs, Volume= 85,349 cf
 Primary = 12.30 cfs @ 12.66 hrs, Volume= 85,349 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 105,094 sf, 0.00% Impervious, Inflow Depth > 0.97" for 2YR event
 Inflow = 2.52 cfs @ 12.10 hrs, Volume= 8,514 cf
 Primary = 2.52 cfs @ 12.10 hrs, Volume= 8,514 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Type III 24-hr 2YR Rainfall=3.27"

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Summary for Link AP4: ANALYSIS POINT 4

Inflow Area = 1,498,770 sf, 1.27% Impervious, Inflow Depth > 0.59" for 2YR event
Inflow = 10.77 cfs @ 12.50 hrs, Volume= 73,247 cf
Primary = 10.77 cfs @ 12.50 hrs, Volume= 73,247 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Type III 24-hr 10YR Rainfall=4.96"

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101S: SUMMER STREET Runoff Area=13,756 sf 64.57% Impervious Runoff Depth>3.63"
Tc=6.0 min CN=88 Runoff=1.28 cfs 4,159 cf

Subcatchment102S: OVERLANDTO Runoff Area=956,300 sf 3.58% Impervious Runoff Depth>2.31"
Flow Length=1,531' Tc=44.5 min CN=74 Runoff=27.75 cfs 184,006 cf

Subcatchment103S: ISOLATED Runoff Area=105,094 sf 0.00% Impervious Runoff Depth>2.16"
Tc=6.0 min CN=72 Runoff=5.96 cfs 18,960 cf

Subcatchment104S: REMAINING LAND Runoff Area=1,498,770 sf 1.27% Impervious Runoff Depth>1.54"
Flow Length=987' Tc=28.6 min CN=64 Runoff=33.90 cfs 192,708 cf

Link AP1: ANALYSISPOINT 1 Inflow=1.28 cfs 4,159 cf
Primary=1.28 cfs 4,159 cf

Link AP2: ANALYSISPOINT 2 Inflow=27.75 cfs 184,006 cf
Primary=27.75 cfs 184,006 cf

Link AP3: ANALYSISPOINT 3 Inflow=5.96 cfs 18,960 cf
Primary=5.96 cfs 18,960 cf

Link AP4: ANALYSISPOINT 4 Inflow=33.90 cfs 192,708 cf
Primary=33.90 cfs 192,708 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 399,833 cf Average Runoff Depth = 1.86"
97.59% Pervious = 2,511,798 sf 2.41% Impervious = 62,122 sf

19097 Pre-Development

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment 101S: SUMMER STREET (SOUTH)

Runoff = 1.28 cfs @ 12.09 hrs, Volume= 4,159 cf, Depth> 3.63"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,612	61	>75% Grass cover, Good, HSG B
8,882	98	Paved parking, HSG B
1,262	96	Gravel surface, HSG B
13,756	88	Weighted Average
4,874		35.43% Pervious Area
8,882		64.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: OVERLAND TO TRAIN TRACKS (EAST)

Runoff = 27.75 cfs @ 12.62 hrs, Volume= 184,006 cf, Depth> 2.31"
 Routed to Link AP2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
175,943	61	>75% Grass cover, Good, HSG B
184,742	55	Woods, Good, HSG B
24,401	98	Paved parking, HSG B
49,311	68	1 acre lots, 20% imp, HSG B
15,945	74	>75% Grass cover, Good, HSG C
235,274	70	Woods, Good, HSG C
3,192	80	>75% Grass cover, Good, HSG D
1,550	77	Woods, Good, HSG D
265,942	98	Water Surface, 0% imp, HSG D
956,300	74	Weighted Average
922,037		96.42% Pervious Area
34,263		3.58% Impervious Area

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Type III 24-hr 10YR Rainfall=4.96"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.0800	0.26		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
0.3	77	0.0780	4.50		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
41.0	1,404	0.0130	0.57		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
44.5	1,531	Total			

Summary for Subcatchment 103S: ISOLATED WETLAND (NORTHEAST)

Runoff = 5.96 cfs @ 12.10 hrs, Volume= 18,960 cf, Depth> 2.16"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
5,813	30	Brush, Good, HSG A
1,646	30	Woods, Good, HSG A
48,198	70	Woods, Good, HSG C
4,643	73	Brush, Good, HSG D
35,989	77	Woods, Good, HSG D
8,805	98	Water Surface, 0% imp, HSG D
105,094	72	Weighted Average
105,094		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 104S: REMAINING LAND (NORTH - RIVER)

Runoff = 33.90 cfs @ 12.44 hrs, Volume= 192,708 cf, Depth> 1.54"
 Routed to Link AP4 : ANALYSIS POINT 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
83,589	30	Brush, Good, HSG A
211,292	30	Woods, Good, HSG A
173,685	55	Woods, Good, HSG B
94,337	68	1 acre lots, 20% imp, HSG B
549	79	1 acre lots, 20% imp, HSG C
2,920	65	Brush, Good, HSG C
582,787	70	Woods, Good, HSG C
173,260	98	Water Surface, 0% imp, HSG D
176,351	77	Woods, Good, HSG D
1,498,770	64	Weighted Average
1,479,793		98.73% Pervious Area
18,977		1.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
19.4	937	0.0260	0.81		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.6	987	Total			

Summary for Link AP1: ANALYSIS POINT 1

Inflow Area = 13,756 sf, 64.57% Impervious, Inflow Depth > 3.63" for 10YR event
 Inflow = 1.28 cfs @ 12.09 hrs, Volume= 4,159 cf
 Primary = 1.28 cfs @ 12.09 hrs, Volume= 4,159 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 956,300 sf, 3.58% Impervious, Inflow Depth > 2.31" for 10YR event
 Inflow = 27.75 cfs @ 12.62 hrs, Volume= 184,006 cf
 Primary = 27.75 cfs @ 12.62 hrs, Volume= 184,006 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 105,094 sf, 0.00% Impervious, Inflow Depth > 2.16" for 10YR event
 Inflow = 5.96 cfs @ 12.10 hrs, Volume= 18,960 cf
 Primary = 5.96 cfs @ 12.10 hrs, Volume= 18,960 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Link AP4: ANALYSIS POINT 4

Inflow Area = 1,498,770 sf, 1.27% Impervious, Inflow Depth > 1.54" for 10YR event
Inflow = 33.90 cfs @ 12.44 hrs, Volume= 192,708 cf
Primary = 33.90 cfs @ 12.44 hrs, Volume= 192,708 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Type III 24-hr 25YR Rainfall=6.29"

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101S: SUMMER STREET Runoff Area=13,756 sf 64.57% Impervious Runoff Depth>4.90"
Tc=6.0 min CN=88 Runoff=1.71 cfs 5,619 cf

Subcatchment102S: OVERLANDTO Runoff Area=956,300 sf 3.58% Impervious Runoff Depth>3.40"
Flow Length=1,531' Tc=44.5 min CN=74 Runoff=41.12 cfs 270,829 cf

Subcatchment103S: ISOLATED Runoff Area=105,094 sf 0.00% Impervious Runoff Depth>3.23"
Tc=6.0 min CN=72 Runoff=8.96 cfs 28,279 cf

Subcatchment104S: REMAINING LAND Runoff Area=1,498,770 sf 1.27% Impervious Runoff Depth>2.46"
Flow Length=987' Tc=28.6 min CN=64 Runoff=56.04 cfs 306,701 cf

Link AP1: ANALYSISPOINT 1 Inflow=1.71 cfs 5,619 cf
Primary=1.71 cfs 5,619 cf

Link AP2: ANALYSISPOINT 2 Inflow=41.12 cfs 270,829 cf
Primary=41.12 cfs 270,829 cf

Link AP3: ANALYSISPOINT 3 Inflow=8.96 cfs 28,279 cf
Primary=8.96 cfs 28,279 cf

Link AP4: ANALYSISPOINT 4 Inflow=56.04 cfs 306,701 cf
Primary=56.04 cfs 306,701 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 611,428 cf Average Runoff Depth = 2.85"
97.59% Pervious = 2,511,798 sf 2.41% Impervious = 62,122 sf

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment 101S: SUMMER STREET (SOUTH)

Runoff = 1.71 cfs @ 12.09 hrs, Volume= 5,619 cf, Depth> 4.90"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,612	61	>75% Grass cover, Good, HSG B
8,882	98	Paved parking, HSG B
1,262	96	Gravel surface, HSG B
13,756	88	Weighted Average
4,874		35.43% Pervious Area
8,882		64.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: OVERLAND TO TRAIN TRACKS (EAST)

Runoff = 41.12 cfs @ 12.61 hrs, Volume= 270,829 cf, Depth> 3.40"
 Routed to Link AP2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
175,943	61	>75% Grass cover, Good, HSG B
184,742	55	Woods, Good, HSG B
24,401	98	Paved parking, HSG B
49,311	68	1 acre lots, 20% imp, HSG B
15,945	74	>75% Grass cover, Good, HSG C
235,274	70	Woods, Good, HSG C
3,192	80	>75% Grass cover, Good, HSG D
1,550	77	Woods, Good, HSG D
265,942	98	Water Surface, 0% imp, HSG D
956,300	74	Weighted Average
922,037		96.42% Pervious Area
34,263		3.58% Impervious Area

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Type III 24-hr 25YR Rainfall=6.29"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.0800	0.26		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
0.3	77	0.0780	4.50		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
41.0	1,404	0.0130	0.57		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
44.5	1,531	Total			

Summary for Subcatchment 103S: ISOLATED WETLAND (NORTHEAST)

Runoff = 8.96 cfs @ 12.09 hrs, Volume= 28,279 cf, Depth> 3.23"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
5,813	30	Brush, Good, HSG A
1,646	30	Woods, Good, HSG A
48,198	70	Woods, Good, HSG C
4,643	73	Brush, Good, HSG D
35,989	77	Woods, Good, HSG D
8,805	98	Water Surface, 0% imp, HSG D
105,094	72	Weighted Average
105,094		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 104S: REMAINING LAND (NORTH - RIVER)

Runoff = 56.04 cfs @ 12.42 hrs, Volume= 306,701 cf, Depth> 2.46"
 Routed to Link AP4 : ANALYSIS POINT 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
83,589	30	Brush, Good, HSG A
211,292	30	Woods, Good, HSG A
173,685	55	Woods, Good, HSG B
94,337	68	1 acre lots, 20% imp, HSG B
549	79	1 acre lots, 20% imp, HSG C
2,920	65	Brush, Good, HSG C
582,787	70	Woods, Good, HSG C
173,260	98	Water Surface, 0% imp, HSG D
176,351	77	Woods, Good, HSG D
1,498,770	64	Weighted Average
1,479,793		98.73% Pervious Area
18,977		1.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
19.4	937	0.0260	0.81		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.6	987	Total			

Summary for Link AP1: ANALYSIS POINT 1

Inflow Area = 13,756 sf, 64.57% Impervious, Inflow Depth > 4.90" for 25YR event
 Inflow = 1.71 cfs @ 12.09 hrs, Volume= 5,619 cf
 Primary = 1.71 cfs @ 12.09 hrs, Volume= 5,619 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 956,300 sf, 3.58% Impervious, Inflow Depth > 3.40" for 25YR event
 Inflow = 41.12 cfs @ 12.61 hrs, Volume= 270,829 cf
 Primary = 41.12 cfs @ 12.61 hrs, Volume= 270,829 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 105,094 sf, 0.00% Impervious, Inflow Depth > 3.23" for 25YR event
 Inflow = 8.96 cfs @ 12.09 hrs, Volume= 28,279 cf
 Primary = 8.96 cfs @ 12.09 hrs, Volume= 28,279 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Link AP4: ANALYSIS POINT 4

Inflow Area = 1,498,770 sf, 1.27% Impervious, Inflow Depth > 2.46" for 25YR event
Inflow = 56.04 cfs @ 12.42 hrs, Volume= 306,701 cf
Primary = 56.04 cfs @ 12.42 hrs, Volume= 306,701 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Type III 24-hr 100YR Rainfall=9.06"

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment101S: SUMMER STREET Runoff Area=13,756 sf 64.57% Impervious Runoff Depth>7.60"
Tc=6.0 min CN=88 Runoff=2.59 cfs 8,714 cf

Subcatchment102S: OVERLAND TO Runoff Area=956,300 sf 3.58% Impervious Runoff Depth>5.83"
Flow Length=1,531' Tc=44.5 min CN=74 Runoff=70.33 cfs 464,971 cf

Subcatchment103S: ISOLATED Runoff Area=105,094 sf 0.00% Impervious Runoff Depth>5.63"
Tc=6.0 min CN=72 Runoff=15.56 cfs 49,317 cf

Subcatchment104S: REMAINING LAND Runoff Area=1,498,770 sf 1.27% Impervious Runoff Depth>4.62"
Flow Length=987' Tc=28.6 min CN=64 Runoff=107.72 cfs 576,512 cf

Link AP1: ANALYSIS POINT 1 Inflow=2.59 cfs 8,714 cf
Primary=2.59 cfs 8,714 cf

Link AP2: ANALYSIS POINT 2 Inflow=70.33 cfs 464,971 cf
Primary=70.33 cfs 464,971 cf

Link AP3: ANALYSIS POINT 3 Inflow=15.56 cfs 49,317 cf
Primary=15.56 cfs 49,317 cf

Link AP4: ANALYSIS POINT 4 Inflow=107.72 cfs 576,512 cf
Primary=107.72 cfs 576,512 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 1,099,514 cf Average Runoff Depth = 5.13"
97.59% Pervious = 2,511,798 sf 2.41% Impervious = 62,122 sf

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Subcatchment 101S: SUMMER STREET (SOUTH)

Runoff = 2.59 cfs @ 12.09 hrs, Volume= 8,714 cf, Depth> 7.60"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,612	61	>75% Grass cover, Good, HSG B
8,882	98	Paved parking, HSG B
1,262	96	Gravel surface, HSG B
13,756	88	Weighted Average
4,874		35.43% Pervious Area
8,882		64.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 102S: OVERLAND TO TRAIN TRACKS (EAST)

Runoff = 70.33 cfs @ 12.60 hrs, Volume= 464,971 cf, Depth> 5.83"
 Routed to Link AP2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
175,943	61	>75% Grass cover, Good, HSG B
184,742	55	Woods, Good, HSG B
24,401	98	Paved parking, HSG B
49,311	68	1 acre lots, 20% imp, HSG B
15,945	74	>75% Grass cover, Good, HSG C
235,274	70	Woods, Good, HSG C
3,192	80	>75% Grass cover, Good, HSG D
1,550	77	Woods, Good, HSG D
265,942	98	Water Surface, 0% imp, HSG D
956,300	74	Weighted Average
922,037		96.42% Pervious Area
34,263		3.58% Impervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.0800	0.26		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
0.3	77	0.0780	4.50		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
41.0	1,404	0.0130	0.57		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
44.5	1,531	Total			

Summary for Subcatchment 103S: ISOLATED WETLAND (NORTHEAST)

Runoff = 15.56 cfs @ 12.09 hrs, Volume= 49,317 cf, Depth> 5.63"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
5,813	30	Brush, Good, HSG A
1,646	30	Woods, Good, HSG A
48,198	70	Woods, Good, HSG C
4,643	73	Brush, Good, HSG D
35,989	77	Woods, Good, HSG D
8,805	98	Water Surface, 0% imp, HSG D
105,094	72	Weighted Average
105,094		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment 104S: REMAINING LAND (NORTH - RIVER)

Runoff = 107.72 cfs @ 12.40 hrs, Volume= 576,512 cf, Depth> 4.62"
 Routed to Link AP4 : ANALYSIS POINT 4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
83,589	30	Brush, Good, HSG A
211,292	30	Woods, Good, HSG A
173,685	55	Woods, Good, HSG B
94,337	68	1 acre lots, 20% imp, HSG B
549	79	1 acre lots, 20% imp, HSG C
2,920	65	Brush, Good, HSG C
582,787	70	Woods, Good, HSG C
173,260	98	Water Surface, 0% imp, HSG D
176,351	77	Woods, Good, HSG D
1,498,770	64	Weighted Average
1,479,793		98.73% Pervious Area
18,977		1.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
19.4	937	0.0260	0.81		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.6	987	Total			

Summary for Link AP1: ANALYSIS POINT 1

Inflow Area = 13,756 sf, 64.57% Impervious, Inflow Depth > 7.60" for 100YR event
 Inflow = 2.59 cfs @ 12.09 hrs, Volume= 8,714 cf
 Primary = 2.59 cfs @ 12.09 hrs, Volume= 8,714 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 956,300 sf, 3.58% Impervious, Inflow Depth > 5.83" for 100YR event
 Inflow = 70.33 cfs @ 12.60 hrs, Volume= 464,971 cf
 Primary = 70.33 cfs @ 12.60 hrs, Volume= 464,971 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 105,094 sf, 0.00% Impervious, Inflow Depth > 5.63" for 100YR event
 Inflow = 15.56 cfs @ 12.09 hrs, Volume= 49,317 cf
 Primary = 15.56 cfs @ 12.09 hrs, Volume= 49,317 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Type III 24-hr 100YR Rainfall=9.06"

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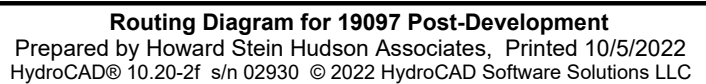
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Summary for Link AP4: ANALYSIS POINT 4

Inflow Area = 1,498,770 sf, 1.27% Impervious, Inflow Depth > 4.62" for 100YR event
Inflow = 107.72 cfs @ 12.40 hrs, Volume= 576,512 cf
Primary = 107.72 cfs @ 12.40 hrs, Volume= 576,512 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs



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Project Notes

Rainfall events imported from "19097 PreDevelopment.hcp"

Rainfall events imported from "19097 PostDevelopment-prelim.hcp"

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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2YR	Type III 24-hr		Default	24.00	1	3.27	2
2	10YR	Type III 24-hr		Default	24.00	1	4.96	2
3	25YR	Type III 24-hr		Default	24.00	1	6.29	2
4	100YR	Type III 24-hr		Default	24.00	1	9.06	2

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Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
131,280	68	1 acre lots, 20% imp, HSG B (C1, C4, C48, C8)
96,953	39	>75% Grass cover, Good, HSG A (C14, C16, C21, C23, H17, H18, H19, H20, H21, S205, S206, S207, S208, S209, S210, S213, T2)
312,320	61	>75% Grass cover, Good, HSG B (C1, C2, C3, C38, C39, C4, C41, C42, C43, C49, C50, C51, C7, C8, H1, H2, H3, H34, H35, H36, H37, H38, H39, H4, H40, H41, H42, H43, H44, H45, H46, H47, H48, H5, S201, S202, S203, S204, S206, S211, S212, TH1, TH2)
333,566	74	>75% Grass cover, Good, HSG C (C10, C11, C12, C13, C14, C16, C17, C18, C2, C20, C22, C23, C25, C28, C29, C30, C31, C32, C33, C34, C38, C39, C9, H10, H11, H12, H13, H14, H15, H16, H20, H21, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31, H32, H33, H36, H7, H8, H9, S202, S203, S204, S205, S206, S207, S208, S209, S210, S211, S212, S213, T1, T2, TH10, TH11, TH3, TH4, TH5, TH6, TH7, TH8, TH9)
34,635	80	>75% Grass cover, Good, HSG D (C22, C23, C25, C26, C28, C37, C38, C39, S202, S204, S205, S206, S212, S213, T1)
31,970	30	Brush, Good, HSG A (S206)
34,636	98	Paved parking, HSG A (C14, C15, C16, C20, C21, C23, C27, S210, S213, T2)
135,029	98	Paved parking, HSG B (C1, C10, C2, C3, C38, C39, C4, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C5, C50, C51, C6, C7, C8, C9, S201, S202, S203, S204)
166,099	98	Paved parking, HSG C (C10, C11, C12, C13, C14, C15, C16, C17, C18, C2, C20, C21, C22, C23, C25, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C9, S210, S213, T1, T2)
46,737	98	Paved parking, HSG D (C10, C22, C23, C24, C25, C26, C27, C28, C37, C38, C39, C5, C9, S213, T1)
16,070	98	Roofs, HSG A (B2, H17, H18, H19, H20, H21, S213)
54,338	98	Roofs, HSG B (H1, H2, H3, H34, H35, H36, H37, H38, H39, H4, H40, H41, H42, H43, H44, H45, H46, H47, H48, H5, TH1, TH2)
128,028	98	Roofs, HSG C (B1, B2, C18, CH1, H10, H11, H12, H13, H14, H15, H16, H20, H21, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31, H32, H33, H36, H7, H8, H9, S213, TH10, TH11, TH3, TH4, TH5, TH6, TH7, TH8, TH9)
3,659	98	Roofs, HSG D (B1)
2,453	98	Water Surface, 0% imp, HSG A (S207, S213)
1,816	98	Water Surface, 0% imp, HSG B (S203)
58,826	98	Water Surface, 0% imp, HSG C (S202, S203, S207, S210, S211, S213)
442,033	98	Water Surface, 0% imp, HSG D (S202, S204, S205, S206, S209, S212)
120,258	30	Woods, Good, HSG A (S205, S206, S209)
81,392	55	Woods, Good, HSG B (C50, S202, S204, S206, S211, S212)
199,154	70	Woods, Good, HSG C (S202, S204, S205, S206, S209, S211, S212)
142,668	77	Woods, Good, HSG D (S204, S205, S206)
2,573,920	78	TOTAL AREA

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Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
302,340	HSG A	B2, C14, C15, C16, C20, C21, C23, C27, H17, H18, H19, H20, H21, S205, S206, S207, S208, S209, S210, S213, T2
716,175	HSG B	C1, C10, C2, C3, C38, C39, C4, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C5, C50, C51, C6, C7, C8, C9, H1, H2, H3, H34, H35, H36, H37, H38, H39, H4, H40, H41, H42, H43, H44, H45, H46, H47, H48, H5, S201, S202, S203, S204, S206, S211, S212, TH1, TH2
885,673	HSG C	B1, B2, C10, C11, C12, C13, C14, C15, C16, C17, C18, C2, C20, C21, C22, C23, C25, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C9, CH1, H10, H11, H12, H13, H14, H15, H16, H20, H21, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31, H32, H33, H36, H7, H8, H9, S202, S203, S204, S205, S206, S207, S208, S209, S210, S211, S212, S213, T1, T2, TH10, TH11, TH3, TH4, TH5, TH6, TH7, TH8, TH9
669,732	HSG D	B1, C10, C22, C23, C24, C25, C26, C27, C28, C37, C38, C39, C5, C9, S202, S204, S205, S206, S209, S212, S213, T1
0	Other	
2,573,920		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Sub Num
0	131,280	0	0	0	131,280	1 acre lots, 20% imp	
96,953	312,320	333,566	34,635	0	777,474	>75% Grass cover, Good	
31,970	0	0	0	0	31,970	Brush, Good	
34,636	135,029	166,099	46,737	0	382,501	Paved parking	
16,070	54,338	128,028	3,659	0	202,095	Roofs	
2,453	1,816	58,826	442,033	0	505,128	Water Surface, 0% imp	
120,258	81,392	199,154	142,668	0	543,472	Woods, Good	
302,340	716,175	885,673	669,732	0	2,573,920	TOTAL AREA	

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	11R	194.00	193.55	30.0	0.0150	0.069	48.0	48.0	0.0
2	SC1	206.37	205.51	43.1	0.0200	0.030	192.0	60.0	0.0
3	SC2	208.52	207.64	36.5	0.0241	0.030	192.0	60.0	0.0
4	5R	197.00	196.88	24.0	0.0050	0.012	0.0	15.0	0.0
5	11P	203.25	202.94	61.0	0.0051	0.012	0.0	12.0	0.0
6	CB1	207.83	207.76	14.1	0.0050	0.013	0.0	12.0	0.0
7	CB10	209.76	209.59	33.8	0.0050	0.013	0.0	12.0	0.0
8	CB11	209.94	209.67	26.3	0.0103	0.013	0.0	12.0	0.0
9	CB12	209.69	209.62	14.0	0.0050	0.013	0.0	12.0	0.0
10	CB13	209.69	209.62	14.6	0.0048	0.013	0.0	12.0	0.0
11	CB14	200.79	200.67	23.2	0.0052	0.013	0.0	12.0	0.0
12	CB15	200.79	200.71	15.6	0.0051	0.013	0.0	12.0	0.0
13	CB16	203.47	203.33	20.9	0.0067	0.013	0.0	12.0	0.0
14	CB17	204.99	204.86	13.8	0.0094	0.013	0.0	12.0	0.0
15	CB18	204.72	204.59	25.1	0.0052	0.013	0.0	15.0	0.0
16	CB2	204.86	204.40	92.1	0.0050	0.013	0.0	12.0	0.0
17	CB20	203.97	203.81	30.3	0.0053	0.013	0.0	12.0	0.0
18	CB21	204.32	204.19	26.0	0.0050	0.013	0.0	12.0	0.0
19	CB22	205.33	205.25	16.1	0.0050	0.012	0.0	12.0	0.0
20	CB23	205.41	205.32	16.3	0.0055	0.012	0.0	12.0	0.0
21	CB24	205.21	205.15	12.1	0.0050	0.012	0.0	12.0	0.0
22	CB25	205.22	205.16	11.4	0.0053	0.012	0.0	12.0	0.0
23	CB26	201.77	201.55	42.5	0.0052	0.013	0.0	12.0	0.0
24	CB27	201.00	200.90	18.0	0.0056	0.013	0.0	12.0	0.0
25	CB28	197.75	197.69	13.7	0.0044	0.013	0.0	12.0	0.0
26	CB29	205.38	205.31	13.5	0.0052	0.013	0.0	12.0	0.0
27	CB3	207.80	207.74	10.2	0.0059	0.013	0.0	12.0	0.0
28	CB30	205.38	205.29	17.5	0.0051	0.013	0.0	12.0	0.0
29	CB31	204.19	204.11	16.4	0.0049	0.013	0.0	12.0	0.0
30	CB32	204.19	204.11	16.3	0.0049	0.013	0.0	12.0	0.0
31	CB33	205.28	205.22	11.7	0.0051	0.013	0.0	12.0	0.0
32	CB34	205.21	205.13	16.5	0.0048	0.013	0.0	12.0	0.0
33	CB35	207.04	206.96	15.2	0.0053	0.013	0.0	12.0	0.0
34	CB36	207.04	206.96	16.1	0.0050	0.013	0.0	12.0	0.0
35	CB37	209.07	208.31	77.2	0.0098	0.013	0.0	12.0	0.0
36	CB38	209.69	209.61	16.7	0.0048	0.012	0.0	12.0	0.0
37	CB39	209.69	209.61	16.4	0.0049	0.013	0.0	12.0	0.0
38	CB4	212.02	211.96	13.1	0.0046	0.012	0.0	15.0	0.0
39	CB40	213.68	213.55	26.7	0.0049	0.013	0.0	12.0	0.0
40	CB41	213.89	213.80	18.4	0.0049	0.013	0.0	12.0	0.0
41	CB42	217.91	217.47	58.1	0.0076	0.013	0.0	12.0	0.0
42	CB43	220.00	219.93	14.9	0.0047	0.013	0.0	12.0	0.0

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Pipe Listing (all nodes) (continued)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
43	CB44	220.00	219.93	14.9	0.0047	0.013	0.0	12.0	0.0
44	CB45	221.29	221.20	18.2	0.0049	0.013	0.0	12.0	0.0
45	CB46	221.53	221.45	15.3	0.0052	0.013	0.0	12.0	0.0
46	CB47	225.05	224.27	20.9	0.0373	0.012	0.0	12.0	0.0
47	CB48	224.47	224.00	16.9	0.0278	0.012	0.0	15.0	0.0
48	CB49	216.30	216.06	15.4	0.0156	0.012	0.0	12.0	0.0
49	CB5	212.11	211.96	30.5	0.0049	0.012	0.0	12.0	0.0
50	CB50	215.36	214.50	17.3	0.0497	0.012	0.0	12.0	0.0
51	CB51	209.60	209.52	16.9	0.0047	0.013	0.0	12.0	0.0
52	CB6	212.39	211.96	38.3	0.0112	0.012	0.0	12.0	0.0
53	CB7	214.60	213.68	104.0	0.0088	0.013	0.0	12.0	0.0
54	CB8	214.06	214.00	12.1	0.0050	0.013	0.0	12.0	0.0
55	CB9	210.10	209.71	19.9	0.0196	0.013	0.0	12.0	0.0
56	D1	202.90	202.78	24.6	0.0049	0.013	0.0	30.0	0.0
57	D10	203.33	203.25	15.6	0.0051	0.013	0.0	12.0	0.0
58	D11	204.25	204.03	44.6	0.0049	0.013	0.0	15.0	0.0
59	D12	203.21	203.00	41.9	0.0050	0.013	0.0	12.0	0.0
60	D13	201.95	201.65	60.1	0.0050	0.013	0.0	24.0	0.0
61	D14	204.28	203.05	246.6	0.0050	0.012	0.0	15.0	0.0
62	D16	204.90	204.38	103.5	0.0050	0.012	0.0	15.0	0.0
63	D17	200.55	197.69	91.6	0.0312	0.013	0.0	12.0	0.0
64	D18	197.44	196.98	46.3	0.0099	0.013	0.0	15.0	0.0
65	D19	205.19	204.43	82.5	0.0092	0.013	0.0	12.0	0.0
66	D2	206.29	204.41	129.9	0.0145	0.013	0.0	30.0	0.0
67	D20	204.33	204.02	63.5	0.0049	0.013	0.0	12.0	0.0
68	D21	203.02	202.66	72.4	0.0050	0.013	0.0	24.0	0.0
69	D22	204.87	203.92	134.2	0.0071	0.013	0.0	15.0	0.0
70	D23	206.70	204.97	173.3	0.0100	0.013	0.0	15.0	0.0
71	D24	208.21	207.13	140.9	0.0077	0.013	0.0	12.0	0.0
72	D25	208.50	208.10	78.6	0.0051	0.012	0.0	18.0	0.0
73	D26	207.60	206.97	127.0	0.0050	0.013	0.0	24.0	0.0
74	D27	213.30	208.48	247.1	0.0195	0.012	0.0	15.0	0.0
75	D28	217.12	213.40	189.5	0.0196	0.013	0.0	15.0	0.0
76	D29	219.83	217.54	118.4	0.0193	0.013	0.0	12.0	0.0
77	D3	210.90	206.79	282.0	0.0146	0.012	0.0	24.0	0.0
78	D30	220.92	220.00	184.2	0.0050	0.013	0.0	12.0	0.0
79	D31	223.94	214.45	158.7	0.0598	0.012	0.0	15.0	0.0
80	D32	214.25	213.64	122.0	0.0050	0.012	0.0	15.0	0.0
81	D33	206.87	206.67	39.0	0.0051	0.013	0.0	24.0	0.0
82	D34	196.78	196.53	51.0	0.0049	0.012	0.0	15.0	0.0
83	D4	212.68	211.04	131.1	0.0125	0.012	0.0	24.0	0.0
84	D5	209.09	208.17	183.0	0.0050	0.013	0.0	18.0	0.0

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Pipe Listing (all nodes) (continued)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
85	D6	208.07	206.57	299.7	0.0050	0.013	0.0	18.0	0.0
86	D7	205.97	205.46	101.8	0.0050	0.013	0.0	24.0	0.0
87	D8	200.57	200.13	87.7	0.0050	0.013	0.0	12.0	0.0
88	D9	200.03	199.97	11.9	0.0050	0.013	0.0	12.0	0.0
89	DE1	223.50	223.45	10.0	0.0050	0.013	0.0	6.0	0.0
90	DE10	213.50	213.45	10.0	0.0050	0.013	0.0	6.0	0.0
91	DE11	212.50	212.45	10.0	0.0050	0.013	0.0	6.0	0.0
92	DE12	211.70	211.65	10.0	0.0050	0.013	0.0	6.0	0.0
93	DE13	211.50	211.45	10.0	0.0050	0.013	0.0	6.0	0.0
94	DE14	209.90	209.85	10.0	0.0050	0.013	0.0	6.0	0.0
95	DE15	209.30	209.25	10.0	0.0050	0.013	0.0	6.0	0.0
96	DE16	208.80	208.75	10.0	0.0050	0.013	0.0	6.0	0.0
97	DE17	204.60	204.55	10.0	0.0050	0.013	0.0	6.0	0.0
98	DE18	206.30	206.25	10.0	0.0050	0.013	0.0	6.0	0.0
99	DE19	207.10	207.05	10.0	0.0050	0.013	0.0	6.0	0.0
100	DE2	223.00	222.95	10.0	0.0050	0.013	0.0	6.0	0.0
101	DE20	207.80	207.75	10.0	0.0050	0.013	0.0	6.0	0.0
102	DE21	208.20	208.15	10.0	0.0050	0.013	0.0	6.0	0.0
103	DE22	209.00	208.95	10.0	0.0050	0.013	0.0	6.0	0.0
104	DE23	209.50	209.45	10.0	0.0050	0.013	0.0	6.0	0.0
105	DE24	210.60	210.55	10.0	0.0050	0.013	0.0	6.0	0.0
106	DE25	210.80	210.75	10.0	0.0050	0.013	0.0	6.0	0.0
107	DE26	211.50	211.45	10.0	0.0050	0.013	0.0	6.0	0.0
108	DE27	212.10	212.05	10.0	0.0050	0.013	0.0	6.0	0.0
109	DE28	213.00	212.95	10.0	0.0050	0.013	0.0	6.0	0.0
110	DE29	213.00	212.95	10.0	0.0050	0.013	0.0	6.0	0.0
111	DE3	222.30	222.25	10.0	0.0050	0.013	0.0	6.0	0.0
112	DE30	213.25	213.20	10.0	0.0050	0.013	0.0	6.0	0.0
113	DE31	213.50	213.45	10.0	0.0050	0.013	0.0	6.0	0.0
114	DE32	212.90	212.85	10.0	0.0050	0.013	0.0	6.0	0.0
115	DE33	212.10	212.05	10.0	0.0050	0.013	0.0	6.0	0.0
116	DE34	211.80	211.75	10.0	0.0050	0.013	0.0	6.0	0.0
117	DE35	210.50	210.45	10.0	0.0050	0.013	0.0	6.0	0.0
118	DE36	208.00	207.95	10.0	0.0050	0.013	0.0	6.0	0.0
119	DE37	209.00	208.95	10.0	0.0050	0.013	0.0	6.0	0.0
120	DE38	210.50	210.45	10.0	0.0050	0.013	0.0	6.0	0.0
121	DE39	211.50	211.45	10.0	0.0050	0.013	0.0	6.0	0.0
122	DE4	220.50	220.45	10.0	0.0050	0.013	0.0	6.0	0.0
123	DE40	212.50	212.45	10.0	0.0050	0.013	0.0	6.0	0.0
124	DE41	213.50	213.45	10.0	0.0050	0.013	0.0	6.0	0.0
125	DE42	214.50	214.45	10.0	0.0050	0.013	0.0	6.0	0.0
126	DE43	215.50	215.45	10.0	0.0050	0.013	0.0	6.0	0.0

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Pipe Listing (all nodes) (continued)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
127	DE44	217.50	217.45	10.0	0.0050	0.013	0.0	6.0	0.0
128	DE45	218.50	218.45	10.0	0.0050	0.013	0.0	6.0	0.0
129	DE47	218.00	217.95	10.0	0.0050	0.013	0.0	6.0	0.0
130	DE48	216.50	216.45	10.0	0.0050	0.013	0.0	6.0	0.0
131	DE49	214.50	214.45	10.0	0.0050	0.013	0.0	6.0	0.0
132	DE5	220.10	220.05	10.0	0.0050	0.013	0.0	6.0	0.0
133	DE61	212.70	212.65	10.0	0.0050	0.013	0.0	6.0	0.0
134	DE62	212.70	212.65	10.0	0.0050	0.013	0.0	6.0	0.0
135	DE63	207.50	207.45	10.0	0.0050	0.013	0.0	6.0	0.0
136	DE64	205.50	205.45	10.0	0.0050	0.013	0.0	6.0	0.0
137	DE65	206.50	206.45	10.0	0.0050	0.013	0.0	6.0	0.0
138	DE66	208.30	208.25	10.0	0.0050	0.013	0.0	6.0	0.0
139	DE67	208.50	208.45	10.0	0.0050	0.013	0.0	6.0	0.0
140	DE68	207.50	206.00	20.0	0.0750	0.013	0.0	6.0	0.0
141	DE69	206.00	205.95	10.0	0.0050	0.013	0.0	6.0	0.0
142	DE7	212.00	211.95	10.0	0.0050	0.013	0.0	6.0	0.0
143	DE70	206.40	206.35	10.0	0.0050	0.013	0.0	6.0	0.0
144	DE71	207.00	206.95	10.0	0.0050	0.013	0.0	6.0	0.0
145	DE8	213.10	213.05	10.0	0.0050	0.013	0.0	6.0	0.0
146	DE9	213.40	213.35	10.0	0.0050	0.013	0.0	6.0	0.0
147	DECH	208.50	205.10	80.0	0.0425	0.013	0.0	4.0	0.0
148	P204	202.75	201.00	35.0	0.0500	0.012	0.0	15.0	0.0
149	P205	196.00	194.00	63.0	0.0317	0.013	0.0	18.0	0.0
150	P206	194.00	193.85	30.0	0.0050	0.013	0.0	18.0	0.0
151	P207	195.00	194.50	40.0	0.0125	0.012	0.0	15.0	0.0
152	P210	202.25	202.03	44.0	0.0050	0.013	0.0	12.0	0.0
153	P212	201.30	201.10	40.0	0.0050	0.012	0.0	12.0	0.0

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentB1: MULTIFAMILY BLDG	Runoff Area=25,099 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=1.79 cfs 6,349 cf
SubcatchmentB2: MULTIFAMILY BLDG	Runoff Area=17,602 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=1.25 cfs 4,452 cf
SubcatchmentC1: CB #1	Runoff Area=26,588 sf 32.90% Impervious Runoff Depth>1.02" Flow Length=413' Tc=16.1 min CN=73 Runoff=0.50 cfs 2,268 cf
SubcatchmentC10: CB #10	Runoff Area=9,660 sf 94.65% Impervious Runoff Depth>2.92" Tc=6.0 min CN=97 Runoff=0.68 cfs 2,354 cf
SubcatchmentC11: CB #11	Runoff Area=13,834 sf 51.04% Impervious Runoff Depth>1.89" Tc=6.0 min CN=86 Runoff=0.69 cfs 2,184 cf
SubcatchmentC12: CB #12	Runoff Area=9,596 sf 47.54% Impervious Runoff Depth>1.82" Tc=6.0 min CN=85 Runoff=0.46 cfs 1,452 cf
SubcatchmentC13: CB #13	Runoff Area=8,572 sf 67.67% Impervious Runoff Depth>2.23" Tc=6.0 min CN=90 Runoff=0.50 cfs 1,594 cf
SubcatchmentC14: CB #14	Runoff Area=12,986 sf 75.60% Impervious Runoff Depth>1.82" Tc=6.0 min CN=85 Runoff=0.62 cfs 1,965 cf
SubcatchmentC15: CB #15	Runoff Area=4,895 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.35 cfs 1,238 cf
SubcatchmentC16: CB #16	Runoff Area=8,063 sf 64.54% Impervious Runoff Depth>1.39" Tc=6.0 min CN=79 Runoff=0.29 cfs 933 cf
SubcatchmentC17: CB #17	Runoff Area=11,845 sf 77.88% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.76 cfs 2,479 cf
SubcatchmentC18: CB #18	Runoff Area=19,016 sf 66.41% Impervious Runoff Depth>2.23" Tc=6.0 min CN=90 Runoff=1.11 cfs 3,537 cf
SubcatchmentC2: CB #2	Runoff Area=19,138 sf 74.07% Impervious Runoff Depth>2.23" Tc=6.0 min CN=90 Runoff=1.11 cfs 3,559 cf
SubcatchmentC20: CB #20	Runoff Area=11,694 sf 79.49% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.75 cfs 2,447 cf
SubcatchmentC21: CB #21	Runoff Area=9,093 sf 91.54% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.58 cfs 1,903 cf
SubcatchmentC22: CB #22	Runoff Area=9,139 sf 88.07% Impervious Runoff Depth>2.82" Tc=6.0 min CN=96 Runoff=0.63 cfs 2,145 cf

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SubcatchmentC23: CB #23	Runoff Area=9,139 sf 62.65% Impervious Runoff Depth>2.14" Tc=6.0 min CN=89 Runoff=0.51 cfs 1,633 cf
SubcatchmentC24: CB #24	Runoff Area=1,933 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.14 cfs 489 cf
SubcatchmentC25: CB #25	Runoff Area=8,811 sf 96.03% Impervious Runoff Depth>2.92" Tc=6.0 min CN=97 Runoff=0.62 cfs 2,147 cf
SubcatchmentC26: CB #26	Runoff Area=14,532 sf 64.66% Impervious Runoff Depth>2.42" Tc=6.0 min CN=92 Runoff=0.90 cfs 2,925 cf
SubcatchmentC27: CB #27	Runoff Area=9,808 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.70 cfs 2,481 cf
SubcatchmentC28: CB #28	Runoff Area=10,368 sf 51.34% Impervious Runoff Depth>2.06" Tc=6.0 min CN=88 Runoff=0.56 cfs 1,778 cf
SubcatchmentC29: CB #29	Runoff Area=6,798 sf 77.21% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.43 cfs 1,423 cf
SubcatchmentC3: CB #3	Runoff Area=17,454 sf 72.05% Impervious Runoff Depth>2.06" Tc=6.0 min CN=88 Runoff=0.94 cfs 2,994 cf
SubcatchmentC30: CB #30	Runoff Area=12,141 sf 63.92% Impervious Runoff Depth>2.14" Tc=6.0 min CN=89 Runoff=0.68 cfs 2,169 cf
SubcatchmentC31: CB #31	Runoff Area=11,736 sf 71.29% Impervious Runoff Depth>2.32" Tc=6.0 min CN=91 Runoff=0.71 cfs 2,271 cf
SubcatchmentC32: CB #32	Runoff Area=10,801 sf 62.85% Impervious Runoff Depth>2.14" Tc=6.0 min CN=89 Runoff=0.61 cfs 1,930 cf
SubcatchmentC33: CB #33	Runoff Area=4,514 sf 77.96% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.29 cfs 945 cf
SubcatchmentC34: CB #34	Runoff Area=7,027 sf 72.62% Impervious Runoff Depth>2.32" Tc=6.0 min CN=91 Runoff=0.42 cfs 1,360 cf
SubcatchmentC35: CB #35	Runoff Area=2,891 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.21 cfs 731 cf
SubcatchmentC36: CB #36	Runoff Area=6,622 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.47 cfs 1,675 cf
SubcatchmentC37: CB #37	Runoff Area=1,258 sf 93.72% Impervious Runoff Depth>2.92" Tc=6.0 min CN=97 Runoff=0.09 cfs 307 cf
SubcatchmentC38: CB #38	Runoff Area=19,951 sf 77.05% Impervious Runoff Depth>2.23" Tc=6.0 min CN=90 Runoff=1.16 cfs 3,710 cf
SubcatchmentC39: CB #39	Runoff Area=7,773 sf 98.44% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.55 cfs 1,966 cf

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SubcatchmentC4: CB #4	Runoff Area=44,168 sf 23.30% Impervious Runoff Depth>0.81" Flow Length=545' Tc=21.4 min CN=69 Runoff=0.56 cfs 2,997 cf
SubcatchmentC40: CB #40	Runoff Area=4,556 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.32 cfs 1,152 cf
SubcatchmentC41: CB #41	Runoff Area=12,750 sf 69.28% Impervious Runoff Depth>1.98" Tc=6.0 min CN=87 Runoff=0.66 cfs 2,099 cf
SubcatchmentC42: CB #42	Runoff Area=11,277 sf 36.51% Impervious Runoff Depth>1.14" Tc=6.0 min CN=75 Runoff=0.33 cfs 1,072 cf
SubcatchmentC43: CB #43	Runoff Area=4,084 sf 81.61% Impervious Runoff Depth>2.32" Tc=6.0 min CN=91 Runoff=0.25 cfs 790 cf
SubcatchmentC44: CB #44	Runoff Area=1,662 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.12 cfs 420 cf
SubcatchmentC45: CB #45	Runoff Area=2,109 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.15 cfs 533 cf
SubcatchmentC46: CB #46	Runoff Area=1,371 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.10 cfs 347 cf
SubcatchmentC47: CB#47	Runoff Area=3,060 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.22 cfs 774 cf
SubcatchmentC48: CB#48	Runoff Area=60,166 sf 25.94% Impervious Runoff Depth>0.87" Flow Length=400' Tc=11.8 min CN=70 Runoff=1.03 cfs 4,345 cf
SubcatchmentC49: CB#49	Runoff Area=5,895 sf 28.14% Impervious Runoff Depth>0.92" Tc=6.0 min CN=71 Runoff=0.13 cfs 452 cf
SubcatchmentC5: CB #5	Runoff Area=1,456 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.10 cfs 368 cf
SubcatchmentC50: CB#50	Runoff Area=5,175 sf 33.29% Impervious Runoff Depth>0.97" Tc=6.0 min CN=72 Runoff=0.12 cfs 419 cf
SubcatchmentC51: CB #51	Runoff Area=9,779 sf 84.41% Impervious Runoff Depth>2.42" Tc=6.0 min CN=92 Runoff=0.61 cfs 1,968 cf
SubcatchmentC6: CB #6	Runoff Area=1,821 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.13 cfs 461 cf
SubcatchmentC7: CB #7	Runoff Area=12,883 sf 48.58% Impervious Runoff Depth>1.39" Tc=6.0 min CN=79 Runoff=0.47 cfs 1,490 cf
SubcatchmentC8: CB #8	Runoff Area=44,098 sf 25.01% Impervious Runoff Depth>0.86" Flow Length=520' Tc=18.2 min CN=70 Runoff=0.64 cfs 3,178 cf

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SubcatchmentC9: CB #9	Runoff Area=14,681 sf 77.77% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.94 cfs 3,072 cf
SubcatchmentCH1: CLUBHOUSE	Runoff Area=6,087 sf 100.00% Impervious Runoff Depth>3.04" Tc=6.0 min CN=98 Runoff=0.43 cfs 1,540 cf
SubcatchmentH1: SF #1	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.18 cfs 596 cf
SubcatchmentH10: SF #10	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 550 cf
SubcatchmentH11: SF #11	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.18 cfs 619 cf
SubcatchmentH12: SF #12	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.22 cfs 724 cf
SubcatchmentH13: SF #13	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>2.82" Tc=6.0 min CN=96 Runoff=0.28 cfs 962 cf
SubcatchmentH14: SF #14	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 550 cf
SubcatchmentH15: SF #15	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.13 cfs 418 cf
SubcatchmentH16: SF #16	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 550 cf
SubcatchmentH17: SF #17	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>2.23" Tc=6.0 min CN=90 Runoff=0.11 cfs 365 cf
SubcatchmentH18: SF #18	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.32" Tc=6.0 min CN=91 Runoff=0.16 cfs 530 cf
SubcatchmentH19: SF #19	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>2.32" Tc=6.0 min CN=91 Runoff=0.15 cfs 471 cf
SubcatchmentH2: SF #2	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>2.42" Tc=6.0 min CN=92 Runoff=0.12 cfs 387 cf
SubcatchmentH20: SF #20	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>2.23" Tc=6.0 min CN=90 Runoff=0.11 cfs 357 cf
SubcatchmentH21: SF #21	Runoff Area=1,961 sf 86.33% Impervious Runoff Depth>2.32" Tc=6.0 min CN=91 Runoff=0.12 cfs 379 cf
SubcatchmentH22: SF #22	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.22 cfs 724 cf
SubcatchmentH23: SF #23	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 527 cf

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SubcatchmentH24: SF #24	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.18 cfs 619 cf
SubcatchmentH25: SF #25	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.18 cfs 619 cf
SubcatchmentH26: SF #26	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 527 cf
SubcatchmentH27: SF #27	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 550 cf
SubcatchmentH28: SF #28	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 550 cf
SubcatchmentH29: SF #29	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 527 cf
SubcatchmentH3: SF #3	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.15 cfs 507 cf
SubcatchmentH30: SF #30	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.18 cfs 619 cf
SubcatchmentH31: SF #31	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.18 cfs 619 cf
SubcatchmentH32: SF #32	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 527 cf
SubcatchmentH33: SF #33	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.13 cfs 418 cf
SubcatchmentH34: SF #34	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.28 cfs 926 cf
SubcatchmentH35: SF #35	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.28 cfs 926 cf
SubcatchmentH36: SF #36	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.22 cfs 724 cf
SubcatchmentH37: SF #37	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.21 cfs 696 cf
SubcatchmentH38: SF #38	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.18 cfs 596 cf
SubcatchmentH39: SF #39	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.15 cfs 507 cf

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SubcatchmentH4: SF #4	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.18 cfs 596 cf
SubcatchmentH40: SF #40	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.18 cfs 596 cf
SubcatchmentH41: SF #41	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.18 cfs 596 cf
SubcatchmentH42: SF #42	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.13 cfs 410 cf
SubcatchmentH43: SF #43	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.13 cfs 410 cf
SubcatchmentH44: SF #44	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.13 cfs 410 cf
SubcatchmentH45: SF #45	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.15 cfs 507 cf
SubcatchmentH46: SF #46	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.21 cfs 696 cf
SubcatchmentH47: SF #47	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>2.42" Tc=6.0 min CN=92 Runoff=0.12 cfs 387 cf
SubcatchmentH48: SF #48	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.13 cfs 410 cf
SubcatchmentH5: SF #5	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.15 cfs 507 cf
SubcatchmentH7: SF #7	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 550 cf
SubcatchmentH8: SF #8	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.16 cfs 527 cf
SubcatchmentH9: SF #9	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.18 cfs 619 cf
SubcatchmentS201: SUMMER STREET	Runoff Area=11,582 sf 80.55% Impervious Runoff Depth>2.32" Tc=6.0 min CN=91 Runoff=0.70 cfs 2,241 cf
SubcatchmentS202: EXISTING WETLAND	Runoff Area=401,873 sf 3.47% Impervious Runoff Depth>1.32" Flow Length=1,049' Tc=21.5 min CN=78 Runoff=9.14 cfs 44,153 cf
SubcatchmentS203: POCKET WETLAND #1	Runoff Area=25,574 sf 1.29% Impervious Runoff Depth>1.08" Tc=6.0 min CN=74 Runoff=0.70 cfs 2,307 cf
SubcatchmentS204: EXISTING WETLANDS	Runoff Area=269,528 sf 0.10% Impervious Runoff Depth>1.38" Flow Length=632' Tc=22.6 min CN=79 Runoff=6.32 cfs 31,052 cf

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Subcatchment S205: ISOLATED WETLAND	Runoff Area=46,924 sf 0.00% Impervious Runoff Depth>1.03" Tc=6.0 min CN=73 Runoff=1.20 cfs 4,014 cf
Subcatchment S206: OVERLAND FLOW	Runoff Area=647,746 sf 0.00% Impervious Runoff Depth>0.63" Flow Length=795' Tc=24.3 min CN=65 Runoff=5.50 cfs 33,993 cf
Subcatchment S207: INFILTRATION POND	Runoff Area=21,058 sf 0.00% Impervious Runoff Depth>1.82" Tc=6.0 min CN=85 Runoff=1.01 cfs 3,187 cf
Subcatchment S208: GRASS AREA	Runoff Area=13,656 sf 0.00% Impervious Runoff Depth>0.97" Tc=6.0 min CN=72 Runoff=0.33 cfs 1,106 cf
Subcatchment S209: WETLAND C	Runoff Area=108,678 sf 0.00% Impervious Runoff Depth>1.02" Flow Length=550' Slope=0.0150 '/' Tc=27.3 min CN=73 Runoff=1.66 cfs 9,242 cf
Subcatchment S210: INFILTRATION	Runoff Area=114,678 sf 23.23% Impervious Runoff Depth>1.74" Flow Length=580' Slope=0.0150 '/' Tc=16.5 min CN=84 Runoff=3.89 cfs 16,587 cf
Subcatchment S211: POCKET WETLAND #2	Runoff Area=45,277 sf 0.00% Impervious Runoff Depth>1.19" Flow Length=528' Slope=0.0400 '/' Tc=22.0 min CN=76 Runoff=0.91 cfs 4,508 cf
Subcatchment S212: SWALE	Runoff Area=31,136 sf 0.00% Impervious Runoff Depth>1.26" Flow Length=150' Slope=0.0050 '/' Tc=18.8 min CN=77 Runoff=0.71 cfs 3,261 cf
Subcatchment S213: COURTYARD	Runoff Area=21,271 sf 40.78% Impervious Runoff Depth>1.52" Tc=6.0 min CN=81 Runoff=0.85 cfs 2,699 cf
Subcatchment T1: Trench Drain 1	Runoff Area=9,454 sf 79.45% Impervious Runoff Depth>2.51" Tc=6.0 min CN=93 Runoff=0.60 cfs 1,978 cf
Subcatchment T2: Drive Under B2	Runoff Area=5,585 sf 70.30% Impervious Runoff Depth>1.52" Tc=6.0 min CN=81 Runoff=0.22 cfs 709 cf
Subcatchment TH1: TOWN HOUSE #1	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.39 cfs 1,289 cf
Subcatchment TH10: TOWN HOUSE #10	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.29 cfs 962 cf
Subcatchment TH11: TOWN HOUSE #11	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.40 cfs 1,339 cf
Subcatchment TH2: TOWN HOUSE #2	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>2.61" Tc=6.0 min CN=94 Runoff=0.39 cfs 1,289 cf
Subcatchment TH3: TOWN HOUSE #3	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.23 cfs 773 cf
Subcatchment TH4: TOWN HOUSE #4	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.29 cfs 962 cf

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Subcatchment TH5: TOWN HOUSE #5	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.23 cfs 773 cf
Subcatchment TH6: TOWN HOUSE #6	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.29 cfs 962 cf
Subcatchment TH7: TOWN HOUSE #7	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.29 cfs 962 cf
Subcatchment TH8: TOWN HOUSE #8	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.40 cfs 1,339 cf
Subcatchment TH9: TOWN HOUSE #9	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>2.71" Tc=6.0 min CN=95 Runoff=0.29 cfs 962 cf
Reach 1R: OVERLAND FLOW	Avg. Flow Depth=0.01' Max Vel=0.03 fps Inflow=0.50 cfs 1,347 cf n=0.400 L=1,350.0' S=0.0133 '/' Capacity=22.21 cfs Outflow=0.02 cfs 634 cf
Reach 3R: OVERLAND FLOW	Avg. Flow Depth=0.02' Max Vel=0.04 fps Inflow=0.41 cfs 919 cf n=0.400 L=475.0' S=0.0174 '/' Capacity=20.48 cfs Outflow=0.04 cfs 790 cf
Reach 4R: OVERLAND FLOW	Avg. Flow Depth=0.03' Max Vel=0.05 fps Inflow=0.56 cfs 1,600 cf n=0.400 L=535.0' S=0.0224 '/' Capacity=30.09 cfs Outflow=0.07 cfs 1,402 cf
Reach 7R: OVERLAND FLOW	Avg. Flow Depth=0.02' Max Vel=0.04 fps Inflow=0.49 cfs 1,172 cf n=0.400 L=730.0' S=0.0247 '/' Capacity=30.21 cfs Outflow=0.04 cfs 912 cf
Reach 8R: OVERLAND FLOW	Avg. Flow Depth=0.02' Max Vel=0.04 fps Inflow=0.45 cfs 1,082 cf n=0.400 L=756.0' S=0.0238 '/' Capacity=31.01 cfs Outflow=0.03 cfs 825 cf
Reach 9R: OVERLAND FLOW	Avg. Flow Depth=0.05' Max Vel=0.10 fps Inflow=0.37 cfs 1,570 cf n=0.400 L=380.0' S=0.0368 '/' Capacity=19.23 cfs Outflow=0.12 cfs 1,499 cf
Reach 10R: OVERLAND FLOW	Avg. Flow Depth=0.00' Max Vel=0.03 fps Inflow=0.00 cfs 1 cf n=0.400 L=164.0' S=0.0366 '/' Capacity=17.57 cfs Outflow=0.00 cfs 1 cf
Reach 11R: 4x4 Open Bottom Culvert	Avg. Flow Depth=0.37' Max Vel=1.21 fps Inflow=1.79 cfs 16,009 cf 48.0" x 48.0" Box Pipe n=0.069 L=30.0' S=0.0150 '/' Capacity=42.20 cfs Outflow=1.79 cfs 16,003 cf
Reach 12R: OVERLAND FLOW	Avg. Flow Depth=0.09' Max Vel=0.12 fps Inflow=1.17 cfs 3,363 cf n=0.400 L=250.0' S=0.0240 '/' Capacity=29.80 cfs Outflow=0.53 cfs 3,283 cf
Reach 13R: OVERLAND FLOW	Avg. Flow Depth=0.02' Max Vel=0.03 fps Inflow=0.33 cfs 972 cf n=0.400 L=660.0' S=0.0152 '/' Capacity=24.73 cfs Outflow=0.03 cfs 730 cf
Reach 14R: OVERLAND FLOW	Avg. Flow Depth=0.04' Max Vel=0.07 fps Inflow=0.90 cfs 4,465 cf n=0.400 L=852.0' S=0.0246 '/' Capacity=31.55 cfs Outflow=0.16 cfs 3,743 cf
Reach 15R: OVERLAND FLOW	Avg. Flow Depth=0.05' Max Vel=0.07 fps Inflow=0.19 cfs 7,670 cf n=0.400 L=300.0' S=0.0200 '/' Capacity=27.21 cfs Outflow=0.19 cfs 6,951 cf
Reach 16R: OVERLAND FLOW	Avg. Flow Depth=0.02' Max Vel=0.04 fps Inflow=0.19 cfs 446 cf n=0.400 L=263.0' S=0.0266 '/' Capacity=31.39 cfs Outflow=0.03 cfs 429 cf

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Reach 18R: OVERLAND FLOW Avg. Flow Depth=0.12' Max Vel=0.16 fps Inflow=0.95 cfs 30,449 cf
n=0.400 L=184.0' S=0.0326 ' Capacity=36.29 cfs Outflow=0.95 cfs 30,055 cf

Reach 20R: OVERLAND FLOW Avg. Flow Depth=0.10' Max Vel=0.07 fps Inflow=0.97 cfs 6,069 cf
n=0.400 L=560.0' S=0.0093 ' Capacity=18.54 cfs Outflow=0.36 cfs 5,655 cf

Reach 23R: OVERLAND FLOW Avg. Flow Depth=0.16' Max Vel=0.15 fps Inflow=1.79 cfs 16,003 cf
n=0.400 L=237.0' S=0.0211 ' Capacity=31.93 cfs Outflow=1.31 cfs 15,641 cf

Reach R202: OVERLAND FLOW Avg. Flow Depth=0.22' Max Vel=0.13 fps Inflow=9.13 cfs 44,144 cf
n=0.400 L=700.0' S=0.0107 ' Capacity=42.56 cfs Outflow=3.08 cfs 40,612 cf

Reach R211: OVERLAND FLOW Avg. Flow Depth=0.02' Max Vel=0.03 fps Inflow=0.16 cfs 552 cf
n=0.400 L=600.0' S=0.0087 ' Capacity=14.51 cfs Outflow=0.02 cfs 403 cf

Reach SC1: Stream Crossing #1 Avg. Flow Depth=0.22' Max Vel=2.55 fps Inflow=9.14 cfs 44,153 cf
192.0" x 60.0", R=207.0" Arch Pipe n=0.030 L=43.1' S=0.0200 ' Capacity=722.91 cfs Outflow=9.13 cfs 44,144 cf

Reach SC2: Stream Crossing #2 Avg. Flow Depth=0.05' Max Vel=1.04 fps Inflow=0.78 cfs 4,010 cf
192.0" x 60.0", R=180.0" Arch Pipe n=0.030 L=36.5' S=0.0241 ' Capacity=768.96 cfs Outflow=0.78 cfs 4,009 cf

Pond 5R: TRENCH DRAIN Peak Elev=197.73' Inflow=0.60 cfs 1,978 cf
15.0" Round Culvert n=0.012 L=24.0' S=0.0050 ' Outflow=0.60 cfs 1,978 cf

Pond 11P: YARD DRAIN Peak Elev=207.33' Storage=413 cf Inflow=0.85 cfs 2,699 cf
Outflow=0.57 cfs 2,670 cf

Pond CB1: CB#1 Peak Elev=208.26' Inflow=0.50 cfs 2,268 cf
12.0" Round Culvert n=0.013 L=14.1' S=0.0050 ' Outflow=0.50 cfs 2,268 cf

Pond CB10: CB #10 Peak Elev=210.26' Inflow=0.68 cfs 2,354 cf
12.0" Round Culvert n=0.013 L=33.8' S=0.0050 ' Outflow=0.68 cfs 2,354 cf

Pond CB11: CB #11 Peak Elev=210.39' Inflow=0.69 cfs 2,184 cf
12.0" Round Culvert n=0.013 L=26.3' S=0.0103 ' Outflow=0.69 cfs 2,184 cf

Pond CB12: CB #12 Peak Elev=210.10' Inflow=0.46 cfs 1,452 cf
12.0" Round Culvert n=0.013 L=14.0' S=0.0050 ' Outflow=0.46 cfs 1,452 cf

Pond CB13: CB #13 Peak Elev=210.12' Inflow=0.50 cfs 1,594 cf
12.0" Round Culvert n=0.013 L=14.6' S=0.0048 ' Outflow=0.50 cfs 1,594 cf

Pond CB14: CB #14 Peak Elev=201.34' Inflow=0.62 cfs 1,965 cf
12.0" Round Culvert n=0.013 L=23.2' S=0.0052 ' Outflow=0.62 cfs 1,965 cf

Pond CB15: CB #15 Peak Elev=201.25' Inflow=0.35 cfs 1,238 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 ' Outflow=0.35 cfs 1,238 cf

Pond CB16: CB #16 Peak Elev=203.81' Inflow=0.29 cfs 933 cf
12.0" Round Culvert n=0.013 L=20.9' S=0.0067 ' Outflow=0.29 cfs 933 cf

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Pond CB17: CB #17

Peak Elev=205.49' Inflow=0.76 cfs 2,479 cf
12.0" Round Culvert n=0.013 L=13.8' S=0.0094 ' Outflow=0.76 cfs 2,479 cf

Pond CB18: CB #18

Peak Elev=205.38' Inflow=1.31 cfs 3,960 cf
15.0" Round Culvert n=0.013 L=25.1' S=0.0052 ' Outflow=1.31 cfs 3,960 cf

Pond CB2: CB#2

Peak Elev=205.50' Inflow=1.11 cfs 3,559 cf
12.0" Round Culvert n=0.013 L=92.1' S=0.0050 ' Outflow=1.11 cfs 3,559 cf

Pond CB20: CB #20

Peak Elev=204.49' Inflow=0.75 cfs 2,447 cf
12.0" Round Culvert n=0.013 L=30.3' S=0.0053 ' Outflow=0.75 cfs 2,447 cf

Pond CB21: CB #21

Peak Elev=204.78' Inflow=0.58 cfs 1,903 cf
12.0" Round Culvert n=0.013 L=26.0' S=0.0050 ' Outflow=0.58 cfs 1,903 cf

Pond CB22: CB #22

Peak Elev=205.81' Inflow=0.63 cfs 2,145 cf
12.0" Round Culvert n=0.012 L=16.1' S=0.0050 ' Outflow=0.63 cfs 2,145 cf

Pond CB23: CB #23

Peak Elev=205.83' Inflow=0.51 cfs 1,633 cf
12.0" Round Culvert n=0.012 L=16.3' S=0.0055 ' Outflow=0.51 cfs 1,633 cf

Pond CB24: CB #24

Peak Elev=205.47' Inflow=0.14 cfs 489 cf
12.0" Round Culvert n=0.012 L=12.1' S=0.0050 ' Outflow=0.14 cfs 489 cf

Pond CB25: CB #25

Peak Elev=205.70' Inflow=0.62 cfs 2,147 cf
12.0" Round Culvert n=0.012 L=11.4' S=0.0053 ' Outflow=0.62 cfs 2,147 cf

Pond CB26: CB #26

Peak Elev=202.35' Inflow=0.90 cfs 2,925 cf
12.0" Round Culvert n=0.013 L=42.5' S=0.0052 ' Outflow=0.90 cfs 2,925 cf

Pond CB27: CB #27

Peak Elev=201.51' Inflow=0.70 cfs 2,481 cf
12.0" Round Culvert n=0.013 L=18.0' S=0.0056 ' Outflow=0.70 cfs 2,481 cf

Pond CB28: CB #28

Peak Elev=198.30' Inflow=0.56 cfs 1,778 cf
12.0" Round Culvert n=0.013 L=13.7' S=0.0044 ' Outflow=0.56 cfs 1,778 cf

Pond CB29: CB #29

Peak Elev=205.86' Inflow=0.43 cfs 1,423 cf
12.0" Round Culvert n=0.013 L=13.5' S=0.0052 ' Outflow=0.43 cfs 1,423 cf

Pond CB3: CB#3

Peak Elev=208.41' Inflow=0.94 cfs 2,994 cf
12.0" Round Culvert n=0.013 L=10.2' S=0.0059 ' Outflow=0.94 cfs 2,994 cf

Pond CB30: CB #30

Peak Elev=205.93' Inflow=0.68 cfs 2,169 cf
12.0" Round Culvert n=0.013 L=17.5' S=0.0051 ' Outflow=0.68 cfs 2,169 cf

Pond CB31: CB #31

Peak Elev=204.71' Inflow=0.71 cfs 2,271 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' Outflow=0.71 cfs 2,271 cf

Pond CB32: CB #32

Peak Elev=204.67' Inflow=0.61 cfs 1,930 cf
12.0" Round Culvert n=0.013 L=16.3' S=0.0049 ' Outflow=0.61 cfs 1,930 cf

Pond CB33: CB #33

Peak Elev=205.61' Inflow=0.29 cfs 945 cf
12.0" Round Culvert n=0.013 L=11.7' S=0.0051 ' Outflow=0.29 cfs 945 cf

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Pond CB34: CB #34

Peak Elev=205.63' Inflow=0.42 cfs 1,360 cf
12.0" Round Culvert n=0.013 L=16.5' S=0.0048 ' ' Outflow=0.42 cfs 1,360 cf

Pond CB35: CB #35

Peak Elev=207.31' Inflow=0.21 cfs 731 cf
12.0" Round Culvert n=0.013 L=15.2' S=0.0053 ' ' Outflow=0.21 cfs 731 cf

Pond CB36: CB #36

Peak Elev=207.45' Inflow=0.47 cfs 1,675 cf
12.0" Round Culvert n=0.013 L=16.1' S=0.0050 ' ' Outflow=0.47 cfs 1,675 cf

Pond CB37: CB #37

Peak Elev=209.22' Inflow=0.09 cfs 307 cf
12.0" Round Culvert n=0.013 L=77.2' S=0.0098 ' ' Outflow=0.09 cfs 307 cf

Pond CB38: CB #38

Peak Elev=210.37' Inflow=1.16 cfs 3,710 cf
12.0" Round Culvert n=0.012 L=16.7' S=0.0048 ' ' Outflow=1.16 cfs 3,710 cf

Pond CB39: CB #39

Peak Elev=210.14' Inflow=0.55 cfs 1,966 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' ' Outflow=0.55 cfs 1,966 cf

Pond CB4: CB#4

Peak Elev=212.44' Inflow=0.56 cfs 2,997 cf
15.0" Round Culvert n=0.012 L=13.1' S=0.0046 ' ' Outflow=0.56 cfs 2,997 cf

Pond CB40: CB #40

Peak Elev=214.09' Inflow=0.32 cfs 1,152 cf
12.0" Round Culvert n=0.013 L=26.7' S=0.0049 ' ' Outflow=0.32 cfs 1,152 cf

Pond CB41: CB #41

Peak Elev=214.39' Inflow=0.66 cfs 2,099 cf
12.0" Round Culvert n=0.013 L=18.4' S=0.0049 ' ' Outflow=0.66 cfs 2,099 cf

Pond CB42: CB #42

Peak Elev=218.21' Inflow=0.33 cfs 1,072 cf
12.0" Round Culvert n=0.013 L=58.1' S=0.0076 ' ' Outflow=0.33 cfs 1,072 cf

Pond CB43: CB #43

Peak Elev=220.33' Inflow=0.25 cfs 790 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' ' Outflow=0.25 cfs 790 cf

Pond CB44: CB #44

Peak Elev=220.27' Inflow=0.12 cfs 420 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' ' Outflow=0.12 cfs 420 cf

Pond CB45: CB #45

Peak Elev=221.52' Inflow=0.15 cfs 533 cf
12.0" Round Culvert n=0.013 L=18.2' S=0.0049 ' ' Outflow=0.15 cfs 533 cf

Pond CB46: CB #46

Peak Elev=221.71' Inflow=0.10 cfs 347 cf
12.0" Round Culvert n=0.013 L=15.3' S=0.0052 ' ' Outflow=0.10 cfs 347 cf

Pond CB47: CB#47

Peak Elev=225.28' Inflow=0.22 cfs 774 cf
12.0" Round Culvert n=0.012 L=20.9' S=0.0373 ' ' Outflow=0.22 cfs 774 cf

Pond CB48: CB#48

Peak Elev=224.95' Inflow=1.03 cfs 4,345 cf
15.0" Round Culvert n=0.012 L=16.9' S=0.0278 ' ' Outflow=1.03 cfs 4,345 cf

Pond CB49: CB#49

Peak Elev=216.48' Inflow=0.13 cfs 452 cf
12.0" Round Culvert n=0.012 L=15.4' S=0.0156 ' ' Outflow=0.13 cfs 452 cf

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Pond CB5: CB#5Peak Elev=212.29' Inflow=0.10 cfs 368 cf
12.0" Round Culvert n=0.012 L=30.5' S=0.0049 '/' Outflow=0.10 cfs 368 cf**Pond CB50: CB#50**Peak Elev=215.53' Inflow=0.12 cfs 419 cf
12.0" Round Culvert n=0.012 L=17.3' S=0.0497 '/' Outflow=0.12 cfs 419 cf**Pond CB51: CB #51**Peak Elev=210.08' Inflow=0.61 cfs 1,968 cf
12.0" Round Culvert n=0.013 L=16.9' S=0.0047 '/' Outflow=0.61 cfs 1,968 cf**Pond CB6: CB#6**Peak Elev=212.56' Inflow=0.13 cfs 461 cf
12.0" Round Culvert n=0.012 L=38.3' S=0.0112 '/' Outflow=0.13 cfs 461 cf**Pond CB7: CB#7**Peak Elev=214.95' Inflow=0.47 cfs 1,490 cf
12.0" Round Culvert n=0.013 L=104.0' S=0.0088 '/' Outflow=0.47 cfs 1,490 cf**Pond CB8: CB#8**Peak Elev=214.55' Inflow=0.64 cfs 3,178 cf
12.0" Round Culvert n=0.013 L=12.1' S=0.0050 '/' Outflow=0.64 cfs 3,178 cf**Pond CB9: CB #9**Peak Elev=210.60' Inflow=0.94 cfs 3,072 cf
12.0" Round Culvert n=0.013 L=19.9' S=0.0196 '/' Outflow=0.94 cfs 3,072 cf**Pond D1: DMH#1**Peak Elev=203.96' Inflow=4.94 cfs 23,305 cf
30.0" Round Culvert n=0.013 L=24.6' S=0.0049 '/' Outflow=4.94 cfs 23,305 cf**Pond D10: DMH #10**Peak Elev=203.65' Inflow=0.29 cfs 933 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 '/' Outflow=0.29 cfs 933 cf**Pond D11: DMH #11**Peak Elev=205.09' Inflow=2.07 cfs 6,439 cf
15.0" Round Culvert n=0.013 L=44.6' S=0.0049 '/' Outflow=2.07 cfs 6,439 cf**Pond D12: DMH #12**Peak Elev=203.94' Inflow=1.33 cfs 4,350 cf
12.0" Round Culvert n=0.013 L=41.9' S=0.0050 '/' Outflow=1.33 cfs 4,350 cf**Pond D13: DMH #13**Peak Elev=202.89' Inflow=3.67 cfs 13,434 cf
24.0" Round Culvert n=0.013 L=60.1' S=0.0050 '/' Outflow=3.67 cfs 13,434 cf**Pond D14: DMH #14**Peak Elev=205.02' Inflow=1.90 cfs 6,414 cf
15.0" Round Culvert n=0.012 L=246.6' S=0.0050 '/' Outflow=1.90 cfs 6,414 cf**Pond D16: DMH #16**Peak Elev=205.42' Inflow=0.76 cfs 2,636 cf
15.0" Round Culvert n=0.012 L=103.5' S=0.0050 '/' Outflow=0.76 cfs 2,636 cf**Pond D17: DMH #17**Peak Elev=201.23' Inflow=1.60 cfs 5,406 cf
12.0" Round Culvert n=0.013 L=91.6' S=0.0312 '/' Outflow=1.60 cfs 5,406 cf**Pond D18: DMH #18**Peak Elev=198.20' Inflow=2.16 cfs 7,184 cf
15.0" Round Culvert n=0.013 L=46.3' S=0.0099 '/' Outflow=2.16 cfs 7,184 cf**Pond D19: DMH #19**Peak Elev=205.77' Inflow=1.12 cfs 3,592 cf
12.0" Round Culvert n=0.013 L=82.5' S=0.0092 '/' Outflow=1.12 cfs 3,592 cf**Pond D2: DMH#2**Peak Elev=207.07' Inflow=3.90 cfs 19,746 cf
30.0" Round Culvert n=0.013 L=129.9' S=0.0145 '/' Outflow=3.90 cfs 19,746 cf

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Pond D20: DMH #20Peak Elev=204.98' Inflow=1.12 cfs 3,592 cf
12.0" Round Culvert n=0.013 L=63.5' S=0.0049 '/' Outflow=1.12 cfs 3,592 cf**Pond D21: DMH #21**Peak Elev=203.99' Inflow=3.90 cfs 12,810 cf
24.0" Round Culvert n=0.013 L=72.4' S=0.0050 '/' Outflow=3.90 cfs 12,810 cf**Pond D22: DMH #22**Peak Elev=205.49' Inflow=1.48 cfs 5,017 cf
15.0" Round Culvert n=0.013 L=134.2' S=0.0071 '/' Outflow=1.48 cfs 5,017 cf**Pond D23: DMH #23**Peak Elev=207.11' Inflow=0.77 cfs 2,713 cf
15.0" Round Culvert n=0.013 L=173.3' S=0.0100 '/' Outflow=0.77 cfs 2,713 cf**Pond D24: DMH #24**Peak Elev=208.37' Inflow=0.09 cfs 307 cf
12.0" Round Culvert n=0.013 L=140.9' S=0.0077 '/' Outflow=0.09 cfs 307 cf**Pond D25: DMH #25**Peak Elev=209.53' Inflow=3.64 cfs 12,090 cf
18.0" Round Culvert n=0.012 L=78.6' S=0.0051 '/' Outflow=3.64 cfs 12,090 cf**Pond D26: DMH #26**Peak Elev=208.58' Inflow=3.64 cfs 12,090 cf
24.0" Round Culvert n=0.013 L=127.0' S=0.0050 '/' Outflow=3.64 cfs 12,090 cf**Pond D27: DMH #27**Peak Elev=213.98' Inflow=1.92 cfs 6,414 cf
15.0" Round Culvert n=0.012 L=247.1' S=0.0195 '/' Outflow=1.92 cfs 6,414 cf**Pond D28: DMH #28**Peak Elev=217.58' Inflow=0.94 cfs 3,163 cf
15.0" Round Culvert n=0.013 L=189.5' S=0.0196 '/' Outflow=0.94 cfs 3,163 cf**Pond D29: DMH #29**Peak Elev=220.22' Inflow=0.61 cfs 2,091 cf
12.0" Round Culvert n=0.013 L=118.4' S=0.0193 '/' Outflow=0.61 cfs 2,091 cf**Pond D3: DMH#3**Peak Elev=211.59' Inflow=2.75 cfs 14,484 cf
24.0" Round Culvert n=0.012 L=282.0' S=0.0146 '/' Outflow=2.75 cfs 14,484 cf**Pond D30: DMH #30**Peak Elev=221.21' Inflow=0.25 cfs 880 cf
12.0" Round Culvert n=0.013 L=184.2' S=0.0050 '/' Outflow=0.25 cfs 880 cf**Pond D31: DMH#31**Peak Elev=224.46' Inflow=1.18 cfs 5,119 cf
15.0" Round Culvert n=0.012 L=158.7' S=0.0598 '/' Outflow=1.18 cfs 5,119 cf**Pond D32: DMH#32**Peak Elev=214.88' Inflow=1.39 cfs 5,989 cf
15.0" Round Culvert n=0.012 L=122.0' S=0.0050 '/' Outflow=1.39 cfs 5,989 cf**Pond D33: DMH #33**Peak Elev=207.91' Inflow=4.24 cfs 14,059 cf
24.0" Round Culvert n=0.013 L=39.0' S=0.0051 '/' Outflow=4.24 cfs 14,059 cf**Pond D34: DMH #34**Peak Elev=197.68' Inflow=2.39 cfs 8,327 cf
15.0" Round Culvert n=0.012 L=51.0' S=0.0049 '/' Outflow=2.39 cfs 8,327 cf**Pond D4: DMH#4**Peak Elev=213.30' Inflow=2.24 cfs 10,658 cf
24.0" Round Culvert n=0.012 L=131.1' S=0.0125 '/' Outflow=2.24 cfs 10,658 cf

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Pond D5: DMH #5Peak Elev=209.90' Inflow=2.31 cfs 7,610 cf
18.0" Round Culvert n=0.013 L=183.0' S=0.0050 ' Outflow=2.31 cfs 7,610 cf**Pond D6: DMH #6**Peak Elev=208.85' Inflow=2.31 cfs 7,610 cf
18.0" Round Culvert n=0.013 L=299.7' S=0.0050 ' Outflow=2.31 cfs 7,610 cf**Pond D7: DMH #7**Peak Elev=206.84' Inflow=3.27 cfs 10,657 cf
24.0" Round Culvert n=0.013 L=101.8' S=0.0050 ' Outflow=3.27 cfs 10,657 cf**Pond D8: DMH #8**Peak Elev=201.18' Inflow=0.97 cfs 3,203 cf
12.0" Round Culvert n=0.013 L=87.7' S=0.0050 ' Outflow=0.97 cfs 3,203 cf**Pond D9: DMH #9**Peak Elev=200.65' Inflow=0.97 cfs 3,203 cf
12.0" Round Culvert n=0.013 L=11.9' S=0.0050 ' Outflow=0.97 cfs 3,203 cf**Pond DE1: DRIP #1**Peak Elev=223.76' Storage=229 cf Inflow=0.18 cfs 596 cf
Discarded=0.00 cfs 84 cf Primary=0.12 cfs 315 cf Outflow=0.12 cfs 399 cf**Pond DE10: DRIP #10**Peak Elev=213.77' Storage=207 cf Inflow=0.16 cfs 550 cf
Discarded=0.00 cfs 78 cf Primary=0.13 cfs 295 cf Outflow=0.13 cfs 373 cf**Pond DE11: DRIP #11**Peak Elev=212.79' Storage=232 cf Inflow=0.18 cfs 619 cf
Discarded=0.00 cfs 87 cf Primary=0.15 cfs 335 cf Outflow=0.15 cfs 422 cf**Pond DE12: DRIP #12**Peak Elev=212.04' Storage=201 cf Inflow=0.22 cfs 724 cf
Discarded=0.00 cfs 100 cf Primary=0.19 cfs 470 cf Outflow=0.19 cfs 570 cf**Pond DE13: DRIP #13**Peak Elev=211.90' Storage=292 cf Inflow=0.28 cfs 962 cf
Discarded=0.00 cfs 108 cf Primary=0.26 cfs 618 cf Outflow=0.26 cfs 726 cf**Pond DE14: DRIP #14**Peak Elev=210.17' Storage=207 cf Inflow=0.16 cfs 550 cf
Discarded=0.00 cfs 78 cf Primary=0.13 cfs 295 cf Outflow=0.13 cfs 373 cf**Pond DE15: DRIP #15**Peak Elev=209.46' Storage=194 cf Inflow=0.13 cfs 418 cf
Discarded=0.00 cfs 74 cf Primary=0.05 cfs 167 cf Outflow=0.05 cfs 241 cf**Pond DE16: DRIP #16**Peak Elev=209.07' Storage=207 cf Inflow=0.16 cfs 550 cf
Discarded=0.00 cfs 78 cf Primary=0.13 cfs 295 cf Outflow=0.13 cfs 373 cf**Pond DE17: DRIP #17**Peak Elev=204.73' Storage=175 cf Inflow=0.11 cfs 365 cf
Discarded=0.00 cfs 62 cf Primary=0.03 cfs 140 cf Outflow=0.03 cfs 202 cf**Pond DE18: DRIP #18**Peak Elev=206.50' Storage=222 cf Inflow=0.16 cfs 530 cf
Discarded=0.00 cfs 78 cf Primary=0.08 cfs 255 cf Outflow=0.08 cfs 333 cf**Pond DE19: DRIP #19**Peak Elev=207.29' Storage=197 cf Inflow=0.15 cfs 471 cf
Discarded=0.00 cfs 70 cf Primary=0.07 cfs 224 cf Outflow=0.07 cfs 294 cf**Pond DE2: DRIP #2**Peak Elev=223.17' Storage=160 cf Inflow=0.12 cfs 387 cf
Discarded=0.00 cfs 70 cf Primary=0.06 cfs 175 cf Outflow=0.06 cfs 245 cf**Pond DE20: DRIP #20**Peak Elev=207.90' Storage=187 cf Inflow=0.11 cfs 357 cf
Discarded=0.00 cfs 67 cf Primary=0.02 cfs 114 cf Outflow=0.02 cfs 181 cf

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Pond DE21: DRIP #21Peak Elev=208.34' Storage=177 cf Inflow=0.12 cfs 379 cf
Discarded=0.00 cfs 64 cf Primary=0.04 cfs 152 cf Outflow=0.04 cfs 216 cf**Pond DE22: DRIP #22**Peak Elev=209.31' Storage=272 cf Inflow=0.22 cfs 724 cf
Discarded=0.00 cfs 100 cf Primary=0.17 cfs 395 cf Outflow=0.17 cfs 495 cf**Pond DE23: DRIP #23**Peak Elev=209.76' Storage=192 cf Inflow=0.16 cfs 527 cf
Discarded=0.00 cfs 73 cf Primary=0.13 cfs 289 cf Outflow=0.13 cfs 362 cf**Pond DE24: DRIP #24**Peak Elev=210.81' Storage=287 cf Inflow=0.18 cfs 619 cf
Discarded=0.00 cfs 87 cf Primary=0.08 cfs 270 cf Outflow=0.08 cfs 357 cf**Pond DE25: DRIP #25**Peak Elev=211.09' Storage=232 cf Inflow=0.18 cfs 619 cf
Discarded=0.00 cfs 87 cf Primary=0.15 cfs 335 cf Outflow=0.15 cfs 422 cf**Pond DE26: DRIP #26**Peak Elev=211.77' Storage=193 cf Inflow=0.16 cfs 527 cf
Discarded=0.00 cfs 73 cf Primary=0.13 cfs 289 cf Outflow=0.13 cfs 362 cf**Pond DE27: DRIP #27**Peak Elev=212.39' Storage=93 cf Inflow=0.16 cfs 550 cf
Discarded=0.00 cfs 78 cf Primary=0.15 cfs 411 cf Outflow=0.15 cfs 489 cf**Pond DE28: DRIP #28**Peak Elev=213.27' Storage=207 cf Inflow=0.16 cfs 550 cf
Discarded=0.00 cfs 78 cf Primary=0.13 cfs 295 cf Outflow=0.13 cfs 373 cf**Pond DE29: DRIP #29**Peak Elev=213.29' Storage=130 cf Inflow=0.16 cfs 527 cf
Discarded=0.00 cfs 73 cf Primary=0.15 cfs 354 cf Outflow=0.15 cfs 427 cf**Pond DE3: DRIP #3**Peak Elev=222.56' Storage=192 cf Inflow=0.15 cfs 507 cf
Discarded=0.00 cfs 71 cf Primary=0.12 cfs 271 cf Outflow=0.12 cfs 342 cf**Pond DE30: DRIP #30**Peak Elev=213.56' Storage=177 cf Inflow=0.18 cfs 619 cf
Discarded=0.00 cfs 87 cf Primary=0.17 cfs 393 cf Outflow=0.17 cfs 480 cf**Pond DE31: DRIP #31**Peak Elev=213.79' Storage=232 cf Inflow=0.18 cfs 619 cf
Discarded=0.00 cfs 87 cf Primary=0.15 cfs 335 cf Outflow=0.15 cfs 422 cf**Pond DE32: DRIP #32**Peak Elev=213.17' Storage=193 cf Inflow=0.16 cfs 527 cf
Discarded=0.00 cfs 73 cf Primary=0.13 cfs 289 cf Outflow=0.13 cfs 362 cf**Pond DE33: DRIP #33**Peak Elev=212.26' Storage=194 cf Inflow=0.13 cfs 418 cf
Discarded=0.00 cfs 74 cf Primary=0.05 cfs 167 cf Outflow=0.05 cfs 241 cf**Pond DE34: DRIP #34**Peak Elev=212.19' Storage=291 cf Inflow=0.28 cfs 926 cf
Discarded=0.00 cfs 104 cf Primary=0.25 cfs 586 cf Outflow=0.25 cfs 691 cf**Pond DE35: DRIP #35**Peak Elev=210.89' Storage=291 cf Inflow=0.28 cfs 926 cf
Discarded=0.00 cfs 104 cf Primary=0.25 cfs 586 cf Outflow=0.25 cfs 691 cf**Pond DE36: DRIP #36**Peak Elev=208.34' Storage=201 cf Inflow=0.22 cfs 724 cf
Discarded=0.00 cfs 100 cf Primary=0.19 cfs 470 cf Outflow=0.19 cfs 570 cf

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Pond DE37: DRIP #37Peak Elev=209.33' Storage=200 cf Inflow=0.21 cfs 696 cf
Discarded=0.00 cfs 97 cf Primary=0.19 cfs 446 cf Outflow=0.19 cfs 543 cf**Pond DE38: DRIP #39**Peak Elev=210.76' Storage=229 cf Inflow=0.18 cfs 596 cf
Discarded=0.00 cfs 84 cf Primary=0.12 cfs 315 cf Outflow=0.12 cfs 399 cf**Pond DE39: DRIP #39**Peak Elev=211.76' Storage=192 cf Inflow=0.15 cfs 507 cf
Discarded=0.00 cfs 71 cf Primary=0.12 cfs 271 cf Outflow=0.12 cfs 342 cf**Pond DE4: DRIP #4**Peak Elev=220.76' Storage=229 cf Inflow=0.18 cfs 596 cf
Discarded=0.00 cfs 84 cf Primary=0.12 cfs 315 cf Outflow=0.12 cfs 399 cf**Pond DE40: DRIP #40**Peak Elev=212.76' Storage=229 cf Inflow=0.18 cfs 596 cf
Discarded=0.00 cfs 84 cf Primary=0.12 cfs 315 cf Outflow=0.12 cfs 399 cf**Pond DE41: DRIP #41**Peak Elev=213.76' Storage=229 cf Inflow=0.18 cfs 596 cf
Discarded=0.00 cfs 84 cf Primary=0.12 cfs 315 cf Outflow=0.12 cfs 399 cf**Pond DE42: DRIP #42**Peak Elev=214.67' Storage=180 cf Inflow=0.13 cfs 410 cf
Discarded=0.00 cfs 67 cf Primary=0.06 cfs 181 cf Outflow=0.06 cfs 248 cf**Pond DE43: DRIP #43**Peak Elev=215.67' Storage=180 cf Inflow=0.13 cfs 410 cf
Discarded=0.00 cfs 67 cf Primary=0.06 cfs 181 cf Outflow=0.06 cfs 248 cf**Pond DE44: DRIP #44**Peak Elev=217.67' Storage=180 cf Inflow=0.13 cfs 410 cf
Discarded=0.00 cfs 67 cf Primary=0.06 cfs 181 cf Outflow=0.06 cfs 248 cf**Pond DE45: DRIP #45**Peak Elev=218.76' Storage=192 cf Inflow=0.15 cfs 507 cf
Discarded=0.00 cfs 71 cf Primary=0.12 cfs 271 cf Outflow=0.12 cfs 342 cf**Pond DE47: DRIP #47**Peak Elev=218.33' Storage=200 cf Inflow=0.21 cfs 696 cf
Discarded=0.00 cfs 97 cf Primary=0.19 cfs 446 cf Outflow=0.19 cfs 543 cf**Pond DE48: DRIP #48**Peak Elev=216.63' Storage=190 cf Inflow=0.12 cfs 387 cf
Discarded=0.00 cfs 70 cf Primary=0.03 cfs 140 cf Outflow=0.03 cfs 210 cf**Pond DE49: DRIP #49**Peak Elev=214.67' Storage=180 cf Inflow=0.13 cfs 410 cf
Discarded=0.00 cfs 67 cf Primary=0.06 cfs 181 cf Outflow=0.06 cfs 248 cf**Pond DE5: DRIP #5**Peak Elev=220.36' Storage=192 cf Inflow=0.15 cfs 507 cf
Discarded=0.00 cfs 71 cf Primary=0.12 cfs 271 cf Outflow=0.12 cfs 342 cf**Pond DE61: DRIP #61**Peak Elev=213.16' Storage=259 cf Inflow=0.39 cfs 1,289 cf
Discarded=0.00 cfs 174 cf Primary=0.33 cfs 972 cf Outflow=0.33 cfs 1,146 cf**Pond DE62: DRIP #62**Peak Elev=213.16' Storage=259 cf Inflow=0.39 cfs 1,289 cf
Discarded=0.00 cfs 174 cf Primary=0.33 cfs 972 cf Outflow=0.33 cfs 1,146 cf**Pond DE63: DRIP #63**Peak Elev=207.85' Storage=139 cf Inflow=0.23 cfs 773 cf
Discarded=0.00 cfs 108 cf Primary=0.21 cfs 579 cf Outflow=0.21 cfs 687 cf**Pond DE64: DRIP #64**Peak Elev=205.89' Storage=170 cf Inflow=0.29 cfs 962 cf
Discarded=0.00 cfs 127 cf Primary=0.25 cfs 735 cf Outflow=0.25 cfs 862 cf

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Pond DE65: DRIP #65	Peak Elev=206.85' Storage=139 cf Inflow=0.23 cfs 773 cf Discarded=0.00 cfs 108 cf Primary=0.21 cfs 579 cf Outflow=0.21 cfs 687 cf
Pond DE66: DRIP #66	Peak Elev=208.69' Storage=170 cf Inflow=0.29 cfs 962 cf Discarded=0.00 cfs 127 cf Primary=0.25 cfs 735 cf Outflow=0.25 cfs 862 cf
Pond DE67: DRIP #67	Peak Elev=208.89' Storage=170 cf Inflow=0.29 cfs 962 cf Discarded=0.00 cfs 127 cf Primary=0.25 cfs 735 cf Outflow=0.25 cfs 862 cf
Pond DE68: DRIP #68	Peak Elev=207.89' Storage=239 cf Inflow=0.40 cfs 1,339 cf Discarded=0.00 cfs 179 cf Primary=0.35 cfs 1,019 cf Outflow=0.35 cfs 1,198 cf
Pond DE69: DRIP #69	Peak Elev=206.39' Storage=170 cf Inflow=0.29 cfs 962 cf Discarded=0.00 cfs 127 cf Primary=0.25 cfs 735 cf Outflow=0.25 cfs 862 cf
Pond DE7: DRIP #7	Peak Elev=212.27' Storage=207 cf Inflow=0.16 cfs 550 cf Discarded=0.00 cfs 78 cf Primary=0.13 cfs 295 cf Outflow=0.13 cfs 373 cf
Pond DE70: DRIP #70	Peak Elev=206.79' Storage=170 cf Inflow=0.29 cfs 962 cf Discarded=0.00 cfs 127 cf Primary=0.25 cfs 735 cf Outflow=0.25 cfs 862 cf
Pond DE71: DRIP #71	Peak Elev=207.47' Storage=261 cf Inflow=0.40 cfs 1,339 cf Discarded=0.00 cfs 179 cf Primary=0.34 cfs 1,016 cf Outflow=0.34 cfs 1,196 cf
Pond DE8: DRIP #8	Peak Elev=213.37' Storage=193 cf Inflow=0.16 cfs 527 cf Discarded=0.00 cfs 73 cf Primary=0.13 cfs 289 cf Outflow=0.13 cfs 362 cf
Pond DE9: DRIP #9	Peak Elev=213.69' Storage=232 cf Inflow=0.18 cfs 619 cf Discarded=0.00 cfs 87 cf Primary=0.15 cfs 335 cf Outflow=0.15 cfs 422 cf
Pond DECH: DRIP #CH	Peak Elev=209.02' Storage=262 cf Inflow=0.43 cfs 1,540 cf Discarded=0.04 cfs 1,116 cf Primary=0.25 cfs 424 cf Outflow=0.29 cfs 1,539 cf
Pond OCS1: OCS#1	Peak Elev=195.91' Inflow=4.55 cfs 15,511 cf Outflow=4.55 cfs 15,511 cf
Pond OCS3: OCS#3	Peak Elev=203.96' Inflow=3.32 cfs 10,892 cf Outflow=3.32 cfs 10,892 cf
Pond OCS4: OCS#4	Peak Elev=203.91' Inflow=0.67 cfs 2,125 cf Outflow=0.67 cfs 2,125 cf
Pond P204: STORMTECH INFILTRATION	Peak Elev=203.91' Storage=5,140 cf Inflow=3.98 cfs 13,017 cf Discarded=0.09 cfs 5,240 cf Primary=0.97 cfs 6,069 cf Outflow=1.05 cfs 11,309 cf
Pond P205: POCKET WETLAND #2	Peak Elev=199.32' Storage=12,790 cf Inflow=6.36 cfs 30,757 cf Outflow=0.95 cfs 30,449 cf
Pond P206: STORMTECH INFILTRATION	Peak Elev=195.88' Storage=5,128 cf Inflow=4.55 cfs 15,511 cf Discarded=0.49 cfs 15,395 cf Primary=0.08 cfs 115 cf Outflow=0.57 cfs 15,510 cf

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Pond P207: INFILTRATION POND #2 Peak Elev=197.41' Storage=6,296 cf Inflow=5.94 cfs 20,756 cf
Discarded=0.92 cfs 20,747 cf Primary=0.00 cfs 1 cf Outflow=0.92 cfs 20,748 cf

Pond P210: POCKET WETLAND #1 Peak Elev=203.72' Storage=12,623 cf Inflow=5.24 cfs 17,338 cf
Outflow=0.19 cfs 7,670 cf

Pond P212: INFILTRATION POND #1 Peak Elev=201.52' Storage=16,746 cf Inflow=11.46 cfs 45,804 cf
Discarded=1.65 cfs 45,240 cf Primary=0.16 cfs 552 cf Outflow=1.81 cfs 45,792 cf

Link AP1: ANALYSIS POINT 1 Inflow=0.70 cfs 2,241 cf
Primary=0.70 cfs 2,241 cf

Link AP2: ANALYSIS POINT 2 Inflow=8.39 cfs 83,261 cf
Primary=8.39 cfs 83,261 cf

Link AP3: ANALYSIS POINT 3 Inflow=1.20 cfs 4,014 cf
Primary=1.20 cfs 4,014 cf

Link AP4: ANALYSIS POINT #4 Inflow=7.38 cfs 88,185 cf
Primary=7.38 cfs 88,185 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 300,315 cf Average Runoff Depth = 1.40"
76.27% Pervious = 1,963,068 sf 23.73% Impervious = 610,852 sf

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Summary for Subcatchment B1: MULTIFAMILY BLDG #1

Runoff = 1.79 cfs @ 12.09 hrs, Volume= 6,349 cf, Depth> 3.04"
 Routed to Pond D34 : DMH #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
21,440	98	Roofs, HSG C
3,659	98	Roofs, HSG D
25,099	98	Weighted Average
25,099		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment B2: MULTIFAMILY BLDG #2

Runoff = 1.25 cfs @ 12.09 hrs, Volume= 4,452 cf, Depth> 3.04"
 Routed to Pond OCS3 : OCS#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
7,721	98	Roofs, HSG A
9,881	98	Roofs, HSG C
17,602	98	Weighted Average
17,602		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C1: CB #1

Runoff = 0.50 cfs @ 12.24 hrs, Volume= 2,268 cf, Depth> 1.02"
 Routed to Pond CB1 : CB#1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
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Area (sf)	CN	Description
8,351	61	>75% Grass cover, Good, HSG B
6,375	98	Paved parking, HSG B
11,862	68	1 acre lots, 20% imp, HSG B
26,588	73	Weighted Average
17,841		67.10% Pervious Area
8,747		32.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
1.4	60	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.1	89	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	214	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
16.1	413	Total			

Summary for Subcatchment C10: CB #10

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 2,354 cf, Depth> 2.92"
 Routed to Pond CB10 : CB #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
352	98	Paved parking, HSG B
517	74	>75% Grass cover, Good, HSG C
7,341	98	Paved parking, HSG C
1,450	98	Paved parking, HSG D
9,660	97	Weighted Average
517		5.35% Pervious Area
9,143		94.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C11: CB #11

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 2,184 cf, Depth> 1.89"
 Routed to Pond CB11 : CB #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
6,773	74	>75% Grass cover, Good, HSG C
7,061	98	Paved parking, HSG C
13,834	86	Weighted Average
6,773		48.96% Pervious Area
7,061		51.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C12: CB #12

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,452 cf, Depth> 1.82"
 Routed to Pond CB12 : CB #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
5,034	74	>75% Grass cover, Good, HSG C
4,562	98	Paved parking, HSG C
9,596	85	Weighted Average
5,034		52.46% Pervious Area
4,562		47.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C13: CB #13

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 1,594 cf, Depth> 2.23"
 Routed to Pond CB13 : CB #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,771	74	>75% Grass cover, Good, HSG C
5,801	98	Paved parking, HSG C
8,572	90	Weighted Average
2,771		32.33% Pervious Area
5,801		67.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 2YR Rainfall=3.27"

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Summary for Subcatchment C14: CB #14

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 1,965 cf, Depth> 1.82"
 Routed to Pond CB14 : CB #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,696	39	>75% Grass cover, Good, HSG A
8,015	98	Paved parking, HSG A
473	74	>75% Grass cover, Good, HSG C
1,802	98	Paved parking, HSG C
12,986	85	Weighted Average
3,169		24.40% Pervious Area
9,817		75.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C15: CB #15

Runoff = 0.35 cfs @ 12.09 hrs, Volume= 1,238 cf, Depth> 3.04"
 Routed to Pond CB15 : CB #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
4,739	98	Paved parking, HSG A
156	98	Paved parking, HSG C
4,895	98	Weighted Average
4,895		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C16: CB #16

Runoff = 0.29 cfs @ 12.10 hrs, Volume= 933 cf, Depth> 1.39"
 Routed to Pond CB16 : CB #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
2,405	39	>75% Grass cover, Good, HSG A
4,302	98	Paved parking, HSG A
454	74	>75% Grass cover, Good, HSG C
902	98	Paved parking, HSG C
8,063	79	Weighted Average
2,859		35.46% Pervious Area
5,204		64.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C17: CB #17

Runoff = 0.76 cfs @ 12.09 hrs, Volume= 2,479 cf, Depth> 2.51"
 Routed to Pond CB17 : CB #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,620	74	>75% Grass cover, Good, HSG C
9,225	98	Paved parking, HSG C
11,845	93	Weighted Average
2,620		22.12% Pervious Area
9,225		77.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C18: CB #18

Runoff = 1.11 cfs @ 12.09 hrs, Volume= 3,537 cf, Depth> 2.23"
 Routed to Pond CB18 : CB #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
6,388	74	>75% Grass cover, Good, HSG C
12,388	98	Paved parking, HSG C
240	98	Roofs, HSG C
19,016	90	Weighted Average
6,388		33.59% Pervious Area
12,628		66.41% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C2: CB #2

Runoff = 1.11 cfs @ 12.09 hrs, Volume= 3,559 cf, Depth> 2.23"
 Routed to Pond CB2 : CB#2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,249	61	>75% Grass cover, Good, HSG B
7,607	98	Paved parking, HSG B
2,714	74	>75% Grass cover, Good, HSG C
6,568	98	Paved parking, HSG C
19,138	90	Weighted Average
4,963		25.93% Pervious Area
14,175		74.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C20: CB #20

Runoff = 0.75 cfs @ 12.09 hrs, Volume= 2,447 cf, Depth> 2.51"
 Routed to Pond CB20 : CB #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,366	98	Paved parking, HSG A
2,399	74	>75% Grass cover, Good, HSG C
7,929	98	Paved parking, HSG C
11,694	93	Weighted Average
2,399		20.51% Pervious Area
9,295		79.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C21: CB #21

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 1,903 cf, Depth> 2.51"
 Routed to Pond CB21 : CB #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
769	39	>75% Grass cover, Good, HSG A
7,590	98	Paved parking, HSG A
734	98	Paved parking, HSG C
9,093	93	Weighted Average
769		8.46% Pervious Area
8,324		91.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C22: CB #22

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,145 cf, Depth> 2.82"
 Routed to Pond CB22 : CB #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
280	74	>75% Grass cover, Good, HSG C
2,641	98	Paved parking, HSG C
810	80	>75% Grass cover, Good, HSG D
5,408	98	Paved parking, HSG D
9,139	96	Weighted Average
1,090		11.93% Pervious Area
8,049		88.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C23: CB #23

Runoff = 0.51 cfs @ 12.09 hrs, Volume= 1,633 cf, Depth> 2.14"
 Routed to Pond CB23 : CB #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
272	39	>75% Grass cover, Good, HSG A
2,987	98	Paved parking, HSG A
1,099	74	>75% Grass cover, Good, HSG C
55	98	Paved parking, HSG C
2,042	80	>75% Grass cover, Good, HSG D
2,684	98	Paved parking, HSG D
9,139	89	Weighted Average
3,413		37.35% Pervious Area
5,726		62.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C24: CB #24

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 489 cf, Depth> 3.04"
 Routed to Pond CB24 : CB #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,933	98	Paved parking, HSG D
1,933		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C25: CB #25

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 2,147 cf, Depth> 2.92"
 Routed to Pond CB25 : CB #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
15	74	>75% Grass cover, Good, HSG C
299	98	Paved parking, HSG C
335	80	>75% Grass cover, Good, HSG D
8,162	98	Paved parking, HSG D
8,811	97	Weighted Average
350		3.97% Pervious Area
8,461		96.03% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C26: CB #26

Runoff = 0.90 cfs @ 12.09 hrs, Volume= 2,925 cf, Depth> 2.42"
 Routed to Pond CB26 : CB #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
5,135	80	>75% Grass cover, Good, HSG D
9,397	98	Paved parking, HSG D
14,532	92	Weighted Average
5,135		35.34% Pervious Area
9,397		64.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C27: CB #27

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,481 cf, Depth> 3.04"
 Routed to Pond CB27 : CB #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
763	98	Paved parking, HSG A
9,045	98	Paved parking, HSG D
9,808	98	Weighted Average
9,808		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C28: CB #28

Runoff = 0.56 cfs @ 12.09 hrs, Volume= 1,778 cf, Depth> 2.06"
 Routed to Pond CB28 : CB #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
2,749	74	>75% Grass cover, Good, HSG C
2,841	98	Paved parking, HSG C
2,296	80	>75% Grass cover, Good, HSG D
2,482	98	Paved parking, HSG D
10,368	88	Weighted Average
5,045		48.66% Pervious Area
5,323		51.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C29: CB #29

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,423 cf, Depth> 2.51"
 Routed to Pond CB29 : CB #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,549	74	>75% Grass cover, Good, HSG C
5,249	98	Paved parking, HSG C
6,798	93	Weighted Average
1,549		22.79% Pervious Area
5,249		77.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C3: CB #3

Runoff = 0.94 cfs @ 12.09 hrs, Volume= 2,994 cf, Depth> 2.06"
 Routed to Pond CB3 : CB#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
4,878	61	>75% Grass cover, Good, HSG B
12,576	98	Paved parking, HSG B
17,454	88	Weighted Average
4,878		27.95% Pervious Area
12,576		72.05% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C30: CB #30

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 2,169 cf, Depth> 2.14"
 Routed to Pond CB30 : CB #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
4,380	74	>75% Grass cover, Good, HSG C
7,761	98	Paved parking, HSG C
12,141	89	Weighted Average
4,380		36.08% Pervious Area
7,761		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C31: CB #31

Runoff = 0.71 cfs @ 12.09 hrs, Volume= 2,271 cf, Depth> 2.32"
 Routed to Pond CB31 : CB #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,369	74	>75% Grass cover, Good, HSG C
8,367	98	Paved parking, HSG C
11,736	91	Weighted Average
3,369		28.71% Pervious Area
8,367		71.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C32: CB #32

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 1,930 cf, Depth> 2.14"
 Routed to Pond CB32 : CB #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
4,013	74	>75% Grass cover, Good, HSG C
6,788	98	Paved parking, HSG C
10,801	89	Weighted Average
4,013		37.15% Pervious Area
6,788		62.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C33: CB #33

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 945 cf, Depth> 2.51"
 Routed to Pond CB33 : CB #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
995	74	>75% Grass cover, Good, HSG C
3,519	98	Paved parking, HSG C
4,514	93	Weighted Average
995		22.04% Pervious Area
3,519		77.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C34: CB #34

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,360 cf, Depth> 2.32"
 Routed to Pond CB34 : CB #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,924	74	>75% Grass cover, Good, HSG C
5,103	98	Paved parking, HSG C
7,027	91	Weighted Average
1,924		27.38% Pervious Area
5,103		72.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C35: CB #35

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 731 cf, Depth> 3.04"
 Routed to Pond CB35 : CB #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,891	98	Paved parking, HSG C
2,891		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C36: CB #36

Runoff = 0.47 cfs @ 12.09 hrs, Volume= 1,675 cf, Depth> 3.04"
 Routed to Pond CB36 : CB #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
6,622	98	Paved parking, HSG C
6,622		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C37: CB #37

Runoff = 0.09 cfs @ 12.09 hrs, Volume= 307 cf, Depth> 2.92"
 Routed to Pond CB37 : CB #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
687	98	Paved parking, HSG C
79	80	>75% Grass cover, Good, HSG D
492	98	Paved parking, HSG D
1,258	97	Weighted Average
79		6.28% Pervious Area
1,179		93.72% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C38: CB #38

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 3,710 cf, Depth> 2.23"
 Routed to Pond CB38 : CB #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
4,460	61	>75% Grass cover, Good, HSG B
14,500	98	Paved parking, HSG B
38	74	>75% Grass cover, Good, HSG C
355	98	Paved parking, HSG C
81	80	>75% Grass cover, Good, HSG D
517	98	Paved parking, HSG D
19,951	90	Weighted Average
4,579		22.95% Pervious Area
15,372		77.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C39: CB #39

Runoff = 0.55 cfs @ 12.09 hrs, Volume= 1,966 cf, Depth> 3.04"
 Routed to Pond CB39 : CB #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
9	61	>75% Grass cover, Good, HSG B
6,543	98	Paved parking, HSG B
45	74	>75% Grass cover, Good, HSG C
517	98	Paved parking, HSG C
67	80	>75% Grass cover, Good, HSG D
592	98	Paved parking, HSG D
7,773	98	Weighted Average
121		1.56% Pervious Area
7,652		98.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C4: CB #4

Runoff = 0.56 cfs @ 12.34 hrs, Volume= 2,997 cf, Depth> 0.81"
 Routed to Pond CB4 : CB#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
7,248	61	>75% Grass cover, Good, HSG B
3,633	98	Paved parking, HSG B
33,287	68	1 acre lots, 20% imp, HSG B
44,168	69	Weighted Average
33,878		76.70% Pervious Area
10,290		23.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
7.4	316	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.4	109	0.0360	1.33		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	70	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
21.4	545	Total			

Summary for Subcatchment C40: CB #40

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,152 cf, Depth> 3.04"
 Routed to Pond CB40 : CB #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
4,556	98	Paved parking, HSG B
4,556		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C41: CB #41

Runoff = 0.66 cfs @ 12.09 hrs, Volume= 2,099 cf, Depth> 1.98"
 Routed to Pond CB41 : CB #41

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Type III 24-hr 2YR Rainfall=3.27"

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,917	61	>75% Grass cover, Good, HSG B
8,833	98	Paved parking, HSG B
12,750	87	Weighted Average
3,917		30.72% Pervious Area
8,833		69.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C42: CB #42

Runoff = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf, Depth> 1.14"
 Routed to Pond CB42 : CB #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
7,160	61	>75% Grass cover, Good, HSG B
4,117	98	Paved parking, HSG B
11,277	75	Weighted Average
7,160		63.49% Pervious Area
4,117		36.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C43: CB #43

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 790 cf, Depth> 2.32"
 Routed to Pond CB43 : CB #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
751	61	>75% Grass cover, Good, HSG B
3,333	98	Paved parking, HSG B
4,084	91	Weighted Average
751		18.39% Pervious Area
3,333		81.61% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C44: CB #44

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 420 cf, Depth> 3.04"
 Routed to Pond CB44 : CB #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,662	98	Paved parking, HSG B
1,662		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C45: CB #45

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 533 cf, Depth> 3.04"
 Routed to Pond CB45 : CB #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,109	98	Paved parking, HSG B
2,109		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C46: CB #46

Runoff = 0.10 cfs @ 12.09 hrs, Volume= 347 cf, Depth> 3.04"
 Routed to Pond CB46 : CB #46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,371	98	Paved parking, HSG B
1,371		100.00% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C47: CB#47

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 774 cf, Depth> 3.04"
 Routed to Pond CB47 : CB#47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,060	98	Paved parking, HSG B
3,060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C48: CB#48

Runoff = 1.03 cfs @ 12.19 hrs, Volume= 4,345 cf, Depth> 0.87"
 Routed to Pond CB48 : CB#48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
4,469	98	Paved parking, HSG B
55,697	68	1 acre lots, 20% imp, HSG B
60,166	70	Weighted Average
44,558		74.06% Pervious Area
15,608		25.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
4.8	350	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.8	400	Total			

Summary for Subcatchment C49: CB#49

Runoff = 0.13 cfs @ 12.10 hrs, Volume= 452 cf, Depth> 0.92"
 Routed to Pond CB49 : CB#49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
4,236	61	>75% Grass cover, Good, HSG B
1,659	98	Paved parking, HSG B
5,895	71	Weighted Average
4,236		71.86% Pervious Area
1,659		28.14% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C5: CB #5

Runoff = 0.10 cfs @ 12.09 hrs, Volume= 368 cf, Depth> 3.04"
 Routed to Pond CB5 : CB#5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,337	98	Paved parking, HSG B
119	98	Paved parking, HSG D
1,456	98	Weighted Average
1,456		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C50: CB#50

Runoff = 0.12 cfs @ 12.10 hrs, Volume= 419 cf, Depth> 0.97"
 Routed to Pond CB50 : CB#50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,639	61	>75% Grass cover, Good, HSG B
813	55	Woods, Good, HSG B
1,723	98	Paved parking, HSG B
5,175	72	Weighted Average
3,452		66.71% Pervious Area
1,723		33.29% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C51: CB #51

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 1,968 cf, Depth> 2.42"
 Routed to Pond CB51 : CB #51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,525	61	>75% Grass cover, Good, HSG B
8,254	98	Paved parking, HSG B
9,779	92	Weighted Average
1,525		15.59% Pervious Area
8,254		84.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C6: CB #6

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 461 cf, Depth> 3.04"
 Routed to Pond CB6 : CB#6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,821	98	Paved parking, HSG B
1,821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C7: CB #7

Runoff = 0.47 cfs @ 12.10 hrs, Volume= 1,490 cf, Depth> 1.39"
 Routed to Pond CB7 : CB#7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
6,625	61	>75% Grass cover, Good, HSG B
6,258	98	Paved parking, HSG B
12,883	79	Weighted Average
6,625		51.42% Pervious Area
6,258		48.58% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C8: CB #8

Runoff = 0.64 cfs @ 12.28 hrs, Volume= 3,178 cf, Depth> 0.86"
 Routed to Pond CB8 : CB#8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
8,724	61	>75% Grass cover, Good, HSG B
4,940	98	Paved parking, HSG B
30,434	68	1 acre lots, 20% imp, HSG B
44,098	70	Weighted Average
33,071		74.99% Pervious Area
11,027		25.01% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
5.1	304	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	91	0.0430	3.34		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.4	75	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
18.2	520	Total			

Summary for Subcatchment C9: CB #9

Runoff = 0.94 cfs @ 12.09 hrs, Volume= 3,072 cf, Depth> 2.51"
 Routed to Pond CB9 : CB #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
54	98	Paved parking, HSG B
3,264	74	>75% Grass cover, Good, HSG C
10,424	98	Paved parking, HSG C
939	98	Paved parking, HSG D
14,681	93	Weighted Average
3,264		22.23% Pervious Area
11,417		77.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment CH1: CLUBHOUSE

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,540 cf, Depth> 3.04"
 Routed to Pond DECH : DRIP #CH

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
6,087	98	Roofs, HSG C
6,087		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H1: SF #1

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 596 cf, Depth> 2.61"
 Routed to Pond DE1 : DRIP #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H10: SF #10

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 550 cf, Depth> 2.71"
 Routed to Pond DE10 : DRIP #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H11: SF #11

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 619 cf, Depth> 2.71"
 Routed to Pond DE11 : DRIP #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H12: SF #12

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 724 cf, Depth> 2.71"
 Routed to Pond DE12 : DRIP #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H13: SF #13

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 962 cf, Depth> 2.82"
 Routed to Pond DE13 : DRIP #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,715	98	Roofs, HSG C
383	74	>75% Grass cover, Good, HSG C
4,098	96	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H14: SF #14

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 550 cf, Depth> 2.71"
 Routed to Pond DE14 : DRIP #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H15: SF #15

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 418 cf, Depth> 2.61"
 Routed to Pond DE15 : DRIP #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H16: SF #16

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 550 cf, Depth> 2.71"
 Routed to Pond DE16 : DRIP #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H17: SF #17

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 365 cf, Depth> 2.23"
 Routed to Pond DE17 : DRIP #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG A
267	39	>75% Grass cover, Good, HSG A
1,961	90	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H18: SF #18

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 530 cf, Depth> 2.32"
 Routed to Pond DE18 : DRIP #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG A
323	39	>75% Grass cover, Good, HSG A
2,741	91	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H19: SF #19

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 471 cf, Depth> 2.32"
 Routed to Pond DE19 : DRIP #19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,144	98	Roofs, HSG A
290	39	>75% Grass cover, Good, HSG A
2,434	91	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H2: SF #2

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 387 cf, Depth> 2.42"
 Routed to Pond DE2 : DRIP #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H20: SF #20

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 357 cf, Depth> 2.23"
 Routed to Pond DE20 : DRIP #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,085	98	Roofs, HSG A
214	39	>75% Grass cover, Good, HSG A
546	98	Roofs, HSG C
76	74	>75% Grass cover, Good, HSG C
1,921	90	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H21: SF #21

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 379 cf, Depth> 2.32"
 Routed to Pond DE21 : DRIP #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
793	98	Roofs, HSG A
190	39	>75% Grass cover, Good, HSG A
900	98	Roofs, HSG C
78	74	>75% Grass cover, Good, HSG C
1,961	91	Weighted Average
268		13.67% Pervious Area
1,693		86.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H22: SF #22

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 724 cf, Depth> 2.71"
 Routed to Pond DE22 : DRIP #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H23: SF #23

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 527 cf, Depth> 2.71"
 Routed to Pond DE23 : DRIP #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H24: SF #24

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 619 cf, Depth> 2.71"
 Routed to Pond DE24 : DRIP #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H25: SF #25

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 619 cf, Depth> 2.71"
 Routed to Pond DE25 : DRIP #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H26: SF #26

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 527 cf, Depth> 2.71"
 Routed to Pond DE26 : DRIP #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H27: SF #27

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 550 cf, Depth> 2.71"
 Routed to Pond DE27 : DRIP #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H28: SF #28

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 550 cf, Depth> 2.71"
 Routed to Pond DE28 : DRIP #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H29: SF #29

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 527 cf, Depth> 2.71"
 Routed to Pond DE29 : DRIP #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H3: SF #3

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 507 cf, Depth> 2.61"
 Routed to Pond DE3 : DRIP #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H30: SF #30

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 619 cf, Depth> 2.71"
 Routed to Pond DE30 : DRIP #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H31: SF #31

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 619 cf, Depth> 2.71"
 Routed to Pond DE31 : DRIP #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H32: SF #32

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 527 cf, Depth> 2.71"
 Routed to Pond DE32 : DRIP #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H33: SF #33

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 418 cf, Depth> 2.61"
 Routed to Pond DE33 : DRIP #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H34: SF #34

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 926 cf, Depth> 2.71"
 Routed to Pond DE34 : DRIP #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H35: SF #35

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 926 cf, Depth> 2.71"
 Routed to Pond DE35 : DRIP #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H36: SF #36

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 724 cf, Depth> 2.71"
 Routed to Pond DE36 : DRIP #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
352	98	Roofs, HSG B
135	61	>75% Grass cover, Good, HSG B
2,477	98	Roofs, HSG C
238	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H37: SF #37

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 696 cf, Depth> 2.61"
 Routed to Pond DE37 : DRIP #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H38: SF #38

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 596 cf, Depth> 2.61"
 Routed to Pond DE38 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H39: SF #39

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 507 cf, Depth> 2.61"
 Routed to Pond DE39 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H4: SF #4

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 596 cf, Depth> 2.61"
 Routed to Pond DE4 : DRIP #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H40: SF #40

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 596 cf, Depth> 2.61"
 Routed to Pond DE40 : DRIP #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H41: SF #41

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 596 cf, Depth> 2.61"
 Routed to Pond DE41 : DRIP #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H42: SF #42

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 410 cf, Depth> 2.51"
 Routed to Pond DE42 : DRIP #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H43: SF #43

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 410 cf, Depth> 2.51"
 Routed to Pond DE43 : DRIP #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H44: SF #44

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 410 cf, Depth> 2.51"
 Routed to Pond DE44 : DRIP #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H45: SF #45

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 507 cf, Depth> 2.61"
 Routed to Pond DE45 : DRIP #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H46: SF #46

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 696 cf, Depth> 2.61"
 Routed to Pond DE47 : DRIP #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 2YR Rainfall=3.27"

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Summary for Subcatchment H47: SF #47

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 387 cf, Depth> 2.42"
 Routed to Pond DE48 : DRIP #48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H48: SF #48

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 410 cf, Depth> 2.51"
 Routed to Pond DE49 : DRIP #49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H5: SF #5

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 507 cf, Depth> 2.61"
 Routed to Pond DE5 : DRIP #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H7: SF #7

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 550 cf, Depth> 2.71"
 Routed to Pond DE7 : DRIP #7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H8: SF #8

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 527 cf, Depth> 2.71"
 Routed to Pond DE8 : DRIP #8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 2YR Rainfall=3.27"

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Summary for Subcatchment H9: SF #9

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 619 cf, Depth> 2.71"
 Routed to Pond DE9 : DRIP #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S201: SUMMER STREET ACCESS APRON

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,241 cf, Depth> 2.32"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,253	61	>75% Grass cover, Good, HSG B
9,329	98	Paved parking, HSG B
11,582	91	Weighted Average
2,253		19.45% Pervious Area
9,329		80.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S202: EXISTING WETLAND

Runoff = 9.14 cfs @ 12.31 hrs, Volume= 44,153 cf, Depth> 1.32"
 Routed to Reach SC1 : Stream Crossing #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
153,785	61	>75% Grass cover, Good, HSG B
44,442	55	Woods, Good, HSG B
13,947	98	Paved parking, HSG B
5,507	74	>75% Grass cover, Good, HSG C
16,089	70	Woods, Good, HSG C
127	98	Water Surface, 0% imp, HSG C
651	80	>75% Grass cover, Good, HSG D
167,325	98	Water Surface, 0% imp, HSG D
401,873	78	Weighted Average
387,926		96.53% Pervious Area
13,947		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	50	0.0600	0.16		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
1.9	192	0.0600	1.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.8	314	0.0700	1.85		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.6	493	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
21.5	1,049	Total			

Summary for Subcatchment S203: POCKET WETLAND #1

Runoff = 0.70 cfs @ 12.10 hrs, Volume= 2,307 cf, Depth> 1.08"
Routed to Pond p210 : POCKET WETLAND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
11,579	61	>75% Grass cover, Good, HSG B
1,816	98	Water Surface, 0% imp, HSG B
331	98	Paved parking, HSG B
8,210	74	>75% Grass cover, Good, HSG C
3,638	98	Water Surface, 0% imp, HSG C
25,574	74	Weighted Average
25,243		98.71% Pervious Area
331		1.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 2YR Rainfall=3.27"

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Summary for Subcatchment S204: EXISTING WETLANDS

Runoff = 6.32 cfs @ 12.33 hrs, Volume= 31,052 cf, Depth> 1.38"
 Routed to Link ap2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
44,109	61	>75% Grass cover, Good, HSG B
8,675	55	Woods, Good, HSG B
280	98	Paved parking, HSG B
48,392	74	>75% Grass cover, Good, HSG C
65,808	70	Woods, Good, HSG C
4,065	80	>75% Grass cover, Good, HSG D
2,743	77	Woods, Good, HSG D
95,456	98	Water Surface, 0% imp, HSG D
269,528	79	Weighted Average
269,248		99.90% Pervious Area
280		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.2000	0.26		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
19.4	582	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.6	632	Total			

Summary for Subcatchment S205: ISOLATED WETLAND

Runoff = 1.20 cfs @ 12.10 hrs, Volume= 4,014 cf, Depth> 1.03"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
5,242	39	>75% Grass cover, Good, HSG A
3,607	30	Woods, Good, HSG A
2,667	74	>75% Grass cover, Good, HSG C
1,829	70	Woods, Good, HSG C
6,506	80	>75% Grass cover, Good, HSG D
18,453	77	Woods, Good, HSG D
8,620	98	Water Surface, 0% imp, HSG D
46,924	73	Weighted Average
46,924		100.00% Pervious Area

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Type III 24-hr 2YR Rainfall=3.27"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S206: OVERLAND FLOW

Runoff = 5.50 cfs @ 12.42 hrs, Volume= 33,993 cf, Depth> 0.63"
 Routed to Link AP4 : ANALYSIS POINT #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
57,993	39	>75% Grass cover, Good, HSG A
105,804	30	Woods, Good, HSG A
31,970	30	Brush, Good, HSG A
15,917	61	>75% Grass cover, Good, HSG B
8,415	55	Woods, Good, HSG B
89,799	74	>75% Grass cover, Good, HSG C
91,893	70	Woods, Good, HSG C
10,481	80	>75% Grass cover, Good, HSG D
121,472	77	Woods, Good, HSG D
114,002	98	Water Surface, 0% imp, HSG D
647,746	65	Weighted Average
647,746		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
15.1	745	0.0270	0.82		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
24.3	795	Total			

Summary for Subcatchment S207: INFILTRATION POND #2

Runoff = 1.01 cfs @ 12.09 hrs, Volume= 3,187 cf, Depth> 1.82"
 Routed to Pond P207 : INFILTRATION POND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
586	39	>75% Grass cover, Good, HSG A
252	98	Water Surface, 0% imp, HSG A
10,402	74	>75% Grass cover, Good, HSG C
9,818	98	Water Surface, 0% imp, HSG C
21,058	85	Weighted Average
21,058		100.00% Pervious Area

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Type III 24-hr 2YR Rainfall=3.27"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S208: GRASS AREA

Runoff = 0.33 cfs @ 12.10 hrs, Volume= 1,106 cf, Depth> 0.97"
 Routed to Pond OCS4 : OCS#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
605	39	>75% Grass cover, Good, HSG A
13,051	74	>75% Grass cover, Good, HSG C
13,656	72	Weighted Average
13,656		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S209: WETLAND C

Runoff = 1.66 cfs @ 12.42 hrs, Volume= 9,242 cf, Depth> 1.02"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
17,105	39	>75% Grass cover, Good, HSG A
10,847	30	Woods, Good, HSG A
15,520	74	>75% Grass cover, Good, HSG C
21,139	70	Woods, Good, HSG C
44,067	98	Water Surface, 0% imp, HSG D
108,678	73	Weighted Average
108,678		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	50	0.0150	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
13.6	500	0.0150	0.61		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
27.3	550	Total			

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Type III 24-hr 2YR Rainfall=3.27"

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Summary for Subcatchment S210: INFILTRATION POND #1

Runoff = 3.89 cfs @ 12.23 hrs, Volume= 16,587 cf, Depth> 1.74"
 Routed to Pond P212 : INFILTRATION POND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
2,476	39	>75% Grass cover, Good, HSG A
1,222	98	Paved parking, HSG A
58,519	74	>75% Grass cover, Good, HSG C
25,420	98	Paved parking, HSG C
27,041	98	Water Surface, 0% imp, HSG C
114,678	84	Weighted Average
88,036		76.77% Pervious Area
26,642		23.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0150	0.13		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
10.3	530	0.0150	0.86		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
16.5	580	Total			

Summary for Subcatchment S211: POCKET WETLAND #2

Runoff = 0.91 cfs @ 12.32 hrs, Volume= 4,508 cf, Depth> 1.19"
 Routed to Pond P205 : POCKET WETLAND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
6,834	61	>75% Grass cover, Good, HSG B
13,286	55	Woods, Good, HSG B
7,418	74	>75% Grass cover, Good, HSG C
255	70	Woods, Good, HSG C
17,484	98	Water Surface, 0% imp, HSG C
45,277	76	Weighted Average
45,277		100.00% Pervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	50	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 3.27"
0.8	50	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.1	428	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.0	528	Total			

Summary for Subcatchment S212: SWALE

Runoff = 0.71 cfs @ 12.27 hrs, Volume= 3,261 cf, Depth> 1.26"
 Routed to Reach SC2 : Stream Crossing #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
7,747	61	>75% Grass cover, Good, HSG B
5,761	55	Woods, Good, HSG B
2,263	74	>75% Grass cover, Good, HSG C
2,141	70	Woods, Good, HSG C
661	80	>75% Grass cover, Good, HSG D
12,563	98	Water Surface, 0% imp, HSG D
31,136	77	Weighted Average
31,136		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	50	0.0050	0.06		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
4.7	100	0.0050	0.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.8	150	Total			

Summary for Subcatchment S213: COURTYARD

Runoff = 0.85 cfs @ 12.10 hrs, Volume= 2,699 cf, Depth> 1.52"
 Routed to Pond 11P : YARD DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
3,938	39	>75% Grass cover, Good, HSG A
1,339	98	Paved parking, HSG A
215	98	Roofs, HSG A
2,201	98	Water Surface, 0% imp, HSG A
4,975	74	>75% Grass cover, Good, HSG C
6,390	98	Paved parking, HSG C
637	98	Roofs, HSG C
718	98	Water Surface, 0% imp, HSG C
764	80	>75% Grass cover, Good, HSG D
94	98	Paved parking, HSG D
21,271	81	Weighted Average
12,596		59.22% Pervious Area
8,675		40.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T1: Trench Drain 1

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 1,978 cf, Depth> 2.51"
 Routed to Pond 5R : TRENCH DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
1,281	74	>75% Grass cover, Good, HSG C
4,088	98	Paved parking, HSG C
662	80	>75% Grass cover, Good, HSG D
3,423	98	Paved parking, HSG D
9,454	93	Weighted Average
1,943		20.55% Pervious Area
7,511		79.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T2: Drive Under B2

Runoff = 0.22 cfs @ 12.10 hrs, Volume= 709 cf, Depth> 1.52"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
1,582	39	>75% Grass cover, Good, HSG A
2,313	98	Paved parking, HSG A
77	74	>75% Grass cover, Good, HSG C
1,613	98	Paved parking, HSG C
5,585	81	Weighted Average
1,659		29.70% Pervious Area
3,926		70.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH1: TOWN HOUSE #1

Runoff = 0.39 cfs @ 12.09 hrs, Volume= 1,289 cf, Depth> 2.61"
 Routed to Pond DE61 : DRIP #61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH10: TOWN HOUSE #10

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 962 cf, Depth> 2.71"
 Routed to Pond DE70 : DRIP #70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

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Type III 24-hr 2YR Rainfall=3.27"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH11: TOWN HOUSE #11

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,339 cf, Depth> 2.71"
 Routed to Pond DE71 : DRIP #71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH2: TOWN HOUSE #2

Runoff = 0.39 cfs @ 12.09 hrs, Volume= 1,289 cf, Depth> 2.61"
 Routed to Pond DE62 : DRIP #62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH3: TOWN HOUSE #3

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 773 cf, Depth> 2.71"
 Routed to Pond DE63 : DRIP #63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH4: TOWN HOUSE #4

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 962 cf, Depth> 2.71"
 Routed to Pond DE64 : DRIP #64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH5: TOWN HOUSE #5

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 773 cf, Depth> 2.71"
 Routed to Pond DE65 : DRIP #65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment TH6: TOWN HOUSE #6

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 962 cf, Depth> 2.71"
 Routed to Pond DE66 : DRIP #66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH7: TOWN HOUSE #7

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 962 cf, Depth> 2.71"
 Routed to Pond DE67 : DRIP #67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH8: TOWN HOUSE #8

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,339 cf, Depth> 2.71"
 Routed to Pond DE68 : DRIP #68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

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Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH9: TOWN HOUSE #9

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 962 cf, Depth> 2.71"
 Routed to Pond DE69 : DRIP #69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2YR Rainfall=3.27"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Reach 1R: OVERLAND FLOW

Inflow Area = 12,069 sf, 87.75% Impervious, Inflow Depth > 1.34" for 2YR event
 Inflow = 0.50 cfs @ 12.19 hrs, Volume= 1,347 cf
 Outflow = 0.02 cfs @ 16.17 hrs, Volume= 634 cf, Atten= 96%, Lag= 238.7 min
 Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Max. Velocity= 0.03 fps, Min. Travel Time= 854.0 min
 Avg. Velocity = 0.02 fps, Avg. Travel Time= 933.6 min

Peak Storage= 934 cf @ 16.17 hrs
 Average Depth at Peak Storage= 0.01' , Surface Width= 50.14'
 Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 22.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
 Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'
 Length= 1,350.0' Slope= 0.0133 ' / '
 Inlet Invert= 218.00', Outlet Invert= 200.00'

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Summary for Reach 3R: OVERLAND FLOW

Inflow Area = 7,508 sf, 88.23% Impervious, Inflow Depth > 1.47" for 2YR event
Inflow = 0.41 cfs @ 12.16 hrs, Volume= 919 cf
Outflow = 0.04 cfs @ 13.22 hrs, Volume= 790 cf, Atten= 91%, Lag= 63.5 min
Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.04 fps, Min. Travel Time= 195.6 min
Avg. Velocity = 0.03 fps, Avg. Travel Time= 265.8 min

Peak Storage= 440 cf @ 13.22 hrs
Average Depth at Peak Storage= 0.02' , Surface Width= 40.23'
Bank-Full Depth= 1.00' Flow Area= 45.0 sf, Capacity= 20.48 cfs

40.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 50.00'
Length= 475.0' Slope= 0.0174 ' / '
Inlet Invert= 211.50', Outlet Invert= 203.25'



Summary for Reach 4R: OVERLAND FLOW

Inflow Area = 12,683 sf, 88.20% Impervious, Inflow Depth > 1.51" for 2YR event
Inflow = 0.56 cfs @ 12.17 hrs, Volume= 1,600 cf
Outflow = 0.07 cfs @ 13.06 hrs, Volume= 1,402 cf, Atten= 87%, Lag= 53.9 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.05 fps, Min. Travel Time= 172.6 min
Avg. Velocity = 0.04 fps, Avg. Travel Time= 250.7 min

Peak Storage= 752 cf @ 13.06 hrs
Average Depth at Peak Storage= 0.03' , Surface Width= 50.56'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 30.09 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 535.0' Slope= 0.0224 '/'

Inlet Invert= 202.00', Outlet Invert= 190.00'



Summary for Reach 7R: OVERLAND FLOW

Inflow Area = 8,196 sf, 90.65% Impervious, Inflow Depth > 1.72" for 2YR event

Inflow = 0.49 cfs @ 12.13 hrs, Volume= 1,172 cf

Outflow = 0.04 cfs @ 13.59 hrs, Volume= 912 cf, Atten= 93%, Lag= 87.5 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.04 fps, Min. Travel Time= 300.0 min

Avg. Velocity= 0.03 fps, Avg. Travel Time= 370.6 min

Peak Storage= 636 cf @ 13.59 hrs

Average Depth at Peak Storage= 0.02' , Surface Width= 50.17'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 30.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 730.0' Slope= 0.0247 '/'

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 8R: OVERLAND FLOW

Inflow Area = 7,815 sf, 88.27% Impervious, Inflow Depth > 1.66" for 2YR event

Inflow = 0.45 cfs @ 12.14 hrs, Volume= 1,082 cf

Outflow = 0.03 cfs @ 13.73 hrs, Volume= 825 cf, Atten= 93%, Lag= 95.1 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.04 fps, Min. Travel Time= 328.2 min

Avg. Velocity= 0.03 fps, Avg. Travel Time= 401.6 min

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Peak Storage= 612 cf @ 13.73 hrs

Average Depth at Peak Storage= 0.02' , Surface Width= 50.32'

Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.01 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 756.0' Slope= 0.0238 '/'

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 9R: OVERLAND FLOW

Inflow Area = 16,553 sf, 87.42% Impervious, Inflow Depth > 1.14" for 2YR event

Inflow = 0.37 cfs @ 12.22 hrs, Volume= 1,570 cf

Outflow = 0.12 cfs @ 12.79 hrs, Volume= 1,499 cf, Atten= 67%, Lag= 34.1 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.10 fps, Min. Travel Time= 65.5 min

Avg. Velocity= 0.05 fps, Avg. Travel Time= 117.7 min

Peak Storage= 483 cf @ 12.79 hrs

Average Depth at Peak Storage= 0.05' , Surface Width= 25.50'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 19.23 cfs

25.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 35.00'

Length= 380.0' Slope= 0.0368 '/'

Inlet Invert= 200.00', Outlet Invert= 186.00'



Summary for Reach 10R: OVERLAND FLOW

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth = 0.00" for 2YR event

Inflow = 0.00 cfs @ 12.69 hrs, Volume= 1 cf

Outflow = 0.00 cfs @ 12.90 hrs, Volume= 1 cf, Atten= 85%, Lag= 12.4 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.03 fps, Min. Travel Time= 83.2 min

Avg. Velocity = 0.03 fps, Avg. Travel Time= 83.2 min

Peak Storage= 1 cf @ 12.90 hrs

Average Depth at Peak Storage= 0.00' , Surface Width= 20.00'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 17.57 cfs

20.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 40.00'

Length= 164.0' Slope= 0.0366 '/'

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 11R: 4x4 Open Bottom Culvert

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 0.41" for 2YR event

Inflow = 1.79 cfs @ 12.42 hrs, Volume= 16,009 cf

Outflow = 1.79 cfs @ 12.42 hrs, Volume= 16,003 cf, Atten= 0%, Lag= 0.2 min

Routed to Reach 23R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 1.21 fps, Min. Travel Time= 0.4 min

Avg. Velocity = 0.56 fps, Avg. Travel Time= 0.9 min

Peak Storage= 44 cf @ 12.42 hrs

Average Depth at Peak Storage= 0.37' , Surface Width= 4.00'

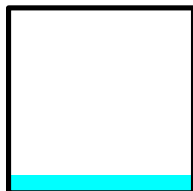
Bank-Full Depth= 4.00' Flow Area= 16.0 sf, Capacity= 42.20 cfs

48.0" W x 48.0" H Box Pipe

n= 0.069 Riprap, 6-inch

Length= 30.0' Slope= 0.0150 '/'

Inlet Invert= 194.00', Outlet Invert= 193.55'



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Summary for Reach 12R: OVERLAND FLOW

Inflow Area = 19,621 sf, 88.70% Impervious, Inflow Depth > 2.06" for 2YR event
Inflow = 1.17 cfs @ 12.13 hrs, Volume= 3,363 cf
Outflow = 0.53 cfs @ 12.37 hrs, Volume= 3,283 cf, Atten= 54%, Lag= 14.4 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.12 fps, Min. Travel Time= 36.0 min
Avg. Velocity = 0.04 fps, Avg. Travel Time= 94.9 min

Peak Storage= 1,149 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.09' , Surface Width= 50.91'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 29.80 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'
Length= 250.0' Slope= 0.0240 ' / '
Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 13R: OVERLAND FLOW

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 1.97" for 2YR event
Inflow = 0.33 cfs @ 12.14 hrs, Volume= 972 cf
Outflow = 0.03 cfs @ 13.39 hrs, Volume= 730 cf, Atten= 91%, Lag= 74.6 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.03 fps, Min. Travel Time= 345.8 min
Avg. Velocity = 0.03 fps, Avg. Travel Time= 429.9 min

Peak Storage= 579 cf @ 13.39 hrs
Average Depth at Peak Storage= 0.02' , Surface Width= 50.35'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 24.73 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 660.0' Slope= 0.0152 ' / '
Inlet Invert= 206.00', Outlet Invert= 196.00'

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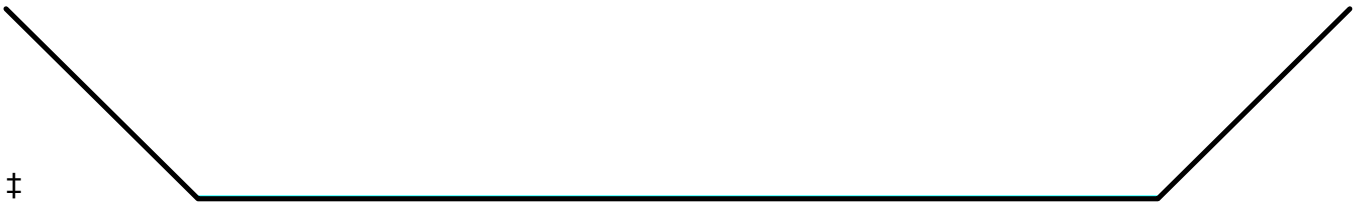
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Summary for Reach 14R: OVERLAND FLOW

Inflow Area = 42,474 sf, 23.18% Impervious, Inflow Depth > 1.26" for 2YR event
Inflow = 0.90 cfs @ 12.29 hrs, Volume= 4,465 cf
Outflow = 0.16 cfs @ 13.49 hrs, Volume= 3,743 cf, Atten= 82%, Lag= 71.9 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.07 fps, Min. Travel Time= 195.4 min
Avg. Velocity = 0.05 fps, Avg. Travel Time= 276.8 min

Peak Storage= 1,888 cf @ 13.49 hrs
Average Depth at Peak Storage= 0.04' , Surface Width= 50.88'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.55 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 852.0' Slope= 0.0246 ' / '
Inlet Invert= 207.00', Outlet Invert= 186.00'



Summary for Reach 15R: OVERLAND FLOW

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 0.86" for 2YR event
Inflow = 0.19 cfs @ 15.89 hrs, Volume= 7,670 cf
Outflow = 0.19 cfs @ 17.05 hrs, Volume= 6,951 cf, Atten= 1%, Lag= 69.4 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.07 fps, Min. Travel Time= 69.0 min
Avg. Velocity = 0.07 fps, Avg. Travel Time= 75.0 min

Peak Storage= 774 cf @ 17.05 hrs
Average Depth at Peak Storage= 0.05' , Surface Width= 50.51'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 27.21 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 300.0' Slope= 0.0200 '/'

Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 16R: OVERLAND FLOW

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 1.67" for 2YR event

Inflow = 0.19 cfs @ 12.13 hrs, Volume= 446 cf

Outflow = 0.03 cfs @ 12.69 hrs, Volume= 429 cf, Atten= 84%, Lag= 33.8 min

Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.04 fps, Min. Travel Time= 111.0 min

Avg. Velocity= 0.03 fps, Avg. Travel Time= 148.0 min

Peak Storage= 201 cf @ 12.69 hrs

Average Depth at Peak Storage= 0.02' , Surface Width= 50.15'

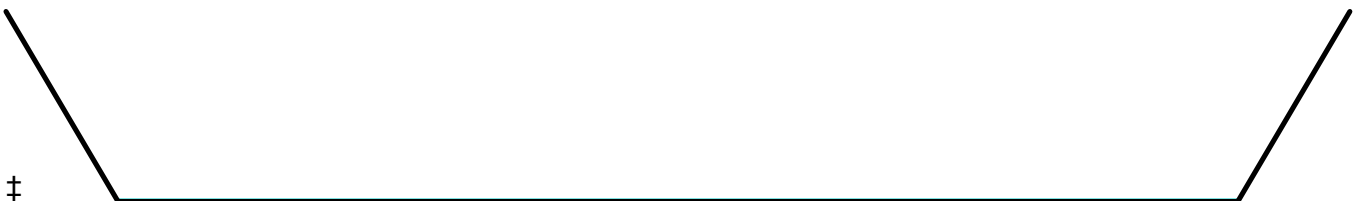
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 31.39 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 263.0' Slope= 0.0266 '/'

Inlet Invert= 216.00', Outlet Invert= 209.00'



Summary for Reach 18R: OVERLAND FLOW

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 1.17" for 2YR event

Inflow = 0.95 cfs @ 13.46 hrs, Volume= 30,449 cf

Outflow = 0.95 cfs @ 13.76 hrs, Volume= 30,055 cf, Atten= 0%, Lag= 18.2 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.16 fps, Min. Travel Time= 19.3 min

Avg. Velocity= 0.09 fps, Avg. Travel Time= 33.3 min

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Peak Storage= 1,105 cf @ 13.76 hrs

Average Depth at Peak Storage= 0.12' , Surface Width= 52.35'

Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 36.29 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 184.0' Slope= 0.0326 '/'

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 20R: OVERLAND FLOW

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth = 0.98" for 2YR event

Inflow = 0.97 cfs @ 12.49 hrs, Volume= 6,069 cf

Outflow = 0.36 cfs @ 13.71 hrs, Volume= 5,655 cf, Atten= 62%, Lag= 73.1 min

Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.07 fps, Min. Travel Time= 124.8 min

Avg. Velocity= 0.05 fps, Avg. Travel Time= 206.9 min

Peak Storage= 2,720 cf @ 13.71 hrs

Average Depth at Peak Storage= 0.10' , Surface Width= 50.96'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 18.54 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 560.0' Slope= 0.0093 '/'

Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach 23R: OVERLAND FLOW

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 0.41" for 2YR event

Inflow = 1.79 cfs @ 12.42 hrs, Volume= 16,003 cf

Outflow = 1.31 cfs @ 12.72 hrs, Volume= 15,641 cf, Atten= 27%, Lag= 17.8 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.15 fps, Min. Travel Time= 25.8 min

Avg. Velocity = 0.07 fps, Avg. Travel Time= 52.8 min

Peak Storage= 2,025 cf @ 12.72 hrs

Average Depth at Peak Storage= 0.16' , Surface Width= 56.42'

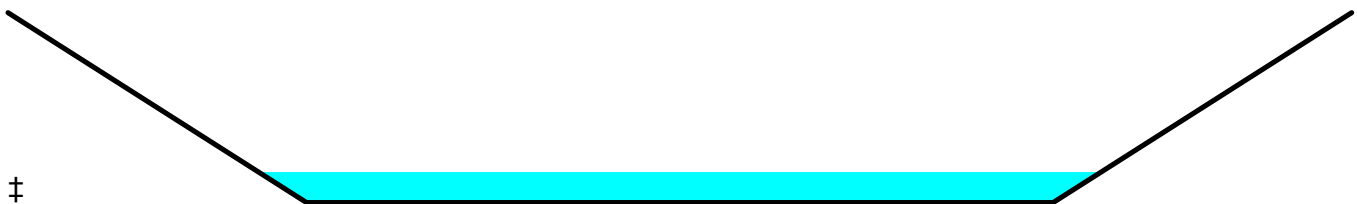
Bank-Full Depth= 1.00' Flow Area= 70.0 sf, Capacity= 31.93 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 20.0 ' / ' Top Width= 90.00'

Length= 237.0' Slope= 0.0211 ' / '

Inlet Invert= 193.00', Outlet Invert= 188.00'



Summary for Reach R202: OVERLAND FLOW

[62] Hint: Exceeded Reach SC1 OUTLET depth by 0.12' @ 13.25 hrs

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 1.32" for 2YR event

Inflow = 9.13 cfs @ 12.32 hrs, Volume= 44,144 cf

Outflow = 3.08 cfs @ 12.84 hrs, Volume= 40,612 cf, Atten= 66%, Lag= 31.2 min

Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.13 fps, Min. Travel Time= 86.8 min

Avg. Velocity = 0.07 fps, Avg. Travel Time= 166.0 min

Peak Storage= 16,038 cf @ 12.84 hrs

Average Depth at Peak Storage= 0.22' , Surface Width= 110.87'

Bank-Full Depth= 1.00' Flow Area= 125.0 sf, Capacity= 42.56 cfs

100.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 25.0 ' / ' Top Width= 150.00'

Length= 700.0' Slope= 0.0107 ' / '

Inlet Invert= 205.50', Outlet Invert= 198.00'



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Summary for Reach R211: OVERLAND FLOW

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth = 0.02" for 2YR event
Inflow = 0.16 cfs @ 12.89 hrs, Volume= 552 cf
Outflow = 0.02 cfs @ 13.97 hrs, Volume= 403 cf, Atten= 86%, Lag= 65.1 min
Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.03 fps, Min. Travel Time= 359.2 min
Avg. Velocity= 0.02 fps, Avg. Travel Time= 502.9 min

Peak Storage= 475 cf @ 13.97 hrs
Average Depth at Peak Storage= 0.02' , Surface Width= 35.67'
Bank-Full Depth= 1.00' Flow Area= 50.0 sf, Capacity= 14.51 cfs

35.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 15.0 ' ' Top Width= 65.00'
Length= 600.0' Slope= 0.0087 ' '
Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach SC1: Stream Crossing #1

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 1.32" for 2YR event
Inflow = 9.14 cfs @ 12.31 hrs, Volume= 44,153 cf
Outflow = 9.13 cfs @ 12.32 hrs, Volume= 44,144 cf, Atten= 0%, Lag= 0.3 min
Routed to Reach R202 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 2.55 fps, Min. Travel Time= 0.3 min
Avg. Velocity= 1.06 fps, Avg. Travel Time= 0.7 min

Peak Storage= 154 cf @ 12.32 hrs
Average Depth at Peak Storage= 0.22' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 69.8 sf, Capacity= 722.91 cfs

192.0" W x 60.0" H, R=207.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 43.1' Slope= 0.0200 ' '
Inlet Invert= 206.37', Outlet Invert= 205.51'

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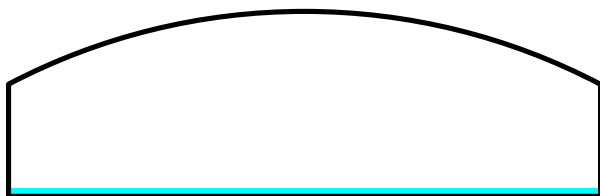
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Summary for Reach SC2: Stream Crossing #2

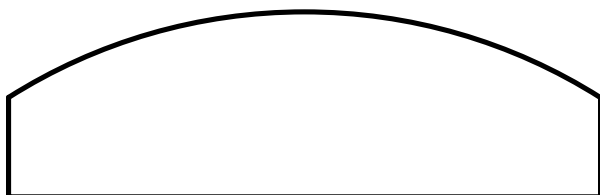
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 38,220 sf, 16.10% Impervious, Inflow Depth > 1.26" for 2YR event
Inflow = 0.78 cfs @ 12.29 hrs, Volume= 4,010 cf
Outflow = 0.78 cfs @ 12.30 hrs, Volume= 4,009 cf, Atten= 0%, Lag= 0.6 min
Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 1.04 fps, Min. Travel Time= 0.6 min
Avg. Velocity= 1.04 fps, Avg. Travel Time= 0.6 min

Peak Storage= 28 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.05' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 68.1 sf, Capacity= 768.96 cfs

192.0" W x 60.0" H, R=180.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 36.5' Slope= 0.0241 '/
Inlet Invert= 208.52', Outlet Invert= 207.64'



Summary for Pond 5R: TRENCH DRAIN

Inflow Area = 9,454 sf, 79.45% Impervious, Inflow Depth > 2.51" for 2YR event
Inflow = 0.60 cfs @ 12.09 hrs, Volume= 1,978 cf
Outflow = 0.60 cfs @ 12.09 hrs, Volume= 1,978 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.60 cfs @ 12.09 hrs, Volume= 1,978 cf
Routed to Pond D34 : DMH #34

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Peak Elev= 197.73' @ 12.09 hrs
Flood Elev= 200.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.00'	15.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 197.00' / 196.88' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

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Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=197.71' TW=197.67' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.59 cfs @ 1.18 fps)**Summary for Pond 11P: YARD DRAIN**

Inflow Area = 21,271 sf, 40.78% Impervious, Inflow Depth > 1.52" for 2YR event
 Inflow = 0.85 cfs @ 12.10 hrs, Volume= 2,699 cf
 Outflow = 0.57 cfs @ 12.20 hrs, Volume= 2,670 cf, Atten= 33%, Lag= 6.1 min
 Primary = 0.57 cfs @ 12.20 hrs, Volume= 2,670 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.33' @ 12.20 hrs Surf.Area= 5,519 sf Storage= 413 cf

Plug-Flow detention time= 21.9 min calculated for 2,670 cf (99% of inflow)

Center-of-Mass det. time= 15.5 min (853.3 - 837.9)

Volume	Invert	Avail.Storage	Storage Description
#1	207.25'	5,475 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.25	5,050	0	0
208.00	9,550	5,475	5,475

Device	Routing	Invert	Outlet Devices
#1	Primary	203.25'	12.0" Round Culvert L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 203.25' / 202.94' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	207.25'	4.0" x 4.0" Horiz. Orifice/Grate X 4.00 columns X 4 rows C= 0.600 in 24.0" x 24.0" Grate (44% open area) Limited to weir flow at low heads

Primary OutFlow Max=0.57 cfs @ 12.20 hrs HW=207.33' TW=202.71' (Dynamic Tailwater)↑**1=Culvert** (Passes 0.57 cfs of 6.56 cfs potential flow)↑**2=Orifice/Grate** (Weir Controls 0.57 cfs @ 0.91 fps)**Summary for Pond CB1: CB#1**

Inflow Area = 26,588 sf, 32.90% Impervious, Inflow Depth > 1.02" for 2YR event
 Inflow = 0.50 cfs @ 12.24 hrs, Volume= 2,268 cf
 Outflow = 0.50 cfs @ 12.24 hrs, Volume= 2,268 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.50 cfs @ 12.24 hrs, Volume= 2,268 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.26' @ 12.24 hrs

Flood Elev= 211.00'

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Device	Routing	Invert	Outlet Devices
#1	Primary	207.83'	12.0" Round Culvert L= 14.1' Ke= 0.500 Inlet / Outlet Invert= 207.83' / 207.76' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.50 cfs @ 12.24 hrs HW=208.26' TW=207.04' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.50 cfs @ 2.29 fps)**Summary for Pond CB10: CB #10**

Inflow Area = 9,660 sf, 94.65% Impervious, Inflow Depth > 2.92" for 2YR event
 Inflow = 0.68 cfs @ 12.09 hrs, Volume= 2,354 cf
 Outflow = 0.68 cfs @ 12.09 hrs, Volume= 2,354 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.68 cfs @ 12.09 hrs, Volume= 2,354 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.26' @ 12.09 hrs

Flood Elev= 212.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.76'	12.0" Round Culvert L= 33.8' Ke= 0.500 Inlet / Outlet Invert= 209.76' / 209.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=210.25' TW=209.88' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.66 cfs @ 2.54 fps)**Summary for Pond CB11: CB #11**

Inflow Area = 13,834 sf, 51.04% Impervious, Inflow Depth > 1.89" for 2YR event
 Inflow = 0.69 cfs @ 12.09 hrs, Volume= 2,184 cf
 Outflow = 0.69 cfs @ 12.09 hrs, Volume= 2,184 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.69 cfs @ 12.09 hrs, Volume= 2,184 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.39' @ 12.09 hrs

Flood Elev= 213.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.94'	12.0" Round Culvert L= 26.3' Ke= 0.500 Inlet / Outlet Invert= 209.94' / 209.67' S= 0.0103 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=210.38' TW=209.89' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.68 cfs @ 2.99 fps)

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Summary for Pond CB12: CB #12

Inflow Area = 9,596 sf, 47.54% Impervious, Inflow Depth > 1.82" for 2YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,452 cf
 Outflow = 0.46 cfs @ 12.09 hrs, Volume= 1,452 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.46 cfs @ 12.09 hrs, Volume= 1,452 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.10' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.0' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=210.10' TW=206.83' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.45 cfs @ 2.23 fps)**Summary for Pond CB13: CB #13**

Inflow Area = 8,572 sf, 67.67% Impervious, Inflow Depth > 2.23" for 2YR event
 Inflow = 0.50 cfs @ 12.09 hrs, Volume= 1,594 cf
 Outflow = 0.50 cfs @ 12.09 hrs, Volume= 1,594 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.50 cfs @ 12.09 hrs, Volume= 1,594 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.12' @ 12.09 hrs

Flood Elev= 212.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.6' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.49 cfs @ 12.09 hrs HW=210.11' TW=206.83' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.49 cfs @ 2.26 fps)**Summary for Pond CB14: CB #14**

Inflow Area = 12,986 sf, 75.60% Impervious, Inflow Depth > 1.82" for 2YR event
 Inflow = 0.62 cfs @ 12.09 hrs, Volume= 1,965 cf
 Outflow = 0.62 cfs @ 12.09 hrs, Volume= 1,965 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.62 cfs @ 12.09 hrs, Volume= 1,965 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 201.34' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 23.2' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.67' S= 0.0052 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=201.33' TW=201.17' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.61 cfs @ 2.05 fps)**Summary for Pond CB15: CB #15**

Inflow Area = 4,895 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.35 cfs @ 12.09 hrs, Volume= 1,238 cf
 Outflow = 0.35 cfs @ 12.09 hrs, Volume= 1,238 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.35 cfs @ 12.09 hrs, Volume= 1,238 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.25' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.71' S= 0.0051 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 12.09 hrs HW=201.24' TW=201.17' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.34 cfs @ 1.45 fps)**Summary for Pond CB16: CB #16**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 1.39" for 2YR event
 Inflow = 0.29 cfs @ 12.10 hrs, Volume= 933 cf
 Outflow = 0.29 cfs @ 12.10 hrs, Volume= 933 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.10 hrs, Volume= 933 cf
 Routed to Pond D10 : DMH #10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.81' @ 12.10 hrs

Flood Elev= 206.64'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.47'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 203.47' / 203.33' S= 0.0067 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.10 hrs HW=203.80' TW=203.65' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.29 cfs @ 1.88 fps)

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Summary for Pond CB17: CB #17

Inflow Area = 11,845 sf, 77.88% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.76 cfs @ 12.09 hrs, Volume= 2,479 cf
 Outflow = 0.76 cfs @ 12.09 hrs, Volume= 2,479 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.76 cfs @ 12.09 hrs, Volume= 2,479 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.49' @ 12.09 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.99'	12.0" Round Culvert L= 13.8' Ke= 0.500 Inlet / Outlet Invert= 204.99' / 204.86' S= 0.0094 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=205.48' TW=205.08' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.74 cfs @ 2.80 fps)**Summary for Pond CB18: CB #18**

Inflow Area = 25,103 sf, 74.55% Impervious, Inflow Depth > 1.89" for 2YR event
 Inflow = 1.31 cfs @ 12.10 hrs, Volume= 3,960 cf
 Outflow = 1.31 cfs @ 12.10 hrs, Volume= 3,960 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.31 cfs @ 12.10 hrs, Volume= 3,960 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.38' @ 12.10 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.72'	15.0" Round Culvert L= 25.1' Ke= 0.500 Inlet / Outlet Invert= 204.72' / 204.59' S= 0.0052 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.31 cfs @ 12.10 hrs HW=205.38' TW=205.09' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.31 cfs @ 2.89 fps)**Summary for Pond CB2: CB#2**

Inflow Area = 19,138 sf, 74.07% Impervious, Inflow Depth > 2.23" for 2YR event
 Inflow = 1.11 cfs @ 12.09 hrs, Volume= 3,559 cf
 Outflow = 1.11 cfs @ 12.09 hrs, Volume= 3,559 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.11 cfs @ 12.09 hrs, Volume= 3,559 cf
 Routed to Pond D1 : DMH#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.50' @ 12.09 hrs

Flood Elev= 208.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.86'	12.0" Round Culvert L= 92.1' Ke= 0.500 Inlet / Outlet Invert= 204.86' / 204.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.09 cfs @ 12.09 hrs HW=205.49' TW=203.93' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.09 cfs @ 2.96 fps)**Summary for Pond CB20: CB #20**

Inflow Area = 11,694 sf, 79.49% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.75 cfs @ 12.09 hrs, Volume= 2,447 cf
 Outflow = 0.75 cfs @ 12.09 hrs, Volume= 2,447 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.75 cfs @ 12.09 hrs, Volume= 2,447 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.49' @ 12.09 hrs

Flood Elev= 207.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.97'	12.0" Round Culvert L= 30.3' Ke= 0.500 Inlet / Outlet Invert= 203.97' / 203.81' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 12.09 hrs HW=204.48' TW=203.93' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.73 cfs @ 2.62 fps)**Summary for Pond CB21: CB #21**

Inflow Area = 9,093 sf, 91.54% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 1,903 cf
 Outflow = 0.58 cfs @ 12.09 hrs, Volume= 1,903 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.58 cfs @ 12.09 hrs, Volume= 1,903 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.78' @ 12.09 hrs

Flood Elev= 208.02'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.32'	12.0" Round Culvert L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 204.32' / 204.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.57 cfs @ 12.09 hrs HW=204.77' TW=203.93' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.57 cfs @ 2.41 fps)

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Summary for Pond CB22: CB #22

Inflow Area = 9,139 sf, 88.07% Impervious, Inflow Depth > 2.82" for 2YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,145 cf
 Outflow = 0.63 cfs @ 12.09 hrs, Volume= 2,145 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.63 cfs @ 12.09 hrs, Volume= 2,145 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.81' @ 12.09 hrs

Flood Elev= 208.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.33'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 205.33' / 205.25' S= 0.0050 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=205.80' TW=205.01' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.61 cfs @ 2.46 fps)**Summary for Pond CB23: CB #23**

Inflow Area = 9,139 sf, 62.65% Impervious, Inflow Depth > 2.14" for 2YR event
 Inflow = 0.51 cfs @ 12.09 hrs, Volume= 1,633 cf
 Outflow = 0.51 cfs @ 12.09 hrs, Volume= 1,633 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.51 cfs @ 12.09 hrs, Volume= 1,633 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.83' @ 12.09 hrs

Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.41'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 205.41' / 205.32' S= 0.0055 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.50 cfs @ 12.09 hrs HW=205.83' TW=205.01' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.50 cfs @ 2.39 fps)**Summary for Pond CB24: CB #24**

Inflow Area = 1,933 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.14 cfs @ 12.09 hrs, Volume= 489 cf
 Outflow = 0.14 cfs @ 12.09 hrs, Volume= 489 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.14 cfs @ 12.09 hrs, Volume= 489 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.47' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.15' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=205.47' TW=205.41' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.13 cfs @ 1.26 fps)**Summary for Pond CB25: CB #25**

Inflow Area = 8,811 sf, 96.03% Impervious, Inflow Depth > 2.92" for 2YR event
 Inflow = 0.62 cfs @ 12.09 hrs, Volume= 2,147 cf
 Outflow = 0.62 cfs @ 12.09 hrs, Volume= 2,147 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.62 cfs @ 12.09 hrs, Volume= 2,147 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.70' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.22'	12.0" Round Culvert L= 11.4' Ke= 0.500 Inlet / Outlet Invert= 205.22' / 205.16' S= 0.0053 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=205.69' TW=205.41' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.60 cfs @ 2.44 fps)**Summary for Pond CB26: CB #26**

Inflow Area = 14,532 sf, 64.66% Impervious, Inflow Depth > 2.42" for 2YR event
 Inflow = 0.90 cfs @ 12.09 hrs, Volume= 2,925 cf
 Outflow = 0.90 cfs @ 12.09 hrs, Volume= 2,925 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.90 cfs @ 12.09 hrs, Volume= 2,925 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.35' @ 12.09 hrs

Flood Elev= 204.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.77'	12.0" Round Culvert L= 42.5' Ke= 0.500 Inlet / Outlet Invert= 201.77' / 201.55' S= 0.0052 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.88 cfs @ 12.09 hrs HW=202.34' TW=201.22' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.88 cfs @ 2.77 fps)

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Summary for Pond CB27: CB #27

Inflow Area = 9,808 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,481 cf
 Outflow = 0.70 cfs @ 12.09 hrs, Volume= 2,481 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,481 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.51' @ 12.09 hrs

Flood Elev= 204.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.00'	12.0" Round Culvert L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 201.00' / 200.90' S= 0.0056 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=201.50' TW=201.22' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.68 cfs @ 2.54 fps)**Summary for Pond CB28: CB #28**

Inflow Area = 10,368 sf, 51.34% Impervious, Inflow Depth > 2.06" for 2YR event
 Inflow = 0.56 cfs @ 12.09 hrs, Volume= 1,778 cf
 Outflow = 0.56 cfs @ 12.09 hrs, Volume= 1,778 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.56 cfs @ 12.09 hrs, Volume= 1,778 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 198.30' @ 12.09 hrs

Flood Elev= 200.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.75'	12.0" Round Culvert L= 13.7' Ke= 0.500 Inlet / Outlet Invert= 197.75' / 197.69' S= 0.0044 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.09 hrs HW=198.29' TW=198.19' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.55 cfs @ 1.82 fps)**Summary for Pond CB29: CB #29**

Inflow Area = 6,798 sf, 77.21% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,423 cf
 Outflow = 0.43 cfs @ 12.09 hrs, Volume= 1,423 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.43 cfs @ 12.09 hrs, Volume= 1,423 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.86' @ 12.09 hrs

Flood Elev= 208.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 13.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.31' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.42 cfs @ 12.09 hrs HW=205.85' TW=205.76' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.42 cfs @ 1.69 fps)**Summary for Pond CB3: CB#3**

Inflow Area = 17,454 sf, 72.05% Impervious, Inflow Depth > 2.06" for 2YR event
 Inflow = 0.94 cfs @ 12.09 hrs, Volume= 2,994 cf
 Outflow = 0.94 cfs @ 12.09 hrs, Volume= 2,994 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.94 cfs @ 12.09 hrs, Volume= 2,994 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.41' @ 12.09 hrs

Flood Elev= 210.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	12.0" Round Culvert L= 10.2' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.74' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.92 cfs @ 12.09 hrs HW=208.40' TW=207.04' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.92 cfs @ 2.70 fps)**Summary for Pond CB30: CB #30**

Inflow Area = 12,141 sf, 63.92% Impervious, Inflow Depth > 2.14" for 2YR event
 Inflow = 0.68 cfs @ 12.09 hrs, Volume= 2,169 cf
 Outflow = 0.68 cfs @ 12.09 hrs, Volume= 2,169 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.68 cfs @ 12.09 hrs, Volume= 2,169 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.93' @ 12.09 hrs

Flood Elev= 208.54'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 17.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.29' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.67 cfs @ 12.09 hrs HW=205.93' TW=205.76' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.67 cfs @ 2.20 fps)

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Summary for Pond CB31: CB #31

Inflow Area = 11,736 sf, 71.29% Impervious, Inflow Depth > 2.32" for 2YR event
 Inflow = 0.71 cfs @ 12.09 hrs, Volume= 2,271 cf
 Outflow = 0.71 cfs @ 12.09 hrs, Volume= 2,271 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.71 cfs @ 12.09 hrs, Volume= 2,271 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.71' @ 12.09 hrs

Flood Elev= 207.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.69 cfs @ 12.09 hrs HW=204.70' TW=203.98' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.69 cfs @ 2.49 fps)**Summary for Pond CB32: CB #32**

Inflow Area = 10,801 sf, 62.85% Impervious, Inflow Depth > 2.14" for 2YR event
 Inflow = 0.61 cfs @ 12.09 hrs, Volume= 1,930 cf
 Outflow = 0.61 cfs @ 12.09 hrs, Volume= 1,930 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.09 hrs, Volume= 1,930 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.67' @ 12.09 hrs

Flood Elev= 207.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=204.66' TW=203.98' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.40 fps)**Summary for Pond CB33: CB #33**

Inflow Area = 4,514 sf, 77.96% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 945 cf
 Outflow = 0.29 cfs @ 12.09 hrs, Volume= 945 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.09 hrs, Volume= 945 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.61' @ 12.09 hrs

Flood Elev= 208.45'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.28'	12.0" Round Culvert L= 11.7' Ke= 0.500 Inlet / Outlet Invert= 205.28' / 205.22' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.09 hrs HW=205.61' TW=205.48' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.28 cfs @ 1.89 fps)**Summary for Pond CB34: CB #34**

Inflow Area = 7,027 sf, 72.62% Impervious, Inflow Depth > 2.32" for 2YR event
 Inflow = 0.42 cfs @ 12.09 hrs, Volume= 1,360 cf
 Outflow = 0.42 cfs @ 12.09 hrs, Volume= 1,360 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.42 cfs @ 12.09 hrs, Volume= 1,360 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.63' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 16.5' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.13' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.09 hrs HW=205.62' TW=205.48' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.41 cfs @ 1.98 fps)**Summary for Pond CB35: CB #35**

Inflow Area = 2,891 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.21 cfs @ 12.09 hrs, Volume= 731 cf
 Outflow = 0.21 cfs @ 12.09 hrs, Volume= 731 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.21 cfs @ 12.09 hrs, Volume= 731 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.31' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 15.2' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=207.30' TW=207.10' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.20 cfs @ 1.83 fps)

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Summary for Pond CB36: CB #36

Inflow Area = 6,622 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.47 cfs @ 12.09 hrs, Volume= 1,675 cf
 Outflow = 0.47 cfs @ 12.09 hrs, Volume= 1,675 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.47 cfs @ 12.09 hrs, Volume= 1,675 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.45' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 12.09 hrs HW=207.45' TW=207.10' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.46 cfs @ 2.25 fps)**Summary for Pond CB37: CB #37**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 2.92" for 2YR event
 Inflow = 0.09 cfs @ 12.09 hrs, Volume= 307 cf
 Outflow = 0.09 cfs @ 12.09 hrs, Volume= 307 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.09 cfs @ 12.09 hrs, Volume= 307 cf
 Routed to Pond D24 : DMH #24

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.22' @ 12.09 hrs

Flood Elev= 212.66'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.07'	12.0" Round Culvert L= 77.2' Ke= 0.500 Inlet / Outlet Invert= 209.07' / 208.31' S= 0.0098 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.09 cfs @ 12.09 hrs HW=209.22' TW=208.36' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.09 cfs @ 1.85 fps)**Summary for Pond CB38: CB #38**

Inflow Area = 19,951 sf, 77.05% Impervious, Inflow Depth > 2.23" for 2YR event
 Inflow = 1.16 cfs @ 12.09 hrs, Volume= 3,710 cf
 Outflow = 1.16 cfs @ 12.09 hrs, Volume= 3,710 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.16 cfs @ 12.09 hrs, Volume= 3,710 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.37' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.7' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0048 ' S= 0.0048 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=210.36' TW=209.52' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.13 cfs @ 2.86 fps)**Summary for Pond CB39: CB #39**

Inflow Area = 7,773 sf, 98.44% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.55 cfs @ 12.09 hrs, Volume= 1,966 cf
 Outflow = 0.55 cfs @ 12.09 hrs, Volume= 1,966 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.55 cfs @ 12.09 hrs, Volume= 1,966 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.14' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0049 ' S= 0.0049 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.54 cfs @ 12.09 hrs HW=210.14' TW=209.51' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.54 cfs @ 2.34 fps)**Summary for Pond CB4: CB#4**

Inflow Area = 44,168 sf, 23.30% Impervious, Inflow Depth > 0.81" for 2YR event
 Inflow = 0.56 cfs @ 12.34 hrs, Volume= 2,997 cf
 Outflow = 0.56 cfs @ 12.34 hrs, Volume= 2,997 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.56 cfs @ 12.34 hrs, Volume= 2,997 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.44' @ 12.34 hrs

Flood Elev= 215.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.02'	15.0" Round Culvert L= 13.1' Ke= 0.500 Inlet / Outlet Invert= 212.02' / 211.96' S= 0.0046 ' S= 0.0046 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.56 cfs @ 12.34 hrs HW=212.44' TW=211.55' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.56 cfs @ 2.29 fps)

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Summary for Pond CB40: CB #40

Inflow Area = 4,556 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,152 cf
 Outflow = 0.32 cfs @ 12.09 hrs, Volume= 1,152 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.32 cfs @ 12.09 hrs, Volume= 1,152 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.09' @ 12.09 hrs

Flood Elev= 216.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.68'	12.0" Round Culvert L= 26.7' Ke= 0.500 Inlet / Outlet Invert= 213.68' / 213.55' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.09 hrs HW=214.08' TW=213.97' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.32 cfs @ 1.58 fps)**Summary for Pond CB41: CB #41**

Inflow Area = 12,750 sf, 69.28% Impervious, Inflow Depth > 1.98" for 2YR event
 Inflow = 0.66 cfs @ 12.09 hrs, Volume= 2,099 cf
 Outflow = 0.66 cfs @ 12.09 hrs, Volume= 2,099 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.66 cfs @ 12.09 hrs, Volume= 2,099 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.39' @ 12.09 hrs

Flood Elev= 217.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.89'	12.0" Round Culvert L= 18.4' Ke= 0.500 Inlet / Outlet Invert= 213.89' / 213.80' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.65 cfs @ 12.09 hrs HW=214.38' TW=213.97' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.65 cfs @ 2.46 fps)**Summary for Pond CB42: CB #42**

Inflow Area = 11,277 sf, 36.51% Impervious, Inflow Depth > 1.14" for 2YR event
 Inflow = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf
 Outflow = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.33 cfs @ 12.10 hrs, Volume= 1,072 cf
 Routed to Pond D28 : DMH #28

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 218.21' @ 12.10 hrs

Flood Elev= 221.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.91'	12.0" Round Culvert L= 58.1' Ke= 0.500 Inlet / Outlet Invert= 217.91' / 217.47' S= 0.0076 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.33 cfs @ 12.10 hrs HW=218.21' TW=217.58' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.33 cfs @ 2.43 fps)**Summary for Pond CB43: CB #43**

Inflow Area = 4,084 sf, 81.61% Impervious, Inflow Depth > 2.32" for 2YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 790 cf
 Outflow = 0.25 cfs @ 12.09 hrs, Volume= 790 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.09 hrs, Volume= 790 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.33' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.24 cfs @ 12.09 hrs HW=220.32' TW=220.22' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.24 cfs @ 1.64 fps)**Summary for Pond CB44: CB #44**

Inflow Area = 1,662 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.12 cfs @ 12.09 hrs, Volume= 420 cf
 Outflow = 0.12 cfs @ 12.09 hrs, Volume= 420 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.12 cfs @ 12.09 hrs, Volume= 420 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.27' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.12 cfs @ 12.09 hrs HW=220.26' TW=220.22' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.12 cfs @ 1.05 fps)

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Summary for Pond CB45: CB #45

Inflow Area = 2,109 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.15 cfs @ 12.09 hrs, Volume= 533 cf
 Outflow = 0.15 cfs @ 12.09 hrs, Volume= 533 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.15 cfs @ 12.09 hrs, Volume= 533 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.52' @ 12.09 hrs

Flood Elev= 224.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.29'	12.0" Round Culvert L= 18.2' Ke= 0.500 Inlet / Outlet Invert= 221.29' / 221.20' S= 0.0049 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.09 hrs HW=221.51' TW=221.20' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.15 cfs @ 1.67 fps)**Summary for Pond CB46: CB #46**

Inflow Area = 1,371 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.10 cfs @ 12.09 hrs, Volume= 347 cf
 Outflow = 0.10 cfs @ 12.09 hrs, Volume= 347 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.10 cfs @ 12.09 hrs, Volume= 347 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.71' @ 12.09 hrs

Flood Elev= 224.69'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.53'	12.0" Round Culvert L= 15.3' Ke= 0.500 Inlet / Outlet Invert= 221.53' / 221.45' S= 0.0052 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.09 cfs @ 12.09 hrs HW=221.71' TW=221.20' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.09 cfs @ 1.50 fps)**Summary for Pond CB47: CB#47**

Inflow Area = 3,060 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.22 cfs @ 12.09 hrs, Volume= 774 cf
 Outflow = 0.22 cfs @ 12.09 hrs, Volume= 774 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.22 cfs @ 12.09 hrs, Volume= 774 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 225.28' @ 12.09 hrs

Flood Elev= 228.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	225.05'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 225.05' / 224.27' S= 0.0373 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 12.09 hrs HW=225.27' TW=224.39' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.21 cfs @ 1.61 fps)**Summary for Pond CB48: CB#48**

Inflow Area = 60,166 sf, 25.94% Impervious, Inflow Depth > 0.87" for 2YR event
 Inflow = 1.03 cfs @ 12.19 hrs, Volume= 4,345 cf
 Outflow = 1.03 cfs @ 12.19 hrs, Volume= 4,345 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.19 hrs, Volume= 4,345 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 224.95' @ 12.19 hrs

Flood Elev= 228.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	224.47'	15.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 224.47' / 224.00' S= 0.0278 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.01 cfs @ 12.19 hrs HW=224.95' TW=224.45' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.01 cfs @ 2.35 fps)**Summary for Pond CB49: CB#49**

Inflow Area = 5,895 sf, 28.14% Impervious, Inflow Depth > 0.92" for 2YR event
 Inflow = 0.13 cfs @ 12.10 hrs, Volume= 452 cf
 Outflow = 0.13 cfs @ 12.10 hrs, Volume= 452 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.13 cfs @ 12.10 hrs, Volume= 452 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 216.48' @ 12.10 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	216.30'	12.0" Round Culvert L= 15.4' Ke= 0.500 Inlet / Outlet Invert= 216.30' / 216.06' S= 0.0156 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.10 hrs HW=216.47' TW=214.85' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.13 cfs @ 1.42 fps)

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Summary for Pond CB5: CB#5

Inflow Area = 1,456 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.10 cfs @ 12.09 hrs, Volume= 368 cf
 Outflow = 0.10 cfs @ 12.09 hrs, Volume= 368 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.10 cfs @ 12.09 hrs, Volume= 368 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.29' @ 12.09 hrs

Flood Elev= 215.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.11'	12.0" Round Culvert L= 30.5' Ke= 0.500 Inlet / Outlet Invert= 212.11' / 211.96' S= 0.0049 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.10 cfs @ 12.09 hrs HW=212.29' TW=211.54' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.10 cfs @ 1.59 fps)**Summary for Pond CB50: CB#50**

Inflow Area = 5,175 sf, 33.29% Impervious, Inflow Depth > 0.97" for 2YR event
 Inflow = 0.12 cfs @ 12.10 hrs, Volume= 419 cf
 Outflow = 0.12 cfs @ 12.10 hrs, Volume= 419 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.12 cfs @ 12.10 hrs, Volume= 419 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.53' @ 12.10 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	215.36'	12.0" Round Culvert L= 17.3' Ke= 0.500 Inlet / Outlet Invert= 215.36' / 214.50' S= 0.0497 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.12 cfs @ 12.10 hrs HW=215.53' TW=214.85' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.12 cfs @ 1.40 fps)**Summary for Pond CB51: CB #51**

Inflow Area = 9,779 sf, 84.41% Impervious, Inflow Depth > 2.42" for 2YR event
 Inflow = 0.61 cfs @ 12.09 hrs, Volume= 1,968 cf
 Outflow = 0.61 cfs @ 12.09 hrs, Volume= 1,968 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.09 hrs, Volume= 1,968 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.08' @ 12.09 hrs

Flood Elev= 212.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	12.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 209.60' / 209.52' S= 0.0047 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=210.07' TW=207.90' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.59 cfs @ 2.39 fps)**Summary for Pond CB6: CB#6**

Inflow Area = 1,821 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 461 cf
 Outflow = 0.13 cfs @ 12.09 hrs, Volume= 461 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.13 cfs @ 12.09 hrs, Volume= 461 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.56' @ 12.09 hrs

Flood Elev= 215.73'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.39'	12.0" Round Culvert L= 38.3' Ke= 0.500 Inlet / Outlet Invert= 212.39' / 211.96' S= 0.0112 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=212.56' TW=211.54' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.13 cfs @ 1.41 fps)**Summary for Pond CB7: CB#7**

Inflow Area = 12,883 sf, 48.58% Impervious, Inflow Depth > 1.39" for 2YR event
 Inflow = 0.47 cfs @ 12.10 hrs, Volume= 1,490 cf
 Outflow = 0.47 cfs @ 12.10 hrs, Volume= 1,490 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.47 cfs @ 12.10 hrs, Volume= 1,490 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.95' @ 12.10 hrs

Flood Elev= 217.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.60'	12.0" Round Culvert L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 214.60' / 213.68' S= 0.0088 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 12.10 hrs HW=214.95' TW=213.27' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.46 cfs @ 2.87 fps)

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Summary for Pond CB8: CB#8

Inflow Area = 44,098 sf, 25.01% Impervious, Inflow Depth > 0.86" for 2YR event
 Inflow = 0.64 cfs @ 12.28 hrs, Volume= 3,178 cf
 Outflow = 0.64 cfs @ 12.28 hrs, Volume= 3,178 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.64 cfs @ 12.28 hrs, Volume= 3,178 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.55' @ 12.28 hrs

Flood Elev= 217.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.06'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 214.06' / 214.00' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.64 cfs @ 12.28 hrs HW=214.55' TW=213.26' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.64 cfs @ 2.42 fps)**Summary for Pond CB9: CB #9**

Inflow Area = 14,681 sf, 77.77% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.94 cfs @ 12.09 hrs, Volume= 3,072 cf
 Outflow = 0.94 cfs @ 12.09 hrs, Volume= 3,072 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.94 cfs @ 12.09 hrs, Volume= 3,072 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.60' @ 12.09 hrs

Flood Elev= 213.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.10'	12.0" Round Culvert L= 19.9' Ke= 0.500 Inlet / Outlet Invert= 210.10' / 209.71' S= 0.0196 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.92 cfs @ 12.09 hrs HW=210.59' TW=209.88' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.92 cfs @ 2.39 fps)**Summary for Pond D1: DMH#1**

Inflow Area = 241,902 sf, 36.54% Impervious, Inflow Depth > 1.16" for 2YR event
 Inflow = 4.94 cfs @ 12.12 hrs, Volume= 23,305 cf
 Outflow = 4.94 cfs @ 12.12 hrs, Volume= 23,305 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.94 cfs @ 12.12 hrs, Volume= 23,305 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 203.96' @ 12.12 hrs

Flood Elev= 209.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	202.90'	30.0" Round Culvert L= 24.6' Ke= 0.500 Inlet / Outlet Invert= 202.90' / 202.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=4.83 cfs @ 12.12 hrs HW=203.95' TW=198.10' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 4.83 cfs @ 3.64 fps)**Summary for Pond D10: DMH #10**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 1.39" for 2YR event
 Inflow = 0.29 cfs @ 12.10 hrs, Volume= 933 cf
 Outflow = 0.29 cfs @ 12.10 hrs, Volume= 933 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.10 hrs, Volume= 933 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.65' @ 12.10 hrs

Flood Elev= 206.49'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.33'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 203.33' / 203.25' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.10 hrs HW=203.65' TW=197.08' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.29 cfs @ 2.01 fps)**Summary for Pond D11: DMH #11**

Inflow Area = 36,948 sf, 75.62% Impervious, Inflow Depth > 2.09" for 2YR event
 Inflow = 2.07 cfs @ 12.09 hrs, Volume= 6,439 cf
 Outflow = 2.07 cfs @ 12.09 hrs, Volume= 6,439 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.07 cfs @ 12.09 hrs, Volume= 6,439 cf
 Routed to Pond OCS3 : OCS#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.09' @ 12.09 hrs

Flood Elev= 208.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.25'	15.0" Round Culvert L= 44.6' Ke= 0.500 Inlet / Outlet Invert= 204.25' / 204.03' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.04 cfs @ 12.09 hrs HW=205.09' TW=203.95' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.04 cfs @ 3.30 fps)

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Summary for Pond D12: DMH #12

Inflow Area = 20,787 sf, 84.76% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 1.33 cfs @ 12.09 hrs, Volume= 4,350 cf
 Outflow = 1.33 cfs @ 12.09 hrs, Volume= 4,350 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.33 cfs @ 12.09 hrs, Volume= 4,350 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.94' @ 12.09 hrs

Flood Elev= 207.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.21'	12.0" Round Culvert L= 41.9' Ke= 0.500 Inlet / Outlet Invert= 203.21' / 203.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.30 cfs @ 12.09 hrs HW=203.93' TW=202.88' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.30 cfs @ 3.02 fps)**Summary for Pond D13: DMH #13**

Inflow Area = 71,080 sf, 70.99% Impervious, Inflow Depth > 2.27" for 2YR event
 Inflow = 3.67 cfs @ 12.09 hrs, Volume= 13,434 cf
 Outflow = 3.67 cfs @ 12.09 hrs, Volume= 13,434 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.67 cfs @ 12.09 hrs, Volume= 13,434 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.89' @ 12.09 hrs

Flood Elev= 208.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.95'	24.0" Round Culvert L= 60.1' Ke= 0.500 Inlet / Outlet Invert= 201.95' / 201.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.62 cfs @ 12.09 hrs HW=202.89' TW=197.08' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.62 cfs @ 3.67 fps)**Summary for Pond D14: DMH #14**

Inflow Area = 29,022 sf, 83.28% Impervious, Inflow Depth > 2.65" for 2YR event
 Inflow = 1.90 cfs @ 12.09 hrs, Volume= 6,414 cf
 Outflow = 1.90 cfs @ 12.09 hrs, Volume= 6,414 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.90 cfs @ 12.09 hrs, Volume= 6,414 cf
 Routed to Pond d13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.02' @ 12.09 hrs

Flood Elev= 208.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.28'	15.0" Round Culvert L= 246.6' Ke= 0.500 Inlet / Outlet Invert= 204.28' / 203.05' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.85 cfs @ 12.09 hrs HW=205.01' TW=202.88' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.85 cfs @ 3.60 fps)**Summary for Pond D16: DMH #16**

Inflow Area = 10,744 sf, 96.74% Impervious, Inflow Depth > 2.94" for 2YR event
 Inflow = 0.76 cfs @ 12.09 hrs, Volume= 2,636 cf
 Outflow = 0.76 cfs @ 12.09 hrs, Volume= 2,636 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.76 cfs @ 12.09 hrs, Volume= 2,636 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.42' @ 12.09 hrs

Flood Elev= 208.59'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.90'	15.0" Round Culvert L= 103.5' Ke= 0.500 Inlet / Outlet Invert= 204.90' / 204.38' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=205.41' TW=205.01' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.74 cfs @ 2.31 fps)**Summary for Pond D17: DMH #17**

Inflow Area = 24,340 sf, 78.90% Impervious, Inflow Depth > 2.67" for 2YR event
 Inflow = 1.60 cfs @ 12.09 hrs, Volume= 5,406 cf
 Outflow = 1.60 cfs @ 12.09 hrs, Volume= 5,406 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.60 cfs @ 12.09 hrs, Volume= 5,406 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.23' @ 12.09 hrs

Flood Elev= 204.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.55'	12.0" Round Culvert L= 91.6' Ke= 0.500 Inlet / Outlet Invert= 200.55' / 197.69' S= 0.0312 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.56 cfs @ 12.09 hrs HW=201.22' TW=198.19' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.56 cfs @ 2.79 fps)

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Summary for Pond D18: DMH #18

Inflow Area = 34,708 sf, 70.67% Impervious, Inflow Depth > 2.48" for 2YR event
 Inflow = 2.16 cfs @ 12.09 hrs, Volume= 7,184 cf
 Outflow = 2.16 cfs @ 12.09 hrs, Volume= 7,184 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.16 cfs @ 12.09 hrs, Volume= 7,184 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 198.20' @ 12.09 hrs

Flood Elev= 201.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.44'	15.0" Round Culvert L= 46.3' Ke= 0.500 Inlet / Outlet Invert= 197.44' / 196.98' S= 0.0099 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.11 cfs @ 12.09 hrs HW=198.19' TW=195.90' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.11 cfs @ 3.94 fps)**Summary for Pond D19: DMH #19**

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 2.28" for 2YR event
 Inflow = 1.12 cfs @ 12.09 hrs, Volume= 3,592 cf
 Outflow = 1.12 cfs @ 12.09 hrs, Volume= 3,592 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.12 cfs @ 12.09 hrs, Volume= 3,592 cf
 Routed to Pond d20 : DMH #20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.77' @ 12.09 hrs

Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.19'	12.0" Round Culvert L= 82.5' Ke= 0.500 Inlet / Outlet Invert= 205.19' / 204.43' S= 0.0092 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.09 cfs @ 12.09 hrs HW=205.76' TW=204.97' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.09 cfs @ 3.38 fps)**Summary for Pond D2: DMH#2**

Inflow Area = 222,764 sf, 33.32% Impervious, Inflow Depth > 1.06" for 2YR event
 Inflow = 3.90 cfs @ 12.16 hrs, Volume= 19,746 cf
 Outflow = 3.90 cfs @ 12.16 hrs, Volume= 19,746 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.90 cfs @ 12.16 hrs, Volume= 19,746 cf
 Routed to Pond D1 : DMH#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.07' @ 12.16 hrs

Flood Elev= 211.04'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.29'	30.0" Round Culvert L= 129.9' Ke= 0.500 Inlet / Outlet Invert= 206.29' / 204.41' S= 0.0145 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=3.89 cfs @ 12.16 hrs HW=207.07' TW=203.94' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 3.89 cfs @ 3.00 fps)**Summary for Pond D20: DMH #20**

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 2.28" for 2YR event
 Inflow = 1.12 cfs @ 12.09 hrs, Volume= 3,592 cf
 Outflow = 1.12 cfs @ 12.09 hrs, Volume= 3,592 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.12 cfs @ 12.09 hrs, Volume= 3,592 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.98' @ 12.09 hrs

Flood Elev= 207.68'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.33'	12.0" Round Culvert L= 63.5' Ke= 0.500 Inlet / Outlet Invert= 204.33' / 204.02' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.09 cfs @ 12.09 hrs HW=204.97' TW=203.98' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.09 cfs @ 2.92 fps)**Summary for Pond D21: DMH #21**

Inflow Area = 63,788 sf, 74.43% Impervious, Inflow Depth > 2.41" for 2YR event
 Inflow = 3.90 cfs @ 12.09 hrs, Volume= 12,810 cf
 Outflow = 3.90 cfs @ 12.09 hrs, Volume= 12,810 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.90 cfs @ 12.09 hrs, Volume= 12,810 cf
 Routed to Pond p212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.99' @ 12.09 hrs

Flood Elev= 207.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.02'	24.0" Round Culvert L= 72.4' Ke= 0.500 Inlet / Outlet Invert= 203.02' / 202.66' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.81 cfs @ 12.09 hrs HW=203.98' TW=200.65' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.81 cfs @ 3.76 fps)

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Summary for Pond D22: DMH #22

Inflow Area = 22,312 sf, 86.56% Impervious, Inflow Depth > 2.70" for 2YR event
 Inflow = 1.48 cfs @ 12.09 hrs, Volume= 5,017 cf
 Outflow = 1.48 cfs @ 12.09 hrs, Volume= 5,017 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.48 cfs @ 12.09 hrs, Volume= 5,017 cf
 Routed to Pond d21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.49' @ 12.09 hrs

Flood Elev= 208.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.87'	15.0" Round Culvert L= 134.2' Ke= 0.500 Inlet / Outlet Invert= 204.87' / 203.92' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.44 cfs @ 12.09 hrs HW=205.48' TW=203.98' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.44 cfs @ 3.53 fps)**Summary for Pond D23: DMH #23**

Inflow Area = 10,771 sf, 99.27% Impervious, Inflow Depth > 3.02" for 2YR event
 Inflow = 0.77 cfs @ 12.09 hrs, Volume= 2,713 cf
 Outflow = 0.77 cfs @ 12.09 hrs, Volume= 2,713 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.77 cfs @ 12.09 hrs, Volume= 2,713 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.11' @ 12.09 hrs

Flood Elev= 210.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.70'	15.0" Round Culvert L= 173.3' Ke= 0.500 Inlet / Outlet Invert= 206.70' / 204.97' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.75 cfs @ 12.09 hrs HW=207.10' TW=205.48' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.75 cfs @ 3.23 fps)**Summary for Pond D24: DMH #24**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 2.92" for 2YR event
 Inflow = 0.09 cfs @ 12.09 hrs, Volume= 307 cf
 Outflow = 0.09 cfs @ 12.09 hrs, Volume= 307 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.09 cfs @ 12.09 hrs, Volume= 307 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.37' @ 12.09 hrs

Flood Elev= 211.62'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.21'	12.0" Round Culvert L= 140.9' Ke= 0.500 Inlet / Outlet Invert= 208.21' / 207.13' S= 0.0077 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.09 cfs @ 12.09 hrs HW=208.36' TW=207.10' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.09 cfs @ 1.71 fps)**Summary for Pond D25: DMH #25**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 2.21" for 2YR event
 Inflow = 3.64 cfs @ 12.09 hrs, Volume= 12,090 cf
 Outflow = 3.64 cfs @ 12.09 hrs, Volume= 12,090 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.64 cfs @ 12.09 hrs, Volume= 12,090 cf
 Routed to Pond D26 : DMH #26

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.53' @ 12.09 hrs

Flood Elev= 213.11'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	18.0" Round Culvert L= 78.6' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.10' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.56 cfs @ 12.09 hrs HW=209.52' TW=208.57' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.56 cfs @ 3.94 fps)**Summary for Pond D26: DMH #26**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 2.21" for 2YR event
 Inflow = 3.64 cfs @ 12.09 hrs, Volume= 12,090 cf
 Outflow = 3.64 cfs @ 12.09 hrs, Volume= 12,090 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.64 cfs @ 12.09 hrs, Volume= 12,090 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.58' @ 12.09 hrs

Flood Elev= 213.71'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.60'	24.0" Round Culvert L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 207.60' / 206.97' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.56 cfs @ 12.09 hrs HW=208.57' TW=207.90' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 3.56 cfs @ 3.45 fps)

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Summary for Pond D27: DMH #27

Inflow Area = 37,809 sf, 68.72% Impervious, Inflow Depth > 2.04" for 2YR event
 Inflow = 1.92 cfs @ 12.09 hrs, Volume= 6,414 cf
 Outflow = 1.92 cfs @ 12.09 hrs, Volume= 6,414 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.92 cfs @ 12.09 hrs, Volume= 6,414 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.98' @ 12.09 hrs

Flood Elev= 217.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.30'	15.0" Round Culvert L= 247.1' Ke= 0.500 Inlet / Outlet Invert= 213.30' / 208.48' S= 0.0195 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.88 cfs @ 12.09 hrs HW=213.97' TW=209.52' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.88 cfs @ 2.79 fps)**Summary for Pond D28: DMH #28**

Inflow Area = 20,503 sf, 61.42% Impervious, Inflow Depth > 1.85" for 2YR event
 Inflow = 0.94 cfs @ 12.09 hrs, Volume= 3,163 cf
 Outflow = 0.94 cfs @ 12.09 hrs, Volume= 3,163 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.94 cfs @ 12.09 hrs, Volume= 3,163 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 217.58' @ 12.09 hrs

Flood Elev= 220.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.12'	15.0" Round Culvert L= 189.5' Ke= 0.500 Inlet / Outlet Invert= 217.12' / 213.40' S= 0.0196 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.92 cfs @ 12.09 hrs HW=217.57' TW=213.97' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.92 cfs @ 2.29 fps)**Summary for Pond D29: DMH #29**

Inflow Area = 9,226 sf, 91.86% Impervious, Inflow Depth > 2.72" for 2YR event
 Inflow = 0.61 cfs @ 12.09 hrs, Volume= 2,091 cf
 Outflow = 0.61 cfs @ 12.09 hrs, Volume= 2,091 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.09 hrs, Volume= 2,091 cf
 Routed to Pond D28 : DMH #28

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 220.22' @ 12.09 hrs

Flood Elev= 223.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	219.83'	12.0" Round Culvert L= 118.4' Ke= 0.500 Inlet / Outlet Invert= 219.83' / 217.54' S= 0.0193 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=220.22' TW=217.57' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.60 cfs @ 2.12 fps)**Summary for Pond D3: DMH#3**

Inflow Area = 178,722 sf, 29.60% Impervious, Inflow Depth > 0.97" for 2YR event
 Inflow = 2.75 cfs @ 12.19 hrs, Volume= 14,484 cf
 Outflow = 2.75 cfs @ 12.19 hrs, Volume= 14,484 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.75 cfs @ 12.19 hrs, Volume= 14,484 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.59' @ 12.19 hrs

Flood Elev= 215.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	24.0" Round Culvert L= 282.0' Ke= 0.500 Inlet / Outlet Invert= 210.90' / 206.79' S= 0.0146 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.74 cfs @ 12.19 hrs HW=211.59' TW=207.06' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.74 cfs @ 2.83 fps)**Summary for Pond D30: DMH #30**

Inflow Area = 3,480 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 880 cf
 Outflow = 0.25 cfs @ 12.09 hrs, Volume= 880 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.09 hrs, Volume= 880 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.21' @ 12.09 hrs

Flood Elev= 224.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.92'	12.0" Round Culvert L= 184.2' Ke= 0.500 Inlet / Outlet Invert= 220.92' / 220.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.24 cfs @ 12.09 hrs HW=221.20' TW=220.22' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.24 cfs @ 2.00 fps)

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Summary for Pond D31: DMH#31

Inflow Area = 63,226 sf, 29.53% Impervious, Inflow Depth > 0.97" for 2YR event
 Inflow = 1.18 cfs @ 12.17 hrs, Volume= 5,119 cf
 Outflow = 1.18 cfs @ 12.17 hrs, Volume= 5,119 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.18 cfs @ 12.17 hrs, Volume= 5,119 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 224.46' @ 12.17 hrs

Flood Elev= 227.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	223.94'	15.0" Round Culvert L= 158.7' Ke= 0.500 Inlet / Outlet Invert= 223.94' / 214.45' S= 0.0598 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.16 cfs @ 12.17 hrs HW=224.45' TW=214.87' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.16 cfs @ 2.44 fps)**Summary for Pond D32: DMH#32**

Inflow Area = 74,296 sf, 29.68% Impervious, Inflow Depth > 0.97" for 2YR event
 Inflow = 1.39 cfs @ 12.16 hrs, Volume= 5,989 cf
 Outflow = 1.39 cfs @ 12.16 hrs, Volume= 5,989 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.39 cfs @ 12.16 hrs, Volume= 5,989 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.88' @ 12.16 hrs

Flood Elev= 219.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.25'	15.0" Round Culvert L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 214.25' / 213.64' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.37 cfs @ 12.16 hrs HW=214.88' TW=213.30' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.37 cfs @ 3.25 fps)**Summary for Pond D33: DMH #33**

Inflow Area = 75,312 sf, 76.03% Impervious, Inflow Depth > 2.24" for 2YR event
 Inflow = 4.24 cfs @ 12.09 hrs, Volume= 14,059 cf
 Outflow = 4.24 cfs @ 12.09 hrs, Volume= 14,059 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.24 cfs @ 12.09 hrs, Volume= 14,059 cf
 Routed to Pond P210 : POCKET WETLAND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.91' @ 12.09 hrs

Flood Elev= 212.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.87'	24.0" Round Culvert L= 39.0' Ke= 0.500 Inlet / Outlet Invert= 206.87' / 206.67' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf

Primary OutFlow Max=4.15 cfs @ 12.09 hrs HW=207.90' TW=202.77' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 4.15 cfs @ 3.72 fps)**Summary for Pond D34: DMH #34**

Inflow Area = 34,553 sf, 94.38% Impervious, Inflow Depth > 2.89" for 2YR event
 Inflow = 2.39 cfs @ 12.09 hrs, Volume= 8,327 cf
 Outflow = 2.39 cfs @ 12.09 hrs, Volume= 8,327 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.39 cfs @ 12.09 hrs, Volume= 8,327 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 197.68' @ 12.09 hrs

Flood Elev= 202.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	196.78'	15.0" Round Culvert L= 51.0' Ke= 0.500 Inlet / Outlet Invert= 196.78' / 196.53' S= 0.0049 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.33 cfs @ 12.09 hrs HW=197.67' TW=195.90' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.33 cfs @ 3.51 fps)**Summary for Pond D4: DMH#4**

Inflow Area = 131,277 sf, 29.96% Impervious, Inflow Depth > 0.97" for 2YR event
 Inflow = 2.24 cfs @ 12.17 hrs, Volume= 10,658 cf
 Outflow = 2.24 cfs @ 12.17 hrs, Volume= 10,658 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.24 cfs @ 12.17 hrs, Volume= 10,658 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.30' @ 12.17 hrs

Flood Elev= 217.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.68'	24.0" Round Culvert L= 131.1' Ke= 0.500 Inlet / Outlet Invert= 212.68' / 211.04' S= 0.0125 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.21 cfs @ 12.17 hrs HW=213.30' TW=211.59' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.21 cfs @ 2.68 fps)

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Summary for Pond D5: DMH #5

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 2.39" for 2YR event
 Inflow = 2.31 cfs @ 12.09 hrs, Volume= 7,610 cf
 Outflow = 2.31 cfs @ 12.09 hrs, Volume= 7,610 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.31 cfs @ 12.09 hrs, Volume= 7,610 cf
 Routed to Pond D6 : DMH #6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.90' @ 12.09 hrs

Flood Elev= 212.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.09'	18.0" Round Culvert L= 183.0' Ke= 0.500 Inlet / Outlet Invert= 209.09' / 208.17' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.25 cfs @ 12.09 hrs HW=209.88' TW=208.84' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.25 cfs @ 3.45 fps)**Summary for Pond D6: DMH #6**

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 2.39" for 2YR event
 Inflow = 2.31 cfs @ 12.09 hrs, Volume= 7,610 cf
 Outflow = 2.31 cfs @ 12.09 hrs, Volume= 7,610 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.31 cfs @ 12.09 hrs, Volume= 7,610 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.85' @ 12.09 hrs

Flood Elev= 214.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.07'	18.0" Round Culvert L= 299.7' Ke= 0.500 Inlet / Outlet Invert= 208.07' / 206.57' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.25 cfs @ 12.09 hrs HW=208.84' TW=206.82' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.25 cfs @ 3.58 fps)**Summary for Pond D7: DMH #7**

Inflow Area = 56,343 sf, 67.42% Impervious, Inflow Depth > 2.27" for 2YR event
 Inflow = 3.27 cfs @ 12.09 hrs, Volume= 10,657 cf
 Outflow = 3.27 cfs @ 12.09 hrs, Volume= 10,657 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.27 cfs @ 12.09 hrs, Volume= 10,657 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.84' @ 12.09 hrs

Flood Elev= 213.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.97'	24.0" Round Culvert L= 101.8' Ke= 0.500 Inlet / Outlet Invert= 205.97' / 205.46' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.19 cfs @ 12.09 hrs HW=206.83' TW=200.65' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.19 cfs @ 3.67 fps)**Summary for Pond D8: DMH #8**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 2.15" for 2YR event
 Inflow = 0.97 cfs @ 12.09 hrs, Volume= 3,203 cf
 Outflow = 0.97 cfs @ 12.09 hrs, Volume= 3,203 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.97 cfs @ 12.09 hrs, Volume= 3,203 cf
 Routed to Pond D9 : DMH #9

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.18' @ 12.09 hrs

Flood Elev= 204.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.57'	12.0" Round Culvert L= 87.7' Ke= 0.500 Inlet / Outlet Invert= 200.57' / 200.13' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.95 cfs @ 12.09 hrs HW=201.17' TW=200.64' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.95 cfs @ 2.75 fps)**Summary for Pond D9: DMH #9**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 2.15" for 2YR event
 Inflow = 0.97 cfs @ 12.09 hrs, Volume= 3,203 cf
 Outflow = 0.97 cfs @ 12.09 hrs, Volume= 3,203 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.97 cfs @ 12.09 hrs, Volume= 3,203 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 200.65' @ 12.09 hrs

Flood Elev= 204.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.03'	12.0" Round Culvert L= 11.9' Ke= 0.500 Inlet / Outlet Invert= 200.03' / 199.97' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.95 cfs @ 12.09 hrs HW=200.64' TW=197.07' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.95 cfs @ 2.69 fps)

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Summary for Pond DE1: DRIP #1

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 596 cf
 Outflow = 0.12 cfs @ 12.18 hrs, Volume= 399 cf, Atten= 31%, Lag= 5.4 min
 Discarded = 0.00 cfs @ 8.00 hrs, Volume= 84 cf
 Primary = 0.12 cfs @ 12.18 hrs, Volume= 315 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 223.76' @ 12.18 hrs Surf.Area= 323 sf Storage= 229 cf

Plug-Flow detention time= 158.3 min calculated for 399 cf (67% of inflow)
 Center-of-Mass det. time= 62.8 min (848.7 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	221.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.99	323	0.0	0	0
222.00	323	40.0	1	1
224.99	323	40.0	386	388
225.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	224.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.50' / 223.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.00 hrs HW=222.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.12 cfs @ 12.18 hrs HW=223.76' TW=218.00' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.12 cfs @ 1.72 fps)

Summary for Pond DE10: DRIP #10

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 550 cf
 Outflow = 0.13 cfs @ 12.16 hrs, Volume= 373 cf, Atten= 19%, Lag= 4.5 min
 Discarded = 0.00 cfs @ 7.60 hrs, Volume= 78 cf
 Primary = 0.13 cfs @ 12.16 hrs, Volume= 295 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.77' @ 12.16 hrs Surf.Area= 290 sf Storage= 207 cf

Plug-Flow detention time= 154.3 min calculated for 372 cf (68% of inflow)

Center-of-Mass det. time= 61.0 min (840.8 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	211.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	290	0.0	0	0
212.00	290	40.0	1	1
214.99	290	40.0	347	348
215.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.60 hrs HW=212.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.13 cfs @ 12.16 hrs HW=213.76' TW=200.88' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.13 cfs @ 1.74 fps)**Summary for Pond DE11: DRIP #11**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.71" for 2YR event

Inflow = 0.18 cfs @ 12.09 hrs, Volume= 619 cf

Outflow = 0.15 cfs @ 12.16 hrs, Volume= 422 cf, Atten= 19%, Lag= 4.5 min

Discarded = 0.00 cfs @ 7.55 hrs, Volume= 87 cf

Primary = 0.15 cfs @ 12.16 hrs, Volume= 335 cf

Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.79' @ 12.16 hrs Surf.Area= 323 sf Storage= 232 cf

Plug-Flow detention time= 154.9 min calculated for 422 cf (68% of inflow)

Center-of-Mass det. time= 60.9 min (840.7 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=211.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.14 cfs @ 12.16 hrs HW=212.78' TW=200.88' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.14 cfs @ 1.79 fps)**Summary for Pond DE12: DRIP #12**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.22 cfs @ 12.09 hrs, Volume= 724 cf
 Outflow = 0.19 cfs @ 12.13 hrs, Volume= 570 cf, Atten= 10%, Lag= 2.4 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 100 cf
 Primary = 0.19 cfs @ 12.13 hrs, Volume= 470 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.04' @ 12.13 hrs Surf.Area= 373 sf Storage= 201 cf

Plug-Flow detention time= 122.9 min calculated for 570 cf (79% of inflow)

Center-of-Mass det. time= 45.3 min (825.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	210.69'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.69	373	0.0	0	0
210.70	373	40.0	1	1
213.69	373	40.0	446	448
213.70	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	213.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 211.70' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 211.70' / 211.65' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 210.69' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=210.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.19 cfs @ 12.13 hrs HW=212.03' TW=200.77' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.19 cfs @ 1.93 fps)**Summary for Pond DE13: DRIP #13**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 2.82" for 2YR event
 Inflow = 0.28 cfs @ 12.09 hrs, Volume= 962 cf
 Outflow = 0.26 cfs @ 12.12 hrs, Volume= 726 cf, Atten= 9%, Lag= 2.3 min
 Discarded = 0.00 cfs @ 6.55 hrs, Volume= 108 cf
 Primary = 0.26 cfs @ 12.12 hrs, Volume= 618 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.90' @ 12.12 hrs Surf.Area= 383 sf Storage= 292 cf

Plug-Flow detention time= 135.9 min calculated for 726 cf (76% of inflow)

Center-of-Mass det. time= 52.4 min (825.4 - 773.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	383	0.0	0	0
210.00	383	40.0	2	2
212.99	383	40.0	458	460
213.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.55 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.25 cfs @ 12.12 hrs HW=211.89' TW=200.76' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.25 cfs @ 2.08 fps)

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Summary for Pond DE14: DRIP #14

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 550 cf
 Outflow = 0.13 cfs @ 12.16 hrs, Volume= 373 cf, Atten= 19%, Lag= 4.5 min
 Discarded = 0.00 cfs @ 6.50 hrs, Volume= 78 cf
 Primary = 0.13 cfs @ 12.16 hrs, Volume= 295 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 210.17' @ 12.16 hrs Surf.Area= 290 sf Storage= 207 cf

Plug-Flow detention time= 154.3 min calculated for 372 cf (68% of inflow)
 Center-of-Mass det. time= 61.0 min (840.8 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.39'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.39	290	0.0	0	0
208.40	290	40.0	1	1
211.39	290	40.0	347	348
211.40	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	211.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.90' / 209.85' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.50 hrs HW=208.40' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.13 cfs @ 12.16 hrs HW=210.16' TW=200.88' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.13 cfs @ 1.74 fps)

Summary for Pond DE15: DRIP #15

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 418 cf
 Outflow = 0.05 cfs @ 12.33 hrs, Volume= 241 cf, Atten= 61%, Lag= 14.5 min
 Discarded = 0.00 cfs @ 7.40 hrs, Volume= 74 cf
 Primary = 0.05 cfs @ 12.33 hrs, Volume= 167 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 209.46' @ 12.33 hrs Surf.Area= 290 sf Storage= 194 cf

Plug-Flow detention time= 185.0 min calculated for 241 cf (58% of inflow)

Center-of-Mass det. time= 79.9 min (865.9 - 785.9)

Volume	Invert	Avail.Storage	Storage Description
#1	207.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	290	0.0	0	0
207.80	290	40.0	1	1
210.79	290	40.0	347	348
210.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.30' / 209.25' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.40 hrs HW=207.80' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.33 hrs HW=209.46' TW=201.23' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.05 cfs @ 1.34 fps)**Summary for Pond DE16: DRIP #16**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 2.71" for 2YR event

Inflow = 0.16 cfs @ 12.09 hrs, Volume= 550 cf

Outflow = 0.13 cfs @ 12.16 hrs, Volume= 373 cf, Atten= 19%, Lag= 4.5 min

Discarded = 0.00 cfs @ 6.50 hrs, Volume= 78 cf

Primary = 0.13 cfs @ 12.16 hrs, Volume= 295 cf

Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.07' @ 12.16 hrs Surf.Area= 290 sf Storage= 207 cf

Plug-Flow detention time= 154.3 min calculated for 372 cf (68% of inflow)

Center-of-Mass det. time= 61.0 min (840.8 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	207.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.29	290	0.0	0	0
207.30	290	40.0	1	1
210.29	290	40.0	347	348
210.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.80' / 208.75' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.50 hrs HW=207.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.13 cfs @ 12.16 hrs HW=209.06' TW=200.88' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.13 cfs @ 1.74 fps)**Summary for Pond DE17: DRIP #17**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 2.23" for 2YR event
 Inflow = 0.11 cfs @ 12.09 hrs, Volume= 365 cf
 Outflow = 0.03 cfs @ 12.43 hrs, Volume= 202 cf, Atten= 70%, Lag= 20.6 min
 Discarded = 0.00 cfs @ 9.45 hrs, Volume= 62 cf
 Primary = 0.03 cfs @ 12.43 hrs, Volume= 140 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.73' @ 12.43 hrs Surf.Area= 267 sf Storage= 175 cf

Plug-Flow detention time= 198.4 min calculated for 202 cf (55% of inflow)

Center-of-Mass det. time= 90.7 min (896.3 - 805.6)

Volume	Invert	Avail.Storage	Storage Description	
#1	203.09'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
203.09	267	0.0	0	0
203.10	267	40.0	1	1
206.09	267	40.0	319	320
206.10	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	206.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 204.60' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 204.60' / 204.55' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 203.09' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 9.45 hrs HW=203.12' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.03 cfs @ 12.43 hrs HW=204.73' TW=200.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.03 cfs @ 1.21 fps)**Summary for Pond DE18: DRIP #18**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.32" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 530 cf
 Outflow = 0.08 cfs @ 12.27 hrs, Volume= 333 cf, Atten= 52%, Lag= 10.9 min
 Discarded = 0.00 cfs @ 8.10 hrs, Volume= 78 cf
 Primary = 0.08 cfs @ 12.27 hrs, Volume= 255 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.50' @ 12.27 hrs Surf.Area= 323 sf Storage= 222 cf

Plug-Flow detention time= 172.7 min calculated for 333 cf (63% of inflow)

Center-of-Mass det. time= 72.0 min (873.2 - 801.2)

Volume	Invert	Avail.Storage	Storage Description	
#1	204.79'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.79	323	0.0	0	0
204.80	323	40.0	1	1
207.79	323	40.0	386	388
207.80	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	207.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.30' / 206.25' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	204.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.10 hrs HW=204.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.08 cfs @ 12.27 hrs HW=206.50' TW=200.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.08 cfs @ 1.52 fps)

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Summary for Pond DE19: DRIP #19

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 2.32" for 2YR event
 Inflow = 0.15 cfs @ 12.09 hrs, Volume= 471 cf
 Outflow = 0.07 cfs @ 12.27 hrs, Volume= 294 cf, Atten= 52%, Lag= 10.9 min
 Discarded = 0.00 cfs @ 9.00 hrs, Volume= 70 cf
 Primary = 0.07 cfs @ 12.27 hrs, Volume= 224 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 207.29' @ 12.27 hrs Surf.Area= 290 sf Storage= 197 cf

Plug-Flow detention time= 173.5 min calculated for 294 cf (62% of inflow)
 Center-of-Mass det. time= 72.5 min (873.6 - 801.2)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.59	290	0.0	0	0
205.60	290	40.0	1	1
208.59	290	40.0	347	348
208.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.10' / 207.05' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 9.00 hrs HW=205.62' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.07 cfs @ 12.27 hrs HW=207.29' TW=200.02' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.07 cfs @ 1.47 fps)

Summary for Pond DE2: DRIP #2

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 2.42" for 2YR event
 Inflow = 0.12 cfs @ 12.09 hrs, Volume= 387 cf
 Outflow = 0.06 cfs @ 12.27 hrs, Volume= 245 cf, Atten= 52%, Lag= 10.8 min
 Discarded = 0.00 cfs @ 8.15 hrs, Volume= 70 cf
 Primary = 0.06 cfs @ 12.27 hrs, Volume= 175 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 223.17' @ 12.27 hrs Surf.Area= 290 sf Storage= 160 cf

Plug-Flow detention time= 168.2 min calculated for 245 cf (63% of inflow)

Center-of-Mass det. time= 69.6 min (866.1 - 796.5)

Volume	Invert	Avail.Storage	Storage Description
#1	221.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.79	290	0.0	0	0
221.80	290	40.0	1	1
224.79	290	40.0	347	348
224.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	224.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.00' / 222.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.15 hrs HW=221.80' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.27 hrs HW=223.17' TW=218.00' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.05 cfs @ 1.39 fps)**Summary for Pond DE20: DRIP #20**

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 2.23" for 2YR event

Inflow = 0.11 cfs @ 12.09 hrs, Volume= 357 cf

Outflow = 0.02 cfs @ 12.57 hrs, Volume= 181 cf, Atten= 82%, Lag= 28.5 min

Discarded = 0.00 cfs @ 8.70 hrs, Volume= 67 cf

Primary = 0.02 cfs @ 12.57 hrs, Volume= 114 cf

Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.90' @ 12.57 hrs Surf.Area= 290 sf Storage= 187 cf

Plug-Flow detention time= 216.1 min calculated for 181 cf (51% of inflow)

Center-of-Mass det. time= 105.4 min (911.0 - 805.6)

Volume	Invert	Avail.Storage	Storage Description
#1	206.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.29	290	0.0	0	0
206.30	290	40.0	1	1
209.29	290	40.0	347	348
209.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	209.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.75' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.70 hrs HW=206.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.02 cfs @ 12.57 hrs HW=207.90' TW=200.05' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.02 cfs @ 1.03 fps)**Summary for Pond DE21: DRIP #21**

Inflow Area = 1,961 sf, 86.33% Impervious, Inflow Depth > 2.32" for 2YR event
 Inflow = 0.12 cfs @ 12.09 hrs, Volume= 379 cf
 Outflow = 0.04 cfs @ 12.39 hrs, Volume= 216 cf, Atten= 66%, Lag= 17.7 min
 Discarded = 0.00 cfs @ 9.20 hrs, Volume= 64 cf
 Primary = 0.04 cfs @ 12.39 hrs, Volume= 152 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.34' @ 12.39 hrs Surf.Area= 268 sf Storage= 177 cf

Plug-Flow detention time= 190.1 min calculated for 216 cf (57% of inflow)

Center-of-Mass det. time= 85.2 min (886.4 - 801.2)

Volume	Invert	Avail.Storage	Storage Description
#1	206.69'	324 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.69	268	0.0	0	0
206.70	268	40.0	1	1
209.69	268	40.0	321	322
209.70	268	100.0	3	324

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.20' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 208.20' / 208.15' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 206.69' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 9.20 hrs HW=206.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.04 cfs @ 12.39 hrs HW=208.34' TW=200.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.04 cfs @ 1.27 fps)**Summary for Pond DE22: DRIP #22**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.22 cfs @ 12.09 hrs, Volume= 724 cf
 Outflow = 0.17 cfs @ 12.16 hrs, Volume= 495 cf, Atten= 21%, Lag= 4.6 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 100 cf
 Primary = 0.17 cfs @ 12.16 hrs, Volume= 395 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.31' @ 12.17 hrs Surf.Area= 373 sf Storage= 272 cf

Plug-Flow detention time= 154.5 min calculated for 495 cf (68% of inflow)

Center-of-Mass det. time= 60.9 min (840.7 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.49'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.49	373	0.0	0	0
207.50	373	40.0	1	1
210.49	373	40.0	446	448
210.50	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=207.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.16 cfs @ 12.16 hrs HW=209.30' TW=200.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.16 cfs @ 1.85 fps)

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Summary for Pond DE23: DRIP #23

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 527 cf
 Outflow = 0.13 cfs @ 12.15 hrs, Volume= 362 cf, Atten= 15%, Lag= 4.0 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 73 cf
 Primary = 0.13 cfs @ 12.15 hrs, Volume= 289 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.76' @ 12.15 hrs Surf.Area= 271 sf Storage= 192 cf

Plug-Flow detention time= 152.9 min calculated for 362 cf (69% of inflow)
 Center-of-Mass det. time= 59.4 min (839.3 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	271	0.0	0	0
208.00	271	40.0	1	1
210.99	271	40.0	324	325
211.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.50'	6.0" Round Culvert L= 10.0' Ke= 0.200 Inlet / Outlet Invert= 209.50' / 209.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=208.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.13 cfs @ 12.15 hrs HW=209.76' TW=200.01' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.13 cfs @ 1.84 fps)

Summary for Pond DE24: DRIP #24

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 619 cf
 Outflow = 0.08 cfs @ 12.28 hrs, Volume= 357 cf, Atten= 56%, Lag= 11.5 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 87 cf
 Primary = 0.08 cfs @ 12.28 hrs, Volume= 270 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.81' @ 12.28 hrs Surf.Area= 323 sf Storage= 287 cf

Plug-Flow detention time= 186.8 min calculated for 357 cf (58% of inflow)

Center-of-Mass det. time= 81.0 min (860.8 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.59'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.59	323	0.0	0	0
208.60	323	40.0	1	1
211.59	323	40.0	386	388
211.60	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.60'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.60' / 210.55' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=208.62' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.08 cfs @ 12.28 hrs HW=210.81' TW=202.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.08 cfs @ 1.54 fps)**Summary for Pond DE25: DRIP #25**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.71" for 2YR event

Inflow = 0.18 cfs @ 12.09 hrs, Volume= 619 cf

Outflow = 0.15 cfs @ 12.16 hrs, Volume= 422 cf, Atten= 19%, Lag= 4.5 min

Discarded = 0.00 cfs @ 6.50 hrs, Volume= 87 cf

Primary = 0.15 cfs @ 12.16 hrs, Volume= 335 cf

Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.09' @ 12.16 hrs Surf.Area= 323 sf Storage= 232 cf

Plug-Flow detention time= 154.9 min calculated for 422 cf (68% of inflow)

Center-of-Mass det. time= 60.9 min (840.7 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.29'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.29	323	0.0	0	0
209.30	323	40.0	1	1
212.29	323	40.0	386	388
212.30	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	212.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.80' / 210.75' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.50 hrs HW=209.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.14 cfs @ 12.16 hrs HW=211.08' TW=202.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.14 cfs @ 1.79 fps)**Summary for Pond DE26: DRIP #26**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 527 cf
 Outflow = 0.13 cfs @ 12.16 hrs, Volume= 362 cf, Atten= 16%, Lag= 4.1 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 73 cf
 Primary = 0.13 cfs @ 12.16 hrs, Volume= 289 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.77' @ 12.16 hrs Surf.Area= 271 sf Storage= 193 cf

Plug-Flow detention time= 151.9 min calculated for 361 cf (68% of inflow)

Center-of-Mass det. time= 59.6 min (839.4 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 211.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 209.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.13 cfs @ 12.16 hrs HW=211.77' TW=202.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.13 cfs @ 1.75 fps)**Summary for Pond DE27: DRIP #27**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 550 cf
 Outflow = 0.15 cfs @ 12.12 hrs, Volume= 489 cf, Atten= 7%, Lag= 2.0 min
 Discarded = 0.00 cfs @ 7.25 hrs, Volume= 78 cf
 Primary = 0.15 cfs @ 12.12 hrs, Volume= 411 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.39' @ 12.12 hrs Surf.Area= 290 sf Storage= 93 cf

Plug-Flow detention time= 82.9 min calculated for 489 cf (89% of inflow)

Center-of-Mass det. time= 30.6 min (810.5 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.59'	235 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	290	0.0	0	0
211.60	290	40.0	1	1
213.59	290	40.0	231	232
213.60	290	100.0	3	235

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.25 hrs HW=211.61' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.15 cfs @ 12.12 hrs HW=212.39' TW=202.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.15 cfs @ 1.81 fps)

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Summary for Pond DE28: DRIP #28

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 550 cf
 Outflow = 0.13 cfs @ 12.16 hrs, Volume= 373 cf, Atten= 19%, Lag= 4.5 min
 Discarded = 0.00 cfs @ 7.60 hrs, Volume= 78 cf
 Primary = 0.13 cfs @ 12.16 hrs, Volume= 295 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.27' @ 12.16 hrs Surf.Area= 290 sf Storage= 207 cf

Plug-Flow detention time= 154.3 min calculated for 372 cf (68% of inflow)
 Center-of-Mass det. time= 61.0 min (840.8 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.49	290	0.0	0	0
211.50	290	40.0	1	1
214.49	290	40.0	347	348
214.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.60 hrs HW=211.52' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.13 cfs @ 12.16 hrs HW=213.26' TW=202.01' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.13 cfs @ 1.74 fps)

Summary for Pond DE29: DRIP #29

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 527 cf
 Outflow = 0.15 cfs @ 12.12 hrs, Volume= 427 cf, Atten= 7%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 73 cf
 Primary = 0.15 cfs @ 12.12 hrs, Volume= 354 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.29' @ 12.12 hrs Surf.Area= 271 sf Storage= 130 cf

Plug-Flow detention time= 114.4 min calculated for 427 cf (81% of inflow)

Center-of-Mass det. time= 41.4 min (821.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	212.09'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.09	271	0.0	0	0
212.10	271	40.0	1	1
215.09	271	40.0	324	325
215.10	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	215.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.09'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=212.12' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.14 cfs @ 12.12 hrs HW=213.28' TW=204.00' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.14 cfs @ 1.79 fps)**Summary for Pond DE3: DRIP #3**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.61" for 2YR event

Inflow = 0.15 cfs @ 12.09 hrs, Volume= 507 cf

Outflow = 0.12 cfs @ 12.17 hrs, Volume= 342 cf, Atten= 21%, Lag= 4.9 min

Discarded = 0.00 cfs @ 6.90 hrs, Volume= 71 cf

Primary = 0.12 cfs @ 12.17 hrs, Volume= 271 cf

Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 222.56' @ 12.17 hrs Surf.Area= 271 sf Storage= 192 cf

Plug-Flow detention time= 155.2 min calculated for 341 cf (67% of inflow)

Center-of-Mass det. time= 61.4 min (847.3 - 785.9)

Volume	Invert	Avail.Storage	Storage Description
#1	220.79'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
220.79	271	0.0	0	0
220.80	271	40.0	1	1
223.79	271	40.0	324	325
223.80	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	223.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	222.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 222.30' / 222.25' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	220.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.90 hrs HW=220.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.11 cfs @ 12.17 hrs HW=222.55' TW=218.00' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.11 cfs @ 1.68 fps)**Summary for Pond DE30: DRIP #30**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 619 cf
 Outflow = 0.17 cfs @ 12.12 hrs, Volume= 480 cf, Atten= 8%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 87 cf
 Primary = 0.17 cfs @ 12.12 hrs, Volume= 393 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.56' @ 12.12 hrs Surf.Area= 323 sf Storage= 177 cf

Plug-Flow detention time= 125.5 min calculated for 479 cf (77% of inflow)

Center-of-Mass det. time= 46.6 min (826.4 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.19'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	323	0.0	0	0
212.20	323	40.0	1	1
215.19	323	40.0	386	388
215.20	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	215.10'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 213.25' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 213.25' / 213.20' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 212.19' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=212.22' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.16 cfs @ 12.12 hrs HW=213.56' TW=204.00' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.16 cfs @ 1.86 fps)**Summary for Pond DE31: DRIP #31**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 619 cf
 Outflow = 0.15 cfs @ 12.16 hrs, Volume= 422 cf, Atten= 19%, Lag= 4.5 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 87 cf
 Primary = 0.15 cfs @ 12.16 hrs, Volume= 335 cf
 Routed to Reach 8R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.79' @ 12.16 hrs Surf.Area= 323 sf Storage= 232 cf

Plug-Flow detention time= 154.9 min calculated for 422 cf (68% of inflow)

Center-of-Mass det. time= 60.9 min (840.7 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=212.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.14 cfs @ 12.16 hrs HW=213.78' TW=204.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.14 cfs @ 1.79 fps)

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Summary for Pond DE32: DRIP #32

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 527 cf
 Outflow = 0.13 cfs @ 12.16 hrs, Volume= 362 cf, Atten= 16%, Lag= 4.1 min
 Discarded = 0.00 cfs @ 6.45 hrs, Volume= 73 cf
 Primary = 0.13 cfs @ 12.16 hrs, Volume= 289 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.17' @ 12.16 hrs Surf.Area= 271 sf Storage= 193 cf

Plug-Flow detention time= 151.9 min calculated for 361 cf (68% of inflow)
 Center-of-Mass det. time= 59.6 min (839.4 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.39'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.39	271	0.0	0	0
211.40	271	40.0	1	1
214.39	271	40.0	324	325
214.40	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.90' / 212.85' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.45 hrs HW=211.40' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.13 cfs @ 12.16 hrs HW=213.17' TW=207.01' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.13 cfs @ 1.75 fps)

Summary for Pond DE33: DRIP #33

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 418 cf
 Outflow = 0.05 cfs @ 12.33 hrs, Volume= 241 cf, Atten= 61%, Lag= 14.5 min
 Discarded = 0.00 cfs @ 8.50 hrs, Volume= 74 cf
 Primary = 0.05 cfs @ 12.33 hrs, Volume= 167 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 212.26' @ 12.33 hrs Surf.Area= 290 sf Storage= 194 cf

Plug-Flow detention time= 184.0 min calculated for 241 cf (58% of inflow)

Center-of-Mass det. time= 79.9 min (865.9 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.59	290	0.0	0	0
210.60	290	40.0	1	1
213.59	290	40.0	347	348
213.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.50 hrs HW=210.62' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.33 hrs HW=212.26' TW=207.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.05 cfs @ 1.34 fps)**Summary for Pond DE34: DRIP #34**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.28 cfs @ 12.09 hrs, Volume= 926 cf
 Outflow = 0.25 cfs @ 12.13 hrs, Volume= 691 cf, Atten= 10%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 6.00 hrs, Volume= 104 cf
 Primary = 0.25 cfs @ 12.13 hrs, Volume= 586 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.19' @ 12.13 hrs Surf.Area= 383 sf Storage= 291 cf

Plug-Flow detention time= 137.2 min calculated for 691 cf (75% of inflow)

Center-of-Mass det. time= 52.3 min (832.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.29'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.29	383	0.0	0	0
210.30	383	40.0	2	2
213.29	383	40.0	458	460
213.30	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	213.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.80' / 211.75' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.00 hrs HW=210.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.13 hrs HW=212.18' TW=204.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.06 fps)**Summary for Pond DE35: DRIP #35**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.28 cfs @ 12.09 hrs, Volume= 926 cf
 Outflow = 0.25 cfs @ 12.13 hrs, Volume= 691 cf, Atten= 10%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 7.10 hrs, Volume= 104 cf
 Primary = 0.25 cfs @ 12.13 hrs, Volume= 586 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.89' @ 12.13 hrs Surf.Area= 383 sf Storage= 291 cf

Plug-Flow detention time= 137.2 min calculated for 691 cf (75% of inflow)

Center-of-Mass det. time= 52.3 min (832.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	208.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	383	0.0	0	0
209.00	383	40.0	2	2
211.99	383	40.0	458	460
212.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 210.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 208.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.10 hrs HW=209.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.13 hrs HW=210.88' TW=204.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.06 fps)**Summary for Pond DE36: DRIP #36**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.22 cfs @ 12.09 hrs, Volume= 724 cf
 Outflow = 0.19 cfs @ 12.13 hrs, Volume= 570 cf, Atten= 10%, Lag= 2.4 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 100 cf
 Primary = 0.19 cfs @ 12.13 hrs, Volume= 470 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.34' @ 12.13 hrs Surf.Area= 373 sf Storage= 201 cf

Plug-Flow detention time= 122.9 min calculated for 570 cf (79% of inflow)

Center-of-Mass det. time= 45.3 min (825.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	373	0.0	0	0
207.00	373	40.0	1	1
209.99	373	40.0	446	448
210.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.00' / 207.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=207.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.19 cfs @ 12.13 hrs HW=208.33' TW=198.12' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.19 cfs @ 1.93 fps)

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Summary for Pond DE37: DRIP #37

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.21 cfs @ 12.09 hrs, Volume= 696 cf
 Outflow = 0.19 cfs @ 12.13 hrs, Volume= 543 cf, Atten= 11%, Lag= 2.6 min
 Discarded = 0.00 cfs @ 8.00 hrs, Volume= 97 cf
 Primary = 0.19 cfs @ 12.13 hrs, Volume= 446 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.33' @ 12.13 hrs Surf.Area= 373 sf Storage= 200 cf

Plug-Flow detention time= 123.8 min calculated for 542 cf (78% of inflow)
 Center-of-Mass det. time= 45.6 min (831.6 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	373	0.0	0	0
208.00	373	40.0	1	1
210.99	373	40.0	446	448
211.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.00 hrs HW=208.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.18 cfs @ 12.13 hrs HW=209.33' TW=198.14' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.18 cfs @ 1.92 fps)

Summary for Pond DE38: DRIP #39

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 596 cf
 Outflow = 0.12 cfs @ 12.18 hrs, Volume= 399 cf, Atten= 31%, Lag= 5.4 min
 Discarded = 0.00 cfs @ 8.00 hrs, Volume= 84 cf
 Primary = 0.12 cfs @ 12.18 hrs, Volume= 315 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.76' @ 12.18 hrs Surf.Area= 323 sf Storage= 229 cf

Plug-Flow detention time= 158.3 min calculated for 399 cf (67% of inflow)

Center-of-Mass det. time= 62.8 min (848.7 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	323	0.0	0	0
209.00	323	40.0	1	1
211.99	323	40.0	386	388
212.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.00 hrs HW=209.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.12 cfs @ 12.18 hrs HW=210.76' TW=198.29' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.12 cfs @ 1.72 fps)**Summary for Pond DE39: DRIP #39**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.15 cfs @ 12.09 hrs, Volume= 507 cf
 Outflow = 0.12 cfs @ 12.17 hrs, Volume= 342 cf, Atten= 21%, Lag= 4.9 min
 Discarded = 0.00 cfs @ 7.95 hrs, Volume= 71 cf
 Primary = 0.12 cfs @ 12.17 hrs, Volume= 271 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.76' @ 12.17 hrs Surf.Area= 271 sf Storage= 192 cf

Plug-Flow detention time= 155.2 min calculated for 341 cf (67% of inflow)

Center-of-Mass det. time= 61.4 min (847.3 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.95 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.11 cfs @ 12.17 hrs HW=211.75' TW=198.26' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.11 cfs @ 1.68 fps)**Summary for Pond DE4: DRIP #4**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 596 cf
 Outflow = 0.12 cfs @ 12.18 hrs, Volume= 399 cf, Atten= 31%, Lag= 5.4 min
 Discarded = 0.00 cfs @ 8.00 hrs, Volume= 84 cf
 Primary = 0.12 cfs @ 12.18 hrs, Volume= 315 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.76' @ 12.18 hrs Surf.Area= 323 sf Storage= 229 cf

Plug-Flow detention time= 158.3 min calculated for 399 cf (67% of inflow)

Center-of-Mass det. time= 62.8 min (848.7 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	218.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.99	323	0.0	0	0
219.00	323	40.0	1	1
221.99	323	40.0	386	388
222.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	221.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 220.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 220.50' / 220.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 218.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.00 hrs HW=219.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.12 cfs @ 12.18 hrs HW=220.76' TW=218.00' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.12 cfs @ 1.72 fps)**Summary for Pond DE40: DRIP #40**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 596 cf
 Outflow = 0.12 cfs @ 12.18 hrs, Volume= 399 cf, Atten= 31%, Lag= 5.4 min
 Discarded = 0.00 cfs @ 8.00 hrs, Volume= 84 cf
 Primary = 0.12 cfs @ 12.18 hrs, Volume= 315 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.76' @ 12.18 hrs Surf.Area= 323 sf Storage= 229 cf

Plug-Flow detention time= 158.3 min calculated for 399 cf (67% of inflow)

Center-of-Mass det. time= 62.8 min (848.7 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.00 hrs HW=211.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.12 cfs @ 12.18 hrs HW=212.76' TW=198.29' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.12 cfs @ 1.72 fps)

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Summary for Pond DE41: DRIP #41

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 596 cf
 Outflow = 0.12 cfs @ 12.18 hrs, Volume= 399 cf, Atten= 31%, Lag= 5.4 min
 Discarded = 0.00 cfs @ 8.00 hrs, Volume= 84 cf
 Primary = 0.12 cfs @ 12.18 hrs, Volume= 315 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.76' @ 12.18 hrs Surf.Area= 323 sf Storage= 229 cf

Plug-Flow detention time= 158.3 min calculated for 399 cf (67% of inflow)
 Center-of-Mass det. time= 62.8 min (848.7 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.00 hrs HW=212.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.12 cfs @ 12.18 hrs HW=213.76' TW=198.29' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.12 cfs @ 1.72 fps)

Summary for Pond DE42: DRIP #42

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 410 cf
 Outflow = 0.06 cfs @ 12.28 hrs, Volume= 248 cf, Atten= 55%, Lag= 11.5 min
 Discarded = 0.00 cfs @ 8.65 hrs, Volume= 67 cf
 Primary = 0.06 cfs @ 12.28 hrs, Volume= 181 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 214.67' @ 12.28 hrs Surf.Area= 267 sf Storage= 180 cf

Plug-Flow detention time= 176.3 min calculated for 247 cf (60% of inflow)

Center-of-Mass det. time= 75.0 min (866.5 - 791.4)

Volume	Invert	Avail.Storage	Storage Description
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.65 hrs HW=213.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.28 hrs HW=214.67' TW=198.59' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.05 cfs @ 1.39 fps)**Summary for Pond DE43: DRIP #43**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 2.51" for 2YR event

Inflow = 0.13 cfs @ 12.09 hrs, Volume= 410 cf

Outflow = 0.06 cfs @ 12.28 hrs, Volume= 248 cf, Atten= 55%, Lag= 11.5 min

Discarded = 0.00 cfs @ 8.65 hrs, Volume= 67 cf

Primary = 0.06 cfs @ 12.28 hrs, Volume= 181 cf

Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.67' @ 12.28 hrs Surf.Area= 267 sf Storage= 180 cf

Plug-Flow detention time= 176.3 min calculated for 247 cf (60% of inflow)

Center-of-Mass det. time= 75.0 min (866.5 - 791.4)

Volume	Invert	Avail.Storage	Storage Description
#1	213.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.99	267	0.0	0	0
214.00	267	40.0	1	1
216.99	267	40.0	319	320
217.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	216.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	215.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 215.50' / 215.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	213.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.65 hrs HW=214.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.28 hrs HW=215.67' TW=198.59' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.05 cfs @ 1.39 fps)**Summary for Pond DE44: DRIP #44**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 2.51" for 2YR event
 Inflow = 0.13 cfs @ 12.09 hrs, Volume= 410 cf
 Outflow = 0.06 cfs @ 12.28 hrs, Volume= 248 cf, Atten= 55%, Lag= 11.5 min
 Discarded = 0.00 cfs @ 8.65 hrs, Volume= 67 cf
 Primary = 0.06 cfs @ 12.28 hrs, Volume= 181 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 217.67' @ 12.28 hrs Surf.Area= 267 sf Storage= 180 cf

Plug-Flow detention time= 176.3 min calculated for 247 cf (60% of inflow)

Center-of-Mass det. time= 75.0 min (866.5 - 791.4)

Volume	Invert	Avail.Storage	Storage Description
#1	215.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
215.99	267	0.0	0	0
216.00	267	40.0	1	1
218.99	267	40.0	319	320
219.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	218.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 217.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 217.50' / 217.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 215.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.65 hrs HW=216.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.28 hrs HW=217.67' TW=198.59' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.05 cfs @ 1.39 fps)**Summary for Pond DE45: DRIP #45**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.15 cfs @ 12.09 hrs, Volume= 507 cf
 Outflow = 0.12 cfs @ 12.17 hrs, Volume= 342 cf, Atten= 21%, Lag= 4.9 min
 Discarded = 0.00 cfs @ 7.95 hrs, Volume= 71 cf
 Primary = 0.12 cfs @ 12.17 hrs, Volume= 271 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.76' @ 12.17 hrs Surf.Area= 271 sf Storage= 192 cf

Plug-Flow detention time= 155.2 min calculated for 341 cf (67% of inflow)

Center-of-Mass det. time= 61.4 min (847.3 - 785.9)

Volume	Invert	Avail.Storage	Storage Description
#1	216.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	271	0.0	0	0
217.00	271	40.0	1	1
219.99	271	40.0	324	325
220.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	218.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 218.50' / 218.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	216.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.95 hrs HW=217.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.11 cfs @ 12.17 hrs HW=218.75' TW=198.26' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.11 cfs @ 1.68 fps)

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Summary for Pond DE47: DRIP #47

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.21 cfs @ 12.09 hrs, Volume= 696 cf
 Outflow = 0.19 cfs @ 12.13 hrs, Volume= 543 cf, Atten= 11%, Lag= 2.6 min
 Discarded = 0.00 cfs @ 8.00 hrs, Volume= 97 cf
 Primary = 0.19 cfs @ 12.13 hrs, Volume= 446 cf
 Routed to Reach 16R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 218.33' @ 12.13 hrs Surf.Area= 373 sf Storage= 200 cf

Plug-Flow detention time= 123.8 min calculated for 542 cf (78% of inflow)
 Center-of-Mass det. time= 45.6 min (831.6 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	216.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	373	0.0	0	0
217.00	373	40.0	1	1
219.99	373	40.0	446	448
220.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	218.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 218.00' / 217.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	216.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.00 hrs HW=217.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.18 cfs @ 12.13 hrs HW=218.33' TW=216.01' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.18 cfs @ 1.92 fps)

Summary for Pond DE48: DRIP #48

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 2.42" for 2YR event
 Inflow = 0.12 cfs @ 12.09 hrs, Volume= 387 cf
 Outflow = 0.03 cfs @ 12.44 hrs, Volume= 210 cf, Atten= 71%, Lag= 20.8 min
 Discarded = 0.00 cfs @ 9.10 hrs, Volume= 70 cf
 Primary = 0.03 cfs @ 12.44 hrs, Volume= 140 cf
 Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 216.63' @ 12.44 hrs Surf.Area= 290 sf Storage= 190 cf

Plug-Flow detention time= 199.1 min calculated for 210 cf (54% of inflow)

Center-of-Mass det. time= 91.0 min (887.5 - 796.5)

Volume	Invert	Avail.Storage	Storage Description
#1	214.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
214.99	290	0.0	0	0
215.00	290	40.0	1	1
217.99	290	40.0	347	348
218.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	217.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	216.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 216.50' / 216.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	214.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 9.10 hrs HW=215.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.03 cfs @ 12.44 hrs HW=216.63' TW=208.56' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.03 cfs @ 1.21 fps)**Summary for Pond DE49: DRIP #49**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 2.51" for 2YR event

Inflow = 0.13 cfs @ 12.09 hrs, Volume= 410 cf

Outflow = 0.06 cfs @ 12.28 hrs, Volume= 248 cf, Atten= 55%, Lag= 11.5 min

Discarded = 0.00 cfs @ 8.65 hrs, Volume= 67 cf

Primary = 0.06 cfs @ 12.28 hrs, Volume= 181 cf

Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.67' @ 12.28 hrs Surf.Area= 267 sf Storage= 180 cf

Plug-Flow detention time= 176.3 min calculated for 247 cf (60% of inflow)

Center-of-Mass det. time= 75.0 min (866.5 - 791.4)

Volume	Invert	Avail.Storage	Storage Description
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 8.65 hrs HW=213.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.28 hrs HW=214.67' TW=208.57' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.05 cfs @ 1.39 fps)**Summary for Pond DE5: DRIP #5**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.15 cfs @ 12.09 hrs, Volume= 507 cf
 Outflow = 0.12 cfs @ 12.17 hrs, Volume= 342 cf, Atten= 21%, Lag= 4.9 min
 Discarded = 0.00 cfs @ 7.95 hrs, Volume= 71 cf
 Primary = 0.12 cfs @ 12.17 hrs, Volume= 271 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.36' @ 12.17 hrs Surf.Area= 271 sf Storage= 192 cf

Plug-Flow detention time= 155.2 min calculated for 341 cf (67% of inflow)

Center-of-Mass det. time= 61.4 min (847.3 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	218.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.59	271	0.0	0	0
218.60	271	40.0	1	1
221.59	271	40.0	324	325
221.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	221.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 220.10' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 220.10' / 220.05' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 218.59' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.95 hrs HW=218.62' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.11 cfs @ 12.17 hrs HW=220.35' TW=218.00' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.11 cfs @ 1.68 fps)**Summary for Pond DE61: DRIP #61**

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.39 cfs @ 12.09 hrs, Volume= 1,289 cf
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 1,146 cf, Atten= 15%, Lag= 3.3 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 174 cf
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 972 cf
 Routed to Pond P210 : POCKET WETLAND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.16' @ 12.14 hrs Surf.Area= 665 sf Storage= 259 cf

Plug-Flow detention time= 85.1 min calculated for 1,146 cf (89% of inflow)

Center-of-Mass det. time= 32.9 min (818.8 - 785.9)

Volume	Invert	Avail.Storage	Storage Description
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=212.21' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.32 cfs @ 12.14 hrs HW=213.16' TW=202.93' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.32 cfs @ 2.23 fps)

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Summary for Pond DE62: DRIP #62

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 2.61" for 2YR event
 Inflow = 0.39 cfs @ 12.09 hrs, Volume= 1,289 cf
 Outflow = 0.33 cfs @ 12.14 hrs, Volume= 1,146 cf, Atten= 15%, Lag= 3.3 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 174 cf
 Primary = 0.33 cfs @ 12.14 hrs, Volume= 972 cf
 Routed to Reach 13R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.16' @ 12.14 hrs Surf.Area= 665 sf Storage= 259 cf

Plug-Flow detention time= 85.1 min calculated for 1,146 cf (89% of inflow)
 Center-of-Mass det. time= 32.9 min (818.8 - 785.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=212.21' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.32 cfs @ 12.14 hrs HW=213.16' TW=206.01' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.32 cfs @ 2.23 fps)

Summary for Pond DE63: DRIP #63

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.23 cfs @ 12.09 hrs, Volume= 773 cf
 Outflow = 0.21 cfs @ 12.13 hrs, Volume= 687 cf, Atten= 10%, Lag= 2.4 min
 Discarded = 0.00 cfs @ 7.20 hrs, Volume= 108 cf
 Primary = 0.21 cfs @ 12.13 hrs, Volume= 579 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.85' @ 12.13 hrs Surf.Area= 404 sf Storage= 139 cf

Plug-Flow detention time= 83.9 min calculated for 687 cf (89% of inflow)

Center-of-Mass det. time= 31.7 min (811.6 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	206.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	404	0.0	0	0
207.00	404	40.0	2	2
208.99	404	40.0	322	323
209.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 207.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.20 hrs HW=207.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.20 cfs @ 12.13 hrs HW=207.84' TW=202.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.20 cfs @ 1.97 fps)**Summary for Pond DE64: DRIP #64**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 2.71" for 2YR event

Inflow = 0.29 cfs @ 12.09 hrs, Volume= 962 cf

Outflow = 0.25 cfs @ 12.13 hrs, Volume= 862 cf, Atten= 11%, Lag= 2.7 min

Discarded = 0.00 cfs @ 7.10 hrs, Volume= 127 cf

Primary = 0.25 cfs @ 12.13 hrs, Volume= 735 cf

Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.89' @ 12.13 hrs Surf.Area= 470 sf Storage= 170 cf

Plug-Flow detention time= 80.8 min calculated for 860 cf (89% of inflow)

Center-of-Mass det. time= 31.4 min (811.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	204.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.99	470	0.0	0	0
205.00	470	40.0	2	2
206.99	470	40.0	374	376
207.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	206.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	205.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 205.50' / 205.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	204.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.10 hrs HW=205.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.25 cfs @ 12.13 hrs HW=205.89' TW=202.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.25 cfs @ 2.08 fps)**Summary for Pond DE65: DRIP #65**

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.23 cfs @ 12.09 hrs, Volume= 773 cf
 Outflow = 0.21 cfs @ 12.13 hrs, Volume= 687 cf, Atten= 10%, Lag= 2.4 min
 Discarded = 0.00 cfs @ 7.20 hrs, Volume= 108 cf
 Primary = 0.21 cfs @ 12.13 hrs, Volume= 579 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.85' @ 12.13 hrs Surf.Area= 404 sf Storage= 139 cf

Plug-Flow detention time= 83.9 min calculated for 687 cf (89% of inflow)

Center-of-Mass det. time= 31.7 min (811.6 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	205.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.99	404	0.0	0	0
206.00	404	40.0	2	2
207.99	404	40.0	322	323
208.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	207.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 206.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 206.50' / 206.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 205.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.20 hrs HW=206.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.20 cfs @ 12.13 hrs HW=206.84' TW=202.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.20 cfs @ 1.97 fps)**Summary for Pond DE66: DRIP #66**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 962 cf
 Outflow = 0.25 cfs @ 12.13 hrs, Volume= 862 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 6.35 hrs, Volume= 127 cf
 Primary = 0.25 cfs @ 12.13 hrs, Volume= 735 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.69' @ 12.13 hrs Surf.Area= 470 sf Storage= 170 cf

Plug-Flow detention time= 80.8 min calculated for 860 cf (89% of inflow)

Center-of-Mass det. time= 31.4 min (811.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.79'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	470	0.0	0	0
207.80	470	40.0	2	2
209.79	470	40.0	374	376
209.80	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.70'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.30' / 208.25' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.35 hrs HW=207.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.25 cfs @ 12.13 hrs HW=208.69' TW=202.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.25 cfs @ 2.08 fps)

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Summary for Pond DE67: DRIP #67

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 962 cf
 Outflow = 0.25 cfs @ 12.13 hrs, Volume= 862 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 7.10 hrs, Volume= 127 cf
 Primary = 0.25 cfs @ 12.13 hrs, Volume= 735 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 208.89' @ 12.13 hrs Surf.Area= 470 sf Storage= 170 cf

Plug-Flow detention time= 80.8 min calculated for 860 cf (89% of inflow)
 Center-of-Mass det. time= 31.4 min (811.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	470	0.0	0	0
208.00	470	40.0	2	2
209.99	470	40.0	374	376
210.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.45' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.10 hrs HW=208.01' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.25 cfs @ 12.13 hrs HW=208.89' TW=202.07' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.25 cfs @ 2.08 fps)

Summary for Pond DE68: DRIP #68

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.40 cfs @ 12.09 hrs, Volume= 1,339 cf
 Outflow = 0.35 cfs @ 12.13 hrs, Volume= 1,198 cf, Atten= 12%, Lag= 2.8 min
 Discarded = 0.00 cfs @ 7.10 hrs, Volume= 179 cf
 Primary = 0.35 cfs @ 12.13 hrs, Volume= 1,019 cf
 Routed to Pond OCS4 : OCS#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.89' @ 12.13 hrs Surf.Area= 665 sf Storage= 239 cf

Plug-Flow detention time= 81.8 min calculated for 1,198 cf (89% of inflow)

Center-of-Mass det. time= 31.4 min (811.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	206.99'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	665	0.0	0	0
207.00	665	40.0	3	3
208.99	665	40.0	529	532
209.00	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 206.00' S= 0.0750 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.10 hrs HW=207.01' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.13 hrs HW=207.88' TW=203.66' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Inlet Controls 0.34 cfs @ 2.11 fps)**Summary for Pond DE69: DRIP #69**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 2.71" for 2YR event

Inflow = 0.29 cfs @ 12.09 hrs, Volume= 962 cf

Outflow = 0.25 cfs @ 12.13 hrs, Volume= 862 cf, Atten= 11%, Lag= 2.7 min

Discarded = 0.00 cfs @ 7.10 hrs, Volume= 127 cf

Primary = 0.25 cfs @ 12.13 hrs, Volume= 735 cf

Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.39' @ 12.13 hrs Surf.Area= 470 sf Storage= 170 cf

Plug-Flow detention time= 80.8 min calculated for 860 cf (89% of inflow)

Center-of-Mass det. time= 31.4 min (811.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description
#1	205.49'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.49	470	0.0	0	0
205.50	470	40.0	2	2
207.49	470	40.0	374	376
207.50	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.00' / 205.95' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.10 hrs HW=205.51' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.25 cfs @ 12.13 hrs HW=206.39' TW=200.79' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.25 cfs @ 2.08 fps)**Summary for Pond DE7: DRIP #7**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 550 cf
 Outflow = 0.13 cfs @ 12.16 hrs, Volume= 373 cf, Atten= 19%, Lag= 4.5 min
 Discarded = 0.00 cfs @ 7.60 hrs, Volume= 78 cf
 Primary = 0.13 cfs @ 12.16 hrs, Volume= 295 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.27' @ 12.16 hrs Surf.Area= 290 sf Storage= 207 cf

Plug-Flow detention time= 154.3 min calculated for 372 cf (68% of inflow)

Center-of-Mass det. time= 61.0 min (840.8 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.49	290	0.0	0	0
210.50	290	40.0	1	1
213.49	290	40.0	347	348
213.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 212.00' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 212.00' / 211.95' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 210.49' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.60 hrs HW=210.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.13 cfs @ 12.16 hrs HW=212.26' TW=211.51' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.13 cfs @ 1.74 fps)**Summary for Pond DE70: DRIP #70**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 962 cf
 Outflow = 0.25 cfs @ 12.13 hrs, Volume= 862 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 6.35 hrs, Volume= 127 cf
 Primary = 0.25 cfs @ 12.13 hrs, Volume= 735 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.79' @ 12.13 hrs Surf.Area= 470 sf Storage= 170 cf

Plug-Flow detention time= 80.8 min calculated for 860 cf (89% of inflow)

Center-of-Mass det. time= 31.4 min (811.2 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.89'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.89	470	0.0	0	0
205.90	470	40.0	2	2
207.89	470	40.0	374	376
207.90	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.40'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.40' / 206.35' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.89'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.35 hrs HW=205.90' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.25 cfs @ 12.13 hrs HW=206.79' TW=200.79' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.25 cfs @ 2.08 fps)

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Summary for Pond DE71: DRIP #71

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.40 cfs @ 12.09 hrs, Volume= 1,339 cf
 Outflow = 0.34 cfs @ 12.14 hrs, Volume= 1,196 cf, Atten= 15%, Lag= 3.3 min
 Discarded = 0.00 cfs @ 7.45 hrs, Volume= 179 cf
 Primary = 0.34 cfs @ 12.14 hrs, Volume= 1,016 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 207.47' @ 12.14 hrs Surf.Area= 665 sf Storage= 261 cf

Plug-Flow detention time= 83.5 min calculated for 1,193 cf (89% of inflow)
 Center-of-Mass det. time= 33.3 min (813.1 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.49'	805 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.49	665	0.0	0	0
206.50	665	40.0	3	3
209.49	665	40.0	795	798
209.50	665	100.0	7	805

Device	Routing	Invert	Outlet Devices
#1	Primary	209.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.00' / 206.95' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.45 hrs HW=206.52' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.33 cfs @ 12.14 hrs HW=207.47' TW=200.82' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.33 cfs @ 2.25 fps)

Summary for Pond DE8: DRIP #8

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 2.71" for 2YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 527 cf
 Outflow = 0.13 cfs @ 12.16 hrs, Volume= 362 cf, Atten= 16%, Lag= 4.1 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 73 cf
 Primary = 0.13 cfs @ 12.16 hrs, Volume= 289 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.37' @ 12.16 hrs Surf.Area= 271 sf Storage= 193 cf

Plug-Flow detention time= 151.9 min calculated for 361 cf (68% of inflow)

Center-of-Mass det. time= 59.6 min (839.4 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	271	0.0	0	0
211.60	271	40.0	1	1
214.59	271	40.0	324	325
214.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.10' / 213.05' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=211.62' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.13 cfs @ 12.16 hrs HW=213.37' TW=211.51' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.13 cfs @ 1.75 fps)**Summary for Pond DE9: DRIP #9**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 2.71" for 2YR event

Inflow = 0.18 cfs @ 12.09 hrs, Volume= 619 cf

Outflow = 0.15 cfs @ 12.16 hrs, Volume= 422 cf, Atten= 19%, Lag= 4.5 min

Discarded = 0.00 cfs @ 6.50 hrs, Volume= 87 cf

Primary = 0.15 cfs @ 12.16 hrs, Volume= 335 cf

Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.69' @ 12.16 hrs Surf.Area= 323 sf Storage= 232 cf

Plug-Flow detention time= 154.9 min calculated for 422 cf (68% of inflow)

Center-of-Mass det. time= 60.9 min (840.7 - 779.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.89'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.89	323	0.0	0	0
211.90	323	40.0	1	1
214.89	323	40.0	386	388
214.90	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.80'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.40'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.40' / 213.35' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.89'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.50 hrs HW=211.90' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.14 cfs @ 12.16 hrs HW=213.68' TW=211.51' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.14 cfs @ 1.79 fps)**Summary for Pond DECH: DRIP #CH**

Inflow Area = 6,087 sf, 100.00% Impervious, Inflow Depth > 3.04" for 2YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,540 cf
 Outflow = 0.29 cfs @ 12.18 hrs, Volume= 1,539 cf, Atten= 34%, Lag= 5.8 min
 Discarded = 0.04 cfs @ 11.45 hrs, Volume= 1,116 cf
 Primary = 0.25 cfs @ 12.18 hrs, Volume= 424 cf
 Routed to Pond CB18 : CB #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.02' @ 12.18 hrs Surf.Area= 636 sf Storage= 262 cf

Plug-Flow detention time= 19.0 min calculated for 1,539 cf (100% of inflow)

Center-of-Mass det. time= 18.9 min (774.4 - 755.5)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	636	0.0	0	0
208.00	636	40.0	3	3
210.99	636	40.0	761	763
211.00	636	100.0	6	770

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.50' **4.0" Round Culvert** L= 80.0' Ke= 0.500
Inlet / Outlet Invert= 208.50' / 205.10' S= 0.0425 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.09 sf
#3 Discarded 207.99' **2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.04 cfs @ 11.45 hrs HW=208.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=0.25 cfs @ 12.18 hrs HW=209.02' TW=205.28' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Inlet Controls 0.25 cfs @ 2.85 fps)

Summary for Pond OCS1: OCS#1

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 2.69" for 2YR event
Inflow = 4.55 cfs @ 12.09 hrs, Volume= 15,511 cf
Outflow = 4.55 cfs @ 12.09 hrs, Volume= 15,511 cf, Atten= 0%, Lag= 0.0 min
Primary = 4.55 cfs @ 12.09 hrs, Volume= 15,511 cf
Routed to Pond P206 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 195.91' @ 12.09 hrs

Flood Elev= 201.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.44 cfs @ 12.09 hrs HW=195.90' TW=195.33' (Dynamic Tailwater)

↑ **1=Orifice/Grate** (Orifice Controls 4.44 cfs @ 3.23 fps)

Summary for Pond OCS3: OCS#3

Inflow Area = 54,550 sf, 83.49% Impervious, Inflow Depth > 2.40" for 2YR event
Inflow = 3.32 cfs @ 12.09 hrs, Volume= 10,892 cf
Outflow = 3.32 cfs @ 12.09 hrs, Volume= 10,892 cf, Atten= 0%, Lag= 0.0 min
Primary = 3.32 cfs @ 12.09 hrs, Volume= 10,892 cf
Routed to Pond p204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.96' @ 12.11 hrs

Flood Elev= 209.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.26 cfs @ 12.09 hrs HW=203.95' TW=203.50' (Dynamic Tailwater)

↑ **1=Orifice/Grate** (Orifice Controls 3.26 cfs @ 3.14 fps)

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Summary for Pond OCS4: OCS#4

Inflow Area = 19,582 sf, 26.87% Impervious, Inflow Depth > 1.30" for 2YR event
 Inflow = 0.67 cfs @ 12.11 hrs, Volume= 2,125 cf
 Outflow = 0.67 cfs @ 12.11 hrs, Volume= 2,125 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.67 cfs @ 12.11 hrs, Volume= 2,125 cf
 Routed to Pond P204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 203.91' @ 12.48 hrs
 Flood Elev= 208.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.67 cfs @ 12.11 hrs HW=203.62' TW=203.55' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.67 cfs @ 1.23 fps)

Summary for Pond P204: STORMTECH INFILTRATION SYSTEM

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth > 2.11" for 2YR event
 Inflow = 3.98 cfs @ 12.10 hrs, Volume= 13,017 cf
 Outflow = 1.05 cfs @ 12.49 hrs, Volume= 11,309 cf, Atten= 73%, Lag= 23.6 min
 Discarded = 0.09 cfs @ 10.50 hrs, Volume= 5,240 cf
 Primary = 0.97 cfs @ 12.49 hrs, Volume= 6,069 cf
 Routed to Reach 20r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 203.91' @ 12.49 hrs Surf.Area= 5,670 sf Storage= 5,140 cf
 Flood Elev= 208.75' Surf.Area= 5,670 sf Storage= 13,379 cf

Plug-Flow detention time= 140.6 min calculated for 11,309 cf (87% of inflow)
 Center-of-Mass det. time= 82.7 min (871.1 - 788.4)

Volume	Invert	Avail.Storage	Storage Description
#1A	202.50'	5,923 cf	77.50'W x 67.70'L x 4.08'H STORMTECH SC-740 21,423 cf Overall - 6,615 cf Embedded = 14,808 cf x 40.0% Voids
#2A	203.08'	6,615 cf	ADS_StormTech SC-740 +Cap x 144 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 144 Chambers in 16 Rows
#3B	202.50'	427 cf	6.25'W x 67.70'L x 3.50'H ISOLATOR ROW 1,481 cf Overall - 413 cf Embedded = 1,067 cf x 40.0% Voids
#4B	203.00'	413 cf	ADS_StormTech SC-740 +Cap x 9 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap
		13,379 cf	Total Available Storage

Storage Group A created with Chamber Wizard
 Storage Group B created with Chamber Wizard

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Device	Routing	Invert	Outlet Devices
#1	Primary	202.75'	15.0" Round Culvert L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 202.75' / 201.00' S= 0.0500 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#2	Device 1	204.75'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Device 1	203.25'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Discarded	202.50'	0.660 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.09 cfs @ 10.50 hrs HW=202.56' (Free Discharge)↳ **4=Exfiltration** (Exfiltration Controls 0.09 cfs)**Primary OutFlow** Max=0.97 cfs @ 12.49 hrs HW=203.91' TW=200.04' (Dynamic Tailwater)↳ **1=Culvert** (Passes 0.97 cfs of 4.36 cfs potential flow)↳ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↳ **3=Orifice/Grate** (Orifice Controls 0.97 cfs @ 2.77 fps)**Summary for Pond P205: POCKET WETLAND #2**

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 1.18" for 2YR event

Inflow = 6.36 cfs @ 12.16 hrs, Volume= 30,757 cf

Outflow = 0.95 cfs @ 13.46 hrs, Volume= 30,449 cf, Atten= 85%, Lag= 77.9 min

Primary = 0.95 cfs @ 13.46 hrs, Volume= 30,449 cf

Routed to Reach 18R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 197.00' Surf.Area= 538 sf Storage= 455 cf

Peak Elev= 199.32' @ 13.46 hrs Surf.Area= 8,320 sf Storage= 12,790 cf (12,335 cf above start)

Plug-Flow detention time= 162.2 min calculated for 29,994 cf (98% of inflow)

Center-of-Mass det. time= 141.3 min (991.3 - 850.0)

Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	65,076 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	371	0	0
197.00	538	455	455
198.00	5,675	3,107	3,561
200.00	9,686	15,361	18,922
202.00	13,696	23,382	42,304
203.00	15,427	14,562	56,866
203.50	17,413	8,210	65,076

Device	Routing	Invert	Outlet Devices
#1	Primary	202.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	196.00'	18.0" Round Culvert L= 63.0' Ke= 0.500 Inlet / Outlet Invert= 196.00' / 194.00' S= 0.0317 '/' Cc= 0.900

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n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
 #3 Device 2 197.00' **5.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
 #4 Device 2 202.00' **6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns**
 X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area)
 Limited to weir flow at low heads

Primary OutFlow Max=0.95 cfs @ 13.46 hrs HW=199.32' TW=192.12' (Dynamic Tailwater)

1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)
 2=Culvert (Passes 0.95 cfs of 13.64 cfs potential flow)
 3=Orifice/Grate (Orifice Controls 0.95 cfs @ 6.99 fps)
 4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond P206: STORMTECH INFILTRATION SYSTEM

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 2.69" for 2YR event
 Inflow = 4.55 cfs @ 12.09 hrs, Volume= 15,511 cf
 Outflow = 0.57 cfs @ 12.67 hrs, Volume= 15,510 cf, Atten= 87%, Lag= 34.8 min
 Discarded = 0.49 cfs @ 11.70 hrs, Volume= 15,395 cf
 Primary = 0.08 cfs @ 12.67 hrs, Volume= 115 cf
 Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 195.88' @ 12.67 hrs Surf.Area= 6,072 sf Storage= 5,128 cf

Plug-Flow detention time= 70.4 min calculated for 15,478 cf (100% of inflow)
 Center-of-Mass det. time= 70.2 min (844.7 - 774.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	194.67'	1,786 cf	39.50'W x 53.46'L x 3.33'H FIELD A 7,038 cf Overall - 2,573 cf Embedded = 4,466 cf x 40.0% Voids
#2A	195.00'	2,573 cf	ADS_StormTech SC-740 +Cap x 56 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 56 Chambers in 8 Rows
#3B	194.67'	3,296 cf	58.50'W x 67.70'L x 3.33'H FIELD B 13,201 cf Overall - 4,962 cf Embedded = 8,239 cf x 40.0% Voids
#4B	195.00'	4,962 cf	ADS_StormTech SC-740 +Cap x 108 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 108 Chambers in 12 Rows
		12,616 cf	Total Available Storage

Storage Group A created with Chamber Wizard
 Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	194.00'	18.0" Round Culvert L= 30.0' Ke= 0.200 Inlet / Outlet Invert= 194.00' / 193.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	195.85'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#3	Discarded	194.67'	3.500 in/hr Exfiltration over Surface area Phase-In= 0.01'

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Discarded OutFlow Max=0.49 cfs @ 11.70 hrs HW=194.73' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.49 cfs)**Primary OutFlow** Max=0.08 cfs @ 12.67 hrs HW=195.88' TW=0.00' (Dynamic Tailwater)↑ **1=Culvert** (Passes 0.08 cfs of 8.49 cfs potential flow)↑ **2=Sharp-Crested Rectangular Weir** (Weir Controls 0.08 cfs @ 0.60 fps)**Summary for Pond P207: INFILTRATION POND #2**

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth > 2.11" for 2YR event
 Inflow = 5.94 cfs @ 12.09 hrs, Volume= 20,756 cf
 Outflow = 0.92 cfs @ 12.69 hrs, Volume= 20,748 cf, Atten= 85%, Lag= 36.0 min
 Discarded = 0.92 cfs @ 12.69 hrs, Volume= 20,747 cf
 Primary = 0.00 cfs @ 12.69 hrs, Volume= 1 cf
 Routed to Reach 10r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 197.41' @ 12.69 hrs Surf.Area= 10,714 sf Storage= 6,296 cf

Plug-Flow detention time= 47.9 min calculated for 20,705 cf (100% of inflow)
 Center-of-Mass det. time= 47.6 min (851.4 - 803.8)

Volume	Invert	Avail.Storage	Storage Description
#1	196.80'	38,940 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.80	9,900	0	0
198.00	11,500	12,840	12,840
200.00	14,600	26,100	38,940

Device	Routing	Invert	Outlet Devices
#1	Primary	199.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	195.00'	15.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 194.50' S= 0.0125 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#3	Device 2	199.00'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads
#4	Device 2	197.40'	7.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#5	Discarded	196.80'	3.690 in/hr Exfiltration over Surface area Phase-In= 0.01'

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Discarded OutFlow Max=0.92 cfs @ 12.69 hrs HW=197.41' (Free Discharge)↳ **5=Exfiltration** (Exfiltration Controls 0.92 cfs)**Primary OutFlow** Max=0.00 cfs @ 12.69 hrs HW=197.41' TW=192.00' (Dynamic Tailwater)↳ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↳ **2=Culvert** (Passes 0.00 cfs of 7.90 cfs potential flow)↳ **3=Orifice/Grate** (Controls 0.00 cfs)↳ **4=Orifice/Grate** (Orifice Controls 0.00 cfs @ 0.35 fps)**Summary for Pond P210: POCKET WETLAND #1**

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 1.95" for 2YR event

Inflow = 5.24 cfs @ 12.09 hrs, Volume= 17,338 cf

Outflow = 0.19 cfs @ 15.89 hrs, Volume= 7,670 cf, Atten= 96%, Lag= 227.9 min

Primary = 0.19 cfs @ 15.89 hrs, Volume= 7,670 cf

Routed to Reach 15R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 201.00' Surf.Area= 376 sf Storage= 591 cf

Peak Elev= 203.72' @ 15.89 hrs Surf.Area= 7,492 sf Storage= 12,623 cf (12,032 cf above start)

Plug-Flow detention time= 431.4 min calculated for 7,064 cf (41% of inflow)

Center-of-Mass det. time= 275.7 min (1,079.2 - 803.5)

Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	43,190 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	218	0	0
200.00	294	256	256
201.00	376	335	591
202.00	3,991	2,184	2,775
204.00	8,073	12,064	14,839
206.00	13,272	21,345	36,184
206.50	14,753	7,006	43,190

Device	Routing	Invert	Outlet Devices
#1	Primary	205.10'	20.0' long x 15.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	202.25'	12.0" Round Culvert L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 202.25' / 202.03' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	202.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 2	204.50'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads

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Primary OutFlow Max=0.19 cfs @ 15.89 hrs HW=203.72' TW=202.05' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Passes 0.19 cfs of 3.07 cfs potential flow)↑ **3=Orifice/Grate** (Orifice Controls 0.19 cfs @ 5.51 fps)↑ **4=Orifice/Grate** (Controls 0.00 cfs)**Summary for Pond P212: INFILTRATION POND #1**

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth > 1.99" for 2YR event

Inflow = 11.46 cfs @ 12.11 hrs, Volume= 45,804 cf

Outflow = 1.81 cfs @ 12.89 hrs, Volume= 45,792 cf, Atten= 84%, Lag= 46.3 min

Discarded = 1.65 cfs @ 12.89 hrs, Volume= 45,240 cf

Primary = 0.16 cfs @ 12.89 hrs, Volume= 552 cf

Routed to Reach r211 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.52' @ 12.89 hrs Surf.Area= 13,900 sf Storage= 16,746 cf

Plug-Flow detention time= 88.3 min calculated for 45,792 cf (100% of inflow)

Center-of-Mass det. time= 88.2 min (903.6 - 815.4)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	60,838 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	7,528	0	0
201.00	12,295	9,912	9,912
202.00	15,371	13,833	23,745
204.00	21,722	37,093	60,838

Device	Routing	Invert	Outlet Devices
#1	Primary	202.50'	25.0' long x 20.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	201.30'	12.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.10' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#3	Discarded	200.00'	5.130 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=1.65 cfs @ 12.89 hrs HW=201.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 1.65 cfs)**Primary OutFlow** Max=0.16 cfs @ 12.89 hrs HW=201.52' TW=200.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.16 cfs @ 1.81 fps)

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Summary for Link AP1: ANALYSIS POINT 1

Inflow Area = 11,582 sf, 80.55% Impervious, Inflow Depth > 2.32" for 2YR event
Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,241 cf
Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,241 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 815,829 sf, 13.52% Impervious, Inflow Depth > 1.22" for 2YR event
Inflow = 8.39 cfs @ 12.39 hrs, Volume= 83,261 cf
Primary = 8.39 cfs @ 12.39 hrs, Volume= 83,261 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 46,924 sf, 0.00% Impervious, Inflow Depth > 1.03" for 2YR event
Inflow = 1.20 cfs @ 12.10 hrs, Volume= 4,014 cf
Primary = 1.20 cfs @ 12.10 hrs, Volume= 4,014 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP4: ANALYSIS POINT #4

Inflow Area = 1,699,585 sf, 28.90% Impervious, Inflow Depth > 0.62" for 2YR event
Inflow = 7.38 cfs @ 12.48 hrs, Volume= 88,185 cf
Primary = 7.38 cfs @ 12.48 hrs, Volume= 88,185 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentB1: MULTIFAMILY BLDG	Runoff Area=25,099 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=2.73 cfs 9,873 cf
SubcatchmentB2: MULTIFAMILY BLDG	Runoff Area=17,602 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=1.91 cfs 6,924 cf
SubcatchmentC1: CB #1	Runoff Area=26,588 sf 32.90% Impervious Runoff Depth>2.24" Flow Length=413' Tc=16.1 min CN=73 Runoff=1.16 cfs 4,967 cf
SubcatchmentC10: CB #10	Runoff Area=9,660 sf 94.65% Impervious Runoff Depth>4.60" Tc=6.0 min CN=97 Runoff=1.04 cfs 3,707 cf
SubcatchmentC11: CB #11	Runoff Area=13,834 sf 51.04% Impervious Runoff Depth>3.43" Tc=6.0 min CN=86 Runoff=1.23 cfs 3,951 cf
SubcatchmentC12: CB #12	Runoff Area=9,596 sf 47.54% Impervious Runoff Depth>3.33" Tc=6.0 min CN=85 Runoff=0.83 cfs 2,662 cf
SubcatchmentC13: CB #13	Runoff Area=8,572 sf 67.67% Impervious Runoff Depth>3.83" Tc=6.0 min CN=90 Runoff=0.84 cfs 2,739 cf
SubcatchmentC14: CB #14	Runoff Area=12,986 sf 75.60% Impervious Runoff Depth>3.33" Tc=6.0 min CN=85 Runoff=1.13 cfs 3,602 cf
SubcatchmentC15: CB #15	Runoff Area=4,895 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.53 cfs 1,926 cf
SubcatchmentC16: CB #16	Runoff Area=8,063 sf 64.54% Impervious Runoff Depth>2.76" Tc=6.0 min CN=79 Runoff=0.59 cfs 1,858 cf
SubcatchmentC17: CB #17	Runoff Area=11,845 sf 77.88% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=1.22 cfs 4,102 cf
SubcatchmentC18: CB #18	Runoff Area=19,016 sf 66.41% Impervious Runoff Depth>3.83" Tc=6.0 min CN=90 Runoff=1.85 cfs 6,077 cf
SubcatchmentC2: CB #2	Runoff Area=19,138 sf 74.07% Impervious Runoff Depth>3.83" Tc=6.0 min CN=90 Runoff=1.87 cfs 6,116 cf
SubcatchmentC20: CB #20	Runoff Area=11,694 sf 79.49% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=1.20 cfs 4,050 cf
SubcatchmentC21: CB #21	Runoff Area=9,093 sf 91.54% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.94 cfs 3,149 cf
SubcatchmentC22: CB #22	Runoff Area=9,139 sf 88.07% Impervious Runoff Depth>4.49" Tc=6.0 min CN=96 Runoff=0.98 cfs 3,419 cf

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SubcatchmentC23: CB #23	Runoff Area=9,139 sf 62.65% Impervious Runoff Depth>3.73" Tc=6.0 min CN=89 Runoff=0.87 cfs 2,841 cf
SubcatchmentC24: CB #24	Runoff Area=1,933 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.21 cfs 760 cf
SubcatchmentC25: CB #25	Runoff Area=8,811 sf 96.03% Impervious Runoff Depth>4.60" Tc=6.0 min CN=97 Runoff=0.95 cfs 3,381 cf
SubcatchmentC26: CB #26	Runoff Area=14,532 sf 64.66% Impervious Runoff Depth>4.05" Tc=6.0 min CN=92 Runoff=1.47 cfs 4,901 cf
SubcatchmentC27: CB #27	Runoff Area=9,808 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=1.07 cfs 3,858 cf
SubcatchmentC28: CB #28	Runoff Area=10,368 sf 51.34% Impervious Runoff Depth>3.63" Tc=6.0 min CN=88 Runoff=0.97 cfs 3,135 cf
SubcatchmentC29: CB #29	Runoff Area=6,798 sf 77.21% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.70 cfs 2,354 cf
SubcatchmentC3: CB #3	Runoff Area=17,454 sf 72.05% Impervious Runoff Depth>3.63" Tc=6.0 min CN=88 Runoff=1.63 cfs 5,277 cf
SubcatchmentC30: CB #30	Runoff Area=12,141 sf 63.92% Impervious Runoff Depth>3.73" Tc=6.0 min CN=89 Runoff=1.16 cfs 3,775 cf
SubcatchmentC31: CB #31	Runoff Area=11,736 sf 71.29% Impervious Runoff Depth>3.94" Tc=6.0 min CN=91 Runoff=1.17 cfs 3,854 cf
SubcatchmentC32: CB #32	Runoff Area=10,801 sf 62.85% Impervious Runoff Depth>3.73" Tc=6.0 min CN=89 Runoff=1.03 cfs 3,358 cf
SubcatchmentC33: CB #33	Runoff Area=4,514 sf 77.96% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.46 cfs 1,563 cf
SubcatchmentC34: CB #34	Runoff Area=7,027 sf 72.62% Impervious Runoff Depth>3.94" Tc=6.0 min CN=91 Runoff=0.70 cfs 2,307 cf
SubcatchmentC35: CB #35	Runoff Area=2,891 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.31 cfs 1,137 cf
SubcatchmentC36: CB #36	Runoff Area=6,622 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.72 cfs 2,605 cf
SubcatchmentC37: CB #37	Runoff Area=1,258 sf 93.72% Impervious Runoff Depth>4.60" Tc=6.0 min CN=97 Runoff=0.14 cfs 483 cf
SubcatchmentC38: CB #38	Runoff Area=19,951 sf 77.05% Impervious Runoff Depth>3.83" Tc=6.0 min CN=90 Runoff=1.94 cfs 6,376 cf
SubcatchmentC39: CB #39	Runoff Area=7,773 sf 98.44% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.85 cfs 3,058 cf

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SubcatchmentC4: CB #4	Runoff Area=44,168 sf 23.30% Impervious Runoff Depth>1.92" Flow Length=545' Tc=21.4 min CN=69 Runoff=1.46 cfs 7,062 cf
SubcatchmentC40: CB #40	Runoff Area=4,556 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.50 cfs 1,792 cf
SubcatchmentC41: CB #41	Runoff Area=12,750 sf 69.28% Impervious Runoff Depth>3.53" Tc=6.0 min CN=87 Runoff=1.16 cfs 3,747 cf
SubcatchmentC42: CB #42	Runoff Area=11,277 sf 36.51% Impervious Runoff Depth>2.41" Tc=6.0 min CN=75 Runoff=0.72 cfs 2,269 cf
SubcatchmentC43: CB #43	Runoff Area=4,084 sf 81.61% Impervious Runoff Depth>3.94" Tc=6.0 min CN=91 Runoff=0.41 cfs 1,341 cf
SubcatchmentC44: CB #44	Runoff Area=1,662 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.18 cfs 654 cf
SubcatchmentC45: CB #45	Runoff Area=2,109 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.23 cfs 830 cf
SubcatchmentC46: CB #46	Runoff Area=1,371 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.15 cfs 539 cf
SubcatchmentC47: CB#47	Runoff Area=3,060 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.33 cfs 1,204 cf
SubcatchmentC48: CB#48	Runoff Area=60,166 sf 25.94% Impervious Runoff Depth>2.00" Flow Length=400' Tc=11.8 min CN=70 Runoff=2.61 cfs 10,036 cf
SubcatchmentC49: CB#49	Runoff Area=5,895 sf 28.14% Impervious Runoff Depth>2.08" Tc=6.0 min CN=71 Runoff=0.32 cfs 1,024 cf
SubcatchmentC5: CB #5	Runoff Area=1,456 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.16 cfs 573 cf
SubcatchmentC50: CB#50	Runoff Area=5,175 sf 33.29% Impervious Runoff Depth>2.16" Tc=6.0 min CN=72 Runoff=0.29 cfs 934 cf
SubcatchmentC51: CB #51	Runoff Area=9,779 sf 84.41% Impervious Runoff Depth>4.05" Tc=6.0 min CN=92 Runoff=0.99 cfs 3,298 cf
SubcatchmentC6: CB #6	Runoff Area=1,821 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.20 cfs 716 cf
SubcatchmentC7: CB #7	Runoff Area=12,883 sf 48.58% Impervious Runoff Depth>2.76" Tc=6.0 min CN=79 Runoff=0.94 cfs 2,968 cf
SubcatchmentC8: CB #8	Runoff Area=44,098 sf 25.01% Impervious Runoff Depth>2.00" Flow Length=520' Tc=18.2 min CN=70 Runoff=1.63 cfs 7,344 cf

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SubcatchmentC9: CB #9	Runoff Area=14,681 sf 77.77% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=1.51 cfs 5,084 cf
SubcatchmentCH1: CLUBHOUSE	Runoff Area=6,087 sf 100.00% Impervious Runoff Depth>4.72" Tc=6.0 min CN=98 Runoff=0.66 cfs 2,394 cf
SubcatchmentH1: SF #1	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.29 cfs 974 cf
SubcatchmentH10: SF #10	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.26 cfs 888 cf
SubcatchmentH11: SF #11	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.29 cfs 1,000 cf
SubcatchmentH12: SF #12	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.34 cfs 1,168 cf
SubcatchmentH13: SF #13	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>4.49" Tc=6.0 min CN=96 Runoff=0.44 cfs 1,533 cf
SubcatchmentH14: SF #14	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.26 cfs 888 cf
SubcatchmentH15: SF #15	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.20 cfs 683 cf
SubcatchmentH16: SF #16	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.26 cfs 888 cf
SubcatchmentH17: SF #17	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>3.83" Tc=6.0 min CN=90 Runoff=0.19 cfs 627 cf
SubcatchmentH18: SF #18	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>3.94" Tc=6.0 min CN=91 Runoff=0.27 cfs 900 cf
SubcatchmentH19: SF #19	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>3.94" Tc=6.0 min CN=91 Runoff=0.24 cfs 799 cf
SubcatchmentH2: SF #2	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>4.05" Tc=6.0 min CN=92 Runoff=0.19 cfs 648 cf
SubcatchmentH20: SF #20	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>3.83" Tc=6.0 min CN=90 Runoff=0.19 cfs 614 cf
SubcatchmentH21: SF #21	Runoff Area=1,961 sf 86.33% Impervious Runoff Depth>3.94" Tc=6.0 min CN=91 Runoff=0.19 cfs 644 cf
SubcatchmentH22: SF #22	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.34 cfs 1,168 cf
SubcatchmentH23: SF #23	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.25 cfs 851 cf

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SubcatchmentH24: SF #24	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.29 cfs 1,000 cf
SubcatchmentH25: SF #25	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.29 cfs 1,000 cf
SubcatchmentH26: SF #26	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.25 cfs 851 cf
SubcatchmentH27: SF #27	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.26 cfs 888 cf
SubcatchmentH28: SF #28	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.26 cfs 888 cf
SubcatchmentH29: SF #29	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.25 cfs 851 cf
SubcatchmentH3: SF #3	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.24 cfs 829 cf
SubcatchmentH30: SF #30	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.29 cfs 1,000 cf
SubcatchmentH31: SF #31	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.29 cfs 1,000 cf
SubcatchmentH32: SF #32	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.25 cfs 851 cf
SubcatchmentH33: SF #33	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.20 cfs 683 cf
SubcatchmentH34: SF #34	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.43 cfs 1,495 cf
SubcatchmentH35: SF #35	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.43 cfs 1,495 cf
SubcatchmentH36: SF #36	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.34 cfs 1,168 cf
SubcatchmentH37: SF #37	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.33 cfs 1,138 cf
SubcatchmentH38: SF #38	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.29 cfs 974 cf
SubcatchmentH39: SF #39	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.24 cfs 829 cf

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SubcatchmentH4: SF #4	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.29 cfs 974 cf
SubcatchmentH40: SF #40	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.29 cfs 974 cf
SubcatchmentH41: SF #41	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.29 cfs 974 cf
SubcatchmentH42: SF #42	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.20 cfs 679 cf
SubcatchmentH43: SF #43	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.20 cfs 679 cf
SubcatchmentH44: SF #44	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.20 cfs 679 cf
SubcatchmentH45: SF #45	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.24 cfs 829 cf
SubcatchmentH46: SF #46	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.33 cfs 1,138 cf
SubcatchmentH47: SF #47	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>4.05" Tc=6.0 min CN=92 Runoff=0.19 cfs 648 cf
SubcatchmentH48: SF #48	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.20 cfs 679 cf
SubcatchmentH5: SF #5	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.24 cfs 829 cf
SubcatchmentH7: SF #7	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.26 cfs 888 cf
SubcatchmentH8: SF #8	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.25 cfs 851 cf
SubcatchmentH9: SF #9	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.29 cfs 1,000 cf
SubcatchmentS201: SUMMER STREET	Runoff Area=11,582 sf 80.55% Impervious Runoff Depth>3.94" Tc=6.0 min CN=91 Runoff=1.15 cfs 3,803 cf
SubcatchmentS202: EXISTING WETLAND	Runoff Area=401,873 sf 3.47% Impervious Runoff Depth>2.67" Flow Length=1,049' Tc=21.5 min CN=78 Runoff=18.89 cfs 89,300 cf
SubcatchmentS203: POCKET WETLAND #1	Runoff Area=25,574 sf 1.29% Impervious Runoff Depth>2.33" Tc=6.0 min CN=74 Runoff=1.57 cfs 4,966 cf
SubcatchmentS204: EXISTING WETLANDS	Runoff Area=269,528 sf 0.10% Impervious Runoff Depth>2.76" Flow Length=632' Tc=22.6 min CN=79 Runoff=12.83 cfs 61,883 cf

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Subcatchment S205: ISOLATED WETLAND	Runoff Area=46,924 sf 0.00% Impervious Runoff Depth>2.25" Tc=6.0 min CN=73 Runoff=2.77 cfs 8,786 cf
Subcatchment S206: OVERLAND FLOW	Runoff Area=647,746 sf 0.00% Impervious Runoff Depth>1.62" Flow Length=795' Tc=24.3 min CN=65 Runoff=16.62 cfs 87,279 cf
Subcatchment S207: INFILTRATION POND	Runoff Area=21,058 sf 0.00% Impervious Runoff Depth>3.33" Tc=6.0 min CN=85 Runoff=1.83 cfs 5,841 cf
Subcatchment S208: GRASS AREA	Runoff Area=13,656 sf 0.00% Impervious Runoff Depth>2.16" Tc=6.0 min CN=72 Runoff=0.77 cfs 2,464 cf
Subcatchment S209: WETLAND C	Runoff Area=108,678 sf 0.00% Impervious Runoff Depth>2.24" Flow Length=550' Slope=0.0150 '/' Tc=27.3 min CN=73 Runoff=3.83 cfs 20,247 cf
Subcatchment S210: INFILTRATION	Runoff Area=114,678 sf 23.23% Impervious Runoff Depth>3.22" Flow Length=580' Slope=0.0150 '/' Tc=16.5 min CN=84 Runoff=7.22 cfs 30,818 cf
Subcatchment S211: POCKET WETLAND #2	Runoff Area=45,277 sf 0.00% Impervious Runoff Depth>2.49" Flow Length=528' Slope=0.0400 '/' Tc=22.0 min CN=76 Runoff=1.97 cfs 9,400 cf
Subcatchment S212: SWALE	Runoff Area=31,136 sf 0.00% Impervious Runoff Depth>2.58" Flow Length=150' Slope=0.0050 '/' Tc=18.8 min CN=77 Runoff=1.49 cfs 6,694 cf
Subcatchment S213: COURTYARD	Runoff Area=21,271 sf 40.78% Impervious Runoff Depth>2.95" Tc=6.0 min CN=81 Runoff=1.65 cfs 5,225 cf
Subcatchment T1: Trench Drain 1	Runoff Area=9,454 sf 79.45% Impervious Runoff Depth>4.16" Tc=6.0 min CN=93 Runoff=0.97 cfs 3,274 cf
Subcatchment T2: Drive Under B2	Runoff Area=5,585 sf 70.30% Impervious Runoff Depth>2.95" Tc=6.0 min CN=81 Runoff=0.43 cfs 1,372 cf
Subcatchment TH1: TOWN HOUSE #1	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.62 cfs 2,107 cf
Subcatchment TH10: TOWN HOUSE #10	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.45 cfs 1,553 cf
Subcatchment TH11: TOWN HOUSE #11	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.63 cfs 2,162 cf
Subcatchment TH2: TOWN HOUSE #2	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>4.27" Tc=6.0 min CN=94 Runoff=0.62 cfs 2,107 cf
Subcatchment TH3: TOWN HOUSE #3	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.36 cfs 1,248 cf
Subcatchment TH4: TOWN HOUSE #4	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.45 cfs 1,553 cf

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Subcatchment TH5: TOWN HOUSE #5	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.36 cfs 1,248 cf
Subcatchment TH6: TOWN HOUSE #6	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.45 cfs 1,553 cf
Subcatchment TH7: TOWN HOUSE #7	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.45 cfs 1,553 cf
Subcatchment TH8: TOWN HOUSE #8	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.63 cfs 2,162 cf
Subcatchment TH9: TOWN HOUSE #9	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>4.38" Tc=6.0 min CN=95 Runoff=0.45 cfs 1,553 cf
Reach 1R: OVERLAND FLOW	Avg. Flow Depth=0.03' Max Vel=0.04 fps Inflow=1.17 cfs 2,965 cf n=0.400 L=1,350.0' S=0.0133 ' Capacity=22.21 cfs Outflow=0.06 cfs 1,805 cf
Reach 3R: OVERLAND FLOW	Avg. Flow Depth=0.05' Max Vel=0.07 fps Inflow=0.75 cfs 1,937 cf n=0.400 L=475.0' S=0.0174 ' Capacity=20.48 cfs Outflow=0.13 cfs 1,756 cf
Reach 4R: OVERLAND FLOW	Avg. Flow Depth=0.06' Max Vel=0.08 fps Inflow=1.26 cfs 3,320 cf n=0.400 L=535.0' S=0.0224 ' Capacity=30.09 cfs Outflow=0.24 cfs 3,046 cf
Reach 7R: OVERLAND FLOW	Avg. Flow Depth=0.03' Max Vel=0.06 fps Inflow=0.79 cfs 2,289 cf n=0.400 L=730.0' S=0.0247 ' Capacity=30.21 cfs Outflow=0.10 cfs 1,936 cf
Reach 8R: OVERLAND FLOW	Avg. Flow Depth=0.03' Max Vel=0.06 fps Inflow=0.77 cfs 2,142 cf n=0.400 L=756.0' S=0.0238 ' Capacity=31.01 cfs Outflow=0.09 cfs 1,781 cf
Reach 9R: OVERLAND FLOW	Avg. Flow Depth=0.12' Max Vel=0.17 fps Inflow=1.54 cfs 3,758 cf n=0.400 L=380.0' S=0.0368 ' Capacity=19.23 cfs Outflow=0.56 cfs 3,645 cf
Reach 10R: OVERLAND FLOW	Avg. Flow Depth=0.21' Max Vel=0.24 fps Inflow=1.18 cfs 5,181 cf n=0.400 L=164.0' S=0.0366 ' Capacity=17.57 cfs Outflow=1.09 cfs 5,180 cf
Reach 11R: 4x4 Open Bottom Culvert	Avg. Flow Depth=0.66' Max Vel=1.65 fps Inflow=4.37 cfs 51,349 cf 48.0" x 48.0" Box Pipe n=0.069 L=30.0' S=0.0150 ' Capacity=42.20 cfs Outflow=4.37 cfs 51,340 cf
Reach 12R: OVERLAND FLOW	Avg. Flow Depth=0.14' Max Vel=0.15 fps Inflow=1.86 cfs 6,024 cf n=0.400 L=250.0' S=0.0240 ' Capacity=29.80 cfs Outflow=1.03 cfs 5,895 cf
Reach 13R: OVERLAND FLOW	Avg. Flow Depth=0.03' Max Vel=0.04 fps Inflow=0.49 cfs 1,769 cf n=0.400 L=660.0' S=0.0152 ' Capacity=24.73 cfs Outflow=0.07 cfs 1,443 cf
Reach 14R: OVERLAND FLOW	Avg. Flow Depth=0.09' Max Vel=0.12 fps Inflow=2.05 cfs 9,401 cf n=0.400 L=852.0' S=0.0246 ' Capacity=31.55 cfs Outflow=0.53 cfs 8,435 cf
Reach 15R: OVERLAND FLOW	Avg. Flow Depth=0.11' Max Vel=0.12 fps Inflow=0.86 cfs 14,245 cf n=0.400 L=300.0' S=0.0200 ' Capacity=27.21 cfs Outflow=0.65 cfs 13,379 cf
Reach 16R: OVERLAND FLOW	Avg. Flow Depth=0.03' Max Vel=0.06 fps Inflow=0.31 cfs 876 cf n=0.400 L=263.0' S=0.0266 ' Capacity=31.39 cfs Outflow=0.08 cfs 845 cf

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Reach 18R: OVERLAND FLOW Avg. Flow Depth=0.14' Max Vel=0.18 fps Inflow=1.32 cfs 54,043 cf
n=0.400 L=184.0' S=0.0326 ' /' Capacity=36.29 cfs Outflow=1.32 cfs 52,977 cf

Reach 20R: OVERLAND FLOW Avg. Flow Depth=0.18' Max Vel=0.11 fps Inflow=1.85 cfs 14,304 cf
n=0.400 L=560.0' S=0.0093 ' /' Capacity=18.54 cfs Outflow=1.06 cfs 13,697 cf

Reach 23R: OVERLAND FLOW Avg. Flow Depth=0.30' Max Vel=0.22 fps Inflow=4.37 cfs 51,340 cf
n=0.400 L=237.0' S=0.0211 ' /' Capacity=31.93 cfs Outflow=3.75 cfs 50,801 cf

Reach R202: OVERLAND FLOW Avg. Flow Depth=0.39' Max Vel=0.20 fps Inflow=18.89 cfs 89,284 cf
n=0.400 L=700.0' S=0.0107 ' /' Capacity=42.56 cfs Outflow=8.46 cfs 84,498 cf

Reach R211: OVERLAND FLOW Avg. Flow Depth=0.28' Max Vel=0.14 fps Inflow=2.56 cfs 16,419 cf
n=0.400 L=600.0' S=0.0087 ' /' Capacity=14.51 cfs Outflow=1.52 cfs 16,033 cf

Reach SC1: Stream Crossing #1 Avg. Flow Depth=0.35' Max Vel=3.38 fps Inflow=18.89 cfs 89,300 cf
192.0" x 60.0", R=207.0" Arch Pipe n=0.030 L=43.1' S=0.0200 ' /' Capacity=722.91 cfs Outflow=18.89 cfs 89,284 cf

Reach SC2: Stream Crossing #2 Avg. Flow Depth=0.08' Max Vel=1.45 fps Inflow=1.78 cfs 8,374 cf
192.0" x 60.0", R=180.0" Arch Pipe n=0.030 L=36.5' S=0.0241 ' /' Capacity=768.96 cfs Outflow=1.77 cfs 8,372 cf

Pond 5R: TRENCH DRAIN Peak Elev=198.02' Inflow=0.97 cfs 3,274 cf
15.0" Round Culvert n=0.012 L=24.0' S=0.0050 ' /' Outflow=0.97 cfs 3,274 cf

Pond 11P: YARD DRAIN Peak Elev=207.38' Storage=702 cf Inflow=1.65 cfs 5,225 cf
Outflow=1.21 cfs 5,183 cf

Pond CB1: CB#1 Peak Elev=208.52' Inflow=1.16 cfs 4,967 cf
12.0" Round Culvert n=0.013 L=14.1' S=0.0050 ' /' Outflow=1.16 cfs 4,967 cf

Pond CB10: CB #10 Peak Elev=210.44' Inflow=1.04 cfs 3,707 cf
12.0" Round Culvert n=0.013 L=33.8' S=0.0050 ' /' Outflow=1.04 cfs 3,707 cf

Pond CB11: CB #11 Peak Elev=210.58' Inflow=1.23 cfs 3,951 cf
12.0" Round Culvert n=0.013 L=26.3' S=0.0103 ' /' Outflow=1.23 cfs 3,951 cf

Pond CB12: CB #12 Peak Elev=210.26' Inflow=0.83 cfs 2,662 cf
12.0" Round Culvert n=0.013 L=14.0' S=0.0050 ' /' Outflow=0.83 cfs 2,662 cf

Pond CB13: CB #13 Peak Elev=210.26' Inflow=0.84 cfs 2,739 cf
12.0" Round Culvert n=0.013 L=14.6' S=0.0048 ' /' Outflow=0.84 cfs 2,739 cf

Pond CB14: CB #14 Peak Elev=201.60' Inflow=1.13 cfs 3,602 cf
12.0" Round Culvert n=0.013 L=23.2' S=0.0052 ' /' Outflow=1.13 cfs 3,602 cf

Pond CB15: CB #15 Peak Elev=201.49' Inflow=0.53 cfs 1,926 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 ' /' Outflow=0.53 cfs 1,926 cf

Pond CB16: CB #16 Peak Elev=203.97' Inflow=0.59 cfs 1,858 cf
12.0" Round Culvert n=0.013 L=20.9' S=0.0067 ' /' Outflow=0.59 cfs 1,858 cf

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Pond CB17: CB #17

Peak Elev=205.67' Inflow=1.22 cfs 4,102 cf
12.0" Round Culvert n=0.013 L=13.8' S=0.0094 ' Outflow=1.22 cfs 4,102 cf

Pond CB18: CB #18

Peak Elev=205.68' Inflow=2.18 cfs 6,983 cf
15.0" Round Culvert n=0.013 L=25.1' S=0.0052 ' Outflow=2.18 cfs 6,983 cf

Pond CB2: CB#2

Peak Elev=205.75' Inflow=1.87 cfs 6,116 cf
12.0" Round Culvert n=0.013 L=92.1' S=0.0050 ' Outflow=1.87 cfs 6,116 cf

Pond CB20: CB #20

Peak Elev=204.65' Inflow=1.20 cfs 4,050 cf
12.0" Round Culvert n=0.013 L=30.3' S=0.0053 ' Outflow=1.20 cfs 4,050 cf

Pond CB21: CB #21

Peak Elev=204.92' Inflow=0.94 cfs 3,149 cf
12.0" Round Culvert n=0.013 L=26.0' S=0.0050 ' Outflow=0.94 cfs 3,149 cf

Pond CB22: CB #22

Peak Elev=205.94' Inflow=0.98 cfs 3,419 cf
12.0" Round Culvert n=0.012 L=16.1' S=0.0050 ' Outflow=0.98 cfs 3,419 cf

Pond CB23: CB #23

Peak Elev=205.98' Inflow=0.87 cfs 2,841 cf
12.0" Round Culvert n=0.012 L=16.3' S=0.0055 ' Outflow=0.87 cfs 2,841 cf

Pond CB24: CB #24

Peak Elev=205.63' Inflow=0.21 cfs 760 cf
12.0" Round Culvert n=0.012 L=12.1' S=0.0050 ' Outflow=0.21 cfs 760 cf

Pond CB25: CB #25

Peak Elev=205.83' Inflow=0.95 cfs 3,381 cf
12.0" Round Culvert n=0.012 L=11.4' S=0.0053 ' Outflow=0.95 cfs 3,381 cf

Pond CB26: CB #26

Peak Elev=202.54' Inflow=1.47 cfs 4,901 cf
12.0" Round Culvert n=0.013 L=42.5' S=0.0052 ' Outflow=1.47 cfs 4,901 cf

Pond CB27: CB #27

Peak Elev=201.70' Inflow=1.07 cfs 3,858 cf
12.0" Round Culvert n=0.013 L=18.0' S=0.0056 ' Outflow=1.07 cfs 3,858 cf

Pond CB28: CB #28

Peak Elev=198.58' Inflow=0.97 cfs 3,135 cf
12.0" Round Culvert n=0.013 L=13.7' S=0.0044 ' Outflow=0.97 cfs 3,135 cf

Pond CB29: CB #29

Peak Elev=206.09' Inflow=0.70 cfs 2,354 cf
12.0" Round Culvert n=0.013 L=13.5' S=0.0052 ' Outflow=0.70 cfs 2,354 cf

Pond CB3: CB#3

Peak Elev=208.64' Inflow=1.63 cfs 5,277 cf
12.0" Round Culvert n=0.013 L=10.2' S=0.0059 ' Outflow=1.63 cfs 5,277 cf

Pond CB30: CB #30

Peak Elev=206.18' Inflow=1.16 cfs 3,775 cf
12.0" Round Culvert n=0.013 L=17.5' S=0.0051 ' Outflow=1.16 cfs 3,775 cf

Pond CB31: CB #31

Peak Elev=204.88' Inflow=1.17 cfs 3,854 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' Outflow=1.17 cfs 3,854 cf

Pond CB32: CB #32

Peak Elev=204.83' Inflow=1.03 cfs 3,358 cf
12.0" Round Culvert n=0.013 L=16.3' S=0.0049 ' Outflow=1.03 cfs 3,358 cf

Pond CB33: CB #33

Peak Elev=205.77' Inflow=0.46 cfs 1,563 cf
12.0" Round Culvert n=0.013 L=11.7' S=0.0051 ' Outflow=0.46 cfs 1,563 cf

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Pond CB34: CB #34

Peak Elev=205.81' Inflow=0.70 cfs 2,307 cf
12.0" Round Culvert n=0.013 L=16.5' S=0.0048 ' Outflow=0.70 cfs 2,307 cf

Pond CB35: CB #35

Peak Elev=207.38' Inflow=0.31 cfs 1,137 cf
12.0" Round Culvert n=0.013 L=15.2' S=0.0053 ' Outflow=0.31 cfs 1,137 cf

Pond CB36: CB #36

Peak Elev=207.56' Inflow=0.72 cfs 2,605 cf
12.0" Round Culvert n=0.013 L=16.1' S=0.0050 ' Outflow=0.72 cfs 2,605 cf

Pond CB37: CB #37

Peak Elev=209.25' Inflow=0.14 cfs 483 cf
12.0" Round Culvert n=0.013 L=77.2' S=0.0098 ' Outflow=0.14 cfs 483 cf

Pond CB38: CB #38

Peak Elev=210.63' Inflow=1.94 cfs 6,376 cf
12.0" Round Culvert n=0.012 L=16.7' S=0.0048 ' Outflow=1.94 cfs 6,376 cf

Pond CB39: CB #39

Peak Elev=210.26' Inflow=0.85 cfs 3,058 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' Outflow=0.85 cfs 3,058 cf

Pond CB4: CB#4

Peak Elev=212.73' Inflow=1.46 cfs 7,062 cf
15.0" Round Culvert n=0.012 L=13.1' S=0.0046 ' Outflow=1.46 cfs 7,062 cf

Pond CB40: CB #40

Peak Elev=214.32' Inflow=0.50 cfs 1,792 cf
12.0" Round Culvert n=0.013 L=26.7' S=0.0049 ' Outflow=0.50 cfs 1,792 cf

Pond CB41: CB #41

Peak Elev=214.58' Inflow=1.16 cfs 3,747 cf
12.0" Round Culvert n=0.013 L=18.4' S=0.0049 ' Outflow=1.16 cfs 3,747 cf

Pond CB42: CB #42

Peak Elev=218.37' Inflow=0.72 cfs 2,269 cf
12.0" Round Culvert n=0.013 L=58.1' S=0.0076 ' Outflow=0.72 cfs 2,269 cf

Pond CB43: CB #43

Peak Elev=220.44' Inflow=0.41 cfs 1,341 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' Outflow=0.41 cfs 1,341 cf

Pond CB44: CB #44

Peak Elev=220.37' Inflow=0.18 cfs 654 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' Outflow=0.18 cfs 654 cf

Pond CB45: CB #45

Peak Elev=221.57' Inflow=0.23 cfs 830 cf
12.0" Round Culvert n=0.013 L=18.2' S=0.0049 ' Outflow=0.23 cfs 830 cf

Pond CB46: CB #46

Peak Elev=221.76' Inflow=0.15 cfs 539 cf
12.0" Round Culvert n=0.013 L=15.3' S=0.0052 ' Outflow=0.15 cfs 539 cf

Pond CB47: CB#47

Peak Elev=225.33' Inflow=0.33 cfs 1,204 cf
12.0" Round Culvert n=0.012 L=20.9' S=0.0373 ' Outflow=0.33 cfs 1,204 cf

Pond CB48: CB#48

Peak Elev=225.31' Inflow=2.61 cfs 10,036 cf
15.0" Round Culvert n=0.012 L=16.9' S=0.0278 ' Outflow=2.61 cfs 10,036 cf

Pond CB49: CB#49

Peak Elev=216.58' Inflow=0.32 cfs 1,024 cf
12.0" Round Culvert n=0.012 L=15.4' S=0.0156 ' Outflow=0.32 cfs 1,024 cf

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Pond CB5: CB#5Peak Elev=212.34' Inflow=0.16 cfs 573 cf
12.0" Round Culvert n=0.012 L=30.5' S=0.0049 '/' Outflow=0.16 cfs 573 cf**Pond CB50: CB#50**Peak Elev=215.63' Inflow=0.29 cfs 934 cf
12.0" Round Culvert n=0.012 L=17.3' S=0.0497 '/' Outflow=0.29 cfs 934 cf**Pond CB51: CB #51**Peak Elev=210.23' Inflow=0.99 cfs 3,298 cf
12.0" Round Culvert n=0.013 L=16.9' S=0.0047 '/' Outflow=0.99 cfs 3,298 cf**Pond CB6: CB#6**Peak Elev=212.61' Inflow=0.20 cfs 716 cf
12.0" Round Culvert n=0.012 L=38.3' S=0.0112 '/' Outflow=0.20 cfs 716 cf**Pond CB7: CB#7**Peak Elev=215.11' Inflow=0.94 cfs 2,968 cf
12.0" Round Culvert n=0.013 L=104.0' S=0.0088 '/' Outflow=0.94 cfs 2,968 cf**Pond CB8: CB#8**Peak Elev=214.90' Inflow=1.63 cfs 7,344 cf
12.0" Round Culvert n=0.013 L=12.1' S=0.0050 '/' Outflow=1.63 cfs 7,344 cf**Pond CB9: CB #9**Peak Elev=210.76' Inflow=1.51 cfs 5,084 cf
12.0" Round Culvert n=0.013 L=19.9' S=0.0196 '/' Outflow=1.51 cfs 5,084 cf**Pond D1: DMH#1**Peak Elev=204.52' Inflow=10.44 cfs 48,222 cf
30.0" Round Culvert n=0.013 L=24.6' S=0.0049 '/' Outflow=10.44 cfs 48,222 cf**Pond D10: DMH #10**Peak Elev=203.80' Inflow=0.59 cfs 1,858 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 '/' Outflow=0.59 cfs 1,858 cf**Pond D11: DMH #11**Peak Elev=205.40' Inflow=3.40 cfs 11,085 cf
15.0" Round Culvert n=0.013 L=44.6' S=0.0049 '/' Outflow=3.40 cfs 11,085 cf**Pond D12: DMH #12**Peak Elev=204.20' Inflow=2.14 cfs 7,199 cf
12.0" Round Culvert n=0.013 L=41.9' S=0.0050 '/' Outflow=2.14 cfs 7,199 cf**Pond D13: DMH #13**Peak Elev=203.22' Inflow=6.15 cfs 22,784 cf
24.0" Round Culvert n=0.013 L=60.1' S=0.0050 '/' Outflow=6.15 cfs 22,784 cf**Pond D14: DMH #14**Peak Elev=205.26' Inflow=3.01 cfs 10,402 cf
15.0" Round Culvert n=0.012 L=246.6' S=0.0050 '/' Outflow=3.01 cfs 10,402 cf**Pond D16: DMH #16**Peak Elev=205.60' Inflow=1.16 cfs 4,141 cf
15.0" Round Culvert n=0.012 L=103.5' S=0.0050 '/' Outflow=1.16 cfs 4,141 cf**Pond D17: DMH #17**Peak Elev=201.49' Inflow=2.54 cfs 8,760 cf
12.0" Round Culvert n=0.013 L=91.6' S=0.0312 '/' Outflow=2.54 cfs 8,760 cf**Pond D18: DMH #18**Peak Elev=198.48' Inflow=3.50 cfs 11,894 cf
15.0" Round Culvert n=0.013 L=46.3' S=0.0099 '/' Outflow=3.50 cfs 11,894 cf**Pond D19: DMH #19**Peak Elev=206.01' Inflow=1.86 cfs 6,129 cf
12.0" Round Culvert n=0.013 L=82.5' S=0.0092 '/' Outflow=1.86 cfs 6,129 cf**Pond D2: DMH#2**Peak Elev=207.51' Inflow=8.93 cfs 42,105 cf
30.0" Round Culvert n=0.013 L=129.9' S=0.0145 '/' Outflow=8.93 cfs 42,105 cf

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Pond D20: DMH #20Peak Elev=205.22' Inflow=1.86 cfs 6,129 cf
12.0" Round Culvert n=0.013 L=63.5' S=0.0049 '/' Outflow=1.86 cfs 6,129 cf**Pond D21: DMH #21**Peak Elev=204.31' Inflow=6.39 cfs 21,436 cf
24.0" Round Culvert n=0.013 L=72.4' S=0.0050 '/' Outflow=6.39 cfs 21,436 cf**Pond D22: DMH #22**Peak Elev=205.68' Inflow=2.33 cfs 8,096 cf
15.0" Round Culvert n=0.013 L=134.2' S=0.0071 '/' Outflow=2.33 cfs 8,096 cf**Pond D23: DMH #23**Peak Elev=207.22' Inflow=1.17 cfs 4,225 cf
15.0" Round Culvert n=0.013 L=173.3' S=0.0100 '/' Outflow=1.17 cfs 4,225 cf**Pond D24: DMH #24**Peak Elev=208.40' Inflow=0.14 cfs 483 cf
12.0" Round Culvert n=0.013 L=140.9' S=0.0077 '/' Outflow=0.14 cfs 483 cf**Pond D25: DMH #25**Peak Elev=209.95' Inflow=6.13 cfs 20,606 cf
18.0" Round Culvert n=0.012 L=78.6' S=0.0051 '/' Outflow=6.13 cfs 20,606 cf**Pond D26: DMH #26**Peak Elev=208.96' Inflow=6.13 cfs 20,606 cf
24.0" Round Culvert n=0.013 L=127.0' S=0.0050 '/' Outflow=6.13 cfs 20,606 cf**Pond D27: DMH #27**Peak Elev=214.25' Inflow=3.34 cfs 11,172 cf
15.0" Round Culvert n=0.012 L=247.1' S=0.0195 '/' Outflow=3.34 cfs 11,172 cf**Pond D28: DMH #28**Peak Elev=217.75' Inflow=1.68 cfs 5,633 cf
15.0" Round Culvert n=0.013 L=189.5' S=0.0196 '/' Outflow=1.68 cfs 5,633 cf**Pond D29: DMH #29**Peak Elev=220.34' Inflow=0.97 cfs 3,364 cf
12.0" Round Culvert n=0.013 L=118.4' S=0.0193 '/' Outflow=0.97 cfs 3,364 cf**Pond D3: DMH#3**Peak Elev=212.03' Inflow=6.65 cfs 31,862 cf
24.0" Round Culvert n=0.012 L=282.0' S=0.0146 '/' Outflow=6.65 cfs 31,862 cf**Pond D30: DMH #30**Peak Elev=221.28' Inflow=0.38 cfs 1,369 cf
12.0" Round Culvert n=0.013 L=184.2' S=0.0050 '/' Outflow=0.38 cfs 1,369 cf**Pond D31: DMH#31**Peak Elev=224.80' Inflow=2.84 cfs 11,240 cf
15.0" Round Culvert n=0.012 L=158.7' S=0.0598 '/' Outflow=2.84 cfs 11,240 cf**Pond D32: DMH#32**Peak Elev=215.32' Inflow=3.33 cfs 13,198 cf
15.0" Round Culvert n=0.012 L=122.0' S=0.0050 '/' Outflow=3.33 cfs 13,198 cf**Pond D33: DMH #33**Peak Elev=208.27' Inflow=7.12 cfs 23,904 cf
24.0" Round Culvert n=0.013 L=39.0' S=0.0051 '/' Outflow=7.12 cfs 23,904 cf**Pond D34: DMH #34**Peak Elev=197.98' Inflow=3.70 cfs 13,147 cf
15.0" Round Culvert n=0.012 L=51.0' S=0.0049 '/' Outflow=3.70 cfs 13,147 cf**Pond D4: DMH#4**Peak Elev=213.68' Inflow=5.38 cfs 23,510 cf
24.0" Round Culvert n=0.012 L=131.1' S=0.0125 '/' Outflow=5.38 cfs 23,510 cf

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Pond D5: DMH #5Peak Elev=210.18' Inflow=3.79 cfs 12,742 cf
18.0" Round Culvert n=0.013 L=183.0' S=0.0050 '/' Outflow=3.79 cfs 12,742 cf**Pond D6: DMH #6**Peak Elev=209.11' Inflow=3.79 cfs 12,742 cf
18.0" Round Culvert n=0.013 L=299.7' S=0.0050 '/' Outflow=3.79 cfs 12,742 cf**Pond D7: DMH #7**Peak Elev=207.13' Inflow=5.45 cfs 18,143 cf
24.0" Round Culvert n=0.013 L=101.8' S=0.0050 '/' Outflow=5.45 cfs 18,143 cf**Pond D8: DMH #8**Peak Elev=201.44' Inflow=1.66 cfs 5,527 cf
12.0" Round Culvert n=0.013 L=87.7' S=0.0050 '/' Outflow=1.66 cfs 5,527 cf**Pond D9: DMH #9**Peak Elev=200.89' Inflow=1.66 cfs 5,527 cf
12.0" Round Culvert n=0.013 L=11.9' S=0.0050 '/' Outflow=1.66 cfs 5,527 cf**Pond DE1: DRIP #1**Peak Elev=223.91' Storage=248 cf Inflow=0.29 cfs 974 cf
Discarded=0.00 cfs 92 cf Primary=0.27 cfs 683 cf Outflow=0.27 cfs 775 cf**Pond DE10: DRIP #10**Peak Elev=213.88' Storage=220 cf Inflow=0.26 cfs 888 cf
Discarded=0.00 cfs 85 cf Primary=0.24 cfs 625 cf Outflow=0.24 cfs 709 cf**Pond DE11: DRIP #11**Peak Elev=212.91' Storage=248 cf Inflow=0.29 cfs 1,000 cf
Discarded=0.00 cfs 94 cf Primary=0.27 cfs 707 cf Outflow=0.27 cfs 801 cf**Pond DE12: DRIP #12**Peak Elev=212.15' Storage=218 cf Inflow=0.34 cfs 1,168 cf
Discarded=0.00 cfs 109 cf Primary=0.31 cfs 904 cf Outflow=0.31 cfs 1,012 cf**Pond DE13: DRIP #13**Peak Elev=212.04' Storage=314 cf Inflow=0.44 cfs 1,533 cf
Discarded=0.00 cfs 116 cf Primary=0.40 cfs 1,181 cf Outflow=0.40 cfs 1,296 cf**Pond DE14: DRIP #14**Peak Elev=210.28' Storage=220 cf Inflow=0.26 cfs 888 cf
Discarded=0.00 cfs 85 cf Primary=0.24 cfs 625 cf Outflow=0.24 cfs 709 cf**Pond DE15: DRIP #15**Peak Elev=209.63' Storage=213 cf Inflow=0.20 cfs 683 cf
Discarded=0.00 cfs 81 cf Primary=0.19 cfs 424 cf Outflow=0.19 cfs 505 cf**Pond DE16: DRIP #16**Peak Elev=209.18' Storage=220 cf Inflow=0.26 cfs 888 cf
Discarded=0.00 cfs 85 cf Primary=0.24 cfs 625 cf Outflow=0.24 cfs 709 cf**Pond DE17: DRIP #17**Peak Elev=204.92' Storage=195 cf Inflow=0.19 cfs 627 cf
Discarded=0.00 cfs 69 cf Primary=0.17 cfs 394 cf Outflow=0.17 cfs 463 cf**Pond DE18: DRIP #18**Peak Elev=206.69' Storage=246 cf Inflow=0.27 cfs 900 cf
Discarded=0.00 cfs 86 cf Primary=0.25 cfs 615 cf Outflow=0.25 cfs 701 cf**Pond DE19: DRIP #19**Peak Elev=207.47' Storage=218 cf Inflow=0.24 cfs 799 cf
Discarded=0.00 cfs 77 cf Primary=0.23 cfs 544 cf Outflow=0.23 cfs 621 cf**Pond DE2: DRIP #2**Peak Elev=223.32' Storage=178 cf Inflow=0.19 cfs 648 cf
Discarded=0.00 cfs 78 cf Primary=0.18 cfs 427 cf Outflow=0.18 cfs 505 cf**Pond DE20: DRIP #20**Peak Elev=208.10' Storage=210 cf Inflow=0.19 cfs 614 cf
Discarded=0.00 cfs 74 cf Primary=0.16 cfs 362 cf Outflow=0.16 cfs 436 cf

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Pond DE21: DRIP #21Peak Elev=208.53' Storage=197 cf Inflow=0.19 cfs 644 cf
Discarded=0.00 cfs 71 cf Primary=0.18 cfs 409 cf Outflow=0.18 cfs 480 cf**Pond DE22: DRIP #22**Peak Elev=209.45' Storage=292 cf Inflow=0.34 cfs 1,168 cf
Discarded=0.00 cfs 109 cf Primary=0.31 cfs 829 cf Outflow=0.31 cfs 938 cf**Pond DE23: DRIP #23**Peak Elev=209.86' Storage=203 cf Inflow=0.25 cfs 851 cf
Discarded=0.00 cfs 79 cf Primary=0.23 cfs 605 cf Outflow=0.24 cfs 684 cf**Pond DE24: DRIP #24**Peak Elev=211.01' Storage=313 cf Inflow=0.29 cfs 1,000 cf
Discarded=0.00 cfs 94 cf Primary=0.27 cfs 642 cf Outflow=0.27 cfs 736 cf**Pond DE25: DRIP #25**Peak Elev=211.21' Storage=248 cf Inflow=0.29 cfs 1,000 cf
Discarded=0.00 cfs 94 cf Primary=0.27 cfs 707 cf Outflow=0.27 cfs 801 cf**Pond DE26: DRIP #26**Peak Elev=211.88' Storage=204 cf Inflow=0.25 cfs 851 cf
Discarded=0.00 cfs 79 cf Primary=0.23 cfs 605 cf Outflow=0.23 cfs 684 cf**Pond DE27: DRIP #27**Peak Elev=212.48' Storage=104 cf Inflow=0.26 cfs 888 cf
Discarded=0.00 cfs 85 cf Primary=0.24 cfs 741 cf Outflow=0.24 cfs 825 cf**Pond DE28: DRIP #28**Peak Elev=213.38' Storage=220 cf Inflow=0.26 cfs 888 cf
Discarded=0.00 cfs 85 cf Primary=0.24 cfs 625 cf Outflow=0.24 cfs 709 cf**Pond DE29: DRIP #29**Peak Elev=213.38' Storage=139 cf Inflow=0.25 cfs 851 cf
Discarded=0.00 cfs 79 cf Primary=0.23 cfs 670 cf Outflow=0.23 cfs 749 cf**Pond DE3: DRIP #3**Peak Elev=222.67' Storage=204 cf Inflow=0.24 cfs 829 cf
Discarded=0.00 cfs 77 cf Primary=0.23 cfs 585 cf Outflow=0.23 cfs 663 cf**Pond DE30: DRIP #30**Peak Elev=213.66' Storage=190 cf Inflow=0.29 cfs 1,000 cf
Discarded=0.00 cfs 94 cf Primary=0.27 cfs 765 cf Outflow=0.27 cfs 859 cf**Pond DE31: DRIP #31**Peak Elev=213.91' Storage=248 cf Inflow=0.29 cfs 1,000 cf
Discarded=0.00 cfs 94 cf Primary=0.27 cfs 707 cf Outflow=0.27 cfs 801 cf**Pond DE32: DRIP #32**Peak Elev=213.28' Storage=204 cf Inflow=0.25 cfs 851 cf
Discarded=0.00 cfs 79 cf Primary=0.23 cfs 605 cf Outflow=0.23 cfs 684 cf**Pond DE33: DRIP #33**Peak Elev=212.43' Storage=213 cf Inflow=0.20 cfs 683 cf
Discarded=0.00 cfs 81 cf Primary=0.19 cfs 424 cf Outflow=0.19 cfs 505 cf**Pond DE34: DRIP #34**Peak Elev=212.33' Storage=313 cf Inflow=0.43 cfs 1,495 cf
Discarded=0.00 cfs 113 cf Primary=0.40 cfs 1,145 cf Outflow=0.40 cfs 1,258 cf**Pond DE35: DRIP #35**Peak Elev=211.03' Storage=313 cf Inflow=0.43 cfs 1,495 cf
Discarded=0.00 cfs 113 cf Primary=0.40 cfs 1,145 cf Outflow=0.40 cfs 1,258 cf**Pond DE36: DRIP #36**Peak Elev=208.45' Storage=218 cf Inflow=0.34 cfs 1,168 cf
Discarded=0.00 cfs 109 cf Primary=0.31 cfs 904 cf Outflow=0.31 cfs 1,012 cf

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Pond DE37: DRIP #37Peak Elev=209.45' Storage=217 cf Inflow=0.33 cfs 1,138 cf
Discarded=0.00 cfs 106 cf Primary=0.31 cfs 876 cf Outflow=0.31 cfs 983 cf**Pond DE38: DRIP #39**Peak Elev=210.91' Storage=248 cf Inflow=0.29 cfs 974 cf
Discarded=0.00 cfs 92 cf Primary=0.27 cfs 683 cf Outflow=0.27 cfs 775 cf**Pond DE39: DRIP #39**Peak Elev=211.87' Storage=204 cf Inflow=0.24 cfs 829 cf
Discarded=0.00 cfs 77 cf Primary=0.23 cfs 585 cf Outflow=0.23 cfs 663 cf**Pond DE4: DRIP #4**Peak Elev=220.91' Storage=248 cf Inflow=0.29 cfs 974 cf
Discarded=0.00 cfs 92 cf Primary=0.27 cfs 683 cf Outflow=0.27 cfs 775 cf**Pond DE40: DRIP #40**Peak Elev=212.91' Storage=248 cf Inflow=0.29 cfs 974 cf
Discarded=0.00 cfs 92 cf Primary=0.27 cfs 683 cf Outflow=0.27 cfs 775 cf**Pond DE41: DRIP #41**Peak Elev=213.91' Storage=248 cf Inflow=0.29 cfs 974 cf
Discarded=0.00 cfs 92 cf Primary=0.27 cfs 683 cf Outflow=0.27 cfs 775 cf**Pond DE42: DRIP #42**Peak Elev=214.83' Storage=197 cf Inflow=0.20 cfs 679 cf
Discarded=0.00 cfs 74 cf Primary=0.19 cfs 442 cf Outflow=0.19 cfs 515 cf**Pond DE43: DRIP #43**Peak Elev=215.83' Storage=197 cf Inflow=0.20 cfs 679 cf
Discarded=0.00 cfs 74 cf Primary=0.19 cfs 442 cf Outflow=0.19 cfs 515 cf**Pond DE44: DRIP #44**Peak Elev=217.83' Storage=197 cf Inflow=0.20 cfs 679 cf
Discarded=0.00 cfs 74 cf Primary=0.19 cfs 442 cf Outflow=0.19 cfs 515 cf**Pond DE45: DRIP #45**Peak Elev=218.87' Storage=204 cf Inflow=0.24 cfs 829 cf
Discarded=0.00 cfs 77 cf Primary=0.23 cfs 585 cf Outflow=0.23 cfs 663 cf**Pond DE47: DRIP #47**Peak Elev=218.45' Storage=217 cf Inflow=0.33 cfs 1,138 cf
Discarded=0.00 cfs 106 cf Primary=0.31 cfs 876 cf Outflow=0.31 cfs 983 cf**Pond DE48: DRIP #48**Peak Elev=216.82' Storage=212 cf Inflow=0.19 cfs 648 cf
Discarded=0.00 cfs 78 cf Primary=0.17 cfs 393 cf Outflow=0.18 cfs 470 cf**Pond DE49: DRIP #49**Peak Elev=214.83' Storage=197 cf Inflow=0.20 cfs 679 cf
Discarded=0.00 cfs 74 cf Primary=0.19 cfs 442 cf Outflow=0.19 cfs 515 cf**Pond DE5: DRIP #5**Peak Elev=220.47' Storage=204 cf Inflow=0.24 cfs 829 cf
Discarded=0.00 cfs 77 cf Primary=0.23 cfs 585 cf Outflow=0.23 cfs 663 cf**Pond DE61: DRIP #61**Peak Elev=213.37' Storage=314 cf Inflow=0.62 cfs 2,107 cf
Discarded=0.00 cfs 190 cf Primary=0.49 cfs 1,769 cf Outflow=0.49 cfs 1,959 cf**Pond DE62: DRIP #62**Peak Elev=213.37' Storage=314 cf Inflow=0.62 cfs 2,107 cf
Discarded=0.00 cfs 190 cf Primary=0.49 cfs 1,769 cf Outflow=0.49 cfs 1,959 cf**Pond DE63: DRIP #63**Peak Elev=207.97' Storage=158 cf Inflow=0.36 cfs 1,248 cf
Discarded=0.00 cfs 118 cf Primary=0.33 cfs 1,043 cf Outflow=0.33 cfs 1,160 cf**Pond DE64: DRIP #64**Peak Elev=206.04' Storage=197 cf Inflow=0.45 cfs 1,553 cf
Discarded=0.00 cfs 137 cf Primary=0.40 cfs 1,313 cf Outflow=0.40 cfs 1,451 cf

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Pond DE65: DRIP #65 Peak Elev=206.97' Storage=158 cf Inflow=0.36 cfs 1,248 cf
Discarded=0.00 cfs 118 cf Primary=0.33 cfs 1,043 cf Outflow=0.33 cfs 1,160 cf

Pond DE66: DRIP #66 Peak Elev=208.84' Storage=197 cf Inflow=0.45 cfs 1,553 cf
Discarded=0.00 cfs 137 cf Primary=0.40 cfs 1,313 cf Outflow=0.40 cfs 1,451 cf

Pond DE67: DRIP #67 Peak Elev=209.04' Storage=197 cf Inflow=0.45 cfs 1,553 cf
Discarded=0.00 cfs 137 cf Primary=0.40 cfs 1,313 cf Outflow=0.40 cfs 1,451 cf

Pond DE68: DRIP #68 Peak Elev=208.06' Storage=285 cf Inflow=0.63 cfs 2,162 cf
Discarded=0.00 cfs 194 cf Primary=0.53 cfs 1,823 cf Outflow=0.53 cfs 2,017 cf

Pond DE69: DRIP #69 Peak Elev=206.54' Storage=197 cf Inflow=0.45 cfs 1,553 cf
Discarded=0.00 cfs 137 cf Primary=0.40 cfs 1,313 cf Outflow=0.40 cfs 1,451 cf

Pond DE7: DRIP #7 Peak Elev=212.38' Storage=220 cf Inflow=0.26 cfs 888 cf
Discarded=0.00 cfs 85 cf Primary=0.24 cfs 625 cf Outflow=0.24 cfs 709 cf

Pond DE70: DRIP #70 Peak Elev=206.94' Storage=197 cf Inflow=0.45 cfs 1,553 cf
Discarded=0.00 cfs 137 cf Primary=0.40 cfs 1,313 cf Outflow=0.40 cfs 1,451 cf

Pond DE71: DRIP #71 Peak Elev=207.68' Storage=317 cf Inflow=0.63 cfs 2,162 cf
Discarded=0.00 cfs 194 cf Primary=0.50 cfs 1,820 cf Outflow=0.50 cfs 2,014 cf

Pond DE8: DRIP #8 Peak Elev=213.48' Storage=204 cf Inflow=0.25 cfs 851 cf
Discarded=0.00 cfs 79 cf Primary=0.23 cfs 605 cf Outflow=0.23 cfs 684 cf

Pond DE9: DRIP #9 Peak Elev=213.81' Storage=248 cf Inflow=0.29 cfs 1,000 cf
Discarded=0.00 cfs 94 cf Primary=0.27 cfs 707 cf Outflow=0.27 cfs 801 cf

Pond DECH: DRIP #CH Peak Elev=209.48' Storage=379 cf Inflow=0.66 cfs 2,394 cf
Discarded=0.04 cfs 1,488 cf Primary=0.38 cfs 906 cf Outflow=0.41 cfs 2,394 cf

Pond OCS1: OCS#1 Peak Elev=196.34' Inflow=7.21 cfs 25,041 cf
Outflow=7.21 cfs 25,041 cf

Pond OCS3: OCS#3 Peak Elev=204.80' Inflow=5.31 cfs 18,009 cf
Outflow=5.31 cfs 18,009 cf

Pond OCS4: OCS#4 Peak Elev=204.77' Inflow=1.28 cfs 4,286 cf
Outflow=1.28 cfs 4,286 cf

Pond P204: STORMTECH INFILTRATION Peak Elev=204.77' Storage=8,682 cf Inflow=6.58 cfs 22,296 cf
Discarded=0.09 cfs 5,771 cf Primary=1.85 cfs 14,304 cf Outflow=1.94 cfs 20,075 cf

Pond P205: POCKET WETLAND #2 Peak Elev=201.24' Storage=32,466 cf Inflow=14.11 cfs 63,948 cf
Outflow=1.32 cfs 54,043 cf

Pond P206: STORMTECH INFILTRATION Peak Elev=196.21' Storage=6,618 cf Inflow=7.21 cfs 25,041 cf
Discarded=0.49 cfs 20,072 cf Primary=2.73 cfs 4,966 cf Outflow=3.23 cfs 25,038 cf

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Pond P207: INFILTRATION POND #2 Peak Elev=197.90' Storage=11,707 cf Inflow=10.23 cfs 36,010 cf
Discarded=0.97 cfs 30,816 cf Primary=1.18 cfs 5,181 cf Outflow=2.15 cfs 35,997 cf

Pond P210: POCKET WETLAND #1 Peak Elev=204.55' Storage=19,688 cf Inflow=9.15 cfs 30,639 cf
Outflow=0.86 cfs 14,245 cf

Pond P212: INFILTRATION POND #1 Peak Elev=202.42' Storage=30,405 cf Inflow=20.09 cfs 81,688 cf
Discarded=1.98 cfs 65,248 cf Primary=2.56 cfs 16,419 cf Outflow=4.54 cfs 81,667 cf

Link AP1: ANALYSIS POINT 1 Inflow=1.15 cfs 3,803 cf
Primary=1.15 cfs 3,803 cf

Link AP2: ANALYSIS POINT 2 Inflow=19.34 cfs 168,903 cf
Primary=19.34 cfs 168,903 cf

Link AP3: ANALYSIS POINT 3 Inflow=2.77 cfs 8,786 cf
Primary=2.77 cfs 8,786 cf

Link AP4: ANALYSIS POINT #4 Inflow=24.37 cfs 220,048 cf
Primary=24.37 cfs 220,048 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 581,142 cf Average Runoff Depth = 2.71"
76.27% Pervious = 1,963,068 sf 23.73% Impervious = 610,852 sf

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Summary for Subcatchment B1: MULTIFAMILY BLDG #1

Runoff = 2.73 cfs @ 12.09 hrs, Volume= 9,873 cf, Depth> 4.72"
 Routed to Pond D34 : DMH #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
21,440	98	Roofs, HSG C
3,659	98	Roofs, HSG D
25,099	98	Weighted Average
25,099		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment B2: MULTIFAMILY BLDG #2

Runoff = 1.91 cfs @ 12.09 hrs, Volume= 6,924 cf, Depth> 4.72"
 Routed to Pond OCS3 : OCS#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
7,721	98	Roofs, HSG A
9,881	98	Roofs, HSG C
17,602	98	Weighted Average
17,602		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C1: CB #1

Runoff = 1.16 cfs @ 12.23 hrs, Volume= 4,967 cf, Depth> 2.24"
 Routed to Pond CB1 : CB#1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
8,351	61	>75% Grass cover, Good, HSG B
6,375	98	Paved parking, HSG B
11,862	68	1 acre lots, 20% imp, HSG B
26,588	73	Weighted Average
17,841		67.10% Pervious Area
8,747		32.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
1.4	60	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.1	89	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	214	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
16.1	413	Total			

Summary for Subcatchment C10: CB #10

Runoff = 1.04 cfs @ 12.09 hrs, Volume= 3,707 cf, Depth> 4.60"
 Routed to Pond CB10 : CB #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
352	98	Paved parking, HSG B
517	74	>75% Grass cover, Good, HSG C
7,341	98	Paved parking, HSG C
1,450	98	Paved parking, HSG D
9,660	97	Weighted Average
517		5.35% Pervious Area
9,143		94.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C11: CB #11

Runoff = 1.23 cfs @ 12.09 hrs, Volume= 3,951 cf, Depth> 3.43"
 Routed to Pond CB11 : CB #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
6,773	74	>75% Grass cover, Good, HSG C
7,061	98	Paved parking, HSG C
13,834	86	Weighted Average
6,773		48.96% Pervious Area
7,061		51.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C12: CB #12

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 2,662 cf, Depth> 3.33"
 Routed to Pond CB12 : CB #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
5,034	74	>75% Grass cover, Good, HSG C
4,562	98	Paved parking, HSG C
9,596	85	Weighted Average
5,034		52.46% Pervious Area
4,562		47.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C13: CB #13

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 2,739 cf, Depth> 3.83"
 Routed to Pond CB13 : CB #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,771	74	>75% Grass cover, Good, HSG C
5,801	98	Paved parking, HSG C
8,572	90	Weighted Average
2,771		32.33% Pervious Area
5,801		67.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C14: CB #14

Runoff = 1.13 cfs @ 12.09 hrs, Volume= 3,602 cf, Depth> 3.33"
 Routed to Pond CB14 : CB #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,696	39	>75% Grass cover, Good, HSG A
8,015	98	Paved parking, HSG A
473	74	>75% Grass cover, Good, HSG C
1,802	98	Paved parking, HSG C
12,986	85	Weighted Average
3,169		24.40% Pervious Area
9,817		75.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C15: CB #15

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 1,926 cf, Depth> 4.72"
 Routed to Pond CB15 : CB #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
4,739	98	Paved parking, HSG A
156	98	Paved parking, HSG C
4,895	98	Weighted Average
4,895		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C16: CB #16

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 1,858 cf, Depth> 2.76"
 Routed to Pond CB16 : CB #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
2,405	39	>75% Grass cover, Good, HSG A
4,302	98	Paved parking, HSG A
454	74	>75% Grass cover, Good, HSG C
902	98	Paved parking, HSG C
8,063	79	Weighted Average
2,859		35.46% Pervious Area
5,204		64.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C17: CB #17

Runoff = 1.22 cfs @ 12.09 hrs, Volume= 4,102 cf, Depth> 4.16"
 Routed to Pond CB17 : CB #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,620	74	>75% Grass cover, Good, HSG C
9,225	98	Paved parking, HSG C
11,845	93	Weighted Average
2,620		22.12% Pervious Area
9,225		77.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C18: CB #18

Runoff = 1.85 cfs @ 12.09 hrs, Volume= 6,077 cf, Depth> 3.83"
 Routed to Pond CB18 : CB #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
6,388	74	>75% Grass cover, Good, HSG C
12,388	98	Paved parking, HSG C
240	98	Roofs, HSG C
19,016	90	Weighted Average
6,388		33.59% Pervious Area
12,628		66.41% Impervious Area

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Type III 24-hr 10YR Rainfall=4.96"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C2: CB #2

Runoff = 1.87 cfs @ 12.09 hrs, Volume= 6,116 cf, Depth> 3.83"
 Routed to Pond CB2 : CB#2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,249	61	>75% Grass cover, Good, HSG B
7,607	98	Paved parking, HSG B
2,714	74	>75% Grass cover, Good, HSG C
6,568	98	Paved parking, HSG C
19,138	90	Weighted Average
4,963		25.93% Pervious Area
14,175		74.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C20: CB #20

Runoff = 1.20 cfs @ 12.09 hrs, Volume= 4,050 cf, Depth> 4.16"
 Routed to Pond CB20 : CB #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,366	98	Paved parking, HSG A
2,399	74	>75% Grass cover, Good, HSG C
7,929	98	Paved parking, HSG C
11,694	93	Weighted Average
2,399		20.51% Pervious Area
9,295		79.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment C21: CB #21

Runoff = 0.94 cfs @ 12.09 hrs, Volume= 3,149 cf, Depth> 4.16"
 Routed to Pond CB21 : CB #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
769	39	>75% Grass cover, Good, HSG A
7,590	98	Paved parking, HSG A
734	98	Paved parking, HSG C
9,093	93	Weighted Average
769		8.46% Pervious Area
8,324		91.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C22: CB #22

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 3,419 cf, Depth> 4.49"
 Routed to Pond CB22 : CB #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
280	74	>75% Grass cover, Good, HSG C
2,641	98	Paved parking, HSG C
810	80	>75% Grass cover, Good, HSG D
5,408	98	Paved parking, HSG D
9,139	96	Weighted Average
1,090		11.93% Pervious Area
8,049		88.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C23: CB #23

Runoff = 0.87 cfs @ 12.09 hrs, Volume= 2,841 cf, Depth> 3.73"
 Routed to Pond CB23 : CB #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
272	39	>75% Grass cover, Good, HSG A
2,987	98	Paved parking, HSG A
1,099	74	>75% Grass cover, Good, HSG C
55	98	Paved parking, HSG C
2,042	80	>75% Grass cover, Good, HSG D
2,684	98	Paved parking, HSG D
9,139	89	Weighted Average
3,413		37.35% Pervious Area
5,726		62.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C24: CB #24

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 760 cf, Depth> 4.72"
 Routed to Pond CB24 : CB #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,933	98	Paved parking, HSG D
1,933		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C25: CB #25

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 3,381 cf, Depth> 4.60"
 Routed to Pond CB25 : CB #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
15	74	>75% Grass cover, Good, HSG C
299	98	Paved parking, HSG C
335	80	>75% Grass cover, Good, HSG D
8,162	98	Paved parking, HSG D
8,811	97	Weighted Average
350		3.97% Pervious Area
8,461		96.03% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C26: CB #26

Runoff = 1.47 cfs @ 12.09 hrs, Volume= 4,901 cf, Depth> 4.05"
 Routed to Pond CB26 : CB #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
5,135	80	>75% Grass cover, Good, HSG D
9,397	98	Paved parking, HSG D
14,532	92	Weighted Average
5,135		35.34% Pervious Area
9,397		64.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C27: CB #27

Runoff = 1.07 cfs @ 12.09 hrs, Volume= 3,858 cf, Depth> 4.72"
 Routed to Pond CB27 : CB #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
763	98	Paved parking, HSG A
9,045	98	Paved parking, HSG D
9,808	98	Weighted Average
9,808		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C28: CB #28

Runoff = 0.97 cfs @ 12.09 hrs, Volume= 3,135 cf, Depth> 3.63"
 Routed to Pond CB28 : CB #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
2,749	74	>75% Grass cover, Good, HSG C
2,841	98	Paved parking, HSG C
2,296	80	>75% Grass cover, Good, HSG D
2,482	98	Paved parking, HSG D
10,368	88	Weighted Average
5,045		48.66% Pervious Area
5,323		51.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C29: CB #29

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,354 cf, Depth> 4.16"
 Routed to Pond CB29 : CB #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,549	74	>75% Grass cover, Good, HSG C
5,249	98	Paved parking, HSG C
6,798	93	Weighted Average
1,549		22.79% Pervious Area
5,249		77.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C3: CB #3

Runoff = 1.63 cfs @ 12.09 hrs, Volume= 5,277 cf, Depth> 3.63"
 Routed to Pond CB3 : CB#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
4,878	61	>75% Grass cover, Good, HSG B
12,576	98	Paved parking, HSG B
17,454	88	Weighted Average
4,878		27.95% Pervious Area
12,576		72.05% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C30: CB #30

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 3,775 cf, Depth> 3.73"
 Routed to Pond CB30 : CB #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
4,380	74	>75% Grass cover, Good, HSG C
7,761	98	Paved parking, HSG C
12,141	89	Weighted Average
4,380		36.08% Pervious Area
7,761		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C31: CB #31

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 3,854 cf, Depth> 3.94"
 Routed to Pond CB31 : CB #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,369	74	>75% Grass cover, Good, HSG C
8,367	98	Paved parking, HSG C
11,736	91	Weighted Average
3,369		28.71% Pervious Area
8,367		71.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C32: CB #32

Runoff = 1.03 cfs @ 12.09 hrs, Volume= 3,358 cf, Depth> 3.73"
 Routed to Pond CB32 : CB #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
4,013	74	>75% Grass cover, Good, HSG C
6,788	98	Paved parking, HSG C
10,801	89	Weighted Average
4,013		37.15% Pervious Area
6,788		62.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C33: CB #33

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,563 cf, Depth> 4.16"
 Routed to Pond CB33 : CB #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
995	74	>75% Grass cover, Good, HSG C
3,519	98	Paved parking, HSG C
4,514	93	Weighted Average
995		22.04% Pervious Area
3,519		77.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C34: CB #34

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,307 cf, Depth> 3.94"
 Routed to Pond CB34 : CB #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,924	74	>75% Grass cover, Good, HSG C
5,103	98	Paved parking, HSG C
7,027	91	Weighted Average
1,924		27.38% Pervious Area
5,103		72.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C35: CB #35

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 1,137 cf, Depth> 4.72"
 Routed to Pond CB35 : CB #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,891	98	Paved parking, HSG C
2,891		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C36: CB #36

Runoff = 0.72 cfs @ 12.09 hrs, Volume= 2,605 cf, Depth> 4.72"
 Routed to Pond CB36 : CB #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
6,622	98	Paved parking, HSG C
6,622		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C37: CB #37

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 483 cf, Depth> 4.60"
 Routed to Pond CB37 : CB #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
687	98	Paved parking, HSG C
79	80	>75% Grass cover, Good, HSG D
492	98	Paved parking, HSG D
1,258	97	Weighted Average
79		6.28% Pervious Area
1,179		93.72% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C38: CB #38

Runoff = 1.94 cfs @ 12.09 hrs, Volume= 6,376 cf, Depth> 3.83"
 Routed to Pond CB38 : CB #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
4,460	61	>75% Grass cover, Good, HSG B
14,500	98	Paved parking, HSG B
38	74	>75% Grass cover, Good, HSG C
355	98	Paved parking, HSG C
81	80	>75% Grass cover, Good, HSG D
517	98	Paved parking, HSG D
19,951	90	Weighted Average
4,579		22.95% Pervious Area
15,372		77.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C39: CB #39

Runoff = 0.85 cfs @ 12.09 hrs, Volume= 3,058 cf, Depth> 4.72"
 Routed to Pond CB39 : CB #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
9	61	>75% Grass cover, Good, HSG B
6,543	98	Paved parking, HSG B
45	74	>75% Grass cover, Good, HSG C
517	98	Paved parking, HSG C
67	80	>75% Grass cover, Good, HSG D
592	98	Paved parking, HSG D
7,773	98	Weighted Average
121		1.56% Pervious Area
7,652		98.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C4: CB #4

Runoff = 1.46 cfs @ 12.31 hrs, Volume= 7,062 cf, Depth> 1.92"
 Routed to Pond CB4 : CB#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
7,248	61	>75% Grass cover, Good, HSG B
3,633	98	Paved parking, HSG B
33,287	68	1 acre lots, 20% imp, HSG B
44,168	69	Weighted Average
33,878		76.70% Pervious Area
10,290		23.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
7.4	316	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.4	109	0.0360	1.33		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	70	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
21.4	545	Total			

Summary for Subcatchment C40: CB #40

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 1,792 cf, Depth> 4.72"
 Routed to Pond CB40 : CB #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
4,556	98	Paved parking, HSG B
4,556		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C41: CB #41

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 3,747 cf, Depth> 3.53"
 Routed to Pond CB41 : CB #41

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,917	61	>75% Grass cover, Good, HSG B
8,833	98	Paved parking, HSG B
12,750	87	Weighted Average
3,917		30.72% Pervious Area
8,833		69.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C42: CB #42

Runoff = 0.72 cfs @ 12.09 hrs, Volume= 2,269 cf, Depth> 2.41"
 Routed to Pond CB42 : CB #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
7,160	61	>75% Grass cover, Good, HSG B
4,117	98	Paved parking, HSG B
11,277	75	Weighted Average
7,160		63.49% Pervious Area
4,117		36.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C43: CB #43

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 1,341 cf, Depth> 3.94"
 Routed to Pond CB43 : CB #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
751	61	>75% Grass cover, Good, HSG B
3,333	98	Paved parking, HSG B
4,084	91	Weighted Average
751		18.39% Pervious Area
3,333		81.61% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C44: CB #44

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 654 cf, Depth> 4.72"
 Routed to Pond CB44 : CB #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,662	98	Paved parking, HSG B
1,662		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C45: CB #45

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 830 cf, Depth> 4.72"
 Routed to Pond CB45 : CB #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,109	98	Paved parking, HSG B
2,109		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C46: CB #46

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 539 cf, Depth> 4.72"
 Routed to Pond CB46 : CB #46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,371	98	Paved parking, HSG B
1,371		100.00% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C47: CB#47

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,204 cf, Depth> 4.72"
 Routed to Pond CB47 : CB#47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,060	98	Paved parking, HSG B
3,060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C48: CB#48

Runoff = 2.61 cfs @ 12.17 hrs, Volume= 10,036 cf, Depth> 2.00"
 Routed to Pond CB48 : CB#48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
4,469	98	Paved parking, HSG B
55,697	68	1 acre lots, 20% imp, HSG B
60,166	70	Weighted Average
44,558		74.06% Pervious Area
15,608		25.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
4.8	350	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.8	400	Total			

Summary for Subcatchment C49: CB#49

Runoff = 0.32 cfs @ 12.10 hrs, Volume= 1,024 cf, Depth> 2.08"
 Routed to Pond CB49 : CB#49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
4,236	61	>75% Grass cover, Good, HSG B
1,659	98	Paved parking, HSG B
5,895	71	Weighted Average
4,236		71.86% Pervious Area
1,659		28.14% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C5: CB #5

Runoff = 0.16 cfs @ 12.09 hrs, Volume= 573 cf, Depth> 4.72"
 Routed to Pond CB5 : CB#5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,337	98	Paved parking, HSG B
119	98	Paved parking, HSG D
1,456	98	Weighted Average
1,456		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C50: CB#50

Runoff = 0.29 cfs @ 12.10 hrs, Volume= 934 cf, Depth> 2.16"
 Routed to Pond CB50 : CB#50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,639	61	>75% Grass cover, Good, HSG B
813	55	Woods, Good, HSG B
1,723	98	Paved parking, HSG B
5,175	72	Weighted Average
3,452		66.71% Pervious Area
1,723		33.29% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C51: CB #51

Runoff = 0.99 cfs @ 12.09 hrs, Volume= 3,298 cf, Depth> 4.05"
 Routed to Pond CB51 : CB #51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,525	61	>75% Grass cover, Good, HSG B
8,254	98	Paved parking, HSG B
9,779	92	Weighted Average
1,525		15.59% Pervious Area
8,254		84.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C6: CB #6

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 716 cf, Depth> 4.72"
 Routed to Pond CB6 : CB#6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,821	98	Paved parking, HSG B
1,821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C7: CB #7

Runoff = 0.94 cfs @ 12.09 hrs, Volume= 2,968 cf, Depth> 2.76"
 Routed to Pond CB7 : CB#7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
6,625	61	>75% Grass cover, Good, HSG B
6,258	98	Paved parking, HSG B
12,883	79	Weighted Average
6,625		51.42% Pervious Area
6,258		48.58% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C8: CB #8

Runoff = 1.63 cfs @ 12.26 hrs, Volume= 7,344 cf, Depth> 2.00"
 Routed to Pond CB8 : CB#8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
8,724	61	>75% Grass cover, Good, HSG B
4,940	98	Paved parking, HSG B
30,434	68	1 acre lots, 20% imp, HSG B
44,098	70	Weighted Average
33,071		74.99% Pervious Area
11,027		25.01% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
5.1	304	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	91	0.0430	3.34		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.4	75	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
18.2	520	Total			

Summary for Subcatchment C9: CB #9

Runoff = 1.51 cfs @ 12.09 hrs, Volume= 5,084 cf, Depth> 4.16"
 Routed to Pond CB9 : CB #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
54	98	Paved parking, HSG B
3,264	74	>75% Grass cover, Good, HSG C
10,424	98	Paved parking, HSG C
939	98	Paved parking, HSG D
14,681	93	Weighted Average
3,264		22.23% Pervious Area
11,417		77.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment CH1: CLUBHOUSE

Runoff = 0.66 cfs @ 12.09 hrs, Volume= 2,394 cf, Depth> 4.72"
 Routed to Pond DECH : DRIP #CH

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
6,087	98	Roofs, HSG C
6,087		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H1: SF #1

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 974 cf, Depth> 4.27"
 Routed to Pond DE1 : DRIP #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H10: SF #10

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 888 cf, Depth> 4.38"
 Routed to Pond DE10 : DRIP #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H11: SF #11

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf, Depth> 4.38"
 Routed to Pond DE11 : DRIP #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H12: SF #12

Runoff = 0.34 cfs @ 12.09 hrs, Volume= 1,168 cf, Depth> 4.38"
 Routed to Pond DE12 : DRIP #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H13: SF #13

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,533 cf, Depth> 4.49"
 Routed to Pond DE13 : DRIP #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,715	98	Roofs, HSG C
383	74	>75% Grass cover, Good, HSG C
4,098	96	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H14: SF #14

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 888 cf, Depth> 4.38"
 Routed to Pond DE14 : DRIP #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment H15: SF #15

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 683 cf, Depth> 4.27"
 Routed to Pond DE15 : DRIP #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H16: SF #16

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 888 cf, Depth> 4.38"
 Routed to Pond DE16 : DRIP #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H17: SF #17

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 627 cf, Depth> 3.83"
 Routed to Pond DE17 : DRIP #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG A
267	39	>75% Grass cover, Good, HSG A
1,961	90	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H18: SF #18

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 900 cf, Depth> 3.94"
 Routed to Pond DE18 : DRIP #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG A
323	39	>75% Grass cover, Good, HSG A
2,741	91	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H19: SF #19

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 799 cf, Depth> 3.94"
 Routed to Pond DE19 : DRIP #19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,144	98	Roofs, HSG A
290	39	>75% Grass cover, Good, HSG A
2,434	91	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H2: SF #2

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 648 cf, Depth> 4.05"
 Routed to Pond DE2 : DRIP #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H20: SF #20

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 614 cf, Depth> 3.83"
 Routed to Pond DE20 : DRIP #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,085	98	Roofs, HSG A
214	39	>75% Grass cover, Good, HSG A
546	98	Roofs, HSG C
76	74	>75% Grass cover, Good, HSG C
1,921	90	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H21: SF #21

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 644 cf, Depth> 3.94"
 Routed to Pond DE21 : DRIP #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
793	98	Roofs, HSG A
190	39	>75% Grass cover, Good, HSG A
900	98	Roofs, HSG C
78	74	>75% Grass cover, Good, HSG C
1,961	91	Weighted Average
268		13.67% Pervious Area
1,693		86.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H22: SF #22

Runoff = 0.34 cfs @ 12.09 hrs, Volume= 1,168 cf, Depth> 4.38"
 Routed to Pond DE22 : DRIP #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H23: SF #23

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 851 cf, Depth> 4.38"
 Routed to Pond DE23 : DRIP #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H24: SF #24

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf, Depth> 4.38"
 Routed to Pond DE24 : DRIP #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H25: SF #25

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf, Depth> 4.38"
 Routed to Pond DE25 : DRIP #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H26: SF #26

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 851 cf, Depth> 4.38"
 Routed to Pond DE26 : DRIP #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H27: SF #27

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 888 cf, Depth> 4.38"
 Routed to Pond DE27 : DRIP #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H28: SF #28

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 888 cf, Depth> 4.38"
 Routed to Pond DE28 : DRIP #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment H29: SF #29

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 851 cf, Depth> 4.38"
 Routed to Pond DE29 : DRIP #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H3: SF #3

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 829 cf, Depth> 4.27"
 Routed to Pond DE3 : DRIP #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H30: SF #30

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf, Depth> 4.38"
 Routed to Pond DE30 : DRIP #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H31: SF #31

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf, Depth> 4.38"
 Routed to Pond DE31 : DRIP #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H32: SF #32

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 851 cf, Depth> 4.38"
 Routed to Pond DE32 : DRIP #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment H33: SF #33

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 683 cf, Depth> 4.27"
 Routed to Pond DE33 : DRIP #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H34: SF #34

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,495 cf, Depth> 4.38"
 Routed to Pond DE34 : DRIP #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H35: SF #35

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,495 cf, Depth> 4.38"
 Routed to Pond DE35 : DRIP #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H36: SF #36

Runoff = 0.34 cfs @ 12.09 hrs, Volume= 1,168 cf, Depth> 4.38"
 Routed to Pond DE36 : DRIP #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
352	98	Roofs, HSG B
135	61	>75% Grass cover, Good, HSG B
2,477	98	Roofs, HSG C
238	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H37: SF #37

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,138 cf, Depth> 4.27"
 Routed to Pond DE37 : DRIP #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H38: SF #38

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 974 cf, Depth> 4.27"
 Routed to Pond DE38 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H39: SF #39

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 829 cf, Depth> 4.27"
 Routed to Pond DE39 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H4: SF #4

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 974 cf, Depth> 4.27"
 Routed to Pond DE4 : DRIP #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H40: SF #40

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 974 cf, Depth> 4.27"
 Routed to Pond DE40 : DRIP #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H41: SF #41

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 974 cf, Depth> 4.27"
 Routed to Pond DE41 : DRIP #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment H42: SF #42

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 679 cf, Depth> 4.16"
 Routed to Pond DE42 : DRIP #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H43: SF #43

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 679 cf, Depth> 4.16"
 Routed to Pond DE43 : DRIP #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H44: SF #44

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 679 cf, Depth> 4.16"
 Routed to Pond DE44 : DRIP #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H45: SF #45

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 829 cf, Depth> 4.27"
 Routed to Pond DE45 : DRIP #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H46: SF #46

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,138 cf, Depth> 4.27"
 Routed to Pond DE47 : DRIP #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment H47: SF #47

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 648 cf, Depth> 4.05"
 Routed to Pond DE48 : DRIP #48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H48: SF #48

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 679 cf, Depth> 4.16"
 Routed to Pond DE49 : DRIP #49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H5: SF #5

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 829 cf, Depth> 4.27"
 Routed to Pond DE5 : DRIP #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H7: SF #7

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 888 cf, Depth> 4.38"
 Routed to Pond DE7 : DRIP #7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H8: SF #8

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 851 cf, Depth> 4.38"
 Routed to Pond DE8 : DRIP #8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H9: SF #9

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf, Depth> 4.38"
 Routed to Pond DE9 : DRIP #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S201: SUMMER STREET ACCESS APRON

Runoff = 1.15 cfs @ 12.09 hrs, Volume= 3,803 cf, Depth> 3.94"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,253	61	>75% Grass cover, Good, HSG B
9,329	98	Paved parking, HSG B
11,582	91	Weighted Average
2,253		19.45% Pervious Area
9,329		80.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S202: EXISTING WETLAND

Runoff = 18.89 cfs @ 12.30 hrs, Volume= 89,300 cf, Depth> 2.67"
 Routed to Reach SC1 : Stream Crossing #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
153,785	61	>75% Grass cover, Good, HSG B
44,442	55	Woods, Good, HSG B
13,947	98	Paved parking, HSG B
5,507	74	>75% Grass cover, Good, HSG C
16,089	70	Woods, Good, HSG C
127	98	Water Surface, 0% imp, HSG C
651	80	>75% Grass cover, Good, HSG D
167,325	98	Water Surface, 0% imp, HSG D
401,873	78	Weighted Average
387,926		96.53% Pervious Area
13,947		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	50	0.0600	0.16		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
1.9	192	0.0600	1.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.8	314	0.0700	1.85		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.6	493	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
21.5	1,049	Total			

Summary for Subcatchment S203: POCKET WETLAND #1

Runoff = 1.57 cfs @ 12.09 hrs, Volume= 4,966 cf, Depth> 2.33"
 Routed to Pond p210 : POCKET WETLAND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
11,579	61	>75% Grass cover, Good, HSG B
1,816	98	Water Surface, 0% imp, HSG B
331	98	Paved parking, HSG B
8,210	74	>75% Grass cover, Good, HSG C
3,638	98	Water Surface, 0% imp, HSG C
25,574	74	Weighted Average
25,243		98.71% Pervious Area
331		1.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment S204: EXISTING WETLANDS

Runoff = 12.83 cfs @ 12.31 hrs, Volume= 61,883 cf, Depth> 2.76"
 Routed to Link ap2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
44,109	61	>75% Grass cover, Good, HSG B
8,675	55	Woods, Good, HSG B
280	98	Paved parking, HSG B
48,392	74	>75% Grass cover, Good, HSG C
65,808	70	Woods, Good, HSG C
4,065	80	>75% Grass cover, Good, HSG D
2,743	77	Woods, Good, HSG D
95,456	98	Water Surface, 0% imp, HSG D
269,528	79	Weighted Average
269,248		99.90% Pervious Area
280		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.2000	0.26		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
19.4	582	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.6	632	Total			

Summary for Subcatchment S205: ISOLATED WETLAND

Runoff = 2.77 cfs @ 12.10 hrs, Volume= 8,786 cf, Depth> 2.25"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
5,242	39	>75% Grass cover, Good, HSG A
3,607	30	Woods, Good, HSG A
2,667	74	>75% Grass cover, Good, HSG C
1,829	70	Woods, Good, HSG C
6,506	80	>75% Grass cover, Good, HSG D
18,453	77	Woods, Good, HSG D
8,620	98	Water Surface, 0% imp, HSG D
46,924	73	Weighted Average
46,924		100.00% Pervious Area

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Type III 24-hr 10YR Rainfall=4.96"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S206: OVERLAND FLOW

Runoff = 16.62 cfs @ 12.37 hrs, Volume= 87,279 cf, Depth> 1.62"
 Routed to Link AP4 : ANALYSIS POINT #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
57,993	39	>75% Grass cover, Good, HSG A
105,804	30	Woods, Good, HSG A
31,970	30	Brush, Good, HSG A
15,917	61	>75% Grass cover, Good, HSG B
8,415	55	Woods, Good, HSG B
89,799	74	>75% Grass cover, Good, HSG C
91,893	70	Woods, Good, HSG C
10,481	80	>75% Grass cover, Good, HSG D
121,472	77	Woods, Good, HSG D
114,002	98	Water Surface, 0% imp, HSG D
647,746	65	Weighted Average
647,746		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow,
					Woods: Light underbrush n= 0.400 P2= 3.27"
15.1	745	0.0270	0.82		Shallow Concentrated Flow,
					Woodland Kv= 5.0 fps
24.3	795	Total			

Summary for Subcatchment S207: INFILTRATION POND #2

Runoff = 1.83 cfs @ 12.09 hrs, Volume= 5,841 cf, Depth> 3.33"
 Routed to Pond P207 : INFILTRATION POND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
586	39	>75% Grass cover, Good, HSG A
252	98	Water Surface, 0% imp, HSG A
10,402	74	>75% Grass cover, Good, HSG C
9,818	98	Water Surface, 0% imp, HSG C
21,058	85	Weighted Average
21,058		100.00% Pervious Area

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Type III 24-hr 10YR Rainfall=4.96"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S208: GRASS AREA

Runoff = 0.77 cfs @ 12.10 hrs, Volume= 2,464 cf, Depth> 2.16"
 Routed to Pond OCS4 : OCS#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
605	39	>75% Grass cover, Good, HSG A
13,051	74	>75% Grass cover, Good, HSG C
13,656	72	Weighted Average
13,656		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S209: WETLAND C

Runoff = 3.83 cfs @ 12.39 hrs, Volume= 20,247 cf, Depth> 2.24"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
17,105	39	>75% Grass cover, Good, HSG A
10,847	30	Woods, Good, HSG A
15,520	74	>75% Grass cover, Good, HSG C
21,139	70	Woods, Good, HSG C
44,067	98	Water Surface, 0% imp, HSG D
108,678	73	Weighted Average
108,678		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	50	0.0150	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
13.6	500	0.0150	0.61		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
27.3	550	Total			

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Type III 24-hr 10YR Rainfall=4.96"

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Summary for Subcatchment S210: INFILTRATION POND #1

Runoff = 7.22 cfs @ 12.22 hrs, Volume= 30,818 cf, Depth> 3.22"
 Routed to Pond P212 : INFILTRATION POND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
2,476	39	>75% Grass cover, Good, HSG A
1,222	98	Paved parking, HSG A
58,519	74	>75% Grass cover, Good, HSG C
25,420	98	Paved parking, HSG C
27,041	98	Water Surface, 0% imp, HSG C
114,678	84	Weighted Average
88,036		76.77% Pervious Area
26,642		23.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0150	0.13		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
10.3	530	0.0150	0.86		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
16.5	580	Total			

Summary for Subcatchment S211: POCKET WETLAND #2

Runoff = 1.97 cfs @ 12.31 hrs, Volume= 9,400 cf, Depth> 2.49"
 Routed to Pond P205 : POCKET WETLAND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
6,834	61	>75% Grass cover, Good, HSG B
13,286	55	Woods, Good, HSG B
7,418	74	>75% Grass cover, Good, HSG C
255	70	Woods, Good, HSG C
17,484	98	Water Surface, 0% imp, HSG C
45,277	76	Weighted Average
45,277		100.00% Pervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	50	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 3.27"
0.8	50	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.1	428	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.0	528	Total			

Summary for Subcatchment S212: SWALE

Runoff = 1.49 cfs @ 12.26 hrs, Volume= 6,694 cf, Depth> 2.58"
 Routed to Reach SC2 : Stream Crossing #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
7,747	61	>75% Grass cover, Good, HSG B
5,761	55	Woods, Good, HSG B
2,263	74	>75% Grass cover, Good, HSG C
2,141	70	Woods, Good, HSG C
661	80	>75% Grass cover, Good, HSG D
12,563	98	Water Surface, 0% imp, HSG D
31,136	77	Weighted Average
31,136		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	50	0.0050	0.06		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
4.7	100	0.0050	0.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.8	150	Total			

Summary for Subcatchment S213: COURTYARD

Runoff = 1.65 cfs @ 12.09 hrs, Volume= 5,225 cf, Depth> 2.95"
 Routed to Pond 11P : YARD DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
3,938	39	>75% Grass cover, Good, HSG A
1,339	98	Paved parking, HSG A
215	98	Roofs, HSG A
2,201	98	Water Surface, 0% imp, HSG A
4,975	74	>75% Grass cover, Good, HSG C
6,390	98	Paved parking, HSG C
637	98	Roofs, HSG C
718	98	Water Surface, 0% imp, HSG C
764	80	>75% Grass cover, Good, HSG D
94	98	Paved parking, HSG D
21,271	81	Weighted Average
12,596		59.22% Pervious Area
8,675		40.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T1: Trench Drain 1

Runoff = 0.97 cfs @ 12.09 hrs, Volume= 3,274 cf, Depth> 4.16"
 Routed to Pond 5R : TRENCH DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
1,281	74	>75% Grass cover, Good, HSG C
4,088	98	Paved parking, HSG C
662	80	>75% Grass cover, Good, HSG D
3,423	98	Paved parking, HSG D
9,454	93	Weighted Average
1,943		20.55% Pervious Area
7,511		79.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T2: Drive Under B2

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,372 cf, Depth> 2.95"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
1,582	39	>75% Grass cover, Good, HSG A
2,313	98	Paved parking, HSG A
77	74	>75% Grass cover, Good, HSG C
1,613	98	Paved parking, HSG C
5,585	81	Weighted Average
1,659		29.70% Pervious Area
3,926		70.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH1: TOWN HOUSE #1

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 2,107 cf, Depth> 4.27"
 Routed to Pond DE61 : DRIP #61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH10: TOWN HOUSE #10

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf, Depth> 4.38"
 Routed to Pond DE70 : DRIP #70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH11: TOWN HOUSE #11

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,162 cf, Depth> 4.38"
 Routed to Pond DE71 : DRIP #71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH2: TOWN HOUSE #2

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 2,107 cf, Depth> 4.27"
 Routed to Pond DE62 : DRIP #62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH3: TOWN HOUSE #3

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 1,248 cf, Depth> 4.38"
 Routed to Pond DE63 : DRIP #63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH4: TOWN HOUSE #4

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf, Depth> 4.38"
 Routed to Pond DE64 : DRIP #64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH5: TOWN HOUSE #5

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 1,248 cf, Depth> 4.38"
 Routed to Pond DE65 : DRIP #65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment TH6: TOWN HOUSE #6

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf, Depth> 4.38"
 Routed to Pond DE66 : DRIP #66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH7: TOWN HOUSE #7

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf, Depth> 4.38"
 Routed to Pond DE67 : DRIP #67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH8: TOWN HOUSE #8

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,162 cf, Depth> 4.38"
 Routed to Pond DE68 : DRIP #68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

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Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH9: TOWN HOUSE #9

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf, Depth> 4.38"
 Routed to Pond DE69 : DRIP #69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10YR Rainfall=4.96"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Reach 1R: OVERLAND FLOW

Inflow Area = 12,069 sf, 87.75% Impervious, Inflow Depth > 2.95" for 10YR event
 Inflow = 1.17 cfs @ 12.12 hrs, Volume= 2,965 cf
 Outflow = 0.06 cfs @ 14.52 hrs, Volume= 1,805 cf, Atten= 95%, Lag= 144.2 min
 Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Max. Velocity= 0.04 fps, Min. Travel Time= 564.7 min
 Avg. Velocity = 0.03 fps, Avg. Travel Time= 644.1 min

Peak Storage= 1,887 cf @ 14.52 hrs
 Average Depth at Peak Storage= 0.03' , Surface Width= 50.28'
 Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 22.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
 Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'
 Length= 1,350.0' Slope= 0.0133 ' / '
 Inlet Invert= 218.00', Outlet Invert= 200.00'

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Summary for Reach 3R: OVERLAND FLOW

Inflow Area = 7,508 sf, 88.23% Impervious, Inflow Depth > 3.10" for 10YR event
Inflow = 0.75 cfs @ 12.12 hrs, Volume= 1,937 cf
Outflow = 0.13 cfs @ 12.62 hrs, Volume= 1,756 cf, Atten= 83%, Lag= 30.3 min
Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.07 fps, Min. Travel Time= 121.4 min
Avg. Velocity = 0.04 fps, Avg. Travel Time= 207.9 min

Peak Storage= 931 cf @ 12.62 hrs
Average Depth at Peak Storage= 0.05' , Surface Width= 40.49'
Bank-Full Depth= 1.00' Flow Area= 45.0 sf, Capacity= 20.48 cfs

40.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 50.00'
Length= 475.0' Slope= 0.0174 ' / '
Inlet Invert= 211.50', Outlet Invert= 203.25'



Summary for Reach 4R: OVERLAND FLOW

Inflow Area = 12,683 sf, 88.20% Impervious, Inflow Depth > 3.14" for 10YR event
Inflow = 1.26 cfs @ 12.12 hrs, Volume= 3,320 cf
Outflow = 0.24 cfs @ 12.59 hrs, Volume= 3,046 cf, Atten= 81%, Lag= 28.6 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.08 fps, Min. Travel Time= 108.0 min
Avg. Velocity = 0.04 fps, Avg. Travel Time= 205.2 min

Peak Storage= 1,558 cf @ 12.59 hrs
Average Depth at Peak Storage= 0.06' , Surface Width= 51.15'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 30.09 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 535.0' Slope= 0.0224 '/'

Inlet Invert= 202.00', Outlet Invert= 190.00'



Summary for Reach 7R: OVERLAND FLOW

Inflow Area = 8,196 sf, 90.65% Impervious, Inflow Depth > 3.35" for 10YR event

Inflow = 0.79 cfs @ 12.12 hrs, Volume= 2,289 cf

Outflow = 0.10 cfs @ 12.77 hrs, Volume= 1,936 cf, Atten= 87%, Lag= 38.8 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.06 fps, Min. Travel Time= 199.5 min

Avg. Velocity= 0.04 fps, Avg. Travel Time= 295.2 min

Peak Storage= 1,222 cf @ 12.77 hrs

Average Depth at Peak Storage= 0.03' , Surface Width= 50.33'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 30.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 730.0' Slope= 0.0247 '/'

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 8R: OVERLAND FLOW

Inflow Area = 7,815 sf, 88.27% Impervious, Inflow Depth > 3.29" for 10YR event

Inflow = 0.77 cfs @ 12.12 hrs, Volume= 2,142 cf

Outflow = 0.09 cfs @ 12.85 hrs, Volume= 1,781 cf, Atten= 89%, Lag= 43.7 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.06 fps, Min. Travel Time= 223.2 min

Avg. Velocity= 0.04 fps, Avg. Travel Time= 321.8 min

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Peak Storage= 1,175 cf @ 12.85 hrs

Average Depth at Peak Storage= 0.03' , Surface Width= 50.62'

Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.01 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'

Length= 756.0' Slope= 0.0238 ' / '

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 9R: OVERLAND FLOW

Inflow Area = 16,553 sf, 87.42% Impervious, Inflow Depth > 2.72" for 10YR event

Inflow = 1.54 cfs @ 12.12 hrs, Volume= 3,758 cf

Outflow = 0.56 cfs @ 12.42 hrs, Volume= 3,645 cf, Atten= 64%, Lag= 17.8 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.17 fps, Min. Travel Time= 36.3 min

Avg. Velocity= 0.07 fps, Avg. Travel Time= 89.8 min

Peak Storage= 1,209 cf @ 12.42 hrs

Average Depth at Peak Storage= 0.12' , Surface Width= 26.24'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 19.23 cfs

25.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 ' / ' Top Width= 35.00'

Length= 380.0' Slope= 0.0368 ' / '

Inlet Invert= 200.00', Outlet Invert= 186.00'



Summary for Reach 10R: OVERLAND FLOW

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth = 0.53" for 10YR event

Inflow = 1.18 cfs @ 12.56 hrs, Volume= 5,181 cf

Outflow = 1.09 cfs @ 12.75 hrs, Volume= 5,180 cf, Atten= 8%, Lag= 11.7 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.24 fps, Min. Travel Time= 11.6 min

Avg. Velocity = 0.07 fps, Avg. Travel Time= 41.6 min

Peak Storage= 757 cf @ 12.75 hrs

Average Depth at Peak Storage= 0.21' , Surface Width= 24.18'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 17.57 cfs

20.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 ' / ' Top Width= 40.00'

Length= 164.0' Slope= 0.0366 ' / '

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 11R: 4x4 Open Bottom Culvert

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 1.33" for 10YR event

Inflow = 4.37 cfs @ 12.42 hrs, Volume= 51,349 cf

Outflow = 4.37 cfs @ 12.43 hrs, Volume= 51,340 cf, Atten= 0%, Lag= 0.2 min

Routed to Reach 23R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 1.65 fps, Min. Travel Time= 0.3 min

Avg. Velocity = 0.76 fps, Avg. Travel Time= 0.7 min

Peak Storage= 79 cf @ 12.43 hrs

Average Depth at Peak Storage= 0.66' , Surface Width= 4.00'

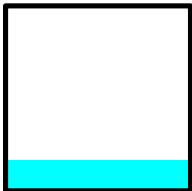
Bank-Full Depth= 4.00' Flow Area= 16.0 sf, Capacity= 42.20 cfs

48.0" W x 48.0" H Box Pipe

n= 0.069 Riprap, 6-inch

Length= 30.0' Slope= 0.0150 ' / '

Inlet Invert= 194.00', Outlet Invert= 193.55'



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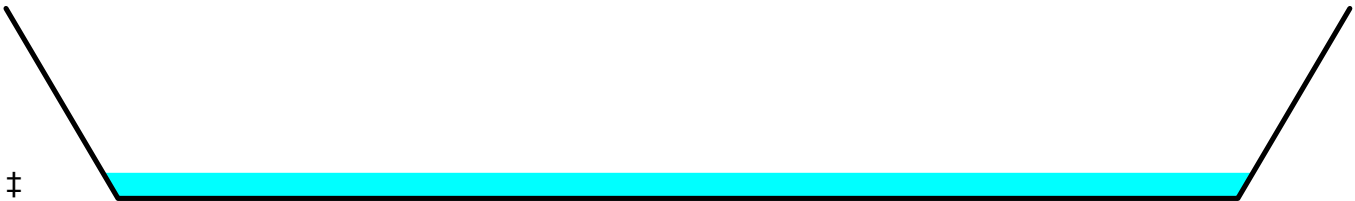
Summary for Reach 12R: OVERLAND FLOW

Inflow Area = 19,621 sf, 88.70% Impervious, Inflow Depth > 3.68" for 10YR event
Inflow = 1.86 cfs @ 12.13 hrs, Volume= 6,024 cf
Outflow = 1.03 cfs @ 12.30 hrs, Volume= 5,895 cf, Atten= 45%, Lag= 10.4 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.15 fps, Min. Travel Time= 27.7 min
Avg. Velocity = 0.05 fps, Avg. Travel Time= 79.8 min

Peak Storage= 1,710 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.14' , Surface Width= 51.35'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 29.80 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'
Length= 250.0' Slope= 0.0240 ' / '
Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 13R: OVERLAND FLOW

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 3.58" for 10YR event
Inflow = 0.49 cfs @ 12.15 hrs, Volume= 1,769 cf
Outflow = 0.07 cfs @ 12.89 hrs, Volume= 1,443 cf, Atten= 86%, Lag= 44.3 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.04 fps, Min. Travel Time= 248.6 min
Avg. Velocity = 0.03 fps, Avg. Travel Time= 357.3 min

Peak Storage= 1,003 cf @ 12.89 hrs
Average Depth at Peak Storage= 0.03' , Surface Width= 50.60'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 24.73 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 660.0' Slope= 0.0152 ' / '
Inlet Invert= 206.00', Outlet Invert= 196.00'

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Summary for Reach 14R: OVERLAND FLOW

Inflow Area = 42,474 sf, 23.18% Impervious, Inflow Depth > 2.66" for 10YR event
Inflow = 2.05 cfs @ 12.21 hrs, Volume= 9,401 cf
Outflow = 0.53 cfs @ 12.86 hrs, Volume= 8,435 cf, Atten= 74%, Lag= 38.9 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.12 fps, Min. Travel Time= 122.4 min
Avg. Velocity = 0.06 fps, Avg. Travel Time= 224.7 min

Peak Storage= 3,913 cf @ 12.86 hrs
Average Depth at Peak Storage= 0.09' , Surface Width= 51.80'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.55 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 852.0' Slope= 0.0246 ' / '
Inlet Invert= 207.00', Outlet Invert= 186.00'



Summary for Reach 15R: OVERLAND FLOW

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 1.60" for 10YR event
Inflow = 0.86 cfs @ 13.02 hrs, Volume= 14,245 cf
Outflow = 0.65 cfs @ 13.79 hrs, Volume= 13,379 cf, Atten= 24%, Lag= 45.8 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.12 fps, Min. Travel Time= 42.1 min
Avg. Velocity = 0.08 fps, Avg. Travel Time= 61.4 min

Peak Storage= 1,644 cf @ 13.79 hrs
Average Depth at Peak Storage= 0.11' , Surface Width= 51.08'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 27.21 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 300.0' Slope= 0.0200 '/'

Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 16R: OVERLAND FLOW

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 3.28" for 10YR event

Inflow = 0.31 cfs @ 12.12 hrs, Volume= 876 cf

Outflow = 0.08 cfs @ 12.51 hrs, Volume= 845 cf, Atten= 73%, Lag= 23.5 min

Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.06 fps, Min. Travel Time= 76.4 min

Avg. Velocity= 0.03 fps, Avg. Travel Time= 133.6 min

Peak Storage= 381 cf @ 12.51 hrs

Average Depth at Peak Storage= 0.03' , Surface Width= 50.29'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 31.39 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 263.0' Slope= 0.0266 '/'

Inlet Invert= 216.00', Outlet Invert= 209.00'



Summary for Reach 18R: OVERLAND FLOW

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 2.08" for 10YR event

Inflow = 1.32 cfs @ 14.26 hrs, Volume= 54,043 cf

Outflow = 1.32 cfs @ 14.46 hrs, Volume= 52,977 cf, Atten= 0%, Lag= 12.0 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.18 fps, Min. Travel Time= 17.1 min

Avg. Velocity= 0.11 fps, Avg. Travel Time= 26.9 min

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Peak Storage= 1,349 cf @ 14.46 hrs

Average Depth at Peak Storage= 0.14' , Surface Width= 52.85'

Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 36.29 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 184.0' Slope= 0.0326 '/'

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 20R: OVERLAND FLOW

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth > 2.32" for 10YR event

Inflow = 1.85 cfs @ 12.46 hrs, Volume= 14,304 cf

Outflow = 1.06 cfs @ 13.55 hrs, Volume= 13,697 cf, Atten= 43%, Lag= 65.2 min

Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.11 fps, Min. Travel Time= 81.8 min

Avg. Velocity= 0.06 fps, Avg. Travel Time= 153.7 min

Peak Storage= 5,220 cf @ 13.55 hrs

Average Depth at Peak Storage= 0.18' , Surface Width= 51.83'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 18.54 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 560.0' Slope= 0.0093 '/'

Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach 23R: OVERLAND FLOW

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 1.33" for 10YR event

Inflow = 4.37 cfs @ 12.43 hrs, Volume= 51,340 cf

Outflow = 3.75 cfs @ 12.68 hrs, Volume= 50,801 cf, Atten= 14%, Lag= 15.0 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.22 fps, Min. Travel Time= 17.6 min

Avg. Velocity = 0.10 fps, Avg. Travel Time= 38.4 min

Peak Storage= 3,952 cf @ 12.68 hrs

Average Depth at Peak Storage= 0.30' , Surface Width= 61.92'

Bank-Full Depth= 1.00' Flow Area= 70.0 sf, Capacity= 31.93 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 20.0 ' / ' Top Width= 90.00'

Length= 237.0' Slope= 0.0211 ' / '

Inlet Invert= 193.00', Outlet Invert= 188.00'



Summary for Reach R202: OVERLAND FLOW

[62] Hint: Exceeded Reach SC1 OUTLET depth by 0.22' @ 13.00 hrs

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 2.67" for 10YR event

Inflow = 18.89 cfs @ 12.30 hrs, Volume= 89,284 cf

Outflow = 8.46 cfs @ 12.70 hrs, Volume= 84,498 cf, Atten= 55%, Lag= 23.9 min

Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.20 fps, Min. Travel Time= 59.7 min

Avg. Velocity = 0.08 fps, Avg. Travel Time= 138.0 min

Peak Storage= 30,325 cf @ 12.70 hrs

Average Depth at Peak Storage= 0.39' , Surface Width= 119.72'

Bank-Full Depth= 1.00' Flow Area= 125.0 sf, Capacity= 42.56 cfs

100.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 25.0 ' / ' Top Width= 150.00'

Length= 700.0' Slope= 0.0107 ' / '

Inlet Invert= 205.50', Outlet Invert= 198.00'



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Summary for Reach R211: OVERLAND FLOW

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth = 0.71" for 10YR event
Inflow = 2.56 cfs @ 12.66 hrs, Volume= 16,419 cf
Outflow = 1.52 cfs @ 13.68 hrs, Volume= 16,033 cf, Atten= 40%, Lag= 60.9 min
Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.14 fps, Min. Travel Time= 72.3 min
Avg. Velocity= 0.07 fps, Avg. Travel Time= 152.5 min

Peak Storage= 6,596 cf @ 13.68 hrs
Average Depth at Peak Storage= 0.28' , Surface Width= 43.41'
Bank-Full Depth= 1.00' Flow Area= 50.0 sf, Capacity= 14.51 cfs

35.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 15.0 ' / ' Top Width= 65.00'
Length= 600.0' Slope= 0.0087 ' / '
Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach SC1: Stream Crossing #1

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 2.67" for 10YR event
Inflow = 18.89 cfs @ 12.30 hrs, Volume= 89,300 cf
Outflow = 18.89 cfs @ 12.30 hrs, Volume= 89,284 cf, Atten= 0%, Lag= 0.1 min
Routed to Reach R202 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 3.38 fps, Min. Travel Time= 0.2 min
Avg. Velocity= 1.18 fps, Avg. Travel Time= 0.6 min

Peak Storage= 241 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.35' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 69.8 sf, Capacity= 722.91 cfs

192.0" W x 60.0" H, R=207.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 43.1' Slope= 0.0200 ' / '
Inlet Invert= 206.37', Outlet Invert= 205.51'

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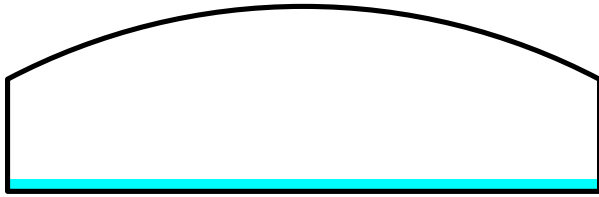
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Summary for Reach SC2: Stream Crossing #2

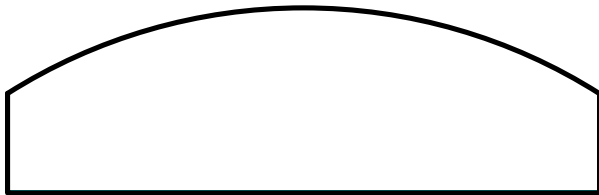
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 38,220 sf, 16.10% Impervious, Inflow Depth > 2.63" for 10YR event
Inflow = 1.78 cfs @ 12.25 hrs, Volume= 8,374 cf
Outflow = 1.77 cfs @ 12.25 hrs, Volume= 8,372 cf, Atten= 0%, Lag= 0.2 min
Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 1.45 fps, Min. Travel Time= 0.4 min
Avg. Velocity= 1.05 fps, Avg. Travel Time= 0.6 min

Peak Storage= 44 cf @ 12.25 hrs
Average Depth at Peak Storage= 0.08' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 68.1 sf, Capacity= 768.96 cfs

192.0" W x 60.0" H, R=180.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 36.5' Slope= 0.0241 '/
Inlet Invert= 208.52', Outlet Invert= 207.64'



Summary for Pond 5R: TRENCH DRAIN

Inflow Area = 9,454 sf, 79.45% Impervious, Inflow Depth > 4.16" for 10YR event
Inflow = 0.97 cfs @ 12.09 hrs, Volume= 3,274 cf
Outflow = 0.97 cfs @ 12.09 hrs, Volume= 3,274 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.09 hrs, Volume= 3,274 cf
Routed to Pond D34 : DMH #34

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Peak Elev= 198.02' @ 12.09 hrs
Flood Elev= 200.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.00'	15.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 197.00' / 196.88' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

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Primary OutFlow Max=0.95 cfs @ 12.09 hrs HW=198.00' TW=197.96' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.95 cfs @ 1.23 fps)**Summary for Pond 11P: YARD DRAIN**

Inflow Area = 21,271 sf, 40.78% Impervious, Inflow Depth > 2.95" for 10YR event
 Inflow = 1.65 cfs @ 12.09 hrs, Volume= 5,225 cf
 Outflow = 1.21 cfs @ 12.17 hrs, Volume= 5,183 cf, Atten= 27%, Lag= 4.8 min
 Primary = 1.21 cfs @ 12.17 hrs, Volume= 5,183 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.38' @ 12.17 hrs Surf.Area= 5,825 sf Storage= 702 cf

Plug-Flow detention time= 18.0 min calculated for 5,183 cf (99% of inflow)

Center-of-Mass det. time= 13.2 min (832.1 - 818.9)

Volume	Invert	Avail.Storage	Storage Description
#1	207.25'	5,475 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.25	5,050	0	0
208.00	9,550	5,475	5,475

Device	Routing	Invert	Outlet Devices
#1	Primary	203.25'	12.0" Round Culvert L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 203.25' / 202.94' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	207.25'	4.0" x 4.0" Horiz. Orifice/Grate X 4.00 columns X 4 rows C= 0.600 in 24.0" x 24.0" Grate (44% open area) Limited to weir flow at low heads

Primary OutFlow Max=1.19 cfs @ 12.17 hrs HW=207.38' TW=203.04' (Dynamic Tailwater)↑**1=Culvert** (Passes 1.19 cfs of 6.60 cfs potential flow)↑**2=Orifice/Grate** (Weir Controls 1.19 cfs @ 1.17 fps)**Summary for Pond CB1: CB#1**

Inflow Area = 26,588 sf, 32.90% Impervious, Inflow Depth > 2.24" for 10YR event
 Inflow = 1.16 cfs @ 12.23 hrs, Volume= 4,967 cf
 Outflow = 1.16 cfs @ 12.23 hrs, Volume= 4,967 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.16 cfs @ 12.23 hrs, Volume= 4,967 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.52' @ 12.23 hrs

Flood Elev= 211.00'

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Device	Routing	Invert	Outlet Devices
#1	Primary	207.83'	12.0" Round Culvert L= 14.1' Ke= 0.500 Inlet / Outlet Invert= 207.83' / 207.76' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.15 cfs @ 12.23 hrs HW=208.52' TW=207.47' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.15 cfs @ 2.84 fps)**Summary for Pond CB10: CB #10**

Inflow Area = 9,660 sf, 94.65% Impervious, Inflow Depth > 4.60" for 10YR event
 Inflow = 1.04 cfs @ 12.09 hrs, Volume= 3,707 cf
 Outflow = 1.04 cfs @ 12.09 hrs, Volume= 3,707 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.04 cfs @ 12.09 hrs, Volume= 3,707 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.44' @ 12.09 hrs

Flood Elev= 212.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.76'	12.0" Round Culvert L= 33.8' Ke= 0.500 Inlet / Outlet Invert= 209.76' / 209.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.02 cfs @ 12.09 hrs HW=210.43' TW=210.16' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.02 cfs @ 2.59 fps)**Summary for Pond CB11: CB #11**

Inflow Area = 13,834 sf, 51.04% Impervious, Inflow Depth > 3.43" for 10YR event
 Inflow = 1.23 cfs @ 12.09 hrs, Volume= 3,951 cf
 Outflow = 1.23 cfs @ 12.09 hrs, Volume= 3,951 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.23 cfs @ 12.09 hrs, Volume= 3,951 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.58' @ 12.09 hrs

Flood Elev= 213.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.94'	12.0" Round Culvert L= 26.3' Ke= 0.500 Inlet / Outlet Invert= 209.94' / 209.67' S= 0.0103 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.20 cfs @ 12.09 hrs HW=210.57' TW=210.16' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.20 cfs @ 3.32 fps)

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Summary for Pond CB12: CB #12

Inflow Area = 9,596 sf, 47.54% Impervious, Inflow Depth > 3.33" for 10YR event
 Inflow = 0.83 cfs @ 12.09 hrs, Volume= 2,662 cf
 Outflow = 0.83 cfs @ 12.09 hrs, Volume= 2,662 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.83 cfs @ 12.09 hrs, Volume= 2,662 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.26' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.0' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=210.25' TW=207.11' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.82 cfs @ 2.59 fps)**Summary for Pond CB13: CB #13**

Inflow Area = 8,572 sf, 67.67% Impervious, Inflow Depth > 3.83" for 10YR event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 2,739 cf
 Outflow = 0.84 cfs @ 12.09 hrs, Volume= 2,739 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.84 cfs @ 12.09 hrs, Volume= 2,739 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.26' @ 12.09 hrs

Flood Elev= 212.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.6' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.81 cfs @ 12.09 hrs HW=210.25' TW=207.11' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.81 cfs @ 2.58 fps)**Summary for Pond CB14: CB #14**

Inflow Area = 12,986 sf, 75.60% Impervious, Inflow Depth > 3.33" for 10YR event
 Inflow = 1.13 cfs @ 12.09 hrs, Volume= 3,602 cf
 Outflow = 1.13 cfs @ 12.09 hrs, Volume= 3,602 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.13 cfs @ 12.09 hrs, Volume= 3,602 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 201.60' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 23.2' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.67' S= 0.0052 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.10 cfs @ 12.09 hrs HW=201.59' TW=201.42' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.10 cfs @ 2.24 fps)**Summary for Pond CB15: CB #15**

Inflow Area = 4,895 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.53 cfs @ 12.09 hrs, Volume= 1,926 cf
 Outflow = 0.53 cfs @ 12.09 hrs, Volume= 1,926 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.53 cfs @ 12.09 hrs, Volume= 1,926 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.49' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.71' S= 0.0051 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=201.47' TW=201.42' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.52 cfs @ 1.28 fps)**Summary for Pond CB16: CB #16**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 2.76" for 10YR event
 Inflow = 0.59 cfs @ 12.09 hrs, Volume= 1,858 cf
 Outflow = 0.59 cfs @ 12.09 hrs, Volume= 1,858 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.59 cfs @ 12.09 hrs, Volume= 1,858 cf
 Routed to Pond D10 : DMH #10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.97' @ 12.09 hrs

Flood Elev= 206.64'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.47'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 203.47' / 203.33' S= 0.0067 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.09 hrs HW=203.97' TW=203.79' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.58 cfs @ 2.17 fps)

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Summary for Pond CB17: CB #17

Inflow Area = 11,845 sf, 77.88% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 1.22 cfs @ 12.09 hrs, Volume= 4,102 cf
 Outflow = 1.22 cfs @ 12.09 hrs, Volume= 4,102 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.22 cfs @ 12.09 hrs, Volume= 4,102 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.67' @ 12.09 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.99'	12.0" Round Culvert L= 13.8' Ke= 0.500 Inlet / Outlet Invert= 204.99' / 204.86' S= 0.0094 ' S= 0.0094 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.19 cfs @ 12.09 hrs HW=205.66' TW=205.39' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.19 cfs @ 3.02 fps)**Summary for Pond CB18: CB #18**

Inflow Area = 25,103 sf, 74.55% Impervious, Inflow Depth > 3.34" for 10YR event
 Inflow = 2.18 cfs @ 12.09 hrs, Volume= 6,983 cf
 Outflow = 2.18 cfs @ 12.09 hrs, Volume= 6,983 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.18 cfs @ 12.09 hrs, Volume= 6,983 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.68' @ 12.09 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.72'	15.0" Round Culvert L= 25.1' Ke= 0.500 Inlet / Outlet Invert= 204.72' / 204.59' S= 0.0052 ' S= 0.0052 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.15 cfs @ 12.09 hrs HW=205.67' TW=205.39' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.15 cfs @ 2.97 fps)**Summary for Pond CB2: CB#2**

Inflow Area = 19,138 sf, 74.07% Impervious, Inflow Depth > 3.83" for 10YR event
 Inflow = 1.87 cfs @ 12.09 hrs, Volume= 6,116 cf
 Outflow = 1.87 cfs @ 12.09 hrs, Volume= 6,116 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.87 cfs @ 12.09 hrs, Volume= 6,116 cf
 Routed to Pond D1 : DMH#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.75' @ 12.09 hrs

Flood Elev= 208.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.86'	12.0" Round Culvert L= 92.1' Ke= 0.500 Inlet / Outlet Invert= 204.86' / 204.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.82 cfs @ 12.09 hrs HW=205.73' TW=204.47' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.82 cfs @ 3.35 fps)**Summary for Pond CB20: CB #20**

Inflow Area = 11,694 sf, 79.49% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 1.20 cfs @ 12.09 hrs, Volume= 4,050 cf
 Outflow = 1.20 cfs @ 12.09 hrs, Volume= 4,050 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.20 cfs @ 12.09 hrs, Volume= 4,050 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.65' @ 12.09 hrs

Flood Elev= 207.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.97'	12.0" Round Culvert L= 30.3' Ke= 0.500 Inlet / Outlet Invert= 203.97' / 203.81' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.17 cfs @ 12.09 hrs HW=204.64' TW=204.18' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.17 cfs @ 2.94 fps)**Summary for Pond CB21: CB #21**

Inflow Area = 9,093 sf, 91.54% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 0.94 cfs @ 12.09 hrs, Volume= 3,149 cf
 Outflow = 0.94 cfs @ 12.09 hrs, Volume= 3,149 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.94 cfs @ 12.09 hrs, Volume= 3,149 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.92' @ 12.09 hrs

Flood Elev= 208.02'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.32'	12.0" Round Culvert L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 204.32' / 204.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.91 cfs @ 12.09 hrs HW=204.91' TW=204.18' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.91 cfs @ 2.72 fps)

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Summary for Pond CB22: CB #22

Inflow Area = 9,139 sf, 88.07% Impervious, Inflow Depth > 4.49" for 10YR event
 Inflow = 0.98 cfs @ 12.09 hrs, Volume= 3,419 cf
 Outflow = 0.98 cfs @ 12.09 hrs, Volume= 3,419 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.98 cfs @ 12.09 hrs, Volume= 3,419 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.94' @ 12.09 hrs

Flood Elev= 208.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.33'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 205.33' / 205.25' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.95 cfs @ 12.09 hrs HW=205.93' TW=205.24' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.95 cfs @ 2.75 fps)**Summary for Pond CB23: CB #23**

Inflow Area = 9,139 sf, 62.65% Impervious, Inflow Depth > 3.73" for 10YR event
 Inflow = 0.87 cfs @ 12.09 hrs, Volume= 2,841 cf
 Outflow = 0.87 cfs @ 12.09 hrs, Volume= 2,841 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.87 cfs @ 12.09 hrs, Volume= 2,841 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.98' @ 12.09 hrs

Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.41'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 205.41' / 205.32' S= 0.0055 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.85 cfs @ 12.09 hrs HW=205.97' TW=205.24' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.85 cfs @ 2.72 fps)**Summary for Pond CB24: CB #24**

Inflow Area = 1,933 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.21 cfs @ 12.09 hrs, Volume= 760 cf
 Outflow = 0.21 cfs @ 12.09 hrs, Volume= 760 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.21 cfs @ 12.09 hrs, Volume= 760 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.63' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.15' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.09 hrs HW=205.62' TW=205.59' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.20 cfs @ 1.01 fps)**Summary for Pond CB25: CB #25**

Inflow Area = 8,811 sf, 96.03% Impervious, Inflow Depth > 4.60" for 10YR event
 Inflow = 0.95 cfs @ 12.09 hrs, Volume= 3,381 cf
 Outflow = 0.95 cfs @ 12.09 hrs, Volume= 3,381 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.95 cfs @ 12.09 hrs, Volume= 3,381 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.83' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.22'	12.0" Round Culvert L= 11.4' Ke= 0.500 Inlet / Outlet Invert= 205.22' / 205.16' S= 0.0053 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.93 cfs @ 12.09 hrs HW=205.82' TW=205.59' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.93 cfs @ 2.71 fps)**Summary for Pond CB26: CB #26**

Inflow Area = 14,532 sf, 64.66% Impervious, Inflow Depth > 4.05" for 10YR event
 Inflow = 1.47 cfs @ 12.09 hrs, Volume= 4,901 cf
 Outflow = 1.47 cfs @ 12.09 hrs, Volume= 4,901 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.47 cfs @ 12.09 hrs, Volume= 4,901 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.54' @ 12.09 hrs

Flood Elev= 204.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.77'	12.0" Round Culvert L= 42.5' Ke= 0.500 Inlet / Outlet Invert= 201.77' / 201.55' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 12.09 hrs HW=202.53' TW=201.47' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.43 cfs @ 3.12 fps)

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Summary for Pond CB27: CB #27

Inflow Area = 9,808 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 1.07 cfs @ 12.09 hrs, Volume= 3,858 cf
 Outflow = 1.07 cfs @ 12.09 hrs, Volume= 3,858 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.07 cfs @ 12.09 hrs, Volume= 3,858 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.70' @ 12.09 hrs

Flood Elev= 204.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.00'	12.0" Round Culvert L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 201.00' / 200.90' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.04 cfs @ 12.09 hrs HW=201.68' TW=201.47' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.04 cfs @ 2.57 fps)**Summary for Pond CB28: CB #28**

Inflow Area = 10,368 sf, 51.34% Impervious, Inflow Depth > 3.63" for 10YR event
 Inflow = 0.97 cfs @ 12.09 hrs, Volume= 3,135 cf
 Outflow = 0.97 cfs @ 12.09 hrs, Volume= 3,135 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.97 cfs @ 12.09 hrs, Volume= 3,135 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 198.58' @ 12.09 hrs

Flood Elev= 200.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.75'	12.0" Round Culvert L= 13.7' Ke= 0.500 Inlet / Outlet Invert= 197.75' / 197.69' S= 0.0044 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.95 cfs @ 12.09 hrs HW=198.56' TW=198.46' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.95 cfs @ 1.89 fps)**Summary for Pond CB29: CB #29**

Inflow Area = 6,798 sf, 77.21% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,354 cf
 Outflow = 0.70 cfs @ 12.09 hrs, Volume= 2,354 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,354 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.09' @ 12.09 hrs

Flood Elev= 208.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 13.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.31' S= 0.0052 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=206.07' TW=205.99' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.68 cfs @ 1.65 fps)**Summary for Pond CB3: CB#3**

Inflow Area = 17,454 sf, 72.05% Impervious, Inflow Depth > 3.63" for 10YR event
 Inflow = 1.63 cfs @ 12.09 hrs, Volume= 5,277 cf
 Outflow = 1.63 cfs @ 12.09 hrs, Volume= 5,277 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.63 cfs @ 12.09 hrs, Volume= 5,277 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.64' @ 12.09 hrs

Flood Elev= 210.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	12.0" Round Culvert L= 10.2' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.74' S= 0.0059 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.59 cfs @ 12.09 hrs HW=208.63' TW=207.45' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.59 cfs @ 3.11 fps)**Summary for Pond CB30: CB #30**

Inflow Area = 12,141 sf, 63.92% Impervious, Inflow Depth > 3.73" for 10YR event
 Inflow = 1.16 cfs @ 12.09 hrs, Volume= 3,775 cf
 Outflow = 1.16 cfs @ 12.09 hrs, Volume= 3,775 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.16 cfs @ 12.09 hrs, Volume= 3,775 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.18' @ 12.09 hrs

Flood Elev= 208.54'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 17.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.29' S= 0.0051 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=206.16' TW=205.99' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.13 cfs @ 2.36 fps)

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Summary for Pond CB31: CB #31

Inflow Area = 11,736 sf, 71.29% Impervious, Inflow Depth > 3.94" for 10YR event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 3,854 cf
 Outflow = 1.17 cfs @ 12.09 hrs, Volume= 3,854 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.17 cfs @ 12.09 hrs, Volume= 3,854 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.88' @ 12.09 hrs

Flood Elev= 207.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.14 cfs @ 12.09 hrs HW=204.87' TW=204.29' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.14 cfs @ 2.83 fps)**Summary for Pond CB32: CB #32**

Inflow Area = 10,801 sf, 62.85% Impervious, Inflow Depth > 3.73" for 10YR event
 Inflow = 1.03 cfs @ 12.09 hrs, Volume= 3,358 cf
 Outflow = 1.03 cfs @ 12.09 hrs, Volume= 3,358 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.03 cfs @ 12.09 hrs, Volume= 3,358 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.83' @ 12.09 hrs

Flood Elev= 207.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.01 cfs @ 12.09 hrs HW=204.82' TW=204.29' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.01 cfs @ 2.74 fps)**Summary for Pond CB33: CB #33**

Inflow Area = 4,514 sf, 77.96% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,563 cf
 Outflow = 0.46 cfs @ 12.09 hrs, Volume= 1,563 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.46 cfs @ 12.09 hrs, Volume= 1,563 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.77' @ 12.09 hrs

Flood Elev= 208.45'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.28'	12.0" Round Culvert L= 11.7' Ke= 0.500 Inlet / Outlet Invert= 205.28' / 205.22' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=205.76' TW=205.66' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.45 cfs @ 1.77 fps)**Summary for Pond CB34: CB #34**

Inflow Area = 7,027 sf, 72.62% Impervious, Inflow Depth > 3.94" for 10YR event
 Inflow = 0.70 cfs @ 12.09 hrs, Volume= 2,307 cf
 Outflow = 0.70 cfs @ 12.09 hrs, Volume= 2,307 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.70 cfs @ 12.09 hrs, Volume= 2,307 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.81' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 16.5' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.13' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=205.80' TW=205.66' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.68 cfs @ 2.04 fps)**Summary for Pond CB35: CB #35**

Inflow Area = 2,891 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.31 cfs @ 12.09 hrs, Volume= 1,137 cf
 Outflow = 0.31 cfs @ 12.09 hrs, Volume= 1,137 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.31 cfs @ 12.09 hrs, Volume= 1,137 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.38' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 15.2' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.31 cfs @ 12.09 hrs HW=207.37' TW=207.21' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.31 cfs @ 2.01 fps)

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Summary for Pond CB36: CB #36

Inflow Area = 6,622 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.72 cfs @ 12.09 hrs, Volume= 2,605 cf
 Outflow = 0.72 cfs @ 12.09 hrs, Volume= 2,605 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.72 cfs @ 12.09 hrs, Volume= 2,605 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.56' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.70 cfs @ 12.09 hrs HW=207.55' TW=207.21' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.70 cfs @ 2.50 fps)**Summary for Pond CB37: CB #37**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 4.60" for 10YR event
 Inflow = 0.14 cfs @ 12.09 hrs, Volume= 483 cf
 Outflow = 0.14 cfs @ 12.09 hrs, Volume= 483 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.14 cfs @ 12.09 hrs, Volume= 483 cf
 Routed to Pond D24 : DMH #24

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.25' @ 12.09 hrs

Flood Elev= 212.66'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.07'	12.0" Round Culvert L= 77.2' Ke= 0.500 Inlet / Outlet Invert= 209.07' / 208.31' S= 0.0098 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=209.25' TW=208.40' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.13 cfs @ 2.09 fps)**Summary for Pond CB38: CB #38**

Inflow Area = 19,951 sf, 77.05% Impervious, Inflow Depth > 3.83" for 10YR event
 Inflow = 1.94 cfs @ 12.09 hrs, Volume= 6,376 cf
 Outflow = 1.94 cfs @ 12.09 hrs, Volume= 6,376 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.94 cfs @ 12.09 hrs, Volume= 6,376 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.63' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.7' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0048 ' S= 0.0048 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.90 cfs @ 12.09 hrs HW=210.61' TW=209.92' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.90 cfs @ 3.28 fps)**Summary for Pond CB39: CB #39**

Inflow Area = 7,773 sf, 98.44% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.85 cfs @ 12.09 hrs, Volume= 3,058 cf
 Outflow = 0.85 cfs @ 12.09 hrs, Volume= 3,058 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.85 cfs @ 12.09 hrs, Volume= 3,058 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.26' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0049 ' S= 0.0049 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=210.25' TW=209.92' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.82 cfs @ 2.60 fps)**Summary for Pond CB4: CB#4**

Inflow Area = 44,168 sf, 23.30% Impervious, Inflow Depth > 1.92" for 10YR event
 Inflow = 1.46 cfs @ 12.31 hrs, Volume= 7,062 cf
 Outflow = 1.46 cfs @ 12.31 hrs, Volume= 7,062 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.46 cfs @ 12.31 hrs, Volume= 7,062 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.73' @ 12.31 hrs

Flood Elev= 215.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.02'	15.0" Round Culvert L= 13.1' Ke= 0.500 Inlet / Outlet Invert= 212.02' / 211.96' S= 0.0046 ' S= 0.0046 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.45 cfs @ 12.31 hrs HW=212.73' TW=211.95' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.45 cfs @ 2.91 fps)

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Summary for Pond CB40: CB #40

Inflow Area = 4,556 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.50 cfs @ 12.09 hrs, Volume= 1,792 cf
 Outflow = 0.50 cfs @ 12.09 hrs, Volume= 1,792 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.50 cfs @ 12.09 hrs, Volume= 1,792 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.32' @ 12.09 hrs

Flood Elev= 216.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.68'	12.0" Round Culvert L= 26.7' Ke= 0.500 Inlet / Outlet Invert= 213.68' / 213.55' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.09 hrs HW=214.30' TW=214.24' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.48 cfs @ 1.34 fps)**Summary for Pond CB41: CB #41**

Inflow Area = 12,750 sf, 69.28% Impervious, Inflow Depth > 3.53" for 10YR event
 Inflow = 1.16 cfs @ 12.09 hrs, Volume= 3,747 cf
 Outflow = 1.16 cfs @ 12.09 hrs, Volume= 3,747 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.16 cfs @ 12.09 hrs, Volume= 3,747 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.58' @ 12.09 hrs

Flood Elev= 217.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.89'	12.0" Round Culvert L= 18.4' Ke= 0.500 Inlet / Outlet Invert= 213.89' / 213.80' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.14 cfs @ 12.09 hrs HW=214.57' TW=214.24' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.14 cfs @ 2.84 fps)**Summary for Pond CB42: CB #42**

Inflow Area = 11,277 sf, 36.51% Impervious, Inflow Depth > 2.41" for 10YR event
 Inflow = 0.72 cfs @ 12.09 hrs, Volume= 2,269 cf
 Outflow = 0.72 cfs @ 12.09 hrs, Volume= 2,269 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.72 cfs @ 12.09 hrs, Volume= 2,269 cf
 Routed to Pond D28 : DMH #28

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 218.37' @ 12.09 hrs

Flood Elev= 221.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.91'	12.0" Round Culvert L= 58.1' Ke= 0.500 Inlet / Outlet Invert= 217.91' / 217.47' S= 0.0076 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.71 cfs @ 12.09 hrs HW=218.37' TW=217.75' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.71 cfs @ 2.95 fps)**Summary for Pond CB43: CB #43**

Inflow Area = 4,084 sf, 81.61% Impervious, Inflow Depth > 3.94" for 10YR event
 Inflow = 0.41 cfs @ 12.09 hrs, Volume= 1,341 cf
 Outflow = 0.41 cfs @ 12.09 hrs, Volume= 1,341 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.41 cfs @ 12.09 hrs, Volume= 1,341 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.44' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=220.44' TW=220.33' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.40 cfs @ 1.77 fps)**Summary for Pond CB44: CB #44**

Inflow Area = 1,662 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.18 cfs @ 12.09 hrs, Volume= 654 cf
 Outflow = 0.18 cfs @ 12.09 hrs, Volume= 654 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.18 cfs @ 12.09 hrs, Volume= 654 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.37' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.18 cfs @ 12.09 hrs HW=220.37' TW=220.33' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.18 cfs @ 1.01 fps)

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Summary for Pond CB45: CB #45

Inflow Area = 2,109 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.23 cfs @ 12.09 hrs, Volume= 830 cf
 Outflow = 0.23 cfs @ 12.09 hrs, Volume= 830 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.23 cfs @ 12.09 hrs, Volume= 830 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.57' @ 12.09 hrs

Flood Elev= 224.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.29'	12.0" Round Culvert L= 18.2' Ke= 0.500 Inlet / Outlet Invert= 221.29' / 221.20' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.09 hrs HW=221.57' TW=221.27' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.22 cfs @ 1.87 fps)**Summary for Pond CB46: CB #46**

Inflow Area = 1,371 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.15 cfs @ 12.09 hrs, Volume= 539 cf
 Outflow = 0.15 cfs @ 12.09 hrs, Volume= 539 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.15 cfs @ 12.09 hrs, Volume= 539 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.76' @ 12.09 hrs

Flood Elev= 224.69'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.53'	12.0" Round Culvert L= 15.3' Ke= 0.500 Inlet / Outlet Invert= 221.53' / 221.45' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.09 hrs HW=221.75' TW=221.27' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.15 cfs @ 1.68 fps)**Summary for Pond CB47: CB#47**

Inflow Area = 3,060 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,204 cf
 Outflow = 0.33 cfs @ 12.09 hrs, Volume= 1,204 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.33 cfs @ 12.09 hrs, Volume= 1,204 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 225.33' @ 12.09 hrs

Flood Elev= 228.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	225.05'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 225.05' / 224.27' S= 0.0373 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.09 hrs HW=225.33' TW=224.70' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.32 cfs @ 1.80 fps)**Summary for Pond CB48: CB#48**

Inflow Area = 60,166 sf, 25.94% Impervious, Inflow Depth > 2.00" for 10YR event
 Inflow = 2.61 cfs @ 12.17 hrs, Volume= 10,036 cf
 Outflow = 2.61 cfs @ 12.17 hrs, Volume= 10,036 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.61 cfs @ 12.17 hrs, Volume= 10,036 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 225.31' @ 12.17 hrs

Flood Elev= 228.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	224.47'	15.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 224.47' / 224.00' S= 0.0278 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.55 cfs @ 12.17 hrs HW=225.30' TW=224.79' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.55 cfs @ 4.21 fps)**Summary for Pond CB49: CB#49**

Inflow Area = 5,895 sf, 28.14% Impervious, Inflow Depth > 2.08" for 10YR event
 Inflow = 0.32 cfs @ 12.10 hrs, Volume= 1,024 cf
 Outflow = 0.32 cfs @ 12.10 hrs, Volume= 1,024 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.32 cfs @ 12.10 hrs, Volume= 1,024 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 216.58' @ 12.10 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	216.30'	12.0" Round Culvert L= 15.4' Ke= 0.500 Inlet / Outlet Invert= 216.30' / 216.06' S= 0.0156 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.10 hrs HW=216.58' TW=215.25' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.32 cfs @ 1.79 fps)

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Summary for Pond CB5: CB#5

Inflow Area = 1,456 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.16 cfs @ 12.09 hrs, Volume= 573 cf
 Outflow = 0.16 cfs @ 12.09 hrs, Volume= 573 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.16 cfs @ 12.09 hrs, Volume= 573 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.34' @ 12.09 hrs

Flood Elev= 215.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.11'	12.0" Round Culvert L= 30.5' Ke= 0.500 Inlet / Outlet Invert= 212.11' / 211.96' S= 0.0049 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.09 hrs HW=212.33' TW=211.94' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.15 cfs @ 1.78 fps)**Summary for Pond CB50: CB#50**

Inflow Area = 5,175 sf, 33.29% Impervious, Inflow Depth > 2.16" for 10YR event
 Inflow = 0.29 cfs @ 12.10 hrs, Volume= 934 cf
 Outflow = 0.29 cfs @ 12.10 hrs, Volume= 934 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.10 hrs, Volume= 934 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.63' @ 12.10 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	215.36'	12.0" Round Culvert L= 17.3' Ke= 0.500 Inlet / Outlet Invert= 215.36' / 214.50' S= 0.0497 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.29 cfs @ 12.10 hrs HW=215.62' TW=215.25' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.29 cfs @ 1.75 fps)**Summary for Pond CB51: CB #51**

Inflow Area = 9,779 sf, 84.41% Impervious, Inflow Depth > 4.05" for 10YR event
 Inflow = 0.99 cfs @ 12.09 hrs, Volume= 3,298 cf
 Outflow = 0.99 cfs @ 12.09 hrs, Volume= 3,298 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.99 cfs @ 12.09 hrs, Volume= 3,298 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.23' @ 12.09 hrs

Flood Elev= 212.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	12.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 209.60' / 209.52' S= 0.0047 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.96 cfs @ 12.09 hrs HW=210.22' TW=208.25' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.96 cfs @ 2.70 fps)**Summary for Pond CB6: CB#6**

Inflow Area = 1,821 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 716 cf
 Outflow = 0.20 cfs @ 12.09 hrs, Volume= 716 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.20 cfs @ 12.09 hrs, Volume= 716 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.61' @ 12.09 hrs

Flood Elev= 215.73'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.39'	12.0" Round Culvert L= 38.3' Ke= 0.500 Inlet / Outlet Invert= 212.39' / 211.96' S= 0.0112 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 12.09 hrs HW=212.60' TW=211.94' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.19 cfs @ 1.57 fps)**Summary for Pond CB7: CB#7**

Inflow Area = 12,883 sf, 48.58% Impervious, Inflow Depth > 2.76" for 10YR event
 Inflow = 0.94 cfs @ 12.09 hrs, Volume= 2,968 cf
 Outflow = 0.94 cfs @ 12.09 hrs, Volume= 2,968 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.94 cfs @ 12.09 hrs, Volume= 2,968 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.11' @ 12.09 hrs

Flood Elev= 217.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.60'	12.0" Round Culvert L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 214.60' / 213.68' S= 0.0088 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.92 cfs @ 12.09 hrs HW=215.10' TW=213.62' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.92 cfs @ 3.42 fps)

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Summary for Pond CB8: CB#8

Inflow Area = 44,098 sf, 25.01% Impervious, Inflow Depth > 2.00" for 10YR event
 Inflow = 1.63 cfs @ 12.26 hrs, Volume= 7,344 cf
 Outflow = 1.63 cfs @ 12.26 hrs, Volume= 7,344 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.63 cfs @ 12.26 hrs, Volume= 7,344 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.90' @ 12.26 hrs

Flood Elev= 217.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.06'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 214.06' / 214.00' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.61 cfs @ 12.26 hrs HW=214.90' TW=213.61' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.61 cfs @ 3.09 fps)**Summary for Pond CB9: CB #9**

Inflow Area = 14,681 sf, 77.77% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 1.51 cfs @ 12.09 hrs, Volume= 5,084 cf
 Outflow = 1.51 cfs @ 12.09 hrs, Volume= 5,084 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.51 cfs @ 12.09 hrs, Volume= 5,084 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.76' @ 12.09 hrs

Flood Elev= 213.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.10'	12.0" Round Culvert L= 19.9' Ke= 0.500 Inlet / Outlet Invert= 210.10' / 209.71' S= 0.0196 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.47 cfs @ 12.09 hrs HW=210.75' TW=210.16' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.47 cfs @ 2.74 fps)**Summary for Pond D1: DMH#1**

Inflow Area = 241,902 sf, 36.54% Impervious, Inflow Depth > 2.39" for 10YR event
 Inflow = 10.44 cfs @ 12.13 hrs, Volume= 48,222 cf
 Outflow = 10.44 cfs @ 12.13 hrs, Volume= 48,222 cf, Atten= 0%, Lag= 0.0 min
 Primary = 10.44 cfs @ 12.13 hrs, Volume= 48,222 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 204.52' @ 12.13 hrs

Flood Elev= 209.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	202.90'	30.0" Round Culvert L= 24.6' Ke= 0.500 Inlet / Outlet Invert= 202.90' / 202.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=10.37 cfs @ 12.13 hrs HW=204.51' TW=199.19' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 10.37 cfs @ 4.41 fps)**Summary for Pond D10: DMH #10**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 2.76" for 10YR event
 Inflow = 0.59 cfs @ 12.09 hrs, Volume= 1,858 cf
 Outflow = 0.59 cfs @ 12.09 hrs, Volume= 1,858 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.59 cfs @ 12.09 hrs, Volume= 1,858 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.80' @ 12.09 hrs

Flood Elev= 206.49'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.33'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 203.33' / 203.25' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.09 hrs HW=203.79' TW=197.39' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.58 cfs @ 2.39 fps)**Summary for Pond D11: DMH #11**

Inflow Area = 36,948 sf, 75.62% Impervious, Inflow Depth > 3.60" for 10YR event
 Inflow = 3.40 cfs @ 12.09 hrs, Volume= 11,085 cf
 Outflow = 3.40 cfs @ 12.09 hrs, Volume= 11,085 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.40 cfs @ 12.09 hrs, Volume= 11,085 cf
 Routed to Pond OCS3 : OCS#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.40' @ 12.09 hrs

Flood Elev= 208.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.25'	15.0" Round Culvert L= 44.6' Ke= 0.500 Inlet / Outlet Invert= 204.25' / 204.03' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.34 cfs @ 12.09 hrs HW=205.39' TW=204.53' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.34 cfs @ 3.73 fps)

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Summary for Pond D12: DMH #12

Inflow Area = 20,787 sf, 84.76% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 2.14 cfs @ 12.09 hrs, Volume= 7,199 cf
 Outflow = 2.14 cfs @ 12.09 hrs, Volume= 7,199 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.14 cfs @ 12.09 hrs, Volume= 7,199 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.20' @ 12.09 hrs

Flood Elev= 207.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.21'	12.0" Round Culvert L= 41.9' Ke= 0.500 Inlet / Outlet Invert= 203.21' / 203.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.08 cfs @ 12.09 hrs HW=204.18' TW=203.20' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.08 cfs @ 3.39 fps)**Summary for Pond D13: DMH #13**

Inflow Area = 71,080 sf, 70.99% Impervious, Inflow Depth > 3.85" for 10YR event
 Inflow = 6.15 cfs @ 12.10 hrs, Volume= 22,784 cf
 Outflow = 6.15 cfs @ 12.10 hrs, Volume= 22,784 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.15 cfs @ 12.10 hrs, Volume= 22,784 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.22' @ 12.10 hrs

Flood Elev= 208.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.95'	24.0" Round Culvert L= 60.1' Ke= 0.500 Inlet / Outlet Invert= 201.95' / 201.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.08 cfs @ 12.10 hrs HW=203.21' TW=197.40' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 6.08 cfs @ 4.16 fps)**Summary for Pond D14: DMH #14**

Inflow Area = 29,022 sf, 83.28% Impervious, Inflow Depth > 4.30" for 10YR event
 Inflow = 3.01 cfs @ 12.09 hrs, Volume= 10,402 cf
 Outflow = 3.01 cfs @ 12.09 hrs, Volume= 10,402 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.01 cfs @ 12.09 hrs, Volume= 10,402 cf
 Routed to Pond d13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.26' @ 12.09 hrs

Flood Elev= 208.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.28'	15.0" Round Culvert L= 246.6' Ke= 0.500 Inlet / Outlet Invert= 204.28' / 203.05' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.93 cfs @ 12.09 hrs HW=205.24' TW=203.20' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.93 cfs @ 4.01 fps)**Summary for Pond D16: DMH #16**

Inflow Area = 10,744 sf, 96.74% Impervious, Inflow Depth > 4.63" for 10YR event
 Inflow = 1.16 cfs @ 12.09 hrs, Volume= 4,141 cf
 Outflow = 1.16 cfs @ 12.09 hrs, Volume= 4,141 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.16 cfs @ 12.09 hrs, Volume= 4,141 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.60' @ 12.09 hrs

Flood Elev= 208.59'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.90'	15.0" Round Culvert L= 103.5' Ke= 0.500 Inlet / Outlet Invert= 204.90' / 204.38' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=205.59' TW=205.24' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.13 cfs @ 2.38 fps)**Summary for Pond D17: DMH #17**

Inflow Area = 24,340 sf, 78.90% Impervious, Inflow Depth > 4.32" for 10YR event
 Inflow = 2.54 cfs @ 12.09 hrs, Volume= 8,760 cf
 Outflow = 2.54 cfs @ 12.09 hrs, Volume= 8,760 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.54 cfs @ 12.09 hrs, Volume= 8,760 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.49' @ 12.09 hrs

Flood Elev= 204.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.55'	12.0" Round Culvert L= 91.6' Ke= 0.500 Inlet / Outlet Invert= 200.55' / 197.69' S= 0.0312 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.47 cfs @ 12.09 hrs HW=201.47' TW=198.46' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.47 cfs @ 3.27 fps)

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Summary for Pond D18: DMH #18

Inflow Area = 34,708 sf, 70.67% Impervious, Inflow Depth > 4.11" for 10YR event
 Inflow = 3.50 cfs @ 12.09 hrs, Volume= 11,894 cf
 Outflow = 3.50 cfs @ 12.09 hrs, Volume= 11,894 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.50 cfs @ 12.09 hrs, Volume= 11,894 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 198.48' @ 12.09 hrs

Flood Elev= 201.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.44'	15.0" Round Culvert L= 46.3' Ke= 0.500 Inlet / Outlet Invert= 197.44' / 196.98' S= 0.0099 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.42 cfs @ 12.09 hrs HW=198.46' TW=196.28' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.42 cfs @ 4.35 fps)**Summary for Pond D19: DMH #19**

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 3.88" for 10YR event
 Inflow = 1.86 cfs @ 12.09 hrs, Volume= 6,129 cf
 Outflow = 1.86 cfs @ 12.09 hrs, Volume= 6,129 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.86 cfs @ 12.09 hrs, Volume= 6,129 cf
 Routed to Pond d20 : DMH #20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.01' @ 12.09 hrs

Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.19'	12.0" Round Culvert L= 82.5' Ke= 0.500 Inlet / Outlet Invert= 205.19' / 204.43' S= 0.0092 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.81 cfs @ 12.09 hrs HW=205.99' TW=205.21' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.81 cfs @ 3.67 fps)**Summary for Pond D2: DMH#2**

Inflow Area = 222,764 sf, 33.32% Impervious, Inflow Depth > 2.27" for 10YR event
 Inflow = 8.93 cfs @ 12.16 hrs, Volume= 42,105 cf
 Outflow = 8.93 cfs @ 12.16 hrs, Volume= 42,105 cf, Atten= 0%, Lag= 0.0 min
 Primary = 8.93 cfs @ 12.16 hrs, Volume= 42,105 cf
 Routed to Pond D1 : DMH#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.51' @ 12.16 hrs

Flood Elev= 211.04'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.29'	30.0" Round Culvert L= 129.9' Ke= 0.500 Inlet / Outlet Invert= 206.29' / 204.41' S= 0.0145 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.88 cfs @ 12.16 hrs HW=207.50' TW=204.50' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 8.88 cfs @ 3.75 fps)**Summary for Pond D20: DMH #20**

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 3.88" for 10YR event
 Inflow = 1.86 cfs @ 12.09 hrs, Volume= 6,129 cf
 Outflow = 1.86 cfs @ 12.09 hrs, Volume= 6,129 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.86 cfs @ 12.09 hrs, Volume= 6,129 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.22' @ 12.09 hrs

Flood Elev= 207.68'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.33'	12.0" Round Culvert L= 63.5' Ke= 0.500 Inlet / Outlet Invert= 204.33' / 204.02' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.81 cfs @ 12.09 hrs HW=205.21' TW=204.29' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.81 cfs @ 3.30 fps)**Summary for Pond D21: DMH #21**

Inflow Area = 63,788 sf, 74.43% Impervious, Inflow Depth > 4.03" for 10YR event
 Inflow = 6.39 cfs @ 12.09 hrs, Volume= 21,436 cf
 Outflow = 6.39 cfs @ 12.09 hrs, Volume= 21,436 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.39 cfs @ 12.09 hrs, Volume= 21,436 cf
 Routed to Pond p212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.31' @ 12.09 hrs

Flood Elev= 207.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.02'	24.0" Round Culvert L= 72.4' Ke= 0.500 Inlet / Outlet Invert= 203.02' / 202.66' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.23 cfs @ 12.09 hrs HW=204.29' TW=201.32' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 6.23 cfs @ 4.23 fps)

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Summary for Pond D22: DMH #22

Inflow Area = 22,312 sf, 86.56% Impervious, Inflow Depth > 4.35" for 10YR event
 Inflow = 2.33 cfs @ 12.09 hrs, Volume= 8,096 cf
 Outflow = 2.33 cfs @ 12.09 hrs, Volume= 8,096 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.33 cfs @ 12.09 hrs, Volume= 8,096 cf
 Routed to Pond d21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.68' @ 12.09 hrs

Flood Elev= 208.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.87'	15.0" Round Culvert L= 134.2' Ke= 0.500 Inlet / Outlet Invert= 204.87' / 203.92' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.27 cfs @ 12.09 hrs HW=205.66' TW=204.29' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.27 cfs @ 3.94 fps)**Summary for Pond D23: DMH #23**

Inflow Area = 10,771 sf, 99.27% Impervious, Inflow Depth > 4.71" for 10YR event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 4,225 cf
 Outflow = 1.17 cfs @ 12.09 hrs, Volume= 4,225 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.17 cfs @ 12.09 hrs, Volume= 4,225 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.22' @ 12.09 hrs

Flood Elev= 210.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.70'	15.0" Round Culvert L= 173.3' Ke= 0.500 Inlet / Outlet Invert= 206.70' / 204.97' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.14 cfs @ 12.09 hrs HW=207.21' TW=205.66' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.14 cfs @ 3.53 fps)**Summary for Pond D24: DMH #24**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 4.60" for 10YR event
 Inflow = 0.14 cfs @ 12.09 hrs, Volume= 483 cf
 Outflow = 0.14 cfs @ 12.09 hrs, Volume= 483 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.14 cfs @ 12.09 hrs, Volume= 483 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.40' @ 12.09 hrs

Flood Elev= 211.62'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.21'	12.0" Round Culvert L= 140.9' Ke= 0.500 Inlet / Outlet Invert= 208.21' / 207.13' S= 0.0077 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=208.40' TW=207.21' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.13 cfs @ 1.94 fps)**Summary for Pond D25: DMH #25**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 3.77" for 10YR event
 Inflow = 6.13 cfs @ 12.09 hrs, Volume= 20,606 cf
 Outflow = 6.13 cfs @ 12.09 hrs, Volume= 20,606 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.13 cfs @ 12.09 hrs, Volume= 20,606 cf
 Routed to Pond D26 : DMH #26

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.95' @ 12.09 hrs

Flood Elev= 213.11'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	18.0" Round Culvert L= 78.6' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.10' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.98 cfs @ 12.09 hrs HW=209.93' TW=208.94' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 5.98 cfs @ 4.44 fps)**Summary for Pond D26: DMH #26**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 3.77" for 10YR event
 Inflow = 6.13 cfs @ 12.09 hrs, Volume= 20,606 cf
 Outflow = 6.13 cfs @ 12.09 hrs, Volume= 20,606 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.13 cfs @ 12.09 hrs, Volume= 20,606 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.96' @ 12.09 hrs

Flood Elev= 213.71'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.60'	24.0" Round Culvert L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 207.60' / 206.97' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.98 cfs @ 12.09 hrs HW=208.94' TW=208.25' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 5.98 cfs @ 3.79 fps)

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Summary for Pond D27: DMH #27

Inflow Area = 37,809 sf, 68.72% Impervious, Inflow Depth > 3.55" for 10YR event
 Inflow = 3.34 cfs @ 12.09 hrs, Volume= 11,172 cf
 Outflow = 3.34 cfs @ 12.09 hrs, Volume= 11,172 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.34 cfs @ 12.09 hrs, Volume= 11,172 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.25' @ 12.09 hrs

Flood Elev= 217.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.30'	15.0" Round Culvert L= 247.1' Ke= 0.500 Inlet / Outlet Invert= 213.30' / 208.48' S= 0.0195 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.26 cfs @ 12.09 hrs HW=214.24' TW=209.93' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 3.26 cfs @ 3.30 fps)**Summary for Pond D28: DMH #28**

Inflow Area = 20,503 sf, 61.42% Impervious, Inflow Depth > 3.30" for 10YR event
 Inflow = 1.68 cfs @ 12.09 hrs, Volume= 5,633 cf
 Outflow = 1.68 cfs @ 12.09 hrs, Volume= 5,633 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.68 cfs @ 12.09 hrs, Volume= 5,633 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 217.75' @ 12.09 hrs

Flood Elev= 220.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.12'	15.0" Round Culvert L= 189.5' Ke= 0.500 Inlet / Outlet Invert= 217.12' / 213.40' S= 0.0196 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.64 cfs @ 12.09 hrs HW=217.74' TW=214.24' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.64 cfs @ 2.69 fps)**Summary for Pond D29: DMH #29**

Inflow Area = 9,226 sf, 91.86% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.97 cfs @ 12.09 hrs, Volume= 3,364 cf
 Outflow = 0.97 cfs @ 12.09 hrs, Volume= 3,364 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.97 cfs @ 12.09 hrs, Volume= 3,364 cf
 Routed to Pond D28 : DMH #28

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 220.34' @ 12.09 hrs

Flood Elev= 223.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	219.83'	12.0" Round Culvert L= 118.4' Ke= 0.500 Inlet / Outlet Invert= 219.83' / 217.54' S= 0.0193 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.94 cfs @ 12.09 hrs HW=220.33' TW=217.74' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.94 cfs @ 2.40 fps)**Summary for Pond D3: DMH#3**

Inflow Area = 178,722 sf, 29.60% Impervious, Inflow Depth > 2.14" for 10YR event
 Inflow = 6.65 cfs @ 12.18 hrs, Volume= 31,862 cf
 Outflow = 6.65 cfs @ 12.18 hrs, Volume= 31,862 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.65 cfs @ 12.18 hrs, Volume= 31,862 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.03' @ 12.18 hrs

Flood Elev= 215.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	24.0" Round Culvert L= 282.0' Ke= 0.500 Inlet / Outlet Invert= 210.90' / 206.79' S= 0.0146 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.62 cfs @ 12.18 hrs HW=212.03' TW=207.50' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 6.62 cfs @ 3.62 fps)**Summary for Pond D30: DMH #30**

Inflow Area = 3,480 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,369 cf
 Outflow = 0.38 cfs @ 12.09 hrs, Volume= 1,369 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.38 cfs @ 12.09 hrs, Volume= 1,369 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.28' @ 12.09 hrs

Flood Elev= 224.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.92'	12.0" Round Culvert L= 184.2' Ke= 0.500 Inlet / Outlet Invert= 220.92' / 220.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.37 cfs @ 12.09 hrs HW=221.27' TW=220.33' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.37 cfs @ 2.21 fps)

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Summary for Pond D31: DMH#31

Inflow Area = 63,226 sf, 29.53% Impervious, Inflow Depth > 2.13" for 10YR event
 Inflow = 2.84 cfs @ 12.16 hrs, Volume= 11,240 cf
 Outflow = 2.84 cfs @ 12.16 hrs, Volume= 11,240 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.84 cfs @ 12.16 hrs, Volume= 11,240 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 224.80' @ 12.16 hrs

Flood Elev= 227.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	223.94'	15.0" Round Culvert L= 158.7' Ke= 0.500 Inlet / Outlet Invert= 223.94' / 214.45' S= 0.0598 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.80 cfs @ 12.16 hrs HW=224.79' TW=215.31' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.80 cfs @ 3.14 fps)**Summary for Pond D32: DMH#32**

Inflow Area = 74,296 sf, 29.68% Impervious, Inflow Depth > 2.13" for 10YR event
 Inflow = 3.33 cfs @ 12.15 hrs, Volume= 13,198 cf
 Outflow = 3.33 cfs @ 12.15 hrs, Volume= 13,198 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.33 cfs @ 12.15 hrs, Volume= 13,198 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.32' @ 12.15 hrs

Flood Elev= 219.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.25'	15.0" Round Culvert L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 214.25' / 213.64' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.33 cfs @ 12.15 hrs HW=215.32' TW=213.68' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.33 cfs @ 4.00 fps)**Summary for Pond D33: DMH #33**

Inflow Area = 75,312 sf, 76.03% Impervious, Inflow Depth > 3.81" for 10YR event
 Inflow = 7.12 cfs @ 12.09 hrs, Volume= 23,904 cf
 Outflow = 7.12 cfs @ 12.09 hrs, Volume= 23,904 cf, Atten= 0%, Lag= 0.0 min
 Primary = 7.12 cfs @ 12.09 hrs, Volume= 23,904 cf
 Routed to Pond P210 : POCKET WETLAND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.27' @ 12.09 hrs

Flood Elev= 212.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.87'	24.0" Round Culvert L= 39.0' Ke= 0.500 Inlet / Outlet Invert= 206.87' / 206.67' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf

Primary OutFlow Max=6.94 cfs @ 12.09 hrs HW=208.25' TW=203.60' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 6.94 cfs @ 4.22 fps)**Summary for Pond D34: DMH #34**

Inflow Area = 34,553 sf, 94.38% Impervious, Inflow Depth > 4.57" for 10YR event
 Inflow = 3.70 cfs @ 12.09 hrs, Volume= 13,147 cf
 Outflow = 3.70 cfs @ 12.09 hrs, Volume= 13,147 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.70 cfs @ 12.09 hrs, Volume= 13,147 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 197.98' @ 12.09 hrs

Flood Elev= 202.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	196.78'	15.0" Round Culvert L= 51.0' Ke= 0.500 Inlet / Outlet Invert= 196.78' / 196.53' S= 0.0049 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.60 cfs @ 12.09 hrs HW=197.95' TW=196.28' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.60 cfs @ 3.90 fps)**Summary for Pond D4: DMH#4**

Inflow Area = 131,277 sf, 29.96% Impervious, Inflow Depth > 2.15" for 10YR event
 Inflow = 5.38 cfs @ 12.16 hrs, Volume= 23,510 cf
 Outflow = 5.38 cfs @ 12.16 hrs, Volume= 23,510 cf, Atten= 0%, Lag= 0.0 min
 Primary = 5.38 cfs @ 12.16 hrs, Volume= 23,510 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.68' @ 12.16 hrs

Flood Elev= 217.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.68'	24.0" Round Culvert L= 131.1' Ke= 0.500 Inlet / Outlet Invert= 212.68' / 211.04' S= 0.0125 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.33 cfs @ 12.16 hrs HW=213.68' TW=212.03' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 5.33 cfs @ 3.40 fps)

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Summary for Pond D5: DMH #5

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 4.01" for 10YR event
 Inflow = 3.79 cfs @ 12.09 hrs, Volume= 12,742 cf
 Outflow = 3.79 cfs @ 12.09 hrs, Volume= 12,742 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.79 cfs @ 12.09 hrs, Volume= 12,742 cf
 Routed to Pond D6 : DMH #6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.18' @ 12.09 hrs

Flood Elev= 212.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.09'	18.0" Round Culvert L= 183.0' Ke= 0.500 Inlet / Outlet Invert= 209.09' / 208.17' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.69 cfs @ 12.09 hrs HW=210.16' TW=209.09' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 3.69 cfs @ 3.84 fps)**Summary for Pond D6: DMH #6**

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 4.01" for 10YR event
 Inflow = 3.79 cfs @ 12.09 hrs, Volume= 12,742 cf
 Outflow = 3.79 cfs @ 12.09 hrs, Volume= 12,742 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.79 cfs @ 12.09 hrs, Volume= 12,742 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.11' @ 12.09 hrs

Flood Elev= 214.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.07'	18.0" Round Culvert L= 299.7' Ke= 0.500 Inlet / Outlet Invert= 208.07' / 206.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.69 cfs @ 12.09 hrs HW=209.09' TW=207.11' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.69 cfs @ 4.06 fps)**Summary for Pond D7: DMH #7**

Inflow Area = 56,343 sf, 67.42% Impervious, Inflow Depth > 3.86" for 10YR event
 Inflow = 5.45 cfs @ 12.09 hrs, Volume= 18,143 cf
 Outflow = 5.45 cfs @ 12.09 hrs, Volume= 18,143 cf, Atten= 0%, Lag= 0.0 min
 Primary = 5.45 cfs @ 12.09 hrs, Volume= 18,143 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.13' @ 12.09 hrs

Flood Elev= 213.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.97'	24.0" Round Culvert L= 101.8' Ke= 0.500 Inlet / Outlet Invert= 205.97' / 205.46' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.32 cfs @ 12.09 hrs HW=207.11' TW=201.32' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 5.32 cfs @ 4.16 fps)**Summary for Pond D8: DMH #8**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 3.71" for 10YR event
 Inflow = 1.66 cfs @ 12.09 hrs, Volume= 5,527 cf
 Outflow = 1.66 cfs @ 12.09 hrs, Volume= 5,527 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.66 cfs @ 12.09 hrs, Volume= 5,527 cf
 Routed to Pond D9 : DMH #9

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.44' @ 12.09 hrs

Flood Elev= 204.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.57'	12.0" Round Culvert L= 87.7' Ke= 0.500 Inlet / Outlet Invert= 200.57' / 200.13' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.62 cfs @ 12.09 hrs HW=201.42' TW=200.87' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.62 cfs @ 3.05 fps)**Summary for Pond D9: DMH #9**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 3.71" for 10YR event
 Inflow = 1.66 cfs @ 12.09 hrs, Volume= 5,527 cf
 Outflow = 1.66 cfs @ 12.09 hrs, Volume= 5,527 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.66 cfs @ 12.09 hrs, Volume= 5,527 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 200.89' @ 12.09 hrs

Flood Elev= 204.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.03'	12.0" Round Culvert L= 11.9' Ke= 0.500 Inlet / Outlet Invert= 200.03' / 199.97' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.62 cfs @ 12.09 hrs HW=200.87' TW=197.38' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.62 cfs @ 3.10 fps)

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Summary for Pond DE1: DRIP #1

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 974 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 775 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 6.10 hrs, Volume= 92 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 683 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 223.91' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 123.1 min calculated for 775 cf (80% of inflow)
 Center-of-Mass det. time= 47.1 min (820.4 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	221.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.99	323	0.0	0	0
222.00	323	40.0	1	1
224.99	323	40.0	386	388
225.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	224.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.50' / 223.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.10 hrs HW=222.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.26 cfs @ 12.12 hrs HW=223.90' TW=218.01' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.10 fps)

Summary for Pond DE10: DRIP #10

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 888 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 709 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.60 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 625 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.88' @ 12.12 hrs Surf.Area= 290 sf Storage= 220 cf

Plug-Flow detention time= 123.5 min calculated for 709 cf (80% of inflow)

Center-of-Mass det. time= 48.0 min (816.0 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	290	0.0	0	0
212.00	290	40.0	1	1
214.99	290	40.0	347	348
215.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.60 hrs HW=212.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.12 hrs HW=213.88' TW=201.45' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)**Summary for Pond DE11: DRIP #11**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 801 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 5.55 hrs, Volume= 94 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 707 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.91' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 122.2 min calculated for 799 cf (80% of inflow)

Center-of-Mass det. time= 48.1 min (816.1 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.55 hrs HW=211.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=212.90' TW=201.46' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.11 fps)**Summary for Pond DE12: DRIP #12**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.34 cfs @ 12.09 hrs, Volume= 1,168 cf
 Outflow = 0.31 cfs @ 12.12 hrs, Volume= 1,012 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 5.50 hrs, Volume= 109 cf
 Primary = 0.31 cfs @ 12.12 hrs, Volume= 904 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.15' @ 12.12 hrs Surf.Area= 373 sf Storage= 218 cf

Plug-Flow detention time= 97.2 min calculated for 1,010 cf (87% of inflow)

Center-of-Mass det. time= 38.8 min (806.8 - 768.0)

Volume	Invert	Avail.Storage	Storage Description
#1	210.69'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.69	373	0.0	0	0
210.70	373	40.0	1	1
213.69	373	40.0	446	448
213.70	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	213.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 211.70' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 211.70' / 211.65' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 210.69' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.50 hrs HW=210.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.30 cfs @ 12.12 hrs HW=212.14' TW=201.47' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.19 fps)**Summary for Pond DE13: DRIP #13**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 4.49" for 10YR event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 1,533 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,296 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 116 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,181 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.04' @ 12.12 hrs Surf.Area= 383 sf Storage= 314 cf

Plug-Flow detention time= 110.6 min calculated for 1,296 cf (85% of inflow)

Center-of-Mass det. time= 45.4 min (807.6 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	209.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	383	0.0	0	0
210.00	383	40.0	2	2
212.99	383	40.0	458	460
213.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.12 hrs HW=212.03' TW=201.48' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.35 fps)

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Summary for Pond DE14: DRIP #14

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 888 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 709 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 625 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 210.28' @ 12.12 hrs Surf.Area= 290 sf Storage= 220 cf

Plug-Flow detention time= 123.5 min calculated for 709 cf (80% of inflow)
 Center-of-Mass det. time= 48.0 min (816.0 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.39'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.39	290	0.0	0	0
208.40	290	40.0	1	1
211.39	290	40.0	347	348
211.40	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	211.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.90' / 209.85' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=208.40' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.24 cfs @ 12.12 hrs HW=210.28' TW=201.45' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)

Summary for Pond DE15: DRIP #15

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 683 cf
 Outflow = 0.19 cfs @ 12.12 hrs, Volume= 505 cf, Atten= 6%, Lag= 2.0 min
 Discarded = 0.00 cfs @ 5.45 hrs, Volume= 81 cf
 Primary = 0.19 cfs @ 12.12 hrs, Volume= 424 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 209.63' @ 12.12 hrs Surf.Area= 290 sf Storage= 213 cf

Plug-Flow detention time= 139.3 min calculated for 505 cf (74% of inflow)

Center-of-Mass det. time= 53.3 min (826.6 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	290	0.0	0	0
207.80	290	40.0	1	1
210.79	290	40.0	347	348
210.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.30' / 209.25' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.45 hrs HW=207.80' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=209.62' TW=201.47' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.18 cfs @ 1.91 fps)**Summary for Pond DE16: DRIP #16**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 888 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 709 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 625 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.18' @ 12.12 hrs Surf.Area= 290 sf Storage= 220 cf

Plug-Flow detention time= 123.5 min calculated for 709 cf (80% of inflow)

Center-of-Mass det. time= 48.0 min (816.0 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.29	290	0.0	0	0
207.30	290	40.0	1	1
210.29	290	40.0	347	348
210.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.80' / 208.75' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=207.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.12 hrs HW=209.18' TW=201.45' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)**Summary for Pond DE17: DRIP #17**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 3.83" for 10YR event
 Inflow = 0.19 cfs @ 12.09 hrs, Volume= 627 cf
 Outflow = 0.17 cfs @ 12.13 hrs, Volume= 463 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 7.80 hrs, Volume= 69 cf
 Primary = 0.17 cfs @ 12.13 hrs, Volume= 394 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.92' @ 12.13 hrs Surf.Area= 267 sf Storage= 195 cf

Plug-Flow detention time= 136.1 min calculated for 462 cf (74% of inflow)

Center-of-Mass det. time= 50.9 min (841.4 - 790.5)

Volume	Invert	Avail.Storage	Storage Description	
#1	203.09'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
203.09	267	0.0	0	0
203.10	267	40.0	1	1
206.09	267	40.0	319	320
206.10	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	206.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 204.60' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 204.60' / 204.55' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 203.09' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.80 hrs HW=203.12' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.17 cfs @ 12.13 hrs HW=204.91' TW=200.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.17 cfs @ 1.88 fps)**Summary for Pond DE18: DRIP #18**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 3.94" for 10YR event
 Inflow = 0.27 cfs @ 12.09 hrs, Volume= 900 cf
 Outflow = 0.25 cfs @ 12.12 hrs, Volume= 701 cf, Atten= 7%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 6.30 hrs, Volume= 86 cf
 Primary = 0.25 cfs @ 12.12 hrs, Volume= 615 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.69' @ 12.12 hrs Surf.Area= 323 sf Storage= 246 cf

Plug-Flow detention time= 125.4 min calculated for 701 cf (78% of inflow)

Center-of-Mass det. time= 46.3 min (832.9 - 786.6)

Volume	Invert	Avail.Storage	Storage Description	
#1	204.79'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.79	323	0.0	0	0
204.80	323	40.0	1	1
207.79	323	40.0	386	388
207.80	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	207.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.30' / 206.25' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	204.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.30 hrs HW=204.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.25 cfs @ 12.12 hrs HW=206.69' TW=200.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.25 cfs @ 2.07 fps)

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Summary for Pond DE19: DRIP #19

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 3.94" for 10YR event
 Inflow = 0.24 cfs @ 12.09 hrs, Volume= 799 cf
 Outflow = 0.23 cfs @ 12.12 hrs, Volume= 621 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 7.30 hrs, Volume= 77 cf
 Primary = 0.23 cfs @ 12.12 hrs, Volume= 544 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 207.47' @ 12.12 hrs Surf.Area= 290 sf Storage= 218 cf

Plug-Flow detention time= 124.9 min calculated for 620 cf (78% of inflow)
 Center-of-Mass det. time= 46.3 min (832.9 - 786.6)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.59	290	0.0	0	0
205.60	290	40.0	1	1
208.59	290	40.0	347	348
208.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.10' / 207.05' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.30 hrs HW=205.62' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.22 cfs @ 12.12 hrs HW=207.46' TW=200.07' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.22 cfs @ 2.01 fps)

Summary for Pond DE2: DRIP #2

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 4.05" for 10YR event
 Inflow = 0.19 cfs @ 12.09 hrs, Volume= 648 cf
 Outflow = 0.18 cfs @ 12.12 hrs, Volume= 505 cf, Atten= 7%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 6.40 hrs, Volume= 78 cf
 Primary = 0.18 cfs @ 12.12 hrs, Volume= 427 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 223.32' @ 12.12 hrs Surf.Area= 290 sf Storage= 178 cf

Plug-Flow detention time= 124.8 min calculated for 505 cf (78% of inflow)

Center-of-Mass det. time= 45.8 min (828.3 - 782.5)

Volume	Invert	Avail.Storage	Storage Description	
#1	221.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.79	290	0.0	0	0
221.80	290	40.0	1	1
224.79	290	40.0	347	348
224.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	224.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.00' / 222.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.40 hrs HW=221.80' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=223.32' TW=218.01' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.18 cfs @ 1.89 fps)**Summary for Pond DE20: DRIP #20**

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 3.83" for 10YR event
 Inflow = 0.19 cfs @ 12.09 hrs, Volume= 614 cf
 Outflow = 0.16 cfs @ 12.15 hrs, Volume= 436 cf, Atten= 14%, Lag= 3.7 min
 Discarded = 0.00 cfs @ 7.00 hrs, Volume= 74 cf
 Primary = 0.16 cfs @ 12.15 hrs, Volume= 362 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.10' @ 12.15 hrs Surf.Area= 290 sf Storage= 210 cf

Plug-Flow detention time= 144.8 min calculated for 435 cf (71% of inflow)

Center-of-Mass det. time= 55.5 min (846.0 - 790.5)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.29	290	0.0	0	0
206.30	290	40.0	1	1
209.29	290	40.0	347	348
209.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	209.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.75' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.00 hrs HW=206.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.16 cfs @ 12.15 hrs HW=208.10' TW=200.08' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.16 cfs @ 1.85 fps)**Summary for Pond DE21: DRIP #21**

Inflow Area = 1,961 sf, 86.33% Impervious, Inflow Depth > 3.94" for 10YR event
 Inflow = 0.19 cfs @ 12.09 hrs, Volume= 644 cf
 Outflow = 0.18 cfs @ 12.12 hrs, Volume= 480 cf, Atten= 6%, Lag= 2.0 min
 Discarded = 0.00 cfs @ 7.55 hrs, Volume= 71 cf
 Primary = 0.18 cfs @ 12.12 hrs, Volume= 409 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.53' @ 12.12 hrs Surf.Area= 268 sf Storage= 197 cf

Plug-Flow detention time= 134.6 min calculated for 479 cf (74% of inflow)

Center-of-Mass det. time= 50.5 min (837.1 - 786.6)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.69'	324 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.69	268	0.0	0	0
206.70	268	40.0	1	1
209.69	268	40.0	321	322
209.70	268	100.0	3	324

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.20' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 208.20' / 208.15' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 206.69' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.55 hrs HW=206.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=208.52' TW=200.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.18 cfs @ 1.89 fps)**Summary for Pond DE22: DRIP #22**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.34 cfs @ 12.09 hrs, Volume= 1,168 cf
 Outflow = 0.31 cfs @ 12.12 hrs, Volume= 938 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 5.50 hrs, Volume= 109 cf
 Primary = 0.31 cfs @ 12.12 hrs, Volume= 829 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.45' @ 12.12 hrs Surf.Area= 373 sf Storage= 292 cf

Plug-Flow detention time= 122.0 min calculated for 936 cf (80% of inflow)

Center-of-Mass det. time= 48.3 min (816.3 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.49'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.49	373	0.0	0	0
207.50	373	40.0	1	1
210.49	373	40.0	446	448
210.50	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.50 hrs HW=207.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.30 cfs @ 12.12 hrs HW=209.44' TW=200.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.19 fps)

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Summary for Pond DE23: DRIP #23

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 851 cf
 Outflow = 0.24 cfs @ 12.11 hrs, Volume= 684 cf, Atten= 4%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 5.50 hrs, Volume= 79 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 605 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.86' @ 12.11 hrs Surf.Area= 271 sf Storage= 203 cf

Plug-Flow detention time= 120.7 min calculated for 683 cf (80% of inflow)
 Center-of-Mass det. time= 47.2 min (815.2 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	271	0.0	0	0
208.00	271	40.0	1	1
210.99	271	40.0	324	325
211.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.50'	6.0" Round Culvert L= 10.0' Ke= 0.200 Inlet / Outlet Invert= 209.50' / 209.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.50 hrs HW=208.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.23 cfs @ 12.11 hrs HW=209.86' TW=200.07' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.23 cfs @ 2.14 fps)

Summary for Pond DE24: DRIP #24

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 736 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 5.55 hrs, Volume= 94 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 642 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 211.01' @ 12.12 hrs Surf.Area= 323 sf Storage= 313 cf

Plug-Flow detention time= 144.1 min calculated for 736 cf (74% of inflow)

Center-of-Mass det. time= 57.3 min (825.3 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.59'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.59	323	0.0	0	0
208.60	323	40.0	1	1
211.59	323	40.0	386	388
211.60	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.60'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.60' / 210.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.55 hrs HW=208.62' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=211.00' TW=202.03' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.26 cfs @ 2.11 fps)**Summary for Pond DE25: DRIP #25**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 801 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 94 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 707 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.21' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 122.2 min calculated for 799 cf (80% of inflow)

Center-of-Mass det. time= 48.1 min (816.1 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.29'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.29	323	0.0	0	0
209.30	323	40.0	1	1
212.29	323	40.0	386	388
212.30	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	212.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.80' / 210.75' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=209.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=211.20' TW=202.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.11 fps)**Summary for Pond DE26: DRIP #26**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 851 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 684 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.50 hrs, Volume= 79 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 605 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.88' @ 12.11 hrs Surf.Area= 271 sf Storage= 204 cf

Plug-Flow detention time= 120.8 min calculated for 683 cf (80% of inflow)

Center-of-Mass det. time= 47.3 min (815.3 - 768.0)

Volume	Invert	Avail.Storage	Storage Description
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 211.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 209.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.50 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.23 cfs @ 12.11 hrs HW=211.87' TW=202.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.23 cfs @ 2.03 fps)**Summary for Pond DE27: DRIP #27**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 888 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 825 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.20 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 741 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.48' @ 12.12 hrs Surf.Area= 290 sf Storage= 104 cf

Plug-Flow detention time= 63.9 min calculated for 825 cf (93% of inflow)

Center-of-Mass det. time= 26.3 min (794.3 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.59'	235 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	290	0.0	0	0
211.60	290	40.0	1	1
213.59	290	40.0	231	232
213.60	290	100.0	3	235

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.20 hrs HW=211.61' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.12 hrs HW=212.48' TW=202.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)

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Summary for Pond DE28: DRIP #28

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 888 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 709 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.60 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 625 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.38' @ 12.12 hrs Surf.Area= 290 sf Storage= 220 cf

Plug-Flow detention time= 123.5 min calculated for 709 cf (80% of inflow)
 Center-of-Mass det. time= 48.0 min (816.0 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.49	290	0.0	0	0
211.50	290	40.0	1	1
214.49	290	40.0	347	348
214.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.60 hrs HW=211.52' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.24 cfs @ 12.12 hrs HW=213.38' TW=202.03' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)

Summary for Pond DE29: DRIP #29

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 851 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 749 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.50 hrs, Volume= 79 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 670 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.38' @ 12.11 hrs Surf.Area= 271 sf Storage= 139 cf

Plug-Flow detention time= 90.1 min calculated for 748 cf (88% of inflow)

Center-of-Mass det. time= 35.7 min (803.7 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.09'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.09	271	0.0	0	0
212.10	271	40.0	1	1
215.09	271	40.0	324	325
215.10	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	215.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.09'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.50 hrs HW=212.12' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.23 cfs @ 12.11 hrs HW=213.37' TW=204.02' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.23 cfs @ 2.03 fps)**Summary for Pond DE3: DRIP #3**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.24 cfs @ 12.09 hrs, Volume= 829 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 663 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 77 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 585 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 222.67' @ 12.12 hrs Surf.Area= 271 sf Storage= 204 cf

Plug-Flow detention time= 120.7 min calculated for 661 cf (80% of inflow)

Center-of-Mass det. time= 46.3 min (819.6 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	220.79'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
220.79	271	0.0	0	0
220.80	271	40.0	1	1
223.79	271	40.0	324	325
223.80	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	223.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	222.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 222.30' / 222.25' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	220.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=220.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.22 cfs @ 12.11 hrs HW=222.67' TW=218.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.22 cfs @ 2.02 fps)**Summary for Pond DE30: DRIP #30**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 859 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 5.55 hrs, Volume= 94 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 765 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.66' @ 12.12 hrs Surf.Area= 323 sf Storage= 190 cf

Plug-Flow detention time= 100.1 min calculated for 857 cf (86% of inflow)

Center-of-Mass det. time= 39.6 min (807.6 - 768.0)

Volume	Invert	Avail.Storage	Storage Description
#1	212.19'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	323	0.0	0	0
212.20	323	40.0	1	1
215.19	323	40.0	386	388
215.20	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	215.10'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 213.25' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 213.25' / 213.20' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 212.19' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.55 hrs HW=212.22' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=213.65' TW=204.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.11 fps)**Summary for Pond DE31: DRIP #31**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 801 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 5.55 hrs, Volume= 94 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 707 cf
 Routed to Reach 8R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.91' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 122.2 min calculated for 799 cf (80% of inflow)

Center-of-Mass det. time= 48.1 min (816.1 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.55 hrs HW=212.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=213.90' TW=204.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.11 fps)

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Summary for Pond DE32: DRIP #32

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 851 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 684 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.35 hrs, Volume= 79 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 605 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.28' @ 12.11 hrs Surf.Area= 271 sf Storage= 204 cf

Plug-Flow detention time= 120.8 min calculated for 683 cf (80% of inflow)
 Center-of-Mass det. time= 47.3 min (815.3 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.39'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.39	271	0.0	0	0
211.40	271	40.0	1	1
214.39	271	40.0	324	325
214.40	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.90' / 212.85' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.35 hrs HW=211.40' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.23 cfs @ 12.11 hrs HW=213.27' TW=207.03' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.23 cfs @ 2.03 fps)

Summary for Pond DE33: DRIP #33

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 683 cf
 Outflow = 0.19 cfs @ 12.12 hrs, Volume= 505 cf, Atten= 6%, Lag= 2.0 min
 Discarded = 0.00 cfs @ 6.70 hrs, Volume= 81 cf
 Primary = 0.19 cfs @ 12.12 hrs, Volume= 424 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 212.43' @ 12.12 hrs Surf.Area= 290 sf Storage= 213 cf

Plug-Flow detention time= 139.3 min calculated for 505 cf (74% of inflow)

Center-of-Mass det. time= 53.3 min (826.6 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.59	290	0.0	0	0
210.60	290	40.0	1	1
213.59	290	40.0	347	348
213.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.70 hrs HW=210.62' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=212.42' TW=207.03' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.18 cfs @ 1.91 fps)**Summary for Pond DE34: DRIP #34**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,495 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,258 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 4.00 hrs, Volume= 113 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,145 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.33' @ 12.12 hrs Surf.Area= 383 sf Storage= 313 cf

Plug-Flow detention time= 109.0 min calculated for 1,255 cf (84% of inflow)

Center-of-Mass det. time= 43.9 min (811.9 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.29'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.29	383	0.0	0	0
210.30	383	40.0	2	2
213.29	383	40.0	458	460
213.30	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	213.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.80' / 211.75' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.00 hrs HW=210.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.12 hrs HW=212.32' TW=204.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.35 fps)**Summary for Pond DE35: DRIP #35**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,495 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,258 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 5.05 hrs, Volume= 113 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,145 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.03' @ 12.12 hrs Surf.Area= 383 sf Storage= 313 cf

Plug-Flow detention time= 109.0 min calculated for 1,255 cf (84% of inflow)

Center-of-Mass det. time= 43.9 min (811.9 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	383	0.0	0	0
209.00	383	40.0	2	2
211.99	383	40.0	458	460
212.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 210.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 208.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.05 hrs HW=209.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.12 hrs HW=211.02' TW=204.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.35 fps)**Summary for Pond DE36: DRIP #36**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.34 cfs @ 12.09 hrs, Volume= 1,168 cf
 Outflow = 0.31 cfs @ 12.12 hrs, Volume= 1,012 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 5.50 hrs, Volume= 109 cf
 Primary = 0.31 cfs @ 12.12 hrs, Volume= 904 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.45' @ 12.12 hrs Surf.Area= 373 sf Storage= 218 cf

Plug-Flow detention time= 97.2 min calculated for 1,010 cf (87% of inflow)

Center-of-Mass det. time= 38.8 min (806.8 - 768.0)

Volume	Invert	Avail.Storage	Storage Description
#1	206.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	373	0.0	0	0
207.00	373	40.0	1	1
209.99	373	40.0	446	448
210.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.00' / 207.95' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.50 hrs HW=207.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.30 cfs @ 12.12 hrs HW=208.44' TW=199.14' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.19 fps)

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Summary for Pond DE37: DRIP #37

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,138 cf
 Outflow = 0.31 cfs @ 12.12 hrs, Volume= 983 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 6.10 hrs, Volume= 106 cf
 Primary = 0.31 cfs @ 12.12 hrs, Volume= 876 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.45' @ 12.12 hrs Surf.Area= 373 sf Storage= 217 cf

Plug-Flow detention time= 97.8 min calculated for 983 cf (86% of inflow)
 Center-of-Mass det. time= 37.8 min (811.1 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	373	0.0	0	0
208.00	373	40.0	1	1
210.99	373	40.0	446	448
211.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.10 hrs HW=208.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.30 cfs @ 12.12 hrs HW=209.44' TW=199.15' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.19 fps)

Summary for Pond DE38: DRIP #39

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 974 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 775 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 6.10 hrs, Volume= 92 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 683 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.91' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 123.1 min calculated for 775 cf (80% of inflow)

Center-of-Mass det. time= 47.1 min (820.4 - 773.3)

Volume	Invert	Avail.Storage	Storage Description
#1	208.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	323	0.0	0	0
209.00	323	40.0	1	1
211.99	323	40.0	386	388
212.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.10 hrs HW=209.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=210.90' TW=199.13' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.26 cfs @ 2.10 fps)**Summary for Pond DE39: DRIP #39**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.24 cfs @ 12.09 hrs, Volume= 829 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 663 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 6.05 hrs, Volume= 77 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 585 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.87' @ 12.12 hrs Surf.Area= 271 sf Storage= 204 cf

Plug-Flow detention time= 120.7 min calculated for 661 cf (80% of inflow)

Center-of-Mass det. time= 46.3 min (819.6 - 773.3)

Volume	Invert	Avail.Storage	Storage Description
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.05 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.22 cfs @ 12.11 hrs HW=211.87' TW=199.11' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.22 cfs @ 2.02 fps)**Summary for Pond DE4: DRIP #4**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 974 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 775 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 6.10 hrs, Volume= 92 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 683 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.91' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 123.1 min calculated for 775 cf (80% of inflow)

Center-of-Mass det. time= 47.1 min (820.4 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	218.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.99	323	0.0	0	0
219.00	323	40.0	1	1
221.99	323	40.0	386	388
222.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	221.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 220.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 220.50' / 220.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 218.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.10 hrs HW=219.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=220.90' TW=218.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.10 fps)**Summary for Pond DE40: DRIP #40**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 974 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 775 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 6.10 hrs, Volume= 92 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 683 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.91' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 123.1 min calculated for 775 cf (80% of inflow)

Center-of-Mass det. time= 47.1 min (820.4 - 773.3)

Volume	Invert	Avail.Storage	Storage Description
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.10 hrs HW=211.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=212.90' TW=199.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.10 fps)

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Summary for Pond DE41: DRIP #41

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 974 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 775 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 6.10 hrs, Volume= 92 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 683 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.91' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 123.1 min calculated for 775 cf (80% of inflow)
 Center-of-Mass det. time= 47.1 min (820.4 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.10 hrs HW=212.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.26 cfs @ 12.12 hrs HW=213.90' TW=199.13' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.10 fps)

Summary for Pond DE42: DRIP #42

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 679 cf
 Outflow = 0.19 cfs @ 12.12 hrs, Volume= 515 cf, Atten= 5%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 6.90 hrs, Volume= 74 cf
 Primary = 0.19 cfs @ 12.12 hrs, Volume= 442 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 214.83' @ 12.12 hrs Surf.Area= 267 sf Storage= 197 cf

Plug-Flow detention time= 132.6 min calculated for 515 cf (76% of inflow)

Center-of-Mass det. time= 49.9 min (828.0 - 778.1)

Volume	Invert	Avail.Storage	Storage Description
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.90 hrs HW=213.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=214.83' TW=199.12' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.18 cfs @ 1.92 fps)**Summary for Pond DE43: DRIP #43**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 679 cf
 Outflow = 0.19 cfs @ 12.12 hrs, Volume= 515 cf, Atten= 5%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 6.90 hrs, Volume= 74 cf
 Primary = 0.19 cfs @ 12.12 hrs, Volume= 442 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.83' @ 12.12 hrs Surf.Area= 267 sf Storage= 197 cf

Plug-Flow detention time= 132.6 min calculated for 515 cf (76% of inflow)

Center-of-Mass det. time= 49.9 min (828.0 - 778.1)

Volume	Invert	Avail.Storage	Storage Description
#1	213.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.99	267	0.0	0	0
214.00	267	40.0	1	1
216.99	267	40.0	319	320
217.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	216.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	215.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 215.50' / 215.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	213.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.90 hrs HW=214.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=215.83' TW=199.12' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.18 cfs @ 1.92 fps)**Summary for Pond DE44: DRIP #44**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 679 cf
 Outflow = 0.19 cfs @ 12.12 hrs, Volume= 515 cf, Atten= 5%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 6.90 hrs, Volume= 74 cf
 Primary = 0.19 cfs @ 12.12 hrs, Volume= 442 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 217.83' @ 12.12 hrs Surf.Area= 267 sf Storage= 197 cf

Plug-Flow detention time= 132.6 min calculated for 515 cf (76% of inflow)

Center-of-Mass det. time= 49.9 min (828.0 - 778.1)

Volume	Invert	Avail.Storage	Storage Description
#1	215.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
215.99	267	0.0	0	0
216.00	267	40.0	1	1
218.99	267	40.0	319	320
219.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	218.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 217.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 217.50' / 217.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 215.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.90 hrs HW=216.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=217.83' TW=199.12' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.18 cfs @ 1.92 fps)**Summary for Pond DE45: DRIP #45**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.24 cfs @ 12.09 hrs, Volume= 829 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 663 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 6.05 hrs, Volume= 77 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 585 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.87' @ 12.12 hrs Surf.Area= 271 sf Storage= 204 cf

Plug-Flow detention time= 120.7 min calculated for 661 cf (80% of inflow)

Center-of-Mass det. time= 46.3 min (819.6 - 773.3)

Volume	Invert	Avail.Storage	Storage Description
#1	216.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	271	0.0	0	0
217.00	271	40.0	1	1
219.99	271	40.0	324	325
220.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	218.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 218.50' / 218.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	216.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.05 hrs HW=217.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.22 cfs @ 12.11 hrs HW=218.87' TW=199.11' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.22 cfs @ 2.02 fps)

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Summary for Pond DE47: DRIP #47

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,138 cf
 Outflow = 0.31 cfs @ 12.12 hrs, Volume= 983 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 6.10 hrs, Volume= 106 cf
 Primary = 0.31 cfs @ 12.12 hrs, Volume= 876 cf
 Routed to Reach 16R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 218.45' @ 12.12 hrs Surf.Area= 373 sf Storage= 217 cf

Plug-Flow detention time= 97.8 min calculated for 983 cf (86% of inflow)
 Center-of-Mass det. time= 37.8 min (811.1 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	216.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	373	0.0	0	0
217.00	373	40.0	1	1
219.99	373	40.0	446	448
220.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	218.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 218.00' / 217.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	216.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.10 hrs HW=217.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.30 cfs @ 12.12 hrs HW=218.44' TW=216.02' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.19 fps)

Summary for Pond DE48: DRIP #48

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 4.05" for 10YR event
 Inflow = 0.19 cfs @ 12.09 hrs, Volume= 648 cf
 Outflow = 0.18 cfs @ 12.13 hrs, Volume= 470 cf, Atten= 10%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 7.40 hrs, Volume= 78 cf
 Primary = 0.17 cfs @ 12.13 hrs, Volume= 393 cf
 Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 216.82' @ 12.13 hrs Surf.Area= 290 sf Storage= 212 cf

Plug-Flow detention time= 140.8 min calculated for 469 cf (72% of inflow)

Center-of-Mass det. time= 53.8 min (836.3 - 782.5)

Volume	Invert	Avail.Storage	Storage Description	
#1	214.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
214.99	290	0.0	0	0
215.00	290	40.0	1	1
217.99	290	40.0	347	348
218.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	217.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	216.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 216.50' / 216.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	214.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 7.40 hrs HW=215.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.17 cfs @ 12.13 hrs HW=216.81' TW=208.59' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.17 cfs @ 1.88 fps)**Summary for Pond DE49: DRIP #49**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 4.16" for 10YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 679 cf
 Outflow = 0.19 cfs @ 12.12 hrs, Volume= 515 cf, Atten= 5%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 6.90 hrs, Volume= 74 cf
 Primary = 0.19 cfs @ 12.12 hrs, Volume= 442 cf
 Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.83' @ 12.12 hrs Surf.Area= 267 sf Storage= 197 cf

Plug-Flow detention time= 132.6 min calculated for 515 cf (76% of inflow)

Center-of-Mass det. time= 49.9 min (828.0 - 778.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.90 hrs HW=213.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.18 cfs @ 12.12 hrs HW=214.83' TW=208.59' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.18 cfs @ 1.92 fps)**Summary for Pond DE5: DRIP #5**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.24 cfs @ 12.09 hrs, Volume= 829 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 663 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 6.05 hrs, Volume= 77 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 585 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.47' @ 12.12 hrs Surf.Area= 271 sf Storage= 204 cf

Plug-Flow detention time= 120.7 min calculated for 661 cf (80% of inflow)

Center-of-Mass det. time= 46.3 min (819.6 - 773.3)

Volume	Invert	Avail.Storage	Storage Description
#1	218.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.59	271	0.0	0	0
218.60	271	40.0	1	1
221.59	271	40.0	324	325
221.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	221.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 220.10' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 220.10' / 220.05' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 218.59' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.05 hrs HW=218.62' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.22 cfs @ 12.11 hrs HW=220.47' TW=218.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.22 cfs @ 2.02 fps)**Summary for Pond DE61: DRIP #61**

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.62 cfs @ 12.09 hrs, Volume= 2,107 cf
 Outflow = 0.49 cfs @ 12.15 hrs, Volume= 1,959 cf, Atten= 20%, Lag= 3.7 min
 Discarded = 0.00 cfs @ 5.60 hrs, Volume= 190 cf
 Primary = 0.49 cfs @ 12.15 hrs, Volume= 1,769 cf
 Routed to Pond P210 : POCKET WETLAND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.37' @ 12.15 hrs Surf.Area= 665 sf Storage= 314 cf

Plug-Flow detention time= 65.3 min calculated for 1,959 cf (93% of inflow)

Center-of-Mass det. time= 28.0 min (801.3 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.60 hrs HW=212.21' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.15 hrs HW=213.37' TW=203.83' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.49 fps)

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Summary for Pond DE62: DRIP #62

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 4.27" for 10YR event
 Inflow = 0.62 cfs @ 12.09 hrs, Volume= 2,107 cf
 Outflow = 0.49 cfs @ 12.15 hrs, Volume= 1,959 cf, Atten= 20%, Lag= 3.7 min
 Discarded = 0.00 cfs @ 5.60 hrs, Volume= 190 cf
 Primary = 0.49 cfs @ 12.15 hrs, Volume= 1,769 cf
 Routed to Reach 13R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.37' @ 12.15 hrs Surf.Area= 665 sf Storage= 314 cf

Plug-Flow detention time= 65.3 min calculated for 1,959 cf (93% of inflow)
 Center-of-Mass det. time= 28.0 min (801.3 - 773.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.60 hrs HW=212.21' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.49 cfs @ 12.15 hrs HW=213.37' TW=206.02' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.49 fps)

Summary for Pond DE63: DRIP #63

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.36 cfs @ 12.09 hrs, Volume= 1,248 cf
 Outflow = 0.33 cfs @ 12.12 hrs, Volume= 1,160 cf, Atten= 8%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 5.15 hrs, Volume= 118 cf
 Primary = 0.33 cfs @ 12.12 hrs, Volume= 1,043 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.97' @ 12.12 hrs Surf.Area= 404 sf Storage= 158 cf

Plug-Flow detention time= 64.3 min calculated for 1,158 cf (93% of inflow)

Center-of-Mass det. time= 27.2 min (795.2 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	404	0.0	0	0
207.00	404	40.0	2	2
208.99	404	40.0	322	323
209.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 207.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.15 hrs HW=207.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.32 cfs @ 12.12 hrs HW=207.96' TW=202.11' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.32 cfs @ 2.23 fps)**Summary for Pond DE64: DRIP #64**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf
 Outflow = 0.40 cfs @ 12.13 hrs, Volume= 1,451 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 5.00 hrs, Volume= 137 cf
 Primary = 0.40 cfs @ 12.13 hrs, Volume= 1,313 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.04' @ 12.13 hrs Surf.Area= 470 sf Storage= 197 cf

Plug-Flow detention time= 62.3 min calculated for 1,448 cf (93% of inflow)

Center-of-Mass det. time= 26.9 min (794.9 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	204.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.99	470	0.0	0	0
205.00	470	40.0	2	2
206.99	470	40.0	374	376
207.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	206.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	205.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 205.50' / 205.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	204.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.00 hrs HW=205.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.13 hrs HW=206.03' TW=202.11' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.36 fps)**Summary for Pond DE65: DRIP #65**

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.36 cfs @ 12.09 hrs, Volume= 1,248 cf
 Outflow = 0.33 cfs @ 12.12 hrs, Volume= 1,160 cf, Atten= 8%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 5.15 hrs, Volume= 118 cf
 Primary = 0.33 cfs @ 12.12 hrs, Volume= 1,043 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.97' @ 12.12 hrs Surf.Area= 404 sf Storage= 158 cf

Plug-Flow detention time= 64.3 min calculated for 1,158 cf (93% of inflow)

Center-of-Mass det. time= 27.2 min (795.2 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.99	404	0.0	0	0
206.00	404	40.0	2	2
207.99	404	40.0	322	323
208.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	207.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 206.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 206.50' / 206.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 205.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.15 hrs HW=206.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.32 cfs @ 12.12 hrs HW=206.96' TW=202.11' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.32 cfs @ 2.23 fps)**Summary for Pond DE66: DRIP #66**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf
 Outflow = 0.40 cfs @ 12.13 hrs, Volume= 1,451 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 4.30 hrs, Volume= 137 cf
 Primary = 0.40 cfs @ 12.13 hrs, Volume= 1,313 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.84' @ 12.13 hrs Surf.Area= 470 sf Storage= 197 cf

Plug-Flow detention time= 62.3 min calculated for 1,448 cf (93% of inflow)

Center-of-Mass det. time= 26.9 min (794.9 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.79'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	470	0.0	0	0
207.80	470	40.0	2	2
209.79	470	40.0	374	376
209.80	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.70'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.30' / 208.25' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.30 hrs HW=207.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.13 hrs HW=208.83' TW=202.11' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.36 fps)

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Summary for Pond DE67: DRIP #67

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf
 Outflow = 0.40 cfs @ 12.13 hrs, Volume= 1,451 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 5.00 hrs, Volume= 137 cf
 Primary = 0.40 cfs @ 12.13 hrs, Volume= 1,313 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.04' @ 12.13 hrs Surf.Area= 470 sf Storage= 197 cf

Plug-Flow detention time= 62.3 min calculated for 1,448 cf (93% of inflow)
 Center-of-Mass det. time= 26.9 min (794.9 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	470	0.0	0	0
208.00	470	40.0	2	2
209.99	470	40.0	374	376
210.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.00 hrs HW=208.01' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.39 cfs @ 12.13 hrs HW=209.03' TW=202.11' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.36 fps)

Summary for Pond DE68: DRIP #68

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,162 cf
 Outflow = 0.53 cfs @ 12.14 hrs, Volume= 2,017 cf, Atten= 15%, Lag= 3.2 min
 Discarded = 0.00 cfs @ 5.05 hrs, Volume= 194 cf
 Primary = 0.53 cfs @ 12.14 hrs, Volume= 1,823 cf
 Routed to Pond OCS4 : OCS#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.06' @ 12.14 hrs Surf.Area= 665 sf Storage= 285 cf

Plug-Flow detention time= 63.1 min calculated for 2,017 cf (93% of inflow)

Center-of-Mass det. time= 27.0 min (795.0 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	665	0.0	0	0
207.00	665	40.0	3	3
208.99	665	40.0	529	532
209.00	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 206.00' S= 0.0750 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.05 hrs HW=207.01' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.52 cfs @ 12.14 hrs HW=208.06' TW=204.36' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Inlet Controls 0.52 cfs @ 2.66 fps)**Summary for Pond DE69: DRIP #69**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf
 Outflow = 0.40 cfs @ 12.13 hrs, Volume= 1,451 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 5.00 hrs, Volume= 137 cf
 Primary = 0.40 cfs @ 12.13 hrs, Volume= 1,313 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.54' @ 12.13 hrs Surf.Area= 470 sf Storage= 197 cf

Plug-Flow detention time= 62.3 min calculated for 1,448 cf (93% of inflow)

Center-of-Mass det. time= 26.9 min (794.9 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.49'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.49	470	0.0	0	0
205.50	470	40.0	2	2
207.49	470	40.0	374	376
207.50	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.00' / 205.95' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.00 hrs HW=205.51' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.13 hrs HW=206.53' TW=201.51' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.36 fps)**Summary for Pond DE7: DRIP #7**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 888 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 709 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.60 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 625 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.38' @ 12.12 hrs Surf.Area= 290 sf Storage= 220 cf

Plug-Flow detention time= 123.5 min calculated for 709 cf (80% of inflow)

Center-of-Mass det. time= 48.0 min (816.0 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.49	290	0.0	0	0
210.50	290	40.0	1	1
213.49	290	40.0	347	348
213.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 212.00' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 212.00' / 211.95' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 210.49' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.60 hrs HW=210.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.12 hrs HW=212.38' TW=211.53' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)**Summary for Pond DE70: DRIP #70**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.45 cfs @ 12.09 hrs, Volume= 1,553 cf
 Outflow = 0.40 cfs @ 12.13 hrs, Volume= 1,451 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 4.30 hrs, Volume= 137 cf
 Primary = 0.40 cfs @ 12.13 hrs, Volume= 1,313 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.94' @ 12.13 hrs Surf.Area= 470 sf Storage= 197 cf

Plug-Flow detention time= 62.3 min calculated for 1,448 cf (93% of inflow)

Center-of-Mass det. time= 26.9 min (794.9 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.89'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.89	470	0.0	0	0
205.90	470	40.0	2	2
207.89	470	40.0	374	376
207.90	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.40'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.40' / 206.35' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.89'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.30 hrs HW=205.90' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.13 hrs HW=206.93' TW=201.51' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.36 fps)

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Summary for Pond DE71: DRIP #71

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,162 cf
 Outflow = 0.50 cfs @ 12.15 hrs, Volume= 2,014 cf, Atten= 20%, Lag= 3.7 min
 Discarded = 0.00 cfs @ 5.45 hrs, Volume= 194 cf
 Primary = 0.50 cfs @ 12.15 hrs, Volume= 1,820 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 207.68' @ 12.15 hrs Surf.Area= 665 sf Storage= 317 cf

Plug-Flow detention time= 65.4 min calculated for 2,014 cf (93% of inflow)
 Center-of-Mass det. time= 28.7 min (796.7 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.49'	805 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.49	665	0.0	0	0
206.50	665	40.0	3	3
209.49	665	40.0	795	798
209.50	665	100.0	7	805

Device	Routing	Invert	Outlet Devices
#1	Primary	209.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.00' / 206.95' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.45 hrs HW=206.52' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.50 cfs @ 12.15 hrs HW=207.68' TW=201.60' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.50 cfs @ 2.54 fps)

Summary for Pond DE8: DRIP #8

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 851 cf
 Outflow = 0.23 cfs @ 12.11 hrs, Volume= 684 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.50 hrs, Volume= 79 cf
 Primary = 0.23 cfs @ 12.11 hrs, Volume= 605 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.48' @ 12.11 hrs Surf.Area= 271 sf Storage= 204 cf

Plug-Flow detention time= 120.8 min calculated for 683 cf (80% of inflow)

Center-of-Mass det. time= 47.3 min (815.3 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	271	0.0	0	0
211.60	271	40.0	1	1
214.59	271	40.0	324	325
214.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.10' / 213.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.50 hrs HW=211.62' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.23 cfs @ 12.11 hrs HW=213.47' TW=211.53' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.23 cfs @ 2.03 fps)**Summary for Pond DE9: DRIP #9**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 4.38" for 10YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,000 cf
 Outflow = 0.27 cfs @ 12.12 hrs, Volume= 801 cf, Atten= 6%, Lag= 1.9 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 94 cf
 Primary = 0.27 cfs @ 12.12 hrs, Volume= 707 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.81' @ 12.12 hrs Surf.Area= 323 sf Storage= 248 cf

Plug-Flow detention time= 122.2 min calculated for 799 cf (80% of inflow)

Center-of-Mass det. time= 48.1 min (816.1 - 768.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.89'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.89	323	0.0	0	0
211.90	323	40.0	1	1
214.89	323	40.0	386	388
214.90	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.80'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.40'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.40' / 213.35' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.89'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=211.90' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.26 cfs @ 12.12 hrs HW=213.80' TW=211.53' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.26 cfs @ 2.11 fps)**Summary for Pond DECH: DRIP #CH**

Inflow Area = 6,087 sf, 100.00% Impervious, Inflow Depth > 4.72" for 10YR event
 Inflow = 0.66 cfs @ 12.09 hrs, Volume= 2,394 cf
 Outflow = 0.41 cfs @ 12.19 hrs, Volume= 2,394 cf, Atten= 37%, Lag= 6.4 min
 Discarded = 0.04 cfs @ 10.65 hrs, Volume= 1,488 cf
 Primary = 0.38 cfs @ 12.19 hrs, Volume= 906 cf
 Routed to Pond CB18 : CB #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.48' @ 12.19 hrs Surf.Area= 636 sf Storage= 379 cf

Plug-Flow detention time= 19.7 min calculated for 2,394 cf (100% of inflow)

Center-of-Mass det. time= 19.6 min (767.3 - 747.7)

Volume	Invert	Avail.Storage	Storage Description
#1	207.99'	770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	636	0.0	0	0
208.00	636	40.0	3	3
210.99	636	40.0	761	763
211.00	636	100.0	6	770

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.50' **4.0" Round Culvert** L= 80.0' Ke= 0.500
 Inlet / Outlet Invert= 208.50' / 205.10' S= 0.0425 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.09 sf
 #3 Discarded 207.99' **2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.04 cfs @ 10.65 hrs HW=208.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.04 cfs)**Primary OutFlow** Max=0.38 cfs @ 12.19 hrs HW=209.48' TW=205.44' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Inlet Controls 0.38 cfs @ 4.33 fps)**Summary for Pond OCS1: OCS#1**

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 4.34" for 10YR event
 Inflow = 7.21 cfs @ 12.09 hrs, Volume= 25,041 cf
 Outflow = 7.21 cfs @ 12.09 hrs, Volume= 25,041 cf, Atten= 0%, Lag= 0.0 min
 Primary = 7.21 cfs @ 12.09 hrs, Volume= 25,041 cf
 Routed to Pond P206 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 196.34' @ 12.15 hrs

Flood Elev= 201.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=7.04 cfs @ 12.09 hrs HW=196.28' TW=195.81' (Dynamic Tailwater)↑ **1=Orifice/Grate** (Orifice Controls 7.04 cfs @ 3.31 fps)**Summary for Pond OCS3: OCS#3**

Inflow Area = 54,550 sf, 83.49% Impervious, Inflow Depth > 3.96" for 10YR event
 Inflow = 5.31 cfs @ 12.09 hrs, Volume= 18,009 cf
 Outflow = 5.31 cfs @ 12.09 hrs, Volume= 18,009 cf, Atten= 0%, Lag= 0.0 min
 Primary = 5.31 cfs @ 12.09 hrs, Volume= 18,009 cf
 Routed to Pond p204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.80' @ 12.43 hrs

Flood Elev= 209.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.23 cfs @ 12.09 hrs HW=204.52' TW=204.13' (Dynamic Tailwater)↑ **1=Orifice/Grate** (Orifice Controls 5.23 cfs @ 3.02 fps)

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Summary for Pond OCS4: OCS#4

Inflow Area = 19,582 sf, 26.87% Impervious, Inflow Depth > 2.63" for 10YR event
 Inflow = 1.28 cfs @ 12.11 hrs, Volume= 4,286 cf
 Outflow = 1.28 cfs @ 12.11 hrs, Volume= 4,286 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.28 cfs @ 12.11 hrs, Volume= 4,286 cf
 Routed to Pond P204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.77' @ 12.46 hrs

Flood Elev= 208.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.27 cfs @ 12.11 hrs HW=204.23' TW=204.20' (Dynamic Tailwater)↑**1=Orifice/Grate** (Orifice Controls 1.27 cfs @ 0.89 fps)**Summary for Pond P204: STORMTECH INFILTRATION SYSTEM**

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth > 3.61" for 10YR event
 Inflow = 6.58 cfs @ 12.09 hrs, Volume= 22,296 cf
 Outflow = 1.94 cfs @ 12.46 hrs, Volume= 20,075 cf, Atten= 71%, Lag= 22.2 min
 Discarded = 0.09 cfs @ 9.10 hrs, Volume= 5,771 cf
 Primary = 1.85 cfs @ 12.46 hrs, Volume= 14,304 cf
 Routed to Reach 20r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.77' @ 12.46 hrs Surf.Area= 5,670 sf Storage= 8,682 cf

Flood Elev= 208.75' Surf.Area= 5,670 sf Storage= 13,379 cf

Plug-Flow detention time= 109.6 min calculated for 20,033 cf (90% of inflow)

Center-of-Mass det. time= 62.2 min (841.0 - 778.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	202.50'	5,923 cf	77.50'W x 67.70'L x 4.08'H STORMTECH SC-740 21,423 cf Overall - 6,615 cf Embedded = 14,808 cf x 40.0% Voids
#2A	203.08'	6,615 cf	ADS_StormTech SC-740 +Cap x 144 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 144 Chambers in 16 Rows
#3B	202.50'	427 cf	6.25'W x 67.70'L x 3.50'H ISOLATOR ROW 1,481 cf Overall - 413 cf Embedded = 1,067 cf x 40.0% Voids
#4B	203.00'	413 cf	ADS_StormTech SC-740 +Cap x 9 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap
		13,379 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Storage Group B created with Chamber Wizard

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Device	Routing	Invert	Outlet Devices
#1	Primary	202.75'	15.0" Round Culvert L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 202.75' / 201.00' S= 0.0500 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#2	Device 1	204.75'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Device 1	203.25'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Discarded	202.50'	0.660 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.09 cfs @ 9.10 hrs HW=202.57' (Free Discharge)↳ **4=Exfiltration** (Exfiltration Controls 0.09 cfs)**Primary OutFlow** Max=1.85 cfs @ 12.46 hrs HW=204.77' TW=200.09' (Dynamic Tailwater)↳ **1=Culvert** (Passes 1.85 cfs of 6.97 cfs potential flow)↳ **2=Broad-Crested Rectangular Weir** (Weir Controls 0.02 cfs @ 0.35 fps)↳ **3=Orifice/Grate** (Orifice Controls 1.83 cfs @ 5.24 fps)**Summary for Pond P205: POCKET WETLAND #2**

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 2.46" for 10YR event
 Inflow = 14.11 cfs @ 12.14 hrs, Volume= 63,948 cf
 Outflow = 1.32 cfs @ 14.26 hrs, Volume= 54,043 cf, Atten= 91%, Lag= 127.2 min
 Primary = 1.32 cfs @ 14.26 hrs, Volume= 54,043 cf
 Routed to Reach 18R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 197.00' Surf.Area= 538 sf Storage= 455 cf

Peak Elev= 201.24' @ 14.26 hrs Surf.Area= 12,171 sf Storage= 32,466 cf (32,012 cf above start)

Plug-Flow detention time= 274.3 min calculated for 53,588 cf (84% of inflow)

Center-of-Mass det. time= 201.4 min (1,034.1 - 832.7)

Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	65,076 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	371	0	0
197.00	538	455	455
198.00	5,675	3,107	3,561
200.00	9,686	15,361	18,922
202.00	13,696	23,382	42,304
203.00	15,427	14,562	56,866
203.50	17,413	8,210	65,076

Device	Routing	Invert	Outlet Devices
#1	Primary	202.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	196.00'	18.0" Round Culvert L= 63.0' Ke= 0.500 Inlet / Outlet Invert= 196.00' / 194.00' S= 0.0317 '/' Cc= 0.900

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n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
 #3 Device 2 197.00' **5.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
 #4 Device 2 202.00' **6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns**
 X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area)
 Limited to weir flow at low heads

Primary OutFlow Max=1.32 cfs @ 14.26 hrs HW=201.24' TW=192.14' (Dynamic Tailwater)

1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)
 2=Culvert (Passes 1.32 cfs of 18.03 cfs potential flow)
 3=Orifice/Grate (Orifice Controls 1.32 cfs @ 9.67 fps)
 4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond P206: STORMTECH INFILTRATION SYSTEM

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 4.34" for 10YR event
 Inflow = 7.21 cfs @ 12.09 hrs, Volume= 25,041 cf
 Outflow = 3.23 cfs @ 12.27 hrs, Volume= 25,038 cf, Atten= 55%, Lag= 11.2 min
 Discarded = 0.49 cfs @ 11.30 hrs, Volume= 20,072 cf
 Primary = 2.73 cfs @ 12.27 hrs, Volume= 4,966 cf
 Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 196.21' @ 12.27 hrs Surf.Area= 6,072 sf Storage= 6,618 cf

Plug-Flow detention time= 62.3 min calculated for 25,038 cf (100% of inflow)
 Center-of-Mass det. time= 62.2 min (827.0 - 764.8)

Volume	Invert	Avail.Storage	Storage Description
#1A	194.67'	1,786 cf	39.50'W x 53.46'L x 3.33'H FIELD A 7,038 cf Overall - 2,573 cf Embedded = 4,466 cf x 40.0% Voids
#2A	195.00'	2,573 cf	ADS_StormTech SC-740 +Cap x 56 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 56 Chambers in 8 Rows
#3B	194.67'	3,296 cf	58.50'W x 67.70'L x 3.33'H FIELD B 13,201 cf Overall - 4,962 cf Embedded = 8,239 cf x 40.0% Voids
#4B	195.00'	4,962 cf	ADS_StormTech SC-740 +Cap x 108 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 108 Chambers in 12 Rows
		12,616 cf	Total Available Storage

Storage Group A created with Chamber Wizard
 Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	194.00'	18.0" Round Culvert L= 30.0' Ke= 0.200 Inlet / Outlet Invert= 194.00' / 193.85' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	195.85'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#3	Discarded	194.67'	3.500 in/hr Exfiltration over Surface area Phase-In= 0.01'

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Discarded OutFlow Max=0.49 cfs @ 11.30 hrs HW=194.71' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.49 cfs)**Primary OutFlow** Max=2.69 cfs @ 12.27 hrs HW=196.20' TW=0.00' (Dynamic Tailwater)↑**1=Culvert** (Passes 2.69 cfs of 9.90 cfs potential flow)↑**2=Sharp-Crested Rectangular Weir** (Weir Controls 2.69 cfs @ 1.94 fps)**Summary for Pond P207: INFILTRATION POND #2**

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth > 3.66" for 10YR event
 Inflow = 10.23 cfs @ 12.09 hrs, Volume= 36,010 cf
 Outflow = 2.15 cfs @ 12.56 hrs, Volume= 35,997 cf, Atten= 79%, Lag= 27.7 min
 Discarded = 0.97 cfs @ 12.56 hrs, Volume= 30,816 cf
 Primary = 1.18 cfs @ 12.56 hrs, Volume= 5,181 cf
 Routed to Reach 10r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 197.90' @ 12.56 hrs Surf.Area= 11,368 sf Storage= 11,707 cf

Plug-Flow detention time= 65.5 min calculated for 35,922 cf (100% of inflow)
 Center-of-Mass det. time= 65.1 min (856.4 - 791.3)

Volume	Invert	Avail.Storage	Storage Description
#1	196.80'	38,940 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.80	9,900	0	0
198.00	11,500	12,840	12,840
200.00	14,600	26,100	38,940

Device	Routing	Invert	Outlet Devices
#1	Primary	199.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	195.00'	15.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 194.50' S= 0.0125 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#3	Device 2	199.00'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads
#4	Device 2	197.40'	7.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#5	Discarded	196.80'	3.690 in/hr Exfiltration over Surface area Phase-In= 0.01'

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Discarded OutFlow Max=0.97 cfs @ 12.56 hrs HW=197.90' (Free Discharge)↳ **5=Exfiltration** (Exfiltration Controls 0.97 cfs)**Primary OutFlow** Max=1.18 cfs @ 12.56 hrs HW=197.90' TW=192.19' (Dynamic Tailwater)↳ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↳ **2=Culvert** (Passes 1.18 cfs of 8.91 cfs potential flow)↳ **3=Orifice/Grate** (Controls 0.00 cfs)↳ **4=Orifice/Grate** (Orifice Controls 1.18 cfs @ 2.41 fps)**Summary for Pond P210: POCKET WETLAND #1**

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 3.44" for 10YR event

Inflow = 9.15 cfs @ 12.09 hrs, Volume= 30,639 cf

Outflow = 0.86 cfs @ 13.02 hrs, Volume= 14,245 cf, Atten= 91%, Lag= 56.0 min

Primary = 0.86 cfs @ 13.02 hrs, Volume= 14,245 cf

Routed to Reach 15R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 201.00' Surf.Area= 376 sf Storage= 591 cf

Peak Elev= 204.55' @ 13.02 hrs Surf.Area= 9,507 sf Storage= 19,688 cf (19,097 cf above start)

Plug-Flow detention time= 351.8 min calculated for 13,625 cf (44% of inflow)

Center-of-Mass det. time= 215.9 min (1,008.3 - 792.4)

Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	43,190 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	218	0	0
200.00	294	256	256
201.00	376	335	591
202.00	3,991	2,184	2,775
204.00	8,073	12,064	14,839
206.00	13,272	21,345	36,184
206.50	14,753	7,006	43,190

Device	Routing	Invert	Outlet Devices
#1	Primary	205.10'	20.0' long x 15.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	202.25'	12.0" Round Culvert L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 202.25' / 202.03' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	202.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 2	204.50'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads

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Primary OutFlow Max=0.85 cfs @ 13.02 hrs HW=204.55' TW=202.07' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Passes 0.85 cfs of 4.58 cfs potential flow)↑ **3=Orifice/Grate** (Orifice Controls 0.24 cfs @ 7.06 fps)↑ **4=Orifice/Grate** (Weir Controls 0.61 cfs @ 0.74 fps)**Summary for Pond P212: INFILTRATION POND #1**

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth > 3.55" for 10YR event

Inflow = 20.09 cfs @ 12.11 hrs, Volume= 81,688 cf

Outflow = 4.54 cfs @ 12.66 hrs, Volume= 81,667 cf, Atten= 77%, Lag= 33.2 min

Discarded = 1.98 cfs @ 12.66 hrs, Volume= 65,248 cf

Primary = 2.56 cfs @ 12.66 hrs, Volume= 16,419 cf

Routed to Reach r211 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.42' @ 12.66 hrs Surf.Area= 16,690 sf Storage= 30,405 cf

Plug-Flow detention time= 97.7 min calculated for 81,667 cf (100% of inflow)

Center-of-Mass det. time= 97.5 min (899.3 - 801.7)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	60,838 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	7,528	0	0
201.00	12,295	9,912	9,912
202.00	15,371	13,833	23,745
204.00	21,722	37,093	60,838

Device	Routing	Invert	Outlet Devices
#1	Primary	202.50'	25.0' long x 20.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	201.30'	12.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.10' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#3	Discarded	200.00'	5.130 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=1.98 cfs @ 12.66 hrs HW=202.41' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 1.98 cfs)**Primary OutFlow** Max=2.55 cfs @ 12.66 hrs HW=202.41' TW=200.14' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 2.55 cfs @ 3.64 fps)

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Summary for Link AP1: ANALYSIS POINT 1

Inflow Area = 11,582 sf, 80.55% Impervious, Inflow Depth > 3.94" for 10YR event
Inflow = 1.15 cfs @ 12.09 hrs, Volume= 3,803 cf
Primary = 1.15 cfs @ 12.09 hrs, Volume= 3,803 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 815,829 sf, 13.52% Impervious, Inflow Depth > 2.48" for 10YR event
Inflow = 19.34 cfs @ 12.39 hrs, Volume= 168,903 cf
Primary = 19.34 cfs @ 12.39 hrs, Volume= 168,903 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 46,924 sf, 0.00% Impervious, Inflow Depth > 2.25" for 10YR event
Inflow = 2.77 cfs @ 12.10 hrs, Volume= 8,786 cf
Primary = 2.77 cfs @ 12.10 hrs, Volume= 8,786 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP4: ANALYSIS POINT #4

Inflow Area = 1,699,585 sf, 28.90% Impervious, Inflow Depth > 1.55" for 10YR event
Inflow = 24.37 cfs @ 12.40 hrs, Volume= 220,048 cf
Primary = 24.37 cfs @ 12.40 hrs, Volume= 220,048 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentB1: MULTIFAMILY BLDG	Runoff Area=25,099 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=3.47 cfs 12,650 cf
SubcatchmentB2: MULTIFAMILY BLDG	Runoff Area=17,602 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=2.43 cfs 8,871 cf
SubcatchmentC1: CB #1	Runoff Area=26,588 sf 32.90% Impervious Runoff Depth>3.32" Flow Length=413' Tc=16.1 min CN=73 Runoff=1.75 cfs 7,357 cf
SubcatchmentC10: CB #10	Runoff Area=9,660 sf 94.65% Impervious Runoff Depth>5.93" Tc=6.0 min CN=97 Runoff=1.33 cfs 4,774 cf
SubcatchmentC11: CB #11	Runoff Area=13,834 sf 51.04% Impervious Runoff Depth>4.68" Tc=6.0 min CN=86 Runoff=1.66 cfs 5,398 cf
SubcatchmentC12: CB #12	Runoff Area=9,596 sf 47.54% Impervious Runoff Depth>4.57" Tc=6.0 min CN=85 Runoff=1.13 cfs 3,657 cf
SubcatchmentC13: CB #13	Runoff Area=8,572 sf 67.67% Impervious Runoff Depth>5.13" Tc=6.0 min CN=90 Runoff=1.10 cfs 3,661 cf
SubcatchmentC14: CB #14	Runoff Area=12,986 sf 75.60% Impervious Runoff Depth>4.57" Tc=6.0 min CN=85 Runoff=1.53 cfs 4,949 cf
SubcatchmentC15: CB #15	Runoff Area=4,895 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.68 cfs 2,467 cf
SubcatchmentC16: CB #16	Runoff Area=8,063 sf 64.54% Impervious Runoff Depth>3.94" Tc=6.0 min CN=79 Runoff=0.83 cfs 2,645 cf
SubcatchmentC17: CB #17	Runoff Area=11,845 sf 77.88% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=1.58 cfs 5,395 cf
SubcatchmentC18: CB #18	Runoff Area=19,016 sf 66.41% Impervious Runoff Depth>5.13" Tc=6.0 min CN=90 Runoff=2.44 cfs 8,122 cf
SubcatchmentC2: CB #2	Runoff Area=19,138 sf 74.07% Impervious Runoff Depth>5.13" Tc=6.0 min CN=90 Runoff=2.45 cfs 8,174 cf
SubcatchmentC20: CB #20	Runoff Area=11,694 sf 79.49% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=1.56 cfs 5,326 cf
SubcatchmentC21: CB #21	Runoff Area=9,093 sf 91.54% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=1.21 cfs 4,141 cf
SubcatchmentC22: CB #22	Runoff Area=9,139 sf 88.07% Impervious Runoff Depth>5.81" Tc=6.0 min CN=96 Runoff=1.25 cfs 4,427 cf

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SubcatchmentC23: CB #23	Runoff Area=9,139 sf 62.65% Impervious Runoff Depth>5.01" Tc=6.0 min CN=89 Runoff=1.15 cfs 3,818 cf
SubcatchmentC24: CB #24	Runoff Area=1,933 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.27 cfs 974 cf
SubcatchmentC25: CB #25	Runoff Area=8,811 sf 96.03% Impervious Runoff Depth>5.93" Tc=6.0 min CN=97 Runoff=1.21 cfs 4,354 cf
SubcatchmentC26: CB #26	Runoff Area=14,532 sf 64.66% Impervious Runoff Depth>5.35" Tc=6.0 min CN=92 Runoff=1.91 cfs 6,480 cf
SubcatchmentC27: CB #27	Runoff Area=9,808 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=1.36 cfs 4,943 cf
SubcatchmentC28: CB #28	Runoff Area=10,368 sf 51.34% Impervious Runoff Depth>4.90" Tc=6.0 min CN=88 Runoff=1.29 cfs 4,235 cf
SubcatchmentC29: CB #29	Runoff Area=6,798 sf 77.21% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=0.90 cfs 3,096 cf
SubcatchmentC3: CB #3	Runoff Area=17,454 sf 72.05% Impervious Runoff Depth>4.90" Tc=6.0 min CN=88 Runoff=2.17 cfs 7,130 cf
SubcatchmentC30: CB #30	Runoff Area=12,141 sf 63.92% Impervious Runoff Depth>5.01" Tc=6.0 min CN=89 Runoff=1.53 cfs 5,072 cf
SubcatchmentC31: CB #31	Runoff Area=11,736 sf 71.29% Impervious Runoff Depth>5.24" Tc=6.0 min CN=91 Runoff=1.52 cfs 5,123 cf
SubcatchmentC32: CB #32	Runoff Area=10,801 sf 62.85% Impervious Runoff Depth>5.01" Tc=6.0 min CN=89 Runoff=1.36 cfs 4,512 cf
SubcatchmentC33: CB #33	Runoff Area=4,514 sf 77.96% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=0.60 cfs 2,056 cf
SubcatchmentC34: CB #34	Runoff Area=7,027 sf 72.62% Impervious Runoff Depth>5.24" Tc=6.0 min CN=91 Runoff=0.91 cfs 3,067 cf
SubcatchmentC35: CB #35	Runoff Area=2,891 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.40 cfs 1,457 cf
SubcatchmentC36: CB #36	Runoff Area=6,622 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.92 cfs 3,337 cf
SubcatchmentC37: CB #37	Runoff Area=1,258 sf 93.72% Impervious Runoff Depth>5.93" Tc=6.0 min CN=97 Runoff=0.17 cfs 622 cf
SubcatchmentC38: CB #38	Runoff Area=19,951 sf 77.05% Impervious Runoff Depth>5.13" Tc=6.0 min CN=90 Runoff=2.56 cfs 8,521 cf
SubcatchmentC39: CB #39	Runoff Area=7,773 sf 98.44% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=1.07 cfs 3,918 cf

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SubcatchmentC4: CB #4	Runoff Area=44,168 sf 23.30% Impervious Runoff Depth>2.93" Flow Length=545' Tc=21.4 min CN=69 Runoff=2.27 cfs 10,775 cf
SubcatchmentC40: CB #40	Runoff Area=4,556 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.63 cfs 2,296 cf
SubcatchmentC41: CB #41	Runoff Area=12,750 sf 69.28% Impervious Runoff Depth>4.79" Tc=6.0 min CN=87 Runoff=1.56 cfs 5,091 cf
SubcatchmentC42: CB #42	Runoff Area=11,277 sf 36.51% Impervious Runoff Depth>3.53" Tc=6.0 min CN=75 Runoff=1.05 cfs 3,315 cf
SubcatchmentC43: CB #43	Runoff Area=4,084 sf 81.61% Impervious Runoff Depth>5.24" Tc=6.0 min CN=91 Runoff=0.53 cfs 1,783 cf
SubcatchmentC44: CB #44	Runoff Area=1,662 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.23 cfs 838 cf
SubcatchmentC45: CB #45	Runoff Area=2,109 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.29 cfs 1,063 cf
SubcatchmentC46: CB #46	Runoff Area=1,371 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.19 cfs 691 cf
SubcatchmentC47: CB#47	Runoff Area=3,060 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.42 cfs 1,542 cf
SubcatchmentC48: CB#48	Runoff Area=60,166 sf 25.94% Impervious Runoff Depth>3.03" Flow Length=400' Tc=11.8 min CN=70 Runoff=4.02 cfs 15,193 cf
SubcatchmentC49: CB#49	Runoff Area=5,895 sf 28.14% Impervious Runoff Depth>3.13" Tc=6.0 min CN=71 Runoff=0.49 cfs 1,538 cf
SubcatchmentC5: CB #5	Runoff Area=1,456 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.20 cfs 734 cf
SubcatchmentC50: CB#50	Runoff Area=5,175 sf 33.29% Impervious Runoff Depth>3.23" Tc=6.0 min CN=72 Runoff=0.44 cfs 1,393 cf
SubcatchmentC51: CB #51	Runoff Area=9,779 sf 84.41% Impervious Runoff Depth>5.35" Tc=6.0 min CN=92 Runoff=1.29 cfs 4,361 cf
SubcatchmentC6: CB #6	Runoff Area=1,821 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.25 cfs 918 cf
SubcatchmentC7: CB #7	Runoff Area=12,883 sf 48.58% Impervious Runoff Depth>3.94" Tc=6.0 min CN=79 Runoff=1.33 cfs 4,226 cf
SubcatchmentC8: CB #8	Runoff Area=44,098 sf 25.01% Impervious Runoff Depth>3.03" Flow Length=520' Tc=18.2 min CN=70 Runoff=2.50 cfs 11,119 cf

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SubcatchmentC9: CB #9	Runoff Area=14,681 sf 77.77% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=1.95 cfs 6,686 cf
SubcatchmentCH1: CLUBHOUSE	Runoff Area=6,087 sf 100.00% Impervious Runoff Depth>6.05" Tc=6.0 min CN=98 Runoff=0.84 cfs 3,068 cf
SubcatchmentH1: SF #1	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.37 cfs 1,275 cf
SubcatchmentH10: SF #10	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.33 cfs 1,155 cf
SubcatchmentH11: SF #11	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.37 cfs 1,301 cf
SubcatchmentH12: SF #12	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.43 cfs 1,520 cf
SubcatchmentH13: SF #13	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>5.81" Tc=6.0 min CN=96 Runoff=0.56 cfs 1,985 cf
SubcatchmentH14: SF #14	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.33 cfs 1,155 cf
SubcatchmentH15: SF #15	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.26 cfs 893 cf
SubcatchmentH16: SF #16	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.33 cfs 1,155 cf
SubcatchmentH17: SF #17	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>5.13" Tc=6.0 min CN=90 Runoff=0.25 cfs 838 cf
SubcatchmentH18: SF #18	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.24" Tc=6.0 min CN=91 Runoff=0.36 cfs 1,196 cf
SubcatchmentH19: SF #19	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>5.24" Tc=6.0 min CN=91 Runoff=0.32 cfs 1,062 cf
SubcatchmentH2: SF #2	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>5.35" Tc=6.0 min CN=92 Runoff=0.25 cfs 857 cf
SubcatchmentH20: SF #20	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>5.13" Tc=6.0 min CN=90 Runoff=0.25 cfs 820 cf
SubcatchmentH21: SF #21	Runoff Area=1,961 sf 86.33% Impervious Runoff Depth>5.24" Tc=6.0 min CN=91 Runoff=0.25 cfs 856 cf
SubcatchmentH22: SF #22	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.43 cfs 1,520 cf
SubcatchmentH23: SF #23	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.32 cfs 1,107 cf

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SubcatchmentH24: SF #24	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.37 cfs 1,301 cf
SubcatchmentH25: SF #25	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.37 cfs 1,301 cf
SubcatchmentH26: SF #26	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.32 cfs 1,107 cf
SubcatchmentH27: SF #27	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.33 cfs 1,155 cf
SubcatchmentH28: SF #28	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.33 cfs 1,155 cf
SubcatchmentH29: SF #29	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.32 cfs 1,107 cf
SubcatchmentH3: SF #3	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.31 cfs 1,085 cf
SubcatchmentH30: SF #30	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.37 cfs 1,301 cf
SubcatchmentH31: SF #31	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.37 cfs 1,301 cf
SubcatchmentH32: SF #32	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.32 cfs 1,107 cf
SubcatchmentH33: SF #33	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.26 cfs 893 cf
SubcatchmentH34: SF #34	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.56 cfs 1,945 cf
SubcatchmentH35: SF #35	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.56 cfs 1,945 cf
SubcatchmentH36: SF #36	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.43 cfs 1,520 cf
SubcatchmentH37: SF #37	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.43 cfs 1,489 cf
SubcatchmentH38: SF #38	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.37 cfs 1,275 cf
SubcatchmentH39: SF #39	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.31 cfs 1,085 cf

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SubcatchmentH4: SF #4	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.37 cfs 1,275 cf
SubcatchmentH40: SF #40	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.37 cfs 1,275 cf
SubcatchmentH41: SF #41	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.37 cfs 1,275 cf
SubcatchmentH42: SF #42	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=0.26 cfs 893 cf
SubcatchmentH43: SF #43	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=0.26 cfs 893 cf
SubcatchmentH44: SF #44	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=0.26 cfs 893 cf
SubcatchmentH45: SF #45	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.31 cfs 1,085 cf
SubcatchmentH46: SF #46	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.43 cfs 1,489 cf
SubcatchmentH47: SF #47	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>5.35" Tc=6.0 min CN=92 Runoff=0.25 cfs 857 cf
SubcatchmentH48: SF #48	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=0.26 cfs 893 cf
SubcatchmentH5: SF #5	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.31 cfs 1,085 cf
SubcatchmentH7: SF #7	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.33 cfs 1,155 cf
SubcatchmentH8: SF #8	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.32 cfs 1,107 cf
SubcatchmentH9: SF #9	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.37 cfs 1,301 cf
SubcatchmentS201: SUMMER STREET	Runoff Area=11,582 sf 80.55% Impervious Runoff Depth>5.24" Tc=6.0 min CN=91 Runoff=1.50 cfs 5,055 cf
SubcatchmentS202: EXISTING WETLAND	Runoff Area=401,873 sf 3.47% Impervious Runoff Depth>3.82" Flow Length=1,049' Tc=21.5 min CN=78 Runoff=27.05 cfs 127,970 cf
SubcatchmentS203: POCKET WETLAND #1	Runoff Area=25,574 sf 1.29% Impervious Runoff Depth>3.43" Tc=6.0 min CN=74 Runoff=2.32 cfs 7,304 cf
SubcatchmentS204: EXISTING WETLANDS	Runoff Area=269,528 sf 0.10% Impervious Runoff Depth>3.92" Flow Length=632' Tc=22.6 min CN=79 Runoff=18.24 cfs 88,128 cf

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Subcatchment S205: ISOLATED WETLAND	Runoff Area=46,924 sf 0.00% Impervious Runoff Depth>3.33" Tc=6.0 min CN=73 Runoff=4.12 cfs 13,012 cf
Subcatchment S206: OVERLAND FLOW	Runoff Area=647,746 sf 0.00% Impervious Runoff Depth>2.55" Flow Length=795' Tc=24.3 min CN=65 Runoff=27.11 cfs 137,649 cf
Subcatchment S207: INFILTRATION POND	Runoff Area=21,058 sf 0.00% Impervious Runoff Depth>4.57" Tc=6.0 min CN=85 Runoff=2.48 cfs 8,025 cf
Subcatchment S208: GRASS AREA	Runoff Area=13,656 sf 0.00% Impervious Runoff Depth>3.23" Tc=6.0 min CN=72 Runoff=1.16 cfs 3,675 cf
Subcatchment S209: WETLAND C	Runoff Area=108,678 sf 0.00% Impervious Runoff Depth>3.31" Flow Length=550' Slope=0.0150 '/' Tc=27.3 min CN=73 Runoff=5.73 cfs 29,998 cf
Subcatchment S210: INFILTRATION	Runoff Area=114,678 sf 23.23% Impervious Runoff Depth>4.46" Flow Length=580' Slope=0.0150 '/' Tc=16.5 min CN=84 Runoff=9.89 cfs 42,592 cf
Subcatchment S211: POCKET WETLAND #2	Runoff Area=45,277 sf 0.00% Impervious Runoff Depth>3.62" Flow Length=528' Slope=0.0400 '/' Tc=22.0 min CN=76 Runoff=2.86 cfs 13,646 cf
Subcatchment S212: SWALE	Runoff Area=31,136 sf 0.00% Impervious Runoff Depth>3.72" Flow Length=150' Slope=0.0050 '/' Tc=18.8 min CN=77 Runoff=2.16 cfs 9,654 cf
Subcatchment S213: COURTYARD	Runoff Area=21,271 sf 40.78% Impervious Runoff Depth>4.15" Tc=6.0 min CN=81 Runoff=2.31 cfs 7,348 cf
Subcatchment T1: Trench Drain 1	Runoff Area=9,454 sf 79.45% Impervious Runoff Depth>5.47" Tc=6.0 min CN=93 Runoff=1.26 cfs 4,306 cf
Subcatchment T2: Drive Under B2	Runoff Area=5,585 sf 70.30% Impervious Runoff Depth>4.15" Tc=6.0 min CN=81 Runoff=0.61 cfs 1,929 cf
Subcatchment TH1: TOWN HOUSE #1	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.80 cfs 2,756 cf
Subcatchment TH10: TOWN HOUSE #10	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.58 cfs 2,022 cf
Subcatchment TH11: TOWN HOUSE #11	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.80 cfs 2,813 cf
Subcatchment TH2: TOWN HOUSE #2	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>5.58" Tc=6.0 min CN=94 Runoff=0.80 cfs 2,756 cf
Subcatchment TH3: TOWN HOUSE #3	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.46 cfs 1,624 cf
Subcatchment TH4: TOWN HOUSE #4	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.58 cfs 2,022 cf

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Subcatchment TH5: TOWN HOUSE #5	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.46 cfs 1,624 cf
Subcatchment TH6: TOWN HOUSE #6	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.58 cfs 2,022 cf
Subcatchment TH7: TOWN HOUSE #7	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.58 cfs 2,022 cf
Subcatchment TH8: TOWN HOUSE #8	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.80 cfs 2,813 cf
Subcatchment TH9: TOWN HOUSE #9	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>5.70" Tc=6.0 min CN=95 Runoff=0.58 cfs 2,022 cf
Reach 1R: OVERLAND FLOW	Avg. Flow Depth=0.04' Max Vel=0.05 fps Inflow=1.52 cfs 4,265 cf n=0.400 L=1,350.0' S=0.0133 ' Capacity=22.21 cfs Outflow=0.10 cfs 2,859 cf
Reach 3R: OVERLAND FLOW	Avg. Flow Depth=0.07' Max Vel=0.08 fps Inflow=0.96 cfs 2,751 cf n=0.400 L=475.0' S=0.0174 ' Capacity=20.48 cfs Outflow=0.22 cfs 2,542 cf
Reach 4R: OVERLAND FLOW	Avg. Flow Depth=0.08' Max Vel=0.10 fps Inflow=1.62 cfs 4,695 cf n=0.400 L=535.0' S=0.0224 ' Capacity=30.09 cfs Outflow=0.40 cfs 4,378 cf
Reach 7R: OVERLAND FLOW	Avg. Flow Depth=0.05' Max Vel=0.07 fps Inflow=0.99 cfs 3,181 cf n=0.400 L=730.0' S=0.0247 ' Capacity=30.21 cfs Outflow=0.17 cfs 2,780 cf
Reach 8R: OVERLAND FLOW	Avg. Flow Depth=0.04' Max Vel=0.07 fps Inflow=1.00 cfs 2,989 cf n=0.400 L=756.0' S=0.0238 ' Capacity=31.01 cfs Outflow=0.15 cfs 2,578 cf
Reach 9R: OVERLAND FLOW	Avg. Flow Depth=0.17' Max Vel=0.22 fps Inflow=2.04 cfs 5,523 cf n=0.400 L=380.0' S=0.0368 ' Capacity=19.23 cfs Outflow=0.96 cfs 5,383 cf
Reach 10R: OVERLAND FLOW	Avg. Flow Depth=0.29' Max Vel=0.29 fps Inflow=1.96 cfs 11,830 cf n=0.400 L=164.0' S=0.0366 ' Capacity=17.57 cfs Outflow=1.91 cfs 11,829 cf
Reach 11R: 4x4 Open Bottom Culvert	Avg. Flow Depth=1.11' Max Vel=2.11 fps Inflow=9.39 cfs 87,284 cf 48.0" x 48.0" Box Pipe n=0.069 L=30.0' S=0.0150 ' Capacity=42.20 cfs Outflow=9.39 cfs 87,273 cf
Reach 12R: OVERLAND FLOW	Avg. Flow Depth=0.16' Max Vel=0.17 fps Inflow=2.32 cfs 8,152 cf n=0.400 L=250.0' S=0.0240 ' Capacity=29.80 cfs Outflow=1.41 cfs 7,997 cf
Reach 13R: OVERLAND FLOW	Avg. Flow Depth=0.04' Max Vel=0.05 fps Inflow=0.65 cfs 2,409 cf n=0.400 L=660.0' S=0.0152 ' Capacity=24.73 cfs Outflow=0.11 cfs 2,038 cf
Reach 14R: OVERLAND FLOW	Avg. Flow Depth=0.13' Max Vel=0.14 fps Inflow=2.89 cfs 13,569 cf n=0.400 L=852.0' S=0.0246 ' Capacity=31.55 cfs Outflow=0.94 cfs 12,445 cf
Reach 15R: OVERLAND FLOW	Avg. Flow Depth=0.26' Max Vel=0.21 fps Inflow=4.80 cfs 24,274 cf n=0.400 L=300.0' S=0.0200 ' Capacity=27.21 cfs Outflow=2.74 cfs 23,395 cf
Reach 16R: OVERLAND FLOW	Avg. Flow Depth=0.04' Max Vel=0.07 fps Inflow=0.40 cfs 1,222 cf n=0.400 L=263.0' S=0.0266 ' Capacity=31.39 cfs Outflow=0.13 cfs 1,180 cf

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Reach 18R: OVERLAND FLOW Avg. Flow Depth=0.29' Max Vel=0.28 fps Inflow=4.95 cfs 72,930 cf
n=0.400 L=184.0' S=0.0326 ' /' Capacity=36.29 cfs Outflow=4.24 cfs 71,699 cf

Reach 20R: OVERLAND FLOW Avg. Flow Depth=0.24' Max Vel=0.13 fps Inflow=4.55 cfs 21,364 cf
n=0.400 L=560.0' S=0.0093 ' /' Capacity=18.54 cfs Outflow=1.63 cfs 20,569 cf

Reach 23R: OVERLAND FLOW Avg. Flow Depth=0.49' Max Vel=0.30 fps Inflow=9.39 cfs 87,273 cf
n=0.400 L=237.0' S=0.0211 ' /' Capacity=31.93 cfs Outflow=8.77 cfs 86,622 cf

Reach R202: OVERLAND FLOW Avg. Flow Depth=0.52' Max Vel=0.23 fps Inflow=27.05 cfs 127,949 cf
n=0.400 L=700.0' S=0.0107 ' /' Capacity=42.56 cfs Outflow=13.53 cfs 122,322 cf

Reach R211: OVERLAND FLOW Avg. Flow Depth=0.50' Max Vel=0.19 fps Inflow=11.39 cfs 35,219 cf
n=0.400 L=600.0' S=0.0087 ' /' Capacity=14.51 cfs Outflow=4.09 cfs 34,788 cf

Reach SC1: Stream Crossing #1 Avg. Flow Depth=0.44' Max Vel=3.88 fps Inflow=27.05 cfs 127,970 cf
192.0" x 60.0", R=207.0" Arch Pipe n=0.030 L=43.1' S=0.0200 ' /' Capacity=722.91 cfs Outflow=27.05 cfs 127,949 cf

Reach SC2: Stream Crossing #2 Avg. Flow Depth=0.10' Max Vel=1.63 fps Inflow=2.55 cfs 12,082 cf
192.0" x 60.0", R=180.0" Arch Pipe n=0.030 L=36.5' S=0.0241 ' /' Capacity=768.96 cfs Outflow=2.55 cfs 12,081 cf

Pond 5R: TRENCH DRAIN Peak Elev=198.28' Inflow=1.26 cfs 4,306 cf
15.0" Round Culvert n=0.012 L=24.0' S=0.0050 ' /' Outflow=1.26 cfs 4,306 cf

Pond 11P: YARD DRAIN Peak Elev=207.41' Storage=913 cf Inflow=2.31 cfs 7,348 cf
Outflow=1.75 cfs 7,298 cf

Pond CB1: CB#1 Peak Elev=208.71' Inflow=1.75 cfs 7,357 cf
12.0" Round Culvert n=0.013 L=14.1' S=0.0050 ' /' Outflow=1.75 cfs 7,357 cf

Pond CB10: CB #10 Peak Elev=210.62' Inflow=1.33 cfs 4,774 cf
12.0" Round Culvert n=0.013 L=33.8' S=0.0050 ' /' Outflow=1.33 cfs 4,774 cf

Pond CB11: CB #11 Peak Elev=210.76' Inflow=1.66 cfs 5,398 cf
12.0" Round Culvert n=0.013 L=26.3' S=0.0103 ' /' Outflow=1.66 cfs 5,398 cf

Pond CB12: CB #12 Peak Elev=210.37' Inflow=1.13 cfs 3,657 cf
12.0" Round Culvert n=0.013 L=14.0' S=0.0050 ' /' Outflow=1.13 cfs 3,657 cf

Pond CB13: CB #13 Peak Elev=210.36' Inflow=1.10 cfs 3,661 cf
12.0" Round Culvert n=0.013 L=14.6' S=0.0048 ' /' Outflow=1.10 cfs 3,661 cf

Pond CB14: CB #14 Peak Elev=201.82' Inflow=1.53 cfs 4,949 cf
12.0" Round Culvert n=0.013 L=23.2' S=0.0052 ' /' Outflow=1.53 cfs 4,949 cf

Pond CB15: CB #15 Peak Elev=201.69' Inflow=0.68 cfs 2,467 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 ' /' Outflow=0.68 cfs 2,467 cf

Pond CB16: CB #16 Peak Elev=204.09' Inflow=0.83 cfs 2,645 cf
12.0" Round Culvert n=0.013 L=20.9' S=0.0067 ' /' Outflow=0.83 cfs 2,645 cf

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Pond CB17: CB #17

Peak Elev=205.88' Inflow=1.58 cfs 5,395 cf
12.0" Round Culvert n=0.013 L=13.8' S=0.0094 ' Outflow=1.58 cfs 5,395 cf

Pond CB18: CB #18

Peak Elev=205.91' Inflow=2.81 cfs 9,469 cf
15.0" Round Culvert n=0.013 L=25.1' S=0.0052 ' Outflow=2.81 cfs 9,469 cf

Pond CB2: CB#2

Peak Elev=205.95' Inflow=2.45 cfs 8,174 cf
12.0" Round Culvert n=0.013 L=92.1' S=0.0050 ' Outflow=2.45 cfs 8,174 cf

Pond CB20: CB #20

Peak Elev=204.79' Inflow=1.56 cfs 5,326 cf
12.0" Round Culvert n=0.013 L=30.3' S=0.0053 ' Outflow=1.56 cfs 5,326 cf

Pond CB21: CB #21

Peak Elev=205.02' Inflow=1.21 cfs 4,141 cf
12.0" Round Culvert n=0.013 L=26.0' S=0.0050 ' Outflow=1.21 cfs 4,141 cf

Pond CB22: CB #22

Peak Elev=206.04' Inflow=1.25 cfs 4,427 cf
12.0" Round Culvert n=0.012 L=16.1' S=0.0050 ' Outflow=1.25 cfs 4,427 cf

Pond CB23: CB #23

Peak Elev=206.08' Inflow=1.15 cfs 3,818 cf
12.0" Round Culvert n=0.012 L=16.3' S=0.0055 ' Outflow=1.15 cfs 3,818 cf

Pond CB24: CB #24

Peak Elev=205.77' Inflow=0.27 cfs 974 cf
12.0" Round Culvert n=0.012 L=12.1' S=0.0050 ' Outflow=0.27 cfs 974 cf

Pond CB25: CB #25

Peak Elev=205.95' Inflow=1.21 cfs 4,354 cf
12.0" Round Culvert n=0.012 L=11.4' S=0.0053 ' Outflow=1.21 cfs 4,354 cf

Pond CB26: CB #26

Peak Elev=202.68' Inflow=1.91 cfs 6,480 cf
12.0" Round Culvert n=0.013 L=42.5' S=0.0052 ' Outflow=1.91 cfs 6,480 cf

Pond CB27: CB #27

Peak Elev=201.95' Inflow=1.36 cfs 4,943 cf
12.0" Round Culvert n=0.013 L=18.0' S=0.0056 ' Outflow=1.36 cfs 4,943 cf

Pond CB28: CB #28

Peak Elev=198.80' Inflow=1.29 cfs 4,235 cf
12.0" Round Culvert n=0.013 L=13.7' S=0.0044 ' Outflow=1.29 cfs 4,235 cf

Pond CB29: CB #29

Peak Elev=206.28' Inflow=0.90 cfs 3,096 cf
12.0" Round Culvert n=0.013 L=13.5' S=0.0052 ' Outflow=0.90 cfs 3,096 cf

Pond CB3: CB#3

Peak Elev=208.81' Inflow=2.17 cfs 7,130 cf
12.0" Round Culvert n=0.013 L=10.2' S=0.0059 ' Outflow=2.17 cfs 7,130 cf

Pond CB30: CB #30

Peak Elev=206.38' Inflow=1.53 cfs 5,072 cf
12.0" Round Culvert n=0.013 L=17.5' S=0.0051 ' Outflow=1.53 cfs 5,072 cf

Pond CB31: CB #31

Peak Elev=205.00' Inflow=1.52 cfs 5,123 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' Outflow=1.52 cfs 5,123 cf

Pond CB32: CB #32

Peak Elev=204.95' Inflow=1.36 cfs 4,512 cf
12.0" Round Culvert n=0.013 L=16.3' S=0.0049 ' Outflow=1.36 cfs 4,512 cf

Pond CB33: CB #33

Peak Elev=205.90' Inflow=0.60 cfs 2,056 cf
12.0" Round Culvert n=0.013 L=11.7' S=0.0051 ' Outflow=0.60 cfs 2,056 cf

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Pond CB34: CB #34Peak Elev=205.94' Inflow=0.91 cfs 3,067 cf
12.0" Round Culvert n=0.013 L=16.5' S=0.0048 ' Outflow=0.91 cfs 3,067 cf**Pond CB35: CB #35**Peak Elev=207.44' Inflow=0.40 cfs 1,457 cf
12.0" Round Culvert n=0.013 L=15.2' S=0.0053 ' Outflow=0.40 cfs 1,457 cf**Pond CB36: CB #36**Peak Elev=207.64' Inflow=0.92 cfs 3,337 cf
12.0" Round Culvert n=0.013 L=16.1' S=0.0050 ' Outflow=0.92 cfs 3,337 cf**Pond CB37: CB #37**Peak Elev=209.28' Inflow=0.17 cfs 622 cf
12.0" Round Culvert n=0.013 L=77.2' S=0.0098 ' Outflow=0.17 cfs 622 cf**Pond CB38: CB #38**Peak Elev=210.83' Inflow=2.56 cfs 8,521 cf
12.0" Round Culvert n=0.012 L=16.7' S=0.0048 ' Outflow=2.56 cfs 8,521 cf**Pond CB39: CB #39**Peak Elev=210.49' Inflow=1.07 cfs 3,918 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' Outflow=1.07 cfs 3,918 cf**Pond CB4: CB#4**Peak Elev=212.94' Inflow=2.27 cfs 10,775 cf
15.0" Round Culvert n=0.012 L=13.1' S=0.0046 ' Outflow=2.27 cfs 10,775 cf**Pond CB40: CB #40**Peak Elev=214.54' Inflow=0.63 cfs 2,296 cf
12.0" Round Culvert n=0.013 L=26.7' S=0.0049 ' Outflow=0.63 cfs 2,296 cf**Pond CB41: CB #41**Peak Elev=214.75' Inflow=1.56 cfs 5,091 cf
12.0" Round Culvert n=0.013 L=18.4' S=0.0049 ' Outflow=1.56 cfs 5,091 cf**Pond CB42: CB #42**Peak Elev=218.49' Inflow=1.05 cfs 3,315 cf
12.0" Round Culvert n=0.013 L=58.1' S=0.0076 ' Outflow=1.05 cfs 3,315 cf**Pond CB43: CB #43**Peak Elev=220.53' Inflow=0.53 cfs 1,783 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' Outflow=0.53 cfs 1,783 cf**Pond CB44: CB #44**Peak Elev=220.45' Inflow=0.23 cfs 838 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' Outflow=0.23 cfs 838 cf**Pond CB45: CB #45**Peak Elev=221.61' Inflow=0.29 cfs 1,063 cf
12.0" Round Culvert n=0.013 L=18.2' S=0.0049 ' Outflow=0.29 cfs 1,063 cf**Pond CB46: CB #46**Peak Elev=221.79' Inflow=0.19 cfs 691 cf
12.0" Round Culvert n=0.013 L=15.3' S=0.0052 ' Outflow=0.19 cfs 691 cf**Pond CB47: CB#47**Peak Elev=225.37' Inflow=0.42 cfs 1,542 cf
12.0" Round Culvert n=0.012 L=20.9' S=0.0373 ' Outflow=0.42 cfs 1,542 cf**Pond CB48: CB#48**Peak Elev=225.63' Inflow=4.02 cfs 15,193 cf
15.0" Round Culvert n=0.012 L=16.9' S=0.0278 ' Outflow=4.02 cfs 15,193 cf**Pond CB49: CB#49**Peak Elev=216.65' Inflow=0.49 cfs 1,538 cf
12.0" Round Culvert n=0.012 L=15.4' S=0.0156 ' Outflow=0.49 cfs 1,538 cf

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Pond CB5: CB#5Peak Elev=212.42' Inflow=0.20 cfs 734 cf
12.0" Round Culvert n=0.012 L=30.5' S=0.0049 ' Outflow=0.20 cfs 734 cf**Pond CB50: CB#50**Peak Elev=215.84' Inflow=0.44 cfs 1,393 cf
12.0" Round Culvert n=0.012 L=17.3' S=0.0497 ' Outflow=0.44 cfs 1,393 cf**Pond CB51: CB #51**Peak Elev=210.33' Inflow=1.29 cfs 4,361 cf
12.0" Round Culvert n=0.013 L=16.9' S=0.0047 ' Outflow=1.29 cfs 4,361 cf**Pond CB6: CB#6**Peak Elev=212.65' Inflow=0.25 cfs 918 cf
12.0" Round Culvert n=0.012 L=38.3' S=0.0112 ' Outflow=0.25 cfs 918 cf**Pond CB7: CB#7**Peak Elev=215.22' Inflow=1.33 cfs 4,226 cf
12.0" Round Culvert n=0.013 L=104.0' S=0.0088 ' Outflow=1.33 cfs 4,226 cf**Pond CB8: CB#8**Peak Elev=215.20' Inflow=2.50 cfs 11,119 cf
12.0" Round Culvert n=0.013 L=12.1' S=0.0050 ' Outflow=2.50 cfs 11,119 cf**Pond CB9: CB #9**Peak Elev=210.90' Inflow=1.95 cfs 6,686 cf
12.0" Round Culvert n=0.013 L=19.9' S=0.0196 ' Outflow=1.95 cfs 6,686 cf**Pond D1: DMH#1**Peak Elev=204.93' Inflow=15.29 cfs 70,099 cf
30.0" Round Culvert n=0.013 L=24.6' S=0.0049 ' Outflow=15.29 cfs 70,099 cf**Pond D10: DMH #10**Peak Elev=203.90' Inflow=0.83 cfs 2,645 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 ' Outflow=0.83 cfs 2,645 cf**Pond D11: DMH #11**Peak Elev=205.87' Inflow=4.39 cfs 14,864 cf
15.0" Round Culvert n=0.013 L=44.6' S=0.0049 ' Outflow=4.39 cfs 14,864 cf**Pond D12: DMH #12**Peak Elev=204.45' Inflow=2.77 cfs 9,467 cf
12.0" Round Culvert n=0.013 L=41.9' S=0.0050 ' Outflow=2.77 cfs 9,467 cf**Pond D13: DMH #13**Peak Elev=203.45' Inflow=8.13 cfs 30,339 cf
24.0" Round Culvert n=0.013 L=60.1' S=0.0050 ' Outflow=8.13 cfs 30,339 cf**Pond D14: DMH #14**Peak Elev=205.44' Inflow=3.88 cfs 13,573 cf
15.0" Round Culvert n=0.012 L=246.6' S=0.0050 ' Outflow=3.88 cfs 13,573 cf**Pond D16: DMH #16**Peak Elev=205.75' Inflow=1.48 cfs 5,328 cf
15.0" Round Culvert n=0.012 L=103.5' S=0.0050 ' Outflow=1.48 cfs 5,328 cf**Pond D17: DMH #17**Peak Elev=201.79' Inflow=3.27 cfs 11,423 cf
12.0" Round Culvert n=0.013 L=91.6' S=0.0312 ' Outflow=3.27 cfs 11,423 cf**Pond D18: DMH #18**Peak Elev=198.69' Inflow=4.56 cfs 15,659 cf
15.0" Round Culvert n=0.013 L=46.3' S=0.0099 ' Outflow=4.56 cfs 15,659 cf**Pond D19: DMH #19**Peak Elev=206.21' Inflow=2.44 cfs 8,168 cf
12.0" Round Culvert n=0.013 L=82.5' S=0.0092 ' Outflow=2.44 cfs 8,168 cf**Pond D2: DMH#2**Peak Elev=207.83' Inflow=13.34 cfs 61,925 cf
30.0" Round Culvert n=0.013 L=129.9' S=0.0145 ' Outflow=13.34 cfs 61,925 cf

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Pond D20: DMH #20Peak Elev=205.43' Inflow=2.44 cfs 8,168 cf
12.0" Round Culvert n=0.013 L=63.5' S=0.0049 ' ' Outflow=2.44 cfs 8,168 cf**Pond D21: DMH #21**Peak Elev=204.53' Inflow=8.33 cfs 28,342 cf
24.0" Round Culvert n=0.013 L=72.4' S=0.0050 ' ' Outflow=8.33 cfs 28,342 cf**Pond D22: DMH #22**Peak Elev=205.81' Inflow=3.00 cfs 10,539 cf
15.0" Round Culvert n=0.013 L=134.2' S=0.0071 ' ' Outflow=3.00 cfs 10,539 cf**Pond D23: DMH #23**Peak Elev=207.30' Inflow=1.49 cfs 5,416 cf
15.0" Round Culvert n=0.013 L=173.3' S=0.0100 ' ' Outflow=1.49 cfs 5,416 cf**Pond D24: DMH #24**Peak Elev=208.43' Inflow=0.17 cfs 622 cf
12.0" Round Culvert n=0.013 L=140.9' S=0.0077 ' ' Outflow=0.17 cfs 622 cf**Pond D25: DMH #25**Peak Elev=210.36' Inflow=8.11 cfs 27,515 cf
18.0" Round Culvert n=0.012 L=78.6' S=0.0051 ' ' Outflow=8.11 cfs 27,515 cf**Pond D26: DMH #26**Peak Elev=209.24' Inflow=8.11 cfs 27,515 cf
24.0" Round Culvert n=0.013 L=127.0' S=0.0050 ' ' Outflow=8.11 cfs 27,515 cf**Pond D27: DMH #27**Peak Elev=214.49' Inflow=4.48 cfs 15,076 cf
15.0" Round Culvert n=0.012 L=247.1' S=0.0195 ' ' Outflow=4.48 cfs 15,076 cf**Pond D28: DMH #28**Peak Elev=217.87' Inflow=2.29 cfs 7,689 cf
15.0" Round Culvert n=0.013 L=189.5' S=0.0196 ' ' Outflow=2.29 cfs 7,689 cf**Pond D29: DMH #29**Peak Elev=220.41' Inflow=1.24 cfs 4,374 cf
12.0" Round Culvert n=0.013 L=118.4' S=0.0193 ' ' Outflow=1.24 cfs 4,374 cf**Pond D3: DMH#3**Peak Elev=212.37' Inflow=10.17 cfs 47,438 cf
24.0" Round Culvert n=0.012 L=282.0' S=0.0146 ' ' Outflow=10.17 cfs 47,438 cf**Pond D30: DMH #30**Peak Elev=221.33' Inflow=0.48 cfs 1,754 cf
12.0" Round Culvert n=0.013 L=184.2' S=0.0050 ' ' Outflow=0.48 cfs 1,754 cf**Pond D31: DMH#31**Peak Elev=225.09' Inflow=4.32 cfs 16,735 cf
15.0" Round Culvert n=0.012 L=158.7' S=0.0598 ' ' Outflow=4.32 cfs 16,735 cf**Pond D32: DMH#32**Peak Elev=215.77' Inflow=5.06 cfs 19,666 cf
15.0" Round Culvert n=0.012 L=122.0' S=0.0050 ' ' Outflow=5.06 cfs 19,666 cf**Pond D33: DMH #33**Peak Elev=208.53' Inflow=9.40 cfs 31,875 cf
24.0" Round Culvert n=0.013 L=39.0' S=0.0051 ' ' Outflow=9.40 cfs 31,875 cf**Pond D34: DMH #34**Peak Elev=198.23' Inflow=4.73 cfs 16,956 cf
15.0" Round Culvert n=0.012 L=51.0' S=0.0049 ' ' Outflow=4.73 cfs 16,956 cf**Pond D4: DMH#4**Peak Elev=213.96' Inflow=8.15 cfs 35,011 cf
24.0" Round Culvert n=0.012 L=131.1' S=0.0125 ' ' Outflow=8.15 cfs 35,011 cf

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Pond D5: DMH #5

Peak Elev=210.39' Inflow=4.94 cfs 16,858 cf
18.0" Round Culvert n=0.013 L=183.0' S=0.0050 '/' Outflow=4.94 cfs 16,858 cf

Pond D6: DMH #6

Peak Elev=209.30' Inflow=4.94 cfs 16,858 cf
18.0" Round Culvert n=0.013 L=299.7' S=0.0050 '/' Outflow=4.94 cfs 16,858 cf

Pond D7: DMH #7

Peak Elev=207.33' Inflow=7.17 cfs 24,176 cf
24.0" Round Culvert n=0.013 L=101.8' S=0.0050 '/' Outflow=7.17 cfs 24,176 cf

Pond D8: DMH #8

Peak Elev=201.65' Inflow=2.21 cfs 7,416 cf
12.0" Round Culvert n=0.013 L=87.7' S=0.0050 '/' Outflow=2.21 cfs 7,416 cf

Pond D9: DMH #9

Peak Elev=201.06' Inflow=2.21 cfs 7,416 cf
12.0" Round Culvert n=0.013 L=11.9' S=0.0050 '/' Outflow=2.21 cfs 7,416 cf

Pond DE1: DRIP #1

Peak Elev=223.98' Storage=257 cf Inflow=0.37 cfs 1,275 cf
Discarded=0.00 cfs 96 cf Primary=0.34 cfs 979 cf Outflow=0.35 cfs 1,075 cf

Pond DE10: DRIP #10

Peak Elev=213.95' Storage=227 cf Inflow=0.33 cfs 1,155 cf
Discarded=0.00 cfs 88 cf Primary=0.31 cfs 889 cf Outflow=0.31 cfs 976 cf

Pond DE11: DRIP #11

Peak Elev=212.98' Storage=258 cf Inflow=0.37 cfs 1,301 cf
Discarded=0.00 cfs 98 cf Primary=0.35 cfs 1,004 cf Outflow=0.35 cfs 1,101 cf

Pond DE12: DRIP #12

Peak Elev=212.23' Storage=230 cf Inflow=0.43 cfs 1,520 cf
Discarded=0.00 cfs 113 cf Primary=0.40 cfs 1,251 cf Outflow=0.40 cfs 1,363 cf

Pond DE13: DRIP #13

Peak Elev=212.16' Storage=333 cf Inflow=0.56 cfs 1,985 cf
Discarded=0.00 cfs 119 cf Primary=0.50 cfs 1,628 cf Outflow=0.50 cfs 1,747 cf

Pond DE14: DRIP #14

Peak Elev=210.35' Storage=227 cf Inflow=0.33 cfs 1,155 cf
Discarded=0.00 cfs 88 cf Primary=0.31 cfs 889 cf Outflow=0.31 cfs 976 cf

Pond DE15: DRIP #15

Peak Elev=209.69' Storage=220 cf Inflow=0.26 cfs 893 cf
Discarded=0.00 cfs 85 cf Primary=0.24 cfs 630 cf Outflow=0.24 cfs 715 cf

Pond DE16: DRIP #16

Peak Elev=209.25' Storage=227 cf Inflow=0.33 cfs 1,155 cf
Discarded=0.00 cfs 88 cf Primary=0.31 cfs 889 cf Outflow=0.31 cfs 976 cf

Pond DE17: DRIP #17

Peak Elev=204.98' Storage=202 cf Inflow=0.25 cfs 838 cf
Discarded=0.00 cfs 73 cf Primary=0.24 cfs 600 cf Outflow=0.24 cfs 673 cf

Pond DE18: DRIP #18

Peak Elev=206.77' Storage=256 cf Inflow=0.36 cfs 1,196 cf
Discarded=0.00 cfs 90 cf Primary=0.33 cfs 906 cf Outflow=0.33 cfs 997 cf

Pond DE19: DRIP #19

Peak Elev=207.54' Storage=226 cf Inflow=0.32 cfs 1,062 cf
Discarded=0.00 cfs 81 cf Primary=0.30 cfs 802 cf Outflow=0.30 cfs 883 cf

Pond DE2: DRIP #2

Peak Elev=223.38' Storage=184 cf Inflow=0.25 cfs 857 cf
Discarded=0.00 cfs 82 cf Primary=0.24 cfs 631 cf Outflow=0.24 cfs 713 cf

Pond DE20: DRIP #20

Peak Elev=208.17' Storage=219 cf Inflow=0.25 cfs 820 cf
Discarded=0.00 cfs 79 cf Primary=0.23 cfs 563 cf Outflow=0.23 cfs 642 cf

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Pond DE21: DRIP #21	Peak Elev=208.58' Storage=203 cf Inflow=0.25 cfs 856 cf Discarded=0.00 cfs 74 cf Primary=0.24 cfs 616 cf Outflow=0.24 cfs 691 cf
Pond DE22: DRIP #22	Peak Elev=209.53' Storage=305 cf Inflow=0.43 cfs 1,520 cf Discarded=0.00 cfs 113 cf Primary=0.40 cfs 1,176 cf Outflow=0.40 cfs 1,289 cf
Pond DE23: DRIP #23	Peak Elev=209.92' Storage=209 cf Inflow=0.32 cfs 1,107 cf Discarded=0.00 cfs 82 cf Primary=0.30 cfs 858 cf Outflow=0.30 cfs 940 cf
Pond DE24: DRIP #24	Peak Elev=211.08' Storage=322 cf Inflow=0.37 cfs 1,301 cf Discarded=0.00 cfs 98 cf Primary=0.35 cfs 939 cf Outflow=0.35 cfs 1,037 cf
Pond DE25: DRIP #25	Peak Elev=211.28' Storage=258 cf Inflow=0.37 cfs 1,301 cf Discarded=0.00 cfs 98 cf Primary=0.35 cfs 1,004 cf Outflow=0.35 cfs 1,101 cf
Pond DE26: DRIP #26	Peak Elev=211.94' Storage=211 cf Inflow=0.32 cfs 1,107 cf Discarded=0.00 cfs 82 cf Primary=0.30 cfs 858 cf Outflow=0.30 cfs 940 cf
Pond DE27: DRIP #27	Peak Elev=212.55' Storage=111 cf Inflow=0.33 cfs 1,155 cf Discarded=0.00 cfs 88 cf Primary=0.31 cfs 1,005 cf Outflow=0.31 cfs 1,092 cf
Pond DE28: DRIP #28	Peak Elev=213.45' Storage=227 cf Inflow=0.33 cfs 1,155 cf Discarded=0.00 cfs 88 cf Primary=0.31 cfs 889 cf Outflow=0.31 cfs 976 cf
Pond DE29: DRIP #29	Peak Elev=213.44' Storage=146 cf Inflow=0.32 cfs 1,107 cf Discarded=0.00 cfs 82 cf Primary=0.30 cfs 923 cf Outflow=0.30 cfs 1,005 cf
Pond DE3: DRIP #3	Peak Elev=222.74' Storage=211 cf Inflow=0.31 cfs 1,085 cf Discarded=0.00 cfs 80 cf Primary=0.30 cfs 837 cf Outflow=0.30 cfs 918 cf
Pond DE30: DRIP #30	Peak Elev=213.73' Storage=200 cf Inflow=0.37 cfs 1,301 cf Discarded=0.00 cfs 98 cf Primary=0.35 cfs 1,062 cf Outflow=0.35 cfs 1,160 cf
Pond DE31: DRIP #31	Peak Elev=213.98' Storage=258 cf Inflow=0.37 cfs 1,301 cf Discarded=0.00 cfs 98 cf Primary=0.35 cfs 1,004 cf Outflow=0.35 cfs 1,101 cf
Pond DE32: DRIP #32	Peak Elev=213.34' Storage=211 cf Inflow=0.32 cfs 1,107 cf Discarded=0.00 cfs 82 cf Primary=0.30 cfs 858 cf Outflow=0.30 cfs 940 cf
Pond DE33: DRIP #33	Peak Elev=212.49' Storage=220 cf Inflow=0.26 cfs 893 cf Discarded=0.00 cfs 85 cf Primary=0.24 cfs 630 cf Outflow=0.24 cfs 715 cf
Pond DE34: DRIP #34	Peak Elev=212.46' Storage=332 cf Inflow=0.56 cfs 1,945 cf Discarded=0.00 cfs 116 cf Primary=0.49 cfs 1,590 cf Outflow=0.50 cfs 1,707 cf
Pond DE35: DRIP #35	Peak Elev=211.16' Storage=332 cf Inflow=0.56 cfs 1,945 cf Discarded=0.00 cfs 116 cf Primary=0.49 cfs 1,590 cf Outflow=0.50 cfs 1,707 cf
Pond DE36: DRIP #36	Peak Elev=208.53' Storage=230 cf Inflow=0.43 cfs 1,520 cf Discarded=0.00 cfs 113 cf Primary=0.40 cfs 1,251 cf Outflow=0.40 cfs 1,363 cf

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Pond DE37: DRIP #37	Peak Elev=209.53' Storage=230 cf Inflow=0.43 cfs 1,489 cf Discarded=0.00 cfs 110 cf Primary=0.40 cfs 1,222 cf Outflow=0.40 cfs 1,333 cf
Pond DE38: DRIP #39	Peak Elev=210.98' Storage=257 cf Inflow=0.37 cfs 1,275 cf Discarded=0.00 cfs 96 cf Primary=0.34 cfs 979 cf Outflow=0.35 cfs 1,075 cf
Pond DE39: DRIP #39	Peak Elev=211.94' Storage=211 cf Inflow=0.31 cfs 1,085 cf Discarded=0.00 cfs 80 cf Primary=0.30 cfs 837 cf Outflow=0.30 cfs 918 cf
Pond DE4: DRIP #4	Peak Elev=220.98' Storage=257 cf Inflow=0.37 cfs 1,275 cf Discarded=0.00 cfs 96 cf Primary=0.34 cfs 979 cf Outflow=0.35 cfs 1,075 cf
Pond DE40: DRIP #40	Peak Elev=212.98' Storage=257 cf Inflow=0.37 cfs 1,275 cf Discarded=0.00 cfs 96 cf Primary=0.34 cfs 979 cf Outflow=0.35 cfs 1,075 cf
Pond DE41: DRIP #41	Peak Elev=213.98' Storage=257 cf Inflow=0.37 cfs 1,275 cf Discarded=0.00 cfs 96 cf Primary=0.34 cfs 979 cf Outflow=0.35 cfs 1,075 cf
Pond DE42: DRIP #42	Peak Elev=214.89' Storage=203 cf Inflow=0.26 cfs 893 cf Discarded=0.00 cfs 77 cf Primary=0.25 cfs 652 cf Outflow=0.25 cfs 729 cf
Pond DE43: DRIP #43	Peak Elev=215.89' Storage=203 cf Inflow=0.26 cfs 893 cf Discarded=0.00 cfs 77 cf Primary=0.25 cfs 652 cf Outflow=0.25 cfs 729 cf
Pond DE44: DRIP #44	Peak Elev=217.89' Storage=203 cf Inflow=0.26 cfs 893 cf Discarded=0.00 cfs 77 cf Primary=0.25 cfs 652 cf Outflow=0.25 cfs 729 cf
Pond DE45: DRIP #45	Peak Elev=218.94' Storage=211 cf Inflow=0.31 cfs 1,085 cf Discarded=0.00 cfs 80 cf Primary=0.30 cfs 837 cf Outflow=0.30 cfs 918 cf
Pond DE47: DRIP #47	Peak Elev=218.53' Storage=230 cf Inflow=0.43 cfs 1,489 cf Discarded=0.00 cfs 110 cf Primary=0.40 cfs 1,222 cf Outflow=0.40 cfs 1,333 cf
Pond DE48: DRIP #48	Peak Elev=216.88' Storage=219 cf Inflow=0.25 cfs 857 cf Discarded=0.00 cfs 82 cf Primary=0.24 cfs 597 cf Outflow=0.24 cfs 678 cf
Pond DE49: DRIP #49	Peak Elev=214.89' Storage=203 cf Inflow=0.26 cfs 893 cf Discarded=0.00 cfs 77 cf Primary=0.25 cfs 652 cf Outflow=0.25 cfs 729 cf
Pond DE5: DRIP #5	Peak Elev=220.54' Storage=211 cf Inflow=0.31 cfs 1,085 cf Discarded=0.00 cfs 80 cf Primary=0.30 cfs 837 cf Outflow=0.30 cfs 918 cf
Pond DE61: DRIP #61	Peak Elev=213.54' Storage=359 cf Inflow=0.80 cfs 2,756 cf Discarded=0.00 cfs 197 cf Primary=0.65 cfs 2,409 cf Outflow=0.65 cfs 2,606 cf
Pond DE62: DRIP #62	Peak Elev=213.54' Storage=359 cf Inflow=0.80 cfs 2,756 cf Discarded=0.00 cfs 197 cf Primary=0.65 cfs 2,409 cf Outflow=0.65 cfs 2,606 cf
Pond DE63: DRIP #63	Peak Elev=208.06' Storage=172 cf Inflow=0.46 cfs 1,624 cf Discarded=0.00 cfs 122 cf Primary=0.42 cfs 1,414 cf Outflow=0.42 cfs 1,535 cf
Pond DE64: DRIP #64	Peak Elev=206.17' Storage=221 cf Inflow=0.58 cfs 2,022 cf Discarded=0.00 cfs 142 cf Primary=0.49 cfs 1,775 cf Outflow=0.49 cfs 1,917 cf

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Pond DE65: DRIP #65	Peak Elev=207.06' Storage=172 cf Inflow=0.46 cfs 1,624 cf Discarded=0.00 cfs 122 cf Primary=0.42 cfs 1,414 cf Outflow=0.42 cfs 1,535 cf
Pond DE66: DRIP #66	Peak Elev=208.97' Storage=221 cf Inflow=0.58 cfs 2,022 cf Discarded=0.00 cfs 142 cf Primary=0.49 cfs 1,775 cf Outflow=0.49 cfs 1,917 cf
Pond DE67: DRIP #67	Peak Elev=209.17' Storage=221 cf Inflow=0.58 cfs 2,022 cf Discarded=0.00 cfs 142 cf Primary=0.49 cfs 1,775 cf Outflow=0.49 cfs 1,917 cf
Pond DE68: DRIP #68	Peak Elev=208.23' Storage=330 cf Inflow=0.80 cfs 2,813 cf Discarded=0.00 cfs 201 cf Primary=0.65 cfs 2,466 cf Outflow=0.66 cfs 2,667 cf
Pond DE69: DRIP #69	Peak Elev=206.67' Storage=221 cf Inflow=0.58 cfs 2,022 cf Discarded=0.00 cfs 142 cf Primary=0.49 cfs 1,775 cf Outflow=0.49 cfs 1,917 cf
Pond DE7: DRIP #7	Peak Elev=212.45' Storage=227 cf Inflow=0.33 cfs 1,155 cf Discarded=0.00 cfs 88 cf Primary=0.31 cfs 889 cf Outflow=0.31 cfs 976 cf
Pond DE70: DRIP #70	Peak Elev=207.07' Storage=221 cf Inflow=0.58 cfs 2,022 cf Discarded=0.00 cfs 142 cf Primary=0.49 cfs 1,775 cf Outflow=0.49 cfs 1,917 cf
Pond DE71: DRIP #71	Peak Elev=207.85' Storage=361 cf Inflow=0.80 cfs 2,813 cf Discarded=0.00 cfs 201 cf Primary=0.66 cfs 2,462 cf Outflow=0.66 cfs 2,663 cf
Pond DE8: DRIP #8	Peak Elev=213.54' Storage=211 cf Inflow=0.32 cfs 1,107 cf Discarded=0.00 cfs 82 cf Primary=0.30 cfs 858 cf Outflow=0.30 cfs 940 cf
Pond DE9: DRIP #9	Peak Elev=213.88' Storage=258 cf Inflow=0.37 cfs 1,301 cf Discarded=0.00 cfs 98 cf Primary=0.35 cfs 1,004 cf Outflow=0.35 cfs 1,101 cf
Pond DECH: DRIP #CH	Peak Elev=209.96' Storage=500 cf Inflow=0.84 cfs 3,068 cf Discarded=0.04 cfs 1,720 cf Primary=0.41 cfs 1,348 cf Outflow=0.45 cfs 3,067 cf
Pond OCS1: OCS#1	Peak Elev=196.73' Inflow=9.28 cfs 32,614 cf Outflow=9.28 cfs 32,614 cf
Pond OCS3: OCS#3	Peak Elev=205.35' Inflow=6.82 cfs 23,735 cf Outflow=6.82 cfs 23,735 cf
Pond OCS4: OCS#4	Peak Elev=205.12' Inflow=1.78 cfs 6,140 cf Outflow=1.78 cfs 6,140 cf
Pond P204: STORMTECH INFILTRATION	Peak Elev=205.11' Storage=9,899 cf Inflow=8.59 cfs 29,875 cf Discarded=0.09 cfs 6,091 cf Primary=4.55 cfs 21,364 cf Outflow=4.64 cfs 27,456 cf
Pond P205: POCKET WETLAND #2	Peak Elev=202.10' Storage=43,722 cf Inflow=20.31 cfs 92,785 cf Outflow=4.95 cfs 72,930 cf
Pond P206: STORMTECH INFILTRATION	Peak Elev=196.42' Storage=7,571 cf Inflow=9.28 cfs 32,614 cf Discarded=0.49 cfs 23,125 cf Primary=5.50 cfs 9,486 cf Outflow=5.99 cfs 32,610 cf

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Pond P207: INFILTRATION POND #2 Peak Elev=198.27' Storage=16,026 cf Inflow=13.65 cfs 48,425 cf
Discarded=1.02 cfs 36,579 cf Primary=1.96 cfs 11,830 cf Outflow=2.98 cfs 48,408 cf

Pond P210: POCKET WETLAND #1 Peak Elev=204.70' Storage=21,112 cf Inflow=12.30 cfs 41,588 cf
Outflow=4.80 cfs 24,274 cf

Pond P212: INFILTRATION POND #1 Peak Elev=202.75' Storage=36,110 cf Inflow=26.62 cfs 110,843 cf
Discarded=2.11 cfs 75,597 cf Primary=11.39 cfs 35,219 cf Outflow=13.50 cfs 110,816 cf

Link AP1: ANALYSIS POINT 1 Inflow=1.50 cfs 5,055 cf
Primary=1.50 cfs 5,055 cf

Link AP2: ANALYSIS POINT 2 Inflow=30.93 cfs 246,738 cf
Primary=30.93 cfs 246,738 cf

Link AP3: ANALYSIS POINT 3 Inflow=4.12 cfs 13,012 cf
Primary=4.12 cfs 13,012 cf

Link AP4: ANALYSIS POINT #4 Inflow=40.32 cfs 344,849 cf
Primary=40.32 cfs 344,849 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 822,389 cf Average Runoff Depth = 3.83"
76.27% Pervious = 1,963,068 sf 23.73% Impervious = 610,852 sf

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Summary for Subcatchment B1: MULTIFAMILY BLDG #1

Runoff = 3.47 cfs @ 12.09 hrs, Volume= 12,650 cf, Depth> 6.05"
 Routed to Pond D34 : DMH #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
21,440	98	Roofs, HSG C
3,659	98	Roofs, HSG D
25,099	98	Weighted Average
25,099		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment B2: MULTIFAMILY BLDG #2

Runoff = 2.43 cfs @ 12.09 hrs, Volume= 8,871 cf, Depth> 6.05"
 Routed to Pond OCS3 : OCS#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
7,721	98	Roofs, HSG A
9,881	98	Roofs, HSG C
17,602	98	Weighted Average
17,602		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C1: CB #1

Runoff = 1.75 cfs @ 12.22 hrs, Volume= 7,357 cf, Depth> 3.32"
 Routed to Pond CB1 : CB#1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
8,351	61	>75% Grass cover, Good, HSG B
6,375	98	Paved parking, HSG B
11,862	68	1 acre lots, 20% imp, HSG B
26,588	73	Weighted Average
17,841		67.10% Pervious Area
8,747		32.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
1.4	60	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.1	89	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	214	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
16.1	413	Total			

Summary for Subcatchment C10: CB #10

Runoff = 1.33 cfs @ 12.09 hrs, Volume= 4,774 cf, Depth> 5.93"
 Routed to Pond CB10 : CB #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
352	98	Paved parking, HSG B
517	74	>75% Grass cover, Good, HSG C
7,341	98	Paved parking, HSG C
1,450	98	Paved parking, HSG D
9,660	97	Weighted Average
517		5.35% Pervious Area
9,143		94.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C11: CB #11

Runoff = 1.66 cfs @ 12.09 hrs, Volume= 5,398 cf, Depth> 4.68"
 Routed to Pond CB11 : CB #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
6,773	74	>75% Grass cover, Good, HSG C
7,061	98	Paved parking, HSG C
13,834	86	Weighted Average
6,773		48.96% Pervious Area
7,061		51.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C12: CB #12

Runoff = 1.13 cfs @ 12.09 hrs, Volume= 3,657 cf, Depth> 4.57"
 Routed to Pond CB12 : CB #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
5,034	74	>75% Grass cover, Good, HSG C
4,562	98	Paved parking, HSG C
9,596	85	Weighted Average
5,034		52.46% Pervious Area
4,562		47.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C13: CB #13

Runoff = 1.10 cfs @ 12.09 hrs, Volume= 3,661 cf, Depth> 5.13"
 Routed to Pond CB13 : CB #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,771	74	>75% Grass cover, Good, HSG C
5,801	98	Paved parking, HSG C
8,572	90	Weighted Average
2,771		32.33% Pervious Area
5,801		67.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C14: CB #14

Runoff = 1.53 cfs @ 12.09 hrs, Volume= 4,949 cf, Depth> 4.57"
 Routed to Pond CB14 : CB #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,696	39	>75% Grass cover, Good, HSG A
8,015	98	Paved parking, HSG A
473	74	>75% Grass cover, Good, HSG C
1,802	98	Paved parking, HSG C
12,986	85	Weighted Average
3,169		24.40% Pervious Area
9,817		75.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C15: CB #15

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 2,467 cf, Depth> 6.05"
 Routed to Pond CB15 : CB #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
4,739	98	Paved parking, HSG A
156	98	Paved parking, HSG C
4,895	98	Weighted Average
4,895		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C16: CB #16

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 2,645 cf, Depth> 3.94"
 Routed to Pond CB16 : CB #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
2,405	39	>75% Grass cover, Good, HSG A
4,302	98	Paved parking, HSG A
454	74	>75% Grass cover, Good, HSG C
902	98	Paved parking, HSG C
8,063	79	Weighted Average
2,859		35.46% Pervious Area
5,204		64.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C17: CB #17

Runoff = 1.58 cfs @ 12.09 hrs, Volume= 5,395 cf, Depth> 5.47"
 Routed to Pond CB17 : CB #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,620	74	>75% Grass cover, Good, HSG C
9,225	98	Paved parking, HSG C
11,845	93	Weighted Average
2,620		22.12% Pervious Area
9,225		77.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C18: CB #18

Runoff = 2.44 cfs @ 12.09 hrs, Volume= 8,122 cf, Depth> 5.13"
 Routed to Pond CB18 : CB #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
6,388	74	>75% Grass cover, Good, HSG C
12,388	98	Paved parking, HSG C
240	98	Roofs, HSG C
19,016	90	Weighted Average
6,388		33.59% Pervious Area
12,628		66.41% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C2: CB #2

Runoff = 2.45 cfs @ 12.09 hrs, Volume= 8,174 cf, Depth> 5.13"
 Routed to Pond CB2 : CB#2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,249	61	>75% Grass cover, Good, HSG B
7,607	98	Paved parking, HSG B
2,714	74	>75% Grass cover, Good, HSG C
6,568	98	Paved parking, HSG C
19,138	90	Weighted Average
4,963		25.93% Pervious Area
14,175		74.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C20: CB #20

Runoff = 1.56 cfs @ 12.09 hrs, Volume= 5,326 cf, Depth> 5.47"
 Routed to Pond CB20 : CB #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,366	98	Paved parking, HSG A
2,399	74	>75% Grass cover, Good, HSG C
7,929	98	Paved parking, HSG C
11,694	93	Weighted Average
2,399		20.51% Pervious Area
9,295		79.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment C21: CB #21

Runoff = 1.21 cfs @ 12.09 hrs, Volume= 4,141 cf, Depth> 5.47"
 Routed to Pond CB21 : CB #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
769	39	>75% Grass cover, Good, HSG A
7,590	98	Paved parking, HSG A
734	98	Paved parking, HSG C
9,093	93	Weighted Average
769		8.46% Pervious Area
8,324		91.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C22: CB #22

Runoff = 1.25 cfs @ 12.09 hrs, Volume= 4,427 cf, Depth> 5.81"
 Routed to Pond CB22 : CB #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
280	74	>75% Grass cover, Good, HSG C
2,641	98	Paved parking, HSG C
810	80	>75% Grass cover, Good, HSG D
5,408	98	Paved parking, HSG D
9,139	96	Weighted Average
1,090		11.93% Pervious Area
8,049		88.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C23: CB #23

Runoff = 1.15 cfs @ 12.09 hrs, Volume= 3,818 cf, Depth> 5.01"
 Routed to Pond CB23 : CB #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
272	39	>75% Grass cover, Good, HSG A
2,987	98	Paved parking, HSG A
1,099	74	>75% Grass cover, Good, HSG C
55	98	Paved parking, HSG C
2,042	80	>75% Grass cover, Good, HSG D
2,684	98	Paved parking, HSG D
9,139	89	Weighted Average
3,413		37.35% Pervious Area
5,726		62.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C24: CB #24

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 974 cf, Depth> 6.05"
 Routed to Pond CB24 : CB #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,933	98	Paved parking, HSG D
1,933		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C25: CB #25

Runoff = 1.21 cfs @ 12.09 hrs, Volume= 4,354 cf, Depth> 5.93"
 Routed to Pond CB25 : CB #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
15	74	>75% Grass cover, Good, HSG C
299	98	Paved parking, HSG C
335	80	>75% Grass cover, Good, HSG D
8,162	98	Paved parking, HSG D
8,811	97	Weighted Average
350		3.97% Pervious Area
8,461		96.03% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C26: CB #26

Runoff = 1.91 cfs @ 12.09 hrs, Volume= 6,480 cf, Depth> 5.35"
 Routed to Pond CB26 : CB #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
5,135	80	>75% Grass cover, Good, HSG D
9,397	98	Paved parking, HSG D
14,532	92	Weighted Average
5,135		35.34% Pervious Area
9,397		64.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C27: CB #27

Runoff = 1.36 cfs @ 12.09 hrs, Volume= 4,943 cf, Depth> 6.05"
 Routed to Pond CB27 : CB #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
763	98	Paved parking, HSG A
9,045	98	Paved parking, HSG D
9,808	98	Weighted Average
9,808		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C28: CB #28

Runoff = 1.29 cfs @ 12.09 hrs, Volume= 4,235 cf, Depth> 4.90"
 Routed to Pond CB28 : CB #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
2,749	74	>75% Grass cover, Good, HSG C
2,841	98	Paved parking, HSG C
2,296	80	>75% Grass cover, Good, HSG D
2,482	98	Paved parking, HSG D
10,368	88	Weighted Average
5,045		48.66% Pervious Area
5,323		51.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C29: CB #29

Runoff = 0.90 cfs @ 12.09 hrs, Volume= 3,096 cf, Depth> 5.47"
 Routed to Pond CB29 : CB #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,549	74	>75% Grass cover, Good, HSG C
5,249	98	Paved parking, HSG C
6,798	93	Weighted Average
1,549		22.79% Pervious Area
5,249		77.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C3: CB #3

Runoff = 2.17 cfs @ 12.09 hrs, Volume= 7,130 cf, Depth> 4.90"
 Routed to Pond CB3 : CB#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
4,878	61	>75% Grass cover, Good, HSG B
12,576	98	Paved parking, HSG B
17,454	88	Weighted Average
4,878		27.95% Pervious Area
12,576		72.05% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C30: CB #30

Runoff = 1.53 cfs @ 12.09 hrs, Volume= 5,072 cf, Depth> 5.01"
 Routed to Pond CB30 : CB #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
4,380	74	>75% Grass cover, Good, HSG C
7,761	98	Paved parking, HSG C
12,141	89	Weighted Average
4,380		36.08% Pervious Area
7,761		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C31: CB #31

Runoff = 1.52 cfs @ 12.09 hrs, Volume= 5,123 cf, Depth> 5.24"
 Routed to Pond CB31 : CB #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,369	74	>75% Grass cover, Good, HSG C
8,367	98	Paved parking, HSG C
11,736	91	Weighted Average
3,369		28.71% Pervious Area
8,367		71.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C32: CB #32

Runoff = 1.36 cfs @ 12.09 hrs, Volume= 4,512 cf, Depth> 5.01"
 Routed to Pond CB32 : CB #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
4,013	74	>75% Grass cover, Good, HSG C
6,788	98	Paved parking, HSG C
10,801	89	Weighted Average
4,013		37.15% Pervious Area
6,788		62.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C33: CB #33

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 2,056 cf, Depth> 5.47"
 Routed to Pond CB33 : CB #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
995	74	>75% Grass cover, Good, HSG C
3,519	98	Paved parking, HSG C
4,514	93	Weighted Average
995		22.04% Pervious Area
3,519		77.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C34: CB #34

Runoff = 0.91 cfs @ 12.09 hrs, Volume= 3,067 cf, Depth> 5.24"
 Routed to Pond CB34 : CB #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,924	74	>75% Grass cover, Good, HSG C
5,103	98	Paved parking, HSG C
7,027	91	Weighted Average
1,924		27.38% Pervious Area
5,103		72.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C35: CB #35

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,457 cf, Depth> 6.05"
 Routed to Pond CB35 : CB #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,891	98	Paved parking, HSG C
2,891		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C36: CB #36

Runoff = 0.92 cfs @ 12.09 hrs, Volume= 3,337 cf, Depth> 6.05"
 Routed to Pond CB36 : CB #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
6,622	98	Paved parking, HSG C
6,622		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C37: CB #37

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 622 cf, Depth> 5.93"
 Routed to Pond CB37 : CB #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
687	98	Paved parking, HSG C
79	80	>75% Grass cover, Good, HSG D
492	98	Paved parking, HSG D
1,258	97	Weighted Average
79		6.28% Pervious Area
1,179		93.72% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C38: CB #38

Runoff = 2.56 cfs @ 12.09 hrs, Volume= 8,521 cf, Depth> 5.13"
 Routed to Pond CB38 : CB #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
4,460	61	>75% Grass cover, Good, HSG B
14,500	98	Paved parking, HSG B
38	74	>75% Grass cover, Good, HSG C
355	98	Paved parking, HSG C
81	80	>75% Grass cover, Good, HSG D
517	98	Paved parking, HSG D
19,951	90	Weighted Average
4,579		22.95% Pervious Area
15,372		77.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C39: CB #39

Runoff = 1.07 cfs @ 12.09 hrs, Volume= 3,918 cf, Depth> 6.05"
 Routed to Pond CB39 : CB #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
9	61	>75% Grass cover, Good, HSG B
6,543	98	Paved parking, HSG B
45	74	>75% Grass cover, Good, HSG C
517	98	Paved parking, HSG C
67	80	>75% Grass cover, Good, HSG D
592	98	Paved parking, HSG D
7,773	98	Weighted Average
121		1.56% Pervious Area
7,652		98.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment C4: CB #4

Runoff = 2.27 cfs @ 12.31 hrs, Volume= 10,775 cf, Depth> 2.93"
 Routed to Pond CB4 : CB#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
7,248	61	>75% Grass cover, Good, HSG B
3,633	98	Paved parking, HSG B
33,287	68	1 acre lots, 20% imp, HSG B
44,168	69	Weighted Average
33,878		76.70% Pervious Area
10,290		23.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
7.4	316	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.4	109	0.0360	1.33		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	70	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
21.4	545	Total			

Summary for Subcatchment C40: CB #40

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,296 cf, Depth> 6.05"
 Routed to Pond CB40 : CB #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
4,556	98	Paved parking, HSG B
4,556		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C41: CB #41

Runoff = 1.56 cfs @ 12.09 hrs, Volume= 5,091 cf, Depth> 4.79"
 Routed to Pond CB41 : CB #41

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,917	61	>75% Grass cover, Good, HSG B
8,833	98	Paved parking, HSG B
12,750	87	Weighted Average
3,917		30.72% Pervious Area
8,833		69.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C42: CB #42

Runoff = 1.05 cfs @ 12.09 hrs, Volume= 3,315 cf, Depth> 3.53"
 Routed to Pond CB42 : CB #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
7,160	61	>75% Grass cover, Good, HSG B
4,117	98	Paved parking, HSG B
11,277	75	Weighted Average
7,160		63.49% Pervious Area
4,117		36.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C43: CB #43

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 1,783 cf, Depth> 5.24"
 Routed to Pond CB43 : CB #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
751	61	>75% Grass cover, Good, HSG B
3,333	98	Paved parking, HSG B
4,084	91	Weighted Average
751		18.39% Pervious Area
3,333		81.61% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C44: CB #44

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 838 cf, Depth> 6.05"
 Routed to Pond CB44 : CB #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,662	98	Paved parking, HSG B
1,662		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C45: CB #45

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,063 cf, Depth> 6.05"
 Routed to Pond CB45 : CB #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,109	98	Paved parking, HSG B
2,109		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C46: CB #46

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 691 cf, Depth> 6.05"
 Routed to Pond CB46 : CB #46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,371	98	Paved parking, HSG B
1,371		100.00% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C47: CB#47

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,542 cf, Depth> 6.05"
 Routed to Pond CB47 : CB#47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,060	98	Paved parking, HSG B
3,060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C48: CB#48

Runoff = 4.02 cfs @ 12.17 hrs, Volume= 15,193 cf, Depth> 3.03"
 Routed to Pond CB48 : CB#48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
4,469	98	Paved parking, HSG B
55,697	68	1 acre lots, 20% imp, HSG B
60,166	70	Weighted Average
44,558		74.06% Pervious Area
15,608		25.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
4.8	350	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.8	400	Total			

Summary for Subcatchment C49: CB#49

Runoff = 0.49 cfs @ 12.09 hrs, Volume= 1,538 cf, Depth> 3.13"
 Routed to Pond CB49 : CB#49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
4,236	61	>75% Grass cover, Good, HSG B
1,659	98	Paved parking, HSG B
5,895	71	Weighted Average
4,236		71.86% Pervious Area
1,659		28.14% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C5: CB #5

Runoff = 0.20 cfs @ 12.09 hrs, Volume= 734 cf, Depth> 6.05"
 Routed to Pond CB5 : CB#5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,337	98	Paved parking, HSG B
119	98	Paved parking, HSG D
1,456	98	Weighted Average
1,456		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C50: CB#50

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,393 cf, Depth> 3.23"
 Routed to Pond CB50 : CB#50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,639	61	>75% Grass cover, Good, HSG B
813	55	Woods, Good, HSG B
1,723	98	Paved parking, HSG B
5,175	72	Weighted Average
3,452		66.71% Pervious Area
1,723		33.29% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C51: CB #51

Runoff = 1.29 cfs @ 12.09 hrs, Volume= 4,361 cf, Depth> 5.35"
 Routed to Pond CB51 : CB #51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,525	61	>75% Grass cover, Good, HSG B
8,254	98	Paved parking, HSG B
9,779	92	Weighted Average
1,525		15.59% Pervious Area
8,254		84.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C6: CB #6

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 918 cf, Depth> 6.05"
 Routed to Pond CB6 : CB#6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,821	98	Paved parking, HSG B
1,821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C7: CB #7

Runoff = 1.33 cfs @ 12.09 hrs, Volume= 4,226 cf, Depth> 3.94"
 Routed to Pond CB7 : CB#7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
6,625	61	>75% Grass cover, Good, HSG B
6,258	98	Paved parking, HSG B
12,883	79	Weighted Average
6,625		51.42% Pervious Area
6,258		48.58% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C8: CB #8

Runoff = 2.50 cfs @ 12.26 hrs, Volume= 11,119 cf, Depth> 3.03"
 Routed to Pond CB8 : CB#8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
8,724	61	>75% Grass cover, Good, HSG B
4,940	98	Paved parking, HSG B
30,434	68	1 acre lots, 20% imp, HSG B
44,098	70	Weighted Average
33,071		74.99% Pervious Area
11,027		25.01% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
5.1	304	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	91	0.0430	3.34		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.4	75	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
18.2	520	Total			

Summary for Subcatchment C9: CB #9

Runoff = 1.95 cfs @ 12.09 hrs, Volume= 6,686 cf, Depth> 5.47"
 Routed to Pond CB9 : CB #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
54	98	Paved parking, HSG B
3,264	74	>75% Grass cover, Good, HSG C
10,424	98	Paved parking, HSG C
939	98	Paved parking, HSG D
14,681	93	Weighted Average
3,264		22.23% Pervious Area
11,417		77.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment CH1: CLUBHOUSE

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 3,068 cf, Depth> 6.05"
 Routed to Pond DECH : DRIP #CH

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
6,087	98	Roofs, HSG C
6,087		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H1: SF #1

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf, Depth> 5.58"
 Routed to Pond DE1 : DRIP #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H10: SF #10

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf, Depth> 5.70"
 Routed to Pond DE10 : DRIP #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H11: SF #11

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf, Depth> 5.70"
 Routed to Pond DE11 : DRIP #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H12: SF #12

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,520 cf, Depth> 5.70"
 Routed to Pond DE12 : DRIP #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H13: SF #13

Runoff = 0.56 cfs @ 12.09 hrs, Volume= 1,985 cf, Depth> 5.81"
 Routed to Pond DE13 : DRIP #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,715	98	Roofs, HSG C
383	74	>75% Grass cover, Good, HSG C
4,098	96	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H14: SF #14

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf, Depth> 5.70"
 Routed to Pond DE14 : DRIP #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H15: SF #15

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 893 cf, Depth> 5.58"
 Routed to Pond DE15 : DRIP #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H16: SF #16

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf, Depth> 5.70"
 Routed to Pond DE16 : DRIP #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H17: SF #17

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 838 cf, Depth> 5.13"
 Routed to Pond DE17 : DRIP #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG A
267	39	>75% Grass cover, Good, HSG A
1,961	90	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H18: SF #18

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 1,196 cf, Depth> 5.24"
 Routed to Pond DE18 : DRIP #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG A
323	39	>75% Grass cover, Good, HSG A
2,741	91	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H19: SF #19

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,062 cf, Depth> 5.24"
 Routed to Pond DE19 : DRIP #19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,144	98	Roofs, HSG A
290	39	>75% Grass cover, Good, HSG A
2,434	91	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H2: SF #2

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 857 cf, Depth> 5.35"
 Routed to Pond DE2 : DRIP #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H20: SF #20

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 820 cf, Depth> 5.13"
 Routed to Pond DE20 : DRIP #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,085	98	Roofs, HSG A
214	39	>75% Grass cover, Good, HSG A
546	98	Roofs, HSG C
76	74	>75% Grass cover, Good, HSG C
1,921	90	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H21: SF #21

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 856 cf, Depth> 5.24"
 Routed to Pond DE21 : DRIP #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
793	98	Roofs, HSG A
190	39	>75% Grass cover, Good, HSG A
900	98	Roofs, HSG C
78	74	>75% Grass cover, Good, HSG C
1,961	91	Weighted Average
268		13.67% Pervious Area
1,693		86.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H22: SF #22

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,520 cf, Depth> 5.70"
 Routed to Pond DE22 : DRIP #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H23: SF #23

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf, Depth> 5.70"
 Routed to Pond DE23 : DRIP #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H24: SF #24

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf, Depth> 5.70"
 Routed to Pond DE24 : DRIP #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H25: SF #25

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf, Depth> 5.70"
 Routed to Pond DE25 : DRIP #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H26: SF #26

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf, Depth> 5.70"
 Routed to Pond DE26 : DRIP #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H27: SF #27

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf, Depth> 5.70"
 Routed to Pond DE27 : DRIP #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H28: SF #28

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf, Depth> 5.70"
 Routed to Pond DE28 : DRIP #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H29: SF #29

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf, Depth> 5.70"
 Routed to Pond DE29 : DRIP #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H3: SF #3

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf, Depth> 5.58"
 Routed to Pond DE3 : DRIP #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H30: SF #30

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf, Depth> 5.70"
 Routed to Pond DE30 : DRIP #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H31: SF #31

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf, Depth> 5.70"
 Routed to Pond DE31 : DRIP #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H32: SF #32

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf, Depth> 5.70"
 Routed to Pond DE32 : DRIP #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H33: SF #33

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 893 cf, Depth> 5.58"
 Routed to Pond DE33 : DRIP #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H34: SF #34

Runoff = 0.56 cfs @ 12.09 hrs, Volume= 1,945 cf, Depth> 5.70"
 Routed to Pond DE34 : DRIP #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H35: SF #35

Runoff = 0.56 cfs @ 12.09 hrs, Volume= 1,945 cf, Depth> 5.70"
 Routed to Pond DE35 : DRIP #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H36: SF #36

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,520 cf, Depth> 5.70"
 Routed to Pond DE36 : DRIP #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
352	98	Roofs, HSG B
135	61	>75% Grass cover, Good, HSG B
2,477	98	Roofs, HSG C
238	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H37: SF #37

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,489 cf, Depth> 5.58"
 Routed to Pond DE37 : DRIP #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

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Type III 24-hr 25YR Rainfall=6.29"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H38: SF #38

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf, Depth> 5.58"
 Routed to Pond DE38 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H39: SF #39

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf, Depth> 5.58"
 Routed to Pond DE39 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H4: SF #4

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf, Depth> 5.58"
 Routed to Pond DE4 : DRIP #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H40: SF #40

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf, Depth> 5.58"
 Routed to Pond DE40 : DRIP #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H41: SF #41

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf, Depth> 5.58"
 Routed to Pond DE41 : DRIP #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H42: SF #42

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 893 cf, Depth> 5.47"
 Routed to Pond DE42 : DRIP #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H43: SF #43

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 893 cf, Depth> 5.47"
 Routed to Pond DE43 : DRIP #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H44: SF #44

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 893 cf, Depth> 5.47"
 Routed to Pond DE44 : DRIP #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H45: SF #45

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf, Depth> 5.58"
 Routed to Pond DE45 : DRIP #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H46: SF #46

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 1,489 cf, Depth> 5.58"
 Routed to Pond DE47 : DRIP #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H47: SF #47

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 857 cf, Depth> 5.35"
 Routed to Pond DE48 : DRIP #48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H48: SF #48

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 893 cf, Depth> 5.47"
 Routed to Pond DE49 : DRIP #49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H5: SF #5

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf, Depth> 5.58"
 Routed to Pond DE5 : DRIP #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H7: SF #7

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf, Depth> 5.70"
 Routed to Pond DE7 : DRIP #7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H8: SF #8

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf, Depth> 5.70"
 Routed to Pond DE8 : DRIP #8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment H9: SF #9

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf, Depth> 5.70"
 Routed to Pond DE9 : DRIP #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S201: SUMMER STREET ACCESS APRON

Runoff = 1.50 cfs @ 12.09 hrs, Volume= 5,055 cf, Depth> 5.24"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,253	61	>75% Grass cover, Good, HSG B
9,329	98	Paved parking, HSG B
11,582	91	Weighted Average
2,253		19.45% Pervious Area
9,329		80.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S202: EXISTING WETLAND

Runoff = 27.05 cfs @ 12.30 hrs, Volume= 127,970 cf, Depth> 3.82"
 Routed to Reach SC1 : Stream Crossing #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
153,785	61	>75% Grass cover, Good, HSG B
44,442	55	Woods, Good, HSG B
13,947	98	Paved parking, HSG B
5,507	74	>75% Grass cover, Good, HSG C
16,089	70	Woods, Good, HSG C
127	98	Water Surface, 0% imp, HSG C
651	80	>75% Grass cover, Good, HSG D
167,325	98	Water Surface, 0% imp, HSG D
401,873	78	Weighted Average
387,926		96.53% Pervious Area
13,947		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	50	0.0600	0.16		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
1.9	192	0.0600	1.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.8	314	0.0700	1.85		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.6	493	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
21.5	1,049	Total			

Summary for Subcatchment S203: POCKET WETLAND #1

Runoff = 2.32 cfs @ 12.09 hrs, Volume= 7,304 cf, Depth> 3.43"
 Routed to Pond p210 : POCKET WETLAND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
11,579	61	>75% Grass cover, Good, HSG B
1,816	98	Water Surface, 0% imp, HSG B
331	98	Paved parking, HSG B
8,210	74	>75% Grass cover, Good, HSG C
3,638	98	Water Surface, 0% imp, HSG C
25,574	74	Weighted Average
25,243		98.71% Pervious Area
331		1.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment S204: EXISTING WETLANDS

Runoff = 18.24 cfs @ 12.31 hrs, Volume= 88,128 cf, Depth> 3.92"
 Routed to Link ap2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
44,109	61	>75% Grass cover, Good, HSG B
8,675	55	Woods, Good, HSG B
280	98	Paved parking, HSG B
48,392	74	>75% Grass cover, Good, HSG C
65,808	70	Woods, Good, HSG C
4,065	80	>75% Grass cover, Good, HSG D
2,743	77	Woods, Good, HSG D
95,456	98	Water Surface, 0% imp, HSG D
269,528	79	Weighted Average
269,248		99.90% Pervious Area
280		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.2000	0.26		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
19.4	582	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.6	632	Total			

Summary for Subcatchment S205: ISOLATED WETLAND

Runoff = 4.12 cfs @ 12.09 hrs, Volume= 13,012 cf, Depth> 3.33"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
5,242	39	>75% Grass cover, Good, HSG A
3,607	30	Woods, Good, HSG A
2,667	74	>75% Grass cover, Good, HSG C
1,829	70	Woods, Good, HSG C
6,506	80	>75% Grass cover, Good, HSG D
18,453	77	Woods, Good, HSG D
8,620	98	Water Surface, 0% imp, HSG D
46,924	73	Weighted Average
46,924		100.00% Pervious Area

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Type III 24-hr 25YR Rainfall=6.29"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S206: OVERLAND FLOW

Runoff = 27.11 cfs @ 12.36 hrs, Volume= 137,649 cf, Depth> 2.55"
 Routed to Link AP4 : ANALYSIS POINT #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
57,993	39	>75% Grass cover, Good, HSG A
105,804	30	Woods, Good, HSG A
31,970	30	Brush, Good, HSG A
15,917	61	>75% Grass cover, Good, HSG B
8,415	55	Woods, Good, HSG B
89,799	74	>75% Grass cover, Good, HSG C
91,893	70	Woods, Good, HSG C
10,481	80	>75% Grass cover, Good, HSG D
121,472	77	Woods, Good, HSG D
114,002	98	Water Surface, 0% imp, HSG D
647,746	65	Weighted Average
647,746		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
15.1	745	0.0270	0.82		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
24.3	795	Total			

Summary for Subcatchment S207: INFILTRATION POND #2

Runoff = 2.48 cfs @ 12.09 hrs, Volume= 8,025 cf, Depth> 4.57"
 Routed to Pond P207 : INFILTRATION POND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
586	39	>75% Grass cover, Good, HSG A
252	98	Water Surface, 0% imp, HSG A
10,402	74	>75% Grass cover, Good, HSG C
9,818	98	Water Surface, 0% imp, HSG C
21,058	85	Weighted Average
21,058		100.00% Pervious Area

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Type III 24-hr 25YR Rainfall=6.29"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S208: GRASS AREA

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 3,675 cf, Depth> 3.23"
 Routed to Pond OCS4 : OCS#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
605	39	>75% Grass cover, Good, HSG A
13,051	74	>75% Grass cover, Good, HSG C
13,656	72	Weighted Average
13,656		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S209: WETLAND C

Runoff = 5.73 cfs @ 12.38 hrs, Volume= 29,998 cf, Depth> 3.31"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
17,105	39	>75% Grass cover, Good, HSG A
10,847	30	Woods, Good, HSG A
15,520	74	>75% Grass cover, Good, HSG C
21,139	70	Woods, Good, HSG C
44,067	98	Water Surface, 0% imp, HSG D
108,678	73	Weighted Average
108,678		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	50	0.0150	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
13.6	500	0.0150	0.61		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
27.3	550	Total			

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment S210: INFILTRATION POND #1

Runoff = 9.89 cfs @ 12.22 hrs, Volume= 42,592 cf, Depth> 4.46"
 Routed to Pond P212 : INFILTRATION POND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
2,476	39	>75% Grass cover, Good, HSG A
1,222	98	Paved parking, HSG A
58,519	74	>75% Grass cover, Good, HSG C
25,420	98	Paved parking, HSG C
27,041	98	Water Surface, 0% imp, HSG C
114,678	84	Weighted Average
88,036		76.77% Pervious Area
26,642		23.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0150	0.13		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
10.3	530	0.0150	0.86		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
16.5	580	Total			

Summary for Subcatchment S211: POCKET WETLAND #2

Runoff = 2.86 cfs @ 12.31 hrs, Volume= 13,646 cf, Depth> 3.62"
 Routed to Pond P205 : POCKET WETLAND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
6,834	61	>75% Grass cover, Good, HSG B
13,286	55	Woods, Good, HSG B
7,418	74	>75% Grass cover, Good, HSG C
255	70	Woods, Good, HSG C
17,484	98	Water Surface, 0% imp, HSG C
45,277	76	Weighted Average
45,277		100.00% Pervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	50	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 3.27"
0.8	50	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.1	428	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.0	528	Total			

Summary for Subcatchment S212: SWALE

Runoff = 2.16 cfs @ 12.26 hrs, Volume= 9,654 cf, Depth> 3.72"
 Routed to Reach SC2 : Stream Crossing #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
7,747	61	>75% Grass cover, Good, HSG B
5,761	55	Woods, Good, HSG B
2,263	74	>75% Grass cover, Good, HSG C
2,141	70	Woods, Good, HSG C
661	80	>75% Grass cover, Good, HSG D
12,563	98	Water Surface, 0% imp, HSG D
31,136	77	Weighted Average
31,136		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	50	0.0050	0.06		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
4.7	100	0.0050	0.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.8	150	Total			

Summary for Subcatchment S213: COURTYARD

Runoff = 2.31 cfs @ 12.09 hrs, Volume= 7,348 cf, Depth> 4.15"
 Routed to Pond 11P : YARD DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
3,938	39	>75% Grass cover, Good, HSG A
1,339	98	Paved parking, HSG A
215	98	Roofs, HSG A
2,201	98	Water Surface, 0% imp, HSG A
4,975	74	>75% Grass cover, Good, HSG C
6,390	98	Paved parking, HSG C
637	98	Roofs, HSG C
718	98	Water Surface, 0% imp, HSG C
764	80	>75% Grass cover, Good, HSG D
94	98	Paved parking, HSG D
21,271	81	Weighted Average
12,596		59.22% Pervious Area
8,675		40.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T1: Trench Drain 1

Runoff = 1.26 cfs @ 12.09 hrs, Volume= 4,306 cf, Depth> 5.47"
 Routed to Pond 5R : TRENCH DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
1,281	74	>75% Grass cover, Good, HSG C
4,088	98	Paved parking, HSG C
662	80	>75% Grass cover, Good, HSG D
3,423	98	Paved parking, HSG D
9,454	93	Weighted Average
1,943		20.55% Pervious Area
7,511		79.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T2: Drive Under B2

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 1,929 cf, Depth> 4.15"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
1,582	39	>75% Grass cover, Good, HSG A
2,313	98	Paved parking, HSG A
77	74	>75% Grass cover, Good, HSG C
1,613	98	Paved parking, HSG C
5,585	81	Weighted Average
1,659		29.70% Pervious Area
3,926		70.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH1: TOWN HOUSE #1

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 2,756 cf, Depth> 5.58"
 Routed to Pond DE61 : DRIP #61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH10: TOWN HOUSE #10

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf, Depth> 5.70"
 Routed to Pond DE70 : DRIP #70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

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Type III 24-hr 25YR Rainfall=6.29"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH11: TOWN HOUSE #11

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 2,813 cf, Depth> 5.70"
 Routed to Pond DE71 : DRIP #71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH2: TOWN HOUSE #2

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 2,756 cf, Depth> 5.58"
 Routed to Pond DE62 : DRIP #62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH3: TOWN HOUSE #3

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,624 cf, Depth> 5.70"
 Routed to Pond DE63 : DRIP #63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH4: TOWN HOUSE #4

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf, Depth> 5.70"
 Routed to Pond DE64 : DRIP #64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH5: TOWN HOUSE #5

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,624 cf, Depth> 5.70"
 Routed to Pond DE65 : DRIP #65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 25YR Rainfall=6.29"

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Summary for Subcatchment TH6: TOWN HOUSE #6

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf, Depth> 5.70"
 Routed to Pond DE66 : DRIP #66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH7: TOWN HOUSE #7

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf, Depth> 5.70"
 Routed to Pond DE67 : DRIP #67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH8: TOWN HOUSE #8

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 2,813 cf, Depth> 5.70"
 Routed to Pond DE68 : DRIP #68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

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Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH9: TOWN HOUSE #9

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf, Depth> 5.70"
 Routed to Pond DE69 : DRIP #69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 25YR Rainfall=6.29"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Reach 1R: OVERLAND FLOW

Inflow Area = 12,069 sf, 87.75% Impervious, Inflow Depth > 4.24" for 25YR event
 Inflow = 1.52 cfs @ 12.12 hrs, Volume= 4,265 cf
 Outflow = 0.10 cfs @ 13.77 hrs, Volume= 2,859 cf, Atten= 94%, Lag= 99.0 min
 Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Max. Velocity= 0.05 fps, Min. Travel Time= 456.8 min
 Avg. Velocity = 0.04 fps, Avg. Travel Time= 555.5 min

Peak Storage= 2,632 cf @ 13.77 hrs
 Average Depth at Peak Storage= 0.04' , Surface Width= 50.39'
 Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 22.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
 Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'
 Length= 1,350.0' Slope= 0.0133 ' / '
 Inlet Invert= 218.00', Outlet Invert= 200.00'

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Summary for Reach 3R: OVERLAND FLOW

Inflow Area = 7,508 sf, 88.23% Impervious, Inflow Depth > 4.40" for 25YR event
Inflow = 0.96 cfs @ 12.11 hrs, Volume= 2,751 cf
Outflow = 0.22 cfs @ 12.54 hrs, Volume= 2,542 cf, Atten= 77%, Lag= 25.5 min
Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.08 fps, Min. Travel Time= 98.0 min
Avg. Velocity = 0.04 fps, Avg. Travel Time= 187.7 min

Peak Storage= 1,290 cf @ 12.54 hrs
Average Depth at Peak Storage= 0.07' , Surface Width= 40.67'
Bank-Full Depth= 1.00' Flow Area= 45.0 sf, Capacity= 20.48 cfs

40.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 50.00'
Length= 475.0' Slope= 0.0174 ' / '
Inlet Invert= 211.50', Outlet Invert= 203.25'



Summary for Reach 4R: OVERLAND FLOW

Inflow Area = 12,683 sf, 88.20% Impervious, Inflow Depth > 4.44" for 25YR event
Inflow = 1.62 cfs @ 12.12 hrs, Volume= 4,695 cf
Outflow = 0.40 cfs @ 12.52 hrs, Volume= 4,378 cf, Atten= 75%, Lag= 24.1 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.10 fps, Min. Travel Time= 88.2 min
Avg. Velocity = 0.05 fps, Avg. Travel Time= 188.3 min

Peak Storage= 2,136 cf @ 12.52 hrs
Average Depth at Peak Storage= 0.08' , Surface Width= 51.57'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 30.09 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 535.0' Slope= 0.0224 '/'

Inlet Invert= 202.00', Outlet Invert= 190.00'



Summary for Reach 7R: OVERLAND FLOW

Inflow Area = 8,196 sf, 90.65% Impervious, Inflow Depth > 4.66" for 25YR event

Inflow = 0.99 cfs @ 12.13 hrs, Volume= 3,181 cf

Outflow = 0.17 cfs @ 12.64 hrs, Volume= 2,780 cf, Atten= 83%, Lag= 30.6 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.07 fps, Min. Travel Time= 163.3 min

Avg. Velocity= 0.05 fps, Avg. Travel Time= 267.4 min

Peak Storage= 1,666 cf @ 12.64 hrs

Average Depth at Peak Storage= 0.05' , Surface Width= 50.45'

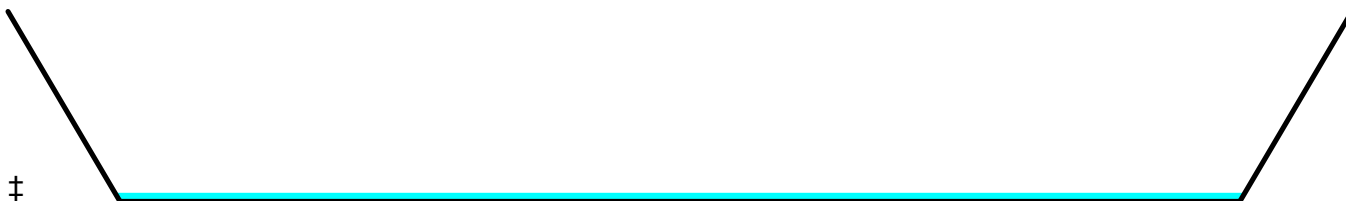
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 30.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 730.0' Slope= 0.0247 '/'

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 8R: OVERLAND FLOW

Inflow Area = 7,815 sf, 88.27% Impervious, Inflow Depth > 4.59" for 25YR event

Inflow = 1.00 cfs @ 12.12 hrs, Volume= 2,989 cf

Outflow = 0.15 cfs @ 12.67 hrs, Volume= 2,578 cf, Atten= 85%, Lag= 33.0 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.07 fps, Min. Travel Time= 181.7 min

Avg. Velocity= 0.04 fps, Avg. Travel Time= 291.6 min

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Peak Storage= 1,606 cf @ 12.67 hrs

Average Depth at Peak Storage= 0.04' , Surface Width= 50.84'

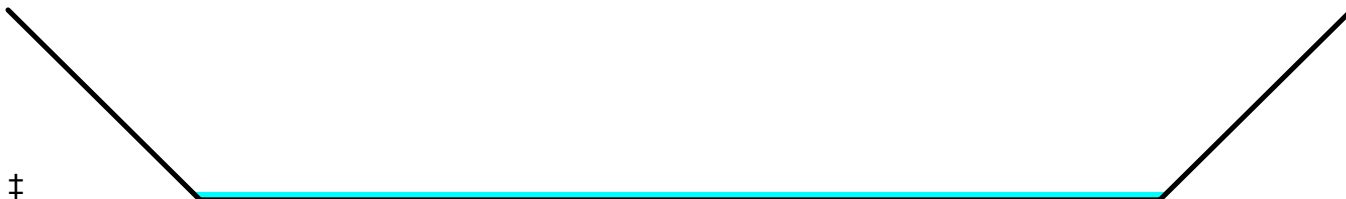
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.01 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 756.0' Slope= 0.0238 '/'

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 9R: OVERLAND FLOW

Inflow Area = 16,553 sf, 87.42% Impervious, Inflow Depth > 4.00" for 25YR event

Inflow = 2.04 cfs @ 12.12 hrs, Volume= 5,523 cf

Outflow = 0.96 cfs @ 12.32 hrs, Volume= 5,383 cf, Atten= 53%, Lag= 12.1 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.22 fps, Min. Travel Time= 29.4 min

Avg. Velocity= 0.08 fps, Avg. Travel Time= 81.1 min

Peak Storage= 1,689 cf @ 12.32 hrs

Average Depth at Peak Storage= 0.17' , Surface Width= 26.72'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 19.23 cfs

25.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 35.00'

Length= 380.0' Slope= 0.0368 '/'

Inlet Invert= 200.00', Outlet Invert= 186.00'



Summary for Reach 10R: OVERLAND FLOW

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth = 1.20" for 25YR event

Inflow = 1.96 cfs @ 12.54 hrs, Volume= 11,830 cf

Outflow = 1.91 cfs @ 12.70 hrs, Volume= 11,829 cf, Atten= 3%, Lag= 9.6 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.29 fps, Min. Travel Time= 9.5 min

Avg. Velocity = 0.09 fps, Avg. Travel Time= 31.8 min

Peak Storage= 1,089 cf @ 12.70 hrs

Average Depth at Peak Storage= 0.29' , Surface Width= 25.80'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 17.57 cfs

20.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 40.00'

Length= 164.0' Slope= 0.0366 '/'

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 11R: 4x4 Open Bottom Culvert

[52] Hint: Inlet/Outlet conditions not evaluated

[62] Hint: Exceeded Reach 20R OUTLET depth by 0.09' @ 12.55 hrs

[61] Hint: Exceeded Reach R211 outlet invert by 0.31' @ 12.60 hrs

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 2.26" for 25YR event

Inflow = 9.39 cfs @ 12.59 hrs, Volume= 87,284 cf

Outflow = 9.39 cfs @ 12.59 hrs, Volume= 87,273 cf, Atten= 0%, Lag= 0.2 min

Routed to Reach 23R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 2.11 fps, Min. Travel Time= 0.2 min

Avg. Velocity = 0.85 fps, Avg. Travel Time= 0.6 min

Peak Storage= 134 cf @ 12.59 hrs

Average Depth at Peak Storage= 1.11' , Surface Width= 4.00'

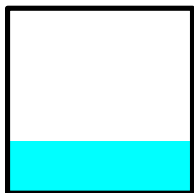
Bank-Full Depth= 4.00' Flow Area= 16.0 sf, Capacity= 42.20 cfs

48.0" W x 48.0" H Box Pipe

n= 0.069 Riprap, 6-inch

Length= 30.0' Slope= 0.0150 '/'

Inlet Invert= 194.00', Outlet Invert= 193.55'



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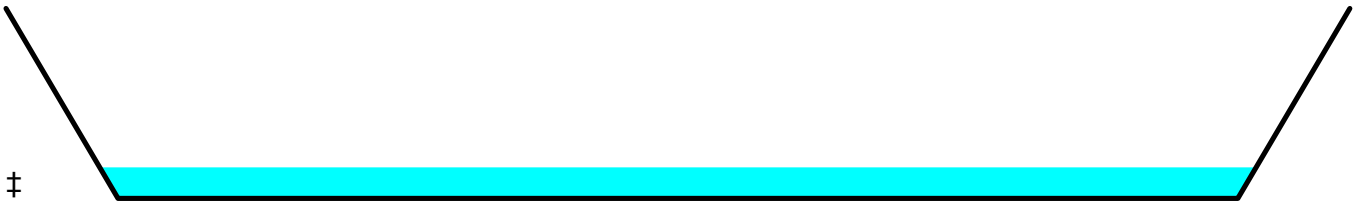
Summary for Reach 12R: OVERLAND FLOW

Inflow Area = 19,621 sf, 88.70% Impervious, Inflow Depth > 4.99" for 25YR event
Inflow = 2.32 cfs @ 12.13 hrs, Volume= 8,152 cf
Outflow = 1.41 cfs @ 12.28 hrs, Volume= 7,997 cf, Atten= 39%, Lag= 9.4 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.17 fps, Min. Travel Time= 24.5 min
Avg. Velocity = 0.06 fps, Avg. Travel Time= 72.4 min

Peak Storage= 2,075 cf @ 12.28 hrs
Average Depth at Peak Storage= 0.16' , Surface Width= 51.63'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 29.80 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'
Length= 250.0' Slope= 0.0240 ' / '
Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 13R: OVERLAND FLOW

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 4.88" for 25YR event
Inflow = 0.65 cfs @ 12.15 hrs, Volume= 2,409 cf
Outflow = 0.11 cfs @ 12.73 hrs, Volume= 2,038 cf, Atten= 84%, Lag= 35.1 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.05 fps, Min. Travel Time= 207.2 min
Avg. Velocity = 0.03 fps, Avg. Travel Time= 327.1 min

Peak Storage= 1,326 cf @ 12.73 hrs
Average Depth at Peak Storage= 0.04' , Surface Width= 50.80'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 24.73 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 660.0' Slope= 0.0152 ' / '
Inlet Invert= 206.00', Outlet Invert= 196.00'

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Summary for Reach 14R: OVERLAND FLOW

Inflow Area = 42,474 sf, 23.18% Impervious, Inflow Depth > 3.83" for 25YR event
Inflow = 2.89 cfs @ 12.22 hrs, Volume= 13,569 cf
Outflow = 0.94 cfs @ 12.74 hrs, Volume= 12,445 cf, Atten= 68%, Lag= 31.5 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.14 fps, Min. Travel Time= 98.2 min
Avg. Velocity = 0.07 fps, Avg. Travel Time= 205.4 min

Peak Storage= 5,519 cf @ 12.74 hrs
Average Depth at Peak Storage= 0.13' , Surface Width= 52.53'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.55 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 852.0' Slope= 0.0246 ' / '
Inlet Invert= 207.00', Outlet Invert= 186.00'



Summary for Reach 15R: OVERLAND FLOW

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 2.73" for 25YR event
Inflow = 4.80 cfs @ 12.35 hrs, Volume= 24,274 cf
Outflow = 2.74 cfs @ 12.60 hrs, Volume= 23,395 cf, Atten= 43%, Lag= 15.3 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.21 fps, Min. Travel Time= 24.0 min
Avg. Velocity = 0.09 fps, Avg. Travel Time= 54.1 min

Peak Storage= 3,945 cf @ 12.60 hrs
Average Depth at Peak Storage= 0.26' , Surface Width= 52.56'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 27.21 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 300.0' Slope= 0.0200 '/'

Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 16R: OVERLAND FLOW

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 4.58" for 25YR event

Inflow = 0.40 cfs @ 12.12 hrs, Volume= 1,222 cf

Outflow = 0.13 cfs @ 12.45 hrs, Volume= 1,180 cf, Atten= 67%, Lag= 19.6 min

Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.07 fps, Min. Travel Time= 63.8 min

Avg. Velocity= 0.03 fps, Avg. Travel Time= 126.9 min

Peak Storage= 501 cf @ 12.45 hrs

Average Depth at Peak Storage= 0.04' , Surface Width= 50.38'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 31.39 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 263.0' Slope= 0.0266 '/'

Inlet Invert= 216.00', Outlet Invert= 209.00'



Summary for Reach 18R: OVERLAND FLOW

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 2.80" for 25YR event

Inflow = 4.95 cfs @ 12.79 hrs, Volume= 72,930 cf

Outflow = 4.24 cfs @ 12.95 hrs, Volume= 71,699 cf, Atten= 14%, Lag= 9.5 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.28 fps, Min. Travel Time= 10.9 min

Avg. Velocity= 0.13 fps, Avg. Travel Time= 24.3 min

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Peak Storage= 2,777 cf @ 12.95 hrs

Average Depth at Peak Storage= 0.29' , Surface Width= 55.71'

Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 36.29 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 184.0' Slope= 0.0326 '/'

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 20R: OVERLAND FLOW

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth > 3.46" for 25YR event

Inflow = 4.55 cfs @ 12.26 hrs, Volume= 21,364 cf

Outflow = 1.63 cfs @ 13.02 hrs, Volume= 20,569 cf, Atten= 64%, Lag= 45.9 min

Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.13 fps, Min. Travel Time= 69.3 min

Avg. Velocity= 0.07 fps, Avg. Travel Time= 136.9 min

Peak Storage= 6,777 cf @ 13.02 hrs

Average Depth at Peak Storage= 0.24' , Surface Width= 52.36'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 18.54 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 560.0' Slope= 0.0093 '/'

Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach 23R: OVERLAND FLOW

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 2.26" for 25YR event

Inflow = 9.39 cfs @ 12.59 hrs, Volume= 87,273 cf

Outflow = 8.77 cfs @ 12.76 hrs, Volume= 86,622 cf, Atten= 7%, Lag= 10.4 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.30 fps, Min. Travel Time= 13.1 min

Avg. Velocity = 0.12 fps, Avg. Travel Time= 33.8 min

Peak Storage= 6,890 cf @ 12.76 hrs

Average Depth at Peak Storage= 0.49' , Surface Width= 69.47'

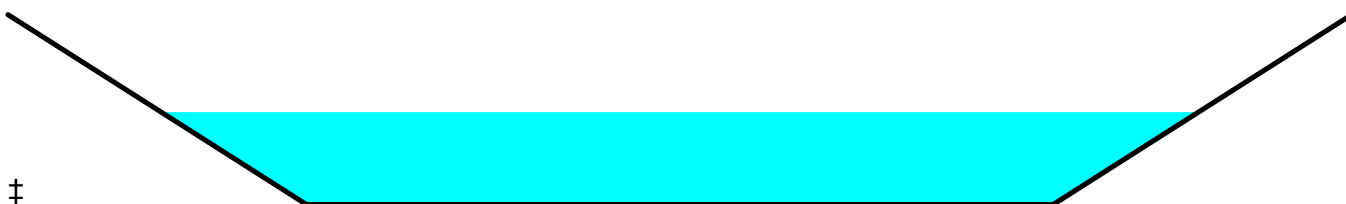
Bank-Full Depth= 1.00' Flow Area= 70.0 sf, Capacity= 31.93 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 20.0 ' / ' Top Width= 90.00'

Length= 237.0' Slope= 0.0211 ' / '

Inlet Invert= 193.00', Outlet Invert= 188.00'



Summary for Reach R202: OVERLAND FLOW

[62] Hint: Exceeded Reach SC1 OUTLET depth by 0.29' @ 12.95 hrs

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 3.82" for 25YR event

Inflow = 27.05 cfs @ 12.30 hrs, Volume= 127,949 cf

Outflow = 13.53 cfs @ 12.65 hrs, Volume= 122,322 cf, Atten= 50%, Lag= 21.3 min

Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.23 fps, Min. Travel Time= 50.5 min

Avg. Velocity = 0.09 fps, Avg. Travel Time= 125.8 min

Peak Storage= 41,014 cf @ 12.65 hrs

Average Depth at Peak Storage= 0.52' , Surface Width= 125.93'

Bank-Full Depth= 1.00' Flow Area= 125.0 sf, Capacity= 42.56 cfs

100.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 25.0 ' / ' Top Width= 150.00'

Length= 700.0' Slope= 0.0107 ' / '

Inlet Invert= 205.50', Outlet Invert= 198.00'



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Summary for Reach R211: OVERLAND FLOW

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth = 1.53" for 25YR event
Inflow = 11.39 cfs @ 12.41 hrs, Volume= 35,219 cf
Outflow = 4.09 cfs @ 12.82 hrs, Volume= 34,788 cf, Atten= 64%, Lag= 24.8 min
Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.19 fps, Min. Travel Time= 51.5 min
Avg. Velocity= 0.08 fps, Avg. Travel Time= 121.4 min

Peak Storage= 12,620 cf @ 12.82 hrs
Average Depth at Peak Storage= 0.50' , Surface Width= 49.87'
Bank-Full Depth= 1.00' Flow Area= 50.0 sf, Capacity= 14.51 cfs

35.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 15.0 ' / ' Top Width= 65.00'
Length= 600.0' Slope= 0.0087 ' / '
Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach SC1: Stream Crossing #1

[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 3.82" for 25YR event
Inflow = 27.05 cfs @ 12.30 hrs, Volume= 127,970 cf
Outflow = 27.05 cfs @ 12.30 hrs, Volume= 127,949 cf, Atten= 0%, Lag= 0.1 min
Routed to Reach R202 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 3.88 fps, Min. Travel Time= 0.2 min
Avg. Velocity= 1.26 fps, Avg. Travel Time= 0.6 min

Peak Storage= 300 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.44' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 69.8 sf, Capacity= 722.91 cfs

192.0" W x 60.0" H, R=207.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 43.1' Slope= 0.0200 ' / '
Inlet Invert= 206.37', Outlet Invert= 205.51'

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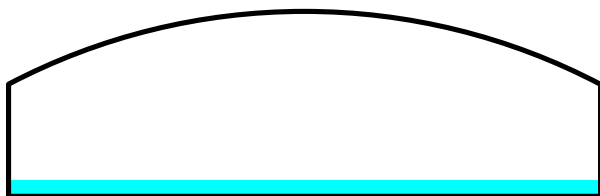
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Summary for Reach SC2: Stream Crossing #2

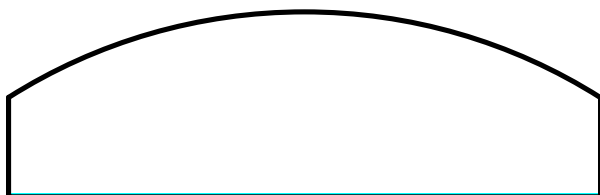
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 38,220 sf, 16.10% Impervious, Inflow Depth > 3.79" for 25YR event
Inflow = 2.55 cfs @ 12.24 hrs, Volume= 12,082 cf
Outflow = 2.55 cfs @ 12.25 hrs, Volume= 12,081 cf, Atten= 0%, Lag= 0.3 min
Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 1.63 fps, Min. Travel Time= 0.4 min
Avg. Velocity= 1.06 fps, Avg. Travel Time= 0.6 min

Peak Storage= 57 cf @ 12.25 hrs
Average Depth at Peak Storage= 0.10' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 68.1 sf, Capacity= 768.96 cfs

192.0" W x 60.0" H, R=180.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 36.5' Slope= 0.0241 '/
Inlet Invert= 208.52', Outlet Invert= 207.64'



Summary for Pond 5R: TRENCH DRAIN

Inflow Area = 9,454 sf, 79.45% Impervious, Inflow Depth > 5.47" for 25YR event
Inflow = 1.26 cfs @ 12.09 hrs, Volume= 4,306 cf
Outflow = 1.26 cfs @ 12.09 hrs, Volume= 4,306 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.26 cfs @ 12.09 hrs, Volume= 4,306 cf
Routed to Pond D34 : DMH #34

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Peak Elev= 198.28' @ 12.09 hrs
Flood Elev= 200.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.00'	15.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 197.00' / 196.88' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

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Primary OutFlow Max=1.23 cfs @ 12.09 hrs HW=198.25' TW=198.20' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.23 cfs @ 1.24 fps)**Summary for Pond 11P: YARD DRAIN**

Inflow Area = 21,271 sf, 40.78% Impervious, Inflow Depth > 4.15" for 25YR event
 Inflow = 2.31 cfs @ 12.09 hrs, Volume= 7,348 cf
 Outflow = 1.75 cfs @ 12.17 hrs, Volume= 7,298 cf, Atten= 24%, Lag= 4.5 min
 Primary = 1.75 cfs @ 12.17 hrs, Volume= 7,298 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 207.41' @ 12.17 hrs Surf.Area= 6,038 sf Storage= 913 cf

Plug-Flow detention time= 16.3 min calculated for 7,283 cf (99% of inflow)
 Center-of-Mass det. time= 12.2 min (821.4 - 809.2)

Volume	Invert	Avail.Storage	Storage Description
#1	207.25'	5,475 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.25	5,050	0	0
208.00	9,550	5,475	5,475

Device	Routing	Invert	Outlet Devices
#1	Primary	203.25'	12.0" Round Culvert L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 203.25' / 202.94' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	207.25'	4.0" x 4.0" Horiz. Orifice/Grate X 4.00 columns X 4 rows C= 0.600 in 24.0" x 24.0" Grate (44% open area) Limited to weir flow at low heads

Primary OutFlow Max=1.72 cfs @ 12.17 hrs HW=207.41' TW=203.26' (Dynamic Tailwater)↑**1=Culvert** (Passes 1.72 cfs of 6.64 cfs potential flow)↑**2=Orifice/Grate** (Weir Controls 1.72 cfs @ 1.32 fps)**Summary for Pond CB1: CB#1**

Inflow Area = 26,588 sf, 32.90% Impervious, Inflow Depth > 3.32" for 25YR event
 Inflow = 1.75 cfs @ 12.22 hrs, Volume= 7,357 cf
 Outflow = 1.75 cfs @ 12.22 hrs, Volume= 7,357 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.75 cfs @ 12.22 hrs, Volume= 7,357 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 208.71' @ 12.22 hrs
 Flood Elev= 211.00'

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Device	Routing	Invert	Outlet Devices
#1	Primary	207.83'	12.0" Round Culvert L= 14.1' Ke= 0.500 Inlet / Outlet Invert= 207.83' / 207.76' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.72 cfs @ 12.22 hrs HW=208.70' TW=207.78' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.72 cfs @ 3.16 fps)**Summary for Pond CB10: CB #10**

Inflow Area = 9,660 sf, 94.65% Impervious, Inflow Depth > 5.93" for 25YR event
 Inflow = 1.33 cfs @ 12.09 hrs, Volume= 4,774 cf
 Outflow = 1.33 cfs @ 12.09 hrs, Volume= 4,774 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.33 cfs @ 12.09 hrs, Volume= 4,774 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.62' @ 12.09 hrs

Flood Elev= 212.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.76'	12.0" Round Culvert L= 33.8' Ke= 0.500 Inlet / Outlet Invert= 209.76' / 209.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.29 cfs @ 12.09 hrs HW=210.60' TW=210.37' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.29 cfs @ 2.49 fps)**Summary for Pond CB11: CB #11**

Inflow Area = 13,834 sf, 51.04% Impervious, Inflow Depth > 4.68" for 25YR event
 Inflow = 1.66 cfs @ 12.09 hrs, Volume= 5,398 cf
 Outflow = 1.66 cfs @ 12.09 hrs, Volume= 5,398 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.66 cfs @ 12.09 hrs, Volume= 5,398 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.76' @ 12.09 hrs

Flood Elev= 213.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.94'	12.0" Round Culvert L= 26.3' Ke= 0.500 Inlet / Outlet Invert= 209.94' / 209.67' S= 0.0103 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.62 cfs @ 12.09 hrs HW=210.74' TW=210.37' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.62 cfs @ 3.29 fps)

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Summary for Pond CB12: CB #12

Inflow Area = 9,596 sf, 47.54% Impervious, Inflow Depth > 4.57" for 25YR event
 Inflow = 1.13 cfs @ 12.09 hrs, Volume= 3,657 cf
 Outflow = 1.13 cfs @ 12.09 hrs, Volume= 3,657 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.13 cfs @ 12.09 hrs, Volume= 3,657 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.37' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.0' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.10 cfs @ 12.09 hrs HW=210.36' TW=207.31' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.10 cfs @ 2.81 fps)**Summary for Pond CB13: CB #13**

Inflow Area = 8,572 sf, 67.67% Impervious, Inflow Depth > 5.13" for 25YR event
 Inflow = 1.10 cfs @ 12.09 hrs, Volume= 3,661 cf
 Outflow = 1.10 cfs @ 12.09 hrs, Volume= 3,661 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.10 cfs @ 12.09 hrs, Volume= 3,661 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.36' @ 12.09 hrs

Flood Elev= 212.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.6' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.07 cfs @ 12.09 hrs HW=210.35' TW=207.31' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.07 cfs @ 2.77 fps)**Summary for Pond CB14: CB #14**

Inflow Area = 12,986 sf, 75.60% Impervious, Inflow Depth > 4.57" for 25YR event
 Inflow = 1.53 cfs @ 12.09 hrs, Volume= 4,949 cf
 Outflow = 1.53 cfs @ 12.09 hrs, Volume= 4,949 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.53 cfs @ 12.09 hrs, Volume= 4,949 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 201.82' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 23.2' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.67' S= 0.0052 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 12.09 hrs HW=201.80' TW=201.63' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.50 cfs @ 2.33 fps)**Summary for Pond CB15: CB #15**

Inflow Area = 4,895 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.68 cfs @ 12.09 hrs, Volume= 2,467 cf
 Outflow = 0.68 cfs @ 12.09 hrs, Volume= 2,467 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.68 cfs @ 12.09 hrs, Volume= 2,467 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.69' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.71' S= 0.0051 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.66 cfs @ 12.09 hrs HW=201.67' TW=201.63' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.66 cfs @ 1.20 fps)**Summary for Pond CB16: CB #16**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 3.94" for 25YR event
 Inflow = 0.83 cfs @ 12.09 hrs, Volume= 2,645 cf
 Outflow = 0.83 cfs @ 12.09 hrs, Volume= 2,645 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.83 cfs @ 12.09 hrs, Volume= 2,645 cf
 Routed to Pond D10 : DMH #10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.09' @ 12.09 hrs

Flood Elev= 206.64'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.47'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 203.47' / 203.33' S= 0.0067 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=204.08' TW=203.89' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.82 cfs @ 2.34 fps)

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Summary for Pond CB17: CB #17

Inflow Area = 11,845 sf, 77.88% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 1.58 cfs @ 12.09 hrs, Volume= 5,395 cf
 Outflow = 1.58 cfs @ 12.09 hrs, Volume= 5,395 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.58 cfs @ 12.09 hrs, Volume= 5,395 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.88' @ 12.09 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.99'	12.0" Round Culvert L= 13.8' Ke= 0.500 Inlet / Outlet Invert= 204.99' / 204.86' S= 0.0094 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.85 cfs @ 12.09 hrs HW=205.86' TW=205.78' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.85 cfs @ 1.57 fps)**Summary for Pond CB18: CB #18**

Inflow Area = 25,103 sf, 74.55% Impervious, Inflow Depth > 4.53" for 25YR event
 Inflow = 2.81 cfs @ 12.09 hrs, Volume= 9,469 cf
 Outflow = 2.81 cfs @ 12.09 hrs, Volume= 9,469 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.81 cfs @ 12.09 hrs, Volume= 9,469 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.91' @ 12.09 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.72'	15.0" Round Culvert L= 25.1' Ke= 0.500 Inlet / Outlet Invert= 204.72' / 204.59' S= 0.0052 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.63 cfs @ 12.09 hrs HW=205.90' TW=205.80' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.63 cfs @ 1.76 fps)**Summary for Pond CB2: CB#2**

Inflow Area = 19,138 sf, 74.07% Impervious, Inflow Depth > 5.13" for 25YR event
 Inflow = 2.45 cfs @ 12.09 hrs, Volume= 8,174 cf
 Outflow = 2.45 cfs @ 12.09 hrs, Volume= 8,174 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.45 cfs @ 12.09 hrs, Volume= 8,174 cf
 Routed to Pond D1 : DMH#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.95' @ 12.09 hrs

Flood Elev= 208.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.86'	12.0" Round Culvert L= 92.1' Ke= 0.500 Inlet / Outlet Invert= 204.86' / 204.40' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.39 cfs @ 12.09 hrs HW=205.93' TW=204.86' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.39 cfs @ 3.55 fps)**Summary for Pond CB20: CB #20**

Inflow Area = 11,694 sf, 79.49% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 1.56 cfs @ 12.09 hrs, Volume= 5,326 cf
 Outflow = 1.56 cfs @ 12.09 hrs, Volume= 5,326 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.56 cfs @ 12.09 hrs, Volume= 5,326 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.79' @ 12.09 hrs

Flood Elev= 207.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.97'	12.0" Round Culvert L= 30.3' Ke= 0.500 Inlet / Outlet Invert= 203.97' / 203.81' S= 0.0053 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.53 cfs @ 12.09 hrs HW=204.77' TW=204.42' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.53 cfs @ 3.11 fps)**Summary for Pond CB21: CB #21**

Inflow Area = 9,093 sf, 91.54% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 1.21 cfs @ 12.09 hrs, Volume= 4,141 cf
 Outflow = 1.21 cfs @ 12.09 hrs, Volume= 4,141 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.21 cfs @ 12.09 hrs, Volume= 4,141 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.02' @ 12.09 hrs

Flood Elev= 208.02'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.32'	12.0" Round Culvert L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 204.32' / 204.19' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.18 cfs @ 12.09 hrs HW=205.00' TW=204.42' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.18 cfs @ 2.90 fps)

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Summary for Pond CB22: CB #22

Inflow Area = 9,139 sf, 88.07% Impervious, Inflow Depth > 5.81" for 25YR event
 Inflow = 1.25 cfs @ 12.09 hrs, Volume= 4,427 cf
 Outflow = 1.25 cfs @ 12.09 hrs, Volume= 4,427 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.25 cfs @ 12.09 hrs, Volume= 4,427 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.04' @ 12.09 hrs

Flood Elev= 208.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.33'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 205.33' / 205.25' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.22 cfs @ 12.09 hrs HW=206.03' TW=205.42' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.22 cfs @ 2.92 fps)**Summary for Pond CB23: CB #23**

Inflow Area = 9,139 sf, 62.65% Impervious, Inflow Depth > 5.01" for 25YR event
 Inflow = 1.15 cfs @ 12.09 hrs, Volume= 3,818 cf
 Outflow = 1.15 cfs @ 12.09 hrs, Volume= 3,818 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.15 cfs @ 12.09 hrs, Volume= 3,818 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.08' @ 12.09 hrs

Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.41'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 205.41' / 205.32' S= 0.0055 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.12 cfs @ 12.09 hrs HW=206.07' TW=205.42' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.12 cfs @ 2.91 fps)**Summary for Pond CB24: CB #24**

Inflow Area = 1,933 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.27 cfs @ 12.09 hrs, Volume= 974 cf
 Outflow = 0.27 cfs @ 12.09 hrs, Volume= 974 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.27 cfs @ 12.09 hrs, Volume= 974 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.77' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.15' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=205.75' TW=205.73' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.26 cfs @ 0.87 fps)**Summary for Pond CB25: CB #25**

Inflow Area = 8,811 sf, 96.03% Impervious, Inflow Depth > 5.93" for 25YR event
 Inflow = 1.21 cfs @ 12.09 hrs, Volume= 4,354 cf
 Outflow = 1.21 cfs @ 12.09 hrs, Volume= 4,354 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.21 cfs @ 12.09 hrs, Volume= 4,354 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.95' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.22'	12.0" Round Culvert L= 11.4' Ke= 0.500 Inlet / Outlet Invert= 205.22' / 205.16' S= 0.0053 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.18 cfs @ 12.09 hrs HW=205.94' TW=205.73' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.18 cfs @ 2.74 fps)**Summary for Pond CB26: CB #26**

Inflow Area = 14,532 sf, 64.66% Impervious, Inflow Depth > 5.35" for 25YR event
 Inflow = 1.91 cfs @ 12.09 hrs, Volume= 6,480 cf
 Outflow = 1.91 cfs @ 12.09 hrs, Volume= 6,480 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.91 cfs @ 12.09 hrs, Volume= 6,480 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.68' @ 12.09 hrs

Flood Elev= 204.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.77'	12.0" Round Culvert L= 42.5' Ke= 0.500 Inlet / Outlet Invert= 201.77' / 201.55' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.86 cfs @ 12.09 hrs HW=202.66' TW=201.76' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.86 cfs @ 3.32 fps)

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Summary for Pond CB27: CB #27

Inflow Area = 9,808 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 1.36 cfs @ 12.09 hrs, Volume= 4,943 cf
 Outflow = 1.36 cfs @ 12.09 hrs, Volume= 4,943 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.36 cfs @ 12.09 hrs, Volume= 4,943 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.95' @ 12.09 hrs

Flood Elev= 204.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.00'	12.0" Round Culvert L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 201.00' / 200.90' S= 0.0056 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.32 cfs @ 12.09 hrs HW=201.92' TW=201.76' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.32 cfs @ 2.29 fps)**Summary for Pond CB28: CB #28**

Inflow Area = 10,368 sf, 51.34% Impervious, Inflow Depth > 4.90" for 25YR event
 Inflow = 1.29 cfs @ 12.09 hrs, Volume= 4,235 cf
 Outflow = 1.29 cfs @ 12.09 hrs, Volume= 4,235 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.29 cfs @ 12.09 hrs, Volume= 4,235 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 198.80' @ 12.09 hrs

Flood Elev= 200.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.75'	12.0" Round Culvert L= 13.7' Ke= 0.500 Inlet / Outlet Invert= 197.75' / 197.69' S= 0.0044 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=198.78' TW=198.67' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.27 cfs @ 1.61 fps)**Summary for Pond CB29: CB #29**

Inflow Area = 6,798 sf, 77.21% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 0.90 cfs @ 12.09 hrs, Volume= 3,096 cf
 Outflow = 0.90 cfs @ 12.09 hrs, Volume= 3,096 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.90 cfs @ 12.09 hrs, Volume= 3,096 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.28' @ 12.09 hrs

Flood Elev= 208.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 13.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.31' S= 0.0052 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.88 cfs @ 12.09 hrs HW=206.26' TW=206.18' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.88 cfs @ 1.61 fps)**Summary for Pond CB3: CB#3**

Inflow Area = 17,454 sf, 72.05% Impervious, Inflow Depth > 4.90" for 25YR event
 Inflow = 2.17 cfs @ 12.09 hrs, Volume= 7,130 cf
 Outflow = 2.17 cfs @ 12.09 hrs, Volume= 7,130 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.17 cfs @ 12.09 hrs, Volume= 7,130 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.81' @ 12.09 hrs

Flood Elev= 210.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	12.0" Round Culvert L= 10.2' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.74' S= 0.0059 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.12 cfs @ 12.09 hrs HW=208.79' TW=207.74' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.12 cfs @ 3.37 fps)**Summary for Pond CB30: CB #30**

Inflow Area = 12,141 sf, 63.92% Impervious, Inflow Depth > 5.01" for 25YR event
 Inflow = 1.53 cfs @ 12.09 hrs, Volume= 5,072 cf
 Outflow = 1.53 cfs @ 12.09 hrs, Volume= 5,072 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.53 cfs @ 12.09 hrs, Volume= 5,072 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.38' @ 12.09 hrs

Flood Elev= 208.54'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 17.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.29' S= 0.0051 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 12.09 hrs HW=206.36' TW=206.19' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.50 cfs @ 2.41 fps)

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Summary for Pond CB31: CB #31

Inflow Area = 11,736 sf, 71.29% Impervious, Inflow Depth > 5.24" for 25YR event
 Inflow = 1.52 cfs @ 12.09 hrs, Volume= 5,123 cf
 Outflow = 1.52 cfs @ 12.09 hrs, Volume= 5,123 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.52 cfs @ 12.09 hrs, Volume= 5,123 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.00' @ 12.09 hrs

Flood Elev= 207.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.49 cfs @ 12.09 hrs HW=204.99' TW=204.51' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.49 cfs @ 3.04 fps)**Summary for Pond CB32: CB #32**

Inflow Area = 10,801 sf, 62.85% Impervious, Inflow Depth > 5.01" for 25YR event
 Inflow = 1.36 cfs @ 12.09 hrs, Volume= 4,512 cf
 Outflow = 1.36 cfs @ 12.09 hrs, Volume= 4,512 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.36 cfs @ 12.09 hrs, Volume= 4,512 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.95' @ 12.09 hrs

Flood Elev= 207.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.33 cfs @ 12.09 hrs HW=204.93' TW=204.51' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.33 cfs @ 2.95 fps)**Summary for Pond CB33: CB #33**

Inflow Area = 4,514 sf, 77.96% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 0.60 cfs @ 12.09 hrs, Volume= 2,056 cf
 Outflow = 0.60 cfs @ 12.09 hrs, Volume= 2,056 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.60 cfs @ 12.09 hrs, Volume= 2,056 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.90' @ 12.09 hrs

Flood Elev= 208.45'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.28'	12.0" Round Culvert L= 11.7' Ke= 0.500 Inlet / Outlet Invert= 205.28' / 205.22' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.09 hrs HW=205.88' TW=205.80' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.59 cfs @ 1.70 fps)**Summary for Pond CB34: CB #34**

Inflow Area = 7,027 sf, 72.62% Impervious, Inflow Depth > 5.24" for 25YR event
 Inflow = 0.91 cfs @ 12.09 hrs, Volume= 3,067 cf
 Outflow = 0.91 cfs @ 12.09 hrs, Volume= 3,067 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.91 cfs @ 12.09 hrs, Volume= 3,067 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.94' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 16.5' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.13' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.89 cfs @ 12.09 hrs HW=205.93' TW=205.80' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.89 cfs @ 2.06 fps)**Summary for Pond CB35: CB #35**

Inflow Area = 2,891 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.40 cfs @ 12.09 hrs, Volume= 1,457 cf
 Outflow = 0.40 cfs @ 12.09 hrs, Volume= 1,457 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.40 cfs @ 12.09 hrs, Volume= 1,457 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.44' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 15.2' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.39 cfs @ 12.09 hrs HW=207.44' TW=207.29' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.39 cfs @ 1.99 fps)

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Summary for Pond CB36: CB #36

Inflow Area = 6,622 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.92 cfs @ 12.09 hrs, Volume= 3,337 cf
 Outflow = 0.92 cfs @ 12.09 hrs, Volume= 3,337 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.92 cfs @ 12.09 hrs, Volume= 3,337 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.64' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.89 cfs @ 12.09 hrs HW=207.63' TW=207.29' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.89 cfs @ 2.66 fps)**Summary for Pond CB37: CB #37**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 5.93" for 25YR event
 Inflow = 0.17 cfs @ 12.09 hrs, Volume= 622 cf
 Outflow = 0.17 cfs @ 12.09 hrs, Volume= 622 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.17 cfs @ 12.09 hrs, Volume= 622 cf
 Routed to Pond D24 : DMH #24

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.28' @ 12.09 hrs

Flood Elev= 212.66'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.07'	12.0" Round Culvert L= 77.2' Ke= 0.500 Inlet / Outlet Invert= 209.07' / 208.31' S= 0.0098 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=209.27' TW=208.42' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.17 cfs @ 2.24 fps)**Summary for Pond CB38: CB #38**

Inflow Area = 19,951 sf, 77.05% Impervious, Inflow Depth > 5.13" for 25YR event
 Inflow = 2.56 cfs @ 12.09 hrs, Volume= 8,521 cf
 Outflow = 2.56 cfs @ 12.09 hrs, Volume= 8,521 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.56 cfs @ 12.09 hrs, Volume= 8,521 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.83' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.7' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0048 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.49 cfs @ 12.09 hrs HW=210.81' TW=210.31' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.49 cfs @ 3.54 fps)**Summary for Pond CB39: CB #39**

Inflow Area = 7,773 sf, 98.44% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 1.07 cfs @ 12.09 hrs, Volume= 3,918 cf
 Outflow = 1.07 cfs @ 12.09 hrs, Volume= 3,918 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.07 cfs @ 12.09 hrs, Volume= 3,918 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.49' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.05 cfs @ 12.09 hrs HW=210.46' TW=210.31' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.05 cfs @ 2.24 fps)**Summary for Pond CB4: CB#4**

Inflow Area = 44,168 sf, 23.30% Impervious, Inflow Depth > 2.93" for 25YR event
 Inflow = 2.27 cfs @ 12.31 hrs, Volume= 10,775 cf
 Outflow = 2.27 cfs @ 12.31 hrs, Volume= 10,775 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.27 cfs @ 12.31 hrs, Volume= 10,775 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.94' @ 12.31 hrs

Flood Elev= 215.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.02'	15.0" Round Culvert L= 13.1' Ke= 0.500 Inlet / Outlet Invert= 212.02' / 211.96' S= 0.0046 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.26 cfs @ 12.31 hrs HW=212.94' TW=212.24' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.26 cfs @ 3.27 fps)

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Summary for Pond CB40: CB #40

Inflow Area = 4,556 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,296 cf
 Outflow = 0.63 cfs @ 12.09 hrs, Volume= 2,296 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.63 cfs @ 12.09 hrs, Volume= 2,296 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.54' @ 12.09 hrs

Flood Elev= 216.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.68'	12.0" Round Culvert L= 26.7' Ke= 0.500 Inlet / Outlet Invert= 213.68' / 213.55' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=214.51' TW=214.46' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.61 cfs @ 1.19 fps)**Summary for Pond CB41: CB #41**

Inflow Area = 12,750 sf, 69.28% Impervious, Inflow Depth > 4.79" for 25YR event
 Inflow = 1.56 cfs @ 12.09 hrs, Volume= 5,091 cf
 Outflow = 1.56 cfs @ 12.09 hrs, Volume= 5,091 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.56 cfs @ 12.09 hrs, Volume= 5,091 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.75' @ 12.09 hrs

Flood Elev= 217.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.89'	12.0" Round Culvert L= 18.4' Ke= 0.500 Inlet / Outlet Invert= 213.89' / 213.80' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.52 cfs @ 12.09 hrs HW=214.73' TW=214.46' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.52 cfs @ 2.92 fps)**Summary for Pond CB42: CB #42**

Inflow Area = 11,277 sf, 36.51% Impervious, Inflow Depth > 3.53" for 25YR event
 Inflow = 1.05 cfs @ 12.09 hrs, Volume= 3,315 cf
 Outflow = 1.05 cfs @ 12.09 hrs, Volume= 3,315 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.05 cfs @ 12.09 hrs, Volume= 3,315 cf
 Routed to Pond D28 : DMH #28

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 218.49' @ 12.09 hrs

Flood Elev= 221.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.91'	12.0" Round Culvert L= 58.1' Ke= 0.500 Inlet / Outlet Invert= 217.91' / 217.47' S= 0.0076 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.03 cfs @ 12.09 hrs HW=218.48' TW=217.87' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.03 cfs @ 3.23 fps)**Summary for Pond CB43: CB #43**

Inflow Area = 4,084 sf, 81.61% Impervious, Inflow Depth > 5.24" for 25YR event
 Inflow = 0.53 cfs @ 12.09 hrs, Volume= 1,783 cf
 Outflow = 0.53 cfs @ 12.09 hrs, Volume= 1,783 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.53 cfs @ 12.09 hrs, Volume= 1,783 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.53' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=220.52' TW=220.41' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.52 cfs @ 1.84 fps)**Summary for Pond CB44: CB #44**

Inflow Area = 1,662 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.23 cfs @ 12.09 hrs, Volume= 838 cf
 Outflow = 0.23 cfs @ 12.09 hrs, Volume= 838 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.23 cfs @ 12.09 hrs, Volume= 838 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.45' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.09 hrs HW=220.44' TW=220.41' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.22 cfs @ 0.99 fps)

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Summary for Pond CB45: CB #45

Inflow Area = 2,109 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,063 cf
 Outflow = 0.29 cfs @ 12.09 hrs, Volume= 1,063 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.09 hrs, Volume= 1,063 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.61' @ 12.09 hrs

Flood Elev= 224.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.29'	12.0" Round Culvert L= 18.2' Ke= 0.500 Inlet / Outlet Invert= 221.29' / 221.20' S= 0.0049 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.09 hrs HW=221.61' TW=221.32' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.28 cfs @ 1.99 fps)**Summary for Pond CB46: CB #46**

Inflow Area = 1,371 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.19 cfs @ 12.09 hrs, Volume= 691 cf
 Outflow = 0.19 cfs @ 12.09 hrs, Volume= 691 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.19 cfs @ 12.09 hrs, Volume= 691 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.79' @ 12.09 hrs

Flood Elev= 224.69'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.53'	12.0" Round Culvert L= 15.3' Ke= 0.500 Inlet / Outlet Invert= 221.53' / 221.45' S= 0.0052 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.18 cfs @ 12.09 hrs HW=221.78' TW=221.32' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.18 cfs @ 1.79 fps)**Summary for Pond CB47: CB#47**

Inflow Area = 3,060 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.42 cfs @ 12.09 hrs, Volume= 1,542 cf
 Outflow = 0.42 cfs @ 12.09 hrs, Volume= 1,542 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.42 cfs @ 12.09 hrs, Volume= 1,542 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 225.37' @ 12.09 hrs

Flood Elev= 228.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	225.05'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 225.05' / 224.27' S= 0.0373 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.09 hrs HW=225.37' TW=224.93' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.41 cfs @ 1.92 fps)**Summary for Pond CB48: CB#48**

Inflow Area = 60,166 sf, 25.94% Impervious, Inflow Depth > 3.03" for 25YR event
 Inflow = 4.02 cfs @ 12.17 hrs, Volume= 15,193 cf
 Outflow = 4.02 cfs @ 12.17 hrs, Volume= 15,193 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.02 cfs @ 12.17 hrs, Volume= 15,193 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 225.63' @ 12.17 hrs

Flood Elev= 228.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	224.47'	15.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 224.47' / 224.00' S= 0.0278 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.94 cfs @ 12.17 hrs HW=225.61' TW=225.07' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 3.94 cfs @ 4.41 fps)**Summary for Pond CB49: CB#49**

Inflow Area = 5,895 sf, 28.14% Impervious, Inflow Depth > 3.13" for 25YR event
 Inflow = 0.49 cfs @ 12.09 hrs, Volume= 1,538 cf
 Outflow = 0.49 cfs @ 12.09 hrs, Volume= 1,538 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.49 cfs @ 12.09 hrs, Volume= 1,538 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 216.65' @ 12.09 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	216.30'	12.0" Round Culvert L= 15.4' Ke= 0.500 Inlet / Outlet Invert= 216.30' / 216.06' S= 0.0156 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.48 cfs @ 12.09 hrs HW=216.64' TW=215.62' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.48 cfs @ 2.00 fps)

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Summary for Pond CB5: CB#5

Inflow Area = 1,456 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.20 cfs @ 12.09 hrs, Volume= 734 cf
 Outflow = 0.20 cfs @ 12.09 hrs, Volume= 734 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.20 cfs @ 12.09 hrs, Volume= 734 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.42' @ 12.15 hrs

Flood Elev= 215.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.11'	12.0" Round Culvert L= 30.5' Ke= 0.500 Inlet / Outlet Invert= 212.11' / 211.96' S= 0.0049 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 12.09 hrs HW=212.39' TW=212.23' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.21 cfs @ 1.71 fps)**Summary for Pond CB50: CB#50**

Inflow Area = 5,175 sf, 33.29% Impervious, Inflow Depth > 3.23" for 25YR event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 1,393 cf
 Outflow = 0.44 cfs @ 12.09 hrs, Volume= 1,393 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.44 cfs @ 12.09 hrs, Volume= 1,393 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.84' @ 12.14 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	215.36'	12.0" Round Culvert L= 17.3' Ke= 0.500 Inlet / Outlet Invert= 215.36' / 214.50' S= 0.0497 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.45 cfs @ 12.09 hrs HW=215.78' TW=215.62' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.45 cfs @ 2.13 fps)**Summary for Pond CB51: CB #51**

Inflow Area = 9,779 sf, 84.41% Impervious, Inflow Depth > 5.35" for 25YR event
 Inflow = 1.29 cfs @ 12.09 hrs, Volume= 4,361 cf
 Outflow = 1.29 cfs @ 12.09 hrs, Volume= 4,361 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.29 cfs @ 12.09 hrs, Volume= 4,361 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.33' @ 12.09 hrs

Flood Elev= 212.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	12.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 209.60' / 209.52' S= 0.0047 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.25 cfs @ 12.09 hrs HW=210.32' TW=208.51' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.25 cfs @ 2.90 fps)**Summary for Pond CB6: CB#6**

Inflow Area = 1,821 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 918 cf
 Outflow = 0.25 cfs @ 12.09 hrs, Volume= 918 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.09 hrs, Volume= 918 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.65' @ 12.11 hrs

Flood Elev= 215.73'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.39'	12.0" Round Culvert L= 38.3' Ke= 0.500 Inlet / Outlet Invert= 212.39' / 211.96' S= 0.0112 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.25 cfs @ 12.09 hrs HW=212.64' TW=212.23' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.25 cfs @ 2.45 fps)**Summary for Pond CB7: CB#7**

Inflow Area = 12,883 sf, 48.58% Impervious, Inflow Depth > 3.94" for 25YR event
 Inflow = 1.33 cfs @ 12.09 hrs, Volume= 4,226 cf
 Outflow = 1.33 cfs @ 12.09 hrs, Volume= 4,226 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.33 cfs @ 12.09 hrs, Volume= 4,226 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.22' @ 12.09 hrs

Flood Elev= 217.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.60'	12.0" Round Culvert L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 214.60' / 213.68' S= 0.0088 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.30 cfs @ 12.09 hrs HW=215.21' TW=213.88' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.30 cfs @ 3.71 fps)

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Summary for Pond CB8: CB#8

Inflow Area = 44,098 sf, 25.01% Impervious, Inflow Depth > 3.03" for 25YR event
 Inflow = 2.50 cfs @ 12.26 hrs, Volume= 11,119 cf
 Outflow = 2.50 cfs @ 12.26 hrs, Volume= 11,119 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.50 cfs @ 12.26 hrs, Volume= 11,119 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.20' @ 12.26 hrs

Flood Elev= 217.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.06'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 214.06' / 214.00' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.49 cfs @ 12.26 hrs HW=215.19' TW=213.86' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.49 cfs @ 3.51 fps)**Summary for Pond CB9: CB #9**

Inflow Area = 14,681 sf, 77.77% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 1.95 cfs @ 12.09 hrs, Volume= 6,686 cf
 Outflow = 1.95 cfs @ 12.09 hrs, Volume= 6,686 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.95 cfs @ 12.09 hrs, Volume= 6,686 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.90' @ 12.09 hrs

Flood Elev= 213.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.10'	12.0" Round Culvert L= 19.9' Ke= 0.500 Inlet / Outlet Invert= 210.10' / 209.71' S= 0.0196 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.90 cfs @ 12.09 hrs HW=210.88' TW=210.37' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.90 cfs @ 4.00 fps)**Summary for Pond D1: DMH#1**

Inflow Area = 241,902 sf, 36.54% Impervious, Inflow Depth > 3.48" for 25YR event
 Inflow = 15.29 cfs @ 12.13 hrs, Volume= 70,099 cf
 Outflow = 15.29 cfs @ 12.13 hrs, Volume= 70,099 cf, Atten= 0%, Lag= 0.0 min
 Primary = 15.29 cfs @ 12.13 hrs, Volume= 70,099 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 204.93' @ 12.13 hrs

Flood Elev= 209.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	202.90'	30.0" Round Culvert L= 24.6' Ke= 0.500 Inlet / Outlet Invert= 202.90' / 202.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=15.19 cfs @ 12.13 hrs HW=204.92' TW=200.07' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 15.19 cfs @ 4.87 fps)**Summary for Pond D10: DMH #10**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 3.94" for 25YR event
 Inflow = 0.83 cfs @ 12.09 hrs, Volume= 2,645 cf
 Outflow = 0.83 cfs @ 12.09 hrs, Volume= 2,645 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.83 cfs @ 12.09 hrs, Volume= 2,645 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.90' @ 12.09 hrs

Flood Elev= 206.49'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.33'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 203.33' / 203.25' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.82 cfs @ 12.09 hrs HW=203.89' TW=197.67' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.82 cfs @ 2.61 fps)**Summary for Pond D11: DMH #11**

Inflow Area = 36,948 sf, 75.62% Impervious, Inflow Depth > 4.83" for 25YR event
 Inflow = 4.39 cfs @ 12.09 hrs, Volume= 14,864 cf
 Outflow = 4.39 cfs @ 12.09 hrs, Volume= 14,864 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.39 cfs @ 12.09 hrs, Volume= 14,864 cf
 Routed to Pond OCS3 : OCS#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.87' @ 12.11 hrs

Flood Elev= 208.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.25'	15.0" Round Culvert L= 44.6' Ke= 0.500 Inlet / Outlet Invert= 204.25' / 204.03' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.43 cfs @ 12.09 hrs HW=205.80' TW=205.23' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 4.43 cfs @ 3.61 fps)

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Summary for Pond D12: DMH #12

Inflow Area = 20,787 sf, 84.76% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 2.77 cfs @ 12.09 hrs, Volume= 9,467 cf
 Outflow = 2.77 cfs @ 12.09 hrs, Volume= 9,467 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.77 cfs @ 12.09 hrs, Volume= 9,467 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.45' @ 12.09 hrs

Flood Elev= 207.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.21'	12.0" Round Culvert L= 41.9' Ke= 0.500 Inlet / Outlet Invert= 203.21' / 203.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.70 cfs @ 12.09 hrs HW=204.42' TW=203.43' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.70 cfs @ 3.60 fps)**Summary for Pond D13: DMH #13**

Inflow Area = 71,080 sf, 70.99% Impervious, Inflow Depth > 5.12" for 25YR event
 Inflow = 8.13 cfs @ 12.10 hrs, Volume= 30,339 cf
 Outflow = 8.13 cfs @ 12.10 hrs, Volume= 30,339 cf, Atten= 0%, Lag= 0.0 min
 Primary = 8.13 cfs @ 12.10 hrs, Volume= 30,339 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.45' @ 12.10 hrs

Flood Elev= 208.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.95'	24.0" Round Culvert L= 60.1' Ke= 0.500 Inlet / Outlet Invert= 201.95' / 201.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=8.05 cfs @ 12.10 hrs HW=203.44' TW=197.68' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 8.05 cfs @ 4.45 fps)**Summary for Pond D14: DMH #14**

Inflow Area = 29,022 sf, 83.28% Impervious, Inflow Depth > 5.61" for 25YR event
 Inflow = 3.88 cfs @ 12.09 hrs, Volume= 13,573 cf
 Outflow = 3.88 cfs @ 12.09 hrs, Volume= 13,573 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.88 cfs @ 12.09 hrs, Volume= 13,573 cf
 Routed to Pond d13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.44' @ 12.09 hrs

Flood Elev= 208.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.28'	15.0" Round Culvert L= 246.6' Ke= 0.500 Inlet / Outlet Invert= 204.28' / 203.05' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.78 cfs @ 12.09 hrs HW=205.42' TW=203.43' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.78 cfs @ 4.23 fps)**Summary for Pond D16: DMH #16**

Inflow Area = 10,744 sf, 96.74% Impervious, Inflow Depth > 5.95" for 25YR event
 Inflow = 1.48 cfs @ 12.09 hrs, Volume= 5,328 cf
 Outflow = 1.48 cfs @ 12.09 hrs, Volume= 5,328 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.48 cfs @ 12.09 hrs, Volume= 5,328 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.75' @ 12.09 hrs

Flood Elev= 208.59'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.90'	15.0" Round Culvert L= 103.5' Ke= 0.500 Inlet / Outlet Invert= 204.90' / 204.38' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.44 cfs @ 12.09 hrs HW=205.73' TW=205.42' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.44 cfs @ 2.36 fps)**Summary for Pond D17: DMH #17**

Inflow Area = 24,340 sf, 78.90% Impervious, Inflow Depth > 5.63" for 25YR event
 Inflow = 3.27 cfs @ 12.09 hrs, Volume= 11,423 cf
 Outflow = 3.27 cfs @ 12.09 hrs, Volume= 11,423 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.27 cfs @ 12.09 hrs, Volume= 11,423 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.79' @ 12.09 hrs

Flood Elev= 204.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.55'	12.0" Round Culvert L= 91.6' Ke= 0.500 Inlet / Outlet Invert= 200.55' / 197.69' S= 0.0312 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.18 cfs @ 12.09 hrs HW=201.76' TW=198.67' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 3.18 cfs @ 4.05 fps)

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Summary for Pond D18: DMH #18

Inflow Area = 34,708 sf, 70.67% Impervious, Inflow Depth > 5.41" for 25YR event
 Inflow = 4.56 cfs @ 12.09 hrs, Volume= 15,659 cf
 Outflow = 4.56 cfs @ 12.09 hrs, Volume= 15,659 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.56 cfs @ 12.09 hrs, Volume= 15,659 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 198.69' @ 12.09 hrs
 Flood Elev= 201.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.44'	15.0" Round Culvert L= 46.3' Ke= 0.500 Inlet / Outlet Invert= 197.44' / 196.98' S= 0.0099 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.44 cfs @ 12.09 hrs HW=198.67' TW=196.66' (Dynamic Tailwater)
 ↑**1=Culvert** (Barrel Controls 4.44 cfs @ 4.59 fps)

Summary for Pond D19: DMH #19

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 5.18" for 25YR event
 Inflow = 2.44 cfs @ 12.09 hrs, Volume= 8,168 cf
 Outflow = 2.44 cfs @ 12.09 hrs, Volume= 8,168 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.44 cfs @ 12.09 hrs, Volume= 8,168 cf
 Routed to Pond d20 : DMH #20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 206.21' @ 12.09 hrs
 Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.19'	12.0" Round Culvert L= 82.5' Ke= 0.500 Inlet / Outlet Invert= 205.19' / 204.43' S= 0.0092 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.38 cfs @ 12.09 hrs HW=206.19' TW=205.40' (Dynamic Tailwater)
 ↑**1=Culvert** (Outlet Controls 2.38 cfs @ 3.78 fps)

Summary for Pond D2: DMH#2

Inflow Area = 222,764 sf, 33.32% Impervious, Inflow Depth > 3.34" for 25YR event
 Inflow = 13.34 cfs @ 12.16 hrs, Volume= 61,925 cf
 Outflow = 13.34 cfs @ 12.16 hrs, Volume= 61,925 cf, Atten= 0%, Lag= 0.0 min
 Primary = 13.34 cfs @ 12.16 hrs, Volume= 61,925 cf
 Routed to Pond D1 : DMH#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.83' @ 12.16 hrs

Flood Elev= 211.04'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.29'	30.0" Round Culvert L= 129.9' Ke= 0.500 Inlet / Outlet Invert= 206.29' / 204.41' S= 0.0145 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=13.26 cfs @ 12.16 hrs HW=207.82' TW=204.91' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 13.26 cfs @ 4.21 fps)**Summary for Pond D20: DMH #20**

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 5.18" for 25YR event
 Inflow = 2.44 cfs @ 12.09 hrs, Volume= 8,168 cf
 Outflow = 2.44 cfs @ 12.09 hrs, Volume= 8,168 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.44 cfs @ 12.09 hrs, Volume= 8,168 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.43' @ 12.09 hrs

Flood Elev= 207.68'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.33'	12.0" Round Culvert L= 63.5' Ke= 0.500 Inlet / Outlet Invert= 204.33' / 204.02' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.38 cfs @ 12.09 hrs HW=205.40' TW=204.51' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.38 cfs @ 3.50 fps)**Summary for Pond D21: DMH #21**

Inflow Area = 63,788 sf, 74.43% Impervious, Inflow Depth > 5.33" for 25YR event
 Inflow = 8.33 cfs @ 12.09 hrs, Volume= 28,342 cf
 Outflow = 8.33 cfs @ 12.09 hrs, Volume= 28,342 cf, Atten= 0%, Lag= 0.0 min
 Primary = 8.33 cfs @ 12.09 hrs, Volume= 28,342 cf
 Routed to Pond p212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.53' @ 12.09 hrs

Flood Elev= 207.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.02'	24.0" Round Culvert L= 72.4' Ke= 0.500 Inlet / Outlet Invert= 203.02' / 202.66' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=8.11 cfs @ 12.09 hrs HW=204.51' TW=201.85' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 8.11 cfs @ 4.50 fps)

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Summary for Pond D22: DMH #22

Inflow Area = 22,312 sf, 86.56% Impervious, Inflow Depth > 5.67" for 25YR event
 Inflow = 3.00 cfs @ 12.09 hrs, Volume= 10,539 cf
 Outflow = 3.00 cfs @ 12.09 hrs, Volume= 10,539 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.00 cfs @ 12.09 hrs, Volume= 10,539 cf
 Routed to Pond d21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.81' @ 12.09 hrs

Flood Elev= 208.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.87'	15.0" Round Culvert L= 134.2' Ke= 0.500 Inlet / Outlet Invert= 204.87' / 203.92' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.92 cfs @ 12.09 hrs HW=205.80' TW=204.51' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.92 cfs @ 4.17 fps)**Summary for Pond D23: DMH #23**

Inflow Area = 10,771 sf, 99.27% Impervious, Inflow Depth > 6.03" for 25YR event
 Inflow = 1.49 cfs @ 12.09 hrs, Volume= 5,416 cf
 Outflow = 1.49 cfs @ 12.09 hrs, Volume= 5,416 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.49 cfs @ 12.09 hrs, Volume= 5,416 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.30' @ 12.09 hrs

Flood Elev= 210.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.70'	15.0" Round Culvert L= 173.3' Ke= 0.500 Inlet / Outlet Invert= 206.70' / 204.97' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.45 cfs @ 12.09 hrs HW=207.29' TW=205.80' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.45 cfs @ 3.69 fps)**Summary for Pond D24: DMH #24**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 5.93" for 25YR event
 Inflow = 0.17 cfs @ 12.09 hrs, Volume= 622 cf
 Outflow = 0.17 cfs @ 12.09 hrs, Volume= 622 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.17 cfs @ 12.09 hrs, Volume= 622 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.43' @ 12.09 hrs

Flood Elev= 211.62'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.21'	12.0" Round Culvert L= 140.9' Ke= 0.500 Inlet / Outlet Invert= 208.21' / 207.13' S= 0.0077 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=208.42' TW=207.29' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.17 cfs @ 2.08 fps)**Summary for Pond D25: DMH #25**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 5.04" for 25YR event
 Inflow = 8.11 cfs @ 12.09 hrs, Volume= 27,515 cf
 Outflow = 8.11 cfs @ 12.09 hrs, Volume= 27,515 cf, Atten= 0%, Lag= 0.0 min
 Primary = 8.11 cfs @ 12.09 hrs, Volume= 27,515 cf
 Routed to Pond D26 : DMH #26

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.36' @ 12.09 hrs

Flood Elev= 213.11'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	18.0" Round Culvert L= 78.6' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.10' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.93 cfs @ 12.09 hrs HW=210.31' TW=209.21' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 7.93 cfs @ 4.71 fps)**Summary for Pond D26: DMH #26**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 5.04" for 25YR event
 Inflow = 8.11 cfs @ 12.09 hrs, Volume= 27,515 cf
 Outflow = 8.11 cfs @ 12.09 hrs, Volume= 27,515 cf, Atten= 0%, Lag= 0.0 min
 Primary = 8.11 cfs @ 12.09 hrs, Volume= 27,515 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.24' @ 12.09 hrs

Flood Elev= 213.71'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.60'	24.0" Round Culvert L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 207.60' / 206.97' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=7.91 cfs @ 12.09 hrs HW=209.21' TW=208.51' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 7.91 cfs @ 3.98 fps)

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Summary for Pond D27: DMH #27

Inflow Area = 37,809 sf, 68.72% Impervious, Inflow Depth > 4.78" for 25YR event
 Inflow = 4.48 cfs @ 12.09 hrs, Volume= 15,076 cf
 Outflow = 4.48 cfs @ 12.09 hrs, Volume= 15,076 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.48 cfs @ 12.09 hrs, Volume= 15,076 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.49' @ 12.09 hrs

Flood Elev= 217.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.30'	15.0" Round Culvert L= 247.1' Ke= 0.500 Inlet / Outlet Invert= 213.30' / 208.48' S= 0.0195 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.38 cfs @ 12.09 hrs HW=214.46' TW=210.31' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 4.38 cfs @ 3.67 fps)**Summary for Pond D28: DMH #28**

Inflow Area = 20,503 sf, 61.42% Impervious, Inflow Depth > 4.50" for 25YR event
 Inflow = 2.29 cfs @ 12.09 hrs, Volume= 7,689 cf
 Outflow = 2.29 cfs @ 12.09 hrs, Volume= 7,689 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.29 cfs @ 12.09 hrs, Volume= 7,689 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 217.87' @ 12.09 hrs

Flood Elev= 220.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.12'	15.0" Round Culvert L= 189.5' Ke= 0.500 Inlet / Outlet Invert= 217.12' / 213.40' S= 0.0196 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.24 cfs @ 12.09 hrs HW=217.86' TW=214.47' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.24 cfs @ 2.94 fps)**Summary for Pond D29: DMH #29**

Inflow Area = 9,226 sf, 91.86% Impervious, Inflow Depth > 5.69" for 25YR event
 Inflow = 1.24 cfs @ 12.09 hrs, Volume= 4,374 cf
 Outflow = 1.24 cfs @ 12.09 hrs, Volume= 4,374 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.24 cfs @ 12.09 hrs, Volume= 4,374 cf
 Routed to Pond D28 : DMH #28

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 220.41' @ 12.09 hrs

Flood Elev= 223.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	219.83'	12.0" Round Culvert L= 118.4' Ke= 0.500 Inlet / Outlet Invert= 219.83' / 217.54' S= 0.0193 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 12.09 hrs HW=220.41' TW=217.86' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.21 cfs @ 2.58 fps)**Summary for Pond D3: DMH#3**

Inflow Area = 178,722 sf, 29.60% Impervious, Inflow Depth > 3.19" for 25YR event
 Inflow = 10.17 cfs @ 12.17 hrs, Volume= 47,438 cf
 Outflow = 10.17 cfs @ 12.17 hrs, Volume= 47,438 cf, Atten= 0%, Lag= 0.0 min
 Primary = 10.17 cfs @ 12.17 hrs, Volume= 47,438 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.37' @ 12.17 hrs

Flood Elev= 215.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	24.0" Round Culvert L= 282.0' Ke= 0.500 Inlet / Outlet Invert= 210.90' / 206.79' S= 0.0146 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=10.07 cfs @ 12.17 hrs HW=212.36' TW=207.82' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 10.07 cfs @ 4.11 fps)**Summary for Pond D30: DMH #30**

Inflow Area = 3,480 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.48 cfs @ 12.09 hrs, Volume= 1,754 cf
 Outflow = 0.48 cfs @ 12.09 hrs, Volume= 1,754 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.48 cfs @ 12.09 hrs, Volume= 1,754 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.33' @ 12.09 hrs

Flood Elev= 224.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.92'	12.0" Round Culvert L= 184.2' Ke= 0.500 Inlet / Outlet Invert= 220.92' / 220.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.47 cfs @ 12.09 hrs HW=221.32' TW=220.41' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.47 cfs @ 2.32 fps)

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Summary for Pond D31: DMH#31

Inflow Area = 63,226 sf, 29.53% Impervious, Inflow Depth > 3.18" for 25YR event
 Inflow = 4.32 cfs @ 12.16 hrs, Volume= 16,735 cf
 Outflow = 4.32 cfs @ 12.16 hrs, Volume= 16,735 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.32 cfs @ 12.16 hrs, Volume= 16,735 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 225.09' @ 12.16 hrs

Flood Elev= 227.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	223.94'	15.0" Round Culvert L= 158.7' Ke= 0.500 Inlet / Outlet Invert= 223.94' / 214.45' S= 0.0598 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.26 cfs @ 12.16 hrs HW=225.08' TW=215.74' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 4.26 cfs @ 3.63 fps)**Summary for Pond D32: DMH#32**

Inflow Area = 74,296 sf, 29.68% Impervious, Inflow Depth > 3.18" for 25YR event
 Inflow = 5.06 cfs @ 12.15 hrs, Volume= 19,666 cf
 Outflow = 5.06 cfs @ 12.15 hrs, Volume= 19,666 cf, Atten= 0%, Lag= 0.0 min
 Primary = 5.06 cfs @ 12.15 hrs, Volume= 19,666 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.77' @ 12.15 hrs

Flood Elev= 219.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.25'	15.0" Round Culvert L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 214.25' / 213.64' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.06 cfs @ 12.15 hrs HW=215.77' TW=213.96' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 5.06 cfs @ 4.31 fps)**Summary for Pond D33: DMH #33**

Inflow Area = 75,312 sf, 76.03% Impervious, Inflow Depth > 5.08" for 25YR event
 Inflow = 9.40 cfs @ 12.09 hrs, Volume= 31,875 cf
 Outflow = 9.40 cfs @ 12.09 hrs, Volume= 31,875 cf, Atten= 0%, Lag= 0.0 min
 Primary = 9.40 cfs @ 12.09 hrs, Volume= 31,875 cf
 Routed to Pond P210 : POCKET WETLAND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.53' @ 12.09 hrs

Flood Elev= 212.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.87'	24.0" Round Culvert L= 39.0' Ke= 0.500 Inlet / Outlet Invert= 206.87' / 206.67' S= 0.0051 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf

Primary OutFlow Max=9.16 cfs @ 12.09 hrs HW=208.51' TW=204.16' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 9.16 cfs @ 4.53 fps)**Summary for Pond D34: DMH #34**

Inflow Area = 34,553 sf, 94.38% Impervious, Inflow Depth > 5.89" for 25YR event
 Inflow = 4.73 cfs @ 12.09 hrs, Volume= 16,956 cf
 Outflow = 4.73 cfs @ 12.09 hrs, Volume= 16,956 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.73 cfs @ 12.09 hrs, Volume= 16,956 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 198.23' @ 12.09 hrs

Flood Elev= 202.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	196.78'	15.0" Round Culvert L= 51.0' Ke= 0.500 Inlet / Outlet Invert= 196.78' / 196.53' S= 0.0049 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.60 cfs @ 12.09 hrs HW=198.20' TW=196.66' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 4.60 cfs @ 4.13 fps)**Summary for Pond D4: DMH#4**

Inflow Area = 131,277 sf, 29.96% Impervious, Inflow Depth > 3.20" for 25YR event
 Inflow = 8.15 cfs @ 12.16 hrs, Volume= 35,011 cf
 Outflow = 8.15 cfs @ 12.16 hrs, Volume= 35,011 cf, Atten= 0%, Lag= 0.0 min
 Primary = 8.15 cfs @ 12.16 hrs, Volume= 35,011 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.96' @ 12.16 hrs

Flood Elev= 217.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.68'	24.0" Round Culvert L= 131.1' Ke= 0.500 Inlet / Outlet Invert= 212.68' / 211.04' S= 0.0125 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=8.09 cfs @ 12.16 hrs HW=213.95' TW=212.36' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 8.09 cfs @ 3.84 fps)

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Summary for Pond D5: DMH #5

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 5.30" for 25YR event
 Inflow = 4.94 cfs @ 12.09 hrs, Volume= 16,858 cf
 Outflow = 4.94 cfs @ 12.09 hrs, Volume= 16,858 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.94 cfs @ 12.09 hrs, Volume= 16,858 cf
 Routed to Pond D6 : DMH #6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.39' @ 12.09 hrs

Flood Elev= 212.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.09'	18.0" Round Culvert L= 183.0' Ke= 0.500 Inlet / Outlet Invert= 209.09' / 208.17' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.82 cfs @ 12.09 hrs HW=210.37' TW=209.28' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 4.82 cfs @ 4.04 fps)**Summary for Pond D6: DMH #6**

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 5.30" for 25YR event
 Inflow = 4.94 cfs @ 12.09 hrs, Volume= 16,858 cf
 Outflow = 4.94 cfs @ 12.09 hrs, Volume= 16,858 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.94 cfs @ 12.09 hrs, Volume= 16,858 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.30' @ 12.09 hrs

Flood Elev= 214.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.07'	18.0" Round Culvert L= 299.7' Ke= 0.500 Inlet / Outlet Invert= 208.07' / 206.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.82 cfs @ 12.09 hrs HW=209.28' TW=207.31' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 4.82 cfs @ 4.31 fps)**Summary for Pond D7: DMH #7**

Inflow Area = 56,343 sf, 67.42% Impervious, Inflow Depth > 5.15" for 25YR event
 Inflow = 7.17 cfs @ 12.09 hrs, Volume= 24,176 cf
 Outflow = 7.17 cfs @ 12.09 hrs, Volume= 24,176 cf, Atten= 0%, Lag= 0.0 min
 Primary = 7.17 cfs @ 12.09 hrs, Volume= 24,176 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.33' @ 12.09 hrs

Flood Elev= 213.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.97'	24.0" Round Culvert L= 101.8' Ke= 0.500 Inlet / Outlet Invert= 205.97' / 205.46' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.99 cfs @ 12.09 hrs HW=207.31' TW=201.86' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 6.99 cfs @ 4.43 fps)**Summary for Pond D8: DMH #8**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 4.98" for 25YR event
 Inflow = 2.21 cfs @ 12.09 hrs, Volume= 7,416 cf
 Outflow = 2.21 cfs @ 12.09 hrs, Volume= 7,416 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.21 cfs @ 12.09 hrs, Volume= 7,416 cf
 Routed to Pond D9 : DMH #9

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.65' @ 12.09 hrs

Flood Elev= 204.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.57'	12.0" Round Culvert L= 87.7' Ke= 0.500 Inlet / Outlet Invert= 200.57' / 200.13' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.15 cfs @ 12.09 hrs HW=201.63' TW=201.04' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.15 cfs @ 3.22 fps)**Summary for Pond D9: DMH #9**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 4.98" for 25YR event
 Inflow = 2.21 cfs @ 12.09 hrs, Volume= 7,416 cf
 Outflow = 2.21 cfs @ 12.09 hrs, Volume= 7,416 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.21 cfs @ 12.09 hrs, Volume= 7,416 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.06' @ 12.09 hrs

Flood Elev= 204.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.03'	12.0" Round Culvert L= 11.9' Ke= 0.500 Inlet / Outlet Invert= 200.03' / 199.97' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.15 cfs @ 12.09 hrs HW=201.04' TW=197.66' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.15 cfs @ 3.36 fps)

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Summary for Pond DE1: DRIP #1

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,075 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 96 cf
 Primary = 0.34 cfs @ 12.12 hrs, Volume= 979 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 223.98' @ 12.12 hrs Surf.Area= 323 sf Storage= 257 cf

Plug-Flow detention time= 109.1 min calculated for 1,075 cf (84% of inflow)
 Center-of-Mass det. time= 43.6 min (810.4 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	221.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.99	323	0.0	0	0
222.00	323	40.0	1	1
224.99	323	40.0	386	388
225.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	224.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.50' / 223.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=222.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.34 cfs @ 12.12 hrs HW=223.97' TW=218.02' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)

Summary for Pond DE10: DRIP #10

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf
 Outflow = 0.31 cfs @ 12.11 hrs, Volume= 976 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 88 cf
 Primary = 0.31 cfs @ 12.11 hrs, Volume= 889 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.95' @ 12.11 hrs Surf.Area= 290 sf Storage= 227 cf

Plug-Flow detention time= 110.0 min calculated for 976 cf (85% of inflow)

Center-of-Mass det. time= 44.8 min (806.8 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	290	0.0	0	0
212.00	290	40.0	1	1
214.99	290	40.0	347	348
215.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=212.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.30 cfs @ 12.11 hrs HW=213.94' TW=202.00' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.30 cfs @ 2.20 fps)**Summary for Pond DE11: DRIP #11**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,101 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 98 cf
 Primary = 0.35 cfs @ 12.12 hrs, Volume= 1,004 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.98' @ 12.12 hrs Surf.Area= 323 sf Storage= 258 cf

Plug-Flow detention time= 108.9 min calculated for 1,099 cf (84% of inflow)

Center-of-Mass det. time= 44.8 min (806.9 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=211.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=212.98' TW=202.01' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DE12: DRIP #12**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,520 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,363 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 113 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,251 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.23' @ 12.12 hrs Surf.Area= 373 sf Storage= 230 cf

Plug-Flow detention time= 85.3 min calculated for 1,361 cf (90% of inflow)

Center-of-Mass det. time= 36.0 min (798.0 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	210.69'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.69	373	0.0	0	0
210.70	373	40.0	1	1
213.69	373	40.0	446	448
213.70	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	213.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 211.70' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 211.70' / 211.65' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 210.69' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=210.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.12 hrs HW=212.22' TW=202.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.35 fps)**Summary for Pond DE13: DRIP #13**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 5.81" for 25YR event
 Inflow = 0.56 cfs @ 12.09 hrs, Volume= 1,985 cf
 Outflow = 0.50 cfs @ 12.13 hrs, Volume= 1,747 cf, Atten= 11%, Lag= 2.4 min
 Discarded = 0.00 cfs @ 3.50 hrs, Volume= 119 cf
 Primary = 0.50 cfs @ 12.13 hrs, Volume= 1,628 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.16' @ 12.13 hrs Surf.Area= 383 sf Storage= 333 cf

Plug-Flow detention time= 97.1 min calculated for 1,743 cf (88% of inflow)

Center-of-Mass det. time= 42.0 min (798.8 - 756.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	383	0.0	0	0
210.00	383	40.0	2	2
212.99	383	40.0	458	460
213.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.50 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.13 hrs HW=212.15' TW=202.06' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)

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Summary for Pond DE14: DRIP #14

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf
 Outflow = 0.31 cfs @ 12.11 hrs, Volume= 976 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 88 cf
 Primary = 0.31 cfs @ 12.11 hrs, Volume= 889 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 210.35' @ 12.11 hrs Surf.Area= 290 sf Storage= 227 cf

Plug-Flow detention time= 110.0 min calculated for 976 cf (85% of inflow)
 Center-of-Mass det. time= 44.8 min (806.8 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.39'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.39	290	0.0	0	0
208.40	290	40.0	1	1
211.39	290	40.0	347	348
211.40	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	211.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.90' / 209.85' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=208.40' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.30 cfs @ 12.11 hrs HW=210.34' TW=202.00' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.20 fps)

Summary for Pond DE15: DRIP #15

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 893 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 715 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.30 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 630 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 209.69' @ 12.12 hrs Surf.Area= 290 sf Storage= 220 cf

Plug-Flow detention time= 122.6 min calculated for 713 cf (80% of inflow)

Center-of-Mass det. time= 48.3 min (815.1 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	290	0.0	0	0
207.80	290	40.0	1	1
210.79	290	40.0	347	348
210.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.30' / 209.25' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.30 hrs HW=207.80' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.12 hrs HW=209.68' TW=202.01' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)**Summary for Pond DE16: DRIP #16**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf
 Outflow = 0.31 cfs @ 12.11 hrs, Volume= 976 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 88 cf
 Primary = 0.31 cfs @ 12.11 hrs, Volume= 889 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.25' @ 12.11 hrs Surf.Area= 290 sf Storage= 227 cf

Plug-Flow detention time= 110.0 min calculated for 976 cf (85% of inflow)

Center-of-Mass det. time= 44.8 min (806.8 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.29	290	0.0	0	0
207.30	290	40.0	1	1
210.29	290	40.0	347	348
210.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.80' / 208.75' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=207.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.30 cfs @ 12.11 hrs HW=209.24' TW=202.00' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.20 fps)**Summary for Pond DE17: DRIP #17**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 5.13" for 25YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 838 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 673 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 6.80 hrs, Volume= 73 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 600 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.98' @ 12.12 hrs Surf.Area= 267 sf Storage= 202 cf

Plug-Flow detention time= 116.6 min calculated for 672 cf (80% of inflow)

Center-of-Mass det. time= 43.3 min (826.1 - 782.7)

Volume	Invert	Avail.Storage	Storage Description	
#1	203.09'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
203.09	267	0.0	0	0
203.10	267	40.0	1	1
206.09	267	40.0	319	320
206.10	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	206.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 204.60' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 204.60' / 204.55' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 203.09' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.80 hrs HW=203.12' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.23 cfs @ 12.12 hrs HW=204.97' TW=200.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.23 cfs @ 2.04 fps)**Summary for Pond DE18: DRIP #18**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.24" for 25YR event
 Inflow = 0.36 cfs @ 12.09 hrs, Volume= 1,196 cf
 Outflow = 0.33 cfs @ 12.12 hrs, Volume= 997 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 5.15 hrs, Volume= 90 cf
 Primary = 0.33 cfs @ 12.12 hrs, Volume= 906 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.77' @ 12.12 hrs Surf.Area= 323 sf Storage= 256 cf

Plug-Flow detention time= 108.7 min calculated for 997 cf (83% of inflow)

Center-of-Mass det. time= 41.1 min (820.2 - 779.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	204.79'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.79	323	0.0	0	0
204.80	323	40.0	1	1
207.79	323	40.0	386	388
207.80	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	207.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.30' / 206.25' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	204.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.15 hrs HW=204.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.32 cfs @ 12.12 hrs HW=206.76' TW=200.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.32 cfs @ 2.23 fps)

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Summary for Pond DE19: DRIP #19

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 5.24" for 25YR event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,062 cf
 Outflow = 0.30 cfs @ 12.12 hrs, Volume= 883 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 6.20 hrs, Volume= 81 cf
 Primary = 0.30 cfs @ 12.12 hrs, Volume= 802 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 207.54' @ 12.12 hrs Surf.Area= 290 sf Storage= 226 cf

Plug-Flow detention time= 108.2 min calculated for 882 cf (83% of inflow)
 Center-of-Mass det. time= 41.0 min (820.2 - 779.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.59	290	0.0	0	0
205.60	290	40.0	1	1
208.59	290	40.0	347	348
208.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.10' / 207.05' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.20 hrs HW=205.62' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.29 cfs @ 12.12 hrs HW=207.53' TW=200.13' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)

Summary for Pond DE2: DRIP #2

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 5.35" for 25YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 857 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 713 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.15 hrs, Volume= 82 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 631 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 223.38' @ 12.12 hrs Surf.Area= 290 sf Storage= 184 cf

Plug-Flow detention time= 109.0 min calculated for 713 cf (83% of inflow)

Center-of-Mass det. time= 41.1 min (816.4 - 775.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	221.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.79	290	0.0	0	0
221.80	290	40.0	1	1
224.79	290	40.0	347	348
224.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	224.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.00' / 222.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.15 hrs HW=221.80' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.23 cfs @ 12.12 hrs HW=223.37' TW=218.02' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.23 cfs @ 2.04 fps)**Summary for Pond DE20: DRIP #20**

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 5.13" for 25YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 820 cf
 Outflow = 0.23 cfs @ 12.12 hrs, Volume= 642 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 5.95 hrs, Volume= 79 cf
 Primary = 0.23 cfs @ 12.12 hrs, Volume= 563 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.17' @ 12.12 hrs Surf.Area= 290 sf Storage= 219 cf

Plug-Flow detention time= 123.7 min calculated for 641 cf (78% of inflow)

Center-of-Mass det. time= 46.2 min (829.0 - 782.7)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.29	290	0.0	0	0
206.30	290	40.0	1	1
209.29	290	40.0	347	348
209.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	209.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.75' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.95 hrs HW=206.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.22 cfs @ 12.12 hrs HW=208.17' TW=200.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.22 cfs @ 2.02 fps)**Summary for Pond DE21: DRIP #21**

Inflow Area = 1,961 sf, 86.33% Impervious, Inflow Depth > 5.24" for 25YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 856 cf
 Outflow = 0.24 cfs @ 12.11 hrs, Volume= 691 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 6.50 hrs, Volume= 74 cf
 Primary = 0.24 cfs @ 12.11 hrs, Volume= 616 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.58' @ 12.11 hrs Surf.Area= 268 sf Storage= 203 cf

Plug-Flow detention time= 117.3 min calculated for 691 cf (81% of inflow)

Center-of-Mass det. time= 43.8 min (822.9 - 779.1)

Volume	Invert	Avail.Storage	Storage Description
#1	206.69'	324 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.69	268	0.0	0	0
206.70	268	40.0	1	1
209.69	268	40.0	321	322
209.70	268	100.0	3	324

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.20' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 208.20' / 208.15' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 206.69' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.50 hrs HW=206.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.23 cfs @ 12.11 hrs HW=208.58' TW=200.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.23 cfs @ 2.05 fps)**Summary for Pond DE22: DRIP #22**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,520 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,289 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 113 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,176 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.53' @ 12.12 hrs Surf.Area= 373 sf Storage= 305 cf

Plug-Flow detention time= 109.5 min calculated for 1,289 cf (85% of inflow)

Center-of-Mass det. time= 45.0 min (807.1 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.49'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.49	373	0.0	0	0
207.50	373	40.0	1	1
210.49	373	40.0	446	448
210.50	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=207.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.12 hrs HW=209.52' TW=200.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.35 fps)

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Summary for Pond DE23: DRIP #23

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 940 cf, Atten= 4%, Lag= 1.5 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 82 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 858 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.92' @ 12.11 hrs Surf.Area= 271 sf Storage= 209 cf

Plug-Flow detention time= 107.4 min calculated for 938 cf (85% of inflow)
 Center-of-Mass det. time= 44.0 min (806.0 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	271	0.0	0	0
208.00	271	40.0	1	1
210.99	271	40.0	324	325
211.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.50'	6.0" Round Culvert L= 10.0' Ke= 0.200 Inlet / Outlet Invert= 209.50' / 209.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=208.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.30 cfs @ 12.11 hrs HW=209.92' TW=200.12' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.30 fps)

Summary for Pond DE24: DRIP #24

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,037 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 98 cf
 Primary = 0.35 cfs @ 12.12 hrs, Volume= 939 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 211.08' @ 12.12 hrs Surf.Area= 323 sf Storage= 322 cf

Plug-Flow detention time= 128.8 min calculated for 1,037 cf (80% of inflow)

Center-of-Mass det. time= 52.5 min (814.6 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.59'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.59	323	0.0	0	0
208.60	323	40.0	1	1
211.59	323	40.0	386	388
211.60	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.60'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.60' / 210.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=208.62' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=211.08' TW=202.05' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DE25: DRIP #25**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,101 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 98 cf
 Primary = 0.35 cfs @ 12.12 hrs, Volume= 1,004 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.28' @ 12.12 hrs Surf.Area= 323 sf Storage= 258 cf

Plug-Flow detention time= 109.7 min calculated for 1,101 cf (85% of inflow)

Center-of-Mass det. time= 44.8 min (806.9 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.29'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.29	323	0.0	0	0
209.30	323	40.0	1	1
212.29	323	40.0	386	388
212.30	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	212.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.80' / 210.75' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=209.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=211.28' TW=202.05' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DE26: DRIP #26**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 940 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 82 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 858 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.94' @ 12.11 hrs Surf.Area= 271 sf Storage= 211 cf

Plug-Flow detention time= 107.5 min calculated for 938 cf (85% of inflow)

Center-of-Mass det. time= 44.1 min (806.2 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 211.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 209.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.29 cfs @ 12.11 hrs HW=211.93' TW=202.05' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)**Summary for Pond DE27: DRIP #27**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf
 Outflow = 0.31 cfs @ 12.11 hrs, Volume= 1,092 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.10 hrs, Volume= 88 cf
 Primary = 0.31 cfs @ 12.11 hrs, Volume= 1,005 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.55' @ 12.11 hrs Surf.Area= 290 sf Storage= 111 cf

Plug-Flow detention time= 54.9 min calculated for 1,092 cf (95% of inflow)

Center-of-Mass det. time= 24.0 min (786.1 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.59'	235 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	290	0.0	0	0
211.60	290	40.0	1	1
213.59	290	40.0	231	232
213.60	290	100.0	3	235

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.10 hrs HW=211.61' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.30 cfs @ 12.11 hrs HW=212.54' TW=202.05' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.20 fps)

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Summary for Pond DE28: DRIP #28

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf
 Outflow = 0.31 cfs @ 12.11 hrs, Volume= 976 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 88 cf
 Primary = 0.31 cfs @ 12.11 hrs, Volume= 889 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.45' @ 12.11 hrs Surf.Area= 290 sf Storage= 227 cf

Plug-Flow detention time= 110.0 min calculated for 976 cf (85% of inflow)
 Center-of-Mass det. time= 44.8 min (806.8 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.49	290	0.0	0	0
211.50	290	40.0	1	1
214.49	290	40.0	347	348
214.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=211.52' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.30 cfs @ 12.11 hrs HW=213.44' TW=202.05' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.20 fps)

Summary for Pond DE29: DRIP #29

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 1,005 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 82 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 923 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.44' @ 12.11 hrs Surf.Area= 271 sf Storage= 146 cf

Plug-Flow detention time= 78.7 min calculated for 1,003 cf (91% of inflow)

Center-of-Mass det. time= 32.9 min (795.0 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.09'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.09	271	0.0	0	0
212.10	271	40.0	1	1
215.09	271	40.0	324	325
215.10	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	215.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.09'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=212.12' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.29 cfs @ 12.11 hrs HW=213.43' TW=204.03' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)**Summary for Pond DE3: DRIP #3**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 918 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.90 hrs, Volume= 80 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 837 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 222.74' @ 12.11 hrs Surf.Area= 271 sf Storage= 211 cf

Plug-Flow detention time= 107.7 min calculated for 918 cf (85% of inflow)

Center-of-Mass det. time= 42.9 min (809.7 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	220.79'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
220.79	271	0.0	0	0
220.80	271	40.0	1	1
223.79	271	40.0	324	325
223.80	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	223.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	222.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 222.30' / 222.25' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	220.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.90 hrs HW=220.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.29 cfs @ 12.11 hrs HW=222.73' TW=218.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)**Summary for Pond DE30: DRIP #30**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,160 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 98 cf
 Primary = 0.35 cfs @ 12.12 hrs, Volume= 1,062 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.73' @ 12.12 hrs Surf.Area= 323 sf Storage= 200 cf

Plug-Flow detention time= 88.0 min calculated for 1,157 cf (89% of inflow)

Center-of-Mass det. time= 36.7 min (798.8 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	212.19'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	323	0.0	0	0
212.20	323	40.0	1	1
215.19	323	40.0	386	388
215.20	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	215.10'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 213.25' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 213.25' / 213.20' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 212.19' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=212.22' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=213.73' TW=204.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DE31: DRIP #31**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,101 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 98 cf
 Primary = 0.35 cfs @ 12.12 hrs, Volume= 1,004 cf
 Routed to Reach 8R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.98' @ 12.12 hrs Surf.Area= 323 sf Storage= 258 cf

Plug-Flow detention time= 108.9 min calculated for 1,099 cf (84% of inflow)

Center-of-Mass det. time= 44.8 min (806.9 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=212.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=213.98' TW=204.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)

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Summary for Pond DE32: DRIP #32

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 940 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 82 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 858 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.34' @ 12.11 hrs Surf.Area= 271 sf Storage= 211 cf

Plug-Flow detention time= 108.4 min calculated for 940 cf (85% of inflow)
 Center-of-Mass det. time= 44.1 min (806.2 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.39'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.39	271	0.0	0	0
211.40	271	40.0	1	1
214.39	271	40.0	324	325
214.40	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.90' / 212.85' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=211.40' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.29 cfs @ 12.11 hrs HW=213.33' TW=207.06' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)

Summary for Pond DE33: DRIP #33

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 893 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 715 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 5.45 hrs, Volume= 85 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 630 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 212.49' @ 12.12 hrs Surf.Area= 290 sf Storage= 220 cf

Plug-Flow detention time= 122.6 min calculated for 713 cf (80% of inflow)

Center-of-Mass det. time= 48.3 min (815.1 - 766.8)

Volume	Invert	Avail.Storage	Storage Description
#1	210.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.59	290	0.0	0	0
210.60	290	40.0	1	1
213.59	290	40.0	347	348
213.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.45 hrs HW=210.62' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.12 hrs HW=212.48' TW=207.06' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.24 cfs @ 2.05 fps)**Summary for Pond DE34: DRIP #34**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.56 cfs @ 12.09 hrs, Volume= 1,945 cf
 Outflow = 0.50 cfs @ 12.13 hrs, Volume= 1,707 cf, Atten= 11%, Lag= 2.4 min
 Discarded = 0.00 cfs @ 3.15 hrs, Volume= 116 cf
 Primary = 0.49 cfs @ 12.13 hrs, Volume= 1,590 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.46' @ 12.13 hrs Surf.Area= 383 sf Storage= 332 cf

Plug-Flow detention time= 96.9 min calculated for 1,707 cf (88% of inflow)

Center-of-Mass det. time= 40.6 min (802.7 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	210.29'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.29	383	0.0	0	0
210.30	383	40.0	2	2
213.29	383	40.0	458	460
213.30	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	213.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.80' / 211.75' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.15 hrs HW=210.30' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.13 hrs HW=212.44' TW=204.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)**Summary for Pond DE35: DRIP #35**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.56 cfs @ 12.09 hrs, Volume= 1,945 cf
 Outflow = 0.50 cfs @ 12.13 hrs, Volume= 1,707 cf, Atten= 11%, Lag= 2.4 min
 Discarded = 0.00 cfs @ 4.00 hrs, Volume= 116 cf
 Primary = 0.49 cfs @ 12.13 hrs, Volume= 1,590 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.16' @ 12.13 hrs Surf.Area= 383 sf Storage= 332 cf

Plug-Flow detention time= 96.9 min calculated for 1,707 cf (88% of inflow)

Center-of-Mass det. time= 40.6 min (802.7 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	383	0.0	0	0
209.00	383	40.0	2	2
211.99	383	40.0	458	460
212.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 210.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 208.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.00 hrs HW=209.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.13 hrs HW=211.14' TW=204.03' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)**Summary for Pond DE36: DRIP #36**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,520 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,363 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 113 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,251 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.53' @ 12.12 hrs Surf.Area= 373 sf Storage= 230 cf

Plug-Flow detention time= 85.3 min calculated for 1,361 cf (90% of inflow)

Center-of-Mass det. time= 36.0 min (798.0 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	373	0.0	0	0
207.00	373	40.0	1	1
209.99	373	40.0	446	448
210.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.00' / 207.95' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=207.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.39 cfs @ 12.12 hrs HW=208.52' TW=199.97' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.35 fps)

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Summary for Pond DE37: DRIP #37

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,489 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,333 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 110 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,222 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.53' @ 12.12 hrs Surf.Area= 373 sf Storage= 230 cf

Plug-Flow detention time= 84.8 min calculated for 1,330 cf (89% of inflow)
 Center-of-Mass det. time= 34.9 min (801.8 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	373	0.0	0	0
208.00	373	40.0	1	1
210.99	373	40.0	446	448
211.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=208.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.39 cfs @ 12.12 hrs HW=209.52' TW=199.98' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.34 fps)

Summary for Pond DE38: DRIP #39

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,075 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 96 cf
 Primary = 0.34 cfs @ 12.12 hrs, Volume= 979 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.98' @ 12.12 hrs Surf.Area= 323 sf Storage= 257 cf

Plug-Flow detention time= 109.1 min calculated for 1,075 cf (84% of inflow)

Center-of-Mass det. time= 43.6 min (810.4 - 766.8)

Volume	Invert	Avail.Storage	Storage Description
#1	208.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	323	0.0	0	0
209.00	323	40.0	1	1
211.99	323	40.0	386	388
212.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=209.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=210.97' TW=199.95' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DE39: DRIP #39**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 918 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 80 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 837 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.94' @ 12.11 hrs Surf.Area= 271 sf Storage= 211 cf

Plug-Flow detention time= 107.7 min calculated for 918 cf (85% of inflow)

Center-of-Mass det. time= 42.9 min (809.7 - 766.8)

Volume	Invert	Avail.Storage	Storage Description
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.29 cfs @ 12.11 hrs HW=211.93' TW=199.92' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)**Summary for Pond DE4: DRIP #4**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,075 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 96 cf
 Primary = 0.34 cfs @ 12.12 hrs, Volume= 979 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.98' @ 12.12 hrs Surf.Area= 323 sf Storage= 257 cf

Plug-Flow detention time= 109.1 min calculated for 1,075 cf (84% of inflow)

Center-of-Mass det. time= 43.6 min (810.4 - 766.8)

Volume	Invert	Avail.Storage	Storage Description
#1	218.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.99	323	0.0	0	0
219.00	323	40.0	1	1
221.99	323	40.0	386	388
222.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	221.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 220.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 220.50' / 220.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 218.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=219.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=220.97' TW=218.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DE40: DRIP #40**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,075 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 96 cf
 Primary = 0.34 cfs @ 12.12 hrs, Volume= 979 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.98' @ 12.12 hrs Surf.Area= 323 sf Storage= 257 cf

Plug-Flow detention time= 109.1 min calculated for 1,075 cf (84% of inflow)

Center-of-Mass det. time= 43.6 min (810.4 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=211.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=212.97' TW=199.95' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)

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Summary for Pond DE41: DRIP #41

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,275 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,075 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 96 cf
 Primary = 0.34 cfs @ 12.12 hrs, Volume= 979 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.98' @ 12.12 hrs Surf.Area= 323 sf Storage= 257 cf

Plug-Flow detention time= 109.1 min calculated for 1,075 cf (84% of inflow)
 Center-of-Mass det. time= 43.6 min (810.4 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=212.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.34 cfs @ 12.12 hrs HW=213.97' TW=199.95' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)

Summary for Pond DE42: DRIP #42

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 893 cf
 Outflow = 0.25 cfs @ 12.11 hrs, Volume= 729 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 5.65 hrs, Volume= 77 cf
 Primary = 0.25 cfs @ 12.11 hrs, Volume= 652 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 214.89' @ 12.11 hrs Surf.Area= 267 sf Storage= 203 cf

Plug-Flow detention time= 115.9 min calculated for 727 cf (81% of inflow)

Center-of-Mass det. time= 45.0 min (816.2 - 771.2)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.65 hrs HW=213.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.11 hrs HW=214.88' TW=199.93' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.24 cfs @ 2.06 fps)**Summary for Pond DE43: DRIP #43**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 893 cf
 Outflow = 0.25 cfs @ 12.11 hrs, Volume= 729 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 5.65 hrs, Volume= 77 cf
 Primary = 0.25 cfs @ 12.11 hrs, Volume= 652 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.89' @ 12.11 hrs Surf.Area= 267 sf Storage= 203 cf

Plug-Flow detention time= 115.9 min calculated for 727 cf (81% of inflow)

Center-of-Mass det. time= 45.0 min (816.2 - 771.2)

Volume	Invert	Avail.Storage	Storage Description	
#1	213.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.99	267	0.0	0	0
214.00	267	40.0	1	1
216.99	267	40.0	319	320
217.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	216.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	215.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 215.50' / 215.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	213.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.65 hrs HW=214.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.11 hrs HW=215.88' TW=199.93' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.06 fps)**Summary for Pond DE44: DRIP #44**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 893 cf
 Outflow = 0.25 cfs @ 12.11 hrs, Volume= 729 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 5.65 hrs, Volume= 77 cf
 Primary = 0.25 cfs @ 12.11 hrs, Volume= 652 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 217.89' @ 12.11 hrs Surf.Area= 267 sf Storage= 203 cf

Plug-Flow detention time= 115.9 min calculated for 727 cf (81% of inflow)

Center-of-Mass det. time= 45.0 min (816.2 - 771.2)

Volume	Invert	Avail.Storage	Storage Description
#1	215.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
215.99	267	0.0	0	0
216.00	267	40.0	1	1
218.99	267	40.0	319	320
219.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	218.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 217.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 217.50' / 217.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 215.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.65 hrs HW=216.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.11 hrs HW=217.88' TW=199.93' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.06 fps)**Summary for Pond DE45: DRIP #45**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 918 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 80 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 837 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.94' @ 12.11 hrs Surf.Area= 271 sf Storage= 211 cf

Plug-Flow detention time= 107.7 min calculated for 918 cf (85% of inflow)

Center-of-Mass det. time= 42.9 min (809.7 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	216.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	271	0.0	0	0
217.00	271	40.0	1	1
219.99	271	40.0	324	325
220.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	218.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 218.50' / 218.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	216.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=217.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.29 cfs @ 12.11 hrs HW=218.93' TW=199.92' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)

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Summary for Pond DE47: DRIP #47

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.43 cfs @ 12.09 hrs, Volume= 1,489 cf
 Outflow = 0.40 cfs @ 12.12 hrs, Volume= 1,333 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 110 cf
 Primary = 0.40 cfs @ 12.12 hrs, Volume= 1,222 cf
 Routed to Reach 16R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 218.53' @ 12.12 hrs Surf.Area= 373 sf Storage= 230 cf

Plug-Flow detention time= 84.8 min calculated for 1,330 cf (89% of inflow)
 Center-of-Mass det. time= 34.9 min (801.8 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	216.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	373	0.0	0	0
217.00	373	40.0	1	1
219.99	373	40.0	446	448
220.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	218.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 218.00' / 217.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	216.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=217.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.39 cfs @ 12.12 hrs HW=218.52' TW=216.03' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.39 cfs @ 2.34 fps)

Summary for Pond DE48: DRIP #48

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 5.35" for 25YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 857 cf
 Outflow = 0.24 cfs @ 12.12 hrs, Volume= 678 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 6.35 hrs, Volume= 82 cf
 Primary = 0.24 cfs @ 12.12 hrs, Volume= 597 cf
 Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 216.88' @ 12.12 hrs Surf.Area= 290 sf Storage= 219 cf

Plug-Flow detention time= 122.6 min calculated for 677 cf (79% of inflow)

Center-of-Mass det. time= 46.8 min (822.1 - 775.3)

Volume	Invert	Avail.Storage	Storage Description	
#1	214.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
214.99	290	0.0	0	0
215.00	290	40.0	1	1
217.99	290	40.0	347	348
218.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	217.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	216.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 216.50' / 216.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	214.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 6.35 hrs HW=215.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.23 cfs @ 12.12 hrs HW=216.87' TW=208.60' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.23 cfs @ 2.04 fps)**Summary for Pond DE49: DRIP #49**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 5.47" for 25YR event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 893 cf
 Outflow = 0.25 cfs @ 12.11 hrs, Volume= 729 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 5.65 hrs, Volume= 77 cf
 Primary = 0.25 cfs @ 12.11 hrs, Volume= 652 cf
 Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.89' @ 12.11 hrs Surf.Area= 267 sf Storage= 203 cf

Plug-Flow detention time= 115.9 min calculated for 727 cf (81% of inflow)

Center-of-Mass det. time= 45.0 min (816.2 - 771.2)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.65 hrs HW=213.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.24 cfs @ 12.11 hrs HW=214.88' TW=208.60' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.24 cfs @ 2.06 fps)**Summary for Pond DE5: DRIP #5**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.31 cfs @ 12.09 hrs, Volume= 1,085 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 918 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 4.90 hrs, Volume= 80 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 837 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.54' @ 12.11 hrs Surf.Area= 271 sf Storage= 211 cf

Plug-Flow detention time= 106.9 min calculated for 916 cf (84% of inflow)

Center-of-Mass det. time= 42.9 min (809.7 - 766.8)

Volume	Invert	Avail.Storage	Storage Description
#1	218.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.59	271	0.0	0	0
218.60	271	40.0	1	1
221.59	271	40.0	324	325
221.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	221.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 220.10' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 220.10' / 220.05' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 218.59' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.90 hrs HW=218.62' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.29 cfs @ 12.11 hrs HW=220.53' TW=218.02' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)**Summary for Pond DE61: DRIP #61**

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.80 cfs @ 12.09 hrs, Volume= 2,756 cf
 Outflow = 0.65 cfs @ 12.15 hrs, Volume= 2,606 cf, Atten= 18%, Lag= 3.7 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 197 cf
 Primary = 0.65 cfs @ 12.15 hrs, Volume= 2,409 cf
 Routed to Pond P210 : POCKET WETLAND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.54' @ 12.15 hrs Surf.Area= 665 sf Storage= 359 cf

Plug-Flow detention time= 55.8 min calculated for 2,601 cf (94% of inflow)

Center-of-Mass det. time= 25.7 min (792.5 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=212.21' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.65 cfs @ 12.15 hrs HW=213.54' TW=204.43' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.65 cfs @ 3.30 fps)

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Summary for Pond DE62: DRIP #62

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 5.58" for 25YR event
 Inflow = 0.80 cfs @ 12.09 hrs, Volume= 2,756 cf
 Outflow = 0.65 cfs @ 12.15 hrs, Volume= 2,606 cf, Atten= 18%, Lag= 3.7 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 197 cf
 Primary = 0.65 cfs @ 12.15 hrs, Volume= 2,409 cf
 Routed to Reach 13R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.54' @ 12.15 hrs Surf.Area= 665 sf Storage= 359 cf

Plug-Flow detention time= 55.8 min calculated for 2,601 cf (94% of inflow)
 Center-of-Mass det. time= 25.7 min (792.5 - 766.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=212.21' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.65 cfs @ 12.15 hrs HW=213.54' TW=206.03' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.65 cfs @ 3.30 fps)

Summary for Pond DE63: DRIP #63

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,624 cf
 Outflow = 0.42 cfs @ 12.12 hrs, Volume= 1,535 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 4.10 hrs, Volume= 122 cf
 Primary = 0.42 cfs @ 12.12 hrs, Volume= 1,414 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.06' @ 12.12 hrs Surf.Area= 404 sf Storage= 172 cf

Plug-Flow detention time= 55.8 min calculated for 1,535 cf (95% of inflow)

Center-of-Mass det. time= 24.9 min (787.0 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	404	0.0	0	0
207.00	404	40.0	2	2
208.99	404	40.0	322	323
209.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 207.45' S= 0.0050 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.10 hrs HW=207.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.41 cfs @ 12.12 hrs HW=208.05' TW=202.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.41 cfs @ 2.39 fps)**Summary for Pond DE64: DRIP #64**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf
 Outflow = 0.49 cfs @ 12.13 hrs, Volume= 1,917 cf, Atten= 15%, Lag= 2.6 min
 Discarded = 0.00 cfs @ 3.95 hrs, Volume= 142 cf
 Primary = 0.49 cfs @ 12.13 hrs, Volume= 1,775 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.17' @ 12.14 hrs Surf.Area= 470 sf Storage= 221 cf

Plug-Flow detention time= 54.0 min calculated for 1,917 cf (95% of inflow)

Center-of-Mass det. time= 24.6 min (786.6 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	204.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.99	470	0.0	0	0
205.00	470	40.0	2	2
206.99	470	40.0	374	376
207.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	206.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	205.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 205.50' / 205.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	204.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.95 hrs HW=205.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.13 hrs HW=206.15' TW=202.14' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)**Summary for Pond DE65: DRIP #65**

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,624 cf
 Outflow = 0.42 cfs @ 12.12 hrs, Volume= 1,535 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 4.10 hrs, Volume= 122 cf
 Primary = 0.42 cfs @ 12.12 hrs, Volume= 1,414 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.06' @ 12.12 hrs Surf.Area= 404 sf Storage= 172 cf

Plug-Flow detention time= 55.8 min calculated for 1,535 cf (95% of inflow)

Center-of-Mass det. time= 24.9 min (787.0 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	205.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.99	404	0.0	0	0
206.00	404	40.0	2	2
207.99	404	40.0	322	323
208.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	207.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 206.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 206.50' / 206.45' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 205.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.10 hrs HW=206.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.41 cfs @ 12.12 hrs HW=207.05' TW=202.13' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.41 cfs @ 2.39 fps)**Summary for Pond DE66: DRIP #66**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf
 Outflow = 0.49 cfs @ 12.13 hrs, Volume= 1,917 cf, Atten= 15%, Lag= 2.6 min
 Discarded = 0.00 cfs @ 3.35 hrs, Volume= 142 cf
 Primary = 0.49 cfs @ 12.13 hrs, Volume= 1,775 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.97' @ 12.14 hrs Surf.Area= 470 sf Storage= 221 cf

Plug-Flow detention time= 54.0 min calculated for 1,917 cf (95% of inflow)

Center-of-Mass det. time= 24.6 min (786.6 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.79'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	470	0.0	0	0
207.80	470	40.0	2	2
209.79	470	40.0	374	376
209.80	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.70'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.30' / 208.25' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.35 hrs HW=207.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.13 hrs HW=208.95' TW=202.14' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)

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Summary for Pond DE67: DRIP #67

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf
 Outflow = 0.49 cfs @ 12.13 hrs, Volume= 1,917 cf, Atten= 15%, Lag= 2.6 min
 Discarded = 0.00 cfs @ 3.95 hrs, Volume= 142 cf
 Primary = 0.49 cfs @ 12.13 hrs, Volume= 1,775 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.17' @ 12.14 hrs Surf.Area= 470 sf Storage= 221 cf

Plug-Flow detention time= 54.0 min calculated for 1,917 cf (95% of inflow)
 Center-of-Mass det. time= 24.6 min (786.6 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	470	0.0	0	0
208.00	470	40.0	2	2
209.99	470	40.0	374	376
210.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.95 hrs HW=208.01' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.49 cfs @ 12.13 hrs HW=209.15' TW=202.14' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)

Summary for Pond DE68: DRIP #68

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.80 cfs @ 12.09 hrs, Volume= 2,813 cf
 Outflow = 0.66 cfs @ 12.15 hrs, Volume= 2,667 cf, Atten= 18%, Lag= 3.6 min
 Discarded = 0.00 cfs @ 4.00 hrs, Volume= 201 cf
 Primary = 0.65 cfs @ 12.15 hrs, Volume= 2,466 cf
 Routed to Pond OCS4 : OCS#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.23' @ 12.15 hrs Surf.Area= 665 sf Storage= 330 cf

Plug-Flow detention time= 54.0 min calculated for 2,661 cf (95% of inflow)

Center-of-Mass det. time= 24.8 min (786.8 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	665	0.0	0	0
207.00	665	40.0	3	3
208.99	665	40.0	529	532
209.00	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 206.00' S= 0.0750 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.00 hrs HW=207.01' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.65 cfs @ 12.15 hrs HW=208.23' TW=204.96' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Inlet Controls 0.65 cfs @ 3.32 fps)**Summary for Pond DE69: DRIP #69**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf
 Outflow = 0.49 cfs @ 12.13 hrs, Volume= 1,917 cf, Atten= 15%, Lag= 2.6 min
 Discarded = 0.00 cfs @ 3.95 hrs, Volume= 142 cf
 Primary = 0.49 cfs @ 12.13 hrs, Volume= 1,775 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.67' @ 12.14 hrs Surf.Area= 470 sf Storage= 221 cf

Plug-Flow detention time= 54.0 min calculated for 1,917 cf (95% of inflow)

Center-of-Mass det. time= 24.6 min (786.6 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.49'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.49	470	0.0	0	0
205.50	470	40.0	2	2
207.49	470	40.0	374	376
207.50	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.00' / 205.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.95 hrs HW=205.51' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.13 hrs HW=206.65' TW=202.08' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)**Summary for Pond DE7: DRIP #7**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,155 cf
 Outflow = 0.31 cfs @ 12.11 hrs, Volume= 976 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.45 hrs, Volume= 88 cf
 Primary = 0.31 cfs @ 12.11 hrs, Volume= 889 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.45' @ 12.11 hrs Surf.Area= 290 sf Storage= 227 cf

Plug-Flow detention time= 110.0 min calculated for 976 cf (85% of inflow)

Center-of-Mass det. time= 44.8 min (806.8 - 762.1)

Volume	Invert	Avail.Storage	Storage Description
#1	210.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.49	290	0.0	0	0
210.50	290	40.0	1	1
213.49	290	40.0	347	348
213.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 212.00' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 212.00' / 211.95' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 210.49' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.45 hrs HW=210.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.30 cfs @ 12.11 hrs HW=212.44' TW=211.54' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.30 cfs @ 2.20 fps)**Summary for Pond DE70: DRIP #70**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 2,022 cf
 Outflow = 0.49 cfs @ 12.13 hrs, Volume= 1,917 cf, Atten= 15%, Lag= 2.6 min
 Discarded = 0.00 cfs @ 3.35 hrs, Volume= 142 cf
 Primary = 0.49 cfs @ 12.13 hrs, Volume= 1,775 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.07' @ 12.14 hrs Surf.Area= 470 sf Storage= 221 cf

Plug-Flow detention time= 54.0 min calculated for 1,917 cf (95% of inflow)

Center-of-Mass det. time= 24.6 min (786.6 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.89'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.89	470	0.0	0	0
205.90	470	40.0	2	2
207.89	470	40.0	374	376
207.90	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.40'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.40' / 206.35' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.89'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.35 hrs HW=205.90' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.49 cfs @ 12.13 hrs HW=207.05' TW=202.08' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.49 cfs @ 2.50 fps)

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Summary for Pond DE71: DRIP #71

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.80 cfs @ 12.09 hrs, Volume= 2,813 cf
 Outflow = 0.66 cfs @ 12.15 hrs, Volume= 2,663 cf, Atten= 18%, Lag= 3.7 min
 Discarded = 0.00 cfs @ 4.35 hrs, Volume= 201 cf
 Primary = 0.66 cfs @ 12.15 hrs, Volume= 2,462 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 207.85' @ 12.15 hrs Surf.Area= 665 sf Storage= 361 cf

Plug-Flow detention time= 56.1 min calculated for 2,658 cf (94% of inflow)
 Center-of-Mass det. time= 26.3 min (788.4 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.49'	805 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.49	665	0.0	0	0
206.50	665	40.0	3	3
209.49	665	40.0	795	798
209.50	665	100.0	7	805

Device	Routing	Invert	Outlet Devices
#1	Primary	209.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.00' / 206.95' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.35 hrs HW=206.52' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.65 cfs @ 12.15 hrs HW=207.85' TW=202.17' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.65 cfs @ 3.33 fps)

Summary for Pond DE8: DRIP #8

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.32 cfs @ 12.09 hrs, Volume= 1,107 cf
 Outflow = 0.30 cfs @ 12.11 hrs, Volume= 940 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 4.40 hrs, Volume= 82 cf
 Primary = 0.30 cfs @ 12.11 hrs, Volume= 858 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 213.54' @ 12.11 hrs Surf.Area= 271 sf Storage= 211 cf

Plug-Flow detention time= 108.4 min calculated for 940 cf (85% of inflow)

Center-of-Mass det. time= 44.1 min (806.2 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	271	0.0	0	0
211.60	271	40.0	1	1
214.59	271	40.0	324	325
214.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.10' / 213.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.40 hrs HW=211.62' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.29 cfs @ 12.11 hrs HW=213.53' TW=211.54' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.29 cfs @ 2.17 fps)**Summary for Pond DE9: DRIP #9**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 5.70" for 25YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,301 cf
 Outflow = 0.35 cfs @ 12.12 hrs, Volume= 1,101 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 98 cf
 Primary = 0.35 cfs @ 12.12 hrs, Volume= 1,004 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.88' @ 12.12 hrs Surf.Area= 323 sf Storage= 258 cf

Plug-Flow detention time= 109.7 min calculated for 1,101 cf (85% of inflow)

Center-of-Mass det. time= 44.8 min (806.9 - 762.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.89'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.89	323	0.0	0	0
211.90	323	40.0	1	1
214.89	323	40.0	386	388
214.90	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.80'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.40'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.40' / 213.35' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.89'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=211.90' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.12 hrs HW=213.88' TW=211.54' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DECH: DRIP #CH**

Inflow Area = 6,087 sf, 100.00% Impervious, Inflow Depth > 6.05" for 25YR event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 3,068 cf
 Outflow = 0.45 cfs @ 12.28 hrs, Volume= 3,067 cf, Atten= 47%, Lag= 11.9 min
 Discarded = 0.04 cfs @ 9.95 hrs, Volume= 1,720 cf
 Primary = 0.41 cfs @ 12.28 hrs, Volume= 1,348 cf
 Routed to Pond CB18 : CB #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.96' @ 12.22 hrs Surf.Area= 636 sf Storage= 500 cf

Plug-Flow detention time= 20.9 min calculated for 3,061 cf (100% of inflow)

Center-of-Mass det. time= 20.7 min (764.8 - 744.0)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	636	0.0	0	0
208.00	636	40.0	3	3
210.99	636	40.0	761	763
211.00	636	100.0	6	770

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.50' **4.0" Round Culvert** L= 80.0' Ke= 0.500
 Inlet / Outlet Invert= 208.50' / 205.10' S= 0.0425 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.09 sf
 #3 Discarded 207.99' **2.410 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.04 cfs @ 9.95 hrs HW=208.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.04 cfs)**Primary OutFlow** Max=0.41 cfs @ 12.28 hrs HW=209.90' TW=205.59' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Outlet Controls 0.41 cfs @ 4.74 fps)**Summary for Pond OCS1: OCS#1**

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 5.65" for 25YR event
 Inflow = 9.28 cfs @ 12.09 hrs, Volume= 32,614 cf
 Outflow = 9.28 cfs @ 12.09 hrs, Volume= 32,614 cf, Atten= 0%, Lag= 0.0 min
 Primary = 9.28 cfs @ 12.09 hrs, Volume= 32,614 cf
 Routed to Pond P206 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 196.73' @ 12.12 hrs

Flood Elev= 201.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.07 cfs @ 12.09 hrs HW=196.66' TW=196.20' (Dynamic Tailwater)↑ **1=Orifice/Grate** (Orifice Controls 9.07 cfs @ 3.26 fps)**Summary for Pond OCS3: OCS#3**

Inflow Area = 54,550 sf, 83.49% Impervious, Inflow Depth > 5.22" for 25YR event
 Inflow = 6.82 cfs @ 12.09 hrs, Volume= 23,735 cf
 Outflow = 6.82 cfs @ 12.09 hrs, Volume= 23,735 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.82 cfs @ 12.09 hrs, Volume= 23,735 cf
 Routed to Pond p204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.35' @ 12.15 hrs

Flood Elev= 209.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=6.66 cfs @ 12.09 hrs HW=205.23' TW=204.61' (Dynamic Tailwater)↑ **1=Orifice/Grate** (Orifice Controls 6.66 cfs @ 3.77 fps)

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Summary for Pond OCS4: OCS#4

Inflow Area = 19,582 sf, 26.87% Impervious, Inflow Depth > 3.76" for 25YR event
 Inflow = 1.78 cfs @ 12.10 hrs, Volume= 6,140 cf
 Outflow = 1.78 cfs @ 12.10 hrs, Volume= 6,140 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.78 cfs @ 12.10 hrs, Volume= 6,140 cf
 Routed to Pond P204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.12' @ 12.25 hrs

Flood Elev= 208.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.77 cfs @ 12.10 hrs HW=204.74' TW=204.70' (Dynamic Tailwater)
 ↑ **1=Orifice/Grate** (Orifice Controls 1.77 cfs @ 1.00 fps)

Summary for Pond P204: STORMTECH INFILTRATION SYSTEM

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth > 4.84" for 25YR event
 Inflow = 8.59 cfs @ 12.09 hrs, Volume= 29,875 cf
 Outflow = 4.64 cfs @ 12.26 hrs, Volume= 27,456 cf, Atten= 46%, Lag= 10.1 min
 Discarded = 0.09 cfs @ 8.25 hrs, Volume= 6,091 cf
 Primary = 4.55 cfs @ 12.26 hrs, Volume= 21,364 cf
 Routed to Reach 20r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.11' @ 12.26 hrs Surf.Area= 5,670 sf Storage= 9,899 cf

Flood Elev= 208.75' Surf.Area= 5,670 sf Storage= 13,379 cf

Plug-Flow detention time= 95.2 min calculated for 27,399 cf (92% of inflow)

Center-of-Mass det. time= 54.4 min (828.0 - 773.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	202.50'	5,923 cf	77.50'W x 67.70'L x 4.08'H STORMTECH SC-740 21,423 cf Overall - 6,615 cf Embedded = 14,808 cf x 40.0% Voids
#2A	203.08'	6,615 cf	ADS_StormTech SC-740 +Cap x 144 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 144 Chambers in 16 Rows
#3B	202.50'	427 cf	6.25'W x 67.70'L x 3.50'H ISOLATOR ROW 1,481 cf Overall - 413 cf Embedded = 1,067 cf x 40.0% Voids
#4B	203.00'	413 cf	ADS_StormTech SC-740 +Cap x 9 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap
		13,379 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Storage Group B created with Chamber Wizard

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Type III 24-hr 25YR Rainfall=6.29"

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Device	Routing	Invert	Outlet Devices
#1	Primary	202.75'	15.0" Round Culvert L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 202.75' / 201.00' S= 0.0500 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#2	Device 1	204.75'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Device 1	203.25'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Discarded	202.50'	0.660 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.09 cfs @ 8.25 hrs HW=202.57' (Free Discharge)↳ **4=Exfiltration** (Exfiltration Controls 0.09 cfs)**Primary OutFlow** Max=4.52 cfs @ 12.26 hrs HW=205.10' TW=200.12' (Dynamic Tailwater)↳ **1=Culvert** (Passes 4.52 cfs of 7.77 cfs potential flow)↳ **2=Broad-Crested Rectangular Weir** (Weir Controls 2.44 cfs @ 1.72 fps)↳ **3=Orifice/Grate** (Orifice Controls 2.07 cfs @ 5.94 fps)**Summary for Pond P205: POCKET WETLAND #2**

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 3.56" for 25YR event
 Inflow = 20.31 cfs @ 12.14 hrs, Volume= 92,785 cf
 Outflow = 4.95 cfs @ 12.79 hrs, Volume= 72,930 cf, Atten= 76%, Lag= 39.1 min
 Primary = 4.95 cfs @ 12.79 hrs, Volume= 72,930 cf
 Routed to Reach 18R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 197.00' Surf.Area= 538 sf Storage= 455 cf

Peak Elev= 202.10' @ 12.79 hrs Surf.Area= 13,874 sf Storage= 43,722 cf (43,267 cf above start)

Plug-Flow detention time= 259.9 min calculated for 72,324 cf (78% of inflow)

Center-of-Mass det. time= 176.2 min (1,000.0 - 823.8)

Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	65,076 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	371	0	0
197.00	538	455	455
198.00	5,675	3,107	3,561
200.00	9,686	15,361	18,922
202.00	13,696	23,382	42,304
203.00	15,427	14,562	56,866
203.50	17,413	8,210	65,076

Device	Routing	Invert	Outlet Devices
#1	Primary	202.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	196.00'	18.0" Round Culvert L= 63.0' Ke= 0.500 Inlet / Outlet Invert= 196.00' / 194.00' S= 0.0317 '/' Cc= 0.900

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n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
 #3 Device 2 197.00' **5.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
 #4 Device 2 202.00' **6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns**
 X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area)
 Limited to weir flow at low heads

Primary OutFlow Max=4.93 cfs @ 12.79 hrs HW=202.10' TW=192.25' (Dynamic Tailwater)

1=Broad-Crested Rectangular Weir (Weir Controls 1.76 cfs @ 0.86 fps)

2=Culvert (Passes 3.17 cfs of 19.69 cfs potential flow)

3=Orifice/Grate (Orifice Controls 1.45 cfs @ 10.65 fps)

4=Orifice/Grate (Weir Controls 1.72 cfs @ 1.05 fps)

Summary for Pond P206: STORMTECH INFILTRATION SYSTEM

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 5.65" for 25YR event
 Inflow = 9.28 cfs @ 12.09 hrs, Volume= 32,614 cf
 Outflow = 5.99 cfs @ 12.19 hrs, Volume= 32,610 cf, Atten= 35%, Lag= 6.3 min
 Discarded = 0.49 cfs @ 10.75 hrs, Volume= 23,125 cf
 Primary = 5.50 cfs @ 12.19 hrs, Volume= 9,486 cf
 Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 196.42' @ 12.19 hrs Surf.Area= 6,072 sf Storage= 7,571 cf

Plug-Flow detention time= 57.8 min calculated for 32,610 cf (100% of inflow)
 Center-of-Mass det. time= 57.7 min (817.5 - 759.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	194.67'	1,786 cf	39.50'W x 53.46'L x 3.33'H FIELD A 7,038 cf Overall - 2,573 cf Embedded = 4,466 cf x 40.0% Voids
#2A	195.00'	2,573 cf	ADS_StormTech SC-740 +Cap x 56 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 56 Chambers in 8 Rows
#3B	194.67'	3,296 cf	58.50'W x 67.70'L x 3.33'H FIELD B 13,201 cf Overall - 4,962 cf Embedded = 8,239 cf x 40.0% Voids
#4B	195.00'	4,962 cf	ADS_StormTech SC-740 +Cap x 108 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 108 Chambers in 12 Rows
		12,616 cf	Total Available Storage

Storage Group A created with Chamber Wizard
 Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	194.00'	18.0" Round Culvert L= 30.0' Ke= 0.200 Inlet / Outlet Invert= 194.00' / 193.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	195.85'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#3	Discarded	194.67'	3.500 in/hr Exfiltration over Surface area Phase-In= 0.01'

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Discarded OutFlow Max=0.49 cfs @ 10.75 hrs HW=194.71' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.49 cfs)**Primary OutFlow** Max=5.45 cfs @ 12.19 hrs HW=196.42' TW=0.00' (Dynamic Tailwater)↑ **1=Culvert** (Passes 5.45 cfs of 11.09 cfs potential flow)↑ **2=Sharp-Crested Rectangular Weir** (Weir Controls 5.45 cfs @ 2.47 fps)**Summary for Pond P207: INFILTRATION POND #2**

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth > 4.92" for 25YR event
 Inflow = 13.65 cfs @ 12.09 hrs, Volume= 48,425 cf
 Outflow = 2.98 cfs @ 12.54 hrs, Volume= 48,408 cf, Atten= 78%, Lag= 26.8 min
 Discarded = 1.02 cfs @ 12.54 hrs, Volume= 36,579 cf
 Primary = 1.96 cfs @ 12.54 hrs, Volume= 11,830 cf
 Routed to Reach 10r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 198.27' @ 12.54 hrs Surf.Area= 11,922 sf Storage= 16,026 cf

Plug-Flow detention time= 67.3 min calculated for 48,308 cf (100% of inflow)
 Center-of-Mass det. time= 66.9 min (851.4 - 784.5)

Volume	Invert	Avail.Storage	Storage Description
#1	196.80'	38,940 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.80	9,900	0	0
198.00	11,500	12,840	12,840
200.00	14,600	26,100	38,940

Device	Routing	Invert	Outlet Devices
#1	Primary	199.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	195.00'	15.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 194.50' S= 0.0125 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#3	Device 2	199.00'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads
#4	Device 2	197.40'	7.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#5	Discarded	196.80'	3.690 in/hr Exfiltration over Surface area Phase-In= 0.01'

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Discarded OutFlow Max=1.02 cfs @ 12.54 hrs HW=198.27' (Free Discharge)↳ **5=Exfiltration** (Exfiltration Controls 1.02 cfs)**Primary OutFlow** Max=1.96 cfs @ 12.54 hrs HW=198.27' TW=192.28' (Dynamic Tailwater)↳ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↳ **2=Culvert** (Passes 1.96 cfs of 9.61 cfs potential flow)↳ **3=Orifice/Grate** (Controls 0.00 cfs)↳ **4=Orifice/Grate** (Orifice Controls 1.96 cfs @ 3.67 fps)**Summary for Pond P210: POCKET WETLAND #1**

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 4.67" for 25YR event

Inflow = 12.30 cfs @ 12.09 hrs, Volume= 41,588 cf

Outflow = 4.80 cfs @ 12.35 hrs, Volume= 24,274 cf, Atten= 61%, Lag= 15.4 min

Primary = 4.80 cfs @ 12.35 hrs, Volume= 24,274 cf

Routed to Reach 15R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 201.00' Surf.Area= 376 sf Storage= 591 cf

Peak Elev= 204.70' @ 12.35 hrs Surf.Area= 9,889 sf Storage= 21,112 cf (20,521 cf above start)

Plug-Flow detention time= 244.0 min calculated for 23,683 cf (57% of inflow)

Center-of-Mass det. time= 129.0 min (915.1 - 786.2)

Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	43,190 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	218	0	0
200.00	294	256	256
201.00	376	335	591
202.00	3,991	2,184	2,775
204.00	8,073	12,064	14,839
206.00	13,272	21,345	36,184
206.50	14,753	7,006	43,190

Device	Routing	Invert	Outlet Devices
#1	Primary	205.10'	20.0' long x 15.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	202.25'	12.0" Round Culvert L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 202.25' / 202.03' S= 0.0050 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	202.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 2	204.50'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads

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Primary OutFlow Max=4.80 cfs @ 12.35 hrs HW=204.70' TW=202.16' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 4.80 cfs @ 6.11 fps)↑ **3=Orifice/Grate** (Passes < 0.25 cfs potential flow)↑ **4=Orifice/Grate** (Passes < 4.62 cfs potential flow)**Summary for Pond P212: INFILTRATION POND #1**

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth > 4.82" for 25YR event

Inflow = 26.62 cfs @ 12.11 hrs, Volume= 110,843 cf

Outflow = 13.50 cfs @ 12.41 hrs, Volume= 110,816 cf, Atten= 49%, Lag= 18.0 min

Discarded = 2.11 cfs @ 12.41 hrs, Volume= 75,597 cf

Primary = 11.39 cfs @ 12.41 hrs, Volume= 35,219 cf

Routed to Reach r211 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.75' @ 12.41 hrs Surf.Area= 17,743 sf Storage= 36,110 cf

Plug-Flow detention time= 89.7 min calculated for 110,816 cf (100% of inflow)

Center-of-Mass det. time= 89.5 min (883.8 - 794.3)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	60,838 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	7,528	0	0
201.00	12,295	9,912	9,912
202.00	15,371	13,833	23,745
204.00	21,722	37,093	60,838

Device	Routing	Invert	Outlet Devices
#1	Primary	202.50'	25.0' long x 20.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	201.30'	12.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.10' S= 0.0050 ' S= 0.0050 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#3	Discarded	200.00'	5.130 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=2.11 cfs @ 12.41 hrs HW=202.75' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 2.11 cfs)**Primary OutFlow** Max=11.31 cfs @ 12.41 hrs HW=202.75' TW=200.26' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 8.15 cfs @ 1.33 fps)↑ **2=Culvert** (Barrel Controls 3.16 cfs @ 4.02 fps)

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Summary for Link AP1: ANALYSIS POINT 1

Inflow Area = 11,582 sf, 80.55% Impervious, Inflow Depth > 5.24" for 25YR event
Inflow = 1.50 cfs @ 12.09 hrs, Volume= 5,055 cf
Primary = 1.50 cfs @ 12.09 hrs, Volume= 5,055 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 815,829 sf, 13.52% Impervious, Inflow Depth > 3.63" for 25YR event
Inflow = 30.93 cfs @ 12.42 hrs, Volume= 246,738 cf
Primary = 30.93 cfs @ 12.42 hrs, Volume= 246,738 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 46,924 sf, 0.00% Impervious, Inflow Depth > 3.33" for 25YR event
Inflow = 4.12 cfs @ 12.09 hrs, Volume= 13,012 cf
Primary = 4.12 cfs @ 12.09 hrs, Volume= 13,012 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP4: ANALYSIS POINT #4

Inflow Area = 1,699,585 sf, 28.90% Impervious, Inflow Depth > 2.43" for 25YR event
Inflow = 40.32 cfs @ 12.38 hrs, Volume= 344,849 cf
Primary = 40.32 cfs @ 12.38 hrs, Volume= 344,849 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentB1: MULTIFAMILY BLDG	Runoff Area=25,099 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=5.01 cfs 18,436 cf
SubcatchmentB2: MULTIFAMILY BLDG	Runoff Area=17,602 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=3.51 cfs 12,929 cf
SubcatchmentC1: CB #1	Runoff Area=26,588 sf 32.90% Impervious Runoff Depth>5.74" Flow Length=413' Tc=16.1 min CN=73 Runoff=3.02 cfs 12,727 cf
SubcatchmentC10: CB #10	Runoff Area=9,660 sf 94.65% Impervious Runoff Depth>8.69" Tc=6.0 min CN=97 Runoff=1.92 cfs 6,999 cf
SubcatchmentC11: CB #11	Runoff Area=13,834 sf 51.04% Impervious Runoff Depth>7.36" Tc=6.0 min CN=86 Runoff=2.55 cfs 8,482 cf
SubcatchmentC12: CB #12	Runoff Area=9,596 sf 47.54% Impervious Runoff Depth>7.23" Tc=6.0 min CN=85 Runoff=1.75 cfs 5,785 cf
SubcatchmentC13: CB #13	Runoff Area=8,572 sf 67.67% Impervious Runoff Depth>7.85" Tc=6.0 min CN=90 Runoff=1.64 cfs 5,604 cf
SubcatchmentC14: CB #14	Runoff Area=12,986 sf 75.60% Impervious Runoff Depth>7.23" Tc=6.0 min CN=85 Runoff=2.37 cfs 7,829 cf
SubcatchmentC15: CB #15	Runoff Area=4,895 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.98 cfs 3,596 cf
SubcatchmentC16: CB #16	Runoff Area=8,063 sf 64.54% Impervious Runoff Depth>6.50" Tc=6.0 min CN=79 Runoff=1.35 cfs 4,365 cf
SubcatchmentC17: CB #17	Runoff Area=11,845 sf 77.88% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=2.32 cfs 8,104 cf
SubcatchmentC18: CB #18	Runoff Area=19,016 sf 66.41% Impervious Runoff Depth>7.85" Tc=6.0 min CN=90 Runoff=3.64 cfs 12,433 cf
SubcatchmentC2: CB #2	Runoff Area=19,138 sf 74.07% Impervious Runoff Depth>7.85" Tc=6.0 min CN=90 Runoff=3.66 cfs 12,512 cf
SubcatchmentC20: CB #20	Runoff Area=11,694 sf 79.49% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=2.29 cfs 8,001 cf
SubcatchmentC21: CB #21	Runoff Area=9,093 sf 91.54% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=1.78 cfs 6,221 cf
SubcatchmentC22: CB #22	Runoff Area=9,139 sf 88.07% Impervious Runoff Depth>8.57" Tc=6.0 min CN=96 Runoff=1.81 cfs 6,529 cf

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SubcatchmentC23: CB #23	Runoff Area=9,139 sf 62.65% Impervious Runoff Depth>7.72" Tc=6.0 min CN=89 Runoff=1.73 cfs 5,882 cf
SubcatchmentC24: CB #24	Runoff Area=1,933 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.39 cfs 1,420 cf
SubcatchmentC25: CB #25	Runoff Area=8,811 sf 96.03% Impervious Runoff Depth>8.69" Tc=6.0 min CN=97 Runoff=1.75 cfs 6,383 cf
SubcatchmentC26: CB #26	Runoff Area=14,532 sf 64.66% Impervious Runoff Depth>8.09" Tc=6.0 min CN=92 Runoff=2.82 cfs 9,796 cf
SubcatchmentC27: CB #27	Runoff Area=9,808 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=1.96 cfs 7,204 cf
SubcatchmentC28: CB #28	Runoff Area=10,368 sf 51.34% Impervious Runoff Depth>7.60" Tc=6.0 min CN=88 Runoff=1.95 cfs 6,568 cf
SubcatchmentC29: CB #29	Runoff Area=6,798 sf 77.21% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=1.33 cfs 4,651 cf
SubcatchmentC3: CB #3	Runoff Area=17,454 sf 72.05% Impervious Runoff Depth>7.60" Tc=6.0 min CN=88 Runoff=3.28 cfs 11,057 cf
SubcatchmentC30: CB #30	Runoff Area=12,141 sf 63.92% Impervious Runoff Depth>7.72" Tc=6.0 min CN=89 Runoff=2.30 cfs 7,814 cf
SubcatchmentC31: CB #31	Runoff Area=11,736 sf 71.29% Impervious Runoff Depth>7.97" Tc=6.0 min CN=91 Runoff=2.26 cfs 7,792 cf
SubcatchmentC32: CB #32	Runoff Area=10,801 sf 62.85% Impervious Runoff Depth>7.72" Tc=6.0 min CN=89 Runoff=2.05 cfs 6,952 cf
SubcatchmentC33: CB #33	Runoff Area=4,514 sf 77.96% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=0.88 cfs 3,088 cf
SubcatchmentC34: CB #34	Runoff Area=7,027 sf 72.62% Impervious Runoff Depth>7.97" Tc=6.0 min CN=91 Runoff=1.36 cfs 4,666 cf
SubcatchmentC35: CB #35	Runoff Area=2,891 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.58 cfs 2,124 cf
SubcatchmentC36: CB #36	Runoff Area=6,622 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=1.32 cfs 4,864 cf
SubcatchmentC37: CB #37	Runoff Area=1,258 sf 93.72% Impervious Runoff Depth>8.69" Tc=6.0 min CN=97 Runoff=0.25 cfs 911 cf
SubcatchmentC38: CB #38	Runoff Area=19,951 sf 77.05% Impervious Runoff Depth>7.85" Tc=6.0 min CN=90 Runoff=3.82 cfs 13,044 cf
SubcatchmentC39: CB #39	Runoff Area=7,773 sf 98.44% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=1.55 cfs 5,710 cf

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SubcatchmentC4: CB #4	Runoff Area=44,168 sf 23.30% Impervious Runoff Depth>5.24" Flow Length=545' Tc=21.4 min CN=69 Runoff=4.09 cfs 19,297 cf
SubcatchmentC40: CB #40	Runoff Area=4,556 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.91 cfs 3,347 cf
SubcatchmentC41: CB #41	Runoff Area=12,750 sf 69.28% Impervious Runoff Depth>7.48" Tc=6.0 min CN=87 Runoff=2.37 cfs 7,947 cf
SubcatchmentC42: CB #42	Runoff Area=11,277 sf 36.51% Impervious Runoff Depth>6.00" Tc=6.0 min CN=75 Runoff=1.77 cfs 5,641 cf
SubcatchmentC43: CB #43	Runoff Area=4,084 sf 81.61% Impervious Runoff Depth>7.97" Tc=6.0 min CN=91 Runoff=0.79 cfs 2,712 cf
SubcatchmentC44: CB #44	Runoff Area=1,662 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.33 cfs 1,221 cf
SubcatchmentC45: CB #45	Runoff Area=2,109 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.42 cfs 1,549 cf
SubcatchmentC46: CB #46	Runoff Area=1,371 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.27 cfs 1,007 cf
SubcatchmentC47: CB#47	Runoff Area=3,060 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.61 cfs 2,248 cf
SubcatchmentC48: CB#48	Runoff Area=60,166 sf 25.94% Impervious Runoff Depth>5.38" Flow Length=400' Tc=11.8 min CN=70 Runoff=7.16 cfs 26,960 cf
SubcatchmentC49: CB#49	Runoff Area=5,895 sf 28.14% Impervious Runoff Depth>5.51" Tc=6.0 min CN=71 Runoff=0.85 cfs 2,705 cf
SubcatchmentC5: CB #5	Runoff Area=1,456 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.29 cfs 1,069 cf
SubcatchmentC50: CB#50	Runoff Area=5,175 sf 33.29% Impervious Runoff Depth>5.63" Tc=6.0 min CN=72 Runoff=0.77 cfs 2,428 cf
SubcatchmentC51: CB #51	Runoff Area=9,779 sf 84.41% Impervious Runoff Depth>8.09" Tc=6.0 min CN=92 Runoff=1.90 cfs 6,592 cf
SubcatchmentC6: CB #6	Runoff Area=1,821 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=0.36 cfs 1,338 cf
SubcatchmentC7: CB #7	Runoff Area=12,883 sf 48.58% Impervious Runoff Depth>6.50" Tc=6.0 min CN=79 Runoff=2.16 cfs 6,975 cf
SubcatchmentC8: CB #8	Runoff Area=44,098 sf 25.01% Impervious Runoff Depth>5.37" Flow Length=520' Tc=18.2 min CN=70 Runoff=4.47 cfs 19,734 cf

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SubcatchmentC9: CB #9	Runoff Area=14,681 sf 77.77% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=2.87 cfs 10,044 cf
SubcatchmentCH1: CLUBHOUSE	Runoff Area=6,087 sf 100.00% Impervious Runoff Depth>8.81" Tc=6.0 min CN=98 Runoff=1.21 cfs 4,471 cf
SubcatchmentH1: SF #1	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.54 cfs 1,903 cf
SubcatchmentH10: SF #10	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.48 cfs 1,714 cf
SubcatchmentH11: SF #11	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.54 cfs 1,931 cf
SubcatchmentH12: SF #12	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.63 cfs 2,255 cf
SubcatchmentH13: SF #13	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>8.57" Tc=6.0 min CN=96 Runoff=0.81 cfs 2,928 cf
SubcatchmentH14: SF #14	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.48 cfs 1,714 cf
SubcatchmentH15: SF #15	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.38 cfs 1,334 cf
SubcatchmentH16: SF #16	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.48 cfs 1,714 cf
SubcatchmentH17: SF #17	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>7.85" Tc=6.0 min CN=90 Runoff=0.38 cfs 1,282 cf
SubcatchmentH18: SF #18	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>7.97" Tc=6.0 min CN=91 Runoff=0.53 cfs 1,820 cf
SubcatchmentH19: SF #19	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>7.97" Tc=6.0 min CN=91 Runoff=0.47 cfs 1,616 cf
SubcatchmentH2: SF #2	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>8.09" Tc=6.0 min CN=92 Runoff=0.37 cfs 1,295 cf
SubcatchmentH20: SF #20	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>7.85" Tc=6.0 min CN=90 Runoff=0.37 cfs 1,256 cf
SubcatchmentH21: SF #21	Runoff Area=1,961 sf 86.33% Impervious Runoff Depth>7.97" Tc=6.0 min CN=91 Runoff=0.38 cfs 1,302 cf
SubcatchmentH22: SF #22	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.63 cfs 2,255 cf
SubcatchmentH23: SF #23	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.46 cfs 1,643 cf

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SubcatchmentH24: SF #24	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.54 cfs 1,931 cf
SubcatchmentH25: SF #25	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.54 cfs 1,931 cf
SubcatchmentH26: SF #26	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.46 cfs 1,643 cf
SubcatchmentH27: SF #27	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.48 cfs 1,714 cf
SubcatchmentH28: SF #28	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.48 cfs 1,714 cf
SubcatchmentH29: SF #29	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.46 cfs 1,643 cf
SubcatchmentH3: SF #3	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.46 cfs 1,620 cf
SubcatchmentH30: SF #30	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.54 cfs 1,931 cf
SubcatchmentH31: SF #31	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.54 cfs 1,931 cf
SubcatchmentH32: SF #32	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.46 cfs 1,643 cf
SubcatchmentH33: SF #33	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.38 cfs 1,334 cf
SubcatchmentH34: SF #34	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.81 cfs 2,886 cf
SubcatchmentH35: SF #35	Runoff Area=4,098 sf 90.65% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.81 cfs 2,886 cf
SubcatchmentH36: SF #36	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.63 cfs 2,255 cf
SubcatchmentH37: SF #37	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.63 cfs 2,223 cf
SubcatchmentH38: SF #38	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.54 cfs 1,903 cf
SubcatchmentH39: SF #39	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.46 cfs 1,620 cf

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SubcatchmentH4: SF #4	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.54 cfs 1,903 cf
SubcatchmentH40: SF #40	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.54 cfs 1,903 cf
SubcatchmentH41: SF #41	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.54 cfs 1,903 cf
SubcatchmentH42: SF #42	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=0.38 cfs 1,342 cf
SubcatchmentH43: SF #43	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=0.38 cfs 1,342 cf
SubcatchmentH44: SF #44	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=0.38 cfs 1,342 cf
SubcatchmentH45: SF #45	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.46 cfs 1,620 cf
SubcatchmentH46: SF #46	Runoff Area=3,202 sf 88.35% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.63 cfs 2,223 cf
SubcatchmentH47: SF #47	Runoff Area=1,921 sf 84.90% Impervious Runoff Depth>8.09" Tc=6.0 min CN=92 Runoff=0.37 cfs 1,295 cf
SubcatchmentH48: SF #48	Runoff Area=1,961 sf 86.38% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=0.38 cfs 1,342 cf
SubcatchmentH5: SF #5	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=0.46 cfs 1,620 cf
SubcatchmentH7: SF #7	Runoff Area=2,434 sf 88.09% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.48 cfs 1,714 cf
SubcatchmentH8: SF #8	Runoff Area=2,333 sf 88.38% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.46 cfs 1,643 cf
SubcatchmentH9: SF #9	Runoff Area=2,741 sf 88.22% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.54 cfs 1,931 cf
SubcatchmentS201: SUMMER STREET	Runoff Area=11,582 sf 80.55% Impervious Runoff Depth>7.97" Tc=6.0 min CN=91 Runoff=2.23 cfs 7,690 cf
SubcatchmentS202: EXISTING WETLAND	Runoff Area=401,873 sf 3.47% Impervious Runoff Depth>6.36" Flow Length=1,049' Tc=21.5 min CN=78 Runoff=44.48 cfs 212,846 cf
SubcatchmentS203: POCKET WETLAND #1	Runoff Area=25,574 sf 1.29% Impervious Runoff Depth>5.88" Tc=6.0 min CN=74 Runoff=3.94 cfs 12,529 cf
SubcatchmentS204: EXISTING WETLANDS	Runoff Area=269,528 sf 0.10% Impervious Runoff Depth>6.48" Flow Length=632' Tc=22.6 min CN=79 Runoff=29.72 cfs 145,491 cf

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Subcatchment S205: ISOLATED WETLAND	Runoff Area=46,924 sf 0.00% Impervious Runoff Depth>5.76" Tc=6.0 min CN=73 Runoff=7.09 cfs 22,504 cf
Subcatchment S206: OVERLAND FLOW	Runoff Area=647,746 sf 0.00% Impervious Runoff Depth>4.74" Flow Length=795' Tc=24.3 min CN=65 Runoff=51.43 cfs 256,084 cf
Subcatchment S207: INFILTRATION POND	Runoff Area=21,058 sf 0.00% Impervious Runoff Depth>7.23" Tc=6.0 min CN=85 Runoff=3.84 cfs 12,696 cf
Subcatchment S208: GRASS AREA	Runoff Area=13,656 sf 0.00% Impervious Runoff Depth>5.63" Tc=6.0 min CN=72 Runoff=2.02 cfs 6,408 cf
Subcatchment S209: WETLAND C	Runoff Area=108,678 sf 0.00% Impervious Runoff Depth>5.73" Flow Length=550' Slope=0.0150 '/' Tc=27.3 min CN=73 Runoff=9.90 cfs 51,905 cf
Subcatchment S210: INFILTRATION	Runoff Area=114,678 sf 23.23% Impervious Runoff Depth>7.10" Flow Length=580' Slope=0.0150 '/' Tc=16.5 min CN=84 Runoff=15.44 cfs 67,847 cf
Subcatchment S211: POCKET WETLAND #2	Runoff Area=45,277 sf 0.00% Impervious Runoff Depth>6.11" Flow Length=528' Slope=0.0400 '/' Tc=22.0 min CN=76 Runoff=4.79 cfs 23,047 cf
Subcatchment S212: SWALE	Runoff Area=31,136 sf 0.00% Impervious Runoff Depth>6.24" Flow Length=150' Slope=0.0050 '/' Tc=18.8 min CN=77 Runoff=3.58 cfs 16,179 cf
Subcatchment S213: COURTYARD	Runoff Area=21,271 sf 40.78% Impervious Runoff Depth>6.74" Tc=6.0 min CN=81 Runoff=3.68 cfs 11,953 cf
Subcatchment T1: Trench Drain 1	Runoff Area=9,454 sf 79.45% Impervious Runoff Depth>8.21" Tc=6.0 min CN=93 Runoff=1.85 cfs 6,468 cf
Subcatchment T2: Drive Under B2	Runoff Area=5,585 sf 70.30% Impervious Runoff Depth>6.74" Tc=6.0 min CN=81 Runoff=0.97 cfs 3,138 cf
Subcatchment TH1: TOWN HOUSE #1	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=1.17 cfs 4,114 cf
Subcatchment TH10: TOWN HOUSE #10	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.84 cfs 3,000 cf
Subcatchment TH11: TOWN HOUSE #11	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=1.17 cfs 4,174 cf
Subcatchment TH2: TOWN HOUSE #2	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>8.33" Tc=6.0 min CN=94 Runoff=1.17 cfs 4,114 cf
Subcatchment TH3: TOWN HOUSE #3	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.68 cfs 2,410 cf
Subcatchment TH4: TOWN HOUSE #4	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.84 cfs 3,000 cf

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Subcatchment TH5: TOWN HOUSE #5	Runoff Area=3,422 sf 88.19% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.68 cfs 2,410 cf
Subcatchment TH6: TOWN HOUSE #6	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.84 cfs 3,000 cf
Subcatchment TH7: TOWN HOUSE #7	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.84 cfs 3,000 cf
Subcatchment TH8: TOWN HOUSE #8	Runoff Area=5,926 sf 88.78% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=1.17 cfs 4,174 cf
Subcatchment TH9: TOWN HOUSE #9	Runoff Area=4,259 sf 88.96% Impervious Runoff Depth>8.45" Tc=6.0 min CN=95 Runoff=0.84 cfs 3,000 cf
Reach 1R: OVERLAND FLOW	Avg. Flow Depth=0.06' Max Vel=0.07 fps Inflow=2.20 cfs 7,003 cf n=0.400 L=1,350.0' S=0.0133 '/' Capacity=22.21 cfs Outflow=0.21 cfs 5,218 cf
Reach 3R: OVERLAND FLOW	Avg. Flow Depth=0.10' Max Vel=0.10 fps Inflow=1.38 cfs 4,461 cf n=0.400 L=475.0' S=0.0174 '/' Capacity=20.48 cfs Outflow=0.42 cfs 4,200 cf
Reach 4R: OVERLAND FLOW	Avg. Flow Depth=0.12' Max Vel=0.13 fps Inflow=2.32 cfs 7,584 cf n=0.400 L=535.0' S=0.0224 '/' Capacity=30.09 cfs Outflow=0.76 cfs 7,182 cf
Reach 7R: OVERLAND FLOW	Avg. Flow Depth=0.07' Max Vel=0.10 fps Inflow=1.44 cfs 5,051 cf n=0.400 L=730.0' S=0.0247 '/' Capacity=30.21 cfs Outflow=0.33 cfs 4,565 cf
Reach 8R: OVERLAND FLOW	Avg. Flow Depth=0.06' Max Vel=0.09 fps Inflow=1.42 cfs 4,770 cf n=0.400 L=756.0' S=0.0238 '/' Capacity=31.01 cfs Outflow=0.29 cfs 4,268 cf
Reach 9R: OVERLAND FLOW	Avg. Flow Depth=0.25' Max Vel=0.27 fps Inflow=2.99 cfs 9,256 cf n=0.400 L=380.0' S=0.0368 '/' Capacity=19.23 cfs Outflow=1.74 cfs 9,066 cf
Reach 10R: OVERLAND FLOW	Avg. Flow Depth=0.46' Max Vel=0.38 fps Inflow=4.88 cfs 28,185 cf n=0.400 L=164.0' S=0.0366 '/' Capacity=17.57 cfs Outflow=4.34 cfs 28,184 cf
Reach 11R: 4x4 Open Bottom Culvert	Avg. Flow Depth=2.38' Max Vel=2.79 fps Inflow=26.52 cfs 170,012 cf 48.0" x 48.0" Box Pipe n=0.069 L=30.0' S=0.0150 '/' Capacity=42.20 cfs Outflow=26.52 cfs 169,998 cf
Reach 12R: OVERLAND FLOW	Avg. Flow Depth=0.21' Max Vel=0.20 fps Inflow=3.38 cfs 12,622 cf n=0.400 L=250.0' S=0.0240 '/' Capacity=29.80 cfs Outflow=2.22 cfs 12,413 cf
Reach 13R: OVERLAND FLOW	Avg. Flow Depth=0.06' Max Vel=0.07 fps Inflow=0.92 cfs 3,755 cf n=0.400 L=660.0' S=0.0152 '/' Capacity=24.73 cfs Outflow=0.20 cfs 3,304 cf
Reach 14R: OVERLAND FLOW	Avg. Flow Depth=0.19' Max Vel=0.19 fps Inflow=4.71 cfs 22,641 cf n=0.400 L=852.0' S=0.0246 '/' Capacity=31.55 cfs Outflow=1.94 cfs 21,245 cf
Reach 15R: OVERLAND FLOW	Avg. Flow Depth=0.46' Max Vel=0.30 fps Inflow=10.37 cfs 46,642 cf n=0.400 L=300.0' S=0.0200 '/' Capacity=27.21 cfs Outflow=7.28 cfs 45,746 cf
Reach 16R: OVERLAND FLOW	Avg. Flow Depth=0.05' Max Vel=0.09 fps Inflow=0.56 cfs 1,950 cf n=0.400 L=263.0' S=0.0266 '/' Capacity=31.39 cfs Outflow=0.23 cfs 1,886 cf

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Reach 18R: OVERLAND FLOW Avg. Flow Depth=0.80' Max Vel=0.53 fps Inflow=28.49 cfs 129,658 cf
n=0.400 L=184.0' S=0.0326 ' /' Capacity=36.29 cfs Outflow=24.80 cfs 128,348 cf

Reach 20R: OVERLAND FLOW Avg. Flow Depth=0.40' Max Vel=0.19 fps Inflow=9.06 cfs 36,804 cf
n=0.400 L=560.0' S=0.0093 ' /' Capacity=18.54 cfs Outflow=3.92 cfs 35,649 cf

Reach 23R: OVERLAND FLOW Avg. Flow Depth=0.87' Max Vel=0.42 fps Inflow=26.52 cfs 169,998 cf
n=0.400 L=237.0' S=0.0211 ' /' Capacity=31.93 cfs Outflow=24.85 cfs 169,137 cf

Reach R202: OVERLAND FLOW Avg. Flow Depth=0.74' Max Vel=0.29 fps Inflow=44.49 cfs 212,814 cf
n=0.400 L=700.0' S=0.0107 ' /' Capacity=42.56 cfs Outflow=25.09 cfs 205,681 cf

Reach R211: OVERLAND FLOW Avg. Flow Depth=0.97' Max Vel=0.29 fps Inflow=30.84 cfs 79,833 cf
n=0.400 L=600.0' S=0.0087 ' /' Capacity=14.51 cfs Outflow=13.79 cfs 79,320 cf

Reach SC1: Stream Crossing #1 Avg. Flow Depth=0.59' Max Vel=4.70 fps Inflow=44.48 cfs 212,846 cf
192.0" x 60.0", R=207.0" Arch Pipe n=0.030 L=43.1' S=0.0200 ' /' Capacity=722.91 cfs Outflow=44.49 cfs 212,814 cf

Reach SC2: Stream Crossing #2 Avg. Flow Depth=0.13' Max Vel=2.00 fps Inflow=4.21 cfs 20,189 cf
192.0" x 60.0", R=180.0" Arch Pipe n=0.030 L=36.5' S=0.0241 ' /' Capacity=768.96 cfs Outflow=4.20 cfs 20,186 cf

Pond 5R: TRENCH DRAIN Peak Elev=199.09' Inflow=1.85 cfs 6,468 cf
15.0" Round Culvert n=0.012 L=24.0' S=0.0050 ' /' Outflow=1.85 cfs 6,468 cf

Pond 11P: YARD DRAIN Peak Elev=207.48' Storage=1,322 cf Inflow=3.68 cfs 11,953 cf
Outflow=2.89 cfs 11,888 cf

Pond CB1: CB#1 Peak Elev=209.21' Inflow=3.02 cfs 12,727 cf
12.0" Round Culvert n=0.013 L=14.1' S=0.0050 ' /' Outflow=3.02 cfs 12,727 cf

Pond CB10: CB #10 Peak Elev=211.19' Inflow=1.92 cfs 6,999 cf
12.0" Round Culvert n=0.013 L=33.8' S=0.0050 ' /' Outflow=1.92 cfs 6,999 cf

Pond CB11: CB #11 Peak Elev=211.38' Inflow=2.55 cfs 8,482 cf
12.0" Round Culvert n=0.013 L=26.3' S=0.0103 ' /' Outflow=2.55 cfs 8,482 cf

Pond CB12: CB #12 Peak Elev=210.57' Inflow=1.75 cfs 5,785 cf
12.0" Round Culvert n=0.013 L=14.0' S=0.0050 ' /' Outflow=1.75 cfs 5,785 cf

Pond CB13: CB #13 Peak Elev=210.54' Inflow=1.64 cfs 5,604 cf
12.0" Round Culvert n=0.013 L=14.6' S=0.0048 ' /' Outflow=1.64 cfs 5,604 cf

Pond CB14: CB #14 Peak Elev=203.08' Inflow=2.37 cfs 7,829 cf
12.0" Round Culvert n=0.013 L=23.2' S=0.0052 ' /' Outflow=2.37 cfs 7,829 cf

Pond CB15: CB #15 Peak Elev=202.76' Inflow=0.98 cfs 3,596 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 ' /' Outflow=0.98 cfs 3,596 cf

Pond CB16: CB #16 Peak Elev=204.30' Inflow=1.35 cfs 4,365 cf
12.0" Round Culvert n=0.013 L=20.9' S=0.0067 ' /' Outflow=1.35 cfs 4,365 cf

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Pond CB17: CB #17Peak Elev=207.94' Inflow=2.32 cfs 8,104 cf
12.0" Round Culvert n=0.013 L=13.8' S=0.0094 ' Outflow=2.32 cfs 8,104 cf**Pond CB18: CB #18**Peak Elev=208.02' Inflow=3.95 cfs 14,811 cf
15.0" Round Culvert n=0.013 L=25.1' S=0.0052 ' Outflow=3.95 cfs 14,811 cf**Pond CB2: CB#2**Peak Elev=207.22' Inflow=3.66 cfs 12,512 cf
12.0" Round Culvert n=0.013 L=92.1' S=0.0050 ' Outflow=3.66 cfs 12,512 cf**Pond CB20: CB #20**Peak Elev=205.53' Inflow=2.29 cfs 8,001 cf
12.0" Round Culvert n=0.013 L=30.3' S=0.0053 ' Outflow=2.29 cfs 8,001 cf**Pond CB21: CB #21**Peak Elev=205.39' Inflow=1.78 cfs 6,221 cf
12.0" Round Culvert n=0.013 L=26.0' S=0.0050 ' Outflow=1.78 cfs 6,221 cf**Pond CB22: CB #22**Peak Elev=206.63' Inflow=1.81 cfs 6,529 cf
12.0" Round Culvert n=0.012 L=16.1' S=0.0050 ' Outflow=1.81 cfs 6,529 cf**Pond CB23: CB #23**Peak Elev=206.61' Inflow=1.73 cfs 5,882 cf
12.0" Round Culvert n=0.012 L=16.3' S=0.0055 ' Outflow=1.73 cfs 5,882 cf**Pond CB24: CB #24**Peak Elev=206.58' Inflow=0.39 cfs 1,420 cf
12.0" Round Culvert n=0.012 L=12.1' S=0.0050 ' Outflow=0.39 cfs 1,420 cf**Pond CB25: CB #25**Peak Elev=206.78' Inflow=1.75 cfs 6,383 cf
12.0" Round Culvert n=0.012 L=11.4' S=0.0053 ' Outflow=1.75 cfs 6,383 cf**Pond CB26: CB #26**Peak Elev=203.18' Inflow=2.82 cfs 9,796 cf
12.0" Round Culvert n=0.013 L=42.5' S=0.0052 ' Outflow=2.82 cfs 9,796 cf**Pond CB27: CB #27**Peak Elev=202.91' Inflow=1.96 cfs 7,204 cf
12.0" Round Culvert n=0.013 L=18.0' S=0.0056 ' Outflow=1.96 cfs 7,204 cf**Pond CB28: CB #28**Peak Elev=199.71' Inflow=1.95 cfs 6,568 cf
12.0" Round Culvert n=0.013 L=13.7' S=0.0044 ' Outflow=1.95 cfs 6,568 cf**Pond CB29: CB #29**Peak Elev=207.65' Inflow=1.33 cfs 4,651 cf
12.0" Round Culvert n=0.013 L=13.5' S=0.0052 ' Outflow=1.33 cfs 4,651 cf**Pond CB3: CB#3**Peak Elev=209.24' Inflow=3.28 cfs 11,057 cf
12.0" Round Culvert n=0.013 L=10.2' S=0.0059 ' Outflow=3.28 cfs 11,057 cf**Pond CB30: CB #30**Peak Elev=207.90' Inflow=2.30 cfs 7,814 cf
12.0" Round Culvert n=0.013 L=17.5' S=0.0051 ' Outflow=2.30 cfs 7,814 cf**Pond CB31: CB #31**Peak Elev=205.32' Inflow=2.26 cfs 7,792 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' Outflow=2.26 cfs 7,792 cf**Pond CB32: CB #32**Peak Elev=205.26' Inflow=2.05 cfs 6,952 cf
12.0" Round Culvert n=0.013 L=16.3' S=0.0049 ' Outflow=2.05 cfs 6,952 cf**Pond CB33: CB #33**Peak Elev=206.20' Inflow=0.88 cfs 3,088 cf
12.0" Round Culvert n=0.013 L=11.7' S=0.0051 ' Outflow=0.88 cfs 3,088 cf

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Pond CB34: CB #34

Peak Elev=206.27' Inflow=1.36 cfs 4,666 cf
12.0" Round Culvert n=0.013 L=16.5' S=0.0048 ' Outflow=1.36 cfs 4,666 cf

Pond CB35: CB #35

Peak Elev=207.59' Inflow=0.58 cfs 2,124 cf
12.0" Round Culvert n=0.013 L=15.2' S=0.0053 ' Outflow=0.58 cfs 2,124 cf

Pond CB36: CB #36

Peak Elev=207.78' Inflow=1.32 cfs 4,864 cf
12.0" Round Culvert n=0.013 L=16.1' S=0.0050 ' Outflow=1.32 cfs 4,864 cf

Pond CB37: CB #37

Peak Elev=209.32' Inflow=0.25 cfs 911 cf
12.0" Round Culvert n=0.013 L=77.2' S=0.0098 ' Outflow=0.25 cfs 911 cf

Pond CB38: CB #38

Peak Elev=212.83' Inflow=3.82 cfs 13,044 cf
12.0" Round Culvert n=0.012 L=16.7' S=0.0048 ' Outflow=3.82 cfs 13,044 cf

Pond CB39: CB #39

Peak Elev=211.99' Inflow=1.55 cfs 5,710 cf
12.0" Round Culvert n=0.013 L=16.4' S=0.0049 ' Outflow=1.55 cfs 5,710 cf

Pond CB4: CB#4

Peak Elev=213.64' Inflow=4.09 cfs 19,297 cf
15.0" Round Culvert n=0.012 L=13.1' S=0.0046 ' Outflow=4.09 cfs 19,297 cf

Pond CB40: CB #40

Peak Elev=215.33' Inflow=0.91 cfs 3,347 cf
12.0" Round Culvert n=0.013 L=26.7' S=0.0049 ' Outflow=0.91 cfs 3,347 cf

Pond CB41: CB #41

Peak Elev=215.66' Inflow=2.37 cfs 7,947 cf
12.0" Round Culvert n=0.013 L=18.4' S=0.0049 ' Outflow=2.37 cfs 7,947 cf

Pond CB42: CB #42

Peak Elev=218.72' Inflow=1.77 cfs 5,641 cf
12.0" Round Culvert n=0.013 L=58.1' S=0.0076 ' Outflow=1.77 cfs 5,641 cf

Pond CB43: CB #43

Peak Elev=220.68' Inflow=0.79 cfs 2,712 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' Outflow=0.79 cfs 2,712 cf

Pond CB44: CB #44

Peak Elev=220.60' Inflow=0.33 cfs 1,221 cf
12.0" Round Culvert n=0.013 L=14.9' S=0.0047 ' Outflow=0.33 cfs 1,221 cf

Pond CB45: CB #45

Peak Elev=221.68' Inflow=0.42 cfs 1,549 cf
12.0" Round Culvert n=0.013 L=18.2' S=0.0049 ' Outflow=0.42 cfs 1,549 cf

Pond CB46: CB #46

Peak Elev=221.84' Inflow=0.27 cfs 1,007 cf
12.0" Round Culvert n=0.013 L=15.3' S=0.0052 ' Outflow=0.27 cfs 1,007 cf

Pond CB47: CB#47

Peak Elev=226.24' Inflow=0.61 cfs 2,248 cf
12.0" Round Culvert n=0.012 L=20.9' S=0.0373 ' Outflow=0.61 cfs 2,248 cf

Pond CB48: CB#48

Peak Elev=227.69' Inflow=7.16 cfs 26,960 cf
15.0" Round Culvert n=0.012 L=16.9' S=0.0278 ' Outflow=7.16 cfs 26,960 cf

Pond CB49: CB#49

Peak Elev=218.12' Inflow=0.85 cfs 2,705 cf
12.0" Round Culvert n=0.012 L=15.4' S=0.0156 ' Outflow=0.85 cfs 2,705 cf

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Pond CB5: CB#5

Peak Elev=213.31' Inflow=0.29 cfs 1,069 cf
12.0" Round Culvert n=0.012 L=30.5' S=0.0049 '/' Outflow=0.29 cfs 1,069 cf

Pond CB50: CB#50

Peak Elev=218.12' Inflow=0.77 cfs 2,428 cf
12.0" Round Culvert n=0.012 L=17.3' S=0.0497 '/' Outflow=0.77 cfs 2,428 cf

Pond CB51: CB #51

Peak Elev=210.53' Inflow=1.90 cfs 6,592 cf
12.0" Round Culvert n=0.013 L=16.9' S=0.0047 '/' Outflow=1.90 cfs 6,592 cf

Pond CB6: CB#6

Peak Elev=213.31' Inflow=0.36 cfs 1,338 cf
12.0" Round Culvert n=0.012 L=38.3' S=0.0112 '/' Outflow=0.36 cfs 1,338 cf

Pond CB7: CB#7

Peak Elev=215.48' Inflow=2.16 cfs 6,975 cf
12.0" Round Culvert n=0.013 L=104.0' S=0.0088 '/' Outflow=2.16 cfs 6,975 cf

Pond CB8: CB#8

Peak Elev=215.96' Inflow=4.47 cfs 19,734 cf
12.0" Round Culvert n=0.013 L=12.1' S=0.0050 '/' Outflow=4.47 cfs 19,734 cf

Pond CB9: CB #9

Peak Elev=211.50' Inflow=2.87 cfs 10,044 cf
12.0" Round Culvert n=0.013 L=19.9' S=0.0196 '/' Outflow=2.87 cfs 10,044 cf

Pond D1: DMH#1

Peak Elev=205.81' Inflow=25.96 cfs 119,050 cf
30.0" Round Culvert n=0.013 L=24.6' S=0.0049 '/' Outflow=25.96 cfs 119,050 cf

Pond D10: DMH #10

Peak Elev=204.08' Inflow=1.35 cfs 4,365 cf
12.0" Round Culvert n=0.013 L=15.6' S=0.0051 '/' Outflow=1.35 cfs 4,365 cf

Pond D11: DMH #11

Peak Elev=207.90' Inflow=6.27 cfs 22,915 cf
15.0" Round Culvert n=0.013 L=44.6' S=0.0049 '/' Outflow=6.27 cfs 22,915 cf

Pond D12: DMH #12

Peak Elev=205.17' Inflow=4.06 cfs 14,222 cf
12.0" Round Culvert n=0.013 L=41.9' S=0.0050 '/' Outflow=4.06 cfs 14,222 cf

Pond D13: DMH #13

Peak Elev=203.92' Inflow=12.27 cfs 46,325 cf
24.0" Round Culvert n=0.013 L=60.1' S=0.0050 '/' Outflow=12.27 cfs 46,325 cf

Pond D14: DMH #14

Peak Elev=206.43' Inflow=5.69 cfs 20,215 cf
15.0" Round Culvert n=0.012 L=246.6' S=0.0050 '/' Outflow=5.69 cfs 20,215 cf

Pond D16: DMH #16

Peak Elev=206.57' Inflow=2.14 cfs 7,803 cf
15.0" Round Culvert n=0.012 L=103.5' S=0.0050 '/' Outflow=2.14 cfs 7,803 cf

Pond D17: DMH #17

Peak Elev=202.64' Inflow=4.78 cfs 17,000 cf
12.0" Round Culvert n=0.013 L=91.6' S=0.0312 '/' Outflow=4.78 cfs 17,000 cf

Pond D18: DMH #18

Peak Elev=199.44' Inflow=6.73 cfs 23,568 cf
15.0" Round Culvert n=0.013 L=46.3' S=0.0099 '/' Outflow=6.73 cfs 23,568 cf

Pond D19: DMH #19

Peak Elev=207.53' Inflow=3.63 cfs 12,466 cf
12.0" Round Culvert n=0.013 L=82.5' S=0.0092 '/' Outflow=3.63 cfs 12,466 cf

Pond D2: DMH#2

Peak Elev=208.49' Inflow=23.09 cfs 106,537 cf
30.0" Round Culvert n=0.013 L=129.9' S=0.0145 '/' Outflow=23.09 cfs 106,537 cf

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Pond D20: DMH #20	Peak Elev=206.18' Inflow=3.63 cfs 12,466 cf 12.0" Round Culvert n=0.013 L=63.5' S=0.0049 ' ' Outflow=3.63 cfs 12,466 cf
Pond D21: DMH #21	Peak Elev=204.98' Inflow=12.33 cfs 42,862 cf 24.0" Round Culvert n=0.013 L=72.4' S=0.0050 ' ' Outflow=12.33 cfs 42,862 cf
Pond D22: DMH #22	Peak Elev=206.14' Inflow=4.39 cfs 15,653 cf 15.0" Round Culvert n=0.013 L=134.2' S=0.0071 ' ' Outflow=4.39 cfs 15,653 cf
Pond D23: DMH #23	Peak Elev=207.47' Inflow=2.15 cfs 7,899 cf 15.0" Round Culvert n=0.013 L=173.3' S=0.0100 ' ' Outflow=2.15 cfs 7,899 cf
Pond D24: DMH #24	Peak Elev=208.48' Inflow=0.25 cfs 911 cf 12.0" Round Culvert n=0.013 L=140.9' S=0.0077 ' ' Outflow=0.25 cfs 911 cf
Pond D25: DMH #25	Peak Elev=211.91' Inflow=12.23 cfs 42,176 cf 18.0" Round Culvert n=0.012 L=78.6' S=0.0051 ' ' Outflow=12.23 cfs 42,176 cf
Pond D26: DMH #26	Peak Elev=209.86' Inflow=12.23 cfs 42,176 cf 24.0" Round Culvert n=0.013 L=127.0' S=0.0050 ' ' Outflow=12.23 cfs 42,176 cf
Pond D27: DMH #27	Peak Elev=215.27' Inflow=6.86 cfs 23,423 cf 15.0" Round Culvert n=0.012 L=247.1' S=0.0195 ' ' Outflow=6.86 cfs 23,423 cf
Pond D28: DMH #28	Peak Elev=218.12' Inflow=3.58 cfs 12,130 cf 15.0" Round Culvert n=0.013 L=189.5' S=0.0196 ' ' Outflow=3.58 cfs 12,130 cf
Pond D29: DMH #29	Peak Elev=220.57' Inflow=1.81 cfs 6,488 cf 12.0" Round Culvert n=0.013 L=118.4' S=0.0193 ' ' Outflow=1.81 cfs 6,488 cf
Pond D3: DMH#3	Peak Elev=213.30' Inflow=17.93 cfs 82,754 cf 24.0" Round Culvert n=0.012 L=282.0' S=0.0146 ' ' Outflow=17.93 cfs 82,754 cf
Pond D30: DMH #30	Peak Elev=221.43' Inflow=0.69 cfs 2,556 cf 12.0" Round Culvert n=0.013 L=184.2' S=0.0050 ' ' Outflow=0.69 cfs 2,556 cf
Pond D31: DMH#31	Peak Elev=226.22' Inflow=7.61 cfs 29,207 cf 15.0" Round Culvert n=0.012 L=158.7' S=0.0598 ' ' Outflow=7.61 cfs 29,207 cf
Pond D32: DMH#32	Peak Elev=218.09' Inflow=8.89 cfs 34,341 cf 15.0" Round Culvert n=0.012 L=122.0' S=0.0050 ' ' Outflow=8.89 cfs 34,341 cf
Pond D33: DMH #33	Peak Elev=209.08' Inflow=14.13 cfs 48,768 cf 24.0" Round Culvert n=0.013 L=39.0' S=0.0051 ' ' Outflow=14.13 cfs 48,768 cf
Pond D34: DMH #34	Peak Elev=198.99' Inflow=6.86 cfs 24,904 cf 15.0" Round Culvert n=0.012 L=51.0' S=0.0049 ' ' Outflow=6.86 cfs 24,904 cf
Pond D4: DMH#4	Peak Elev=214.64' Inflow=14.30 cfs 61,050 cf 24.0" Round Culvert n=0.012 L=131.1' S=0.0125 ' ' Outflow=14.30 cfs 61,050 cf

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Pond D5: DMH #5Peak Elev=210.94' Inflow=7.34 cfs 25,525 cf
18.0" Round Culvert n=0.013 L=183.0' S=0.0050 ' ' Outflow=7.34 cfs 25,525 cf**Pond D6: DMH #6**Peak Elev=209.74' Inflow=7.34 cfs 25,525 cf
18.0" Round Culvert n=0.013 L=299.7' S=0.0050 ' ' Outflow=7.34 cfs 25,525 cf**Pond D7: DMH #7**Peak Elev=207.72' Inflow=10.73 cfs 36,914 cf
24.0" Round Culvert n=0.013 L=101.8' S=0.0050 ' ' Outflow=10.73 cfs 36,914 cf**Pond D8: DMH #8**Peak Elev=202.69' Inflow=3.34 cfs 11,425 cf
12.0" Round Culvert n=0.013 L=87.7' S=0.0050 ' ' Outflow=3.34 cfs 11,425 cf**Pond D9: DMH #9**Peak Elev=201.50' Inflow=3.34 cfs 11,425 cf
12.0" Round Culvert n=0.013 L=11.9' S=0.0050 ' ' Outflow=3.34 cfs 11,425 cf**Pond DE1: DRIP #1**Peak Elev=224.15' Storage=279 cf Inflow=0.54 cfs 1,903 cf
Discarded=0.00 cfs 100 cf Primary=0.49 cfs 1,602 cf Outflow=0.49 cfs 1,702 cf**Pond DE10: DRIP #10**Peak Elev=214.09' Storage=244 cf Inflow=0.48 cfs 1,714 cf
Discarded=0.00 cfs 91 cf Primary=0.45 cfs 1,443 cf Outflow=0.45 cfs 1,534 cf**Pond DE11: DRIP #11**Peak Elev=213.15' Storage=279 cf Inflow=0.54 cfs 1,931 cf
Discarded=0.00 cfs 101 cf Primary=0.49 cfs 1,628 cf Outflow=0.49 cfs 1,730 cf**Pond DE12: DRIP #12**Peak Elev=212.44' Storage=262 cf Inflow=0.63 cfs 2,255 cf
Discarded=0.00 cfs 117 cf Primary=0.56 cfs 1,980 cf Outflow=0.56 cfs 2,097 cf**Pond DE13: DRIP #13**Peak Elev=212.43' Storage=374 cf Inflow=0.81 cfs 2,928 cf
Discarded=0.00 cfs 123 cf Primary=0.72 cfs 2,565 cf Outflow=0.73 cfs 2,688 cf**Pond DE14: DRIP #14**Peak Elev=210.49' Storage=244 cf Inflow=0.48 cfs 1,714 cf
Discarded=0.00 cfs 91 cf Primary=0.45 cfs 1,443 cf Outflow=0.45 cfs 1,534 cf**Pond DE15: DRIP #15**Peak Elev=209.79' Storage=232 cf Inflow=0.38 cfs 1,334 cf
Discarded=0.00 cfs 89 cf Primary=0.36 cfs 1,065 cf Outflow=0.36 cfs 1,154 cf**Pond DE16: DRIP #16**Peak Elev=209.39' Storage=244 cf Inflow=0.48 cfs 1,714 cf
Discarded=0.00 cfs 91 cf Primary=0.45 cfs 1,443 cf Outflow=0.45 cfs 1,534 cf**Pond DE17: DRIP #17**Peak Elev=205.09' Storage=214 cf Inflow=0.38 cfs 1,282 cf
Discarded=0.00 cfs 78 cf Primary=0.36 cfs 1,039 cf Outflow=0.36 cfs 1,117 cf**Pond DE18: DRIP #18**Peak Elev=206.94' Storage=277 cf Inflow=0.53 cfs 1,820 cf
Discarded=0.00 cfs 96 cf Primary=0.48 cfs 1,523 cf Outflow=0.49 cfs 1,619 cf**Pond DE19: DRIP #19**Peak Elev=207.68' Storage=242 cf Inflow=0.47 cfs 1,616 cf
Discarded=0.00 cfs 86 cf Primary=0.44 cfs 1,350 cf Outflow=0.44 cfs 1,436 cf**Pond DE2: DRIP #2**Peak Elev=223.49' Storage=197 cf Inflow=0.37 cfs 1,295 cf
Discarded=0.00 cfs 87 cf Primary=0.35 cfs 1,064 cf Outflow=0.35 cfs 1,150 cf**Pond DE20: DRIP #20**Peak Elev=208.28' Storage=231 cf Inflow=0.37 cfs 1,256 cf
Discarded=0.00 cfs 84 cf Primary=0.35 cfs 992 cf Outflow=0.35 cfs 1,077 cf

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Pond DE21: DRIP #21	Peak Elev=208.70' Storage=215 cf Inflow=0.38 cfs 1,302 cf Discarded=0.00 cfs 79 cf Primary=0.36 cfs 1,057 cf Outflow=0.36 cfs 1,136 cf
Pond DE22: DRIP #22	Peak Elev=209.74' Storage=336 cf Inflow=0.63 cfs 2,255 cf Discarded=0.00 cfs 117 cf Primary=0.56 cfs 1,906 cf Outflow=0.56 cfs 2,023 cf
Pond DE23: DRIP #23	Peak Elev=210.04' Storage=223 cf Inflow=0.46 cfs 1,643 cf Discarded=0.00 cfs 85 cf Primary=0.44 cfs 1,390 cf Outflow=0.44 cfs 1,475 cf
Pond DE24: DRIP #24	Peak Elev=211.25' Storage=344 cf Inflow=0.54 cfs 1,931 cf Discarded=0.00 cfs 101 cf Primary=0.49 cfs 1,564 cf Outflow=0.49 cfs 1,665 cf
Pond DE25: DRIP #25	Peak Elev=211.45' Storage=279 cf Inflow=0.54 cfs 1,931 cf Discarded=0.00 cfs 101 cf Primary=0.49 cfs 1,628 cf Outflow=0.49 cfs 1,730 cf
Pond DE26: DRIP #26	Peak Elev=212.07' Storage=226 cf Inflow=0.46 cfs 1,643 cf Discarded=0.00 cfs 85 cf Primary=0.44 cfs 1,390 cf Outflow=0.44 cfs 1,475 cf
Pond DE27: DRIP #27	Peak Elev=212.69' Storage=128 cf Inflow=0.48 cfs 1,714 cf Discarded=0.00 cfs 91 cf Primary=0.45 cfs 1,559 cf Outflow=0.45 cfs 1,650 cf
Pond DE28: DRIP #28	Peak Elev=213.59' Storage=244 cf Inflow=0.48 cfs 1,714 cf Discarded=0.00 cfs 91 cf Primary=0.45 cfs 1,443 cf Outflow=0.45 cfs 1,534 cf
Pond DE29: DRIP #29	Peak Elev=213.57' Storage=161 cf Inflow=0.46 cfs 1,643 cf Discarded=0.00 cfs 85 cf Primary=0.44 cfs 1,455 cf Outflow=0.44 cfs 1,540 cf
Pond DE3: DRIP #3	Peak Elev=222.87' Storage=226 cf Inflow=0.46 cfs 1,620 cf Discarded=0.00 cfs 84 cf Primary=0.43 cfs 1,368 cf Outflow=0.44 cfs 1,451 cf
Pond DE30: DRIP #30	Peak Elev=213.90' Storage=221 cf Inflow=0.54 cfs 1,931 cf Discarded=0.00 cfs 101 cf Primary=0.49 cfs 1,686 cf Outflow=0.49 cfs 1,788 cf
Pond DE31: DRIP #31	Peak Elev=214.15' Storage=279 cf Inflow=0.54 cfs 1,931 cf Discarded=0.00 cfs 101 cf Primary=0.49 cfs 1,628 cf Outflow=0.49 cfs 1,730 cf
Pond DE32: DRIP #32	Peak Elev=213.47' Storage=226 cf Inflow=0.46 cfs 1,643 cf Discarded=0.00 cfs 85 cf Primary=0.44 cfs 1,390 cf Outflow=0.44 cfs 1,475 cf
Pond DE33: DRIP #33	Peak Elev=212.59' Storage=232 cf Inflow=0.38 cfs 1,334 cf Discarded=0.00 cfs 89 cf Primary=0.36 cfs 1,065 cf Outflow=0.36 cfs 1,154 cf
Pond DE34: DRIP #34	Peak Elev=212.73' Storage=374 cf Inflow=0.81 cfs 2,886 cf Discarded=0.00 cfs 121 cf Primary=0.72 cfs 2,526 cf Outflow=0.72 cfs 2,646 cf
Pond DE35: DRIP #35	Peak Elev=211.43' Storage=374 cf Inflow=0.81 cfs 2,886 cf Discarded=0.00 cfs 121 cf Primary=0.72 cfs 2,526 cf Outflow=0.72 cfs 2,646 cf
Pond DE36: DRIP #36	Peak Elev=208.74' Storage=262 cf Inflow=0.63 cfs 2,255 cf Discarded=0.00 cfs 117 cf Primary=0.56 cfs 1,980 cf Outflow=0.56 cfs 2,097 cf

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Pond DE37: DRIP #37	Peak Elev=209.74' Storage=261 cf Inflow=0.63 cfs 2,223 cf Discarded=0.00 cfs 116 cf Primary=0.56 cfs 1,950 cf Outflow=0.56 cfs 2,065 cf
Pond DE38: DRIP #39	Peak Elev=211.15' Storage=279 cf Inflow=0.54 cfs 1,903 cf Discarded=0.00 cfs 100 cf Primary=0.49 cfs 1,602 cf Outflow=0.49 cfs 1,702 cf
Pond DE39: DRIP #39	Peak Elev=212.07' Storage=226 cf Inflow=0.46 cfs 1,620 cf Discarded=0.00 cfs 84 cf Primary=0.43 cfs 1,368 cf Outflow=0.44 cfs 1,451 cf
Pond DE4: DRIP #4	Peak Elev=221.15' Storage=279 cf Inflow=0.54 cfs 1,903 cf Discarded=0.00 cfs 100 cf Primary=0.49 cfs 1,602 cf Outflow=0.49 cfs 1,702 cf
Pond DE40: DRIP #40	Peak Elev=213.15' Storage=279 cf Inflow=0.54 cfs 1,903 cf Discarded=0.00 cfs 100 cf Primary=0.49 cfs 1,602 cf Outflow=0.49 cfs 1,702 cf
Pond DE41: DRIP #41	Peak Elev=214.15' Storage=279 cf Inflow=0.54 cfs 1,903 cf Discarded=0.00 cfs 100 cf Primary=0.49 cfs 1,602 cf Outflow=0.49 cfs 1,702 cf
Pond DE42: DRIP #42	Peak Elev=215.00' Storage=215 cf Inflow=0.38 cfs 1,342 cf Discarded=0.00 cfs 81 cf Primary=0.37 cfs 1,095 cf Outflow=0.37 cfs 1,176 cf
Pond DE43: DRIP #43	Peak Elev=216.00' Storage=215 cf Inflow=0.38 cfs 1,342 cf Discarded=0.00 cfs 81 cf Primary=0.37 cfs 1,095 cf Outflow=0.37 cfs 1,176 cf
Pond DE44: DRIP #44	Peak Elev=218.00' Storage=215 cf Inflow=0.38 cfs 1,342 cf Discarded=0.00 cfs 81 cf Primary=0.37 cfs 1,095 cf Outflow=0.37 cfs 1,176 cf
Pond DE45: DRIP #45	Peak Elev=219.07' Storage=226 cf Inflow=0.46 cfs 1,620 cf Discarded=0.00 cfs 84 cf Primary=0.43 cfs 1,368 cf Outflow=0.44 cfs 1,451 cf
Pond DE47: DRIP #47	Peak Elev=218.74' Storage=261 cf Inflow=0.63 cfs 2,223 cf Discarded=0.00 cfs 116 cf Primary=0.56 cfs 1,950 cf Outflow=0.56 cfs 2,065 cf
Pond DE48: DRIP #48	Peak Elev=216.99' Storage=232 cf Inflow=0.37 cfs 1,295 cf Discarded=0.00 cfs 87 cf Primary=0.35 cfs 1,029 cf Outflow=0.35 cfs 1,115 cf
Pond DE49: DRIP #49	Peak Elev=215.00' Storage=215 cf Inflow=0.38 cfs 1,342 cf Discarded=0.00 cfs 81 cf Primary=0.37 cfs 1,095 cf Outflow=0.37 cfs 1,176 cf
Pond DE5: DRIP #5	Peak Elev=220.67' Storage=226 cf Inflow=0.46 cfs 1,620 cf Discarded=0.00 cfs 84 cf Primary=0.43 cfs 1,368 cf Outflow=0.44 cfs 1,451 cf
Pond DE61: DRIP #61	Peak Elev=213.93' Storage=462 cf Inflow=1.17 cfs 4,114 cf Discarded=0.00 cfs 206 cf Primary=0.92 cfs 3,755 cf Outflow=0.92 cfs 3,961 cf
Pond DE62: DRIP #62	Peak Elev=213.93' Storage=462 cf Inflow=1.17 cfs 4,114 cf Discarded=0.00 cfs 206 cf Primary=0.92 cfs 3,755 cf Outflow=0.92 cfs 3,961 cf
Pond DE63: DRIP #63	Peak Elev=208.28' Storage=208 cf Inflow=0.68 cfs 2,410 cf Discarded=0.00 cfs 127 cf Primary=0.60 cfs 2,193 cf Outflow=0.60 cfs 2,320 cf
Pond DE64: DRIP #64	Peak Elev=206.44' Storage=272 cf Inflow=0.84 cfs 3,000 cf Discarded=0.00 cfs 148 cf Primary=0.73 cfs 2,745 cf Outflow=0.73 cfs 2,893 cf

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Pond DE65: DRIP #65	Peak Elev=207.28' Storage=208 cf Inflow=0.68 cfs 2,410 cf Discarded=0.00 cfs 127 cf Primary=0.60 cfs 2,193 cf Outflow=0.60 cfs 2,320 cf
Pond DE66: DRIP #66	Peak Elev=209.24' Storage=272 cf Inflow=0.84 cfs 3,000 cf Discarded=0.00 cfs 148 cf Primary=0.73 cfs 2,745 cf Outflow=0.73 cfs 2,893 cf
Pond DE67: DRIP #67	Peak Elev=209.44' Storage=272 cf Inflow=0.84 cfs 3,000 cf Discarded=0.00 cfs 148 cf Primary=0.73 cfs 2,745 cf Outflow=0.73 cfs 2,893 cf
Pond DE68: DRIP #68	Peak Elev=208.65' Storage=440 cf Inflow=1.17 cfs 4,174 cf Discarded=0.00 cfs 209 cf Primary=0.89 cfs 3,816 cf Outflow=0.90 cfs 4,025 cf
Pond DE69: DRIP #69	Peak Elev=206.94' Storage=272 cf Inflow=0.84 cfs 3,000 cf Discarded=0.00 cfs 148 cf Primary=0.73 cfs 2,745 cf Outflow=0.73 cfs 2,893 cf
Pond DE7: DRIP #7	Peak Elev=212.59' Storage=244 cf Inflow=0.48 cfs 1,714 cf Discarded=0.00 cfs 91 cf Primary=0.45 cfs 1,443 cf Outflow=0.45 cfs 1,534 cf
Pond DE70: DRIP #70	Peak Elev=207.34' Storage=272 cf Inflow=0.84 cfs 3,000 cf Discarded=0.00 cfs 148 cf Primary=0.73 cfs 2,745 cf Outflow=0.73 cfs 2,893 cf
Pond DE71: DRIP #71	Peak Elev=208.23' Storage=464 cf Inflow=1.17 cfs 4,174 cf Discarded=0.00 cfs 209 cf Primary=0.92 cfs 3,812 cf Outflow=0.92 cfs 4,021 cf
Pond DE8: DRIP #8	Peak Elev=213.67' Storage=226 cf Inflow=0.46 cfs 1,643 cf Discarded=0.00 cfs 85 cf Primary=0.44 cfs 1,390 cf Outflow=0.44 cfs 1,475 cf
Pond DE9: DRIP #9	Peak Elev=214.05' Storage=279 cf Inflow=0.54 cfs 1,931 cf Discarded=0.00 cfs 101 cf Primary=0.49 cfs 1,628 cf Outflow=0.49 cfs 1,730 cf
Pond DECH: DRIP #CH	Peak Elev=210.92' Storage=746 cf Inflow=1.21 cfs 4,471 cf Discarded=0.04 cfs 2,092 cf Primary=1.07 cfs 2,379 cf Outflow=1.10 cfs 4,470 cf
Pond OCS1: OCS#1	Peak Elev=197.50' Inflow=13.58 cfs 48,472 cf Outflow=13.58 cfs 48,472 cf
Pond OCS3: OCS#3	Peak Elev=206.80' Inflow=9.78 cfs 35,845 cf Outflow=9.78 cfs 35,845 cf
Pond OCS4: OCS#4	Peak Elev=205.79' Inflow=2.85 cfs 10,224 cf Outflow=2.85 cfs 10,224 cf
Pond P204: STORMTECH INFILTRATION	Peak Elev=205.73' Storage=11,533 cf Inflow=12.61 cfs 46,068 cf Discarded=0.09 cfs 6,579 cf Primary=9.06 cfs 36,804 cf Outflow=9.15 cfs 43,383 cf
Pond P205: POCKET WETLAND #2	Peak Elev=202.40' Storage=47,934 cf Inflow=33.82 cfs 156,853 cf Outflow=28.49 cfs 129,658 cf
Pond P206: STORMTECH INFILTRATION	Peak Elev=196.76' Storage=8,983 cf Inflow=13.58 cfs 48,472 cf Discarded=0.49 cfs 28,117 cf Primary=10.86 cfs 20,349 cf Outflow=11.35 cfs 48,466 cf

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Pond P207: INFILTRATION POND #2 Peak Elev=199.07' Storage=26,002 cf Inflow=20.79 cfs 74,810 cf
Discarded=1.12 cfs 46,601 cf Primary=4.88 cfs 28,185 cf Outflow=6.00 cfs 74,786 cf

Pond P210: POCKET WETLAND #1 Peak Elev=205.30' Storage=27,524 cf Inflow=18.90 cfs 65,052 cf
Outflow=10.37 cfs 46,642 cf

Pond P212: INFILTRATION POND #1 Peak Elev=203.04' Storage=41,511 cf Inflow=40.18 cfs 172,695 cf
Discarded=2.22 cfs 91,544 cf Primary=30.84 cfs 79,833 cf Outflow=33.06 cfs 171,377 cf

Link AP1: ANALYSIS POINT 1 Inflow=2.23 cfs 7,690 cf
Primary=2.23 cfs 7,690 cf

Link AP2: ANALYSIS POINT 2 Inflow=58.35 cfs 417,853 cf
Primary=58.35 cfs 417,853 cf

Link AP3: ANALYSIS POINT 3 Inflow=7.09 cfs 22,504 cf
Primary=7.09 cfs 22,504 cf

Link AP4: ANALYSIS POINT #4 Inflow=106.14 cfs 648,428 cf
Primary=106.14 cfs 648,428 cf

Total Runoff Area = 2,573,920 sf Runoff Volume = 1,354,838 cf Average Runoff Depth = 6.32"
76.27% Pervious = 1,963,068 sf 23.73% Impervious = 610,852 sf

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Summary for Subcatchment B1: MULTIFAMILY BLDG #1

Runoff = 5.01 cfs @ 12.09 hrs, Volume= 18,436 cf, Depth> 8.81"
Routed to Pond D34 : DMH #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
21,440	98	Roofs, HSG C
3,659	98	Roofs, HSG D
25,099	98	Weighted Average
25,099		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment B2: MULTIFAMILY BLDG #2

Runoff = 3.51 cfs @ 12.09 hrs, Volume= 12,929 cf, Depth> 8.81"
Routed to Pond OCS3 : OCS#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
7,721	98	Roofs, HSG A
9,881	98	Roofs, HSG C
17,602	98	Weighted Average
17,602		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C1: CB #1

Runoff = 3.02 cfs @ 12.22 hrs, Volume= 12,727 cf, Depth> 5.74"
Routed to Pond CB1 : CB#1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
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Area (sf)	CN	Description
8,351	61	>75% Grass cover, Good, HSG B
6,375	98	Paved parking, HSG B
11,862	68	1 acre lots, 20% imp, HSG B
26,588	73	Weighted Average
17,841		67.10% Pervious Area
8,747		32.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
1.4	60	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.1	89	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.4	214	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
16.1	413	Total			

Summary for Subcatchment C10: CB #10

Runoff = 1.92 cfs @ 12.09 hrs, Volume= 6,999 cf, Depth> 8.69"
 Routed to Pond CB10 : CB #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
352	98	Paved parking, HSG B
517	74	>75% Grass cover, Good, HSG C
7,341	98	Paved parking, HSG C
1,450	98	Paved parking, HSG D
9,660	97	Weighted Average
517		5.35% Pervious Area
9,143		94.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C11: CB #11

Runoff = 2.55 cfs @ 12.09 hrs, Volume= 8,482 cf, Depth> 7.36"
 Routed to Pond CB11 : CB #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
6,773	74	>75% Grass cover, Good, HSG C
7,061	98	Paved parking, HSG C
13,834	86	Weighted Average
6,773		48.96% Pervious Area
7,061		51.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C12: CB #12

Runoff = 1.75 cfs @ 12.09 hrs, Volume= 5,785 cf, Depth> 7.23"
 Routed to Pond CB12 : CB #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
5,034	74	>75% Grass cover, Good, HSG C
4,562	98	Paved parking, HSG C
9,596	85	Weighted Average
5,034		52.46% Pervious Area
4,562		47.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C13: CB #13

Runoff = 1.64 cfs @ 12.09 hrs, Volume= 5,604 cf, Depth> 7.85"
 Routed to Pond CB13 : CB #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,771	74	>75% Grass cover, Good, HSG C
5,801	98	Paved parking, HSG C
8,572	90	Weighted Average
2,771		32.33% Pervious Area
5,801		67.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C14: CB #14

Runoff = 2.37 cfs @ 12.09 hrs, Volume= 7,829 cf, Depth> 7.23"
 Routed to Pond CB14 : CB #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,696	39	>75% Grass cover, Good, HSG A
8,015	98	Paved parking, HSG A
473	74	>75% Grass cover, Good, HSG C
1,802	98	Paved parking, HSG C
12,986	85	Weighted Average
3,169		24.40% Pervious Area
9,817		75.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C15: CB #15

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 3,596 cf, Depth> 8.81"
 Routed to Pond CB15 : CB #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
4,739	98	Paved parking, HSG A
156	98	Paved parking, HSG C
4,895	98	Weighted Average
4,895		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C16: CB #16

Runoff = 1.35 cfs @ 12.09 hrs, Volume= 4,365 cf, Depth> 6.50"
 Routed to Pond CB16 : CB #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
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Area (sf)	CN	Description
2,405	39	>75% Grass cover, Good, HSG A
4,302	98	Paved parking, HSG A
454	74	>75% Grass cover, Good, HSG C
902	98	Paved parking, HSG C
8,063	79	Weighted Average
2,859		35.46% Pervious Area
5,204		64.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C17: CB #17

Runoff = 2.32 cfs @ 12.09 hrs, Volume= 8,104 cf, Depth> 8.21"
 Routed to Pond CB17 : CB #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,620	74	>75% Grass cover, Good, HSG C
9,225	98	Paved parking, HSG C
11,845	93	Weighted Average
2,620		22.12% Pervious Area
9,225		77.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C18: CB #18

Runoff = 3.64 cfs @ 12.09 hrs, Volume= 12,433 cf, Depth> 7.85"
 Routed to Pond CB18 : CB #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
6,388	74	>75% Grass cover, Good, HSG C
12,388	98	Paved parking, HSG C
240	98	Roofs, HSG C
19,016	90	Weighted Average
6,388		33.59% Pervious Area
12,628		66.41% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C2: CB #2

Runoff = 3.66 cfs @ 12.09 hrs, Volume= 12,512 cf, Depth> 7.85"
 Routed to Pond CB2 : CB#2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,249	61	>75% Grass cover, Good, HSG B
7,607	98	Paved parking, HSG B
2,714	74	>75% Grass cover, Good, HSG C
6,568	98	Paved parking, HSG C
19,138	90	Weighted Average
4,963		25.93% Pervious Area
14,175		74.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C20: CB #20

Runoff = 2.29 cfs @ 12.09 hrs, Volume= 8,001 cf, Depth> 8.21"
 Routed to Pond CB20 : CB #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,366	98	Paved parking, HSG A
2,399	74	>75% Grass cover, Good, HSG C
7,929	98	Paved parking, HSG C
11,694	93	Weighted Average
2,399		20.51% Pervious Area
9,295		79.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C21: CB #21

Runoff = 1.78 cfs @ 12.09 hrs, Volume= 6,221 cf, Depth> 8.21"
 Routed to Pond CB21 : CB #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
769	39	>75% Grass cover, Good, HSG A
7,590	98	Paved parking, HSG A
734	98	Paved parking, HSG C
9,093	93	Weighted Average
769		8.46% Pervious Area
8,324		91.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C22: CB #22

Runoff = 1.81 cfs @ 12.09 hrs, Volume= 6,529 cf, Depth> 8.57"
 Routed to Pond CB22 : CB #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
280	74	>75% Grass cover, Good, HSG C
2,641	98	Paved parking, HSG C
810	80	>75% Grass cover, Good, HSG D
5,408	98	Paved parking, HSG D
9,139	96	Weighted Average
1,090		11.93% Pervious Area
8,049		88.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C23: CB #23

Runoff = 1.73 cfs @ 12.09 hrs, Volume= 5,882 cf, Depth> 7.72"
 Routed to Pond CB23 : CB #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
272	39	>75% Grass cover, Good, HSG A
2,987	98	Paved parking, HSG A
1,099	74	>75% Grass cover, Good, HSG C
55	98	Paved parking, HSG C
2,042	80	>75% Grass cover, Good, HSG D
2,684	98	Paved parking, HSG D
9,139	89	Weighted Average
3,413		37.35% Pervious Area
5,726		62.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C24: CB #24

Runoff = 0.39 cfs @ 12.09 hrs, Volume= 1,420 cf, Depth> 8.81"
Routed to Pond CB24 : CB #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,933	98	Paved parking, HSG D
1,933		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C25: CB #25

Runoff = 1.75 cfs @ 12.09 hrs, Volume= 6,383 cf, Depth> 8.69"
Routed to Pond CB25 : CB #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
15	74	>75% Grass cover, Good, HSG C
299	98	Paved parking, HSG C
335	80	>75% Grass cover, Good, HSG D
8,162	98	Paved parking, HSG D
8,811	97	Weighted Average
350		3.97% Pervious Area
8,461		96.03% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C26: CB #26

Runoff = 2.82 cfs @ 12.09 hrs, Volume= 9,796 cf, Depth> 8.09"
 Routed to Pond CB26 : CB #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
5,135	80	>75% Grass cover, Good, HSG D
9,397	98	Paved parking, HSG D
14,532	92	Weighted Average
5,135		35.34% Pervious Area
9,397		64.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C27: CB #27

Runoff = 1.96 cfs @ 12.09 hrs, Volume= 7,204 cf, Depth> 8.81"
 Routed to Pond CB27 : CB #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
763	98	Paved parking, HSG A
9,045	98	Paved parking, HSG D
9,808	98	Weighted Average
9,808		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C28: CB #28

Runoff = 1.95 cfs @ 12.09 hrs, Volume= 6,568 cf, Depth> 7.60"
 Routed to Pond CB28 : CB #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
2,749	74	>75% Grass cover, Good, HSG C
2,841	98	Paved parking, HSG C
2,296	80	>75% Grass cover, Good, HSG D
2,482	98	Paved parking, HSG D
10,368	88	Weighted Average
5,045		48.66% Pervious Area
5,323		51.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C29: CB #29

Runoff = 1.33 cfs @ 12.09 hrs, Volume= 4,651 cf, Depth> 8.21"
 Routed to Pond CB29 : CB #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,549	74	>75% Grass cover, Good, HSG C
5,249	98	Paved parking, HSG C
6,798	93	Weighted Average
1,549		22.79% Pervious Area
5,249		77.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C3: CB #3

Runoff = 3.28 cfs @ 12.09 hrs, Volume= 11,057 cf, Depth> 7.60"
 Routed to Pond CB3 : CB#3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
4,878	61	>75% Grass cover, Good, HSG B
12,576	98	Paved parking, HSG B
17,454	88	Weighted Average
4,878		27.95% Pervious Area
12,576		72.05% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C30: CB #30

Runoff = 2.30 cfs @ 12.09 hrs, Volume= 7,814 cf, Depth> 7.72"
 Routed to Pond CB30 : CB #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
4,380	74	>75% Grass cover, Good, HSG C
7,761	98	Paved parking, HSG C
12,141	89	Weighted Average
4,380		36.08% Pervious Area
7,761		63.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C31: CB #31

Runoff = 2.26 cfs @ 12.09 hrs, Volume= 7,792 cf, Depth> 7.97"
 Routed to Pond CB31 : CB #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,369	74	>75% Grass cover, Good, HSG C
8,367	98	Paved parking, HSG C
11,736	91	Weighted Average
3,369		28.71% Pervious Area
8,367		71.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C32: CB #32

Runoff = 2.05 cfs @ 12.09 hrs, Volume= 6,952 cf, Depth> 7.72"
 Routed to Pond CB32 : CB #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
4,013	74	>75% Grass cover, Good, HSG C
6,788	98	Paved parking, HSG C
10,801	89	Weighted Average
4,013		37.15% Pervious Area
6,788		62.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C33: CB #33

Runoff = 0.88 cfs @ 12.09 hrs, Volume= 3,088 cf, Depth> 8.21"
 Routed to Pond CB33 : CB #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
995	74	>75% Grass cover, Good, HSG C
3,519	98	Paved parking, HSG C
4,514	93	Weighted Average
995		22.04% Pervious Area
3,519		77.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C34: CB #34

Runoff = 1.36 cfs @ 12.09 hrs, Volume= 4,666 cf, Depth> 7.97"
 Routed to Pond CB34 : CB #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,924	74	>75% Grass cover, Good, HSG C
5,103	98	Paved parking, HSG C
7,027	91	Weighted Average
1,924		27.38% Pervious Area
5,103		72.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C35: CB #35

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 2,124 cf, Depth> 8.81"
 Routed to Pond CB35 : CB #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,891	98	Paved parking, HSG C
2,891		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C36: CB #36

Runoff = 1.32 cfs @ 12.09 hrs, Volume= 4,864 cf, Depth> 8.81"
 Routed to Pond CB36 : CB #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
6,622	98	Paved parking, HSG C
6,622		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C37: CB #37

Runoff = 0.25 cfs @ 12.09 hrs, Volume= 911 cf, Depth> 8.69"
 Routed to Pond CB37 : CB #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
687	98	Paved parking, HSG C
79	80	>75% Grass cover, Good, HSG D
492	98	Paved parking, HSG D
1,258	97	Weighted Average
79		6.28% Pervious Area
1,179		93.72% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C38: CB #38

Runoff = 3.82 cfs @ 12.09 hrs, Volume= 13,044 cf, Depth> 7.85"
 Routed to Pond CB38 : CB #38

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
4,460	61	>75% Grass cover, Good, HSG B
14,500	98	Paved parking, HSG B
38	74	>75% Grass cover, Good, HSG C
355	98	Paved parking, HSG C
81	80	>75% Grass cover, Good, HSG D
517	98	Paved parking, HSG D
19,951	90	Weighted Average
4,579		22.95% Pervious Area
15,372		77.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C39: CB #39

Runoff = 1.55 cfs @ 12.09 hrs, Volume= 5,710 cf, Depth> 8.81"
 Routed to Pond CB39 : CB #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
9	61	>75% Grass cover, Good, HSG B
6,543	98	Paved parking, HSG B
45	74	>75% Grass cover, Good, HSG C
517	98	Paved parking, HSG C
67	80	>75% Grass cover, Good, HSG D
592	98	Paved parking, HSG D
7,773	98	Weighted Average
121		1.56% Pervious Area
7,652		98.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment C4: CB #4

Runoff = 4.09 cfs @ 12.30 hrs, Volume= 19,297 cf, Depth> 5.24"
 Routed to Pond CB4 : CB#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
7,248	61	>75% Grass cover, Good, HSG B
3,633	98	Paved parking, HSG B
33,287	68	1 acre lots, 20% imp, HSG B
44,168	69	Weighted Average
33,878		76.70% Pervious Area
10,290		23.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
7.4	316	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.4	109	0.0360	1.33		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.4	70	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
21.4	545	Total			

Summary for Subcatchment C40: CB #40

Runoff = 0.91 cfs @ 12.09 hrs, Volume= 3,347 cf, Depth> 8.81"
 Routed to Pond CB40 : CB #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
4,556	98	Paved parking, HSG B
4,556		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C41: CB #41

Runoff = 2.37 cfs @ 12.09 hrs, Volume= 7,947 cf, Depth> 7.48"
 Routed to Pond CB41 : CB #41

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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,917	61	>75% Grass cover, Good, HSG B
8,833	98	Paved parking, HSG B
12,750	87	Weighted Average
3,917		30.72% Pervious Area
8,833		69.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C42: CB #42

Runoff = 1.77 cfs @ 12.09 hrs, Volume= 5,641 cf, Depth> 6.00"
 Routed to Pond CB42 : CB #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
7,160	61	>75% Grass cover, Good, HSG B
4,117	98	Paved parking, HSG B
11,277	75	Weighted Average
7,160		63.49% Pervious Area
4,117		36.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C43: CB #43

Runoff = 0.79 cfs @ 12.09 hrs, Volume= 2,712 cf, Depth> 7.97"
 Routed to Pond CB43 : CB #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
751	61	>75% Grass cover, Good, HSG B
3,333	98	Paved parking, HSG B
4,084	91	Weighted Average
751		18.39% Pervious Area
3,333		81.61% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C44: CB #44

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 1,221 cf, Depth> 8.81"
 Routed to Pond CB44 : CB #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,662	98	Paved parking, HSG B
1,662		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C45: CB #45

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,549 cf, Depth> 8.81"
 Routed to Pond CB45 : CB #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,109	98	Paved parking, HSG B
2,109		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C46: CB #46

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 1,007 cf, Depth> 8.81"
 Routed to Pond CB46 : CB #46

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,371	98	Paved parking, HSG B
1,371		100.00% Impervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C47: CB#47

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 2,248 cf, Depth> 8.81"
 Routed to Pond CB47 : CB#47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,060	98	Paved parking, HSG B
3,060		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C48: CB#48

Runoff = 7.16 cfs @ 12.16 hrs, Volume= 26,960 cf, Depth> 5.38"
 Routed to Pond CB48 : CB#48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
4,469	98	Paved parking, HSG B
55,697	68	1 acre lots, 20% imp, HSG B
60,166	70	Weighted Average
44,558		74.06% Pervious Area
15,608		25.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	50	0.0800	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
4.8	350	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.8	400	Total			

Summary for Subcatchment C49: CB#49

Runoff = 0.85 cfs @ 12.09 hrs, Volume= 2,705 cf, Depth> 5.51"
 Routed to Pond CB49 : CB#49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
4,236	61	>75% Grass cover, Good, HSG B
1,659	98	Paved parking, HSG B
5,895	71	Weighted Average
4,236		71.86% Pervious Area
1,659		28.14% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C5: CB #5

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 1,069 cf, Depth> 8.81"
 Routed to Pond CB5 : CB#5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,337	98	Paved parking, HSG B
119	98	Paved parking, HSG D
1,456	98	Weighted Average
1,456		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C50: CB#50

Runoff = 0.77 cfs @ 12.09 hrs, Volume= 2,428 cf, Depth> 5.63"
 Routed to Pond CB50 : CB#50

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,639	61	>75% Grass cover, Good, HSG B
813	55	Woods, Good, HSG B
1,723	98	Paved parking, HSG B
5,175	72	Weighted Average
3,452		66.71% Pervious Area
1,723		33.29% Impervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C51: CB #51

Runoff = 1.90 cfs @ 12.09 hrs, Volume= 6,592 cf, Depth> 8.09"
 Routed to Pond CB51 : CB #51

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,525	61	>75% Grass cover, Good, HSG B
8,254	98	Paved parking, HSG B
9,779	92	Weighted Average
1,525		15.59% Pervious Area
8,254		84.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C6: CB #6

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 1,338 cf, Depth> 8.81"
 Routed to Pond CB6 : CB#6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,821	98	Paved parking, HSG B
1,821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C7: CB #7

Runoff = 2.16 cfs @ 12.09 hrs, Volume= 6,975 cf, Depth> 6.50"
 Routed to Pond CB7 : CB#7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
6,625	61	>75% Grass cover, Good, HSG B
6,258	98	Paved parking, HSG B
12,883	79	Weighted Average
6,625		51.42% Pervious Area
6,258		48.58% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment C8: CB #8

Runoff = 4.47 cfs @ 12.25 hrs, Volume= 19,734 cf, Depth> 5.37"
 Routed to Pond CB8 : CB#8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
8,724	61	>75% Grass cover, Good, HSG B
4,940	98	Paved parking, HSG B
30,434	68	1 acre lots, 20% imp, HSG B
44,098	70	Weighted Average
33,071		74.99% Pervious Area
11,027		25.01% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	50	0.0200	0.07		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
5.1	304	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	91	0.0430	3.34		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.4	75	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
18.2	520	Total			

Summary for Subcatchment C9: CB #9

Runoff = 2.87 cfs @ 12.09 hrs, Volume= 10,044 cf, Depth> 8.21"
 Routed to Pond CB9 : CB #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
54	98	Paved parking, HSG B
3,264	74	>75% Grass cover, Good, HSG C
10,424	98	Paved parking, HSG C
939	98	Paved parking, HSG D
14,681	93	Weighted Average
3,264		22.23% Pervious Area
11,417		77.77% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment CH1: CLUBHOUSE

Runoff = 1.21 cfs @ 12.09 hrs, Volume= 4,471 cf, Depth> 8.81"
 Routed to Pond DECH : DRIP #CH

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
6,087	98	Roofs, HSG C
6,087		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H1: SF #1

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf, Depth> 8.33"
 Routed to Pond DE1 : DRIP #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Subcatchment H10: SF #10

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf, Depth> 8.45"
 Routed to Pond DE10 : DRIP #10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H11: SF #11

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf, Depth> 8.45"
 Routed to Pond DE11 : DRIP #11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H12: SF #12

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,255 cf, Depth> 8.45"
 Routed to Pond DE12 : DRIP #12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H13: SF #13

Runoff = 0.81 cfs @ 12.09 hrs, Volume= 2,928 cf, Depth> 8.57"
 Routed to Pond DE13 : DRIP #13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,715	98	Roofs, HSG C
383	74	>75% Grass cover, Good, HSG C
4,098	96	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H14: SF #14

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf, Depth> 8.45"
 Routed to Pond DE14 : DRIP #14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H15: SF #15

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,334 cf, Depth> 8.33"
 Routed to Pond DE15 : DRIP #15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H16: SF #16

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf, Depth> 8.45"
 Routed to Pond DE16 : DRIP #16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H17: SF #17

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,282 cf, Depth> 7.85"
 Routed to Pond DE17 : DRIP #17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG A
267	39	>75% Grass cover, Good, HSG A
1,961	90	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H18: SF #18

Runoff = 0.53 cfs @ 12.09 hrs, Volume= 1,820 cf, Depth> 7.97"
 Routed to Pond DE18 : DRIP #18

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG A
323	39	>75% Grass cover, Good, HSG A
2,741	91	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H19: SF #19

Runoff = 0.47 cfs @ 12.09 hrs, Volume= 1,616 cf, Depth> 7.97"
 Routed to Pond DE19 : DRIP #19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,144	98	Roofs, HSG A
290	39	>75% Grass cover, Good, HSG A
2,434	91	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Subcatchment H2: SF #2

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,295 cf, Depth> 8.09"
 Routed to Pond DE2 : DRIP #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H20: SF #20

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,256 cf, Depth> 7.85"
 Routed to Pond DE20 : DRIP #20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,085	98	Roofs, HSG A
214	39	>75% Grass cover, Good, HSG A
546	98	Roofs, HSG C
76	74	>75% Grass cover, Good, HSG C
1,921	90	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H21: SF #21

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,302 cf, Depth> 7.97"
 Routed to Pond DE21 : DRIP #21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
793	98	Roofs, HSG A
190	39	>75% Grass cover, Good, HSG A
900	98	Roofs, HSG C
78	74	>75% Grass cover, Good, HSG C
1,961	91	Weighted Average
268		13.67% Pervious Area
1,693		86.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H22: SF #22

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,255 cf, Depth> 8.45"
 Routed to Pond DE22 : DRIP #22

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,829	98	Roofs, HSG C
373	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H23: SF #23

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf, Depth> 8.45"
 Routed to Pond DE23 : DRIP #23

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H24: SF #24

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf, Depth> 8.45"
 Routed to Pond DE24 : DRIP #24

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H25: SF #25

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf, Depth> 8.45"
 Routed to Pond DE25 : DRIP #25

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H26: SF #26

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf, Depth> 8.45"
 Routed to Pond DE26 : DRIP #26

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H27: SF #27

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf, Depth> 8.45"
 Routed to Pond DE27 : DRIP #27

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H28: SF #28

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf, Depth> 8.45"
 Routed to Pond DE28 : DRIP #28

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H29: SF #29

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf, Depth> 8.45"
 Routed to Pond DE29 : DRIP #29

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H3: SF #3

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf, Depth> 8.33"
 Routed to Pond DE3 : DRIP #3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H30: SF #30

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf, Depth> 8.45"
 Routed to Pond DE30 : DRIP #30

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H31: SF #31

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf, Depth> 8.45"
 Routed to Pond DE31 : DRIP #31

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H32: SF #32

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf, Depth> 8.45"
 Routed to Pond DE32 : DRIP #32

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Subcatchment H33: SF #33

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,334 cf, Depth> 8.33"
 Routed to Pond DE33 : DRIP #33

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,631	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
1,921	94	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H34: SF #34

Runoff = 0.81 cfs @ 12.09 hrs, Volume= 2,886 cf, Depth> 8.45"
 Routed to Pond DE34 : DRIP #34

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H35: SF #35

Runoff = 0.81 cfs @ 12.09 hrs, Volume= 2,886 cf, Depth> 8.45"
 Routed to Pond DE35 : DRIP #35

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
3,715	98	Roofs, HSG B
383	61	>75% Grass cover, Good, HSG B
4,098	95	Weighted Average
383		9.35% Pervious Area
3,715		90.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H36: SF #36

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,255 cf, Depth> 8.45"
 Routed to Pond DE36 : DRIP #36

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
352	98	Roofs, HSG B
135	61	>75% Grass cover, Good, HSG B
2,477	98	Roofs, HSG C
238	74	>75% Grass cover, Good, HSG C
3,202	95	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H37: SF #37

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,223 cf, Depth> 8.33"
 Routed to Pond DE37 : DRIP #37

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H38: SF #38

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf, Depth> 8.33"
 Routed to Pond DE38 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H39: SF #39

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf, Depth> 8.33"
 Routed to Pond DE39 : DRIP #39

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H4: SF #4

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf, Depth> 8.33"
 Routed to Pond DE4 : DRIP #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H40: SF #40

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf, Depth> 8.33"
 Routed to Pond DE40 : DRIP #40

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H41: SF #41

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf, Depth> 8.33"
 Routed to Pond DE41 : DRIP #41

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG B
323	61	>75% Grass cover, Good, HSG B
2,741	94	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Subcatchment H42: SF #42

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf, Depth> 8.21"
 Routed to Pond DE42 : DRIP #42

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H43: SF #43

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf, Depth> 8.21"
 Routed to Pond DE43 : DRIP #43

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H44: SF #44

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf, Depth> 8.21"
 Routed to Pond DE44 : DRIP #44

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H45: SF #45

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf, Depth> 8.33"
 Routed to Pond DE45 : DRIP #45

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H46: SF #46

Runoff = 0.63 cfs @ 12.09 hrs, Volume= 2,223 cf, Depth> 8.33"
 Routed to Pond DE47 : DRIP #47

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,829	98	Roofs, HSG B
373	61	>75% Grass cover, Good, HSG B
3,202	94	Weighted Average
373		11.65% Pervious Area
2,829		88.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Subcatchment H47: SF #47

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,295 cf, Depth> 8.09"
 Routed to Pond DE48 : DRIP #48

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,631	98	Roofs, HSG B
290	61	>75% Grass cover, Good, HSG B
1,921	92	Weighted Average
290		15.10% Pervious Area
1,631		84.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H48: SF #48

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf, Depth> 8.21"
 Routed to Pond DE49 : DRIP #49

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,694	98	Roofs, HSG B
267	61	>75% Grass cover, Good, HSG B
1,961	93	Weighted Average
267		13.62% Pervious Area
1,694		86.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H5: SF #5

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf, Depth> 8.33"
 Routed to Pond DE5 : DRIP #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
2,062	98	Roofs, HSG B
271	61	>75% Grass cover, Good, HSG B
2,333	94	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H7: SF #7

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf, Depth> 8.45"
 Routed to Pond DE7 : DRIP #7

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,144	98	Roofs, HSG C
290	74	>75% Grass cover, Good, HSG C
2,434	95	Weighted Average
290		11.91% Pervious Area
2,144		88.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment H8: SF #8

Runoff = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf, Depth> 8.45"
 Routed to Pond DE8 : DRIP #8

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,062	98	Roofs, HSG C
271	74	>75% Grass cover, Good, HSG C
2,333	95	Weighted Average
271		11.62% Pervious Area
2,062		88.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment H9: SF #9

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf, Depth> 8.45"
 Routed to Pond DE9 : DRIP #9

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,418	98	Roofs, HSG C
323	74	>75% Grass cover, Good, HSG C
2,741	95	Weighted Average
323		11.78% Pervious Area
2,418		88.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S201: SUMMER STREET ACCESS APRON

Runoff = 2.23 cfs @ 12.09 hrs, Volume= 7,690 cf, Depth> 7.97"
 Routed to Link AP1 : ANALYSIS POINT 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,253	61	>75% Grass cover, Good, HSG B
9,329	98	Paved parking, HSG B
11,582	91	Weighted Average
2,253		19.45% Pervious Area
9,329		80.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S202: EXISTING WETLAND

Runoff = 44.48 cfs @ 12.29 hrs, Volume= 212,846 cf, Depth> 6.36"
 Routed to Reach SC1 : Stream Crossing #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
153,785	61	>75% Grass cover, Good, HSG B
44,442	55	Woods, Good, HSG B
13,947	98	Paved parking, HSG B
5,507	74	>75% Grass cover, Good, HSG C
16,089	70	Woods, Good, HSG C
127	98	Water Surface, 0% imp, HSG C
651	80	>75% Grass cover, Good, HSG D
167,325	98	Water Surface, 0% imp, HSG D
401,873	78	Weighted Average
387,926		96.53% Pervious Area
13,947		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	50	0.0600	0.16		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
1.9	192	0.0600	1.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.8	314	0.0700	1.85		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
11.6	493	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
21.5	1,049	Total			

Summary for Subcatchment S203: POCKET WETLAND #1

Runoff = 3.94 cfs @ 12.09 hrs, Volume= 12,529 cf, Depth> 5.88"
 Routed to Pond p210 : POCKET WETLAND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
11,579	61	>75% Grass cover, Good, HSG B
1,816	98	Water Surface, 0% imp, HSG B
331	98	Paved parking, HSG B
8,210	74	>75% Grass cover, Good, HSG C
3,638	98	Water Surface, 0% imp, HSG C
25,574	74	Weighted Average
25,243		98.71% Pervious Area
331		1.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment S204: EXISTING WETLANDS

Runoff = 29.72 cfs @ 12.31 hrs, Volume= 145,491 cf, Depth> 6.48"
 Routed to Link ap2 : ANALYSIS POINT 2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
44,109	61	>75% Grass cover, Good, HSG B
8,675	55	Woods, Good, HSG B
280	98	Paved parking, HSG B
48,392	74	>75% Grass cover, Good, HSG C
65,808	70	Woods, Good, HSG C
4,065	80	>75% Grass cover, Good, HSG D
2,743	77	Woods, Good, HSG D
95,456	98	Water Surface, 0% imp, HSG D
269,528	79	Weighted Average
269,248		99.90% Pervious Area
280		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	50	0.2000	0.26		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
19.4	582	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.6	632	Total			

Summary for Subcatchment S205: ISOLATED WETLAND

Runoff = 7.09 cfs @ 12.09 hrs, Volume= 22,504 cf, Depth> 5.76"
 Routed to Link AP3 : ANALYSIS POINT 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
5,242	39	>75% Grass cover, Good, HSG A
3,607	30	Woods, Good, HSG A
2,667	74	>75% Grass cover, Good, HSG C
1,829	70	Woods, Good, HSG C
6,506	80	>75% Grass cover, Good, HSG D
18,453	77	Woods, Good, HSG D
8,620	98	Water Surface, 0% imp, HSG D
46,924	73	Weighted Average
46,924		100.00% Pervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S206: OVERLAND FLOW

Runoff = 51.43 cfs @ 12.34 hrs, Volume= 256,084 cf, Depth> 4.74"
 Routed to Link AP4 : ANALYSIS POINT #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
57,993	39	>75% Grass cover, Good, HSG A
105,804	30	Woods, Good, HSG A
31,970	30	Brush, Good, HSG A
15,917	61	>75% Grass cover, Good, HSG B
8,415	55	Woods, Good, HSG B
89,799	74	>75% Grass cover, Good, HSG C
91,893	70	Woods, Good, HSG C
10,481	80	>75% Grass cover, Good, HSG D
121,472	77	Woods, Good, HSG D
114,002	98	Water Surface, 0% imp, HSG D
647,746	65	Weighted Average
647,746		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	50	0.0400	0.09		Sheet Flow,
					Woods: Light underbrush n= 0.400 P2= 3.27"
15.1	745	0.0270	0.82		Shallow Concentrated Flow,
					Woodland Kv= 5.0 fps
24.3	795	Total			

Summary for Subcatchment S207: INFILTRATION POND #2

Runoff = 3.84 cfs @ 12.09 hrs, Volume= 12,696 cf, Depth> 7.23"
 Routed to Pond P207 : INFILTRATION POND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
586	39	>75% Grass cover, Good, HSG A
252	98	Water Surface, 0% imp, HSG A
10,402	74	>75% Grass cover, Good, HSG C
9,818	98	Water Surface, 0% imp, HSG C
21,058	85	Weighted Average
21,058		100.00% Pervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S208: GRASS AREA

Runoff = 2.02 cfs @ 12.09 hrs, Volume= 6,408 cf, Depth> 5.63"
 Routed to Pond OCS4 : OCS#4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
605	39	>75% Grass cover, Good, HSG A
13,051	74	>75% Grass cover, Good, HSG C
13,656	72	Weighted Average
13,656		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment S209: WETLAND C

Runoff = 9.90 cfs @ 12.37 hrs, Volume= 51,905 cf, Depth> 5.73"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
17,105	39	>75% Grass cover, Good, HSG A
10,847	30	Woods, Good, HSG A
15,520	74	>75% Grass cover, Good, HSG C
21,139	70	Woods, Good, HSG C
44,067	98	Water Surface, 0% imp, HSG D
108,678	73	Weighted Average
108,678		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	50	0.0150	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.27"
13.6	500	0.0150	0.61		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
27.3	550	Total			

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Subcatchment S210: INFILTRATION POND #1

Runoff = 15.44 cfs @ 12.22 hrs, Volume= 67,847 cf, Depth> 7.10"
 Routed to Pond P212 : INFILTRATION POND #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
2,476	39	>75% Grass cover, Good, HSG A
1,222	98	Paved parking, HSG A
58,519	74	>75% Grass cover, Good, HSG C
25,420	98	Paved parking, HSG C
27,041	98	Water Surface, 0% imp, HSG C
114,678	84	Weighted Average
88,036		76.77% Pervious Area
26,642		23.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	50	0.0150	0.13		Sheet Flow, Grass: Short n= 0.150 P2= 3.27"
10.3	530	0.0150	0.86		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
16.5	580	Total			

Summary for Subcatchment S211: POCKET WETLAND #2

Runoff = 4.79 cfs @ 12.30 hrs, Volume= 23,047 cf, Depth> 6.11"
 Routed to Pond P205 : POCKET WETLAND #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
6,834	61	>75% Grass cover, Good, HSG B
13,286	55	Woods, Good, HSG B
7,418	74	>75% Grass cover, Good, HSG C
255	70	Woods, Good, HSG C
17,484	98	Water Surface, 0% imp, HSG C
45,277	76	Weighted Average
45,277		100.00% Pervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	50	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 3.27"
0.8	50	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.1	428	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.0	528	Total			

Summary for Subcatchment S212: SWALE

Runoff = 3.58 cfs @ 12.26 hrs, Volume= 16,179 cf, Depth> 6.24"
 Routed to Reach SC2 : Stream Crossing #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
7,747	61	>75% Grass cover, Good, HSG B
5,761	55	Woods, Good, HSG B
2,263	74	>75% Grass cover, Good, HSG C
2,141	70	Woods, Good, HSG C
661	80	>75% Grass cover, Good, HSG D
12,563	98	Water Surface, 0% imp, HSG D
31,136	77	Weighted Average
31,136		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	50	0.0050	0.06		Sheet Flow, Grass: Dense n= 0.240 P2= 3.27"
4.7	100	0.0050	0.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
18.8	150	Total			

Summary for Subcatchment S213: COURTYARD

Runoff = 3.68 cfs @ 12.09 hrs, Volume= 11,953 cf, Depth> 6.74"
 Routed to Pond 11P : YARD DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
3,938	39	>75% Grass cover, Good, HSG A
1,339	98	Paved parking, HSG A
215	98	Roofs, HSG A
2,201	98	Water Surface, 0% imp, HSG A
4,975	74	>75% Grass cover, Good, HSG C
6,390	98	Paved parking, HSG C
637	98	Roofs, HSG C
718	98	Water Surface, 0% imp, HSG C
764	80	>75% Grass cover, Good, HSG D
94	98	Paved parking, HSG D
21,271	81	Weighted Average
12,596		59.22% Pervious Area
8,675		40.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T1: Trench Drain 1

Runoff = 1.85 cfs @ 12.09 hrs, Volume= 6,468 cf, Depth> 8.21"
 Routed to Pond 5R : TRENCH DRAIN

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
1,281	74	>75% Grass cover, Good, HSG C
4,088	98	Paved parking, HSG C
662	80	>75% Grass cover, Good, HSG D
3,423	98	Paved parking, HSG D
9,454	93	Weighted Average
1,943		20.55% Pervious Area
7,511		79.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment T2: Drive Under B2

Runoff = 0.97 cfs @ 12.09 hrs, Volume= 3,138 cf, Depth> 6.74"
 Routed to Reach 11R : 4x4 Open Bottom Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
1,582	39	>75% Grass cover, Good, HSG A
2,313	98	Paved parking, HSG A
77	74	>75% Grass cover, Good, HSG C
1,613	98	Paved parking, HSG C
5,585	81	Weighted Average
1,659		29.70% Pervious Area
3,926		70.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH1: TOWN HOUSE #1

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 4,114 cf, Depth> 8.33"
 Routed to Pond DE61 : DRIP #61

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH10: TOWN HOUSE #10

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf, Depth> 8.45"
 Routed to Pond DE70 : DRIP #70

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

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Type III 24-hr 100YR Rainfall=9.06"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH11: TOWN HOUSE #11

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 4,174 cf, Depth> 8.45"
 Routed to Pond DE71 : DRIP #71

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH2: TOWN HOUSE #2

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 4,114 cf, Depth> 8.33"
 Routed to Pond DE62 : DRIP #62

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
5,261	98	Roofs, HSG B
665	61	>75% Grass cover, Good, HSG B
5,926	94	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH3: TOWN HOUSE #3

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 2,410 cf, Depth> 8.45"
 Routed to Pond DE63 : DRIP #63

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH4: TOWN HOUSE #4

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf, Depth> 8.45"
 Routed to Pond DE64 : DRIP #64

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH5: TOWN HOUSE #5

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 2,410 cf, Depth> 8.45"
 Routed to Pond DE65 : DRIP #65

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,018	98	Roofs, HSG C
404	74	>75% Grass cover, Good, HSG C
3,422	95	Weighted Average
404		11.81% Pervious Area
3,018		88.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Summary for Subcatchment TH6: TOWN HOUSE #6

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf, Depth> 8.45"
 Routed to Pond DE66 : DRIP #66

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH7: TOWN HOUSE #7

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf, Depth> 8.45"
 Routed to Pond DE67 : DRIP #67

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH8: TOWN HOUSE #8

Runoff = 1.17 cfs @ 12.09 hrs, Volume= 4,174 cf, Depth> 8.45"
 Routed to Pond DE68 : DRIP #68

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

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Type III 24-hr 100YR Rainfall=9.06"

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Area (sf)	CN	Description
5,261	98	Roofs, HSG C
665	74	>75% Grass cover, Good, HSG C
5,926	95	Weighted Average
665		11.22% Pervious Area
5,261		88.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment TH9: TOWN HOUSE #9

Runoff = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf, Depth> 8.45"
 Routed to Pond DE69 : DRIP #69

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100YR Rainfall=9.06"

Area (sf)	CN	Description
3,789	98	Roofs, HSG C
470	74	>75% Grass cover, Good, HSG C
4,259	95	Weighted Average
470		11.04% Pervious Area
3,789		88.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Reach 1R: OVERLAND FLOW

Inflow Area = 12,069 sf, 87.75% Impervious, Inflow Depth > 6.96" for 100YR event
 Inflow = 2.20 cfs @ 12.12 hrs, Volume= 7,003 cf
 Outflow = 0.21 cfs @ 13.03 hrs, Volume= 5,218 cf, Atten= 91%, Lag= 54.6 min
 Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Max. Velocity= 0.07 fps, Min. Travel Time= 337.7 min
 Avg. Velocity = 0.05 fps, Avg. Travel Time= 471.6 min

Peak Storage= 4,173 cf @ 13.03 hrs
 Average Depth at Peak Storage= 0.06' , Surface Width= 50.61'
 Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 22.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
 Side Slope Z-value= 5.0 ' ' Top Width= 60.00'
 Length= 1,350.0' Slope= 0.0133 ' '
 Inlet Invert= 218.00', Outlet Invert= 200.00'

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Type III 24-hr 100YR Rainfall=9.06"

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Summary for Reach 3R: OVERLAND FLOW

Inflow Area = 7,508 sf, 88.23% Impervious, Inflow Depth > 7.13" for 100YR event
Inflow = 1.38 cfs @ 12.12 hrs, Volume= 4,461 cf
Outflow = 0.42 cfs @ 12.45 hrs, Volume= 4,200 cf, Atten= 69%, Lag= 20.2 min
Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.10 fps, Min. Travel Time= 75.7 min
Avg. Velocity = 0.05 fps, Avg. Travel Time= 165.0 min

Peak Storage= 1,924 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.10' , Surface Width= 41.00'
Bank-Full Depth= 1.00' Flow Area= 45.0 sf, Capacity= 20.48 cfs

40.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 50.00'
Length= 475.0' Slope= 0.0174 ' / '
Inlet Invert= 211.50', Outlet Invert= 203.25'



Summary for Reach 4R: OVERLAND FLOW

Inflow Area = 12,683 sf, 88.20% Impervious, Inflow Depth > 7.18" for 100YR event
Inflow = 2.32 cfs @ 12.12 hrs, Volume= 7,584 cf
Outflow = 0.76 cfs @ 12.43 hrs, Volume= 7,182 cf, Atten= 67%, Lag= 18.9 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.13 fps, Min. Travel Time= 68.7 min
Avg. Velocity = 0.05 fps, Avg. Travel Time= 167.6 min

Peak Storage= 3,150 cf @ 12.43 hrs
Average Depth at Peak Storage= 0.12' , Surface Width= 52.30'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 30.09 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 535.0' Slope= 0.0224 '/'

Inlet Invert= 202.00', Outlet Invert= 190.00'



Summary for Reach 7R: OVERLAND FLOW

Inflow Area = 8,196 sf, 90.65% Impervious, Inflow Depth > 7.40" for 100YR event

Inflow = 1.44 cfs @ 12.13 hrs, Volume= 5,051 cf

Outflow = 0.33 cfs @ 12.55 hrs, Volume= 4,565 cf, Atten= 77%, Lag= 25.4 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.10 fps, Min. Travel Time= 125.5 min

Avg. Velocity= 0.05 fps, Avg. Travel Time= 236.7 min

Peak Storage= 2,499 cf @ 12.55 hrs

Average Depth at Peak Storage= 0.07' , Surface Width= 50.68'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 30.21 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 730.0' Slope= 0.0247 '/'

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 8R: OVERLAND FLOW

Inflow Area = 7,815 sf, 88.27% Impervious, Inflow Depth > 7.32" for 100YR event

Inflow = 1.42 cfs @ 12.12 hrs, Volume= 4,770 cf

Outflow = 0.29 cfs @ 12.57 hrs, Volume= 4,268 cf, Atten= 80%, Lag= 26.9 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.09 fps, Min. Travel Time= 139.0 min

Avg. Velocity= 0.05 fps, Avg. Travel Time= 257.9 min

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Peak Storage= 2,427 cf @ 12.57 hrs

Average Depth at Peak Storage= 0.06' , Surface Width= 51.27'

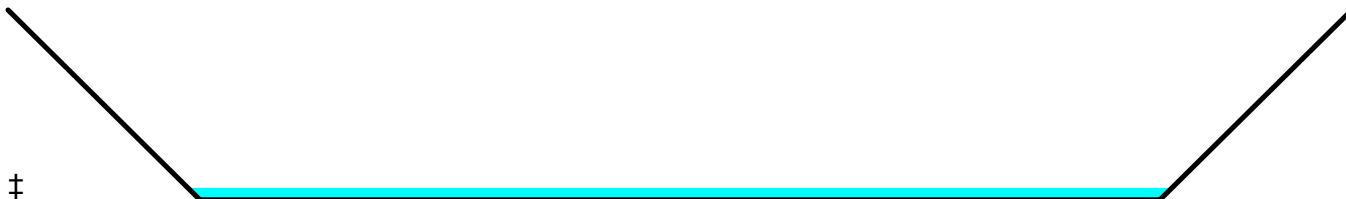
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.01 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 '/' Top Width= 70.00'

Length= 756.0' Slope= 0.0238 '/'

Inlet Invert= 204.00', Outlet Invert= 186.00'



Summary for Reach 9R: OVERLAND FLOW

Inflow Area = 16,553 sf, 87.42% Impervious, Inflow Depth > 6.71" for 100YR event

Inflow = 2.99 cfs @ 12.12 hrs, Volume= 9,256 cf

Outflow = 1.74 cfs @ 12.26 hrs, Volume= 9,066 cf, Atten= 42%, Lag= 8.7 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.27 fps, Min. Travel Time= 23.4 min

Avg. Velocity= 0.09 fps, Avg. Travel Time= 69.8 min

Peak Storage= 2,442 cf @ 12.26 hrs

Average Depth at Peak Storage= 0.25' , Surface Width= 27.45'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 19.23 cfs

25.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 35.00'

Length= 380.0' Slope= 0.0368 '/'

Inlet Invert= 200.00', Outlet Invert= 186.00'



Summary for Reach 10R: OVERLAND FLOW

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth = 2.86" for 100YR event

Inflow = 4.88 cfs @ 12.47 hrs, Volume= 28,185 cf

Outflow = 4.34 cfs @ 12.54 hrs, Volume= 28,184 cf, Atten= 11%, Lag= 4.7 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.38 fps, Min. Travel Time= 7.2 min

Avg. Velocity= 0.12 fps, Avg. Travel Time= 22.4 min

Peak Storage= 1,877 cf @ 12.54 hrs

Average Depth at Peak Storage= 0.46' , Surface Width= 29.29'

Bank-Full Depth= 1.00' Flow Area= 30.0 sf, Capacity= 17.57 cfs

20.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 ' / ' Top Width= 40.00'

Length= 164.0' Slope= 0.0366 ' / '

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 11R: 4x4 Open Bottom Culvert

[52] Hint: Inlet/Outlet conditions not evaluated

[62] Hint: Exceeded Reach 20R OUTLET depth by 1.18' @ 12.50 hrs

[62] Hint: Exceeded Reach R211 OUTLET depth by 0.63' @ 12.45 hrs

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 4.39" for 100YR event

Inflow = 26.52 cfs @ 12.48 hrs, Volume= 170,012 cf

Outflow = 26.52 cfs @ 12.48 hrs, Volume= 169,998 cf, Atten= 0%, Lag= 0.2 min

Routed to Reach 23R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 2.79 fps, Min. Travel Time= 0.2 min

Avg. Velocity= 0.98 fps, Avg. Travel Time= 0.5 min

Peak Storage= 285 cf @ 12.48 hrs

Average Depth at Peak Storage= 2.38' , Surface Width= 4.00'

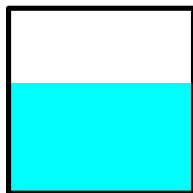
Bank-Full Depth= 4.00' Flow Area= 16.0 sf, Capacity= 42.20 cfs

48.0" W x 48.0" H Box Pipe

n= 0.069 Riprap, 6-inch

Length= 30.0' Slope= 0.0150 ' / '

Inlet Invert= 194.00', Outlet Invert= 193.55'



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Summary for Reach 12R: OVERLAND FLOW

Inflow Area = 19,621 sf, 88.70% Impervious, Inflow Depth > 7.72" for 100YR event
Inflow = 3.38 cfs @ 12.13 hrs, Volume= 12,622 cf
Outflow = 2.22 cfs @ 12.27 hrs, Volume= 12,413 cf, Atten= 34%, Lag= 8.3 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.20 fps, Min. Travel Time= 20.6 min
Avg. Velocity = 0.07 fps, Avg. Travel Time= 63.6 min

Peak Storage= 2,733 cf @ 12.27 hrs
Average Depth at Peak Storage= 0.21' , Surface Width= 52.14'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 29.80 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'
Length= 250.0' Slope= 0.0240 ' / '
Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 13R: OVERLAND FLOW

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 7.60" for 100YR event
Inflow = 0.92 cfs @ 12.15 hrs, Volume= 3,755 cf
Outflow = 0.20 cfs @ 12.63 hrs, Volume= 3,304 cf, Atten= 78%, Lag= 28.5 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.07 fps, Min. Travel Time= 160.5 min
Avg. Velocity = 0.04 fps, Avg. Travel Time= 292.2 min

Peak Storage= 1,954 cf @ 12.63 hrs
Average Depth at Peak Storage= 0.06' , Surface Width= 51.17'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 24.73 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 660.0' Slope= 0.0152 ' / '
Inlet Invert= 206.00', Outlet Invert= 196.00'

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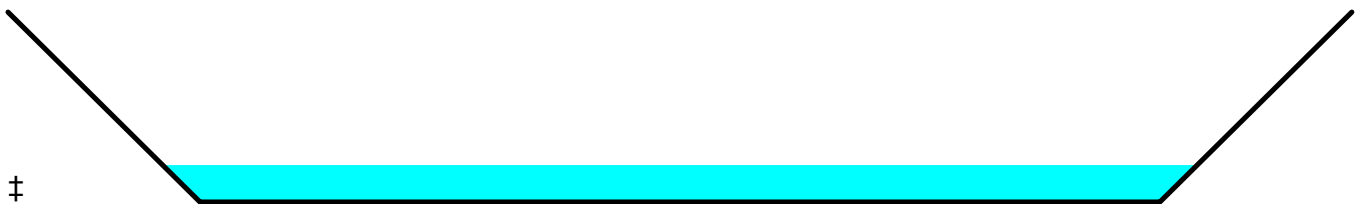
Summary for Reach 14R: OVERLAND FLOW

Inflow Area = 42,474 sf, 23.18% Impervious, Inflow Depth > 6.40" for 100YR event
Inflow = 4.71 cfs @ 12.22 hrs, Volume= 22,641 cf
Outflow = 1.94 cfs @ 12.64 hrs, Volume= 21,245 cf, Atten= 59%, Lag= 25.7 min
Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.19 fps, Min. Travel Time= 74.2 min
Avg. Velocity = 0.08 fps, Avg. Travel Time= 180.2 min

Peak Storage= 8,622 cf @ 12.64 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 53.90'
Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 31.55 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'
Length= 852.0' Slope= 0.0246 ' / '
Inlet Invert= 207.00', Outlet Invert= 186.00'



Summary for Reach 15R: OVERLAND FLOW

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 5.24" for 100YR event
Inflow = 10.37 cfs @ 12.23 hrs, Volume= 46,642 cf
Outflow = 7.28 cfs @ 12.44 hrs, Volume= 45,746 cf, Atten= 30%, Lag= 12.8 min
Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.30 fps, Min. Travel Time= 16.5 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 47.4 min

Peak Storage= 7,199 cf @ 12.44 hrs
Average Depth at Peak Storage= 0.46' , Surface Width= 54.59'
Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 27.21 cfs

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50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 300.0' Slope= 0.0200 '/'

Inlet Invert= 202.00', Outlet Invert= 196.00'



Summary for Reach 16R: OVERLAND FLOW

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 7.31" for 100YR event

Inflow = 0.56 cfs @ 12.13 hrs, Volume= 1,950 cf

Outflow = 0.23 cfs @ 12.38 hrs, Volume= 1,886 cf, Atten= 58%, Lag= 14.6 min

Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.09 fps, Min. Travel Time= 50.8 min

Avg. Velocity= 0.04 fps, Avg. Travel Time= 117.2 min

Peak Storage= 710 cf @ 12.38 hrs

Average Depth at Peak Storage= 0.05' , Surface Width= 50.54'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 31.39 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 '/' Top Width= 60.00'

Length= 263.0' Slope= 0.0266 '/'

Inlet Invert= 216.00', Outlet Invert= 209.00'



Summary for Reach 18R: OVERLAND FLOW

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 4.98" for 100YR event

Inflow = 28.49 cfs @ 12.31 hrs, Volume= 129,658 cf

Outflow = 24.80 cfs @ 12.41 hrs, Volume= 128,348 cf, Atten= 13%, Lag= 6.0 min

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.53 fps, Min. Travel Time= 5.8 min

Avg. Velocity= 0.15 fps, Avg. Travel Time= 20.9 min

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Peak Storage= 8,585 cf @ 12.41 hrs

Average Depth at Peak Storage= 0.80' , Surface Width= 66.08'

Bank-Full Depth= 1.00' Flow Area= 60.0 sf, Capacity= 36.29 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 10.0 ' / ' Top Width= 70.00'

Length= 184.0' Slope= 0.0326 ' / '

Inlet Invert= 192.00', Outlet Invert= 186.00'



Summary for Reach 20R: OVERLAND FLOW

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth > 5.96" for 100YR event

Inflow = 9.06 cfs @ 12.19 hrs, Volume= 36,804 cf

Outflow = 3.92 cfs @ 12.52 hrs, Volume= 35,649 cf, Atten= 57%, Lag= 20.4 min

Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.19 fps, Min. Travel Time= 49.4 min

Avg. Velocity= 0.08 fps, Avg. Travel Time= 117.7 min

Peak Storage= 11,611 cf @ 12.52 hrs

Average Depth at Peak Storage= 0.40' , Surface Width= 53.99'

Bank-Full Depth= 1.00' Flow Area= 55.0 sf, Capacity= 18.54 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 5.0 ' / ' Top Width= 60.00'

Length= 560.0' Slope= 0.0093 ' / '

Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach 23R: OVERLAND FLOW

[61] Hint: Exceeded Reach 11R outlet invert by 0.32' @ 12.60 hrs

Inflow Area = 464,420 sf, 43.78% Impervious, Inflow Depth > 4.39" for 100YR event

Inflow = 26.52 cfs @ 12.48 hrs, Volume= 169,998 cf

Outflow = 24.85 cfs @ 12.62 hrs, Volume= 169,137 cf, Atten= 6%, Lag= 8.1 min

Routed to Link AP4 : ANALYSIS POINT #4

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.42 fps, Min. Travel Time= 9.4 min

Avg. Velocity = 0.14 fps, Avg. Travel Time= 28.8 min

Peak Storage= 13,944 cf @ 12.62 hrs

Average Depth at Peak Storage= 0.87' , Surface Width= 84.89'

Bank-Full Depth= 1.00' Flow Area= 70.0 sf, Capacity= 31.93 cfs

50.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 20.0 ' / ' Top Width= 90.00'

Length= 237.0' Slope= 0.0211 ' / '

Inlet Invert= 193.00', Outlet Invert= 188.00'



Summary for Reach R202: OVERLAND FLOW

[55] Hint: Peak inflow is 105% of Manning's capacity

[62] Hint: Exceeded Reach SC1 OUTLET depth by 0.41' @ 12.85 hrs

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 6.35" for 100YR event

Inflow = 44.49 cfs @ 12.29 hrs, Volume= 212,814 cf

Outflow = 25.09 cfs @ 12.60 hrs, Volume= 205,681 cf, Atten= 44%, Lag= 18.3 min

Routed to Link AP2 : ANALYSIS POINT 2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Max. Velocity= 0.29 fps, Min. Travel Time= 40.8 min

Avg. Velocity = 0.11 fps, Avg. Travel Time= 109.7 min

Peak Storage= 61,462 cf @ 12.60 hrs

Average Depth at Peak Storage= 0.74' , Surface Width= 137.04'

Bank-Full Depth= 1.00' Flow Area= 125.0 sf, Capacity= 42.56 cfs

100.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush

Side Slope Z-value= 25.0 ' / ' Top Width= 150.00'

Length= 700.0' Slope= 0.0107 ' / '

Inlet Invert= 205.50', Outlet Invert= 198.00'



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Summary for Reach R211: OVERLAND FLOW

[55] Hint: Peak inflow is 213% of Manning's capacity

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth = 3.47" for 100YR event
Inflow = 30.84 cfs @ 12.22 hrs, Volume= 79,833 cf
Outflow = 13.79 cfs @ 12.57 hrs, Volume= 79,320 cf, Atten= 55%, Lag= 21.0 min
Routed to Reach 11R : 4x4 Open Bottom Culvert

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 0.29 fps, Min. Travel Time= 35.0 min
Avg. Velocity= 0.10 fps, Avg. Travel Time= 96.6 min

Peak Storage= 28,949 cf @ 12.57 hrs
Average Depth at Peak Storage= 0.97' , Surface Width= 64.19'
Bank-Full Depth= 1.00' Flow Area= 50.0 sf, Capacity= 14.51 cfs

35.00' x 1.00' deep channel, n= 0.400 Sheet flow: Woods+light brush
Side Slope Z-value= 15.0 ' / ' Top Width= 65.00'
Length= 600.0' Slope= 0.0087 ' / '
Inlet Invert= 200.00', Outlet Invert= 194.80'



Summary for Reach SC1: Stream Crossing #1

[52] Hint: Inlet/Outlet conditions not evaluated

[90] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 401,873 sf, 3.47% Impervious, Inflow Depth > 6.36" for 100YR event
Inflow = 44.48 cfs @ 12.29 hrs, Volume= 212,846 cf
Outflow = 44.49 cfs @ 12.29 hrs, Volume= 212,814 cf, Atten= 0%, Lag= 0.1 min
Routed to Reach R202 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 4.70 fps, Min. Travel Time= 0.2 min
Avg. Velocity= 1.44 fps, Avg. Travel Time= 0.5 min

Peak Storage= 408 cf @ 12.29 hrs
Average Depth at Peak Storage= 0.59' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 69.8 sf, Capacity= 722.91 cfs

192.0" W x 60.0" H, R=207.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 43.1' Slope= 0.0200 ' / '
Inlet Invert= 206.37', Outlet Invert= 205.51'

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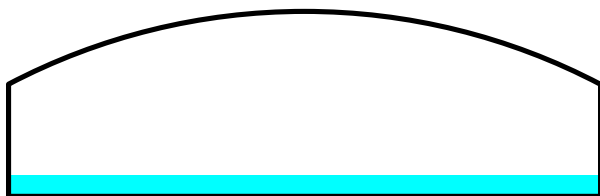
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Summary for Reach SC2: Stream Crossing #2

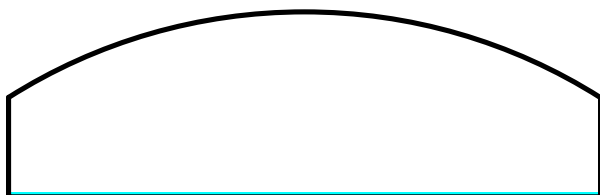
[52] Hint: Inlet/Outlet conditions not evaluated

Inflow Area = 38,220 sf, 16.10% Impervious, Inflow Depth > 6.34" for 100YR event
Inflow = 4.21 cfs @ 12.24 hrs, Volume= 20,189 cf
Outflow = 4.20 cfs @ 12.24 hrs, Volume= 20,186 cf, Atten= 0%, Lag= 0.2 min
Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Max. Velocity= 2.00 fps, Min. Travel Time= 0.3 min
Avg. Velocity= 1.07 fps, Avg. Travel Time= 0.6 min

Peak Storage= 77 cf @ 12.24 hrs
Average Depth at Peak Storage= 0.13' , Surface Width= 16.00'
Bank-Full Depth= 5.00' Flow Area= 68.1 sf, Capacity= 768.96 cfs

192.0" W x 60.0" H, R=180.0" Arch Pipe
n= 0.030 Stream, clean & straight
Length= 36.5' Slope= 0.0241 '/
Inlet Invert= 208.52', Outlet Invert= 207.64'



Summary for Pond 5R: TRENCH DRAIN

Inflow Area = 9,454 sf, 79.45% Impervious, Inflow Depth > 8.21" for 100YR event
Inflow = 1.85 cfs @ 12.09 hrs, Volume= 6,468 cf
Outflow = 1.85 cfs @ 12.09 hrs, Volume= 6,468 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.85 cfs @ 12.09 hrs, Volume= 6,468 cf
Routed to Pond D34 : DMH #34

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
Peak Elev= 199.09' @ 12.09 hrs
Flood Elev= 200.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.00'	15.0" Round Culvert L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 197.00' / 196.88' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

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Primary OutFlow Max=1.80 cfs @ 12.09 hrs HW=199.03' TW=198.93' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.80 cfs @ 1.47 fps)**Summary for Pond 11P: YARD DRAIN**

Inflow Area = 21,271 sf, 40.78% Impervious, Inflow Depth > 6.74" for 100YR event
 Inflow = 3.68 cfs @ 12.09 hrs, Volume= 11,953 cf
 Outflow = 2.89 cfs @ 12.16 hrs, Volume= 11,888 cf, Atten= 21%, Lag= 4.1 min
 Primary = 2.89 cfs @ 12.16 hrs, Volume= 11,888 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.48' @ 12.16 hrs Surf.Area= 6,431 sf Storage= 1,322 cf

Plug-Flow detention time= 14.3 min calculated for 11,863 cf (99% of inflow)

Center-of-Mass det. time= 10.9 min (806.5 - 795.5)

Volume	Invert	Avail.Storage	Storage Description
#1	207.25'	5,475 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.25	5,050	0	0
208.00	9,550	5,475	5,475

Device	Routing	Invert	Outlet Devices
#1	Primary	203.25'	12.0" Round Culvert L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 203.25' / 202.94' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#2	Device 1	207.25'	4.0" x 4.0" Horiz. Orifice/Grate X 4.00 columns X 4 rows C= 0.600 in 24.0" x 24.0" Grate (44% open area) Limited to weir flow at low heads

Primary OutFlow Max=2.86 cfs @ 12.16 hrs HW=207.48' TW=203.68' (Dynamic Tailwater)↑**1=Culvert** (Passes 2.86 cfs of 6.70 cfs potential flow)↑**2=Orifice/Grate** (Weir Controls 2.86 cfs @ 1.56 fps)**Summary for Pond CB1: CB#1**

Inflow Area = 26,588 sf, 32.90% Impervious, Inflow Depth > 5.74" for 100YR event
 Inflow = 3.02 cfs @ 12.22 hrs, Volume= 12,727 cf
 Outflow = 3.02 cfs @ 12.22 hrs, Volume= 12,727 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.02 cfs @ 12.22 hrs, Volume= 12,727 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.21' @ 12.22 hrs

Flood Elev= 211.00'

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Device	Routing	Invert	Outlet Devices
#1	Primary	207.83'	12.0" Round Culvert L= 14.1' Ke= 0.500 Inlet / Outlet Invert= 207.83' / 207.76' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.98 cfs @ 12.22 hrs HW=209.19' TW=208.42' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 2.98 cfs @ 3.79 fps)**Summary for Pond CB10: CB #10**

Inflow Area = 9,660 sf, 94.65% Impervious, Inflow Depth > 8.69" for 100YR event
 Inflow = 1.92 cfs @ 12.09 hrs, Volume= 6,999 cf
 Outflow = 1.92 cfs @ 12.09 hrs, Volume= 6,999 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.92 cfs @ 12.09 hrs, Volume= 6,999 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.19' @ 12.09 hrs

Flood Elev= 212.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.76'	12.0" Round Culvert L= 33.8' Ke= 0.500 Inlet / Outlet Invert= 209.76' / 209.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.87 cfs @ 12.09 hrs HW=211.13' TW=210.88' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.87 cfs @ 2.38 fps)**Summary for Pond CB11: CB #11**

Inflow Area = 13,834 sf, 51.04% Impervious, Inflow Depth > 7.36" for 100YR event
 Inflow = 2.55 cfs @ 12.09 hrs, Volume= 8,482 cf
 Outflow = 2.55 cfs @ 12.09 hrs, Volume= 8,482 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.55 cfs @ 12.09 hrs, Volume= 8,482 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.38' @ 12.09 hrs

Flood Elev= 213.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.94'	12.0" Round Culvert L= 26.3' Ke= 0.500 Inlet / Outlet Invert= 209.94' / 209.67' S= 0.0103 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.48 cfs @ 12.09 hrs HW=211.32' TW=210.89' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.48 cfs @ 3.16 fps)

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Summary for Pond CB12: CB #12

Inflow Area = 9,596 sf, 47.54% Impervious, Inflow Depth > 7.23" for 100YR event
 Inflow = 1.75 cfs @ 12.09 hrs, Volume= 5,785 cf
 Outflow = 1.75 cfs @ 12.09 hrs, Volume= 5,785 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.75 cfs @ 12.09 hrs, Volume= 5,785 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.57' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.0' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.70 cfs @ 12.09 hrs HW=210.56' TW=207.69' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.70 cfs @ 3.15 fps)**Summary for Pond CB13: CB #13**

Inflow Area = 8,572 sf, 67.67% Impervious, Inflow Depth > 7.85" for 100YR event
 Inflow = 1.64 cfs @ 12.09 hrs, Volume= 5,604 cf
 Outflow = 1.64 cfs @ 12.09 hrs, Volume= 5,604 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.64 cfs @ 12.09 hrs, Volume= 5,604 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.54' @ 12.09 hrs

Flood Elev= 212.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 14.6' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.62' S= 0.0048 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.60 cfs @ 12.09 hrs HW=210.53' TW=207.69' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.60 cfs @ 3.08 fps)**Summary for Pond CB14: CB #14**

Inflow Area = 12,986 sf, 75.60% Impervious, Inflow Depth > 7.23" for 100YR event
 Inflow = 2.37 cfs @ 12.09 hrs, Volume= 7,829 cf
 Outflow = 2.37 cfs @ 12.09 hrs, Volume= 7,829 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.37 cfs @ 12.09 hrs, Volume= 7,829 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 203.08' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 23.2' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.67' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.31 cfs @ 12.09 hrs HW=202.98' TW=202.61' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.31 cfs @ 2.94 fps)**Summary for Pond CB15: CB #15**

Inflow Area = 4,895 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.98 cfs @ 12.09 hrs, Volume= 3,596 cf
 Outflow = 0.98 cfs @ 12.09 hrs, Volume= 3,596 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.98 cfs @ 12.09 hrs, Volume= 3,596 cf
 Routed to Pond D8 : DMH #8

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.76' @ 12.09 hrs

Flood Elev= 203.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.79'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 200.79' / 200.71' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.95 cfs @ 12.09 hrs HW=202.66' TW=202.60' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.95 cfs @ 1.21 fps)**Summary for Pond CB16: CB #16**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 6.50" for 100YR event
 Inflow = 1.35 cfs @ 12.09 hrs, Volume= 4,365 cf
 Outflow = 1.35 cfs @ 12.09 hrs, Volume= 4,365 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.35 cfs @ 12.09 hrs, Volume= 4,365 cf
 Routed to Pond D10 : DMH #10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.30' @ 12.09 hrs

Flood Elev= 206.64'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.47'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 203.47' / 203.33' S= 0.0067 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.32 cfs @ 12.09 hrs HW=204.29' TW=204.07' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.32 cfs @ 2.62 fps)

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Summary for Pond CB17: CB #17

Inflow Area = 11,845 sf, 77.88% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 2.32 cfs @ 12.09 hrs, Volume= 8,104 cf
 Outflow = 2.32 cfs @ 12.09 hrs, Volume= 8,104 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.32 cfs @ 12.09 hrs, Volume= 8,104 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.94' @ 12.10 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.99'	12.0" Round Culvert L= 13.8' Ke= 0.500 Inlet / Outlet Invert= 204.99' / 204.86' S= 0.0094 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 12.09 hrs HW=207.77' TW=207.74' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.72 cfs @ 0.92 fps)**Summary for Pond CB18: CB #18**

Inflow Area = 25,103 sf, 74.55% Impervious, Inflow Depth > 7.08" for 100YR event
 Inflow = 3.95 cfs @ 12.09 hrs, Volume= 14,811 cf
 Outflow = 3.95 cfs @ 12.09 hrs, Volume= 14,811 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.95 cfs @ 12.09 hrs, Volume= 14,811 cf
 Routed to Pond D11 : DMH #11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.02' @ 12.10 hrs

Flood Elev= 208.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.72'	15.0" Round Culvert L= 25.1' Ke= 0.500 Inlet / Outlet Invert= 204.72' / 204.59' S= 0.0052 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.97 cfs @ 12.09 hrs HW=207.87' TW=207.75' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.97 cfs @ 1.60 fps)**Summary for Pond CB2: CB#2**

Inflow Area = 19,138 sf, 74.07% Impervious, Inflow Depth > 7.85" for 100YR event
 Inflow = 3.66 cfs @ 12.09 hrs, Volume= 12,512 cf
 Outflow = 3.66 cfs @ 12.09 hrs, Volume= 12,512 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.66 cfs @ 12.09 hrs, Volume= 12,512 cf
 Routed to Pond D1 : DMH#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.22' @ 12.10 hrs

Flood Elev= 208.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.86'	12.0" Round Culvert L= 92.1' Ke= 0.500 Inlet / Outlet Invert= 204.86' / 204.40' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.57 cfs @ 12.09 hrs HW=207.08' TW=205.67' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 3.57 cfs @ 4.54 fps)**Summary for Pond CB20: CB #20**

Inflow Area = 11,694 sf, 79.49% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 2.29 cfs @ 12.09 hrs, Volume= 8,001 cf
 Outflow = 2.29 cfs @ 12.09 hrs, Volume= 8,001 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.29 cfs @ 12.09 hrs, Volume= 8,001 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.53' @ 12.09 hrs

Flood Elev= 207.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.97'	12.0" Round Culvert L= 30.3' Ke= 0.500 Inlet / Outlet Invert= 203.97' / 203.81' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.23 cfs @ 12.09 hrs HW=205.46' TW=205.11' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.23 cfs @ 2.83 fps)**Summary for Pond CB21: CB #21**

Inflow Area = 9,093 sf, 91.54% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 1.78 cfs @ 12.09 hrs, Volume= 6,221 cf
 Outflow = 1.78 cfs @ 12.09 hrs, Volume= 6,221 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.78 cfs @ 12.09 hrs, Volume= 6,221 cf
 Routed to Pond D12 : DMH #12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.39' @ 12.09 hrs

Flood Elev= 208.02'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.32'	12.0" Round Culvert L= 26.0' Ke= 0.500 Inlet / Outlet Invert= 204.32' / 204.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.74 cfs @ 12.09 hrs HW=205.35' TW=205.11' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.74 cfs @ 2.68 fps)

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Summary for Pond CB22: CB #22

Inflow Area = 9,139 sf, 88.07% Impervious, Inflow Depth > 8.57" for 100YR event
 Inflow = 1.81 cfs @ 12.09 hrs, Volume= 6,529 cf
 Outflow = 1.81 cfs @ 12.09 hrs, Volume= 6,529 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.81 cfs @ 12.09 hrs, Volume= 6,529 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.63' @ 12.09 hrs

Flood Elev= 208.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.33'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 205.33' / 205.25' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.77 cfs @ 12.09 hrs HW=206.54' TW=206.32' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.77 cfs @ 2.25 fps)**Summary for Pond CB23: CB #23**

Inflow Area = 9,139 sf, 62.65% Impervious, Inflow Depth > 7.72" for 100YR event
 Inflow = 1.73 cfs @ 12.09 hrs, Volume= 5,882 cf
 Outflow = 1.73 cfs @ 12.09 hrs, Volume= 5,882 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.73 cfs @ 12.09 hrs, Volume= 5,882 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.61' @ 12.09 hrs

Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.41'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 205.41' / 205.32' S= 0.0055 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.73 cfs @ 12.09 hrs HW=206.53' TW=206.33' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.73 cfs @ 2.20 fps)**Summary for Pond CB24: CB #24**

Inflow Area = 1,933 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.39 cfs @ 12.09 hrs, Volume= 1,420 cf
 Outflow = 0.39 cfs @ 12.09 hrs, Volume= 1,420 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.39 cfs @ 12.09 hrs, Volume= 1,420 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.58' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.15' S= 0.0050 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.38 cfs @ 12.09 hrs HW=206.49' TW=206.48' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.38 cfs @ 0.48 fps)**Summary for Pond CB25: CB #25**

Inflow Area = 8,811 sf, 96.03% Impervious, Inflow Depth > 8.69" for 100YR event
 Inflow = 1.75 cfs @ 12.09 hrs, Volume= 6,383 cf
 Outflow = 1.75 cfs @ 12.09 hrs, Volume= 6,383 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.75 cfs @ 12.09 hrs, Volume= 6,383 cf
 Routed to Pond D16 : DMH #16

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.78' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.22'	12.0" Round Culvert L= 11.4' Ke= 0.500 Inlet / Outlet Invert= 205.22' / 205.16' S= 0.0053 '/ Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.71 cfs @ 12.09 hrs HW=206.68' TW=206.48' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.71 cfs @ 2.17 fps)**Summary for Pond CB26: CB #26**

Inflow Area = 14,532 sf, 64.66% Impervious, Inflow Depth > 8.09" for 100YR event
 Inflow = 2.82 cfs @ 12.09 hrs, Volume= 9,796 cf
 Outflow = 2.82 cfs @ 12.09 hrs, Volume= 9,796 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.82 cfs @ 12.09 hrs, Volume= 9,796 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.18' @ 12.09 hrs

Flood Elev= 204.93'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.77'	12.0" Round Culvert L= 42.5' Ke= 0.500 Inlet / Outlet Invert= 201.77' / 201.55' S= 0.0052 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.77 cfs @ 12.09 hrs HW=203.11' TW=202.57' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.77 cfs @ 3.52 fps)

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Summary for Pond CB27: CB #27

Inflow Area = 9,808 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 1.96 cfs @ 12.09 hrs, Volume= 7,204 cf
 Outflow = 1.96 cfs @ 12.09 hrs, Volume= 7,204 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.96 cfs @ 12.09 hrs, Volume= 7,204 cf
 Routed to Pond D17 : DMH #17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.91' @ 12.09 hrs

Flood Elev= 204.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.00'	12.0" Round Culvert L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 201.00' / 200.90' S= 0.0056 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.90 cfs @ 12.09 hrs HW=202.82' TW=202.56' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.90 cfs @ 2.42 fps)**Summary for Pond CB28: CB #28**

Inflow Area = 10,368 sf, 51.34% Impervious, Inflow Depth > 7.60" for 100YR event
 Inflow = 1.95 cfs @ 12.09 hrs, Volume= 6,568 cf
 Outflow = 1.95 cfs @ 12.09 hrs, Volume= 6,568 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.95 cfs @ 12.09 hrs, Volume= 6,568 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 199.71' @ 12.09 hrs

Flood Elev= 200.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.75'	12.0" Round Culvert L= 13.7' Ke= 0.500 Inlet / Outlet Invert= 197.75' / 197.69' S= 0.0044 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.90 cfs @ 12.09 hrs HW=199.63' TW=199.37' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.90 cfs @ 2.42 fps)**Summary for Pond CB29: CB #29**

Inflow Area = 6,798 sf, 77.21% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 1.33 cfs @ 12.09 hrs, Volume= 4,651 cf
 Outflow = 1.33 cfs @ 12.09 hrs, Volume= 4,651 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.33 cfs @ 12.09 hrs, Volume= 4,651 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 207.65' @ 12.09 hrs

Flood Elev= 208.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 13.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.31' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.29 cfs @ 12.09 hrs HW=207.53' TW=207.41' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.29 cfs @ 1.65 fps)**Summary for Pond CB3: CB#3**

Inflow Area = 17,454 sf, 72.05% Impervious, Inflow Depth > 7.60" for 100YR event
 Inflow = 3.28 cfs @ 12.09 hrs, Volume= 11,057 cf
 Outflow = 3.28 cfs @ 12.09 hrs, Volume= 11,057 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.28 cfs @ 12.09 hrs, Volume= 11,057 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.24' @ 12.08 hrs

Flood Elev= 210.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	12.0" Round Culvert L= 10.2' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.74' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.20 cfs @ 12.09 hrs HW=209.21' TW=208.33' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.20 cfs @ 4.07 fps)**Summary for Pond CB30: CB #30**

Inflow Area = 12,141 sf, 63.92% Impervious, Inflow Depth > 7.72" for 100YR event
 Inflow = 2.30 cfs @ 12.09 hrs, Volume= 7,814 cf
 Outflow = 2.30 cfs @ 12.09 hrs, Volume= 7,814 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.30 cfs @ 12.09 hrs, Volume= 7,814 cf
 Routed to Pond D19 : DMH #19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.90' @ 12.09 hrs

Flood Elev= 208.54'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.38'	12.0" Round Culvert L= 17.5' Ke= 0.500 Inlet / Outlet Invert= 205.38' / 205.29' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.24 cfs @ 12.09 hrs HW=207.77' TW=207.41' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.24 cfs @ 2.86 fps)

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Summary for Pond CB31: CB #31

Inflow Area = 11,736 sf, 71.29% Impervious, Inflow Depth > 7.97" for 100YR event
 Inflow = 2.26 cfs @ 12.09 hrs, Volume= 7,792 cf
 Outflow = 2.26 cfs @ 12.09 hrs, Volume= 7,792 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.26 cfs @ 12.09 hrs, Volume= 7,792 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.32' @ 12.09 hrs

Flood Elev= 207.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.22 cfs @ 12.09 hrs HW=205.29' TW=204.94' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.22 cfs @ 2.82 fps)**Summary for Pond CB32: CB #32**

Inflow Area = 10,801 sf, 62.85% Impervious, Inflow Depth > 7.72" for 100YR event
 Inflow = 2.05 cfs @ 12.09 hrs, Volume= 6,952 cf
 Outflow = 2.05 cfs @ 12.09 hrs, Volume= 6,952 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.05 cfs @ 12.09 hrs, Volume= 6,952 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.26' @ 12.09 hrs

Flood Elev= 207.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.19'	12.0" Round Culvert L= 16.3' Ke= 0.500 Inlet / Outlet Invert= 204.19' / 204.11' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.03 cfs @ 12.09 hrs HW=205.23' TW=204.94' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.03 cfs @ 2.58 fps)**Summary for Pond CB33: CB #33**

Inflow Area = 4,514 sf, 77.96% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 0.88 cfs @ 12.09 hrs, Volume= 3,088 cf
 Outflow = 0.88 cfs @ 12.09 hrs, Volume= 3,088 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.88 cfs @ 12.09 hrs, Volume= 3,088 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.20' @ 12.09 hrs

Flood Elev= 208.45'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.28'	12.0" Round Culvert L= 11.7' Ke= 0.500 Inlet / Outlet Invert= 205.28' / 205.22' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.86 cfs @ 12.09 hrs HW=206.18' TW=206.11' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.86 cfs @ 1.53 fps)**Summary for Pond CB34: CB #34**

Inflow Area = 7,027 sf, 72.62% Impervious, Inflow Depth > 7.97" for 100YR event
 Inflow = 1.36 cfs @ 12.09 hrs, Volume= 4,666 cf
 Outflow = 1.36 cfs @ 12.09 hrs, Volume= 4,666 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.36 cfs @ 12.09 hrs, Volume= 4,666 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.27' @ 12.09 hrs

Flood Elev= 208.38'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.21'	12.0" Round Culvert L= 16.5' Ke= 0.500 Inlet / Outlet Invert= 205.21' / 205.13' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.34 cfs @ 12.09 hrs HW=206.24' TW=206.11' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.34 cfs @ 2.06 fps)**Summary for Pond CB35: CB #35**

Inflow Area = 2,891 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.58 cfs @ 12.09 hrs, Volume= 2,124 cf
 Outflow = 0.58 cfs @ 12.09 hrs, Volume= 2,124 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.58 cfs @ 12.09 hrs, Volume= 2,124 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.59' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 15.2' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.09 hrs HW=207.57' TW=207.46' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.55 cfs @ 1.88 fps)

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Summary for Pond CB36: CB #36

Inflow Area = 6,622 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 1.32 cfs @ 12.09 hrs, Volume= 4,864 cf
 Outflow = 1.32 cfs @ 12.09 hrs, Volume= 4,864 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.32 cfs @ 12.09 hrs, Volume= 4,864 cf
 Routed to Pond D23 : DMH #23

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.78' @ 12.09 hrs

Flood Elev= 210.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.04'	12.0" Round Culvert L= 16.1' Ke= 0.500 Inlet / Outlet Invert= 207.04' / 206.96' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.29 cfs @ 12.09 hrs HW=207.77' TW=207.46' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.29 cfs @ 2.93 fps)**Summary for Pond CB37: CB #37**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 8.69" for 100YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 911 cf
 Outflow = 0.25 cfs @ 12.09 hrs, Volume= 911 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.09 hrs, Volume= 911 cf
 Routed to Pond D24 : DMH #24

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.32' @ 12.09 hrs

Flood Elev= 212.66'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.07'	12.0" Round Culvert L= 77.2' Ke= 0.500 Inlet / Outlet Invert= 209.07' / 208.31' S= 0.0098 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.24 cfs @ 12.09 hrs HW=209.31' TW=208.47' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.24 cfs @ 2.48 fps)**Summary for Pond CB38: CB #38**

Inflow Area = 19,951 sf, 77.05% Impervious, Inflow Depth > 7.85" for 100YR event
 Inflow = 3.82 cfs @ 12.09 hrs, Volume= 13,044 cf
 Outflow = 3.82 cfs @ 12.09 hrs, Volume= 13,044 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.82 cfs @ 12.09 hrs, Volume= 13,044 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 212.83' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.7' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0048 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.55 cfs @ 12.09 hrs HW=212.65' TW=211.77' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 3.55 cfs @ 4.52 fps)**Summary for Pond CB39: CB #39**

Inflow Area = 7,773 sf, 98.44% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 1.55 cfs @ 12.09 hrs, Volume= 5,710 cf
 Outflow = 1.55 cfs @ 12.09 hrs, Volume= 5,710 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.55 cfs @ 12.09 hrs, Volume= 5,710 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.99' @ 12.09 hrs

Flood Elev= 212.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.69'	12.0" Round Culvert L= 16.4' Ke= 0.500 Inlet / Outlet Invert= 209.69' / 209.61' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=211.83' TW=211.76' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.00 cfs @ 1.27 fps)**Summary for Pond CB4: CB#4**

Inflow Area = 44,168 sf, 23.30% Impervious, Inflow Depth > 5.24" for 100YR event
 Inflow = 4.09 cfs @ 12.30 hrs, Volume= 19,297 cf
 Outflow = 4.09 cfs @ 12.30 hrs, Volume= 19,297 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.09 cfs @ 12.30 hrs, Volume= 19,297 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.64' @ 12.21 hrs

Flood Elev= 215.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.02'	15.0" Round Culvert L= 13.1' Ke= 0.500 Inlet / Outlet Invert= 212.02' / 211.96' S= 0.0046 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.08 cfs @ 12.30 hrs HW=213.44' TW=212.97' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 4.08 cfs @ 3.33 fps)

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Summary for Pond CB40: CB #40

Inflow Area = 4,556 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.91 cfs @ 12.09 hrs, Volume= 3,347 cf
 Outflow = 0.91 cfs @ 12.09 hrs, Volume= 3,347 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.91 cfs @ 12.09 hrs, Volume= 3,347 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.33' @ 12.09 hrs

Flood Elev= 216.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.68'	12.0" Round Culvert L= 26.7' Ke= 0.500 Inlet / Outlet Invert= 213.68' / 213.55' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.88 cfs @ 12.09 hrs HW=215.26' TW=215.20' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.88 cfs @ 1.13 fps)**Summary for Pond CB41: CB #41**

Inflow Area = 12,750 sf, 69.28% Impervious, Inflow Depth > 7.48" for 100YR event
 Inflow = 2.37 cfs @ 12.09 hrs, Volume= 7,947 cf
 Outflow = 2.37 cfs @ 12.09 hrs, Volume= 7,947 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.37 cfs @ 12.09 hrs, Volume= 7,947 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.66' @ 12.09 hrs

Flood Elev= 217.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.89'	12.0" Round Culvert L= 18.4' Ke= 0.500 Inlet / Outlet Invert= 213.89' / 213.80' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.31 cfs @ 12.09 hrs HW=215.58' TW=215.21' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.31 cfs @ 2.95 fps)**Summary for Pond CB42: CB #42**

Inflow Area = 11,277 sf, 36.51% Impervious, Inflow Depth > 6.00" for 100YR event
 Inflow = 1.77 cfs @ 12.09 hrs, Volume= 5,641 cf
 Outflow = 1.77 cfs @ 12.09 hrs, Volume= 5,641 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.77 cfs @ 12.09 hrs, Volume= 5,641 cf
 Routed to Pond D28 : DMH #28

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 218.72' @ 12.09 hrs

Flood Elev= 221.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.91'	12.0" Round Culvert L= 58.1' Ke= 0.500 Inlet / Outlet Invert= 217.91' / 217.47' S= 0.0076 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.73 cfs @ 12.09 hrs HW=218.71' TW=218.10' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 1.73 cfs @ 3.54 fps)**Summary for Pond CB43: CB #43**

Inflow Area = 4,084 sf, 81.61% Impervious, Inflow Depth > 7.97" for 100YR event
 Inflow = 0.79 cfs @ 12.09 hrs, Volume= 2,712 cf
 Outflow = 0.79 cfs @ 12.09 hrs, Volume= 2,712 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.79 cfs @ 12.09 hrs, Volume= 2,712 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.68' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.77 cfs @ 12.09 hrs HW=220.67' TW=220.55' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.77 cfs @ 1.94 fps)**Summary for Pond CB44: CB #44**

Inflow Area = 1,662 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.33 cfs @ 12.09 hrs, Volume= 1,221 cf
 Outflow = 0.33 cfs @ 12.09 hrs, Volume= 1,221 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.33 cfs @ 12.09 hrs, Volume= 1,221 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.60' @ 12.09 hrs

Flood Elev= 223.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.00'	12.0" Round Culvert L= 14.9' Ke= 0.500 Inlet / Outlet Invert= 220.00' / 219.93' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.09 hrs HW=220.58' TW=220.55' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.32 cfs @ 0.98 fps)

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Summary for Pond CB45: CB #45

Inflow Area = 2,109 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.42 cfs @ 12.09 hrs, Volume= 1,549 cf
 Outflow = 0.42 cfs @ 12.09 hrs, Volume= 1,549 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.42 cfs @ 12.09 hrs, Volume= 1,549 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.68' @ 12.09 hrs

Flood Elev= 224.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.29'	12.0" Round Culvert L= 18.2' Ke= 0.500 Inlet / Outlet Invert= 221.29' / 221.20' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.41 cfs @ 12.09 hrs HW=221.67' TW=221.42' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.41 cfs @ 2.19 fps)**Summary for Pond CB46: CB #46**

Inflow Area = 1,371 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.27 cfs @ 12.09 hrs, Volume= 1,007 cf
 Outflow = 0.27 cfs @ 12.09 hrs, Volume= 1,007 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.27 cfs @ 12.09 hrs, Volume= 1,007 cf
 Routed to Pond D30 : DMH #30

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.84' @ 12.09 hrs

Flood Elev= 224.69'

Device	Routing	Invert	Outlet Devices
#1	Primary	221.53'	12.0" Round Culvert L= 15.3' Ke= 0.500 Inlet / Outlet Invert= 221.53' / 221.45' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=221.83' TW=221.42' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 0.27 cfs @ 1.97 fps)**Summary for Pond CB47: CB#47**

Inflow Area = 3,060 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.61 cfs @ 12.09 hrs, Volume= 2,248 cf
 Outflow = 0.61 cfs @ 12.09 hrs, Volume= 2,248 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.61 cfs @ 12.09 hrs, Volume= 2,248 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 226.24' @ 12.16 hrs

Flood Elev= 228.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	225.05'	12.0" Round Culvert L= 20.9' Ke= 0.500 Inlet / Outlet Invert= 225.05' / 224.27' S= 0.0373 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.74 cfs @ 12.09 hrs HW=225.80' TW=225.71' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.74 cfs @ 1.63 fps)**Summary for Pond CB48: CB#48**

Inflow Area = 60,166 sf, 25.94% Impervious, Inflow Depth > 5.38" for 100YR event
 Inflow = 7.16 cfs @ 12.16 hrs, Volume= 26,960 cf
 Outflow = 7.16 cfs @ 12.16 hrs, Volume= 26,960 cf, Atten= 0%, Lag= 0.0 min
 Primary = 7.16 cfs @ 12.16 hrs, Volume= 26,960 cf
 Routed to Pond D31 : DMH#31

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 227.69' @ 12.16 hrs

Flood Elev= 228.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	224.47'	15.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 224.47' / 224.00' S= 0.0278 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=7.04 cfs @ 12.16 hrs HW=227.59' TW=226.17' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 7.04 cfs @ 5.74 fps)**Summary for Pond CB49: CB#49**

Inflow Area = 5,895 sf, 28.14% Impervious, Inflow Depth > 5.51" for 100YR event
 Inflow = 0.85 cfs @ 12.09 hrs, Volume= 2,705 cf
 Outflow = 0.85 cfs @ 12.09 hrs, Volume= 2,705 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.85 cfs @ 12.09 hrs, Volume= 2,705 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.12' @ 12.15 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	216.30'	12.0" Round Culvert L= 15.4' Ke= 0.500 Inlet / Outlet Invert= 216.30' / 216.06' S= 0.0156 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.05 cfs @ 12.09 hrs HW=217.61' TW=217.53' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.05 cfs @ 1.34 fps)

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Summary for Pond CB5: CB#5

Inflow Area = 1,456 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.29 cfs @ 12.09 hrs, Volume= 1,069 cf
 Outflow = 0.29 cfs @ 12.09 hrs, Volume= 1,069 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.29 cfs @ 12.09 hrs, Volume= 1,069 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.31' @ 12.17 hrs

Flood Elev= 215.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.11'	12.0" Round Culvert L= 30.5' Ke= 0.500 Inlet / Outlet Invert= 212.11' / 211.96' S= 0.0049 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.33 cfs @ 12.09 hrs HW=212.97' TW=212.96' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.33 cfs @ 0.61 fps)**Summary for Pond CB50: CB#50**

Inflow Area = 5,175 sf, 33.29% Impervious, Inflow Depth > 5.63" for 100YR event
 Inflow = 0.77 cfs @ 12.09 hrs, Volume= 2,428 cf
 Outflow = 0.77 cfs @ 12.09 hrs, Volume= 2,428 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.77 cfs @ 12.09 hrs, Volume= 2,428 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.12' @ 12.15 hrs

Flood Elev= 219.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	215.36'	12.0" Round Culvert L= 17.3' Ke= 0.500 Inlet / Outlet Invert= 215.36' / 214.50' S= 0.0497 ' / ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.75 cfs @ 12.09 hrs HW=217.56' TW=217.53' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 0.75 cfs @ 0.96 fps)**Summary for Pond CB51: CB #51**

Inflow Area = 9,779 sf, 84.41% Impervious, Inflow Depth > 8.09" for 100YR event
 Inflow = 1.90 cfs @ 12.09 hrs, Volume= 6,592 cf
 Outflow = 1.90 cfs @ 12.09 hrs, Volume= 6,592 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.90 cfs @ 12.09 hrs, Volume= 6,592 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 210.53' @ 12.09 hrs

Flood Elev= 212.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	12.0" Round Culvert L= 16.9' Ke= 0.500 Inlet / Outlet Invert= 209.60' / 209.52' S= 0.0047 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.85 cfs @ 12.09 hrs HW=210.52' TW=209.03' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.85 cfs @ 3.21 fps)**Summary for Pond CB6: CB#6**

Inflow Area = 1,821 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.36 cfs @ 12.09 hrs, Volume= 1,338 cf
 Outflow = 0.36 cfs @ 12.09 hrs, Volume= 1,338 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.36 cfs @ 12.09 hrs, Volume= 1,338 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.31' @ 12.17 hrs

Flood Elev= 215.73'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.39'	12.0" Round Culvert L= 38.3' Ke= 0.500 Inlet / Outlet Invert= 212.39' / 211.96' S= 0.0112 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=213.02' TW=212.96' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.44 cfs @ 1.20 fps)**Summary for Pond CB7: CB#7**

Inflow Area = 12,883 sf, 48.58% Impervious, Inflow Depth > 6.50" for 100YR event
 Inflow = 2.16 cfs @ 12.09 hrs, Volume= 6,975 cf
 Outflow = 2.16 cfs @ 12.09 hrs, Volume= 6,975 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.16 cfs @ 12.09 hrs, Volume= 6,975 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.48' @ 12.10 hrs

Flood Elev= 217.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.60'	12.0" Round Culvert L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 214.60' / 213.68' S= 0.0088 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.13 cfs @ 12.09 hrs HW=215.46' TW=214.43' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.13 cfs @ 3.97 fps)

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Summary for Pond CB8: CB#8

Inflow Area = 44,098 sf, 25.01% Impervious, Inflow Depth > 5.37" for 100YR event
 Inflow = 4.47 cfs @ 12.25 hrs, Volume= 19,734 cf
 Outflow = 4.47 cfs @ 12.25 hrs, Volume= 19,734 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.47 cfs @ 12.25 hrs, Volume= 19,734 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.96' @ 12.25 hrs

Flood Elev= 217.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.06'	12.0" Round Culvert L= 12.1' Ke= 0.500 Inlet / Outlet Invert= 214.06' / 214.00' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.46 cfs @ 12.25 hrs HW=215.95' TW=214.44' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 4.46 cfs @ 5.68 fps)**Summary for Pond CB9: CB #9**

Inflow Area = 14,681 sf, 77.77% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 2.87 cfs @ 12.09 hrs, Volume= 10,044 cf
 Outflow = 2.87 cfs @ 12.09 hrs, Volume= 10,044 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.87 cfs @ 12.09 hrs, Volume= 10,044 cf
 Routed to Pond D5 : DMH #5

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.50' @ 12.09 hrs

Flood Elev= 213.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.10'	12.0" Round Culvert L= 19.9' Ke= 0.500 Inlet / Outlet Invert= 210.10' / 209.71' S= 0.0196 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.80 cfs @ 12.09 hrs HW=211.43' TW=210.88' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 2.80 cfs @ 3.56 fps)**Summary for Pond D1: DMH#1**

Inflow Area = 241,902 sf, 36.54% Impervious, Inflow Depth > 5.91" for 100YR event
 Inflow = 25.96 cfs @ 12.14 hrs, Volume= 119,050 cf
 Outflow = 25.96 cfs @ 12.14 hrs, Volume= 119,050 cf, Atten= 0%, Lag= 0.0 min
 Primary = 25.96 cfs @ 12.14 hrs, Volume= 119,050 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 205.81' @ 12.14 hrs

Flood Elev= 209.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	202.90'	30.0" Round Culvert L= 24.6' Ke= 0.500 Inlet / Outlet Invert= 202.90' / 202.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=25.81 cfs @ 12.14 hrs HW=205.80' TW=201.76' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 25.81 cfs @ 5.70 fps)**Summary for Pond D10: DMH #10**

Inflow Area = 8,063 sf, 64.54% Impervious, Inflow Depth > 6.50" for 100YR event
 Inflow = 1.35 cfs @ 12.09 hrs, Volume= 4,365 cf
 Outflow = 1.35 cfs @ 12.09 hrs, Volume= 4,365 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.35 cfs @ 12.09 hrs, Volume= 4,365 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.08' @ 12.09 hrs

Flood Elev= 206.49'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.33'	12.0" Round Culvert L= 15.6' Ke= 0.500 Inlet / Outlet Invert= 203.33' / 203.25' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.32 cfs @ 12.09 hrs HW=204.07' TW=198.28' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 1.32 cfs @ 2.96 fps)**Summary for Pond D11: DMH #11**

[80] Warning: Exceeded Pond CB17 by 0.04' @ 12.00 hrs (0.70 cfs 125 cf)

Inflow Area = 36,948 sf, 75.62% Impervious, Inflow Depth > 7.44" for 100YR event
 Inflow = 6.27 cfs @ 12.09 hrs, Volume= 22,915 cf
 Outflow = 6.27 cfs @ 12.09 hrs, Volume= 22,915 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.27 cfs @ 12.09 hrs, Volume= 22,915 cf
 Routed to Pond OCS3 : OCS#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.90' @ 12.10 hrs

Flood Elev= 208.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.25'	15.0" Round Culvert L= 44.6' Ke= 0.500 Inlet / Outlet Invert= 204.25' / 204.03' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

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Primary OutFlow Max=6.14 cfs @ 12.09 hrs HW=207.75' TW=206.67' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 6.14 cfs @ 5.01 fps)**Summary for Pond D12: DMH #12**

Inflow Area = 20,787 sf, 84.76% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 4.06 cfs @ 12.09 hrs, Volume= 14,222 cf
 Outflow = 4.06 cfs @ 12.09 hrs, Volume= 14,222 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.06 cfs @ 12.09 hrs, Volume= 14,222 cf
 Routed to Pond D13 : DMH #13

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.17' @ 12.09 hrs

Flood Elev= 207.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.21'	12.0" Round Culvert L= 41.9' Ke= 0.500 Inlet / Outlet Invert= 203.21' / 203.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.96 cfs @ 12.09 hrs HW=205.11' TW=203.88' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.96 cfs @ 5.04 fps)**Summary for Pond D13: DMH #13**

Inflow Area = 71,080 sf, 70.99% Impervious, Inflow Depth > 7.82" for 100YR event
 Inflow = 12.27 cfs @ 12.10 hrs, Volume= 46,325 cf
 Outflow = 12.27 cfs @ 12.10 hrs, Volume= 46,325 cf, Atten= 0%, Lag= 0.0 min
 Primary = 12.27 cfs @ 12.10 hrs, Volume= 46,325 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 203.92' @ 12.10 hrs

Flood Elev= 208.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	201.95'	24.0" Round Culvert L= 60.1' Ke= 0.500 Inlet / Outlet Invert= 201.95' / 201.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=12.15 cfs @ 12.10 hrs HW=203.90' TW=198.31' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 12.15 cfs @ 4.93 fps)**Summary for Pond D14: DMH #14**

Inflow Area = 29,022 sf, 83.28% Impervious, Inflow Depth > 8.36" for 100YR event
 Inflow = 5.69 cfs @ 12.09 hrs, Volume= 20,215 cf
 Outflow = 5.69 cfs @ 12.09 hrs, Volume= 20,215 cf, Atten= 0%, Lag= 0.0 min
 Primary = 5.69 cfs @ 12.09 hrs, Volume= 20,215 cf
 Routed to Pond d13 : DMH #13

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.43' @ 12.09 hrs

Flood Elev= 208.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.28'	15.0" Round Culvert L= 246.6' Ke= 0.500 Inlet / Outlet Invert= 204.28' / 203.05' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.54 cfs @ 12.09 hrs HW=206.32' TW=203.88' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 5.54 cfs @ 4.51 fps)**Summary for Pond D16: DMH #16**

Inflow Area = 10,744 sf, 96.74% Impervious, Inflow Depth > 8.72" for 100YR event
 Inflow = 2.14 cfs @ 12.09 hrs, Volume= 7,803 cf
 Outflow = 2.14 cfs @ 12.09 hrs, Volume= 7,803 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.14 cfs @ 12.09 hrs, Volume= 7,803 cf
 Routed to Pond D14 : DMH #14

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.57' @ 12.09 hrs

Flood Elev= 208.59'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.90'	15.0" Round Culvert L= 103.5' Ke= 0.500 Inlet / Outlet Invert= 204.90' / 204.38' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.14 cfs @ 12.09 hrs HW=206.48' TW=206.32' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.14 cfs @ 1.78 fps)**Summary for Pond D17: DMH #17**

Inflow Area = 24,340 sf, 78.90% Impervious, Inflow Depth > 8.38" for 100YR event
 Inflow = 4.78 cfs @ 12.09 hrs, Volume= 17,000 cf
 Outflow = 4.78 cfs @ 12.09 hrs, Volume= 17,000 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.78 cfs @ 12.09 hrs, Volume= 17,000 cf
 Routed to Pond D18 : DMH #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.64' @ 12.09 hrs

Flood Elev= 204.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.55'	12.0" Round Culvert L= 91.6' Ke= 0.500 Inlet / Outlet Invert= 200.55' / 197.69' S= 0.0312 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

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Primary OutFlow Max=4.65 cfs @ 12.09 hrs HW=202.56' TW=199.37' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 4.65 cfs @ 5.93 fps)**Summary for Pond D18: DMH #18**

Inflow Area = 34,708 sf, 70.67% Impervious, Inflow Depth > 8.15" for 100YR event
 Inflow = 6.73 cfs @ 12.09 hrs, Volume= 23,568 cf
 Outflow = 6.73 cfs @ 12.09 hrs, Volume= 23,568 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.73 cfs @ 12.09 hrs, Volume= 23,568 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 199.44' @ 12.09 hrs

Flood Elev= 201.13'

Device	Routing	Invert	Outlet Devices
#1	Primary	197.44'	15.0" Round Culvert L= 46.3' Ke= 0.500 Inlet / Outlet Invert= 197.44' / 196.98' S= 0.0099 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=6.55 cfs @ 12.09 hrs HW=199.37' TW=197.43' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 6.55 cfs @ 5.34 fps)**Summary for Pond D19: DMH #19**

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 7.90" for 100YR event
 Inflow = 3.63 cfs @ 12.09 hrs, Volume= 12,466 cf
 Outflow = 3.63 cfs @ 12.09 hrs, Volume= 12,466 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.63 cfs @ 12.09 hrs, Volume= 12,466 cf
 Routed to Pond d20 : DMH #20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.53' @ 12.09 hrs

Flood Elev= 208.57'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.19'	12.0" Round Culvert L= 82.5' Ke= 0.500 Inlet / Outlet Invert= 205.19' / 204.43' S= 0.0092 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.54 cfs @ 12.09 hrs HW=207.41' TW=206.12' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 3.54 cfs @ 4.51 fps)**Summary for Pond D2: DMH#2**

Inflow Area = 222,764 sf, 33.32% Impervious, Inflow Depth > 5.74" for 100YR event
 Inflow = 23.09 cfs @ 12.16 hrs, Volume= 106,537 cf
 Outflow = 23.09 cfs @ 12.16 hrs, Volume= 106,537 cf, Atten= 0%, Lag= 0.0 min
 Primary = 23.09 cfs @ 12.16 hrs, Volume= 106,537 cf
 Routed to Pond D1 : DMH#1

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.49' @ 12.16 hrs

Flood Elev= 211.04'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.29'	30.0" Round Culvert L= 129.9' Ke= 0.500 Inlet / Outlet Invert= 206.29' / 204.41' S= 0.0145 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=22.95 cfs @ 12.16 hrs HW=208.48' TW=205.78' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 22.95 cfs @ 5.04 fps)**Summary for Pond D20: DMH #20**

Inflow Area = 18,939 sf, 68.69% Impervious, Inflow Depth > 7.90" for 100YR event
 Inflow = 3.63 cfs @ 12.09 hrs, Volume= 12,466 cf
 Outflow = 3.63 cfs @ 12.09 hrs, Volume= 12,466 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.63 cfs @ 12.09 hrs, Volume= 12,466 cf
 Routed to Pond D21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.18' @ 12.09 hrs

Flood Elev= 207.68'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.33'	12.0" Round Culvert L= 63.5' Ke= 0.500 Inlet / Outlet Invert= 204.33' / 204.02' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.54 cfs @ 12.09 hrs HW=206.12' TW=204.94' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.54 cfs @ 4.51 fps)**Summary for Pond D21: DMH #21**

Inflow Area = 63,788 sf, 74.43% Impervious, Inflow Depth > 8.06" for 100YR event
 Inflow = 12.33 cfs @ 12.09 hrs, Volume= 42,862 cf
 Outflow = 12.33 cfs @ 12.09 hrs, Volume= 42,862 cf, Atten= 0%, Lag= 0.0 min
 Primary = 12.33 cfs @ 12.09 hrs, Volume= 42,862 cf
 Routed to Pond p212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 204.98' @ 12.09 hrs

Flood Elev= 207.55'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.02'	24.0" Round Culvert L= 72.4' Ke= 0.500 Inlet / Outlet Invert= 203.02' / 202.66' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

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Primary OutFlow Max=12.01 cfs @ 12.09 hrs HW=204.94' TW=202.78' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 12.01 cfs @ 4.95 fps)**Summary for Pond D22: DMH #22**

Inflow Area = 22,312 sf, 86.56% Impervious, Inflow Depth > 8.42" for 100YR event
 Inflow = 4.39 cfs @ 12.09 hrs, Volume= 15,653 cf
 Outflow = 4.39 cfs @ 12.09 hrs, Volume= 15,653 cf, Atten= 0%, Lag= 0.0 min
 Primary = 4.39 cfs @ 12.09 hrs, Volume= 15,653 cf
 Routed to Pond d21 : DMH #21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.14' @ 12.09 hrs

Flood Elev= 208.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	204.87'	15.0" Round Culvert L= 134.2' Ke= 0.500 Inlet / Outlet Invert= 204.87' / 203.92' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.27 cfs @ 12.09 hrs HW=206.11' TW=204.94' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 4.27 cfs @ 4.37 fps)**Summary for Pond D23: DMH #23**

Inflow Area = 10,771 sf, 99.27% Impervious, Inflow Depth > 8.80" for 100YR event
 Inflow = 2.15 cfs @ 12.09 hrs, Volume= 7,899 cf
 Outflow = 2.15 cfs @ 12.09 hrs, Volume= 7,899 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.15 cfs @ 12.09 hrs, Volume= 7,899 cf
 Routed to Pond D22 : DMH #22

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.47' @ 12.09 hrs

Flood Elev= 210.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.70'	15.0" Round Culvert L= 173.3' Ke= 0.500 Inlet / Outlet Invert= 206.70' / 204.97' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.09 cfs @ 12.09 hrs HW=207.46' TW=206.11' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 2.09 cfs @ 3.84 fps)**Summary for Pond D24: DMH #24**

Inflow Area = 1,258 sf, 93.72% Impervious, Inflow Depth > 8.69" for 100YR event
 Inflow = 0.25 cfs @ 12.09 hrs, Volume= 911 cf
 Outflow = 0.25 cfs @ 12.09 hrs, Volume= 911 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.25 cfs @ 12.09 hrs, Volume= 911 cf
 Routed to Pond D23 : DMH #23

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.48' @ 12.09 hrs

Flood Elev= 211.62'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.21'	12.0" Round Culvert L= 140.9' Ke= 0.500 Inlet / Outlet Invert= 208.21' / 207.13' S= 0.0077 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.24 cfs @ 12.09 hrs HW=208.47' TW=207.46' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.24 cfs @ 2.21 fps)**Summary for Pond D25: DMH #25**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 7.72" for 100YR event
 Inflow = 12.23 cfs @ 12.09 hrs, Volume= 42,176 cf
 Outflow = 12.23 cfs @ 12.09 hrs, Volume= 42,176 cf, Atten= 0%, Lag= 0.0 min
 Primary = 12.23 cfs @ 12.09 hrs, Volume= 42,176 cf
 Routed to Pond D26 : DMH #26

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.91' @ 12.09 hrs

Flood Elev= 213.11'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	18.0" Round Culvert L= 78.6' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.10' S= 0.0051 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=11.92 cfs @ 12.09 hrs HW=211.77' TW=209.81' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 11.92 cfs @ 6.75 fps)**Summary for Pond D26: DMH #26**

Inflow Area = 65,533 sf, 74.78% Impervious, Inflow Depth > 7.72" for 100YR event
 Inflow = 12.23 cfs @ 12.09 hrs, Volume= 42,176 cf
 Outflow = 12.23 cfs @ 12.09 hrs, Volume= 42,176 cf, Atten= 0%, Lag= 0.0 min
 Primary = 12.23 cfs @ 12.09 hrs, Volume= 42,176 cf
 Routed to Pond D33 : DMH #33

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.86' @ 12.09 hrs

Flood Elev= 213.71'

Device	Routing	Invert	Outlet Devices
#1	Primary	207.60'	24.0" Round Culvert L= 127.0' Ke= 0.500 Inlet / Outlet Invert= 207.60' / 206.97' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

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Primary OutFlow Max=11.93 cfs @ 12.09 hrs HW=209.81' TW=209.03' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 11.93 cfs @ 4.29 fps)**Summary for Pond D27: DMH #27**

Inflow Area = 37,809 sf, 68.72% Impervious, Inflow Depth > 7.43" for 100YR event
 Inflow = 6.86 cfs @ 12.09 hrs, Volume= 23,423 cf
 Outflow = 6.86 cfs @ 12.09 hrs, Volume= 23,423 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.86 cfs @ 12.09 hrs, Volume= 23,423 cf
 Routed to Pond D25 : DMH #25

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 215.27' @ 12.09 hrs

Flood Elev= 217.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	213.30'	15.0" Round Culvert L= 247.1' Ke= 0.500 Inlet / Outlet Invert= 213.30' / 208.48' S= 0.0195 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=6.69 cfs @ 12.09 hrs HW=215.21' TW=211.78' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 6.69 cfs @ 5.45 fps)**Summary for Pond D28: DMH #28**

Inflow Area = 20,503 sf, 61.42% Impervious, Inflow Depth > 7.10" for 100YR event
 Inflow = 3.58 cfs @ 12.09 hrs, Volume= 12,130 cf
 Outflow = 3.58 cfs @ 12.09 hrs, Volume= 12,130 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.58 cfs @ 12.09 hrs, Volume= 12,130 cf
 Routed to Pond D27 : DMH #27

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.12' @ 12.09 hrs

Flood Elev= 220.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	217.12'	15.0" Round Culvert L= 189.5' Ke= 0.500 Inlet / Outlet Invert= 217.12' / 213.40' S= 0.0196 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.49 cfs @ 12.09 hrs HW=218.10' TW=215.21' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 3.49 cfs @ 3.38 fps)**Summary for Pond D29: DMH #29**

Inflow Area = 9,226 sf, 91.86% Impervious, Inflow Depth > 8.44" for 100YR event
 Inflow = 1.81 cfs @ 12.09 hrs, Volume= 6,488 cf
 Outflow = 1.81 cfs @ 12.09 hrs, Volume= 6,488 cf, Atten= 0%, Lag= 0.0 min
 Primary = 1.81 cfs @ 12.09 hrs, Volume= 6,488 cf
 Routed to Pond D28 : DMH #28

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.57' @ 12.09 hrs

Flood Elev= 223.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	219.83'	12.0" Round Culvert L= 118.4' Ke= 0.500 Inlet / Outlet Invert= 219.83' / 217.54' S= 0.0193 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.76 cfs @ 12.09 hrs HW=220.55' TW=218.10' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 1.76 cfs @ 2.90 fps)**Summary for Pond D3: DMH#3**

Inflow Area = 178,722 sf, 29.60% Impervious, Inflow Depth > 5.56" for 100YR event
 Inflow = 17.93 cfs @ 12.17 hrs, Volume= 82,754 cf
 Outflow = 17.93 cfs @ 12.17 hrs, Volume= 82,754 cf, Atten= 0%, Lag= 0.0 min
 Primary = 17.93 cfs @ 12.17 hrs, Volume= 82,754 cf
 Routed to Pond D2 : DMH#2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.30' @ 12.17 hrs

Flood Elev= 215.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	24.0" Round Culvert L= 282.0' Ke= 0.500 Inlet / Outlet Invert= 210.90' / 206.79' S= 0.0146 ' / Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=17.74 cfs @ 12.17 hrs HW=213.28' TW=208.47' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 17.74 cfs @ 5.65 fps)**Summary for Pond D30: DMH #30**

Inflow Area = 3,480 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 0.69 cfs @ 12.09 hrs, Volume= 2,556 cf
 Outflow = 0.69 cfs @ 12.09 hrs, Volume= 2,556 cf, Atten= 0%, Lag= 0.0 min
 Primary = 0.69 cfs @ 12.09 hrs, Volume= 2,556 cf
 Routed to Pond D29 : DMH #29

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.43' @ 12.09 hrs

Flood Elev= 224.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	220.92'	12.0" Round Culvert L= 184.2' Ke= 0.500 Inlet / Outlet Invert= 220.92' / 220.00' S= 0.0050 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

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Primary OutFlow Max=0.68 cfs @ 12.09 hrs HW=221.42' TW=220.55' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 0.68 cfs @ 2.49 fps)**Summary for Pond D31: DMH#31**

Inflow Area = 63,226 sf, 29.53% Impervious, Inflow Depth > 5.54" for 100YR event
 Inflow = 7.61 cfs @ 12.16 hrs, Volume= 29,207 cf
 Outflow = 7.61 cfs @ 12.16 hrs, Volume= 29,207 cf, Atten= 0%, Lag= 0.0 min
 Primary = 7.61 cfs @ 12.16 hrs, Volume= 29,207 cf
 Routed to Pond D32 : DMH#32

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 226.22' @ 12.16 hrs

Flood Elev= 227.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	223.94'	15.0" Round Culvert L= 158.7' Ke= 0.500 Inlet / Outlet Invert= 223.94' / 214.45' S= 0.0598 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=7.52 cfs @ 12.16 hrs HW=226.18' TW=218.00' (Dynamic Tailwater)↑**1=Culvert** (Inlet Controls 7.52 cfs @ 6.13 fps)**Summary for Pond D32: DMH#32**

Inflow Area = 74,296 sf, 29.68% Impervious, Inflow Depth > 5.55" for 100YR event
 Inflow = 8.89 cfs @ 12.15 hrs, Volume= 34,341 cf
 Outflow = 8.89 cfs @ 12.15 hrs, Volume= 34,341 cf, Atten= 0%, Lag= 0.0 min
 Primary = 8.89 cfs @ 12.15 hrs, Volume= 34,341 cf
 Routed to Pond D4 : DMH#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.09' @ 12.15 hrs

Flood Elev= 219.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	214.25'	15.0" Round Culvert L= 122.0' Ke= 0.500 Inlet / Outlet Invert= 214.25' / 213.64' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=8.85 cfs @ 12.15 hrs HW=218.06' TW=214.62' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 8.85 cfs @ 7.22 fps)**Summary for Pond D33: DMH #33**

Inflow Area = 75,312 sf, 76.03% Impervious, Inflow Depth > 7.77" for 100YR event
 Inflow = 14.13 cfs @ 12.09 hrs, Volume= 48,768 cf
 Outflow = 14.13 cfs @ 12.09 hrs, Volume= 48,768 cf, Atten= 0%, Lag= 0.0 min
 Primary = 14.13 cfs @ 12.09 hrs, Volume= 48,768 cf
 Routed to Pond P210 : POCKET WETLAND #1

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.08' @ 12.09 hrs

Flood Elev= 212.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	206.87'	24.0" Round Culvert L= 39.0' Ke= 0.500 Inlet / Outlet Invert= 206.87' / 206.67' S= 0.0051 ' S= 0.0051 ' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf

Primary OutFlow Max=13.77 cfs @ 12.09 hrs HW=209.03' TW=205.01' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 13.77 cfs @ 5.05 fps)**Summary for Pond D34: DMH #34**

Inflow Area = 34,553 sf, 94.38% Impervious, Inflow Depth > 8.65" for 100YR event
 Inflow = 6.86 cfs @ 12.09 hrs, Volume= 24,904 cf
 Outflow = 6.86 cfs @ 12.09 hrs, Volume= 24,904 cf, Atten= 0%, Lag= 0.0 min
 Primary = 6.86 cfs @ 12.09 hrs, Volume= 24,904 cf
 Routed to Pond OCS1 : OCS#1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 198.99' @ 12.09 hrs

Flood Elev= 202.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	196.78'	15.0" Round Culvert L= 51.0' Ke= 0.500 Inlet / Outlet Invert= 196.78' / 196.53' S= 0.0049 ' S= 0.0049 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=6.67 cfs @ 12.09 hrs HW=198.93' TW=197.43' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 6.67 cfs @ 5.44 fps)**Summary for Pond D4: DMH#4**

Inflow Area = 131,277 sf, 29.96% Impervious, Inflow Depth > 5.58" for 100YR event
 Inflow = 14.30 cfs @ 12.16 hrs, Volume= 61,050 cf
 Outflow = 14.30 cfs @ 12.16 hrs, Volume= 61,050 cf, Atten= 0%, Lag= 0.0 min
 Primary = 14.30 cfs @ 12.16 hrs, Volume= 61,050 cf
 Routed to Pond D3 : DMH#3

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.64' @ 12.16 hrs

Flood Elev= 217.27'

Device	Routing	Invert	Outlet Devices
#1	Primary	212.68'	24.0" Round Culvert L= 131.1' Ke= 0.500 Inlet / Outlet Invert= 212.68' / 211.04' S= 0.0125 ' S= 0.0125 ' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf

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Primary OutFlow Max=14.23 cfs @ 12.16 hrs HW=214.63' TW=213.28' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 14.23 cfs @ 5.79 fps)**Summary for Pond D5: DMH #5**

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 8.02" for 100YR event
 Inflow = 7.34 cfs @ 12.09 hrs, Volume= 25,525 cf
 Outflow = 7.34 cfs @ 12.09 hrs, Volume= 25,525 cf, Atten= 0%, Lag= 0.0 min
 Primary = 7.34 cfs @ 12.09 hrs, Volume= 25,525 cf
 Routed to Pond D6 : DMH #6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.94' @ 12.09 hrs

Flood Elev= 212.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	209.09'	18.0" Round Culvert L= 183.0' Ke= 0.500 Inlet / Outlet Invert= 209.09' / 208.17' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.17 cfs @ 12.09 hrs HW=210.89' TW=209.70' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 7.17 cfs @ 4.29 fps)**Summary for Pond D6: DMH #6**

Inflow Area = 38,175 sf, 72.35% Impervious, Inflow Depth > 8.02" for 100YR event
 Inflow = 7.34 cfs @ 12.09 hrs, Volume= 25,525 cf
 Outflow = 7.34 cfs @ 12.09 hrs, Volume= 25,525 cf, Atten= 0%, Lag= 0.0 min
 Primary = 7.34 cfs @ 12.09 hrs, Volume= 25,525 cf
 Routed to Pond D7 : DMH #7

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.74' @ 12.09 hrs

Flood Elev= 214.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	208.07'	18.0" Round Culvert L= 299.7' Ke= 0.500 Inlet / Outlet Invert= 208.07' / 206.57' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.16 cfs @ 12.09 hrs HW=209.70' TW=207.69' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 7.16 cfs @ 4.64 fps)**Summary for Pond D7: DMH #7**

Inflow Area = 56,343 sf, 67.42% Impervious, Inflow Depth > 7.86" for 100YR event
 Inflow = 10.73 cfs @ 12.09 hrs, Volume= 36,914 cf
 Outflow = 10.73 cfs @ 12.09 hrs, Volume= 36,914 cf, Atten= 0%, Lag= 0.0 min
 Primary = 10.73 cfs @ 12.09 hrs, Volume= 36,914 cf
 Routed to Pond P212 : INFILTRATION POND #1

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.72' @ 12.09 hrs

Flood Elev= 213.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	205.97'	24.0" Round Culvert L= 101.8' Ke= 0.500 Inlet / Outlet Invert= 205.97' / 205.46' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=10.45 cfs @ 12.09 hrs HW=207.69' TW=202.78' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 10.45 cfs @ 4.87 fps)**Summary for Pond D8: DMH #8**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 7.67" for 100YR event
 Inflow = 3.34 cfs @ 12.09 hrs, Volume= 11,425 cf
 Outflow = 3.34 cfs @ 12.09 hrs, Volume= 11,425 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.34 cfs @ 12.09 hrs, Volume= 11,425 cf
 Routed to Pond D9 : DMH #9

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 202.69' @ 12.09 hrs

Flood Elev= 204.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.57'	12.0" Round Culvert L= 87.7' Ke= 0.500 Inlet / Outlet Invert= 200.57' / 200.13' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=3.26 cfs @ 12.09 hrs HW=202.61' TW=201.47' (Dynamic Tailwater)↑**1=Culvert** (Outlet Controls 3.26 cfs @ 4.15 fps)**Summary for Pond D9: DMH #9**

Inflow Area = 17,881 sf, 82.28% Impervious, Inflow Depth > 7.67" for 100YR event
 Inflow = 3.34 cfs @ 12.09 hrs, Volume= 11,425 cf
 Outflow = 3.34 cfs @ 12.09 hrs, Volume= 11,425 cf, Atten= 0%, Lag= 0.0 min
 Primary = 3.34 cfs @ 12.09 hrs, Volume= 11,425 cf
 Routed to Pond P207 : INFILTRATION POND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 201.50' @ 12.09 hrs

Flood Elev= 204.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	200.03'	12.0" Round Culvert L= 11.9' Ke= 0.500 Inlet / Outlet Invert= 200.03' / 199.97' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

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Primary OutFlow Max=3.26 cfs @ 12.09 hrs HW=201.47' TW=198.27' (Dynamic Tailwater)↑**1=Culvert** (Barrel Controls 3.26 cfs @ 4.15 fps)**Summary for Pond DE1: DRIP #1**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,702 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 100 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,602 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 224.15' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,702 cf (89% of inflow)
 Center-of-Mass det. time= 38.4 min (796.5 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1	221.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.99	323	0.0	0	0
222.00	323	40.0	1	1
224.99	323	40.0	386	388
225.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	224.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.50' / 223.45' S= 0.0050 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=222.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=224.14' TW=218.04' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.48 cfs @ 2.49 fps)**Summary for Pond DE10: DRIP #10**

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Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf
 Outflow = 0.45 cfs @ 12.12 hrs, Volume= 1,534 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 3.10 hrs, Volume= 91 cf
 Primary = 0.45 cfs @ 12.12 hrs, Volume= 1,443 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 214.09' @ 12.12 hrs Surf.Area= 290 sf Storage= 244 cf

Plug-Flow detention time= 90.6 min calculated for 1,534 cf (89% of inflow)
 Center-of-Mass det. time= 39.5 min (793.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	290	0.0	0	0
212.00	290	40.0	1	1
214.99	290	40.0	347	348
215.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.10 hrs HW=212.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.44 cfs @ 12.12 hrs HW=214.08' TW=202.89' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.44 cfs @ 2.43 fps)

Summary for Pond DE11: DRIP #11

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,730 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 101 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,628 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.15' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,726 cf (89% of inflow)

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Center-of-Mass det. time= 39.5 min (793.6 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=211.02' (Free Discharge)←**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=213.14' TW=202.91' (Dynamic Tailwater)←**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)←**2=Culvert** (Barrel Controls 0.48 cfs @ 2.50 fps)**Summary for Pond DE12: DRIP #12**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,255 cf
 Outflow = 0.56 cfs @ 12.13 hrs, Volume= 2,097 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 117 cf
 Primary = 0.56 cfs @ 12.13 hrs, Volume= 1,980 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.44' @ 12.13 hrs Surf.Area= 373 sf Storage= 262 cf

Plug-Flow detention time= 68.7 min calculated for 2,093 cf (93% of inflow)

Center-of-Mass det. time= 31.2 min (785.3 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.69'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.69	373	0.0	0	0
210.70	373	40.0	1	1
213.69	373	40.0	446	448
213.70	373	100.0	4	451

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Device	Routing	Invert	Outlet Devices
#1	Primary	213.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.70' / 211.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.69'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=210.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.55 cfs @ 12.13 hrs HW=212.43' TW=202.94' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.55 cfs @ 2.80 fps)**Summary for Pond DE13: DRIP #13**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 8.57" for 100YR event
 Inflow = 0.81 cfs @ 12.09 hrs, Volume= 2,928 cf
 Outflow = 0.73 cfs @ 12.13 hrs, Volume= 2,688 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 2.40 hrs, Volume= 123 cf
 Primary = 0.72 cfs @ 12.13 hrs, Volume= 2,565 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.43' @ 12.13 hrs Surf.Area= 383 sf Storage= 374 cf

Plug-Flow detention time= 78.7 min calculated for 2,682 cf (92% of inflow)

Center-of-Mass det. time= 36.3 min (785.9 - 749.6)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	383	0.0	0	0
210.00	383	40.0	2	2
212.99	383	40.0	458	460
213.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

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Discarded OutFlow Max=0.00 cfs @ 2.40 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.71 cfs @ 12.13 hrs HW=212.41' TW=202.93' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.71 cfs @ 3.61 fps)**Summary for Pond DE14: DRIP #14**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf
 Outflow = 0.45 cfs @ 12.12 hrs, Volume= 1,534 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 2.35 hrs, Volume= 91 cf
 Primary = 0.45 cfs @ 12.12 hrs, Volume= 1,443 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.49' @ 12.12 hrs Surf.Area= 290 sf Storage= 244 cf

Plug-Flow detention time= 90.6 min calculated for 1,534 cf (89% of inflow)

Center-of-Mass det. time= 39.5 min (793.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.39'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.39	290	0.0	0	0
208.40	290	40.0	1	1
211.39	290	40.0	347	348
211.40	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	211.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.90' / 209.85' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.35 hrs HW=208.40' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.44 cfs @ 12.12 hrs HW=210.48' TW=202.89' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.44 cfs @ 2.43 fps)

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Summary for Pond DE15: DRIP #15

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,334 cf
 Outflow = 0.36 cfs @ 12.11 hrs, Volume= 1,154 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 2.95 hrs, Volume= 89 cf
 Primary = 0.36 cfs @ 12.11 hrs, Volume= 1,065 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 209.79' @ 12.11 hrs Surf.Area= 290 sf Storage= 232 cf

Plug-Flow detention time= 103.3 min calculated for 1,154 cf (87% of inflow)
 Center-of-Mass det. time= 43.3 min (801.4 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	290	0.0	0	0
207.80	290	40.0	1	1
210.79	290	40.0	347	348
210.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.30' / 209.25' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.95 hrs HW=207.80' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.35 cfs @ 12.11 hrs HW=209.78' TW=202.89' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.35 cfs @ 2.28 fps)

Summary for Pond DE16: DRIP #16

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf
 Outflow = 0.45 cfs @ 12.12 hrs, Volume= 1,534 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 2.35 hrs, Volume= 91 cf
 Primary = 0.45 cfs @ 12.12 hrs, Volume= 1,443 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 209.39' @ 12.12 hrs Surf.Area= 290 sf Storage= 244 cf

Plug-Flow detention time= 90.6 min calculated for 1,534 cf (89% of inflow)

Center-of-Mass det. time= 39.5 min (793.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.29	290	0.0	0	0
207.30	290	40.0	1	1
210.29	290	40.0	347	348
210.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	210.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.80' / 208.75' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.35 hrs HW=207.30' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.44 cfs @ 12.12 hrs HW=209.38' TW=202.89' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.44 cfs @ 2.43 fps)**Summary for Pond DE17: DRIP #17**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 7.85" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,282 cf
 Outflow = 0.36 cfs @ 12.11 hrs, Volume= 1,117 cf, Atten= 5%, Lag= 1.5 min
 Discarded = 0.00 cfs @ 5.00 hrs, Volume= 78 cf
 Primary = 0.36 cfs @ 12.11 hrs, Volume= 1,039 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.09' @ 12.11 hrs Surf.Area= 267 sf Storage= 214 cf

Plug-Flow detention time= 94.7 min calculated for 1,114 cf (87% of inflow)

Center-of-Mass det. time= 37.6 min (809.5 - 771.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	203.09'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
203.09	267	0.0	0	0
203.10	267	40.0	1	1
206.09	267	40.0	319	320
206.10	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	206.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	204.60'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 204.60' / 204.55' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	203.09'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 5.00 hrs HW=203.12' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.35 cfs @ 12.11 hrs HW=205.09' TW=200.20' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.35 cfs @ 2.28 fps)**Summary for Pond DE18: DRIP #18**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 7.97" for 100YR event
 Inflow = 0.53 cfs @ 12.09 hrs, Volume= 1,820 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,619 cf, Atten= 8%, Lag= 2.1 min
 Discarded = 0.00 cfs @ 3.65 hrs, Volume= 96 cf
 Primary = 0.48 cfs @ 12.12 hrs, Volume= 1,523 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 206.94' @ 12.12 hrs Surf.Area= 323 sf Storage= 277 cf

Plug-Flow detention time= 88.2 min calculated for 1,619 cf (89% of inflow)

Center-of-Mass det. time= 35.9 min (804.7 - 768.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	204.79'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.79	323	0.0	0	0
204.80	323	40.0	1	1
207.79	323	40.0	386	388
207.80	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	207.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 206.30' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 206.30' / 206.25' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 204.79' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.65 hrs HW=204.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.47 cfs @ 12.12 hrs HW=206.92' TW=200.21' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.47 cfs @ 2.48 fps)**Summary for Pond DE19: DRIP #19**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 7.97" for 100YR event
 Inflow = 0.47 cfs @ 12.09 hrs, Volume= 1,616 cf
 Outflow = 0.44 cfs @ 12.12 hrs, Volume= 1,436 cf, Atten= 6%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.50 hrs, Volume= 86 cf
 Primary = 0.44 cfs @ 12.12 hrs, Volume= 1,350 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.68' @ 12.12 hrs Surf.Area= 290 sf Storage= 242 cf

Plug-Flow detention time= 87.8 min calculated for 1,433 cf (89% of inflow)

Center-of-Mass det. time= 35.9 min (804.6 - 768.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.59	290	0.0	0	0
205.60	290	40.0	1	1
208.59	290	40.0	347	348
208.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	208.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.10' / 207.05' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.50 hrs HW=205.62' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.43 cfs @ 12.12 hrs HW=207.67' TW=200.20' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.43 cfs @ 2.42 fps)

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Summary for Pond DE2: DRIP #2

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 8.09" for 100YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,295 cf
 Outflow = 0.35 cfs @ 12.11 hrs, Volume= 1,150 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 3.60 hrs, Volume= 87 cf
 Primary = 0.35 cfs @ 12.11 hrs, Volume= 1,064 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 223.49' @ 12.11 hrs Surf.Area= 290 sf Storage= 197 cf

Plug-Flow detention time= 88.4 min calculated for 1,148 cf (89% of inflow)
 Center-of-Mass det. time= 36.3 min (801.8 - 765.4)

Volume	Invert	Avail.Storage	Storage Description	
#1	221.79'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
221.79	290	0.0	0	0
221.80	290	40.0	1	1
224.79	290	40.0	347	348
224.80	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	224.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	223.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 223.00' / 222.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	221.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.60 hrs HW=221.80' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.34 cfs @ 12.11 hrs HW=223.48' TW=218.04' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.27 fps)

Summary for Pond DE20: DRIP #20

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 7.85" for 100YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,256 cf
 Outflow = 0.35 cfs @ 12.11 hrs, Volume= 1,077 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.25 hrs, Volume= 84 cf
 Primary = 0.35 cfs @ 12.11 hrs, Volume= 992 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 208.28' @ 12.11 hrs Surf.Area= 290 sf Storage= 231 cf

Plug-Flow detention time= 100.7 min calculated for 1,074 cf (86% of inflow)

Center-of-Mass det. time= 39.8 min (811.7 - 771.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.29'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.29	290	0.0	0	0
206.30	290	40.0	1	1
209.29	290	40.0	347	348
209.30	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	209.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.80' / 207.75' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.25 hrs HW=206.30' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.34 cfs @ 12.11 hrs HW=208.28' TW=200.20' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.34 cfs @ 2.26 fps)**Summary for Pond DE21: DRIP #21**

Inflow Area = 1,961 sf, 86.33% Impervious, Inflow Depth > 7.97" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,302 cf
 Outflow = 0.36 cfs @ 12.11 hrs, Volume= 1,136 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 4.70 hrs, Volume= 79 cf
 Primary = 0.36 cfs @ 12.11 hrs, Volume= 1,057 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.70' @ 12.11 hrs Surf.Area= 268 sf Storage= 215 cf

Plug-Flow detention time= 95.9 min calculated for 1,136 cf (87% of inflow)

Center-of-Mass det. time= 38.4 min (807.1 - 768.8)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.69'	324 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.69	268	0.0	0	0
206.70	268	40.0	1	1
209.69	268	40.0	321	322
209.70	268	100.0	3	324

Device	Routing	Invert	Outlet Devices
#1	Primary	209.60'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.20'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.20' / 208.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.69'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.70 hrs HW=206.72' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.35 cfs @ 12.11 hrs HW=208.69' TW=200.20' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.35 cfs @ 2.28 fps)**Summary for Pond DE22: DRIP #22**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,255 cf
 Outflow = 0.56 cfs @ 12.13 hrs, Volume= 2,023 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 117 cf
 Primary = 0.56 cfs @ 12.13 hrs, Volume= 1,906 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.74' @ 12.13 hrs Surf.Area= 373 sf Storage= 336 cf

Plug-Flow detention time= 90.2 min calculated for 2,023 cf (90% of inflow)

Center-of-Mass det. time= 39.7 min (793.7 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.49'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.49	373	0.0	0	0
207.50	373	40.0	1	1
210.49	373	40.0	446	448
210.50	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 209.00' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 207.49' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=207.52' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.55 cfs @ 12.13 hrs HW=209.73' TW=200.21' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.55 cfs @ 2.80 fps)**Summary for Pond DE23: DRIP #23**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,475 cf, Atten= 4%, Lag= 1.5 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 85 cf
 Primary = 0.44 cfs @ 12.11 hrs, Volume= 1,390 cf
 Routed to Reach 9R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.04' @ 12.11 hrs Surf.Area= 271 sf Storage= 223 cf

Plug-Flow detention time= 88.2 min calculated for 1,472 cf (90% of inflow)

Center-of-Mass det. time= 38.6 min (792.7 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	271	0.0	0	0
208.00	271	40.0	1	1
210.99	271	40.0	324	325
211.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.50'	6.0" Round Culvert L= 10.0' Ke= 0.200 Inlet / Outlet Invert= 209.50' / 209.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=208.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.43 cfs @ 12.11 hrs HW=210.03' TW=200.20' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.43 cfs @ 2.56 fps)

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Summary for Pond DE24: DRIP #24

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,665 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 101 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,564 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 211.25' @ 12.12 hrs Surf.Area= 323 sf Storage= 344 cf

Plug-Flow detention time= 107.8 min calculated for 1,665 cf (86% of inflow)
 Center-of-Mass det. time= 46.7 min (800.8 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.59'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.59	323	0.0	0	0
208.60	323	40.0	1	1
211.59	323	40.0	386	388
211.60	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.60'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.60' / 210.55' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=208.62' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.48 cfs @ 12.12 hrs HW=211.24' TW=202.09' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.48 cfs @ 2.50 fps)

Summary for Pond DE25: DRIP #25

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,730 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 2.35 hrs, Volume= 101 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,628 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 211.45' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,726 cf (89% of inflow)

Center-of-Mass det. time= 39.5 min (793.6 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	209.29'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.29	323	0.0	0	0
209.30	323	40.0	1	1
212.29	323	40.0	386	388
212.30	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	212.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.80' / 210.75' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.35 hrs HW=209.30' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=211.44' TW=202.09' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.48 cfs @ 2.50 fps)**Summary for Pond DE26: DRIP #26**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,475 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 85 cf
 Primary = 0.44 cfs @ 12.11 hrs, Volume= 1,390 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.07' @ 12.11 hrs Surf.Area= 271 sf Storage= 226 cf

Plug-Flow detention time= 88.3 min calculated for 1,472 cf (90% of inflow)

Center-of-Mass det. time= 38.8 min (792.8 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.43 cfs @ 12.11 hrs HW=212.06' TW=202.09' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.43 cfs @ 2.41 fps)**Summary for Pond DE27: DRIP #27**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf
 Outflow = 0.45 cfs @ 12.12 hrs, Volume= 1,650 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 2.80 hrs, Volume= 91 cf
 Primary = 0.45 cfs @ 12.12 hrs, Volume= 1,559 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.69' @ 12.12 hrs Surf.Area= 290 sf Storage= 128 cf

Plug-Flow detention time= 42.7 min calculated for 1,647 cf (96% of inflow)

Center-of-Mass det. time= 20.5 min (774.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	211.59'	235 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	290	0.0	0	0
211.60	290	40.0	1	1
213.59	290	40.0	231	232
213.60	290	100.0	3	235

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 212.10' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 211.59' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.80 hrs HW=211.61' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.44 cfs @ 12.12 hrs HW=212.68' TW=202.09' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.44 cfs @ 2.43 fps)**Summary for Pond DE28: DRIP #28**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf
 Outflow = 0.45 cfs @ 12.12 hrs, Volume= 1,534 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 3.10 hrs, Volume= 91 cf
 Primary = 0.45 cfs @ 12.12 hrs, Volume= 1,443 cf
 Routed to Reach 4R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.59' @ 12.12 hrs Surf.Area= 290 sf Storage= 244 cf

Plug-Flow detention time= 90.6 min calculated for 1,534 cf (89% of inflow)

Center-of-Mass det. time= 39.5 min (793.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.49	290	0.0	0	0
211.50	290	40.0	1	1
214.49	290	40.0	347	348
214.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	214.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.10 hrs HW=211.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.44 cfs @ 12.12 hrs HW=213.58' TW=202.09' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.44 cfs @ 2.43 fps)

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Summary for Pond DE29: DRIP #29

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,540 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 85 cf
 Primary = 0.44 cfs @ 12.11 hrs, Volume= 1,455 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.57' @ 12.11 hrs Surf.Area= 271 sf Storage= 161 cf

Plug-Flow detention time= 63.3 min calculated for 1,540 cf (94% of inflow)
 Center-of-Mass det. time= 28.4 min (782.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.09'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.09	271	0.0	0	0
212.10	271	40.0	1	1
215.09	271	40.0	324	325
215.10	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	215.00'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.00' / 212.95' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.09'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=212.12' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.43 cfs @ 12.11 hrs HW=213.56' TW=204.04' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.43 cfs @ 2.41 fps)

Summary for Pond DE3: DRIP #3

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,451 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 2.65 hrs, Volume= 84 cf
 Primary = 0.43 cfs @ 12.11 hrs, Volume= 1,368 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 222.87' @ 12.11 hrs Surf.Area= 271 sf Storage= 226 cf

Plug-Flow detention time= 88.2 min calculated for 1,451 cf (90% of inflow)

Center-of-Mass det. time= 37.7 min (795.8 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1	220.79'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
220.79	271	0.0	0	0
220.80	271	40.0	1	1
223.79	271	40.0	324	325
223.80	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	223.70'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	222.30'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 222.30' / 222.25' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	220.79'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.65 hrs HW=220.80' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.42 cfs @ 12.11 hrs HW=222.86' TW=218.04' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.42 cfs @ 2.41 fps)**Summary for Pond DE30: DRIP #30**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,788 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 101 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,686 cf
 Routed to Reach 8r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.90' @ 12.12 hrs Surf.Area= 323 sf Storage= 221 cf

Plug-Flow detention time= 71.0 min calculated for 1,784 cf (92% of inflow)

Center-of-Mass det. time= 31.9 min (786.0 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	212.19'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	323	0.0	0	0
212.20	323	40.0	1	1
215.19	323	40.0	386	388
215.20	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	215.10'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.25'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.25' / 213.20' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=212.22' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=213.89' TW=204.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.48 cfs @ 2.50 fps)**Summary for Pond DE31: DRIP #31**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,730 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 101 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,628 cf
 Routed to Reach 8R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.15' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,726 cf (89% of inflow)

Center-of-Mass det. time= 39.5 min (793.6 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 213.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 211.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=212.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=214.14' TW=204.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.48 cfs @ 2.50 fps)**Summary for Pond DE32: DRIP #32**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,475 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 2.30 hrs, Volume= 85 cf
 Primary = 0.44 cfs @ 12.11 hrs, Volume= 1,390 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.47' @ 12.11 hrs Surf.Area= 271 sf Storage= 226 cf

Plug-Flow detention time= 89.0 min calculated for 1,475 cf (90% of inflow)

Center-of-Mass det. time= 38.8 min (792.8 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.39'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.39	271	0.0	0	0
211.40	271	40.0	1	1
214.39	271	40.0	324	325
214.40	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.30'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.90'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.90' / 212.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.39'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.30 hrs HW=211.40' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.43 cfs @ 12.11 hrs HW=213.46' TW=207.11' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.43 cfs @ 2.41 fps)

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Summary for Pond DE33: DRIP #33

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,334 cf
 Outflow = 0.36 cfs @ 12.11 hrs, Volume= 1,154 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 3.85 hrs, Volume= 89 cf
 Primary = 0.36 cfs @ 12.11 hrs, Volume= 1,065 cf
 Routed to Reach 14R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 212.59' @ 12.11 hrs Surf.Area= 290 sf Storage= 232 cf

Plug-Flow detention time= 103.3 min calculated for 1,154 cf (87% of inflow)
 Center-of-Mass det. time= 43.3 min (801.4 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.59'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.59	290	0.0	0	0
210.60	290	40.0	1	1
213.59	290	40.0	347	348
213.60	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.10' / 212.05' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.85 hrs HW=210.62' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.35 cfs @ 12.11 hrs HW=212.58' TW=207.11' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.35 cfs @ 2.28 fps)

Summary for Pond DE34: DRIP #34

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.81 cfs @ 12.09 hrs, Volume= 2,886 cf
 Outflow = 0.72 cfs @ 12.13 hrs, Volume= 2,646 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 2.15 hrs, Volume= 121 cf
 Primary = 0.72 cfs @ 12.13 hrs, Volume= 2,526 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 212.73' @ 12.13 hrs Surf.Area= 383 sf Storage= 374 cf

Plug-Flow detention time= 77.8 min calculated for 2,641 cf (91% of inflow)

Center-of-Mass det. time= 35.1 min (789.2 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	210.29'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.29	383	0.0	0	0
210.30	383	40.0	2	2
213.29	383	40.0	458	460
213.30	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	213.20'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.80'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.80' / 211.75' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.29'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.15 hrs HW=210.30' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.71 cfs @ 12.13 hrs HW=212.71' TW=204.05' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.71 cfs @ 3.60 fps)**Summary for Pond DE35: DRIP #35**

Inflow Area = 4,098 sf, 90.65% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.81 cfs @ 12.09 hrs, Volume= 2,886 cf
 Outflow = 0.72 cfs @ 12.13 hrs, Volume= 2,646 cf, Atten= 11%, Lag= 2.5 min
 Discarded = 0.00 cfs @ 2.80 hrs, Volume= 121 cf
 Primary = 0.72 cfs @ 12.13 hrs, Volume= 2,526 cf
 Routed to Reach 7R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 211.43' @ 12.13 hrs Surf.Area= 383 sf Storage= 374 cf

Plug-Flow detention time= 77.8 min calculated for 2,641 cf (91% of inflow)

Center-of-Mass det. time= 35.1 min (789.2 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	208.99'	463 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	383	0.0	0	0
209.00	383	40.0	2	2
211.99	383	40.0	458	460
212.00	383	100.0	4	463

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.80 hrs HW=209.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.71 cfs @ 12.13 hrs HW=211.41' TW=204.05' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.71 cfs @ 3.60 fps)**Summary for Pond DE36: DRIP #36**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,255 cf
 Outflow = 0.56 cfs @ 12.13 hrs, Volume= 2,097 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 117 cf
 Primary = 0.56 cfs @ 12.13 hrs, Volume= 1,980 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.74' @ 12.13 hrs Surf.Area= 373 sf Storage= 262 cf

Plug-Flow detention time= 68.7 min calculated for 2,093 cf (93% of inflow)

Center-of-Mass det. time= 31.2 min (785.3 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	206.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	373	0.0	0	0
207.00	373	40.0	1	1
209.99	373	40.0	446	448
210.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.00' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 208.00' / 207.95' S= 0.0050 '/ Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 206.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=207.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.55 cfs @ 12.13 hrs HW=208.73' TW=201.69' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.55 cfs @ 2.80 fps)**Summary for Pond DE37: DRIP #37**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,223 cf
 Outflow = 0.56 cfs @ 12.13 hrs, Volume= 2,065 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 116 cf
 Primary = 0.56 cfs @ 12.13 hrs, Volume= 1,950 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.74' @ 12.13 hrs Surf.Area= 373 sf Storage= 261 cf

Plug-Flow detention time= 68.7 min calculated for 2,065 cf (93% of inflow)

Center-of-Mass det. time= 30.4 min (788.5 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	373	0.0	0	0
208.00	373	40.0	1	1
210.99	373	40.0	446	448
211.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	209.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 209.00' / 208.95' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=208.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.55 cfs @ 12.13 hrs HW=209.73' TW=201.69' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.55 cfs @ 2.79 fps)

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Summary for Pond DE38: DRIP #39

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,702 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 100 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,602 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 211.15' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,702 cf (89% of inflow)
 Center-of-Mass det. time= 38.4 min (796.5 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	208.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.99	323	0.0	0	0
209.00	323	40.0	1	1
211.99	323	40.0	386	388
212.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	211.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	210.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 210.50' / 210.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	208.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=209.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.48 cfs @ 12.12 hrs HW=211.14' TW=201.61' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.48 cfs @ 2.49 fps)

Summary for Pond DE39: DRIP #39

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,451 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 84 cf
 Primary = 0.43 cfs @ 12.11 hrs, Volume= 1,368 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 212.07' @ 12.11 hrs Surf.Area= 271 sf Storage= 226 cf

Plug-Flow detention time= 88.2 min calculated for 1,451 cf (90% of inflow)

Center-of-Mass det. time= 37.7 min (795.8 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	209.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.99	271	0.0	0	0
210.00	271	40.0	1	1
212.99	271	40.0	324	325
213.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	212.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	211.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 211.50' / 211.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	209.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=210.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.42 cfs @ 12.11 hrs HW=212.06' TW=201.53' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.42 cfs @ 2.41 fps)**Summary for Pond DE4: DRIP #4**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,702 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 100 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,602 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 221.15' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,702 cf (89% of inflow)

Center-of-Mass det. time= 38.4 min (796.5 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	218.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.99	323	0.0	0	0
219.00	323	40.0	1	1
221.99	323	40.0	386	388
222.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	221.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	220.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 220.50' / 220.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	218.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=219.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=221.14' TW=218.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.48 cfs @ 2.49 fps)**Summary for Pond DE40: DRIP #40**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,702 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 100 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,602 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.15' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,702 cf (89% of inflow)

Center-of-Mass det. time= 38.4 min (796.5 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1	210.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.99	323	0.0	0	0
211.00	323	40.0	1	1
213.99	323	40.0	386	388
214.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	213.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 212.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 212.50' / 212.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 210.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=211.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=213.14' TW=201.61' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.48 cfs @ 2.49 fps)**Summary for Pond DE41: DRIP #41**

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,903 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,702 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 100 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,602 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 214.15' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,702 cf (89% of inflow)

Center-of-Mass det. time= 38.4 min (796.5 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1	211.99'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.99	323	0.0	0	0
212.00	323	40.0	1	1
214.99	323	40.0	386	388
215.00	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.50' / 213.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=212.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=214.14' TW=201.61' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.48 cfs @ 2.49 fps)

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Summary for Pond DE42: DRIP #42

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf
 Outflow = 0.37 cfs @ 12.11 hrs, Volume= 1,176 cf, Atten= 4%, Lag= 1.5 min
 Discarded = 0.00 cfs @ 4.00 hrs, Volume= 81 cf
 Primary = 0.37 cfs @ 12.11 hrs, Volume= 1,095 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 215.00' @ 12.11 hrs Surf.Area= 267 sf Storage= 215 cf

Plug-Flow detention time= 96.5 min calculated for 1,176 cf (88% of inflow)
 Center-of-Mass det. time= 39.9 min (801.8 - 761.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.00 hrs HW=213.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.36 cfs @ 12.11 hrs HW=214.99' TW=201.52' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.36 cfs @ 2.29 fps)

Summary for Pond DE43: DRIP #43

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf
 Outflow = 0.37 cfs @ 12.11 hrs, Volume= 1,176 cf, Atten= 4%, Lag= 1.5 min
 Discarded = 0.00 cfs @ 4.00 hrs, Volume= 81 cf
 Primary = 0.37 cfs @ 12.11 hrs, Volume= 1,095 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 216.00' @ 12.11 hrs Surf.Area= 267 sf Storage= 215 cf

Plug-Flow detention time= 96.5 min calculated for 1,176 cf (88% of inflow)

Center-of-Mass det. time= 39.9 min (801.8 - 761.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	213.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.99	267	0.0	0	0
214.00	267	40.0	1	1
216.99	267	40.0	319	320
217.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	216.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	215.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 215.50' / 215.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	213.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.00 hrs HW=214.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.36 cfs @ 12.11 hrs HW=215.99' TW=201.52' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.36 cfs @ 2.29 fps)**Summary for Pond DE44: DRIP #44**

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf
 Outflow = 0.37 cfs @ 12.11 hrs, Volume= 1,176 cf, Atten= 4%, Lag= 1.5 min
 Discarded = 0.00 cfs @ 4.00 hrs, Volume= 81 cf
 Primary = 0.37 cfs @ 12.11 hrs, Volume= 1,095 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.00' @ 12.11 hrs Surf.Area= 267 sf Storage= 215 cf

Plug-Flow detention time= 96.5 min calculated for 1,176 cf (88% of inflow)

Center-of-Mass det. time= 39.9 min (801.8 - 761.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	215.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
215.99	267	0.0	0	0
216.00	267	40.0	1	1
218.99	267	40.0	319	320
219.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	218.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	217.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 217.50' / 217.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	215.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.00 hrs HW=216.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.36 cfs @ 12.11 hrs HW=217.99' TW=201.52' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.36 cfs @ 2.29 fps)**Summary for Pond DE45: DRIP #45**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,451 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 84 cf
 Primary = 0.43 cfs @ 12.11 hrs, Volume= 1,368 cf
 Routed to Pond P205 : POCKET WETLAND #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 219.07' @ 12.11 hrs Surf.Area= 271 sf Storage= 226 cf

Plug-Flow detention time= 88.2 min calculated for 1,451 cf (90% of inflow)

Center-of-Mass det. time= 37.7 min (795.8 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1	216.99'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	271	0.0	0	0
217.00	271	40.0	1	1
219.99	271	40.0	324	325
220.00	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 218.50' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 218.50' / 218.45' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 216.99' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=217.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.42 cfs @ 12.11 hrs HW=219.06' TW=201.53' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.42 cfs @ 2.41 fps)**Summary for Pond DE47: DRIP #47**

Inflow Area = 3,202 sf, 88.35% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.63 cfs @ 12.09 hrs, Volume= 2,223 cf
 Outflow = 0.56 cfs @ 12.13 hrs, Volume= 2,065 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 116 cf
 Primary = 0.56 cfs @ 12.13 hrs, Volume= 1,950 cf
 Routed to Reach 16R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 218.74' @ 12.13 hrs Surf.Area= 373 sf Storage= 261 cf

Plug-Flow detention time= 68.7 min calculated for 2,065 cf (93% of inflow)

Center-of-Mass det. time= 30.4 min (788.5 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	216.99'	451 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
216.99	373	0.0	0	0
217.00	373	40.0	1	1
219.99	373	40.0	446	448
220.00	373	100.0	4	451

Device	Routing	Invert	Outlet Devices
#1	Primary	219.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	218.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 218.00' / 217.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	216.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=217.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.55 cfs @ 12.13 hrs HW=218.73' TW=216.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.55 cfs @ 2.79 fps)

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Summary for Pond DE48: DRIP #48

Inflow Area = 1,921 sf, 84.90% Impervious, Inflow Depth > 8.09" for 100YR event
 Inflow = 0.37 cfs @ 12.09 hrs, Volume= 1,295 cf
 Outflow = 0.35 cfs @ 12.11 hrs, Volume= 1,115 cf, Atten= 5%, Lag= 1.7 min
 Discarded = 0.00 cfs @ 4.55 hrs, Volume= 87 cf
 Primary = 0.35 cfs @ 12.11 hrs, Volume= 1,029 cf
 Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 216.99' @ 12.11 hrs Surf.Area= 290 sf Storage= 232 cf

Plug-Flow detention time= 101.3 min calculated for 1,113 cf (86% of inflow)
 Center-of-Mass det. time= 41.3 min (806.7 - 765.4)

Volume	Invert	Avail.Storage	Storage Description	
#1	214.99'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
214.99	290	0.0	0	0
215.00	290	40.0	1	1
217.99	290	40.0	347	348
218.00	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	217.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	216.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 216.50' / 216.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	214.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.55 hrs HW=215.02' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.34 cfs @ 12.11 hrs HW=216.98' TW=208.63' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.34 cfs @ 2.27 fps)

Summary for Pond DE49: DRIP #49

Inflow Area = 1,961 sf, 86.38% Impervious, Inflow Depth > 8.21" for 100YR event
 Inflow = 0.38 cfs @ 12.09 hrs, Volume= 1,342 cf
 Outflow = 0.37 cfs @ 12.11 hrs, Volume= 1,176 cf, Atten= 4%, Lag= 1.5 min
 Discarded = 0.00 cfs @ 4.00 hrs, Volume= 81 cf
 Primary = 0.37 cfs @ 12.11 hrs, Volume= 1,095 cf
 Routed to Reach SC2 : Stream Crossing #2

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 215.00' @ 12.11 hrs Surf.Area= 267 sf Storage= 215 cf

Plug-Flow detention time= 96.5 min calculated for 1,176 cf (88% of inflow)

Center-of-Mass det. time= 39.9 min (801.8 - 761.9)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.99'	323 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.99	267	0.0	0	0
213.00	267	40.0	1	1
215.99	267	40.0	319	320
216.00	267	100.0	3	323

Device	Routing	Invert	Outlet Devices
#1	Primary	215.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	214.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 214.50' / 214.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 4.00 hrs HW=213.02' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.36 cfs @ 12.11 hrs HW=214.99' TW=208.63' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.36 cfs @ 2.29 fps)**Summary for Pond DE5: DRIP #5**

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,620 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,451 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.45 hrs, Volume= 84 cf
 Primary = 0.43 cfs @ 12.11 hrs, Volume= 1,368 cf
 Routed to Reach 1R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 220.67' @ 12.11 hrs Surf.Area= 271 sf Storage= 226 cf

Plug-Flow detention time= 88.2 min calculated for 1,451 cf (90% of inflow)

Center-of-Mass det. time= 37.7 min (795.8 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	218.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
218.59	271	0.0	0	0
218.60	271	40.0	1	1
221.59	271	40.0	324	325
221.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	221.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	220.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 220.10' / 220.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	218.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.45 hrs HW=218.62' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.42 cfs @ 12.11 hrs HW=220.66' TW=218.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.42 cfs @ 2.41 fps)**Summary for Pond DE61: DRIP #61**

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 4,114 cf
 Outflow = 0.92 cfs @ 12.15 hrs, Volume= 3,961 cf, Atten= 21%, Lag= 4.0 min
 Discarded = 0.00 cfs @ 3.10 hrs, Volume= 206 cf
 Primary = 0.92 cfs @ 12.15 hrs, Volume= 3,755 cf
 Routed to Pond P210 : POCKET WETLAND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.93' @ 12.15 hrs Surf.Area= 665 sf Storage= 462 cf

Plug-Flow detention time= 44.3 min calculated for 3,953 cf (96% of inflow)

Center-of-Mass det. time= 22.2 min (780.3 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 212.70' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf

#3 Discarded 212.19' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.10 hrs HW=212.21' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.91 cfs @ 12.15 hrs HW=213.92' TW=205.23' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.91 cfs @ 4.65 fps)**Summary for Pond DE62: DRIP #62**

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 8.33" for 100YR event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 4,114 cf
 Outflow = 0.92 cfs @ 12.15 hrs, Volume= 3,961 cf, Atten= 21%, Lag= 4.0 min
 Discarded = 0.00 cfs @ 3.10 hrs, Volume= 206 cf
 Primary = 0.92 cfs @ 12.15 hrs, Volume= 3,755 cf
 Routed to Reach 13R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 213.93' @ 12.15 hrs Surf.Area= 665 sf Storage= 462 cf

Plug-Flow detention time= 44.3 min calculated for 3,953 cf (96% of inflow)

Center-of-Mass det. time= 22.2 min (780.3 - 758.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	212.19'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
212.19	665	0.0	0	0
212.20	665	40.0	3	3
214.19	665	40.0	529	532
214.20	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	214.10'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.70'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.70' / 212.65' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	212.19'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.10 hrs HW=212.21' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.91 cfs @ 12.15 hrs HW=213.92' TW=206.04' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.91 cfs @ 4.65 fps)

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Summary for Pond DE63: DRIP #63

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.68 cfs @ 12.09 hrs, Volume= 2,410 cf
 Outflow = 0.60 cfs @ 12.13 hrs, Volume= 2,320 cf, Atten= 11%, Lag= 2.7 min
 Discarded = 0.00 cfs @ 2.80 hrs, Volume= 127 cf
 Primary = 0.60 cfs @ 12.13 hrs, Volume= 2,193 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 208.28' @ 12.13 hrs Surf.Area= 404 sf Storage= 208 cf

Plug-Flow detention time= 43.7 min calculated for 2,315 cf (96% of inflow)
 Center-of-Mass det. time= 21.3 min (775.4 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	404	0.0	0	0
207.00	404	40.0	2	2
208.99	404	40.0	322	323
209.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 207.45' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.80 hrs HW=207.01' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.59 cfs @ 12.13 hrs HW=208.27' TW=202.18' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.59 cfs @ 2.98 fps)

Summary for Pond DE64: DRIP #64

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf
 Outflow = 0.73 cfs @ 12.14 hrs, Volume= 2,893 cf, Atten= 13%, Lag= 2.9 min
 Discarded = 0.00 cfs @ 2.75 hrs, Volume= 148 cf
 Primary = 0.73 cfs @ 12.14 hrs, Volume= 2,745 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.44' @ 12.14 hrs Surf.Area= 470 sf Storage= 272 cf

Plug-Flow detention time= 42.3 min calculated for 2,887 cf (96% of inflow)

Center-of-Mass det. time= 21.0 min (775.1 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	204.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
204.99	470	0.0	0	0
205.00	470	40.0	2	2
206.99	470	40.0	374	376
207.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	206.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	205.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 205.50' / 205.45' S= 0.0050 ' / Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	204.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.75 hrs HW=205.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.72 cfs @ 12.14 hrs HW=206.42' TW=202.18' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.72 cfs @ 3.65 fps)**Summary for Pond DE65: DRIP #65**

Inflow Area = 3,422 sf, 88.19% Impervious, Inflow Depth > 8.45" for 100YR event

Inflow = 0.68 cfs @ 12.09 hrs, Volume= 2,410 cf

Outflow = 0.60 cfs @ 12.13 hrs, Volume= 2,320 cf, Atten= 11%, Lag= 2.7 min

Discarded = 0.00 cfs @ 2.80 hrs, Volume= 127 cf

Primary = 0.60 cfs @ 12.13 hrs, Volume= 2,193 cf

Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.28' @ 12.13 hrs Surf.Area= 404 sf Storage= 208 cf

Plug-Flow detention time= 43.7 min calculated for 2,315 cf (96% of inflow)

Center-of-Mass det. time= 21.3 min (775.4 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.99'	327 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.99	404	0.0	0	0
206.00	404	40.0	2	2
207.99	404	40.0	322	323
208.00	404	100.0	4	327

Device	Routing	Invert	Outlet Devices
#1	Primary	207.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.50' / 206.45' S= 0.0050 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.80 hrs HW=206.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.59 cfs @ 12.13 hrs HW=207.27' TW=202.18' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.59 cfs @ 2.98 fps)**Summary for Pond DE66: DRIP #66**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf
 Outflow = 0.73 cfs @ 12.14 hrs, Volume= 2,893 cf, Atten= 13%, Lag= 2.9 min
 Discarded = 0.00 cfs @ 2.30 hrs, Volume= 148 cf
 Primary = 0.73 cfs @ 12.14 hrs, Volume= 2,745 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.24' @ 12.14 hrs Surf.Area= 470 sf Storage= 272 cf

Plug-Flow detention time= 42.3 min calculated for 2,887 cf (96% of inflow)

Center-of-Mass det. time= 21.0 min (775.1 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.79'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.79	470	0.0	0	0
207.80	470	40.0	2	2
209.79	470	40.0	374	376
209.80	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.70'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 208.30' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 208.30' / 208.25' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 207.79' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.30 hrs HW=207.80' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.72 cfs @ 12.14 hrs HW=209.22' TW=202.18' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.72 cfs @ 3.65 fps)**Summary for Pond DE67: DRIP #67**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf
 Outflow = 0.73 cfs @ 12.14 hrs, Volume= 2,893 cf, Atten= 13%, Lag= 2.9 min
 Discarded = 0.00 cfs @ 2.75 hrs, Volume= 148 cf
 Primary = 0.73 cfs @ 12.14 hrs, Volume= 2,745 cf
 Routed to Reach 12R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 209.44' @ 12.14 hrs Surf.Area= 470 sf Storage= 272 cf

Plug-Flow detention time= 42.3 min calculated for 2,887 cf (96% of inflow)

Center-of-Mass det. time= 21.0 min (775.1 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	207.99'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	470	0.0	0	0
208.00	470	40.0	2	2
209.99	470	40.0	374	376
210.00	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	209.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.50'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 208.45' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	207.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.75 hrs HW=208.01' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.72 cfs @ 12.14 hrs HW=209.42' TW=202.18' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.72 cfs @ 3.65 fps)

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Summary for Pond DE68: DRIP #68

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 4,174 cf
 Outflow = 0.90 cfs @ 12.16 hrs, Volume= 4,025 cf, Atten= 23%, Lag= 4.3 min
 Discarded = 0.00 cfs @ 2.75 hrs, Volume= 209 cf
 Primary = 0.89 cfs @ 12.16 hrs, Volume= 3,816 cf
 Routed to Pond OCS4 : OCS#4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 208.65' @ 12.16 hrs Surf.Area= 665 sf Storage= 440 cf

Plug-Flow detention time= 43.1 min calculated for 4,025 cf (96% of inflow)
 Center-of-Mass det. time= 21.4 min (775.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	206.99'	539 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.99	665	0.0	0	0
207.00	665	40.0	3	3
208.99	665	40.0	529	532
209.00	665	100.0	7	539

Device	Routing	Invert	Outlet Devices
#1	Primary	208.90'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.50'	6.0" Round Culvert L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 207.50' / 206.00' S= 0.0750 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.99'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.75 hrs HW=207.01' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.89 cfs @ 12.16 hrs HW=208.63' TW=205.78' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Inlet Controls 0.89 cfs @ 4.53 fps)

Summary for Pond DE69: DRIP #69

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf
 Outflow = 0.73 cfs @ 12.14 hrs, Volume= 2,893 cf, Atten= 13%, Lag= 2.9 min
 Discarded = 0.00 cfs @ 2.75 hrs, Volume= 148 cf
 Primary = 0.73 cfs @ 12.14 hrs, Volume= 2,745 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.94' @ 12.14 hrs Surf.Area= 470 sf Storage= 272 cf

Plug-Flow detention time= 42.3 min calculated for 2,887 cf (96% of inflow)

Center-of-Mass det. time= 21.0 min (775.1 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	205.49'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.49	470	0.0	0	0
205.50	470	40.0	2	2
207.49	470	40.0	374	376
207.50	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	206.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 206.00' / 205.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	205.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.75 hrs HW=205.51' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.72 cfs @ 12.14 hrs HW=206.92' TW=202.95' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.72 cfs @ 3.65 fps)**Summary for Pond DE7: DRIP #7**

Inflow Area = 2,434 sf, 88.09% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.48 cfs @ 12.09 hrs, Volume= 1,714 cf
 Outflow = 0.45 cfs @ 12.12 hrs, Volume= 1,534 cf, Atten= 6%, Lag= 1.8 min
 Discarded = 0.00 cfs @ 3.10 hrs, Volume= 91 cf
 Primary = 0.45 cfs @ 12.12 hrs, Volume= 1,443 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 212.59' @ 12.12 hrs Surf.Area= 290 sf Storage= 244 cf

Plug-Flow detention time= 90.6 min calculated for 1,534 cf (89% of inflow)

Center-of-Mass det. time= 39.5 min (793.5 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	210.49'	351 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
210.49	290	0.0	0	0
210.50	290	40.0	1	1
213.49	290	40.0	347	348
213.50	290	100.0	3	351

Device	Routing	Invert	Outlet Devices
#1	Primary	213.40'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	212.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 212.00' / 211.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	210.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.10 hrs HW=210.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.44 cfs @ 12.12 hrs HW=212.58' TW=211.57' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.44 cfs @ 2.43 fps)**Summary for Pond DE70: DRIP #70**

Inflow Area = 4,259 sf, 88.96% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.84 cfs @ 12.09 hrs, Volume= 3,000 cf
 Outflow = 0.73 cfs @ 12.14 hrs, Volume= 2,893 cf, Atten= 13%, Lag= 2.9 min
 Discarded = 0.00 cfs @ 2.30 hrs, Volume= 148 cf
 Primary = 0.73 cfs @ 12.14 hrs, Volume= 2,745 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 207.34' @ 12.14 hrs Surf.Area= 470 sf Storage= 272 cf

Plug-Flow detention time= 42.3 min calculated for 2,887 cf (96% of inflow)

Center-of-Mass det. time= 21.0 min (775.1 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	205.89'	381 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
205.89	470	0.0	0	0
205.90	470	40.0	2	2
207.89	470	40.0	374	376
207.90	470	100.0	5	381

Device	Routing	Invert	Outlet Devices
#1	Primary	207.80'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

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#2 Primary 206.40' **6.0" Round Culvert** L= 10.0' Ke= 0.500
 Inlet / Outlet Invert= 206.40' / 206.35' S= 0.0050 '/' Cc= 0.900
 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
 #3 Discarded 205.89' **0.170 in/hr Exfiltration over Surface area** Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.30 hrs HW=205.90' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.72 cfs @ 12.14 hrs HW=207.32' TW=202.95' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.72 cfs @ 3.65 fps)**Summary for Pond DE71: DRIP #71**

Inflow Area = 5,926 sf, 88.78% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 1.17 cfs @ 12.09 hrs, Volume= 4,174 cf
 Outflow = 0.92 cfs @ 12.15 hrs, Volume= 4,021 cf, Atten= 21%, Lag= 4.0 min
 Discarded = 0.00 cfs @ 3.00 hrs, Volume= 209 cf
 Primary = 0.92 cfs @ 12.15 hrs, Volume= 3,812 cf
 Routed to Pond P212 : INFILTRATION POND #1

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 208.23' @ 12.15 hrs Surf.Area= 665 sf Storage= 464 cf

Plug-Flow detention time= 44.9 min calculated for 4,021 cf (96% of inflow)

Center-of-Mass det. time= 22.7 min (776.8 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	206.49'	805 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.49	665	0.0	0	0
206.50	665	40.0	3	3
209.49	665	40.0	795	798
209.50	665	100.0	7	805

Device	Routing	Invert	Outlet Devices
#1	Primary	209.40'	180.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	207.00'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 207.00' / 206.95' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	206.49'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.00 hrs HW=206.52' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.92 cfs @ 12.15 hrs HW=208.23' TW=202.99' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑ **2=Culvert** (Barrel Controls 0.92 cfs @ 4.67 fps)

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Summary for Pond DE8: DRIP #8

Inflow Area = 2,333 sf, 88.38% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.46 cfs @ 12.09 hrs, Volume= 1,643 cf
 Outflow = 0.44 cfs @ 12.11 hrs, Volume= 1,475 cf, Atten= 5%, Lag= 1.6 min
 Discarded = 0.00 cfs @ 3.05 hrs, Volume= 85 cf
 Primary = 0.44 cfs @ 12.11 hrs, Volume= 1,390 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 213.67' @ 12.11 hrs Surf.Area= 271 sf Storage= 226 cf

Plug-Flow detention time= 89.0 min calculated for 1,475 cf (90% of inflow)
 Center-of-Mass det. time= 38.8 min (792.8 - 754.1)

Volume	Invert	Avail.Storage	Storage Description	
#1	211.59'	328 cf	Custom Stage Data (Prismatic) Listed below (Recalc)	
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.59	271	0.0	0	0
211.60	271	40.0	1	1
214.59	271	40.0	324	325
214.60	271	100.0	3	328

Device	Routing	Invert	Outlet Devices
#1	Primary	214.50'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.10'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.10' / 213.05' S= 0.0050 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.59'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 3.05 hrs HW=211.62' (Free Discharge)

↑ **3=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.43 cfs @ 12.11 hrs HW=213.66' TW=211.57' (Dynamic Tailwater)

↑ **1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

↑ **2=Culvert** (Barrel Controls 0.43 cfs @ 2.41 fps)

Summary for Pond DE9: DRIP #9

Inflow Area = 2,741 sf, 88.22% Impervious, Inflow Depth > 8.45" for 100YR event
 Inflow = 0.54 cfs @ 12.09 hrs, Volume= 1,931 cf
 Outflow = 0.49 cfs @ 12.12 hrs, Volume= 1,730 cf, Atten= 9%, Lag= 2.2 min
 Discarded = 0.00 cfs @ 2.35 hrs, Volume= 101 cf
 Primary = 0.49 cfs @ 12.12 hrs, Volume= 1,628 cf
 Routed to Reach 3R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 214.05' @ 12.12 hrs Surf.Area= 323 sf Storage= 279 cf

Plug-Flow detention time= 89.6 min calculated for 1,726 cf (89% of inflow)

Center-of-Mass det. time= 39.5 min (793.6 - 754.1)

Volume	Invert	Avail.Storage	Storage Description
#1	211.89'	391 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
211.89	323	0.0	0	0
211.90	323	40.0	1	1
214.89	323	40.0	386	388
214.90	323	100.0	3	391

Device	Routing	Invert	Outlet Devices
#1	Primary	214.80'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	213.40'	6.0" Round Culvert L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 213.40' / 213.35' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#3	Discarded	211.89'	0.170 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.00 cfs @ 2.35 hrs HW=211.90' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.48 cfs @ 12.12 hrs HW=214.04' TW=211.57' (Dynamic Tailwater)↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)↑**2=Culvert** (Barrel Controls 0.48 cfs @ 2.50 fps)**Summary for Pond DECH: DRIP #CH**

Inflow Area = 6,087 sf, 100.00% Impervious, Inflow Depth > 8.81" for 100YR event
 Inflow = 1.21 cfs @ 12.09 hrs, Volume= 4,471 cf
 Outflow = 1.10 cfs @ 12.20 hrs, Volume= 4,470 cf, Atten= 9%, Lag= 6.7 min
 Discarded = 0.04 cfs @ 8.80 hrs, Volume= 2,092 cf
 Primary = 1.07 cfs @ 12.20 hrs, Volume= 2,379 cf
 Routed to Pond CB18 : CB #18

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 210.92' @ 12.18 hrs Surf.Area= 636 sf Storage= 746 cf

Plug-Flow detention time= 22.8 min calculated for 4,461 cf (100% of inflow)

Center-of-Mass det. time= 22.6 min (762.0 - 739.3)

Volume	Invert	Avail.Storage	Storage Description
#1	207.99'	770 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
207.99	636	0.0	0	0
208.00	636	40.0	3	3
210.99	636	40.0	761	763
211.00	636	100.0	6	770

Device	Routing	Invert	Outlet Devices
#1	Primary	210.90'	160.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#2	Primary	208.50'	4.0" Round Culvert L= 80.0' Ke= 0.500 Inlet / Outlet Invert= 208.50' / 205.10' S= 0.0425 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.09 sf
#3	Discarded	207.99'	2.410 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.04 cfs @ 8.80 hrs HW=208.02' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 0.04 cfs)**Primary OutFlow** Max=1.06 cfs @ 12.20 hrs HW=210.91' TW=207.15' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 0.67 cfs @ 0.32 fps)↑ **2=Culvert** (Outlet Controls 0.39 cfs @ 4.43 fps)**Summary for Pond OCS1: OCS#1**

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 8.40" for 100YR event
 Inflow = 13.58 cfs @ 12.09 hrs, Volume= 48,472 cf
 Outflow = 13.58 cfs @ 12.09 hrs, Volume= 48,472 cf, Atten= 0%, Lag= 0.0 min
 Primary = 13.58 cfs @ 12.09 hrs, Volume= 48,472 cf
 Routed to Pond P206 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 197.50' @ 12.10 hrs

Flood Elev= 201.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	195.00'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=13.23 cfs @ 12.09 hrs HW=197.43' TW=196.67' (Dynamic Tailwater)↑ **1=Orifice/Grate** (Orifice Controls 13.23 cfs @ 4.21 fps)**Summary for Pond OCS3: OCS#3**

Inflow Area = 54,550 sf, 83.49% Impervious, Inflow Depth > 7.89" for 100YR event
 Inflow = 9.78 cfs @ 12.09 hrs, Volume= 35,845 cf
 Outflow = 9.78 cfs @ 12.09 hrs, Volume= 35,845 cf, Atten= 0%, Lag= 0.0 min
 Primary = 9.78 cfs @ 12.09 hrs, Volume= 35,845 cf
 Routed to Pond p204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

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Peak Elev= 206.80' @ 12.11 hrs

Flood Elev= 209.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.55 cfs @ 12.09 hrs HW=206.66' TW=205.40' (Dynamic Tailwater)↑**1=Orifice/Grate** (Orifice Controls 9.55 cfs @ 5.40 fps)**Summary for Pond OCS4: OCS#4**

Inflow Area = 19,582 sf, 26.87% Impervious, Inflow Depth > 6.27" for 100YR event
 Inflow = 2.85 cfs @ 12.10 hrs, Volume= 10,224 cf
 Outflow = 2.85 cfs @ 12.10 hrs, Volume= 10,224 cf, Atten= 0%, Lag= 0.0 min
 Primary = 2.85 cfs @ 12.10 hrs, Volume= 10,224 cf
 Routed to Pond P204 : STORMTECH INFILTRATION SYSTEM

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.79' @ 12.18 hrs

Flood Elev= 208.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	203.10'	18.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.85 cfs @ 12.10 hrs HW=205.60' TW=205.49' (Dynamic Tailwater)↑**1=Orifice/Grate** (Orifice Controls 2.85 cfs @ 1.61 fps)**Summary for Pond P204: STORMTECH INFILTRATION SYSTEM**

Inflow Area = 74,132 sf, 68.53% Impervious, Inflow Depth > 7.46" for 100YR event
 Inflow = 12.61 cfs @ 12.09 hrs, Volume= 46,068 cf
 Outflow = 9.15 cfs @ 12.19 hrs, Volume= 43,383 cf, Atten= 27%, Lag= 5.7 min
 Discarded = 0.09 cfs @ 6.65 hrs, Volume= 6,579 cf
 Primary = 9.06 cfs @ 12.19 hrs, Volume= 36,804 cf
 Routed to Reach 20r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 205.73' @ 12.19 hrs Surf.Area= 5,670 sf Storage= 11,533 cf

Flood Elev= 208.75' Surf.Area= 5,670 sf Storage= 13,379 cf

Plug-Flow detention time= 77.6 min calculated for 43,293 cf (94% of inflow)

Center-of-Mass det. time= 46.0 min (812.0 - 766.0)

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Volume	Invert	Avail.Storage	Storage Description
#1A	202.50'	5,923 cf	77.50'W x 67.70'L x 4.08'H STORMTECH SC-740 21,423 cf Overall - 6,615 cf Embedded = 14,808 cf x 40.0% Voids
#2A	203.08'	6,615 cf	ADS_StormTech SC-740 +Cap x 144 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 144 Chambers in 16 Rows
#3B	202.50'	427 cf	6.25'W x 67.70'L x 3.50'H ISOLATOR ROW 1,481 cf Overall - 413 cf Embedded = 1,067 cf x 40.0% Voids
#4B	203.00'	413 cf	ADS_StormTech SC-740 +Cap x 9 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap
		13,379 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	202.75'	15.0" Round Culvert L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 202.75' / 201.00' S= 0.0500 ' /' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#2	Device 1	204.75'	4.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32
#3	Device 1	203.25'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Discarded	202.50'	0.660 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.09 cfs @ 6.65 hrs HW=202.57' (Free Discharge)↳ **4=Exfiltration** (Exfiltration Controls 0.09 cfs)**Primary OutFlow** Max=9.03 cfs @ 12.19 hrs HW=205.71' TW=200.26' (Dynamic Tailwater)↳ **1=Culvert** (Inlet Controls 9.03 cfs @ 7.36 fps)↳ **2=Broad-Crested Rectangular Weir** (Passes < 12.50 cfs potential flow)↳ **3=Orifice/Grate** (Passes < 2.45 cfs potential flow)**Summary for Pond P205: POCKET WETLAND #2**

Inflow Area = 312,355 sf, 35.38% Impervious, Inflow Depth > 6.03" for 100YR event

Inflow = 33.82 cfs @ 12.15 hrs, Volume= 156,853 cf

Outflow = 28.49 cfs @ 12.31 hrs, Volume= 129,658 cf, Atten= 16%, Lag= 9.8 min

Primary = 28.49 cfs @ 12.31 hrs, Volume= 129,658 cf

Routed to Reach 18R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 197.00' Surf.Area= 538 sf Storage= 455 cf

Peak Elev= 202.40' @ 12.31 hrs Surf.Area= 14,390 sf Storage= 47,934 cf (47,480 cf above start)

Plug-Flow detention time= 162.7 min calculated for 129,203 cf (82% of inflow)

Center-of-Mass det. time= 90.5 min (901.3 - 810.8)

19097 Post-Development

Type III 24-hr 100YR Rainfall=9.06"

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Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	65,076 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	371	0	0
197.00	538	455	455
198.00	5,675	3,107	3,561
200.00	9,686	15,361	18,922
202.00	13,696	23,382	42,304
203.00	15,427	14,562	56,866
203.50	17,413	8,210	65,076

Device	Routing	Invert	Outlet Devices
#1	Primary	202.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	196.00'	18.0" Round Culvert L= 63.0' Ke= 0.500 Inlet / Outlet Invert= 196.00' / 194.00' S= 0.0317 ' /' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#3	Device 2	197.00'	5.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 2	202.00'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads

Primary OutFlow Max=28.14 cfs @ 12.31 hrs HW=202.40' TW=192.68' (Dynamic Tailwater)1=**Broad-Crested Rectangular Weir** (Weir Controls 13.53 cfs @ 1.70 fps)2=**Culvert** (Passes 14.61 cfs of 20.22 cfs potential flow)3=**Orifice/Grate** (Orifice Controls 1.50 cfs @ 10.97 fps)4=**Orifice/Grate** (Weir Controls 13.11 cfs @ 2.06 fps)**Summary for Pond P206: STORMTECH INFILTRATION SYSTEM**

Inflow Area = 69,261 sf, 82.50% Impervious, Inflow Depth > 8.40" for 100YR event

Inflow = 13.58 cfs @ 12.09 hrs, Volume= 48,472 cf

Outflow = 11.35 cfs @ 12.15 hrs, Volume= 48,466 cf, Atten= 16%, Lag= 3.6 min

Discarded = 0.49 cfs @ 9.60 hrs, Volume= 28,117 cf

Primary = 10.86 cfs @ 12.15 hrs, Volume= 20,349 cf

Routed to Link AP4 : ANALYSIS POINT #4

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 196.76' @ 12.15 hrs Surf.Area= 6,072 sf Storage= 8,983 cf

Plug-Flow detention time= 52.4 min calculated for 48,365 cf (100% of inflow)

Center-of-Mass det. time= 52.2 min (805.0 - 752.8)

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Volume	Invert	Avail.Storage	Storage Description
#1A	194.67'	1,786 cf	39.50'W x 53.46'L x 3.33'H FIELD A 7,038 cf Overall - 2,573 cf Embedded = 4,466 cf x 40.0% Voids
#2A	195.00'	2,573 cf	ADS_StormTech SC-740 +Cap x 56 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 56 Chambers in 8 Rows
#3B	194.67'	3,296 cf	58.50'W x 67.70'L x 3.33'H FIELD B 13,201 cf Overall - 4,962 cf Embedded = 8,239 cf x 40.0% Voids
#4B	195.00'	4,962 cf	ADS_StormTech SC-740 +Cap x 108 Inside #3 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 108 Chambers in 12 Rows
		12,616 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	194.00'	18.0" Round Culvert L= 30.0' Ke= 0.200 Inlet / Outlet Invert= 194.00' / 193.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	195.85'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#3	Discarded	194.67'	3.500 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.49 cfs @ 9.60 hrs HW=194.70' (Free Discharge)↑**3=Exfiltration** (Exfiltration Controls 0.49 cfs)**Primary OutFlow** Max=10.78 cfs @ 12.15 hrs HW=196.76' TW=0.00' (Dynamic Tailwater)↑**1=Culvert** (Passes 10.78 cfs of 12.72 cfs potential flow)↑**2=Sharp-Crested Rectangular Weir** (Weir Controls 10.78 cfs @ 3.11 fps)**Summary for Pond P207: INFILTRATION POND #2**

Inflow Area = 118,082 sf, 59.60% Impervious, Inflow Depth > 7.60" for 100YR event
Inflow = 20.79 cfs @ 12.09 hrs, Volume= 74,810 cf
Outflow = 6.00 cfs @ 12.47 hrs, Volume= 74,786 cf, Atten= 71%, Lag= 22.5 min
Discarded = 1.12 cfs @ 12.47 hrs, Volume= 46,601 cf
Primary = 4.88 cfs @ 12.47 hrs, Volume= 28,185 cf
Routed to Reach 10r : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Peak Elev= 199.07' @ 12.47 hrs Surf.Area= 13,155 sf Storage= 26,002 cf

Plug-Flow detention time= 73.6 min calculated for 74,630 cf (100% of inflow)

Center-of-Mass det. time= 73.3 min (848.0 - 774.8)

Volume	Invert	Avail.Storage	Storage Description
#1	196.80'	38,940 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.80	9,900	0	0
198.00	11,500	12,840	12,840
200.00	14,600	26,100	38,940

Device	Routing	Invert	Outlet Devices
#1	Primary	199.00'	20.0' long x 21.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	195.00'	15.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 195.00' / 194.50' S= 0.0125 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#3	Device 2	199.00'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads
#4	Device 2	197.40'	7.0" Vert. Orifice/Grate X 2.00 C= 0.600 Limited to weir flow at low heads
#5	Discarded	196.80'	3.690 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=1.12 cfs @ 12.47 hrs HW=199.07' (Free Discharge)↑ **5=Exfiltration** (Exfiltration Controls 1.12 cfs)**Primary OutFlow** Max=4.80 cfs @ 12.47 hrs HW=199.07' TW=192.44' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 0.90 cfs @ 0.69 fps)↑ **2=Culvert** (Passes 3.90 cfs of 10.96 cfs potential flow)↑ **3=Orifice/Grate** (Weir Controls 0.88 cfs @ 0.84 fps)↑ **4=Orifice/Grate** (Orifice Controls 3.02 cfs @ 5.64 fps)**Summary for Pond P210: POCKET WETLAND #1**

Inflow Area = 106,812 sf, 58.84% Impervious, Inflow Depth > 7.31" for 100YR event

Inflow = 18.90 cfs @ 12.09 hrs, Volume= 65,052 cf

Outflow = 10.37 cfs @ 12.23 hrs, Volume= 46,642 cf, Atten= 45%, Lag= 8.5 min

Primary = 10.37 cfs @ 12.23 hrs, Volume= 46,642 cf

Routed to Reach 15R : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3

Starting Elev= 201.00' Surf.Area= 376 sf Storage= 591 cf

Peak Elev= 205.30' @ 12.23 hrs Surf.Area= 11,451 sf Storage= 27,524 cf (26,933 cf above start)

Plug-Flow detention time= 174.0 min calculated for 46,051 cf (71% of inflow)

Center-of-Mass det. time= 78.6 min (855.5 - 776.9)

Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	43,190 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	218	0	0
200.00	294	256	256
201.00	376	335	591
202.00	3,991	2,184	2,775
204.00	8,073	12,064	14,839
206.00	13,272	21,345	36,184
206.50	14,753	7,006	43,190

Device	Routing	Invert	Outlet Devices
#1	Primary	205.10'	20.0' long x 15.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	202.25'	12.0" Round Culvert L= 44.0' Ke= 0.500 Inlet / Outlet Invert= 202.25' / 202.03' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#3	Device 2	202.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Device 2	204.50'	6.0" x 6.0" Horiz. Orifice/Grate X 6.00 columns X 6 rows C= 0.600 in 48.0" x 48.0" Grate (56% open area) Limited to weir flow at low heads

Primary OutFlow Max=10.28 cfs @ 12.23 hrs HW=205.30' TW=202.33' (Dynamic Tailwater)

- 1=**Broad-Crested Rectangular Weir** (Weir Controls 4.69 cfs @ 1.19 fps)
 2=**Culvert** (Barrel Controls 5.59 cfs @ 7.12 fps)
 3=**Orifice/Grate** (Passes < 0.28 cfs potential flow)
 4=**Orifice/Grate** (Passes < 37.23 cfs potential flow)

Summary for Pond P212: INFILTRATION POND #1

Inflow Area = 276,025 sf, 53.83% Impervious, Inflow Depth > 7.51" for 100YR event
 Inflow = 40.18 cfs @ 12.11 hrs, Volume= 172,695 cf
 Outflow = 33.06 cfs @ 12.22 hrs, Volume= 171,377 cf, Atten= 18%, Lag= 6.6 min
 Discarded = 2.22 cfs @ 12.22 hrs, Volume= 91,544 cf
 Primary = 30.84 cfs @ 12.22 hrs, Volume= 79,833 cf
 Routed to Reach r211 : OVERLAND FLOW

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 203.04' @ 12.22 hrs Surf.Area= 18,684 sf Storage= 41,511 cf

Plug-Flow detention time= 78.1 min calculated for 171,020 cf (99% of inflow)
 Center-of-Mass det. time= 73.2 min (856.6 - 783.4)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	60,838 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	7,528	0	0
201.00	12,295	9,912	9,912
202.00	15,371	13,833	23,745
204.00	21,722	37,093	60,838

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Device	Routing	Invert	Outlet Devices
#1	Primary	202.50'	25.0' long x 20.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63
#2	Primary	201.30'	12.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 201.30' / 201.10' S= 0.0050 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 0.79 sf
#3	Discarded	200.00'	5.130 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=2.22 cfs @ 12.22 hrs HW=203.04' (Free Discharge)↑ **3=Exfiltration** (Exfiltration Controls 2.22 cfs)**Primary OutFlow** Max=30.37 cfs @ 12.22 hrs HW=203.04' TW=200.53' (Dynamic Tailwater)↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 26.56 cfs @ 1.98 fps)↑ **2=Culvert** (Barrel Controls 3.81 cfs @ 4.85 fps)**Summary for Link AP1: ANALYSIS POINT 1**

Inflow Area = 11,582 sf, 80.55% Impervious, Inflow Depth > 7.97" for 100YR event
 Inflow = 2.23 cfs @ 12.09 hrs, Volume= 7,690 cf
 Primary = 2.23 cfs @ 12.09 hrs, Volume= 7,690 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP2: ANALYSIS POINT 2

Inflow Area = 815,829 sf, 13.52% Impervious, Inflow Depth > 6.15" for 100YR event
 Inflow = 58.35 cfs @ 12.39 hrs, Volume= 417,853 cf
 Primary = 58.35 cfs @ 12.39 hrs, Volume= 417,853 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP3: ANALYSIS POINT 3

Inflow Area = 46,924 sf, 0.00% Impervious, Inflow Depth > 5.76" for 100YR event
 Inflow = 7.09 cfs @ 12.09 hrs, Volume= 22,504 cf
 Primary = 7.09 cfs @ 12.09 hrs, Volume= 22,504 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link AP4: ANALYSIS POINT #4

Inflow Area = 1,699,585 sf, 28.90% Impervious, Inflow Depth > 4.58" for 100YR event
 Inflow = 106.14 cfs @ 12.41 hrs, Volume= 648,428 cf
 Primary = 106.14 cfs @ 12.41 hrs, Volume= 648,428 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

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Stage-Area-Storage for Pond P204: STORMTECH INFILTRATION SYSTEM

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.50	5,670	0	207.70	5,670	13,379
202.60	5,670	227	207.80	5,670	13,379
202.70	5,670	454	207.90	5,670	13,379
202.80	5,670	680	208.00	5,670	13,379
202.90	5,670	907	208.10	5,670	13,379
203.00	5,670	1,134	208.20	5,670	13,379
203.10	5,670	1,413	208.30	5,670	13,379
203.20	5,670	1,883	208.40	5,670	13,379
203.30	5,670	2,350	208.50	5,670	13,379
203.40	5,670	2,815	208.60	5,670	13,379
203.50	5,670	3,277	208.70	5,670	13,379
203.60	5,670	3,735			
203.70	5,670	4,189			
203.80	5,670	4,638			
203.90	5,670	5,083			
204.00	5,670	5,524			
204.10	5,670	5,958			
204.20	5,670	6,387			
204.30	5,670	6,810			
204.40	5,670	7,225			
204.50	5,670	7,633			
204.60	5,670	8,033			
204.70	5,670	8,425			
204.80	5,670	8,805			
204.90	5,670	9,174			
205.00	5,670	9,531			
205.10	5,670	9,873			
205.20	5,670	10,199			
205.30	5,670	10,500			
205.40	5,670	10,770			
205.50	5,670	11,016			
205.60	5,670	11,248			
205.70	5,670	11,474			
205.80	5,670	11,701			
205.90	5,670	11,928			
206.00	5,670	12,155			
206.10	5,670	12,365			
206.20	5,670	12,574			
206.30	5,670	12,784			
206.40	5,670	12,994			
206.50	5,670	13,204			
206.60	5,670	13,379			
206.70	5,670	13,379			
206.80	5,670	13,379			
206.90	5,670	13,379			
207.00	5,670	13,379			
207.10	5,670	13,379			
207.20	5,670	13,379			
207.30	5,670	13,379			
207.40	5,670	13,379			
207.50	5,670	13,379			
207.60	5,670	13,379			

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Stage-Area-Storage for Pond P205: POCKET WETLAND #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.00	371	0	201.20	12,092	31,989
196.10	388	38	201.30	12,293	33,208
196.20	404	78	201.40	12,493	34,447
196.30	421	119	201.50	12,694	35,707
196.40	438	162	201.60	12,894	36,986
196.50	455	206	201.70	13,094	38,285
196.60	471	253	201.80	13,295	39,605
196.70	488	301	201.90	13,496	40,944
196.80	505	350	202.00	13,696	42,304
196.90	521	402	202.10	13,869	43,682
197.00	538	455	202.20	14,042	45,078
197.10	1,052	534	202.30	14,215	46,491
197.20	1,565	665	202.40	14,388	47,921
197.30	2,079	847	202.50	14,562	49,368
197.40	2,593	1,081	202.60	14,735	50,833
197.50	3,107	1,366	202.70	14,908	52,315
197.60	3,620	1,702	202.80	15,081	53,815
197.70	4,134	2,090	202.90	15,254	55,331
197.80	4,648	2,529	203.00	15,427	56,866
197.90	5,161	3,019	203.10	15,824	58,428
198.00	5,675	3,561	203.20	16,221	60,030
198.10	5,876	4,139	203.30	16,619	61,672
198.20	6,076	4,736	203.40	17,016	63,354
198.30	6,277	5,354	203.50	17,413	65,076
198.40	6,477	5,991			
198.50	6,678	6,649			
198.60	6,878	7,327			
198.70	7,079	8,025			
198.80	7,279	8,743			
198.90	7,480	9,481			
199.00	7,681	10,239			
199.10	7,881	11,017			
199.20	8,082	11,815			
199.30	8,282	12,633			
199.40	8,483	13,471			
199.50	8,683	14,330			
199.60	8,884	15,208			
199.70	9,084	16,106			
199.80	9,285	17,025			
199.90	9,485	17,963			
200.00	9,686	18,922			
200.10	9,886	19,901			
200.20	10,087	20,899			
200.30	10,288	21,918			
200.40	10,488	22,957			
200.50	10,689	24,016			
200.60	10,889	25,094			
200.70	11,089	26,193			
200.80	11,290	27,312			
200.90	11,491	28,451			
201.00	11,691	29,611			
201.10	11,891	30,790			

19097 Post-Development

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Stage-Area-Storage for Pond P206: STORMTECH INFILTRATION SYSTEM

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.67	6,072	0	197.27	6,072	10,788
194.72	6,072	121	197.32	6,072	10,930
194.77	6,072	243	197.37	6,072	11,064
194.82	6,072	364	197.42	6,072	11,194
194.87	6,072	486	197.47	6,072	11,320
194.92	6,072	607	197.52	6,072	11,442
194.97	6,072	729	197.57	6,072	11,564
195.02	6,072	893	197.62	6,072	11,685
195.07	6,072	1,145	197.67	6,072	11,807
195.12	6,072	1,397	197.72	6,072	11,928
195.17	6,072	1,648	197.77	6,072	12,050
195.22	6,072	1,898	197.82	6,072	12,171
195.27	6,072	2,147	197.87	6,072	12,292
195.32	6,072	2,396	197.92	6,072	12,414
195.37	6,072	2,644	197.97	6,072	12,535
195.42	6,072	2,891			
195.47	6,072	3,137			
195.52	6,072	3,382			
195.57	6,072	3,626			
195.62	6,072	3,868			
195.67	6,072	4,110			
195.72	6,072	4,350			
195.77	6,072	4,590			
195.82	6,072	4,827			
195.87	6,072	5,064			
195.92	6,072	5,299			
195.97	6,072	5,533			
196.02	6,072	5,765			
196.07	6,072	5,996			
196.12	6,072	6,225			
196.17	6,072	6,453			
196.22	6,072	6,678			
196.27	6,072	6,902			
196.32	6,072	7,124			
196.37	6,072	7,343			
196.42	6,072	7,561			
196.47	6,072	7,777			
196.52	6,072	7,990			
196.57	6,072	8,201			
196.62	6,072	8,410			
196.67	6,072	8,616			
196.72	6,072	8,818			
196.77	6,072	9,018			
196.82	6,072	9,214			
196.87	6,072	9,407			
196.92	6,072	9,597			
196.97	6,072	9,783			
197.02	6,072	9,965			
197.07	6,072	10,142			
197.12	6,072	10,315			
197.17	6,072	10,481			
197.22	6,072	10,639			

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Stage-Area-Storage for Pond P207: INFILTRATION POND #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.80	9,900	0	199.45	13,748	31,144
196.85	9,967	497	199.50	13,825	31,834
196.90	10,033	997	199.55	13,903	32,527
196.95	10,100	1,500	199.60	13,980	33,224
197.00	10,167	2,007	199.65	14,058	33,925
197.05	10,233	2,517	199.70	14,135	34,630
197.10	10,300	3,030	199.75	14,213	35,338
197.15	10,367	3,547	199.80	14,290	36,051
197.20	10,433	4,067	199.85	14,368	36,767
197.25	10,500	4,590	199.90	14,445	37,488
197.30	10,567	5,117	199.95	14,523	38,212
197.35	10,633	5,647	200.00	14,600	38,940
197.40	10,700	6,180			
197.45	10,767	6,717			
197.50	10,833	7,257			
197.55	10,900	7,800			
197.60	10,967	8,347			
197.65	11,033	8,897			
197.70	11,100	9,450			
197.75	11,167	10,007			
197.80	11,233	10,567			
197.85	11,300	11,130			
197.90	11,367	11,697			
197.95	11,433	12,267			
198.00	11,500	12,840			
198.05	11,578	13,417			
198.10	11,655	13,998			
198.15	11,733	14,582			
198.20	11,810	15,171			
198.25	11,888	15,763			
198.30	11,965	16,360			
198.35	12,043	16,960			
198.40	12,120	17,564			
198.45	12,198	18,172			
198.50	12,275	18,784			
198.55	12,353	19,399			
198.60	12,430	20,019			
198.65	12,508	20,642			
198.70	12,585	21,270			
198.75	12,663	21,901			
198.80	12,740	22,536			
198.85	12,818	23,175			
198.90	12,895	23,818			
198.95	12,973	24,464			
199.00	13,050	25,115			
199.05	13,128	25,769			
199.10	13,205	26,428			
199.15	13,283	27,090			
199.20	13,360	27,756			
199.25	13,438	28,426			
199.30	13,515	29,100			
199.35	13,593	29,777			
199.40	13,670	30,459			

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Stage-Area-Storage for Pond P210: POCKET WETLAND #1

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.00	218	0	204.20	8,593	16,505
199.10	226	22	204.30	8,853	17,377
199.20	233	45	204.40	9,113	18,276
199.30	241	69	204.50	9,373	19,200
199.40	248	93	204.60	9,633	20,150
199.50	256	119	204.70	9,893	21,126
199.60	264	144	204.80	10,153	22,129
199.70	271	171	204.90	10,413	23,157
199.80	279	199	205.00	10,673	24,211
199.90	286	227	205.10	10,932	25,291
200.00	294	256	205.20	11,192	26,398
200.10	302	286	205.30	11,452	27,530
200.20	310	316	205.40	11,712	28,688
200.30	319	348	205.50	11,972	29,872
200.40	327	380	205.60	12,232	31,083
200.50	335	413	205.70	12,492	32,319
200.60	343	447	205.80	12,752	33,581
200.70	351	482	205.90	13,012	34,869
200.80	360	517	206.00	13,272	36,184
200.90	368	554	206.10	13,568	37,526
201.00	376	591	206.20	13,864	38,897
201.10	737	647	206.30	14,161	40,298
201.20	1,099	738	206.40	14,457	41,729
201.30	1,461	866	206.50	14,753	43,190
201.40	1,822	1,031			
201.50	2,184	1,231			
201.60	2,545	1,467			
201.70	2,906	1,740			
201.80	3,268	2,049			
201.90	3,630	2,393			
202.00	3,991	2,775			
202.10	4,195	3,184			
202.20	4,399	3,614			
202.30	4,603	4,064			
202.40	4,807	4,534			
202.50	5,012	5,025			
202.60	5,216	5,536			
202.70	5,420	6,068			
202.80	5,624	6,620			
202.90	5,828	7,193			
203.00	6,032	7,786			
203.10	6,236	8,399			
203.20	6,440	9,033			
203.30	6,644	9,687			
203.40	6,848	10,362			
203.50	7,053	11,057			
203.60	7,257	11,773			
203.70	7,461	12,508			
203.80	7,665	13,265			
203.90	7,869	14,041			
204.00	8,073	14,839			
204.10	8,333	15,659			

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Stage-Area-Storage for Pond P212: INFILTRATION POND #1

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	7,528	0	202.60	17,276	33,539
200.05	7,766	382	202.65	17,435	34,406
200.10	8,005	777	202.70	17,594	35,282
200.15	8,243	1,183	202.75	17,753	36,166
200.20	8,481	1,601	202.80	17,911	37,057
200.25	8,720	2,031	202.85	18,070	37,957
200.30	8,958	2,473	202.90	18,229	38,864
200.35	9,196	2,927	202.95	18,388	39,780
200.40	9,435	3,393	203.00	18,547	40,703
200.45	9,673	3,870	203.05	18,705	41,635
200.50	9,912	4,360	203.10	18,864	42,574
200.55	10,150	4,861	203.15	19,023	43,521
200.60	10,388	5,375	203.20	19,182	44,476
200.65	10,627	5,900	203.25	19,340	45,439
200.70	10,865	6,438	203.30	19,499	46,410
200.75	11,103	6,987	203.35	19,658	47,389
200.80	11,342	7,548	203.40	19,817	48,376
200.85	11,580	8,121	203.45	19,975	49,371
200.90	11,818	8,706	203.50	20,134	50,373
200.95	12,057	9,303	203.55	20,293	51,384
201.00	12,295	9,912	203.60	20,452	52,403
201.05	12,449	10,530	203.65	20,611	53,429
201.10	12,603	11,156	203.70	20,769	54,464
201.15	12,756	11,790	203.75	20,928	55,506
201.20	12,910	12,432	203.80	21,087	56,557
201.25	13,064	13,081	203.85	21,246	57,615
201.30	13,218	13,738	203.90	21,404	58,681
201.35	13,372	14,403	203.95	21,563	59,755
201.40	13,525	15,076	204.00	21,722	60,838
201.45	13,679	15,756			
201.50	13,833	16,444			
201.55	13,987	17,139			
201.60	14,141	17,842			
201.65	14,294	18,553			
201.70	14,448	19,272			
201.75	14,602	19,998			
201.80	14,756	20,732			
201.85	14,910	21,473			
201.90	15,063	22,223			
201.95	15,217	22,980			
202.00	15,371	23,745			
202.05	15,530	24,517			
202.10	15,689	25,297			
202.15	15,847	26,086			
202.20	16,006	26,882			
202.25	16,165	27,686			
202.30	16,324	28,499			
202.35	16,482	29,319			
202.40	16,641	30,147			
202.45	16,800	30,983			
202.50	16,959	31,827			
202.55	17,118	32,679			

Pocket Wetland Sizing

P205

Site Location: 55 Summer Street - Walpole, MA



Date: 09/29/2022

By: PB

Checked: KE

Design Criteria	Pocket Wetland (req.)	Pocket Wetland (P205)
Minimum Drainage Area (Ac.)	≥ 1 to 10	1.9
Constructed Wetland Surface Area/Watershed Ratio	≥ 0.01	0.19
Length to Width Ratio (min.)	≥ 2:1	3:1
Extended Detention (ED)	OPTIONAL	NO
Allocation of WQv Volume (wet pools/low and high marsh/ED) in %	20/80/02	23/77/0
Allocation of Surface Area (wet pools/low marsh/high marsh/semi-wet) in %	10/45/40/5	10/51/36/4
Sediment Forebay	REQUIRED	YES
Micropool	REQUIRED	YES
Outlet Configuration	Hooded Broad-Crested Weir	Multi-Stage Discharge Outlet Structure
Target Allocations	Pocket Wetland	Pocket Wetland
% Surface Area (Req.)		10,163
Sediment Forebay	5%	5%
Micropool	5%	5%
Deep Water Channel	0%	0%
Lo Marsh	45%	51%
High Marsh	40%	36%
Semi-Wet	5%	4%
% WQv Volume (Req.)		3,511
Sediment Forebay	10%	10%
Micropool	10%	13%
Deep Water Channel	0%	0%
Lo Marsh and High Marsh	80%	77%

Designed Surface Area (sf)	
Sediment Forebay	477
Micropool	538
Deep Water	0
Lo Marsh	5137
High Marsh	3610
Semi-Wet	401

Designed Water Quality Volume (cf)	
Sediment Forebay	354
Micropool	455

Pocket Wetland Sizing

P210

Site Location: 55 Summer Street - Walpole, MA



Date: 09/29/2022

By: PB

Checked: KE

Design Criteria	Pocket Wetland (req.)	Pocket Wetland (P205)
Minimum Drainage Area (Ac.)	≥ 1 to 10	2.5
Constructed Wetland Surface Area/Watershed Ratio	≥ 0.01	0.08
Length to Width Ratio (min.)	≥ 2:1	12:1
Extended Detention (ED)	OPTIONAL	NO
Allocation of WQv Volume (wet pools/low and high marsh/ED) in %	20/80/02	24/76/0
Allocation of Surface Area (wet pools/low marsh/high marsh/semi-wet) in %	10/45/40/5	9/43/43/5
Sediment Forebay	REQUIRED	YES
Micropool	REQUIRED	YES
Outlet Configuration	Hooded Broad-Crested Weir	Multi-Stage Discharge Outlet Structure
Target Allocations	Pocket Wetland	Pocket Wetland
% Surface Area (Req.)		8,465
Sediment Forebay	5%	5%
Micropool	5%	4%
Deep Water Channel	0%	0%
Lo Marsh	45%	43%
High Marsh	40%	43%
Semi-Wet	5%	5%
% WQv Volume (Req.)		2,619
Sediment Forebay	10%	10%
Micropool	10%	14%
Deep Water Channel	0%	0%
Lo Marsh and High Marsh	80%	76%

Designed Surface Area (sf)	
Sediment Forebay	392
Micropool	376
Deep Water	0
Lo Marsh	3615
High Marsh	3674
Semi-Wet	408

Designed Water Quality Volume (cf)	
Sediment Forebay	267
Micropool	376