

DEFINITIVE SUBDIVISION PLAN

"WARWICK ROAD EXTENSION"

A 2-LOT SINGLE FAMILY RESIDENTIAL SUBDIVISION

WALPOLE, MASSACHUSETTS

Date: August 22, 2022
 Revised: December 15, 2022
 January 19, 2023
 June 1, 2023; Aug. 25, 2023

ASSESSOR REFERENCE:
 MAP 56, PARCEL 89
 MAP 56, PARCEL 90

OWNERS:
 ROGER & THI BOWLES
 315 SUMMER STREET
 WALPOLE, MA 02081
 DEED REF: BK31530, PG.313

DWAINE ELIJAH- DEVONISH DAYE
 319 SUMMER STREET
 WALPOLE, MA 02081
 DEED REF: BK 34904, PG.62

ZONING CLASSIFICATION:
 RURAL RESIDENTIAL DISTRICT - R
 AREA: 40,000 S.F.
 FRONTAGE: 200 FT.
 CIRCLE: 160 FT.

MIN. SETBACK REQUIREMENTS:
 FRONT SET BACKS = 30 FT.
 SIDE SETBACKS = 25 FT.
 REAR SETBACKS = 30 FT.

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS
3	LAYOUT
4	GRADING, DRAINAGE & UTILITIES
5	PLAN & PROFILE
6	EROSION CONTROL PLAN
7	DETAILS
8	DETAILS
9	DETAILS
10	DETAILS
11	DETAILS
12	DETAILS

APPROVED BY THE
 WALPOLE PLANNING BOARD:

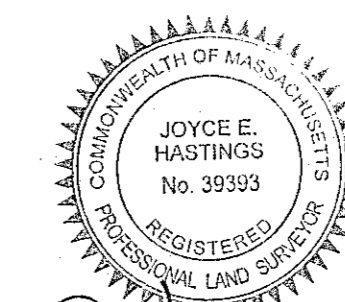
DATE APPROVED: _____

DATE ENDORSED: _____

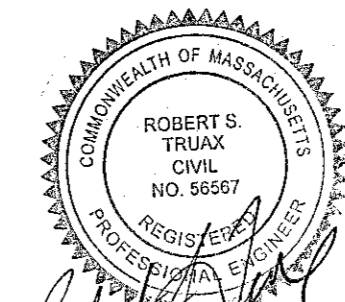
APPROVAL _____ SUBJECT TO
 A COVENANT CONDITIONS SET FORTH IN A
 COVENANT EXECUTED BY _____
 DATED _____ AND TO BE
 (RECORDED) (REGISTERED) HEREWITH.

I TOWN CLERK OF THE TOWN OF WALPOLE
 RECEIVED FROM THE PLANNING BOARD
 APPROVAL OF THIS PLAN AND NO APPEAL
 HAS BEEN TAKEN FOR TWENTY DAYS NEXT
 AFTER RECEIPT AND RECORDING OF SAME.

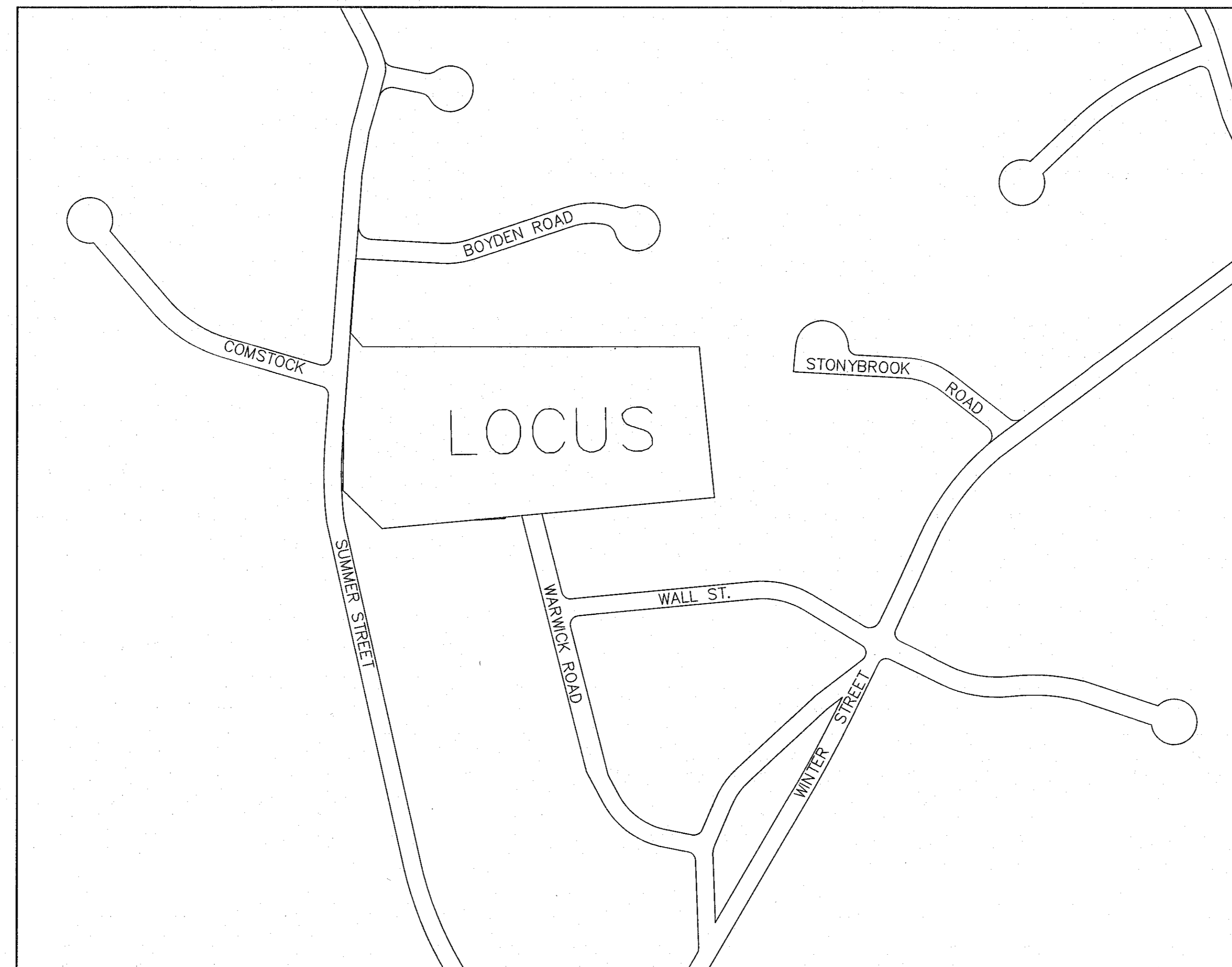
TOWN CLERK _____ DATE _____



J. Hastings 8/25/23



R. Truax 8/25/23



LOCUS MAP
 1"=200'

NOTES:

- THIS PLAN IS THE RESULT OF AN ON-THE-GROUND SURVEY CONDUCTED BY GLM ENGINEERING CONSULTANTS, INC. THE UTILITY LOCATIONS DEPICTED ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS MADE BY GLM ENGINEERING CONSULTANTS, INC., DIGSAFE PAINT-INDICATORS AND/OR RECORD PLAN LOCATIONS. GLM ENGINEERING CONSULTANTS, INC. DOES NOT WARRANT THAT ALL UTILITIES ARE SHOWN OR THAT UTILITIES THAT ARE DEPICTED ARE SHOWN IN THE CORRECT LOCATION OR WITH THE PROPER MATERIAL DESIGNATION. GLM ENGINEERING CONSULTANTS, INC. DOES NOT WARRANT OR PROVIDE AN EXPRESS OR IMPLIED WARRANTY THAT ALL SUBSURFACE IMPROVEMENTS ARE SHOWN CORRECTLY, INCLUDING BUT NOT LIMITED TO UTILITIES, UNDERGROUND VAULTS, TANKS OR CHAMBERS, DUCT BANKS AND/OR OTHER MAN-MADE UNDERGROUND IMPROVEMENTS. GLM ENGINEERING CONSULTANTS, INC. DOES NOT WARRANT THE LOCATION NOR CHARACTER OR SURFACE IMPROVEMENTS, THE OBSERVATION OF WHICH WAS OBTAINED AT THE TIME OF THE SURVEY.
- THE PROPERTY DESCRIBED ON THIS SURVEY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THE PROPERTY LIES WITHIN ZONE "X" OF THE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NUMBER 25021C0332E, EFFECTIVE DATE 07/17/2012.
- THE WETLAND DELINEATION WAS PERFORMED BY GODDARD CONSULTANT, LLC, 291 MAIN STREET, NORTHBOROUGH, MA
- ELEVATIONS ON THIS PLAN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

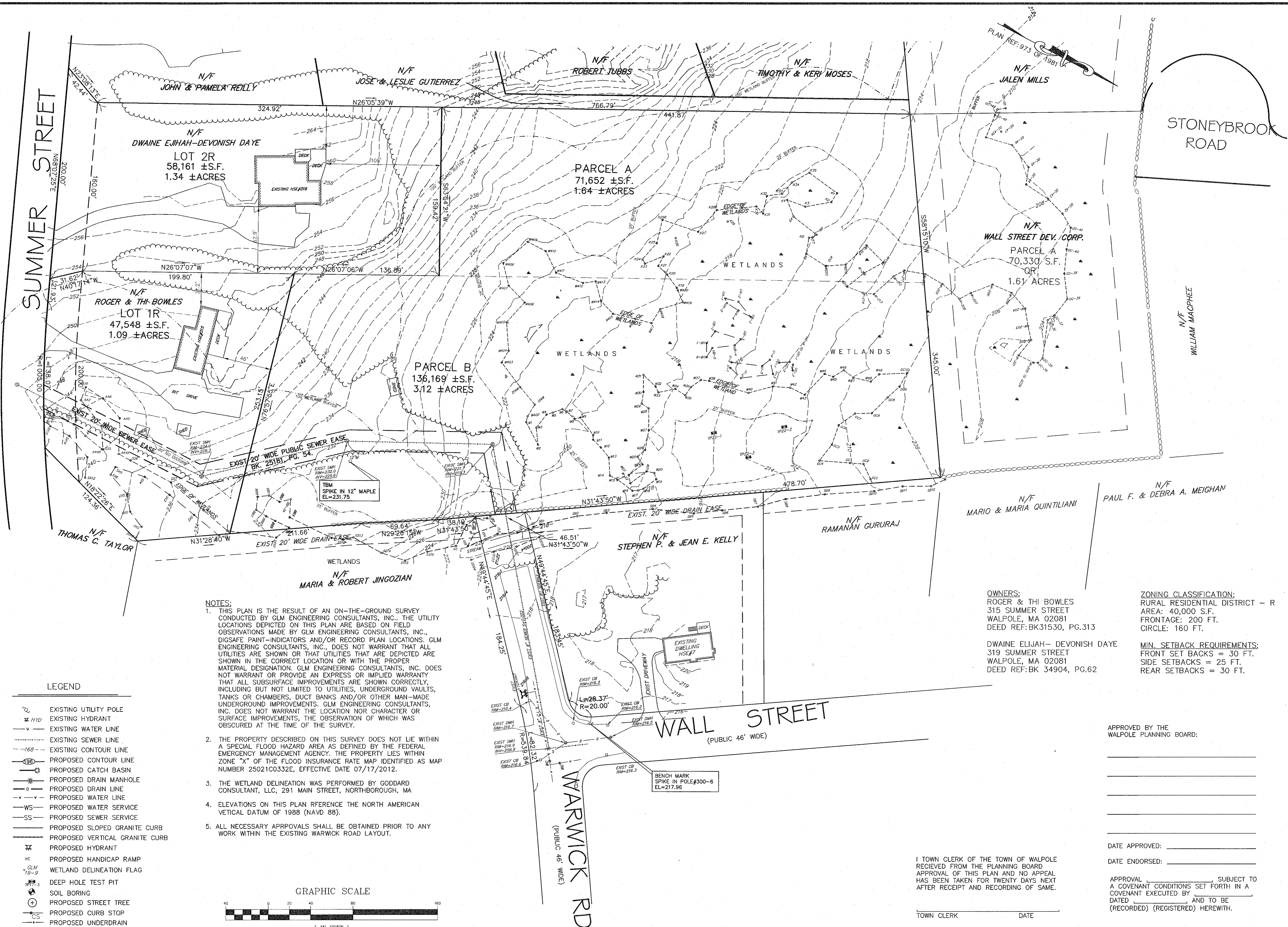
WAIVERS REQUESTED:

- SECTION III-1 SUBMISSION TO THE PLANNING BOARD: MUNICIPAL SYSTEMS IMPACT ANALYSIS: REQUEST A WAIVER OF THIS SECTION WITH THE EXCEPTION THAT A STORMWATER MANAGEMENT REPORT IS SUBMITTED HEREWITH.
- SECTION III-1 SUBMISSION TO THE PLANNING BOARD: (9) TRAFFIC IMPACT DATA AND ANALYSIS: REQUEST A WAIVER OF THIS SECTION.
- SECTION IV-6(c)(5): WAIVER REQUESTED FOR STONE LINED CHANNEL WITHIN THE DRAINAGE BASIN.
- SECTION IV-6(A)(6): WAIVER REQUESTED FOR VOLUME OF RUNOFF DISCHARGE FROM SITE. THE PROJECT SITE HAS POORLY DRAINED SOIL. THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS), HYDROLOGIC SOILS GROUP MAP FOR NORFOLK COUNTY, MASSACHUSETTS INDICATES THAT THE ON-SITE SOILS PRIMARILY CONSIST OF RIDGEBURY, FINE SANDY LOAM. NRCS ASSIGNED A HYDROLOGIC SOIL RATING D FOR THESE SOIL CLASSIFICATIONS. THE ENTIRE DEVELOPABLE AREA IS COMPRISED OF HYDROLOGIC SOIL GROUP "D". MASSDEP STORMWATER STANDARDS STATES, "RECHARGE VOLUME SHOULD BE INFILTRATED ONLY TO THE MAXIMUM EXTENT PRACTICABLE, IF SITE IS COMPRISED OF 'D' SOILS".

PREPARED BY:
GLM ENGINEERING
 CONSULTANTS, INC.
 19 EXCHANGE STREET
 HOLLISTON, MASSACHUSETTS 01746
 (508)429-1100 fax:(508)429-7160

APPLICANT:
 WALL STREET DEVELOPMENT CORP.
 P.O. BOX 272
 WESTWOOD, MA 02090

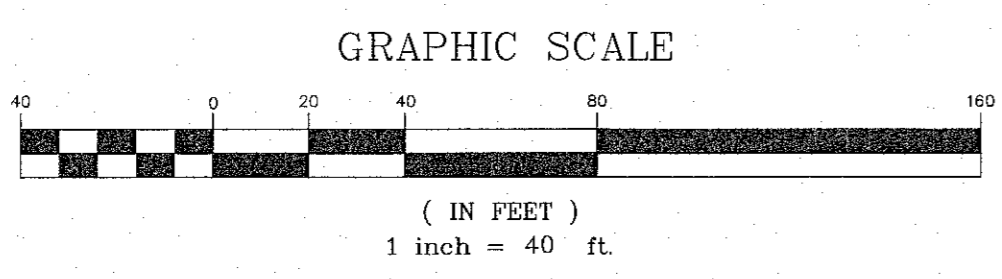
JOB No.	17,282
DATE:	August 22, 2022
SCALE:	AS SHOWN
SHEET:	1 of 12
PLAN #:	27,566



LEGEND

	EXISTING UTILITY POLE
	EXISTING HYDRANT
	EXISTING WATER LINE
	EXISTING SEWER LINE
	EXISTING CONTOUR LINE
	PROPOSED CATCH BASIN
	PROPOSED DRAIN MANHOLE
	PROPOSED DRAIN LINE
	PROPOSED WATER LINE
	PROPOSED WATER SERVICE
	PROPOSED SEWER SERVICE
	PROPOSED SLOPED GRANITE CURB
	PROPOSED VERTICAL GRANITE CURB
	PROPOSED HYDRANT
	PROPOSED HANDICAP RAMP
	WETLAND DELINEATION FLAG
	DEEP HOLE TEST PIT
	SOIL BORING
	PROPOSED STREET TREE
	PROPOSED CURB STOP
	PROPOSED UNDERDRAIN

- NOTES:**
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 3. THE WETLAND DELINEATION WAS PERFORMED BY GODDARD CONSULTANT, LLC, 291 MAIN STREET, NORTHBOROUGH, MA
 4. ELEVATIONS ON THIS PLAN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 5. ALL NECESSARY APPROVALS SHALL BE OBTAINED PRIOR TO ANY WORK WITHIN THE EXISTING WARWICK ROAD LAYOUT.



OWNERS:
 ROGER & THI BOWLES
 315 SUMMER STREET
 WALPOLE, MA 02081
 DEED REF: BK31530, PG.313

ZONING CLASSIFICATION:
 RURAL RESIDENTIAL DISTRICT - R
 AREA: 40,000 S.F.
 FRONTAGE: 200 FT.
 CIRCLE: 160 FT.

MIN. SETBACK REQUIREMENTS:
 FRONT SET BACKS = 30 FT.
 SIDE SETBACKS = 25 FT.
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TOWN CLERK _____ DATE _____

APPROVED BY THE WALPOLE PLANNING BOARD:

DATE APPROVED: _____

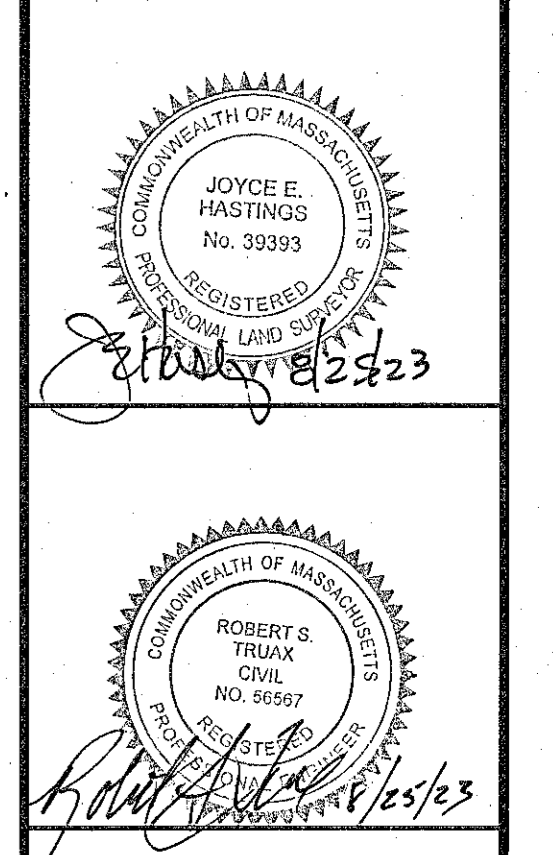
DATE ENDORSED: _____

APPROVAL _____ SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____ DATED _____ AND TO BE (RECORDED) (REGISTERED) HEREWITH.

EXISTING CONDITIONS

REVISIONS

No.	DATE	DESCRIPTION
1	12/15/2022	CONSERVATION ENG. COMMENTS
2	1/19/2023	PLG. BRD. ENG. COMMENTS
3	6/01/2023	PLG. BRD. & ENG. COMMENTS
4	8/25/2023	PLG. BRD. & ENG. COMMENTS



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 " WARWICK ROAD EXTENSION
 WALPOLE, MASSACHUSETTS**

PREPARED FOR:
 WALL STREET DEVELOPMENT CORP.
 P.O. BOX 272
 WESTWOOD, MASSACHUSETTS 02090

GLM Engineering Consultants, Inc.
 19 EXCHANGE STREET
 HOLLISTON, MA 01746
 P: 508-429-1100
 F: 508-429-7160
 www.GLMengineering.com

JOB No.	17,282
DATE:	August 22, 2022
SCALE:	1"=40'
SHEET:	2 of 12
PLAN #:	27,566

OWNERS:
 ROGER & THI BOWLES
 315 SUMMER STREET
 WALPOLE, MA 02081
 DEED REF: BK31530, PG.313

DWANE ELIJAH-DEVONISH DAYE
 319 SUMMER STREET
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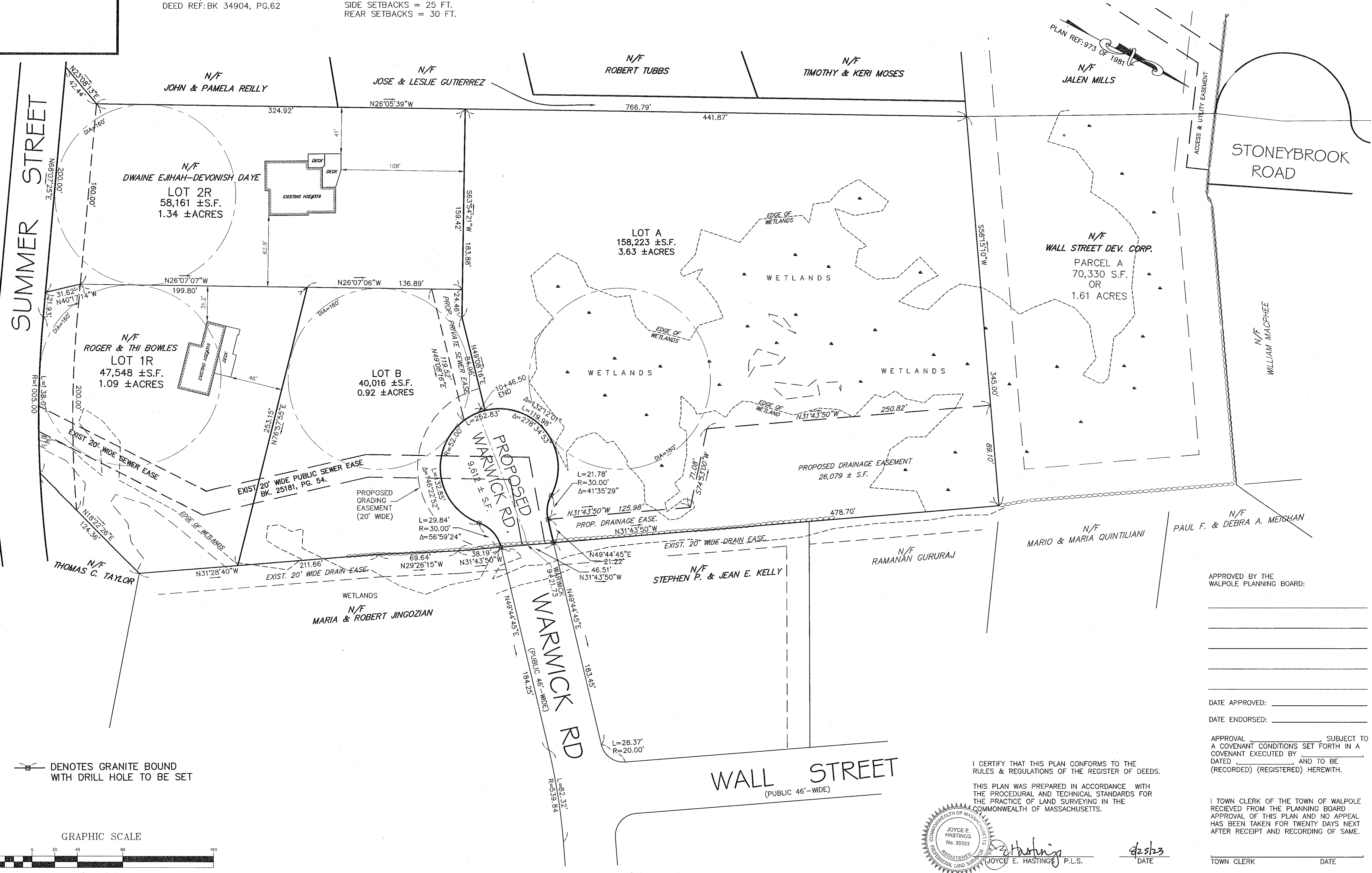
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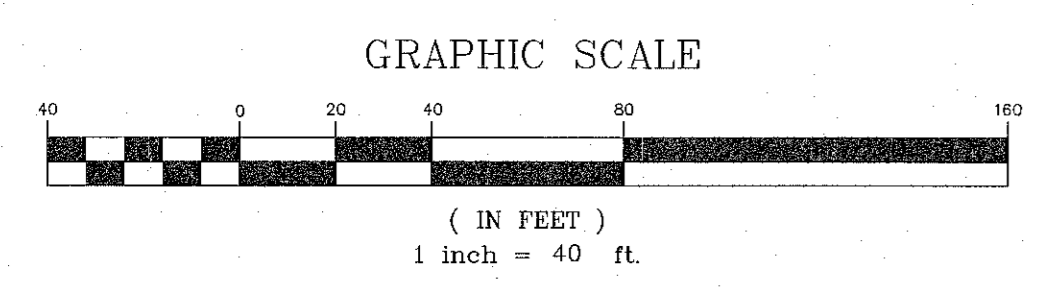
NOTE:
 THE WETLAND DELINEATION WAS CONDUCTED BY
 GODDARD CONSULTANT, LLC
 291 MAIN STREET, NORTHBOROUGH, MA 01532

PLAN REFERENCE:
 NORFOLK REGISTRY OF DEEDS
 1) FILED AS No. 973 OF 1981, PL.BK. 292.
 2) FILED AS No. 541 OF 1971, PL.BK. 228.
 3) PL.No. 389 OF 1979, PL.BK. 275.

SUMMER STREET



— DENOTES GRANITE BOUND WITH DRILL HOLE TO BE SET



I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES & REGULATIONS OF THE REGISTER OF DEEDS.

THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS.

JOYCE E. HASTINGS
 No. 39393
 REGISTERED PROFESSIONAL LAND SURVEYOR

J. Hastings
 JOYCE E. HASTINGS P.L.S.

DATE: 8/22/23

APPROVED BY THE WALPOLE PLANNING BOARD:

DATE APPROVED: _____

DATE ENDORSED: _____

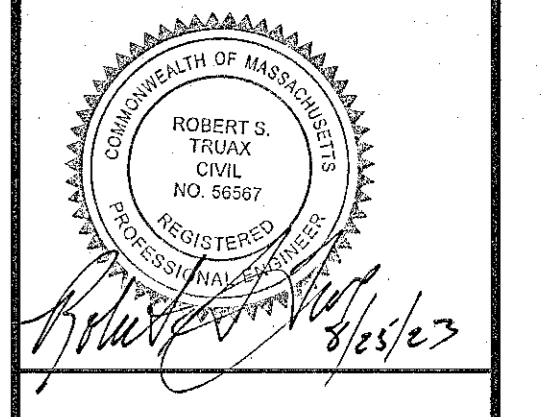
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TOWN CLERK _____ DATE _____

LAYOUT

NO.	DATE	DESCRIPTION
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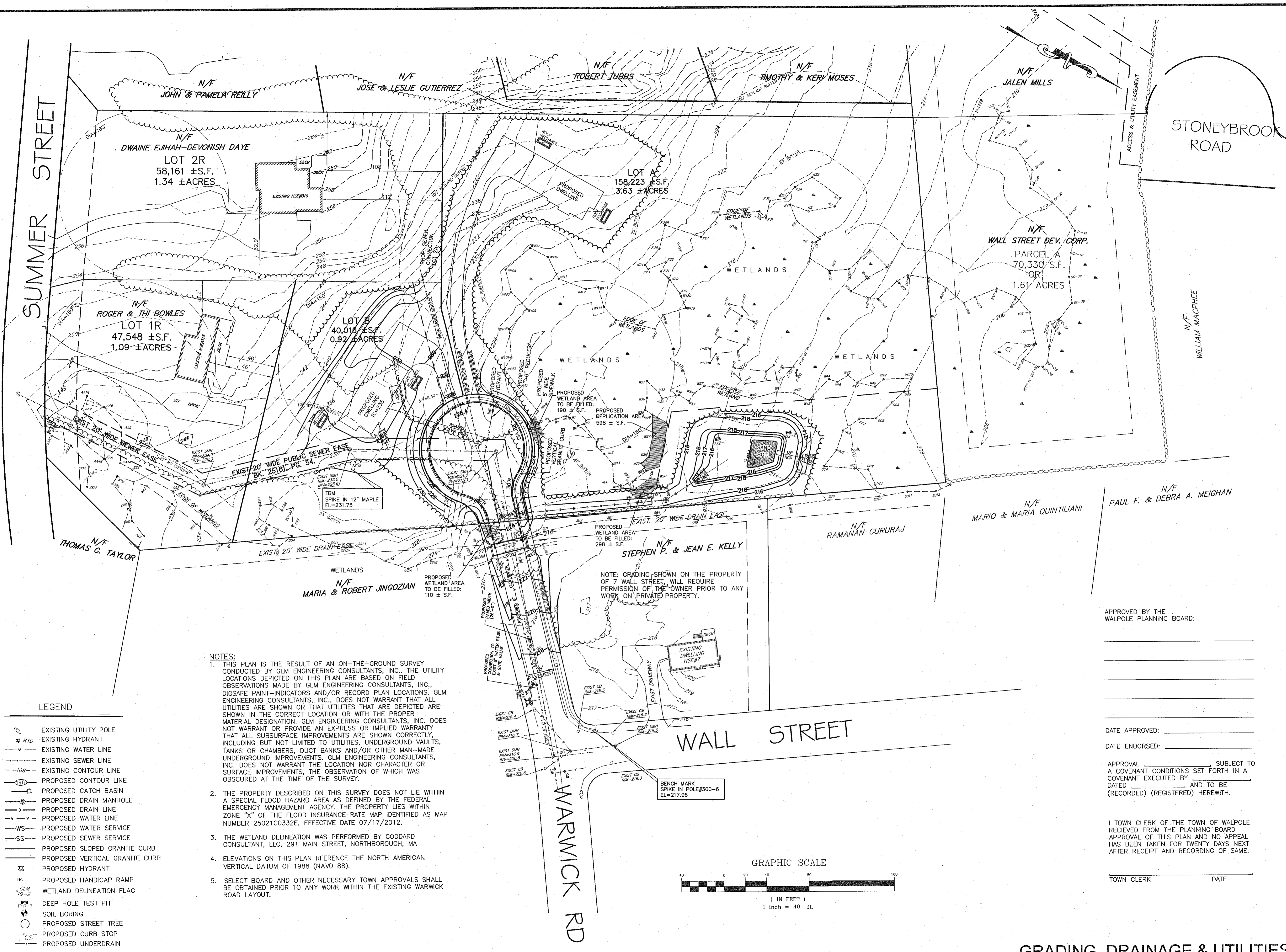


DEFINITIVE SUBDIVISION PLAN
 " WARWICK ROAD EXTENSION
 WALPOLE, MASSACHUSETTS

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SUMMER STREET

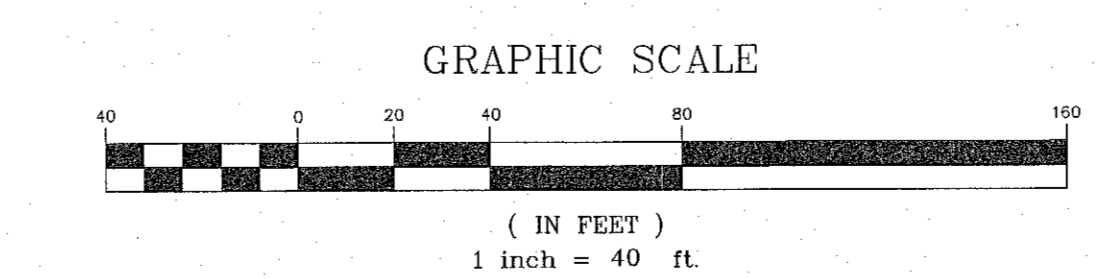
STONEBROOK ROAD

WALL STREET

WARWICK RD

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- LEGEND**
- EXISTING UTILITY POLE
 - EXISTING HYDRANT
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 - PROPOSED CONTOUR LINE
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APPROVED BY THE
WALPOLE PLANNING BOARD:

DATE APPROVED: _____

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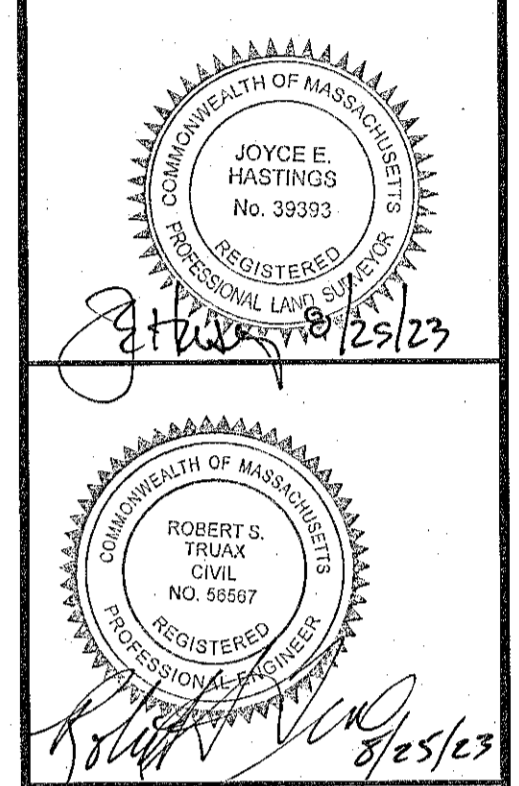
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TOWN CLERK _____ DATE _____

REVISIONS

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2	1/19/2023	PLG. BRD. ENG. COMMENTS
3	6/01/2023	PLG. BRD. & ENG. COMMENTS
4	8/25/2023	PLG. BRD. & ENG. COMMENTS



**DEFINITIVE SUBDIVISION PLAN
" WARWICK ROAD EXTENSION
WALPOLE, MASSACHUSETTS**

PREPARED FOR:
WALL STREET DEVELOPMENT CORP.
WESTWOOD, MASSACHUSETTS 02090

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HOLLISTON, MA 01746
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JOB No.	17,282
DATE:	August 22, 2022
SCALE:	1"=40'
SHEET:	4 of 12
PLAN #:	27,566

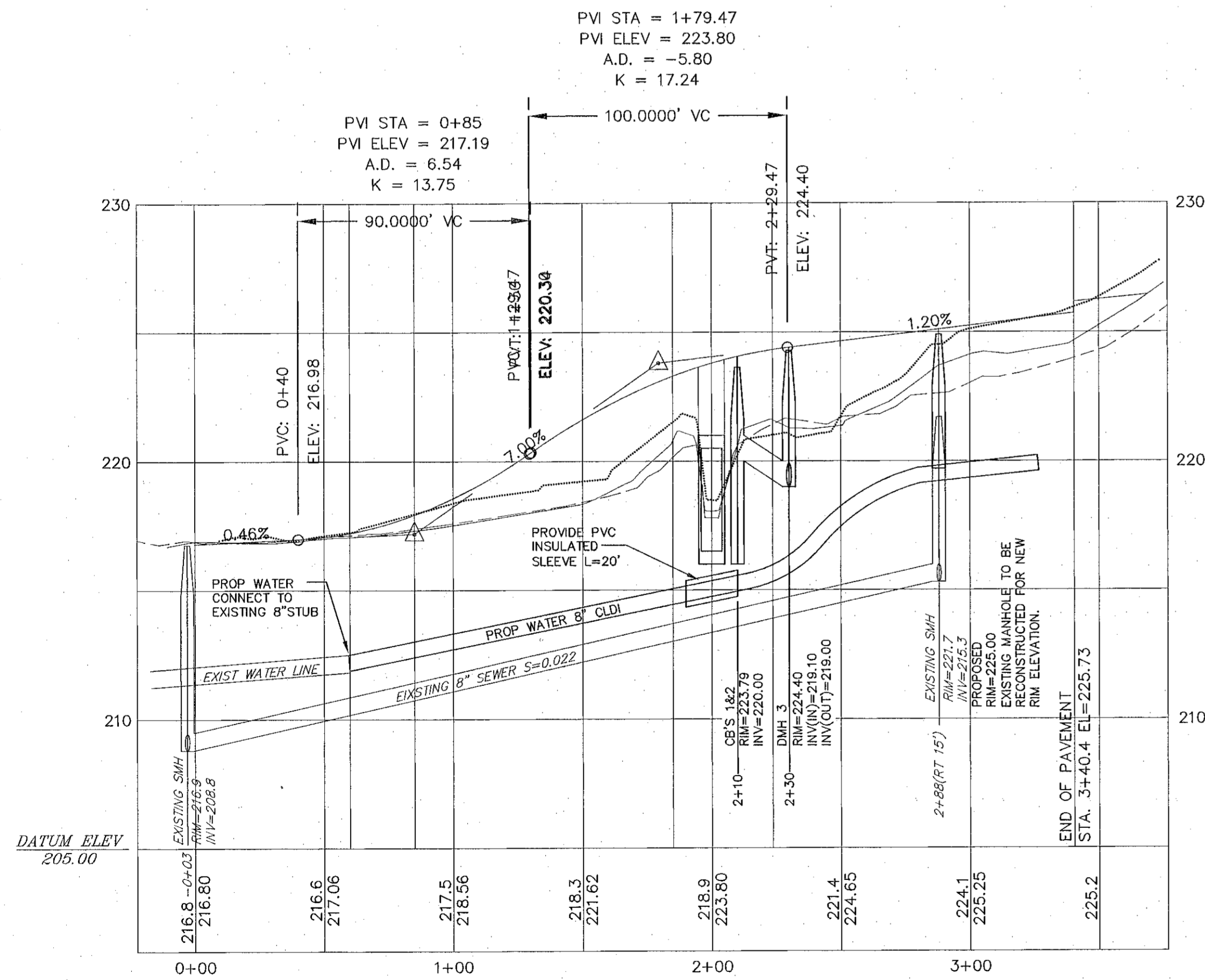
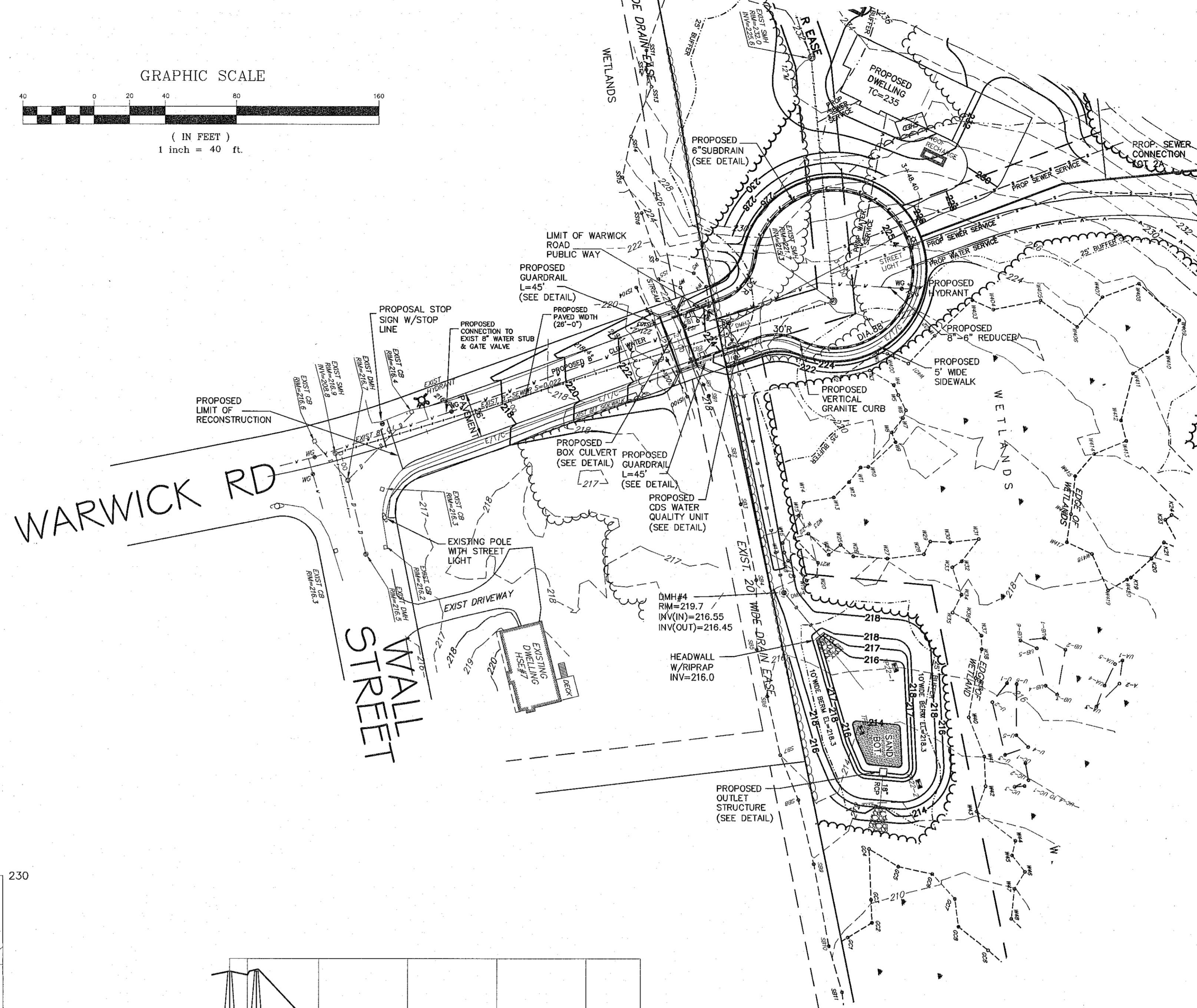
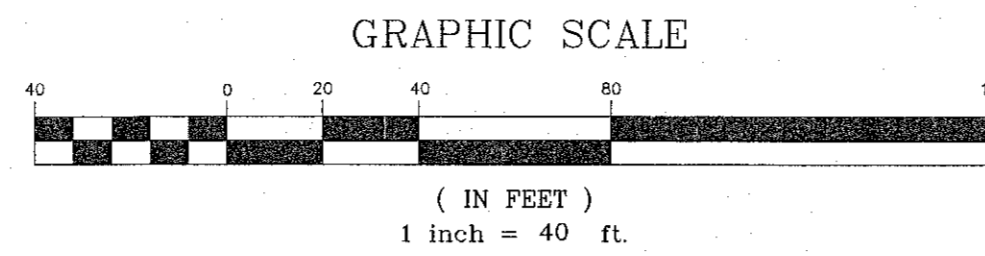
GRADING, DRAINAGE & UTILITIES

NOTES:

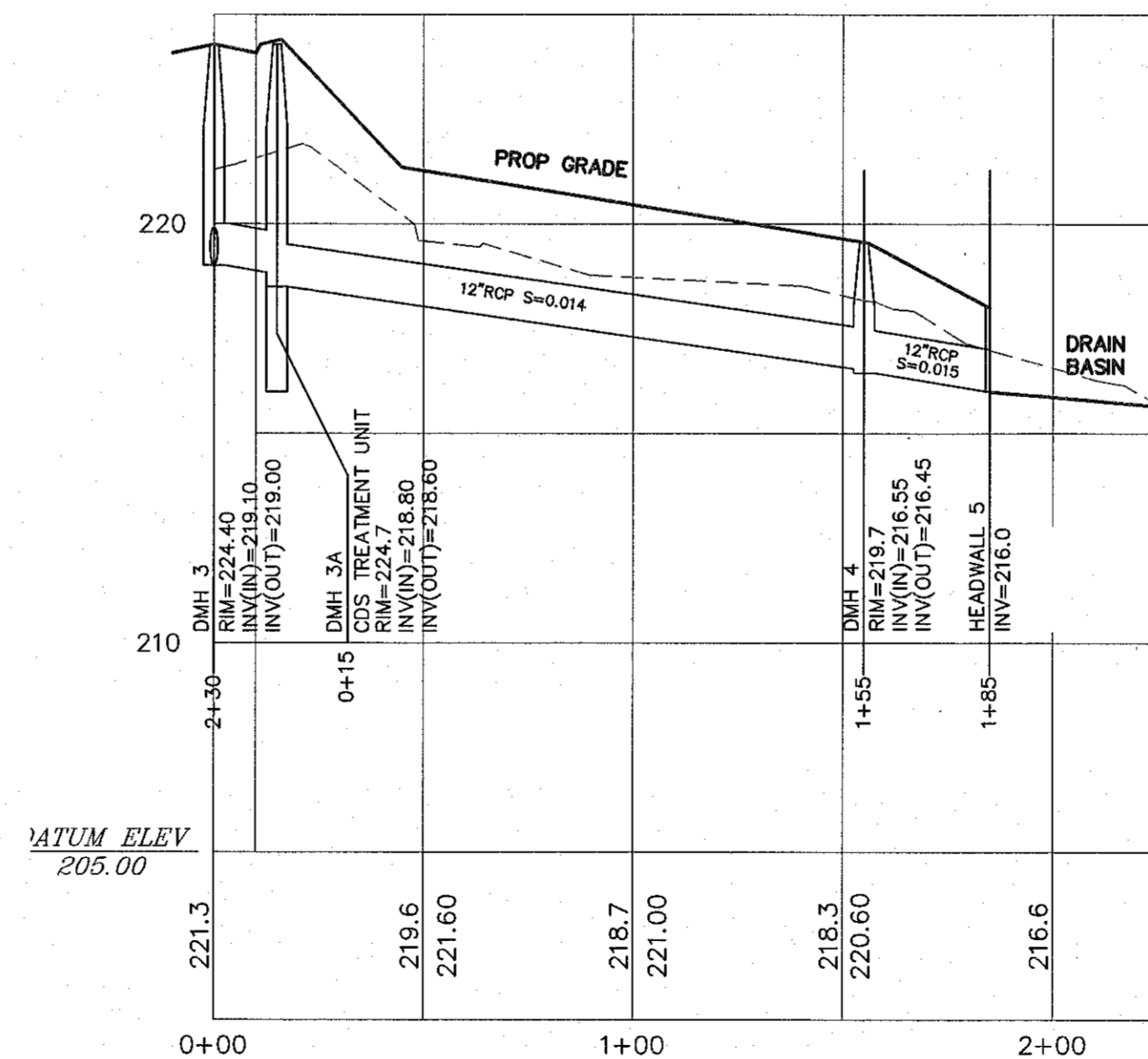
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WARWICK ROAD PROFILE
Scale: Horiz: 1"=40'; Vert: 1"=4'



DRAIN PROFILE
Scale: Horiz: 1"=40'; Vert: 1"=4'

APPROVED BY THE
WALPOLE PLANNING BOARD:

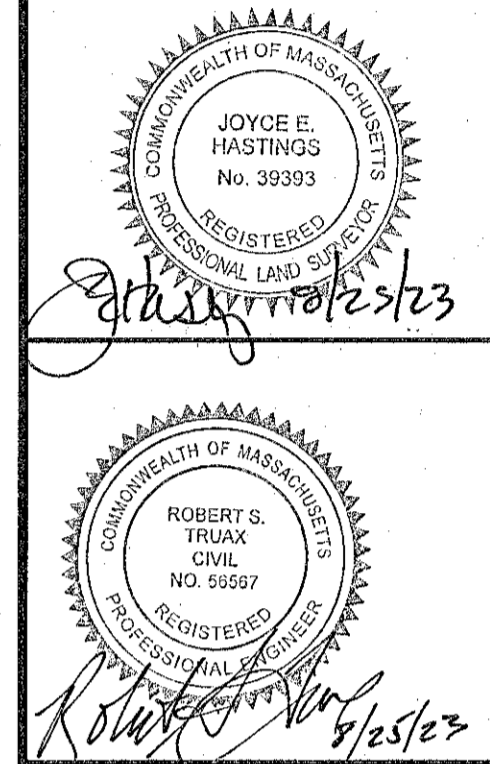
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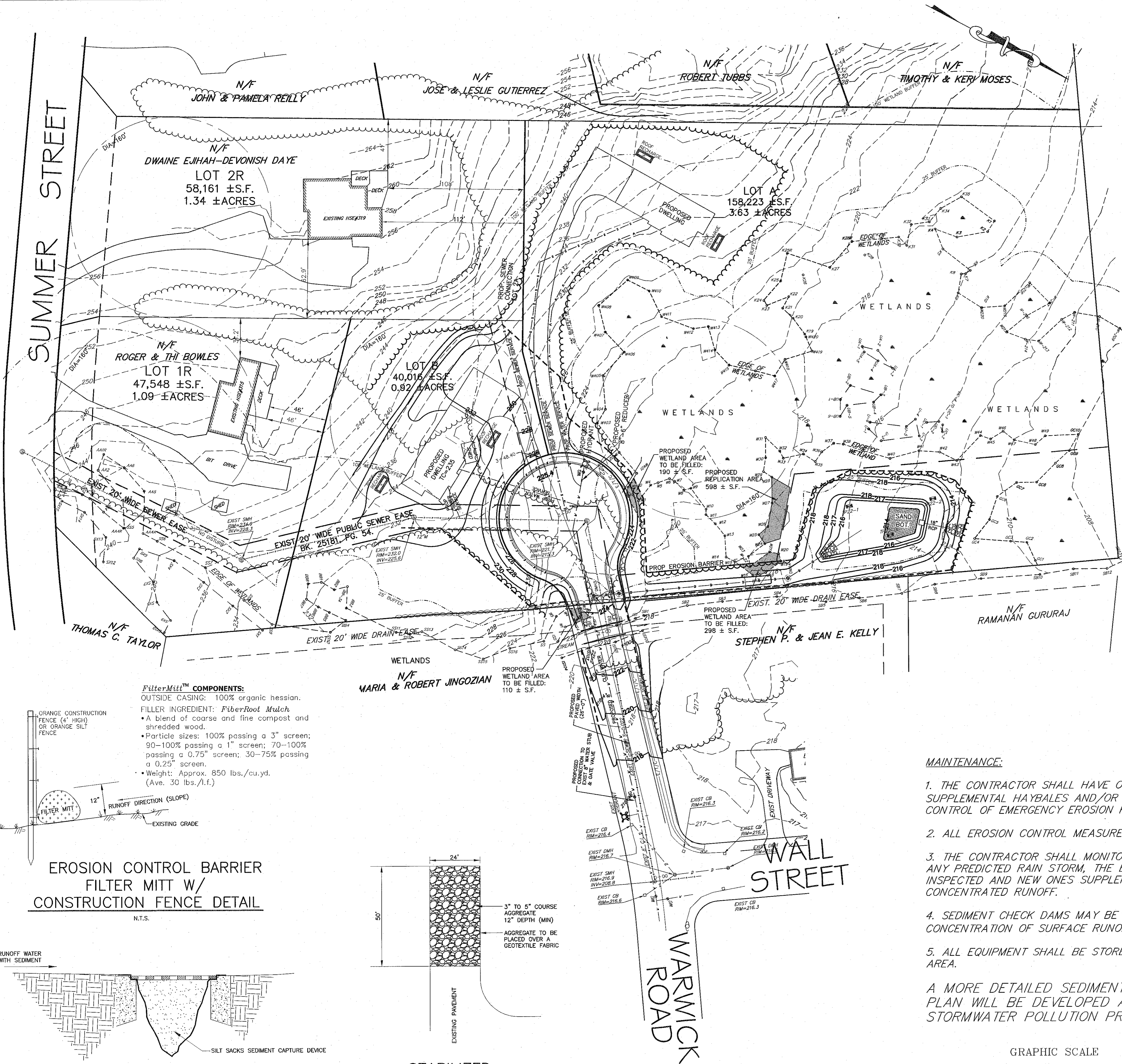
**DEFINITIVE SUBDIVISION PLAN
"W" WARWICK ROAD EXTENSION
WALPOLE, MASSACHUSETTS**

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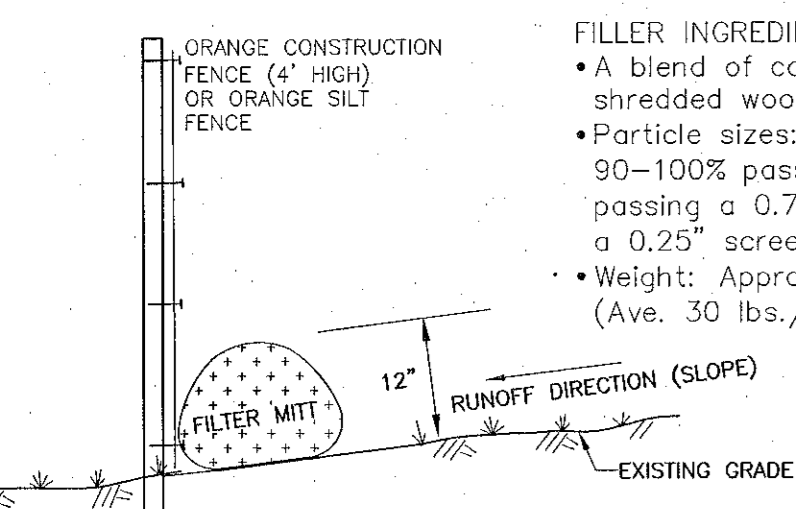
PLAN & PROFILE



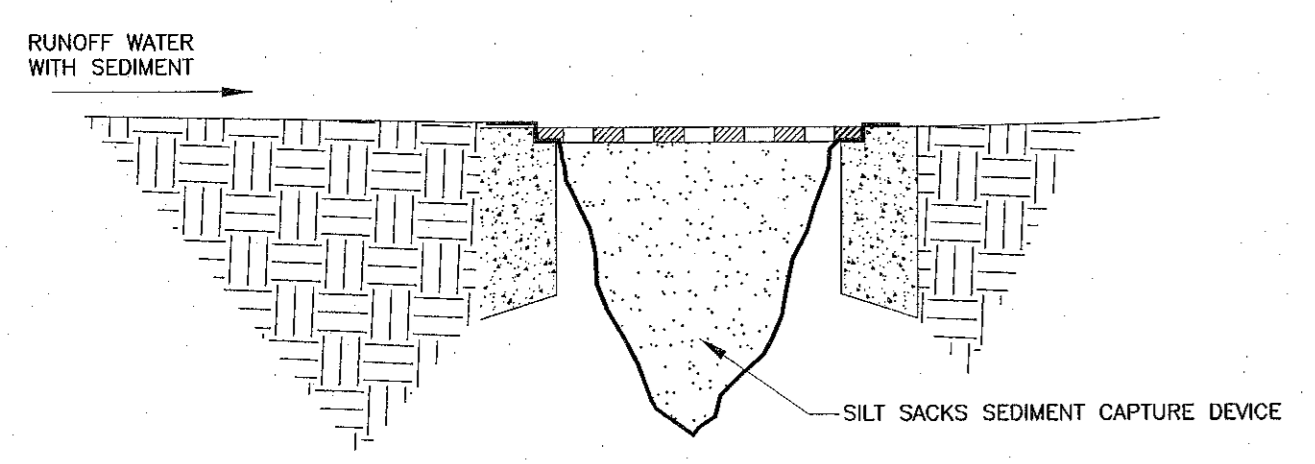
- EROSION AND SEDIMENTATION CONTROL:**
1. PRIOR TO ANY DISTURBANCE OR ALTERATIONS ON ANY AREA ON THE SITE, THE FILTER MITT SEDIMENT BARRIER SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE SITE PLAN.
 2. BARRIERS SHALL BE CONSTRUCTED AS SHOWN ON THE FILTER MITT DETAIL WITH CONSTRUCTION FENCE DETAIL ABOVE.
 3. ONCE INSTALLED, THE FILTER MITT SEDIMENT BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL ALL AREAS UPGRADIENT FROM THE BARRIERS HAVE BEEN STABILIZED AS SPECIFIED HEREIN. UPON COMPLETION AND STABILIZATION OF THE PROJECT, THE FILTER MITT AND CONSTRUCTION FENCE SHALL BE REMOVED.
 4. THE ORANGE CONSTRUCTION FENCE IS INTENDED TO ACT AS A LIMIT OF DISTURBANCE. ANY LAND DOWN GRADIENT FROM THE FENCE ACCIDENTALLY DISTURBED SHALL BE IMMEDIATELY REPAIRED AND RESTORED TO ORIGINAL CONDITION.
 5. EROSION CONTROL MEASURES SHALL BE MONITORED ON A DAILY BASIS, OR AS NEEDED, AND BE REINFORCED, REPAIRED, OR REPLACED WHEN NEEDED, PER JUDGEMENT OF THE SITE FOREMAN AND/OR TOWN OF WALPOLE REPRESENTATIVE.
 6. TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASE FOR AT LEAST 30 DAYS. AREAS SHALL BE STABILIZED WITH TEMPORARY SEED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEEDING WHEN WEATHER CONDITIONS ALLOW.
 7. AFTER THE PAVEMENT IS CUT AT THE INTERSECTION WALL ST. AND WARWICK THE THE FIRST FIFTY (50) FEET OF THE NEWLY CONSTRUCTED ROADWAY SHALL HAVE STONE CONSTRUCTION PAD (SEE DETAIL).
 8. WATER SPRAYING SHALL BE UTILIZED ON ALL DISTURBED AREAS DURING DRY WEATHER TO PREVENT DUST. A WATER TRUCK SHALL BE KEPT ON SITE AT ALL TIMES DURING THE DURING THE SUMMER MONTHS OF CONSTRUCTION.
 9. SILT SACKS SHALL BE INSTALLED IN THE EXISTING CATCH BASINS ON WARWICK ROAD AND AT THE INTERSECTION OF WALL STREET PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION.
 10. FOLLOWING CONSTRUCTION OF THE CATCH BASIN STRUCTURES SILT SACKS SHALL INSTALLED FOR EACH STRUCTURE TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM AND MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION.
 11. NO SLOPES, EITHER TEMPORARY OR PERMANT SHALL BE STEEPER THAN TWO TO 1 (2:1).
 12. STREET SWEEPING SHALL BE DONE AS NEEDED BASIS ALONG WARWICK ROAD AND WALL STREET TO THE LIMITS OF SEDIMENT TRACKING.
 13. STOCKPILE MATERIAL SHALL BE SECURED AROUND THE PERIMETER WITH EROSION CONTROL BARRIERS.

- MAINTENANCE:**
1. THE CONTRACTOR SHALL HAVE ON SITE AN ADEQUATE QUANTITY OF SUPPLEMENTAL HAYBALES AND/OR SILT SOCK TO BE USED FOR CONTROL OF EMERGENCY EROSION PROBLEMS.
 2. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY.
 3. THE CONTRACTOR SHALL MONITOR DAILY WEATHER AND PRIOR TO ANY PREDICTED RAIN STORM, THE EROSION BARRIERS SHALL BE INSPECTED AND NEW ONES SUPPLEMENTED IN ANY AREAS OF POSSIBLE CONCENTRATED RUNOFF.
 4. SEDIMENT CHECK DAMS MAY BE INSTALLED IN AREA OF HIGH CONCENTRATION OF SURFACE RUNOFF.(SEE DETAIL)
 5. ALL EQUIPMENT SHALL BE STORED IN THE DESIGNATED STAGING AREA.
- A MORE DETAILED SEDIMENT AND EROSION CONTROL PLAN WILL BE DEVELOPED AS PART OF THE NPDES STORMWATER POLLUTION PREVENTION PLAN.

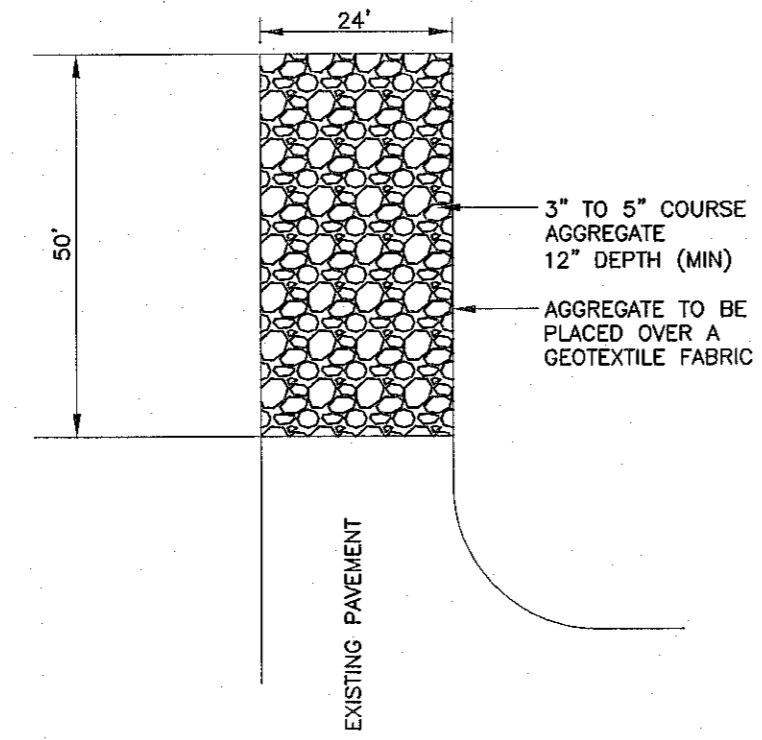
FilterMitt™ COMPONENTS:
 OUTSIDE CASING: 100% organic hession.
 FILLER INGREDIENT: *FiberRoot Mulch*
 • A blend of coarse and fine compost and shredded wood.
 • Particle sizes: 100% passing a 3" screen; 90-100% passing a 1" screen; 70-100% passing a 0.75" screen; 30-75% passing a 0.25" screen.
 • Weight: Approx. 850 lbs./cu.yd. (Ave. 30 lbs./l.f.)



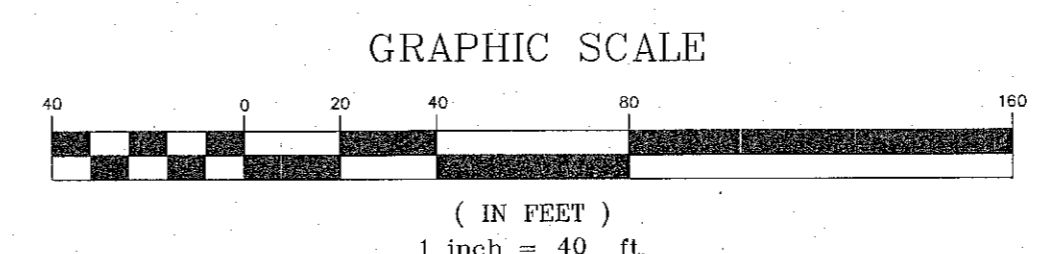
**EROSION CONTROL BARRIER
 FILTER MITT W/
 CONSTRUCTION FENCE DETAIL**
 N.T.S.



SILT SACK CATCH BASIN INLET
 NOT TO SCALE



**STABILIZED
 CONSTRUCTION PAD**
 NOT TO SCALE



APPROVED BY THE
 WALPOLE PLANNING BOARD:

DATE APPROVED: _____
 DATE ENDORSED: _____

APPROVAL _____ SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____ DATED _____ AND TO BE (RECORDED) (REGISTERED) HEREWITH.

I, TOWN CLERK OF THE TOWN OF WALPOLE RECEIVED FROM THE PLANNING BOARD APPROVAL OF THIS PLAN AND NO APPEAL HAS BEEN TAKEN FOR TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK _____ DATE _____

NO.	DATE	DESCRIPTION
1	12/15/2022	CONSERVATION ENG. COMMENTS
2	1/19/2023	PLG. BRD. & ENG. COMMENTS
3	6/01/2023	PLG. BRD. & ENG. COMMENTS
4	8/25/2023	PLG. BRD. & ENG. COMMENTS

JOYCE E. HASTINGS
 No. 93953
 REGISTERED PROFESSIONAL ENGINEER
 8/25/23

ROBERT S. TRUAX
 CIVIL
 No. 55907
 REGISTERED PROFESSIONAL ENGINEER
 8/25/23

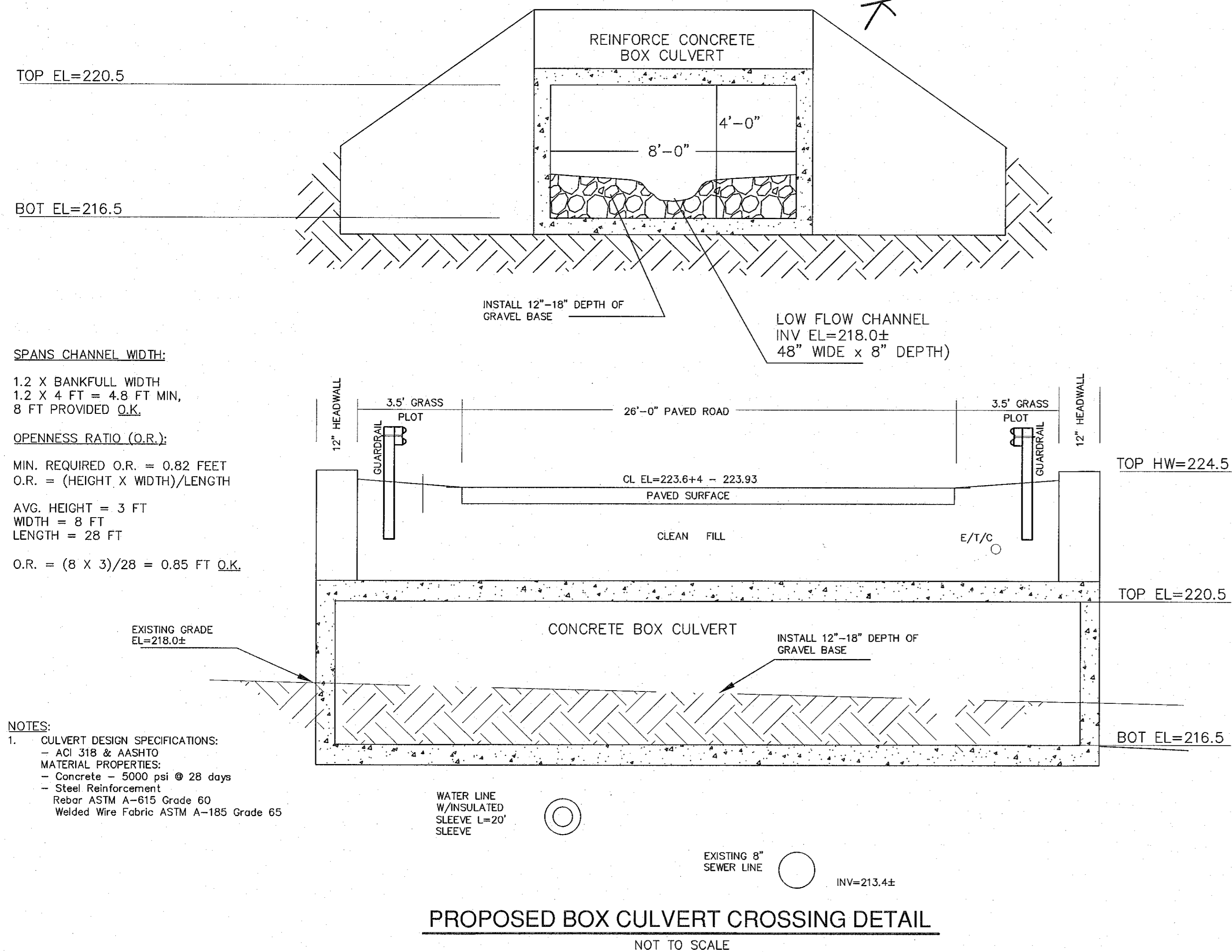
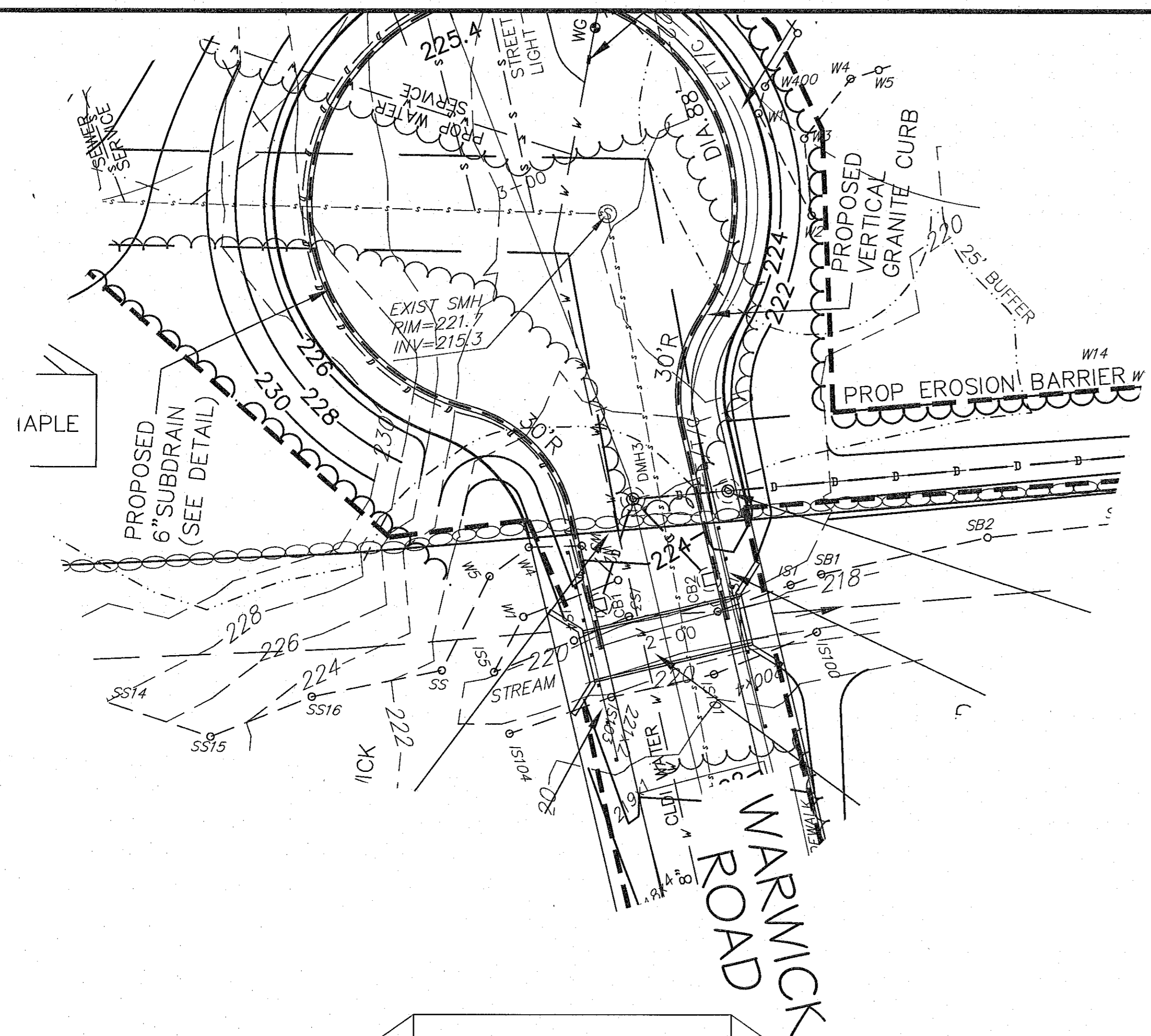
**DEFINITIVE SUBDIVISION PLAN
 "WARWICK ROAD EXTENSION
 WALPOLE, MASSACHUSETTS**

PREPARED FOR:
 WALL STREET DEVELOPMENT CORP.
 P.O. BOX 2712
 WESTWOOD, MASSACHUSETTS 02090

GLM Engineering Consultants, Inc.
 19 EXCHANGE STREET
 HOLLISTON, MA 01746
 P: 508-429-1100
 F: 508-429-7160
 www.GLMengineering.com

JOB No.	17,282
DATE:	August 22, 2022
SCALE:	1"=40'
SHEET:	6 of 12
PLAN #:	27,566

EROSION CONTROL PLAN

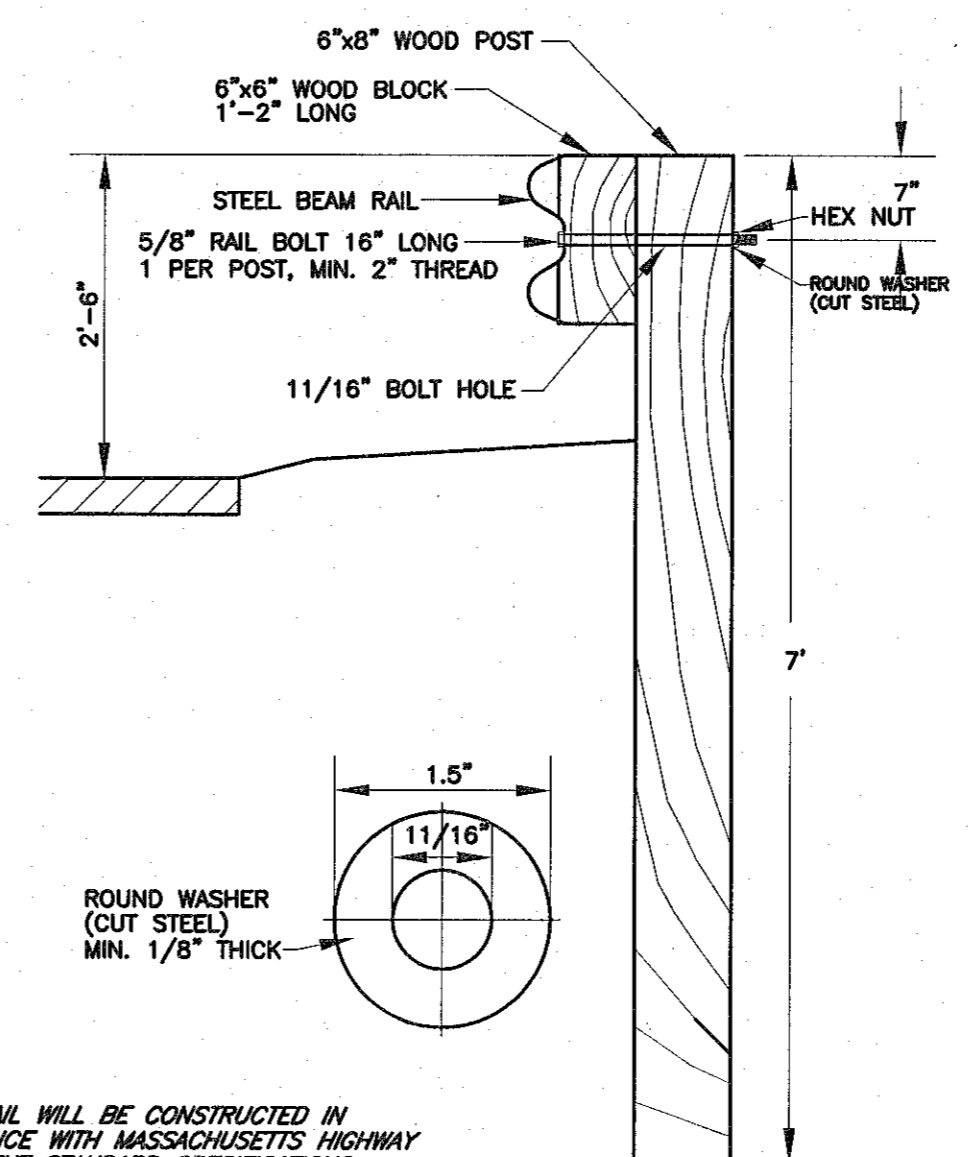


SPANS CHANNEL WIDTH:
 1.2 X BANKFULL WIDTH
 1.2 X 4 FT = 4.8 FT MIN,
 8 FT PROVIDED O.K.

OPENNESS RATIO (O.R.):
 MIN. REQUIRED O.R. = 0.82 FEET
 O.R. = (HEIGHT X WIDTH)/LENGTH
 AVG. HEIGHT = 3 FT
 WIDTH = 8 FT
 LENGTH = 28 FT
 O.R. = (8 X 3)/28 = 0.85 FT O.K.

- NOTES:**
- CULVERT DESIGN SPECIFICATIONS:
 - ACI 318 & AASHTO
 - MATERIAL PROPERTIES:
 - Concrete - 5000 psi @ 28 days
 - Steel Reinforcement Rebar ASTM A-615 Grade 60
 - Welded Wire Fabric ASTM A-185 Grade 65

PROPOSED BOX CULVERT CROSSING DETAIL
 NOT TO SCALE



NOTE:
 GUARD RAIL WILL BE CONSTRUCTED IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS.

SINGLE FACE GUARD RAIL WITH WOOD POST
 N.T.S.

APPROVED BY THE
 WALPOLE PLANNING BOARD:

DATE APPROVED: _____

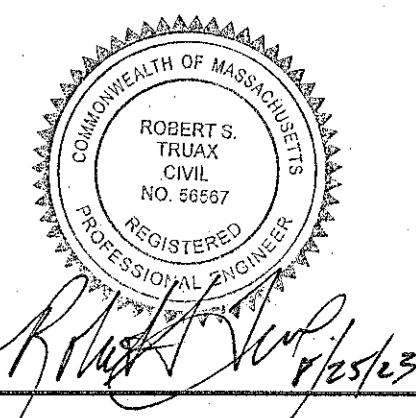
DATE ENDORSED: _____

APPROVAL _____ SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY _____ DATED _____ AND TO BE (RECORDED) (REGISTERED) HEREWITH.

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	4	8/25/2023	PLG. BRD. & ENG. COMMENTS



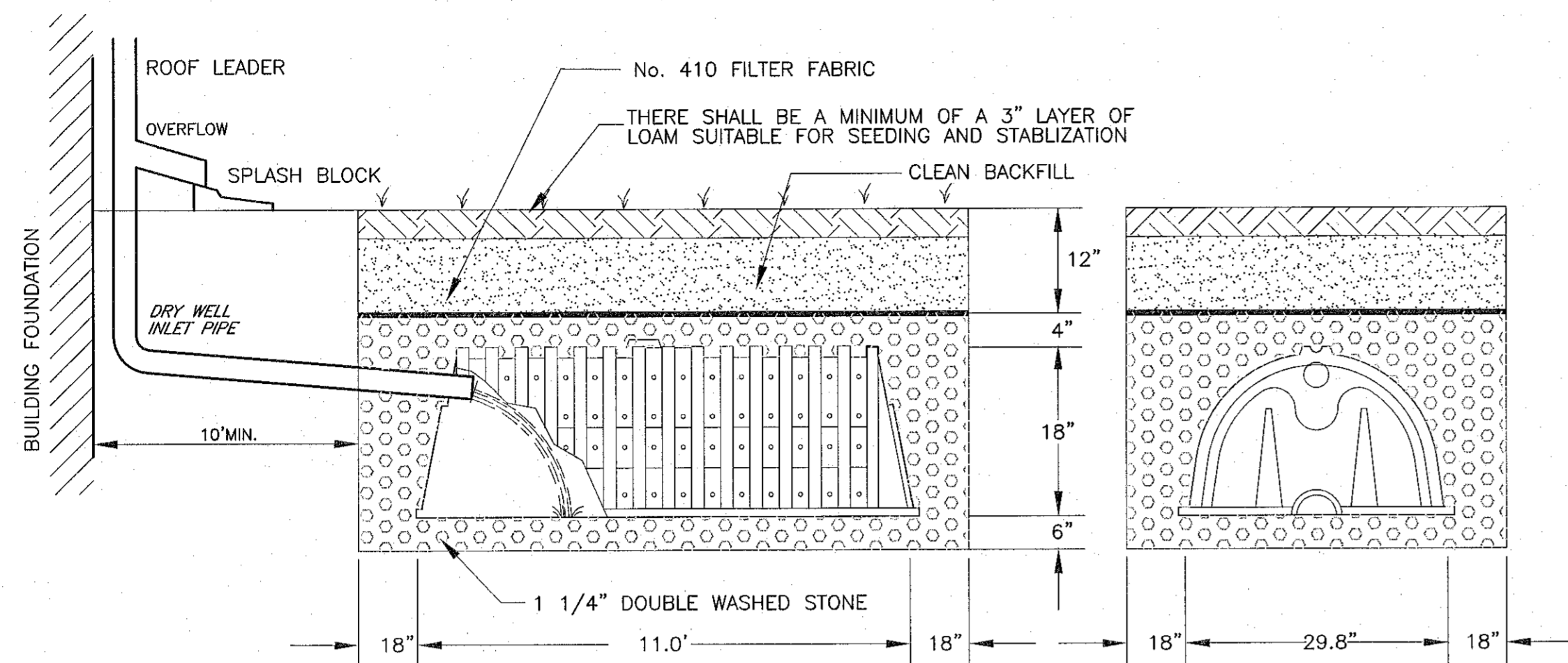
**DEFINITIVE SUBDIVISION PLAN
 "WARWICK ROAD EXTENSION
 WALPOLE, MASSACHUSETTS**

PREPARED FOR:
 WALL STREET DEVELOPMENT CORP.
 P.O. BOX 272
 WESTWOOD, MASSACHUSETTS 02090

GLM Engineering Consultants, Inc.
 19 EXCHANGE STREET
 HOLLISTON, MA 01746
 P: 508-429-1100
 F: 508-429-7160
 www.GLMengineering.com

JOB No.	17,282
DATE:	August 22, 2022
SCALE:	1"=20'
SHEET:	7 of 12
PLAN #:	27,566

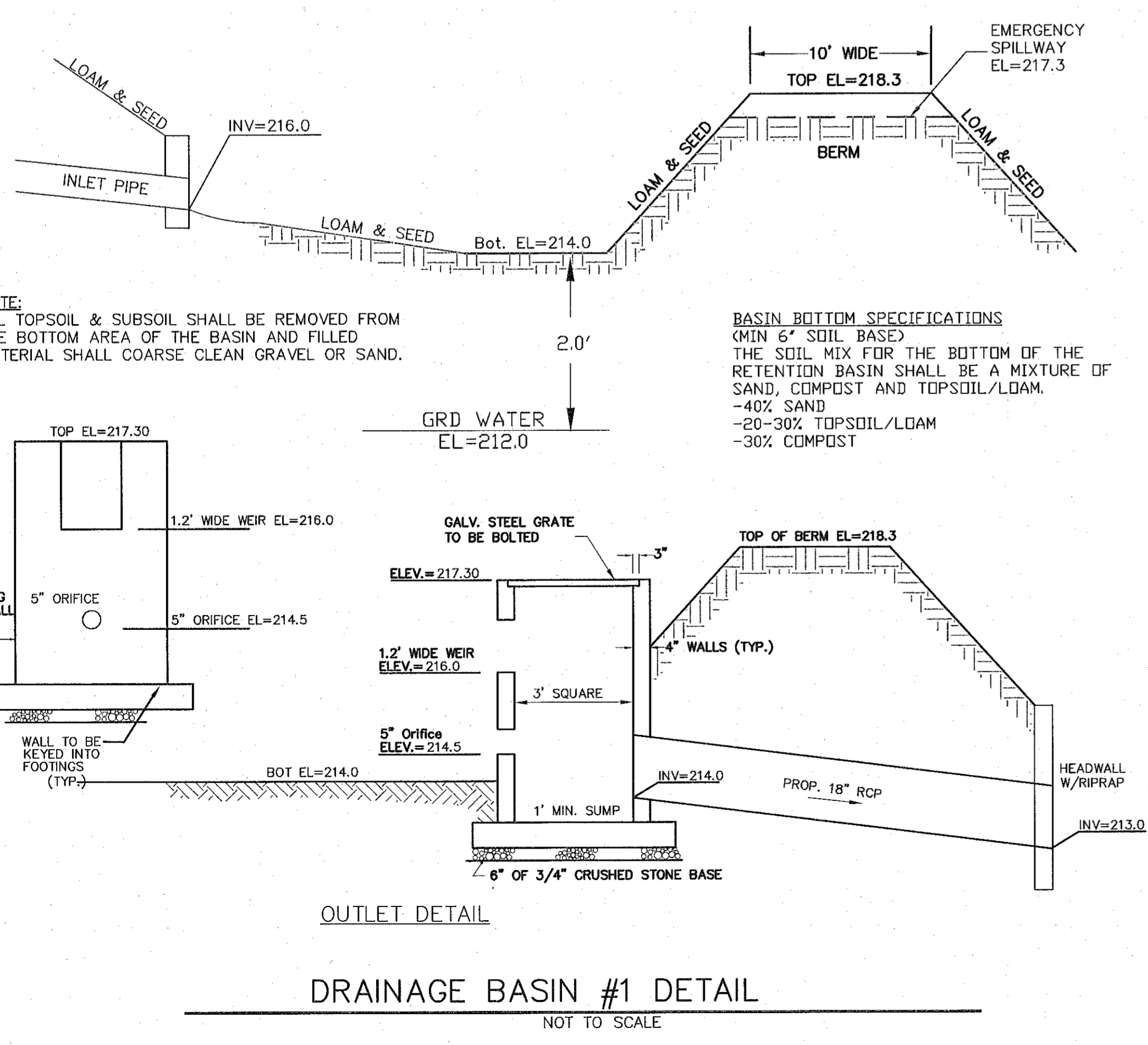
DETAILS



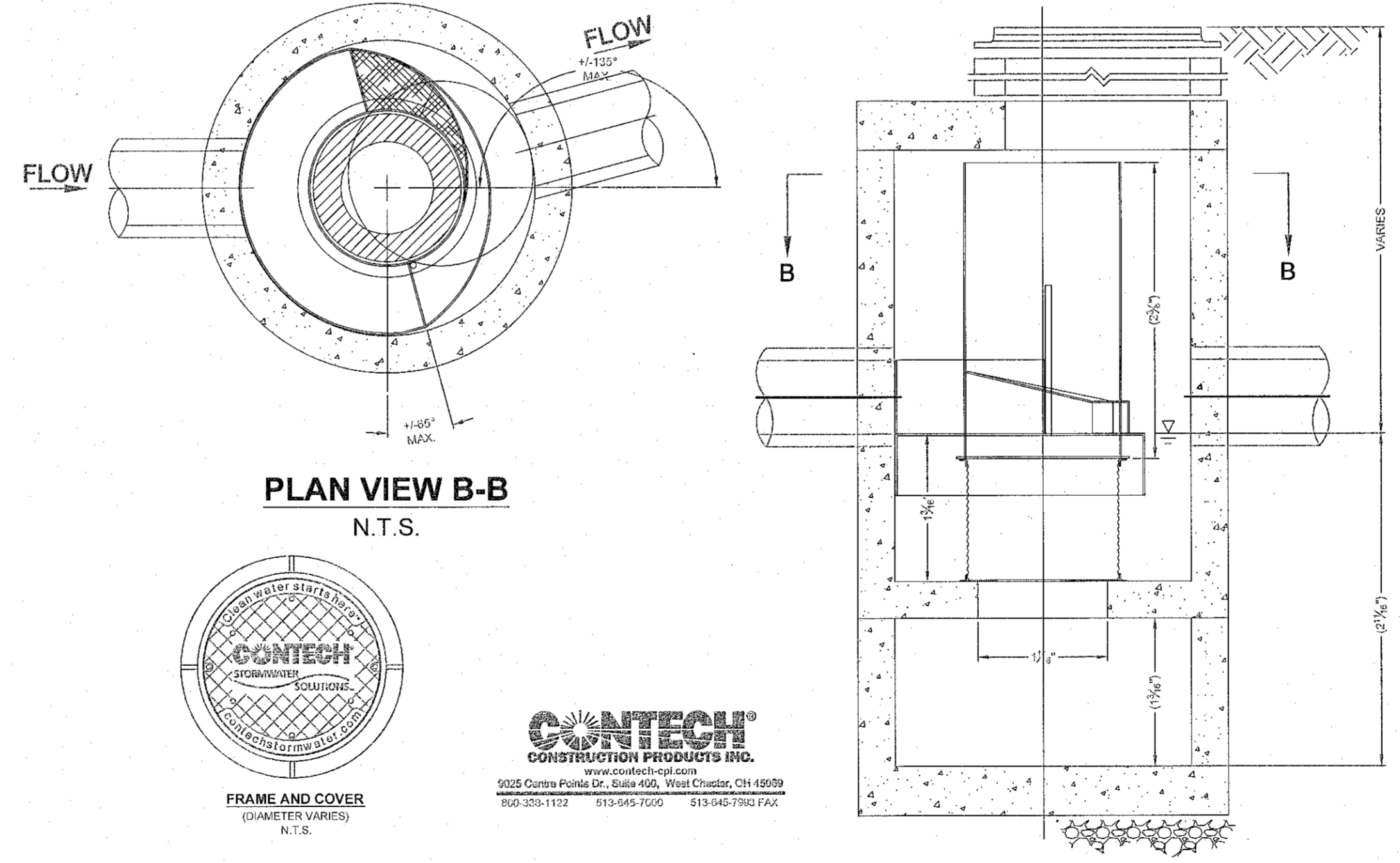
LEACHING PIT STORAGE REQUIRED:
 PROPOSED DWELLING IMPERVIOUS AREA = 2100 sq.ft.
 STORAGE CAPACITY REQUIRED: 1.0 inch rainfall x 2100 s.f. = 175 cu. ft.
 PROVIDED LEACHING CAPACITY:
 CULTEC RECHARGERS C-150XLHD
 STORAGE VOLUME PER INSTALLED UNIT = 94.0 cu.ft. (CULTEC GUIDELINES)
 2-SYSTEMS PER HSE = 188 cu.ft.

*PROVIDE TWO (2) SYSTEMS, ONE AT EACH END OF THE HOUSE
 NOTE ALL ROOF RUNOFF SHALL BE DIRECTED TO INFILTRATIONS SYSTEM
 *THE EXACT SIZING AND DESIGN SHALL BE PROVIDED WHEN FINAL HOUSE PLANS ARE SUBMITTED FOR EACH INDIVIDUAL BUILDING PERMIT APPLICATION.

**RESIDENTIAL ROOF RUNOFF CULTEC DRY WELL
 CULTEC CONTACTOR RECHARGER C-150HD**
 N.T.S.



DRAINAGE BASIN #1 DETAIL
 NOT TO SCALE



PLAN VIEW B-B
 N.T.S.

ELEVATION A-A
 N.T.S.

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE. www.contech-cpi.com
 - CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE SHALL MEET AASHRO H220 AND CASTINGS SHALL MEET AASHRO M30E LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
 - PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- INSTALLATION NOTES**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**WATER QUALITY UNIT DETAIL
 CDS1515-3-C CDS INLINE STANDARD DETAIL**
 NOT TO SCALE

APPROVED BY THE
 WALPOLE PLANNING BOARD:

DATE APPROVED: _____
 DATE ENDORSED: _____

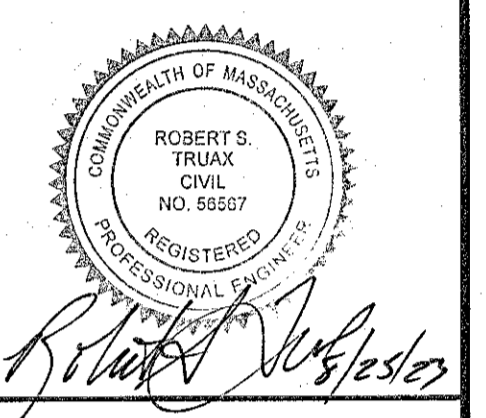
APPROVAL _____ SUBJECT TO
 A COVENANT CONDITIONS SET FORTH IN A
 COVENANT EXECUTED BY _____
 DATED _____ AND TO BE
 (RECORDED) (REGISTERED) HEREWITH.

I TOWN CLERK OF THE TOWN OF WALPOLE
 RECEIVED FROM THE PLANNING BOARD
 APPROVAL OF THIS PLAN AND NO APPEAL
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TOWN CLERK _____ DATE _____

DETAILS

REVISIONS		DESCRIPTION
No.	DATE	CONSERVATION ENG. COMMENTS
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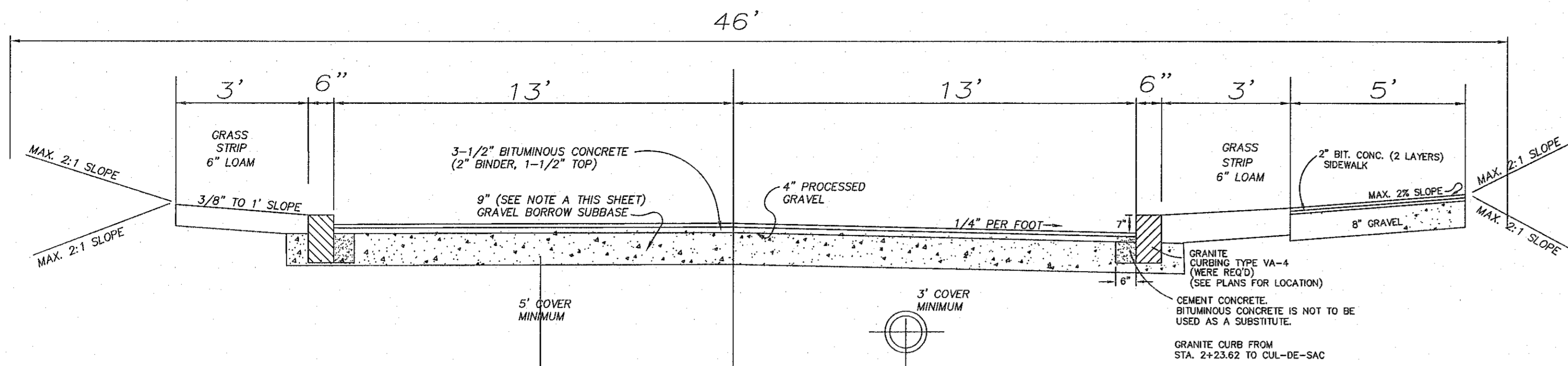


**DEFINITIVE SUBDIVISION PLAN
 " WARWICK ROAD EXTENSION
 WALPOLE, MASSACHUSETTS**

PREPARED FOR:
 WALL STREET DEVELOPMENT CORP.
 P.O. BOX 272
 WESTWOOD, MASSACHUSETTS 02090

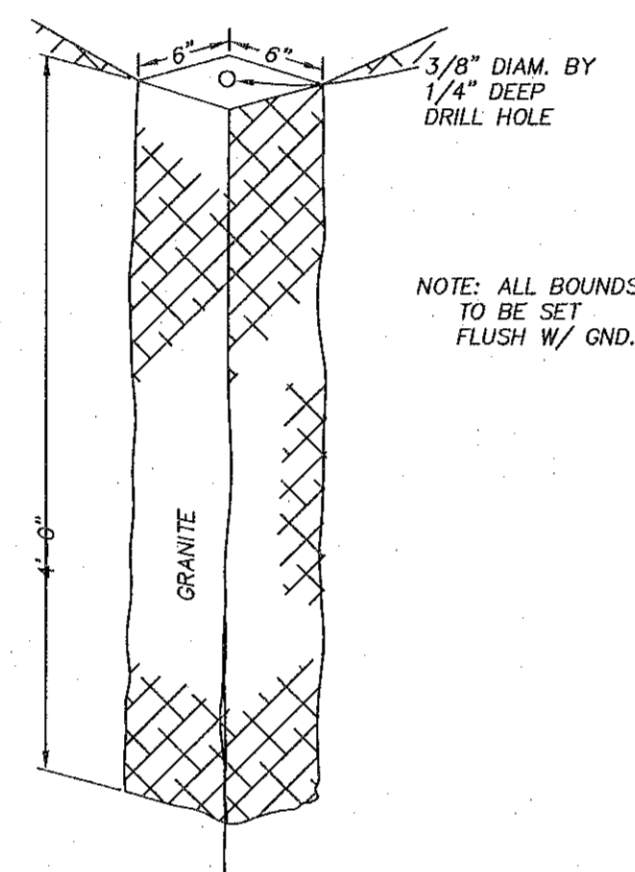
GLM Engineering
 Consultants, Inc.
 19 EXCHANGE STREET
 HOLLISTON, MA 01746
 P: 508-429-1100
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www.GLMengineering.com

JOB No.	17,282
DATE:	August 22, 2022
SCALE:	1"=20'
SHEET:	8 of 12
PLAN #:	27,566

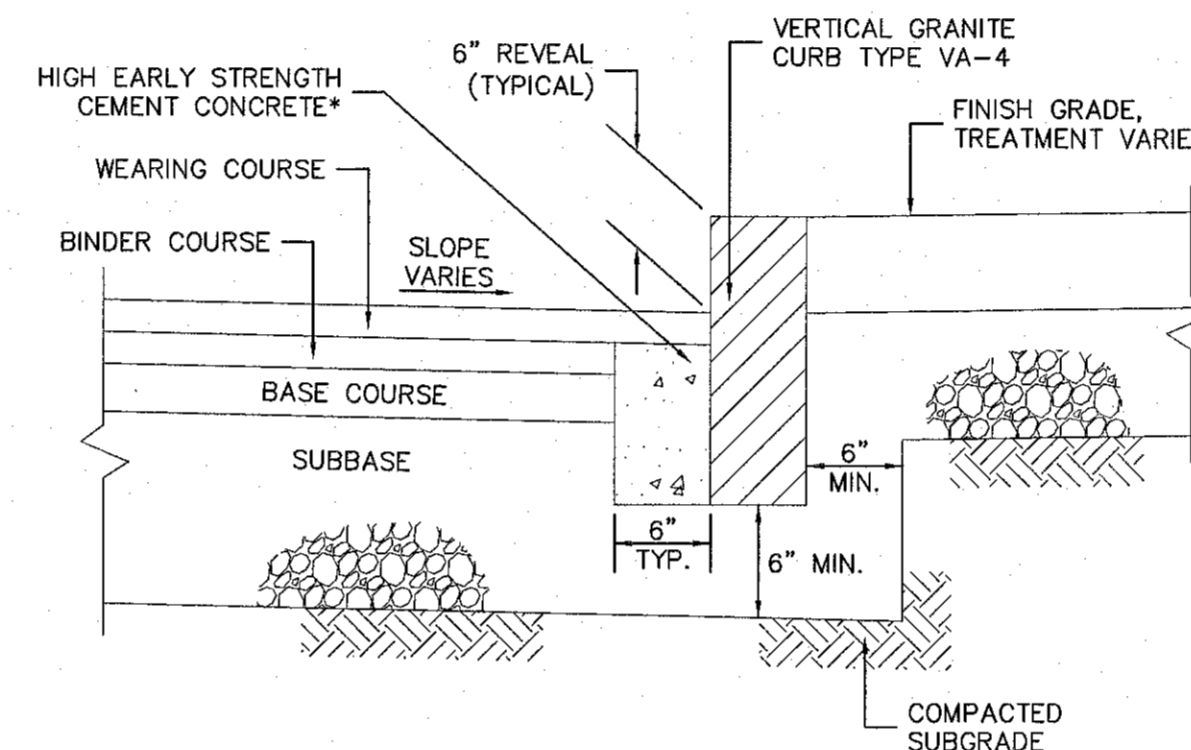


- NOTES:
- A). GRAVEL BORROW SUBBASE SHALL CONFORM TO SECTION M1.03.0 TYPE B, THREE INCHES LARGEST DIMENSION OF THE LATEST EDITION OF THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (STANDARD SPECIFICATIONS).
 - B). GRAVEL BORROW SUBBASE SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY DENSITY OF THE MATERIAL AS DETERMINED BY THE STANDARD AASHTO TEST DESIGNATION T99 COMPACTION TEST METHOD C AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE ENGINEER.
 - C). "TAC COAT" AS SPECIFIED IN SECTION 486.61 OF THE STANDARD SPECIFICATIONS SHALL BE APPLIED BY "TAC TRUCK" BETWEEN ASPHALT LAYERS OR AS DETERMINED BY THE ENGINEER.
 - D). SOILS TESTING INCLUDING SIEVE ANALYSIS, PROCTOR TESTING AND COMPACTION TESTING SHALL BE PREFORMED ONCE EVERY 100 FEET OF PAVED ROADWAY ALONG THE CENTERLINE OF THE ROADWAY OR AS DIRECTED BY THE ENGINEER.
 - E). SIDEWALK RAMPS MUST MEET CURRENT APPLICABLE ADA / AAB STANDARDS.

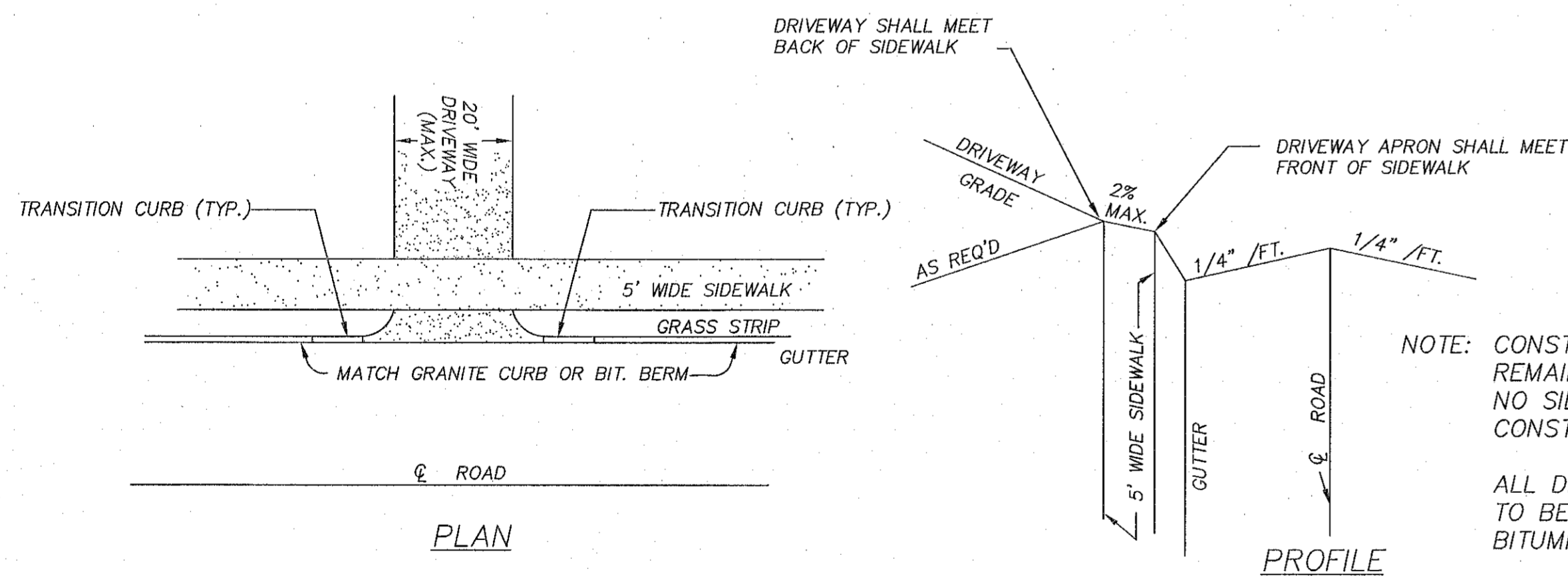
TYPICAL CROSS SECTION
(NO SCALE)



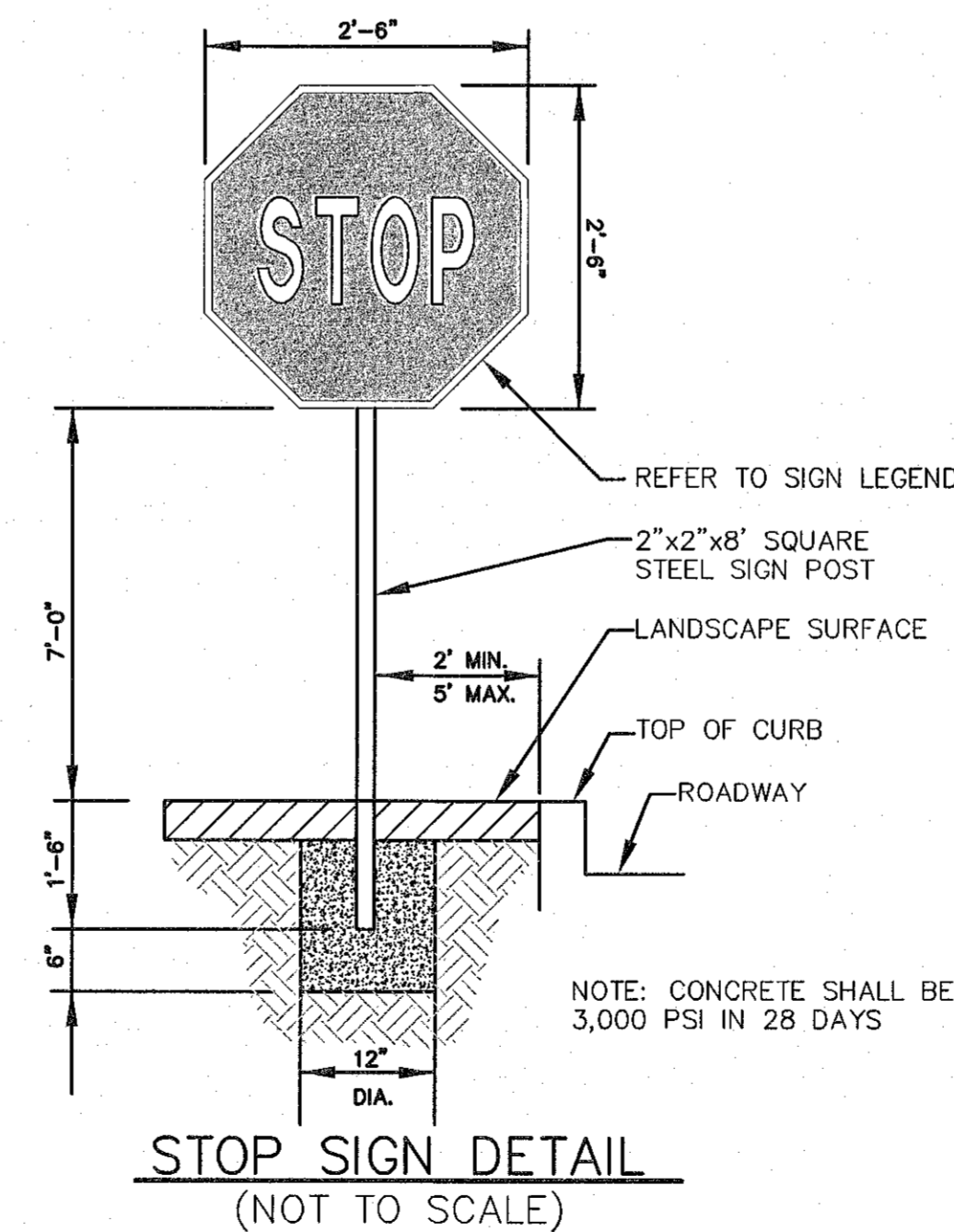
GRANITE MONUMENT DETAIL
(NO SCALE)



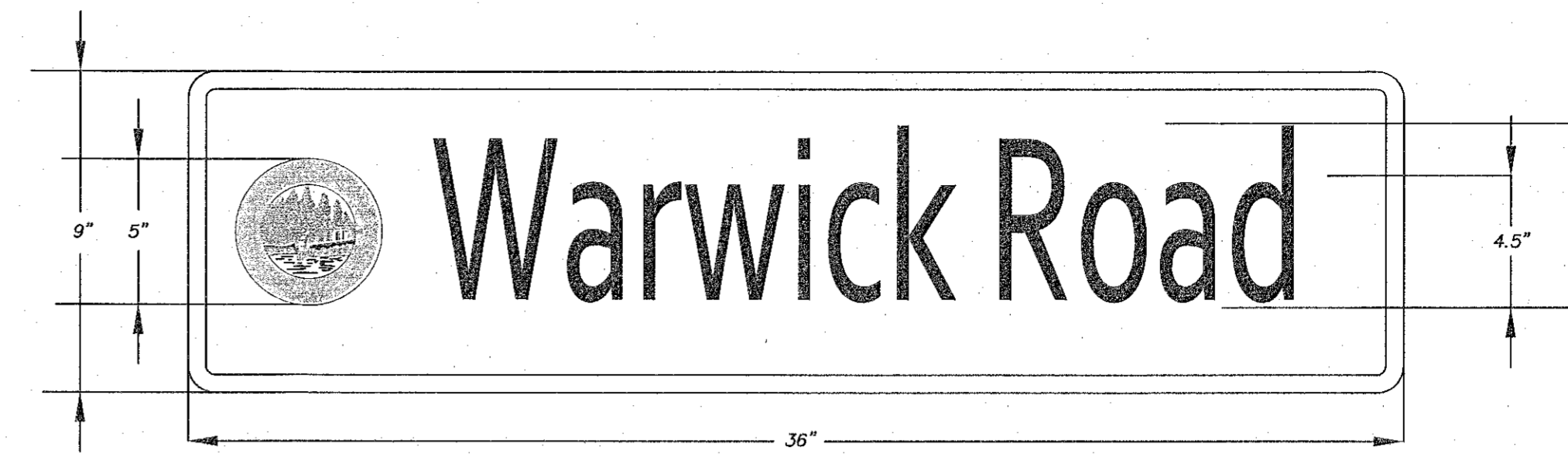
VERTICAL GRANITE CURB DETAIL
NOT TO SCALE



TYPICAL MINOR DRIVEWAY DETAIL
(NO SCALE)

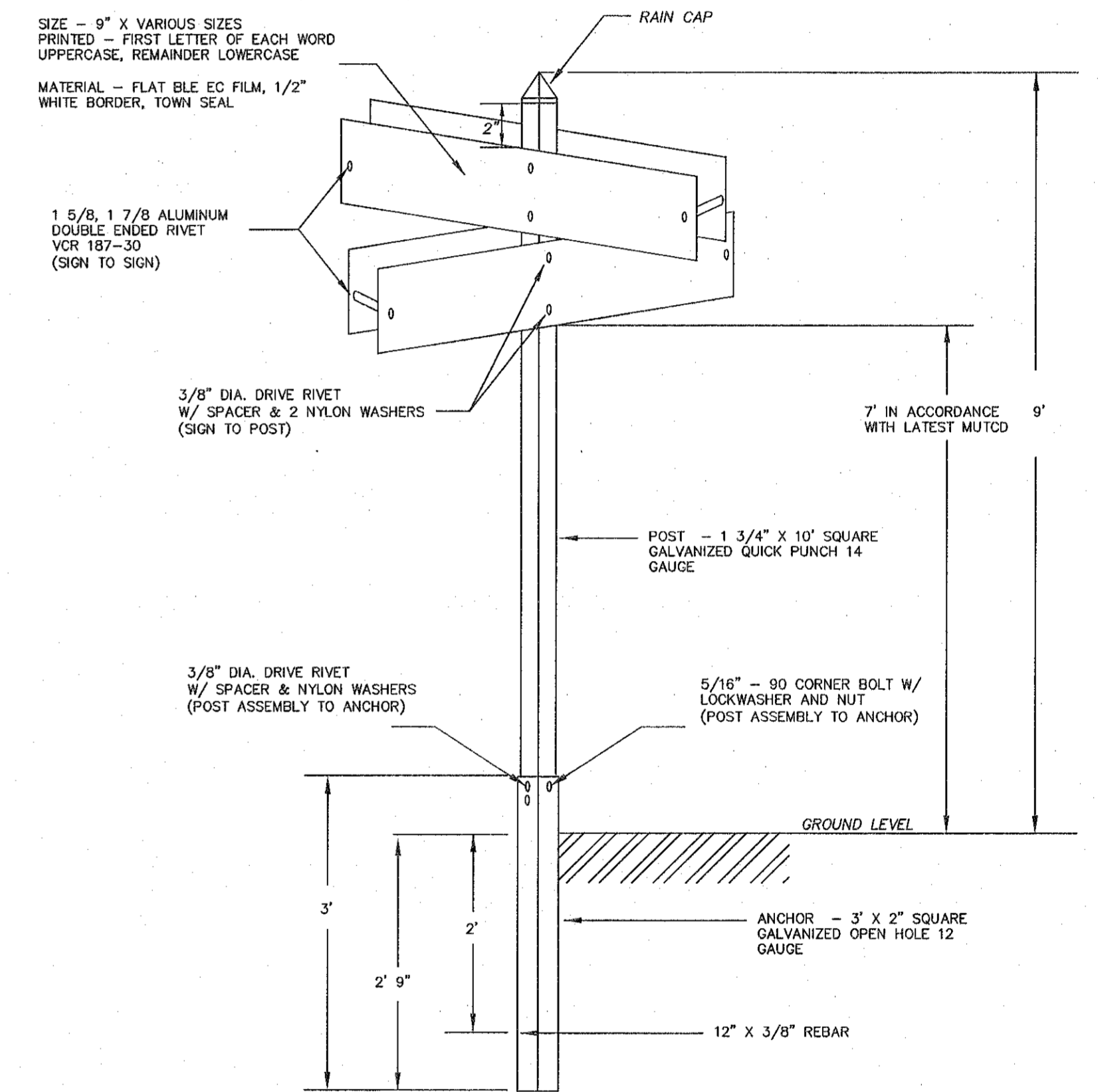


STOP SIGN DETAIL
(NOT TO SCALE)



TYPICAL STREET SIGN NAME PLATE DETAIL
N.T.S.

- SIGN NOTES:
1. MINIMUM SIZE 9"
 2. SIGN MATERIAL SHALL BE 3M VIP DIAG. GRADE WHITE WITH BLUE TRANSLUCENT 3M-ELECTRO-CUT FILM OR APPROVED EQUAL
 3. SIGN MATERIAL MUST MEET THE LATEST FHWA RULES FOR RETROREFLECTIVITY.
 4. FONT = HIGHWAY SERIES B
 5. FIRST LETTER OF EACH WORD IS TO BE UPPERCASE.
 - 6" UPPERCASE, 4 1/2" LOWERCASE
 - AVERY DENNISON PRISMATIC LETTERS



TYPICAL STREET SIGN DETAIL
(NO SCALE)

**DEFINITIVE SUBDIVISION PLAN
" WARWICK ROAD EXTENSION
WALPOLE, MASSACHUSETTS**

PREPARED FOR:
WALL STREET DEVELOPMENT CORP.
P.O. BOX 272
WESTWOOD, MASSACHUSETTS 02090

SHEET: 9 of 12



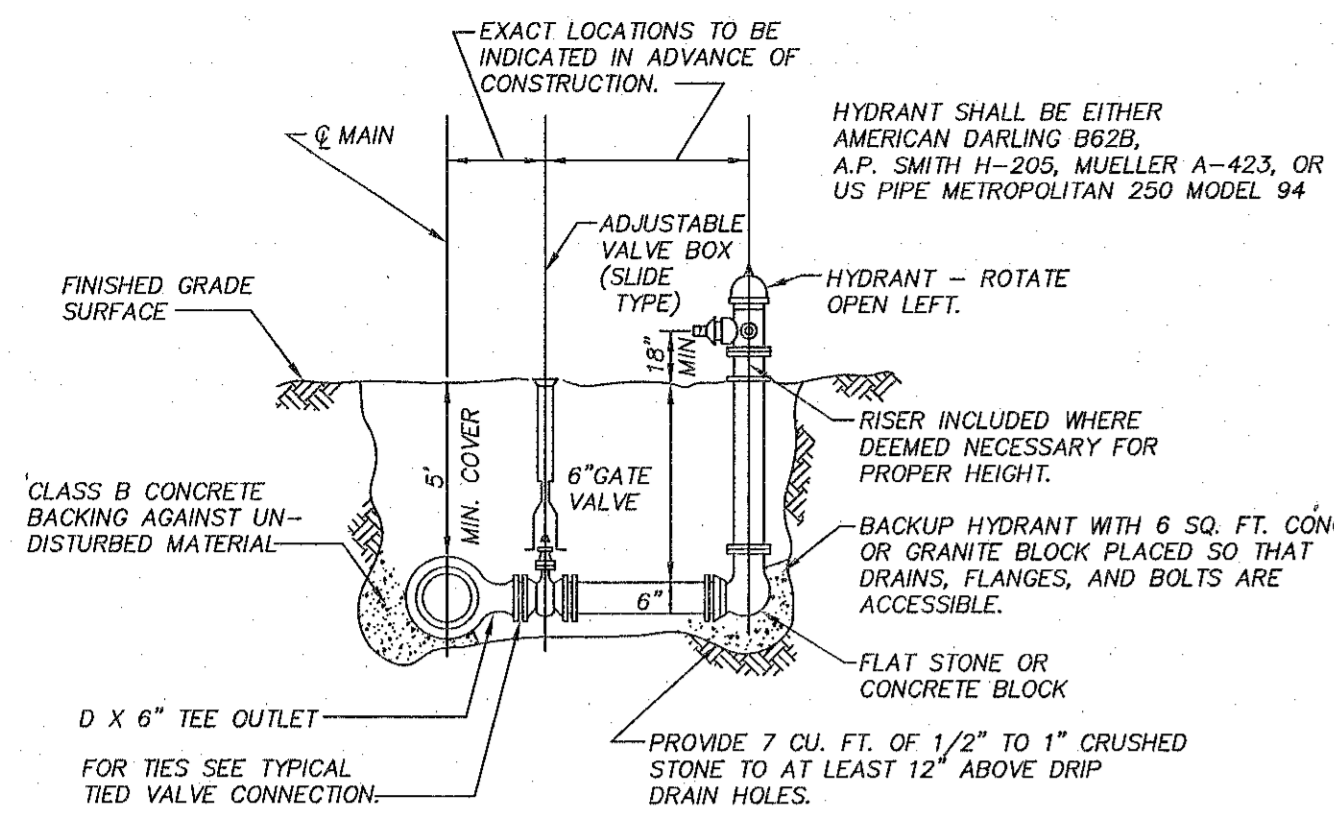
Town of Walpole

- DETAIL SHEET NOTE:
1. ALL DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTICE. CHECK WITH THE TOWN OF WALPOLE PRIOR TO USING THESE DETAILS FOR THE MOST UP TO DATE REVISIONS.
 2. IT IS THE DESIGNERS SOLE RESPONSIBILITY TO DETERMINE THE SUITABILITY OF A PARTICULAR DETAIL.

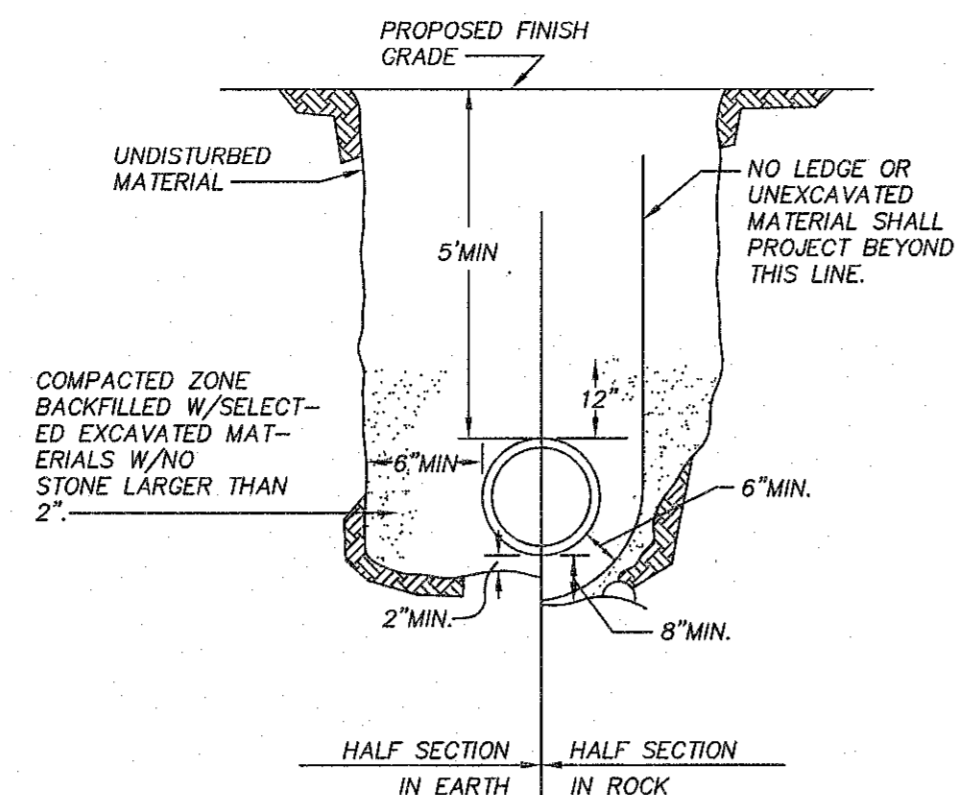
Date:	3-28-19
Scale:	AS SHOWN
Drawn By:	R. ROSA
Checked By:	C. JOHNSON
Appr. By:	M. WALKER

PROJECT PATH	DESCRIPTION	DATE	BY
REV. #			

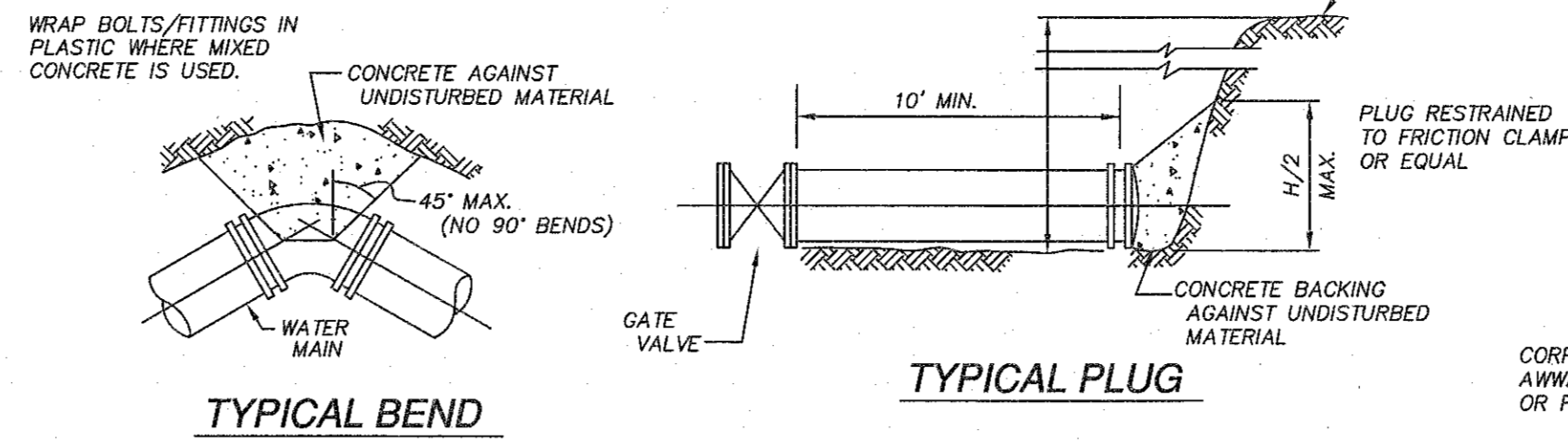
**TOWN OF WALPOLE, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PLAN SHOWING TYPICAL
ROADWAY DETAILS**



TYPICAL HYDRANT ASSEMBLY DETAIL
NOT TO SCALE

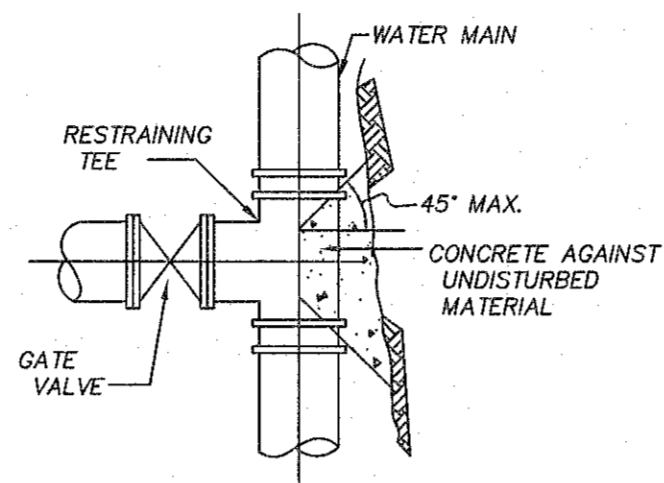


WATER MAIN TRENCH DETAIL
NOT TO SCALE

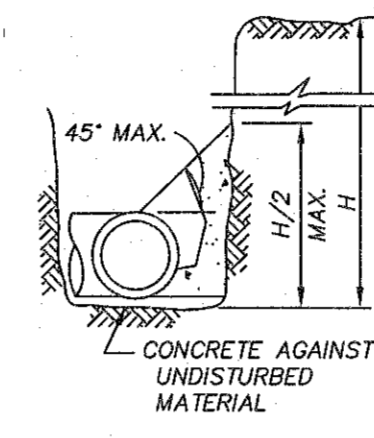


TYPICAL BEND

TYPICAL PLUG



TYPICAL TEE

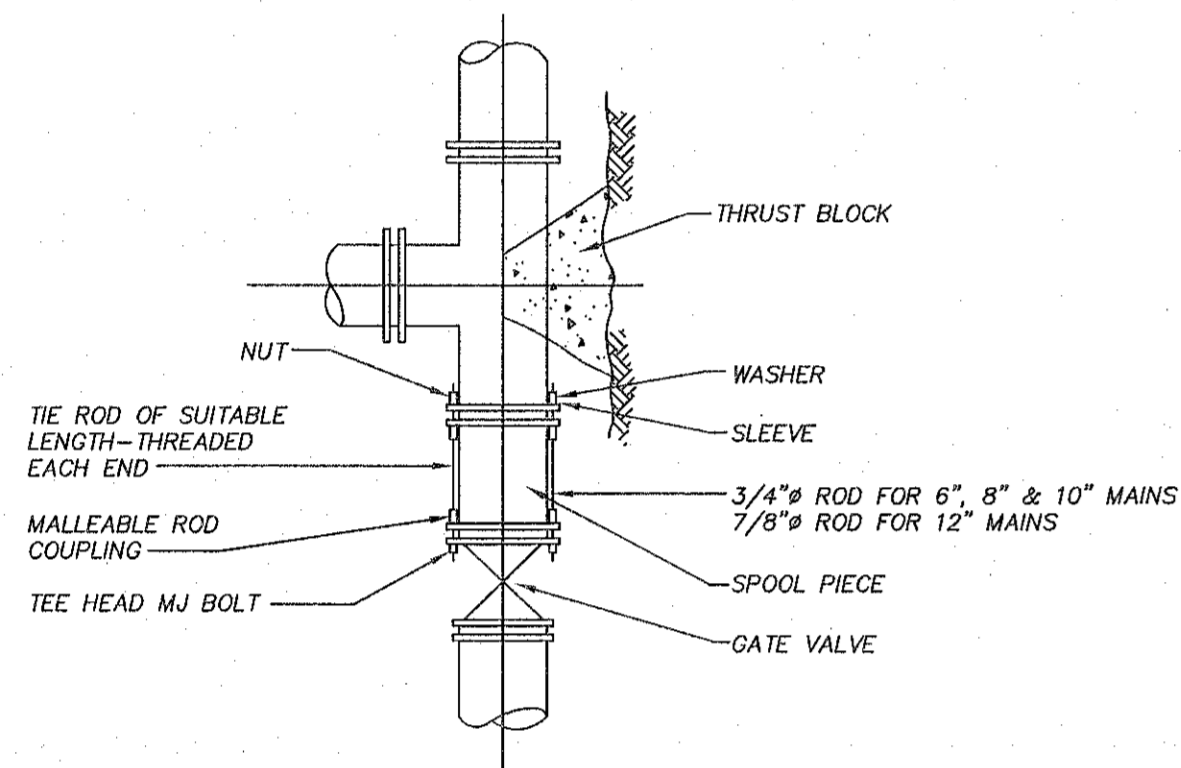


TYPICAL SECTION

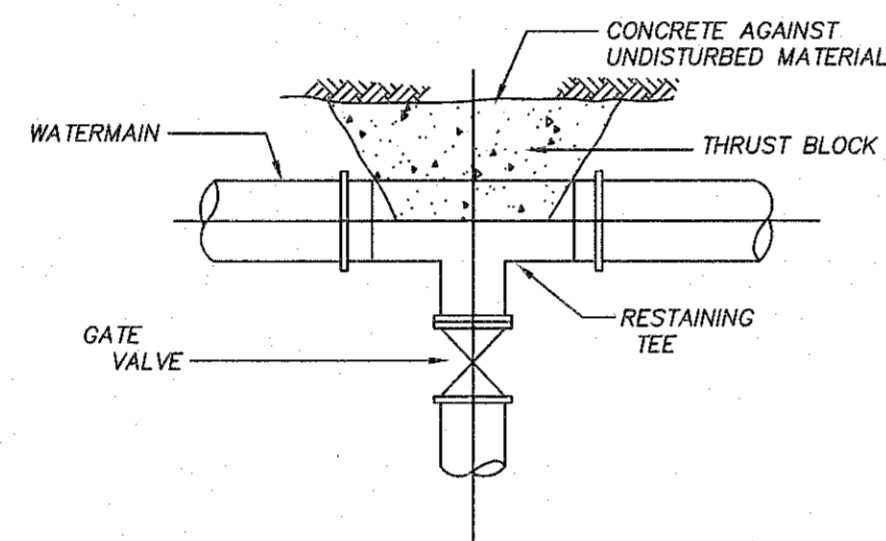
NOTE: CONCRETE FOR THRUST BLOCKS SHALL BE NO LONGER THAN THE RATIO OF 2 1/2 : 5 1/2 AND SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3000 PSI (SO THAT FLANGES AND BOLTS ARE ACCESSIBLE.)

BEARING AREAS OF THRUST BLOCKS (BEARING AREA IN SQUARE FT.)				
PIPE SIZE INCHES	1/4 BEND	1/8 BEND	1/16 BEND OR LESS	PLUG TEES
6 AND 8	8	8		8
10 AND 12	22	13	8	16

TYPICAL THRUST BLOCK DETAIL
NOT TO SCALE

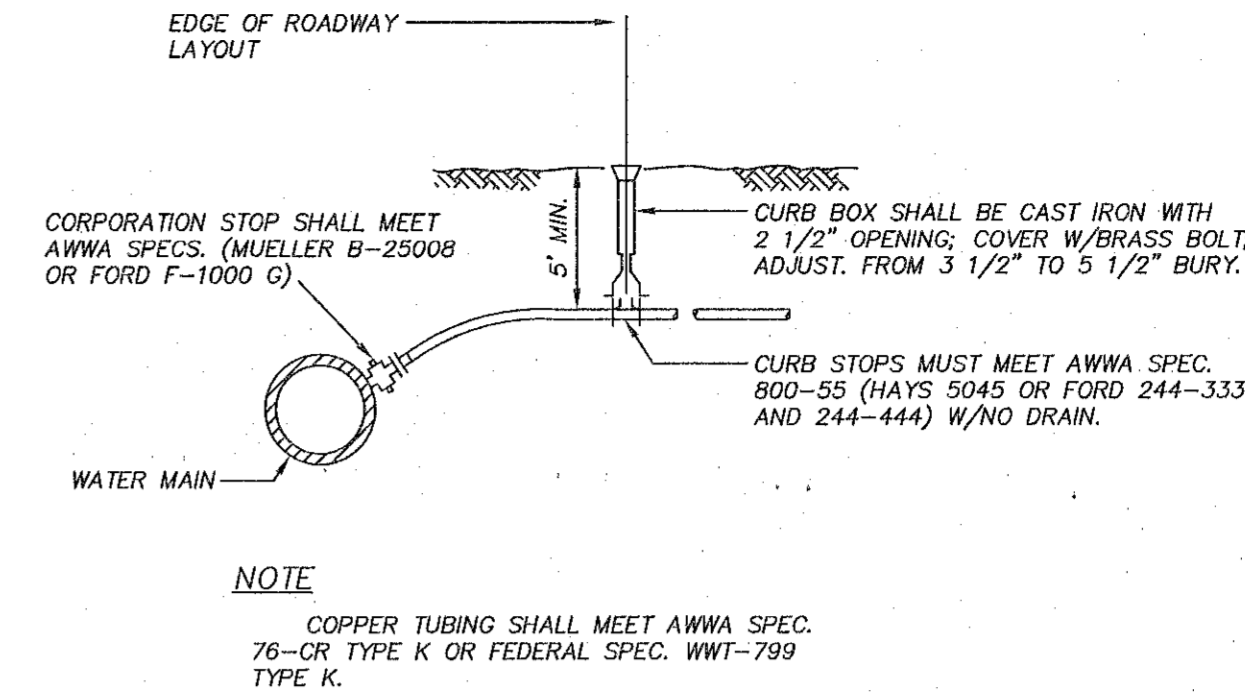


TYPICAL TIED MECHANICAL JOINT VALVE CONNECTION DETAILS
NOT TO SCALE



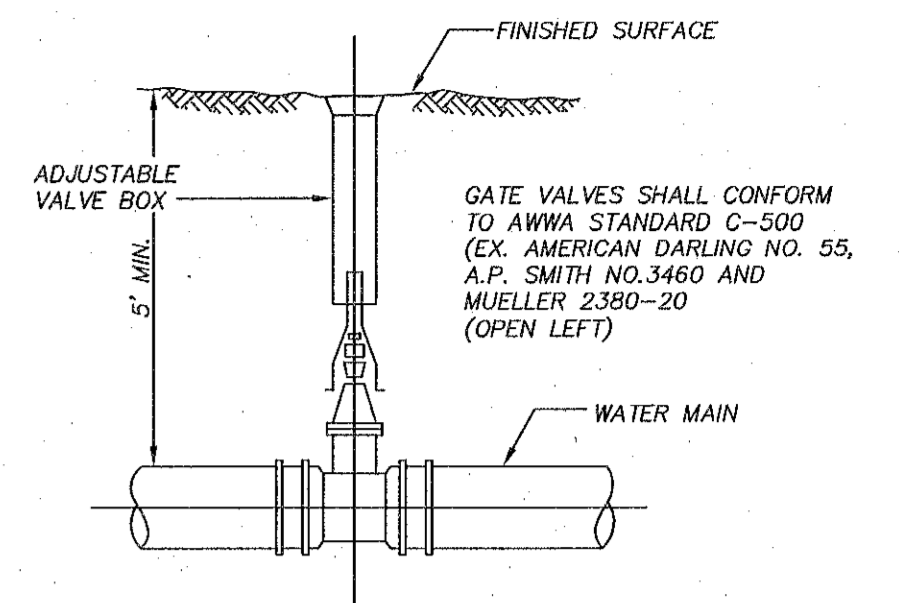
TYPICAL LATERAL GATE VALVE CONNECTION DETAILS
NOT TO SCALE

NOTE: WRAP BOLTS/FITTINGS IN PLASTIC WHERE MIXED CONCRETE IS USED.

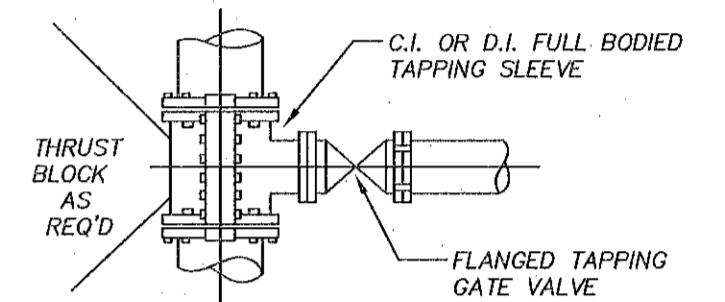


TYPICAL SERVICE CONNECTION
NOT TO SCALE

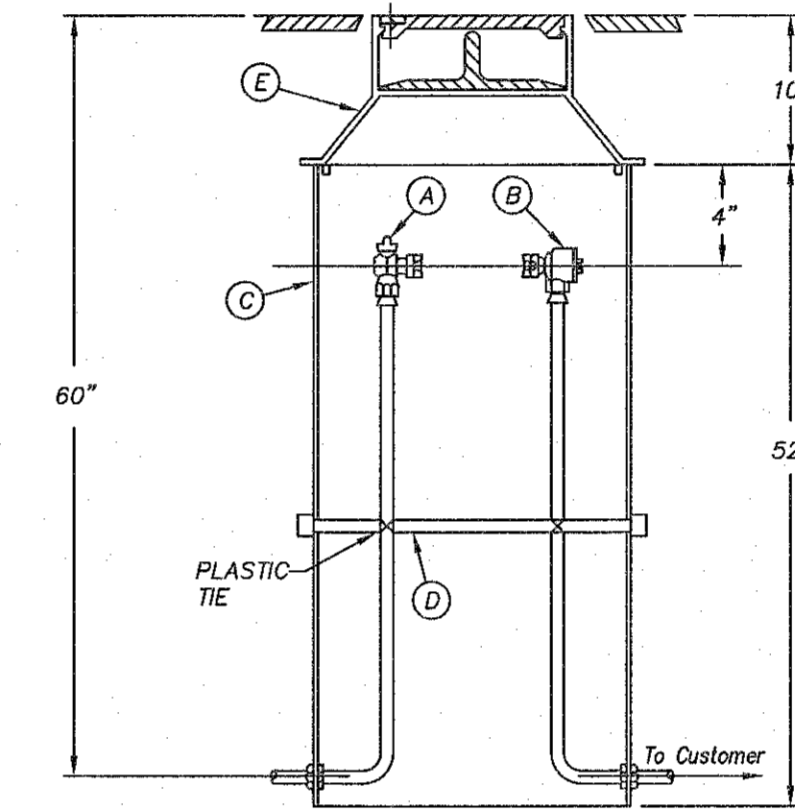
NOTE: COPPER TUBING SHALL MEET AWWA SPEC. 76-OR TYPE K OR FEDERAL SPEC. WWT-799 TYPE K.
1 1/2\"/>



TYPICAL GATE VALVE
NOT TO SCALE



TAPPING SLEEVE AND VALVE DETAILS
NOT TO SCALE



ITEM	DESCRIPTION	CAT No.
A	ANGLE BALL VALVE	BA13-233W
B	DUAL ANGLE CHECK VALVE	HA31-323B
C	20\"/>	
D	1/2\"/>	
E	METER BOX COVER & LID	W-3

* ORDERED SEPARATELY

NOTES:

- ALL SERVICE SHALL ENTER THE PIT AT A 90° ANGLE TO THE STREET.
- TO BE USED FOR DWELLINGS WHICH EXCEED A DISTANCE OF 100' FROM FRONT PROPERTY LINES.
- PLASTIC SERVICE PIPE MAY ONLY BE USED ON PRIVATE SIDE OF METER PIT.

METER PIT SPECIFICATIONS
NOT TO SCALE

NOTES

- WATER SERVICES SHALL BE LAID AT LEAST 10'-0" HORIZONTALLY FROM SEWER LINES AND SERVICES OR FOLLOW "DEP 2001 GUIDELINES AND POLICIES FOR PUBLIC WATER SYSTEMS" REGARDING VERTICAL SEPARATION. SEWER CROSSINGS MUST PROVIDE A 0'-18" VERTICAL SEPARATION AND FOLLOW "DEP 2001 GUIDELINES AND POLICIES FOR PUBLIC WATER SYSTEMS".
- WATER SERVICES GREATER THAN ONE HUNDRED (100) FEET IN LENGTH SHALL BE FIRST CONNECTED TO A WATER METER PIT LOCATED AT THE PROPERTY LINE.
- NO BACKFILL WHAT-SO-EVER SHALL BE PLACED UNTIL PERMITTED BY THE TOWN ENGINEER OR HIS/HER AGENT.
- LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF 0'-6" BELOW AND ON EACH SIDE OF THE PIPE.
- WATER SERVICES SHALL BE BEDDED ON A MINIMUM OF 0'-4" THOROUGHLY COMPACTED GRANULAR BEDDING CONSISTING OF COURSE SAND M.H.D. (M2.01.4). STONE DUST SHALL NOT BE USED AS BEDDING OR BACKFILL.
- THE INITIAL BACKFILL MATERIAL WITHIN 0'-6" OF THE PIPE SHALL CONSIST OF COURSE SAND M.H.D. (M2.01.4).
- DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL NOT BE USED AS BACKFILL WITHIN TWO (2) FEET OF THE TOP OF THE PIPE.
- WATER SERVICES SHALL HAVE A MINIMUM COVER OF 5'-0" FROM THE TOP OF THE PIPE. SERVICES UNDER PAVED SURFACES OR SIDEWALKS SHALL BE FORMED OF SUCCESSIVE LAYERS NOT MORE THAN ONE (1) FOOT IN DEPTH UNIFORMLY DISTRIBUTED AND EACH LAYER THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE MATERIAL. JACKING IS NOT ALLOWED.
- NO PUDDLING OR JETTING IS ALLOWED WITHIN THE PUBLIC LAYOUT WITHOUT WRITTEN PERMISSION OF THE TOWN ENGINEER.

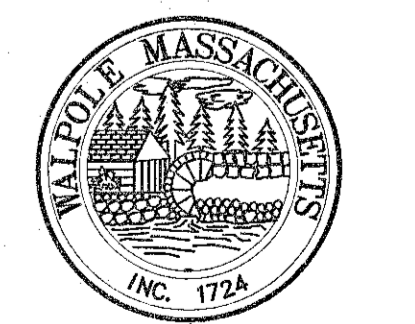
PROJECT PATH			
REV. #	DESCRIPTION	DATE	BY

**TOWN OF WALPOLE, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PLAN SHOWING TYPICAL
WATER MAIN CONSTRUCTION DETAILS**

DETAIL SHEET NOTE:
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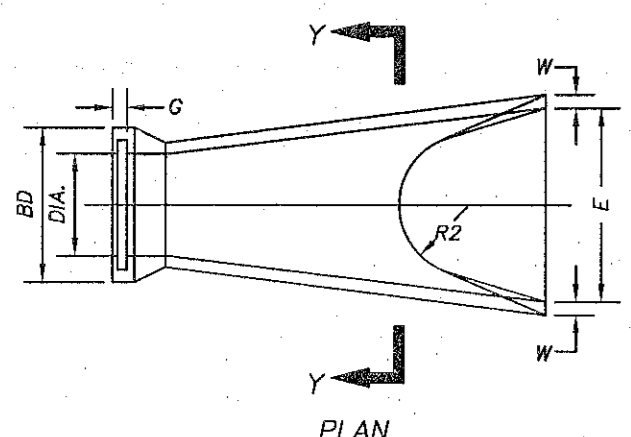
**DEFINITIVE SUBDIVISION PLAN
" WARWICK ROAD EXTENSION
WALPOLE, MASSACHUSETTS**

PREPARED FOR:
WALL STREET DEVELOPMENT CORP.
P.O. BOX 272
WESTWOOD, MASSACHUSETTS 02090



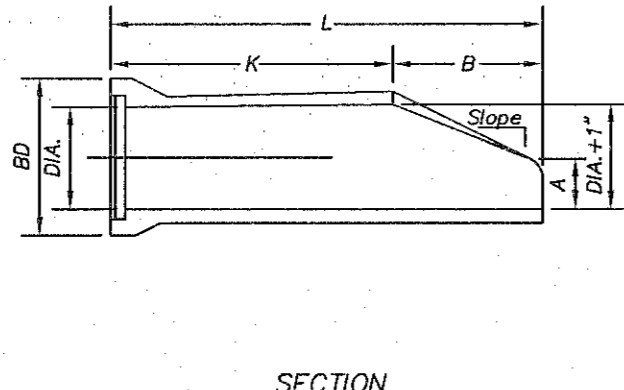
Town of Walpole

Date:	3-28-19
Scale:	AS SHOWN
Drawn By:	R. ROSA
Checked By:	C. JOHNSON
Appr. By:	M. WALKER



PLAN

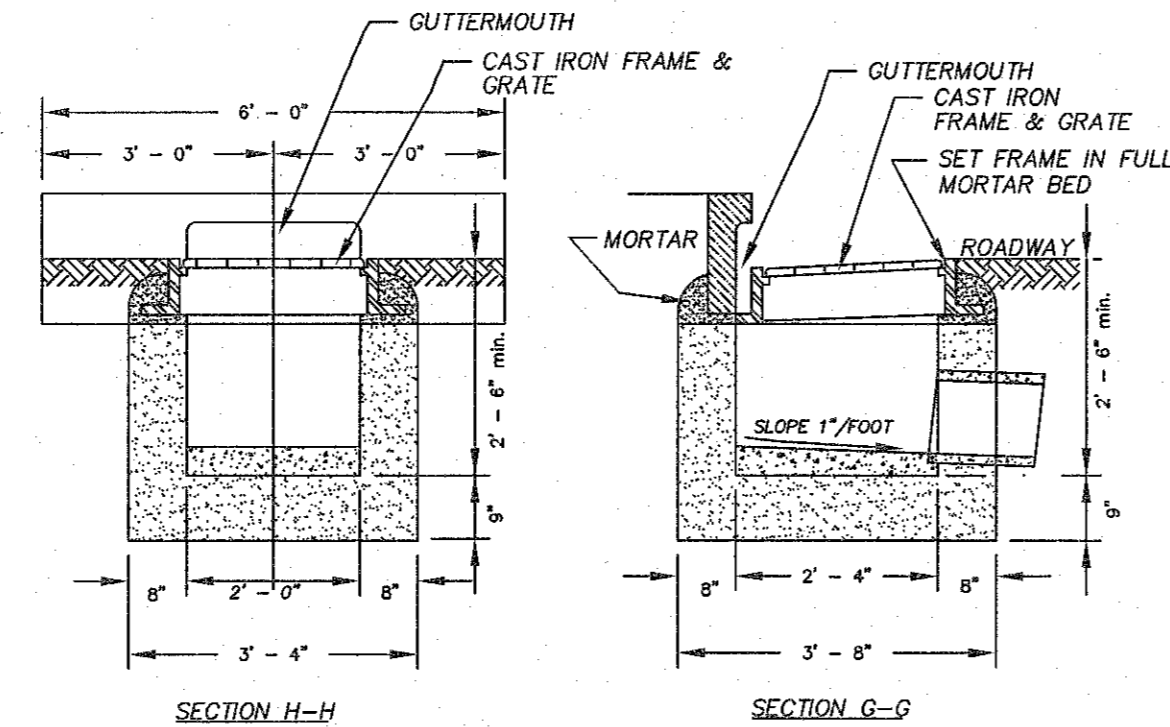
SECTION Y-Y



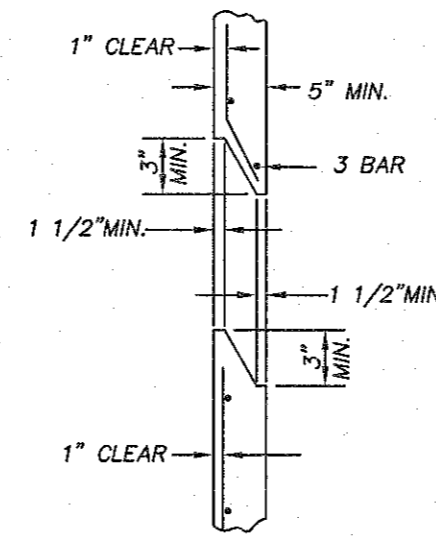
SECTION

DIA.	W	A	B	C	D	E	BD	K	L	P	DIA. T	R1	R2	S	G	Slope
12"	2"	4"	2'-0"	4'-0"	8'-0"	13'-0"	20"	4'-8 1/8"	4'-4 1/8"	19 1/8"	13"	10 1/8"	9"	4"	2 1/2"	3:1
15"	2 1/4"	6"	2'-3"	3'-10"	6'-1 1/2"	2'-6"	24"	4'-11 1/8"	4'-4 1/8"	24 5/8"	16"	12 1/2"	11"	4"	2 1/2"	3:1
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1 1/2"	3'-0"	28"	4'-11 1/8"	4'-4 1/8"	29"	19"	15 1/2"	12"	4"	2 3/4"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1 1/2"	3'-6"	32"	4'-8 1/8"	4'-4 1/8"	31 5/8"	22"	16 1/8"	13"	4"	2 3/4"	3:1
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	36"	4'-8 1/8"	4'-4 1/8"	33 3/8"	25"	18 1/8"	14"	4"	3"	3:1

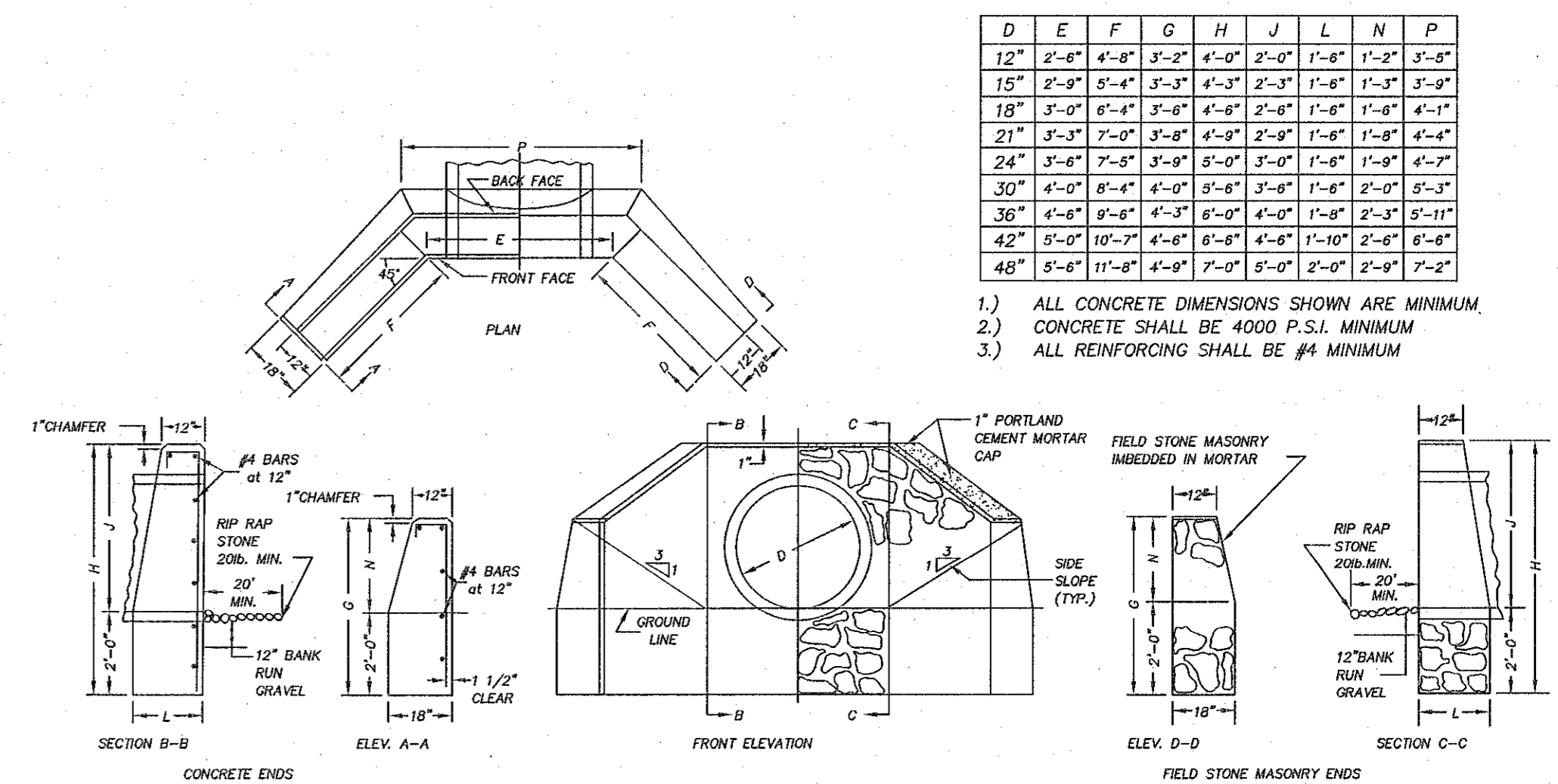
R.C.P. FLARED END SECTION DETAILS
E206.8.0 NOT TO SCALE



GUTTER INLET DETAIL
NOT TO SCALE



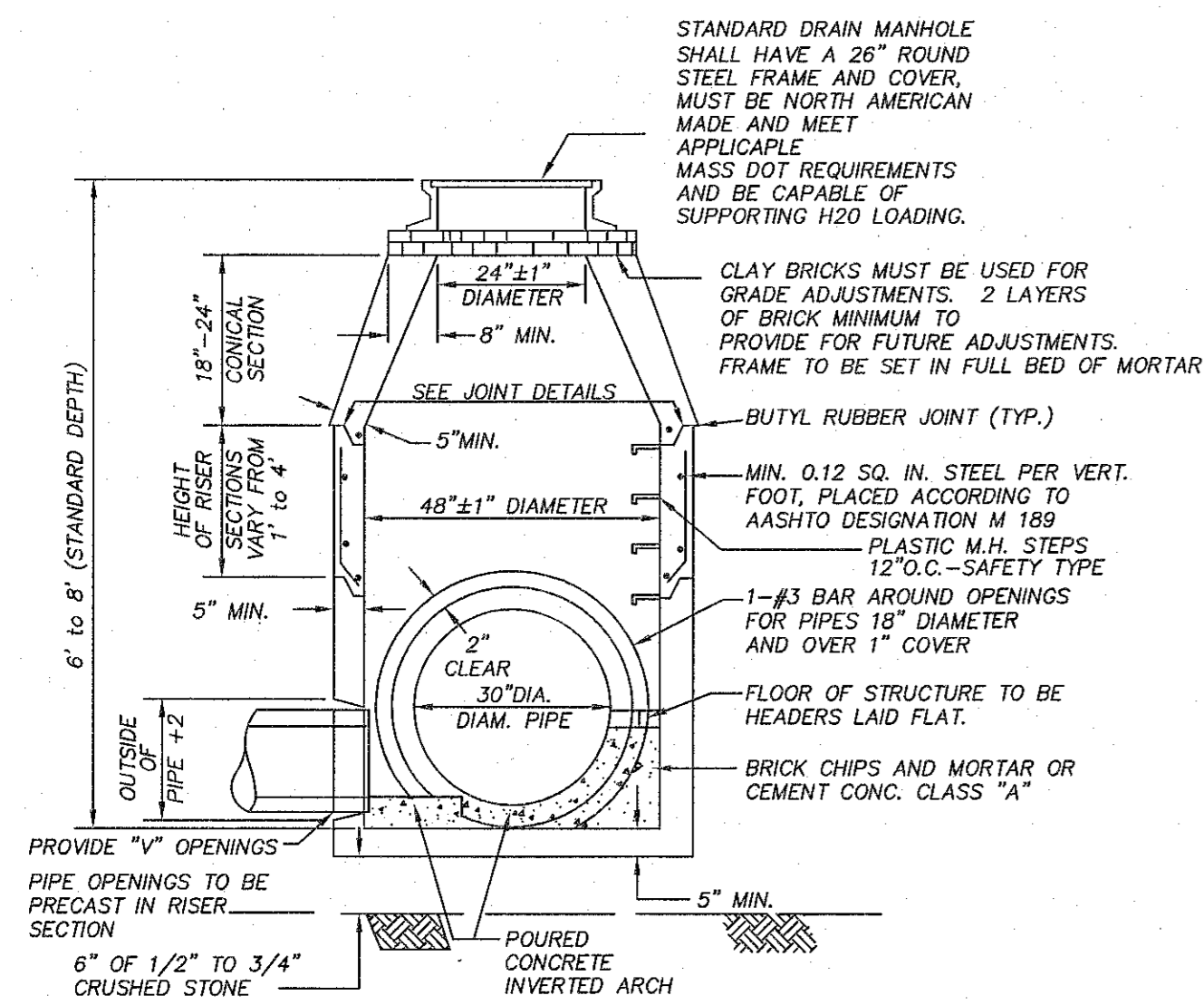
PRECAST STRUCTURE JOINT DETAILS
NOT TO SCALE



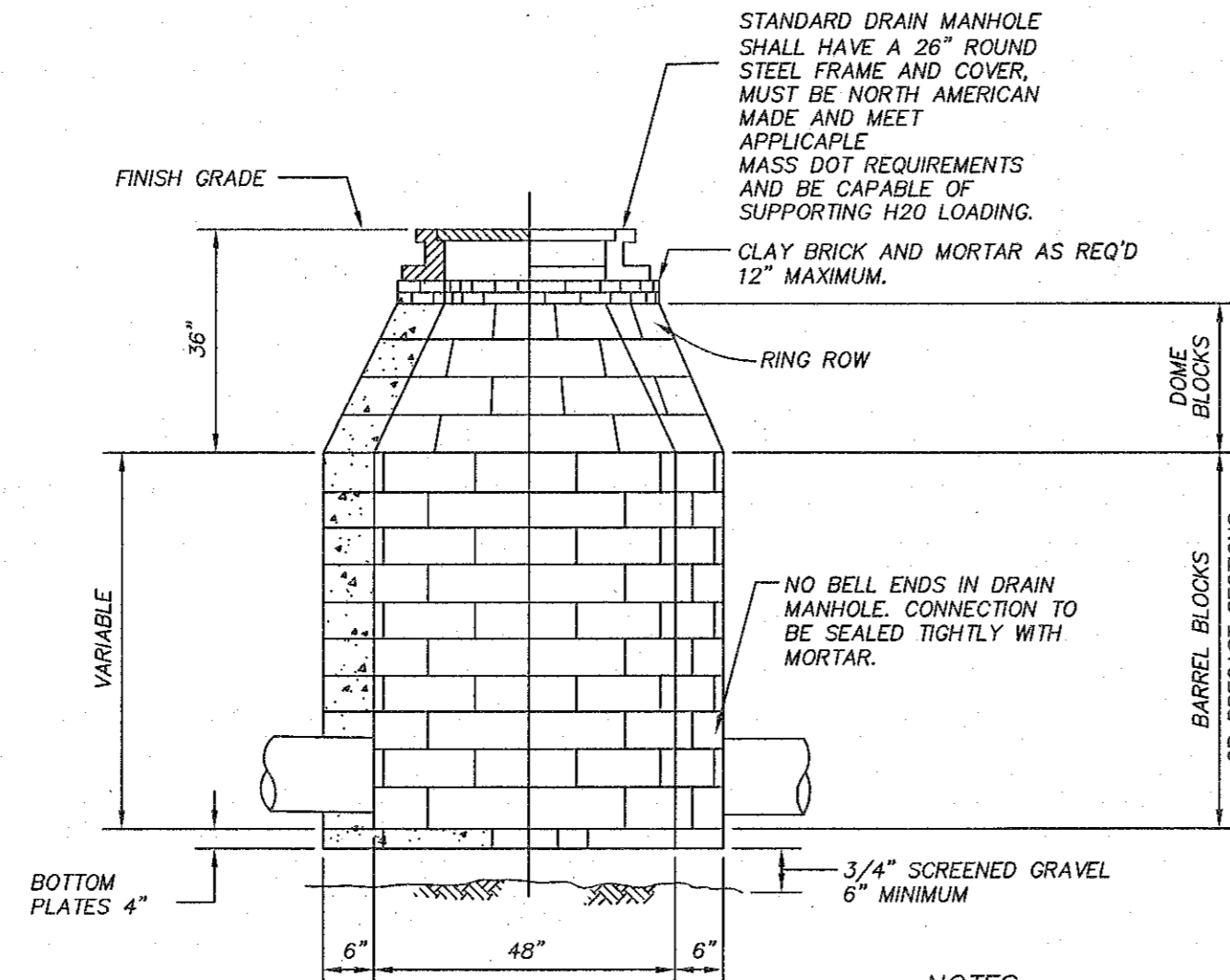
CONCRETE AND FIELD STONE MASONRY HEADWALL/WINGWALL DETAILS
E206.5.0 E206.6.0 NOT TO SCALE

D	E	F	G	H	J	L	N	P
12"	2'-6"	4'-8"	3'-2"	4'-0"	2'-0"	1'-8"	1'-2"	3'-5"
15"	2'-9"	5'-4"	3'-3"	4'-3"	2'-3"	1'-8"	1'-3"	3'-9"
18"	3'-0"	6'-4"	3'-6"	4'-6"	2'-6"	1'-8"	1'-8"	4'-1"
21"	3'-3"	7'-0"	3'-8"	4'-9"	2'-9"	1'-8"	1'-8"	4'-4"
24"	3'-6"	7'-8"	3'-9"	5'-0"	3'-0"	1'-8"	1'-8"	4'-7"
30"	4'-0"	8'-4"	4'-0"	5'-6"	3'-6"	1'-8"	2'-0"	5'-3"
36"	4'-6"	9'-8"	4'-3"	6'-0"	4'-0"	1'-10"	2'-3"	5'-11"
42"	5'-0"	10'-7"	4'-6"	6'-8"	4'-6"	1'-10"	2'-6"	6'-8"
48"	5'-6"	11'-8"	4'-9"	7'-0"	5'-0"	2'-0"	2'-9"	7'-2"

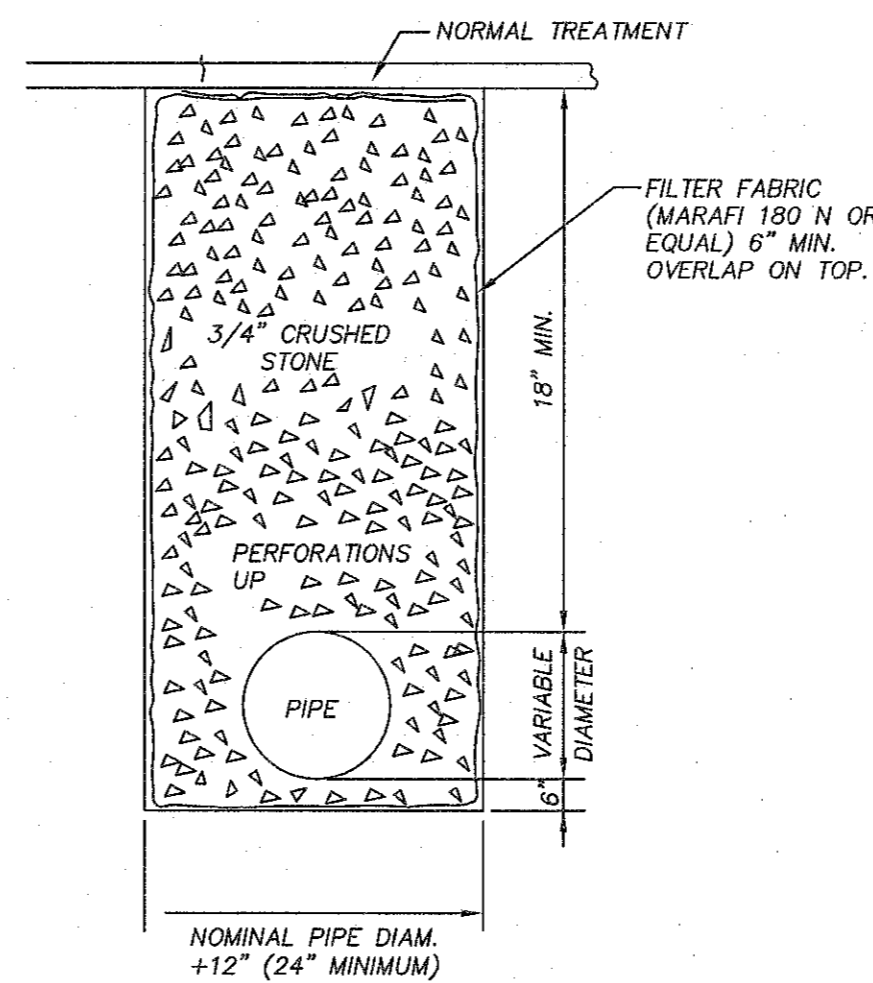
- ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM.
- CONCRETE SHALL BE 4000 P.S.I. MINIMUM.
- ALL REINFORCING SHALL BE #4 MINIMUM.



PRECAST CONCRETE MANHOLE DETAILS
E202.4.0 NOT TO SCALE



BLOCK DRAIN MANHOLE DETAILS
NOT TO SCALE

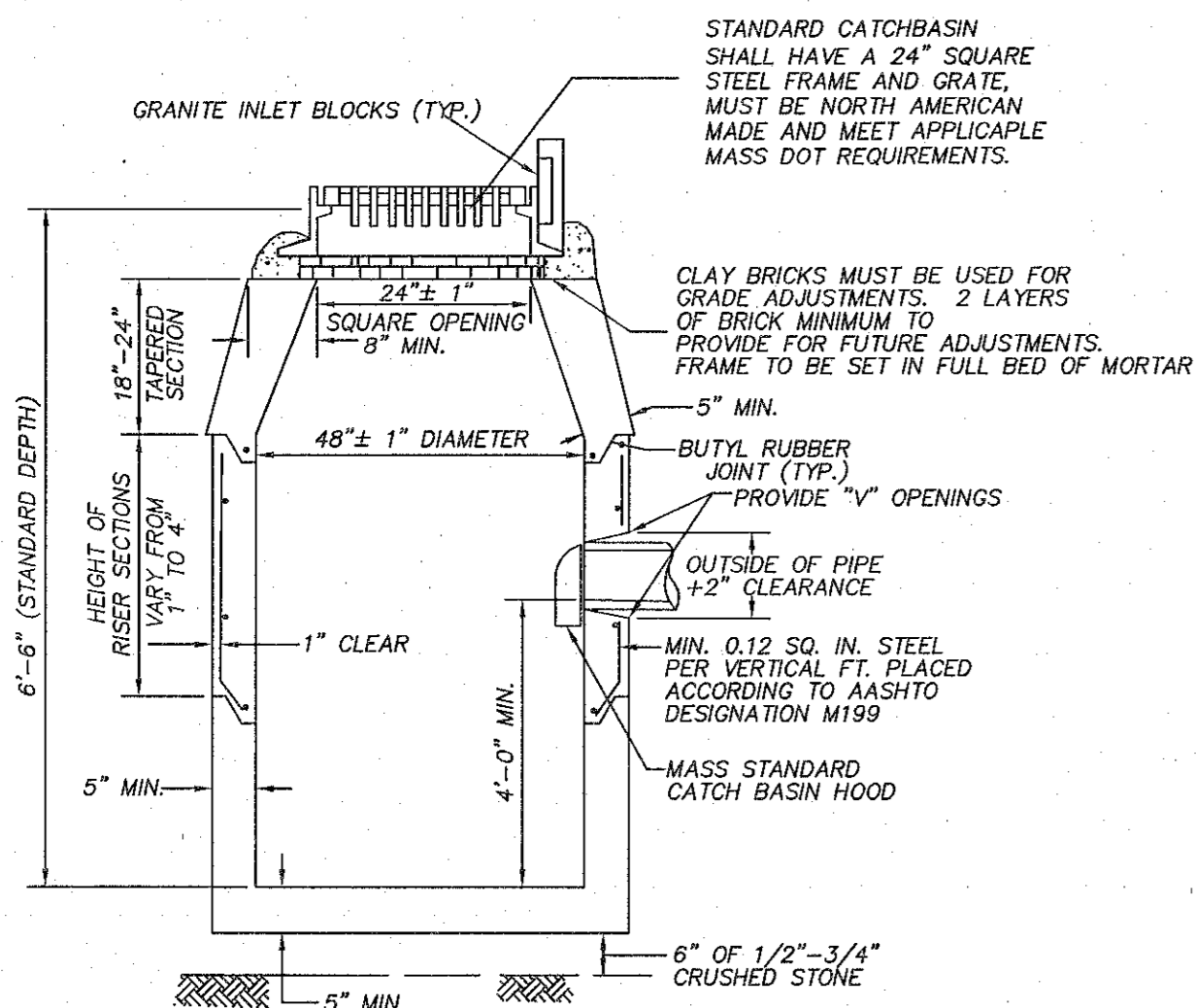


SUBDRAIN DETAIL
NOT TO SCALE

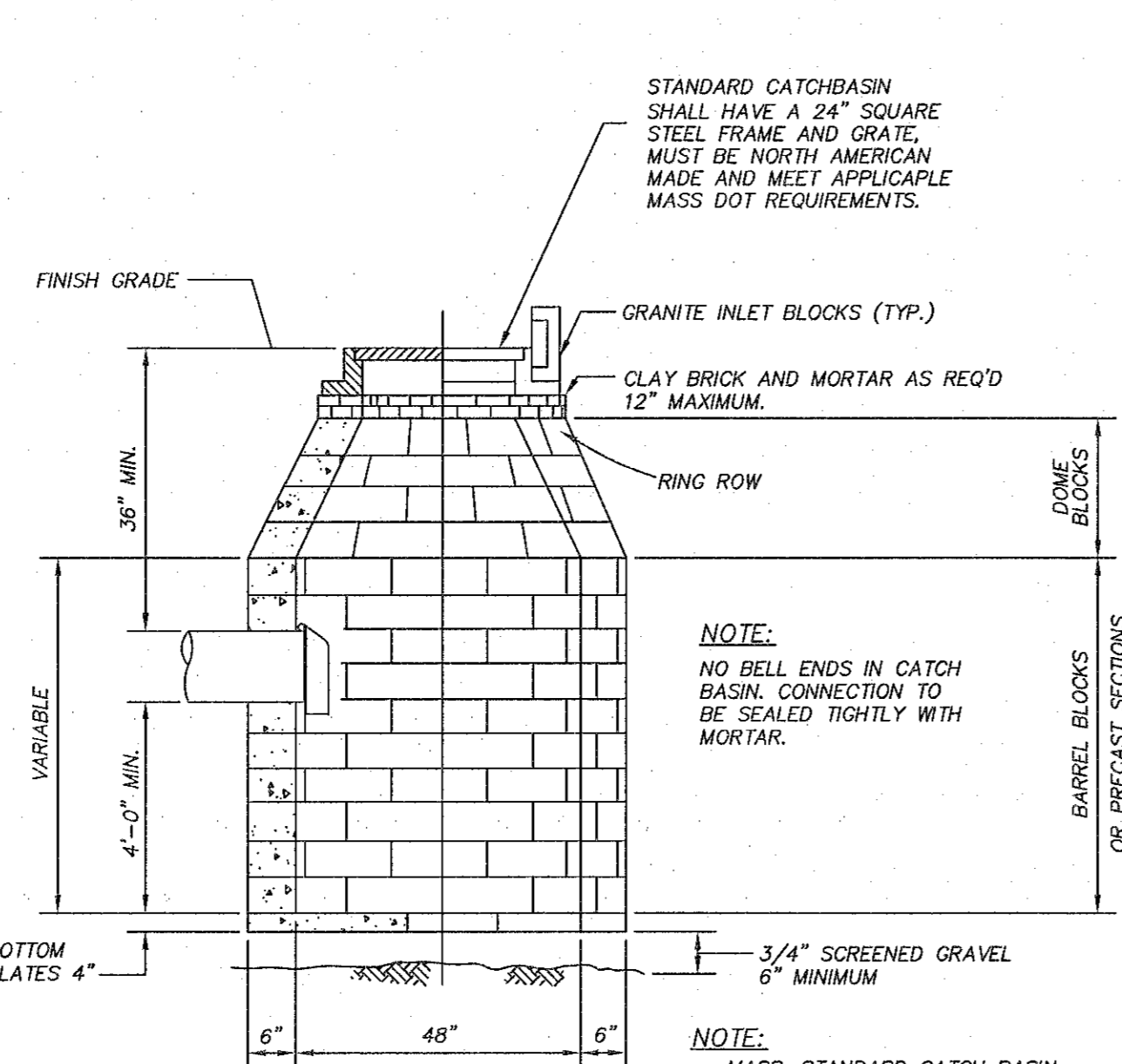
NOTES:

- NO BACKFILL WHATSOEVER SHALL BE PLACED UNTIL PERMITTED BY THE TOWN ENGINEER OR HIS/HER AGENT.
- LEDGE, ROCK, BOULDERS, AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF 0'-6" BELOW AND ON EACH SIDE OF THE PIPE.
- BACKFILL SHALL BE FORMED OF SUCCESSIVE LAYERS NOT MORE THAN ONE (1) FOOT IN DEPTH, UNIFORMLY DISTRIBUTED AND EACH LAYER THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE MATERIAL.
- NO PUDING OR JETTING IS ALLOWED WITHOUT WRITTEN PERMISSION OF THE TOWN ENGINEER.
- M.H.D. "PROCESSED GRAVEL" (M1.03.1)
- SUITABLE BACKFILL MEETING M.H.D. "SPECIAL BORROW" (M1.02.0) EXCEPT NO STONE SHALL BE GREATER THAN 0'-6". REPLACE UNSUITABLE MATERIAL WITH M.H.D. "GRAVEL BORROW" TYPE-C" (M1.03.0)
- FINAL BACKFILL MECHANICALLY COMPACTED IN 1'-0" LIFTS TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE MATERIAL.
- NO STONE LARGER THAN 0'-3" WITHIN 2'-0" OF THE PIPE
- UTILITY MARKING TAPE
- INITIAL BACKFILL, SELECTED MATERIAL HAND TAMPED MEETING M.H.D. "SPECIAL BORROW" (M1.02.0) OR REPLACE WITH M.H.D. "GRAVEL BORROW" TYPE-C" (M1.03.0)
- MIN. 0'-4" THOROUGHLY COMPACTED GRANULAR BEDDING; M.H.D. "SAND BORROW" (M1.04.0), M.H.D. "3/4" CRUSHED STONE" (M2.01.4), OR M.H.D. "DENSE-GRADED CRUSHED STONE" (M2.01.7)
- UNSATURABLE OR SOFT AND YIELDING MATERIAL BELOW THE PIPE SUBGRADE SHALL BE REPLACED WITH M.H.D. "DENSE-GRADED CRUSHED STONE" (M2.01.7) AND THOROUGHLY COMPACTED

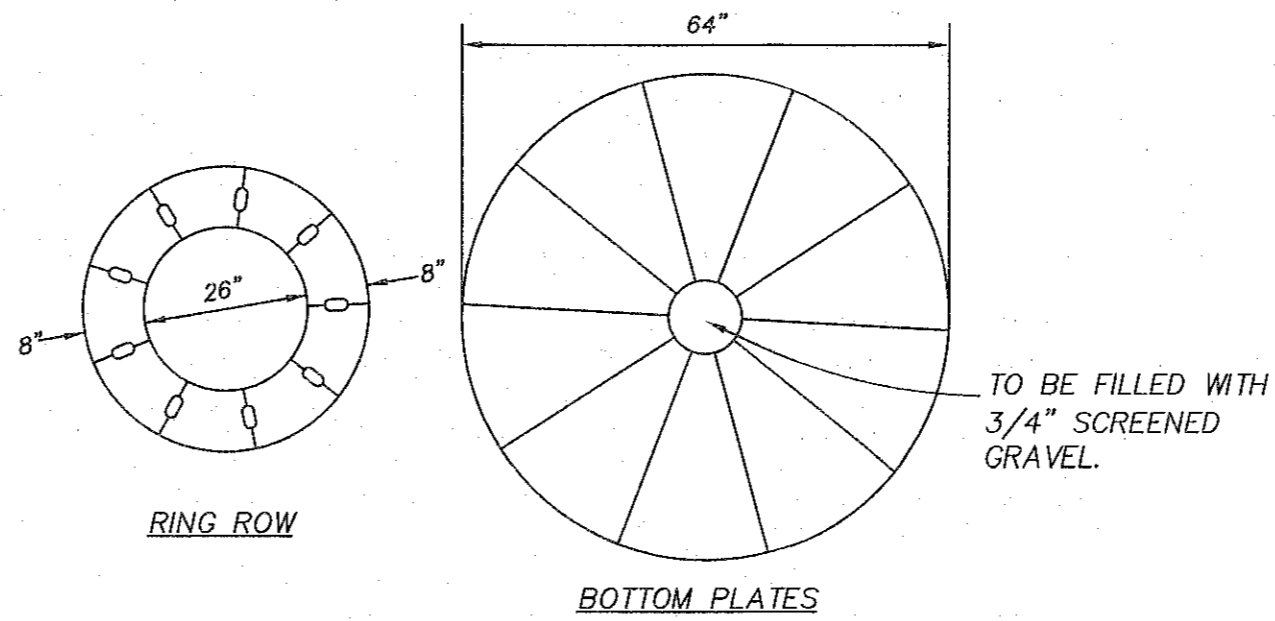
TYPICAL DRAIN TRENCH DETAIL
NOT TO SCALE



PRECAST CONCRETE CATCH BASIN DETAILS
NOT TO SCALE



BLOCK CATCH BASIN DETAILS
NOT TO SCALE



BLOCK CATCH BASIN & MANHOLE BOTTOM DETAILS
NOT TO SCALE

REV. #	DESCRIPTION	DATE	BY

TOWN OF WALPOLE, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PLAN SHOWING TYPICAL
DRAINAGE CONSTRUCTION DETAILS

DETAIL SHEET NOTE:
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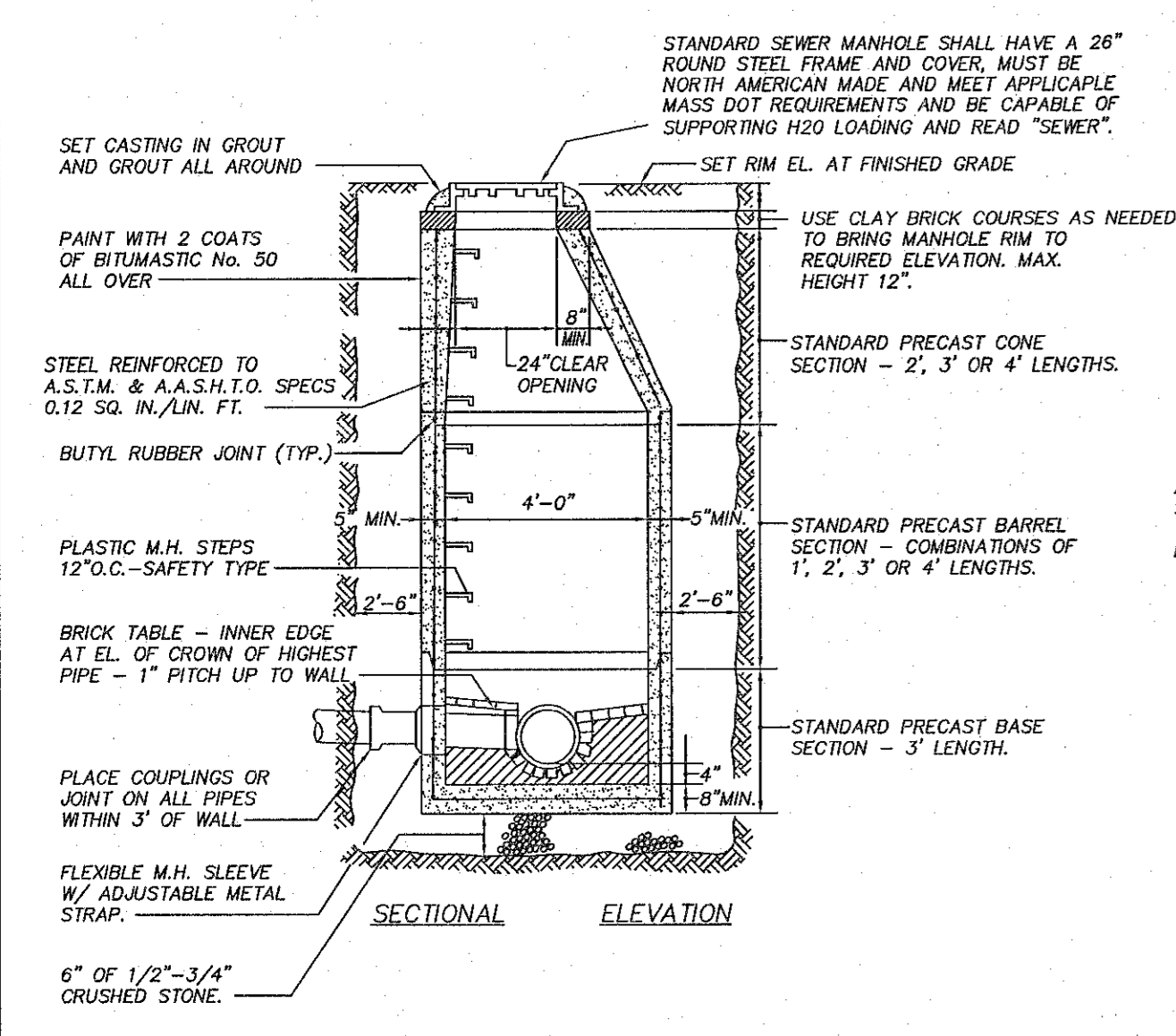
DEFINITIVE SUBDIVISION PLAN
"WARWICK ROAD EXTENSION
WALPOLE, MASSACHUSETTS

PREPARED FOR:
WALL STREET DEVELOPMENT CORP.
P.O. BOX 272
WESTWOOD, MASSACHUSETTS 02090

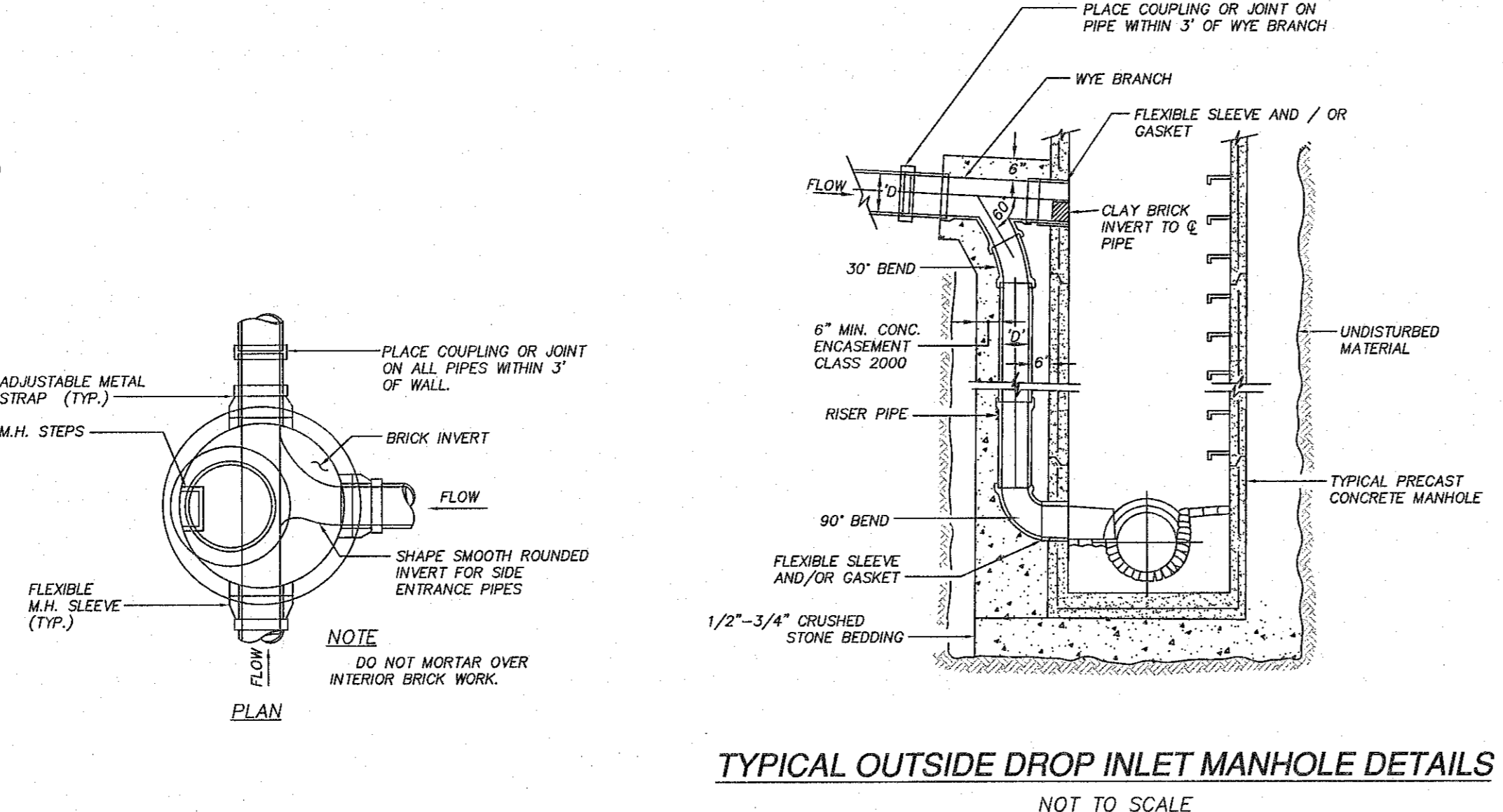


Town of Walpole

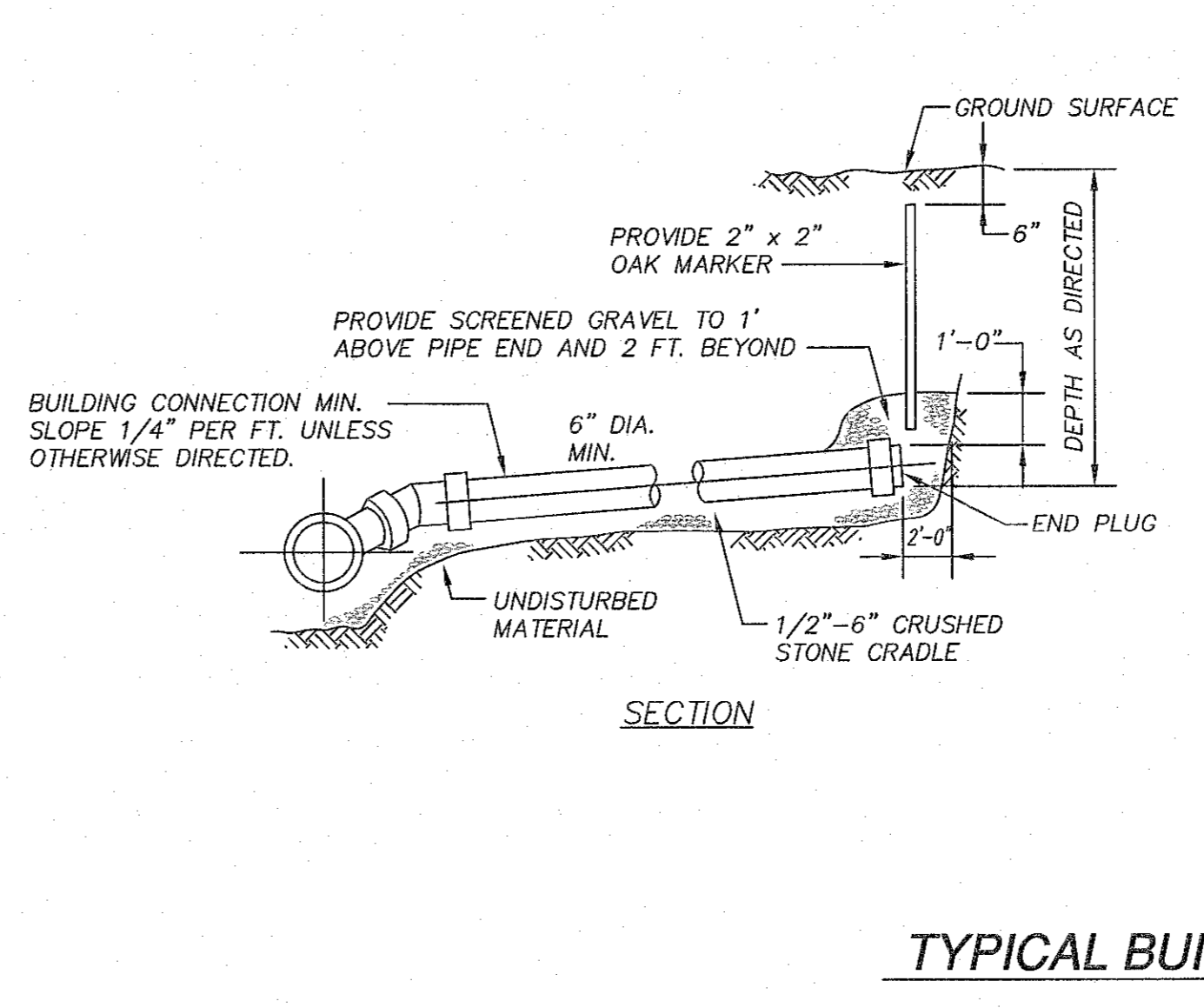
Date:	3-28-19
Scale:	AS SHOWN
Drawn By:	R. ROSA
Checked By:	C. JOHNSON
Appr. By:	M. WALKER



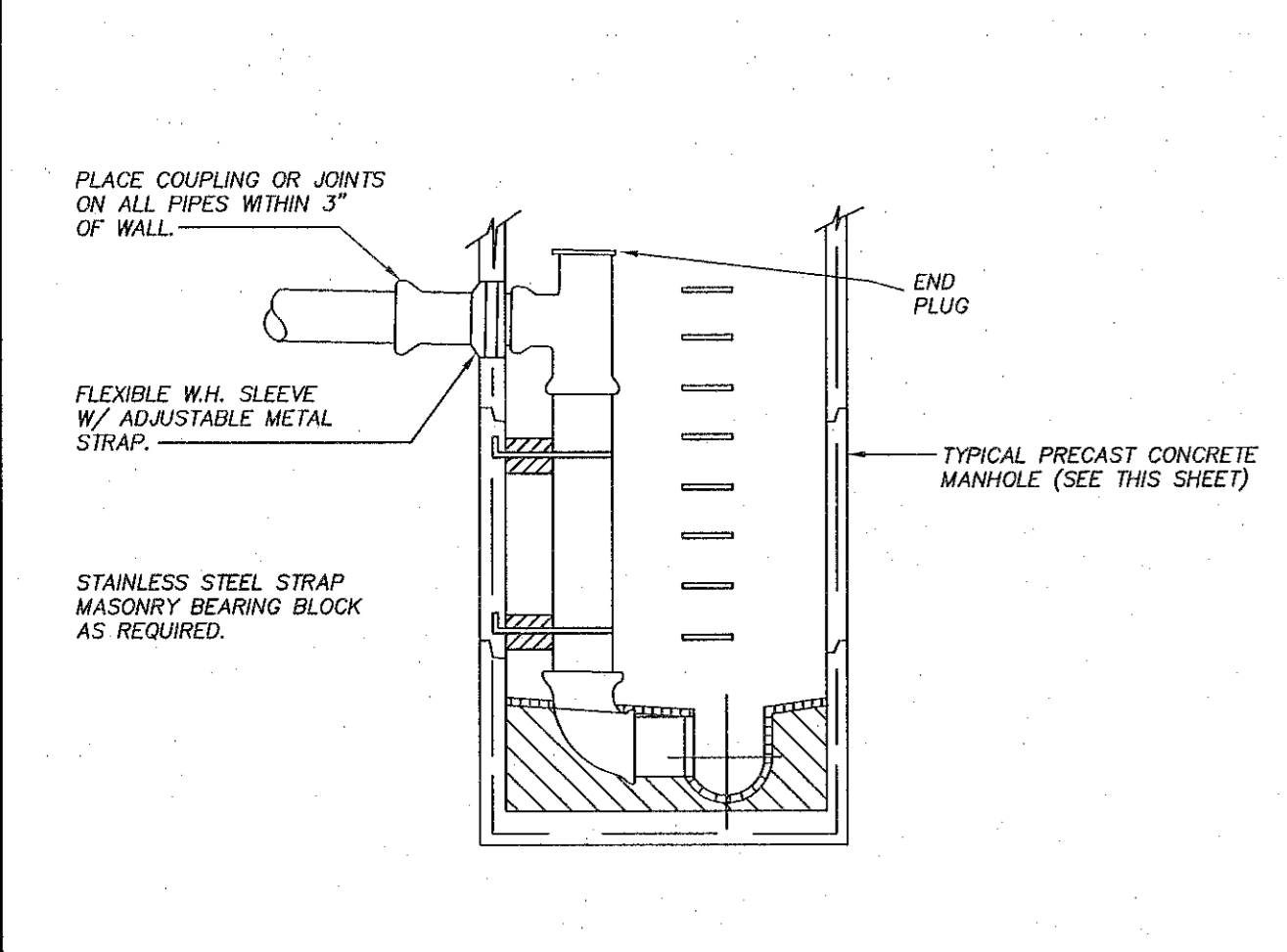
TYPICAL PRECAST CONCRETE SEWER MANHOLE DETAILS
NOT TO SCALE



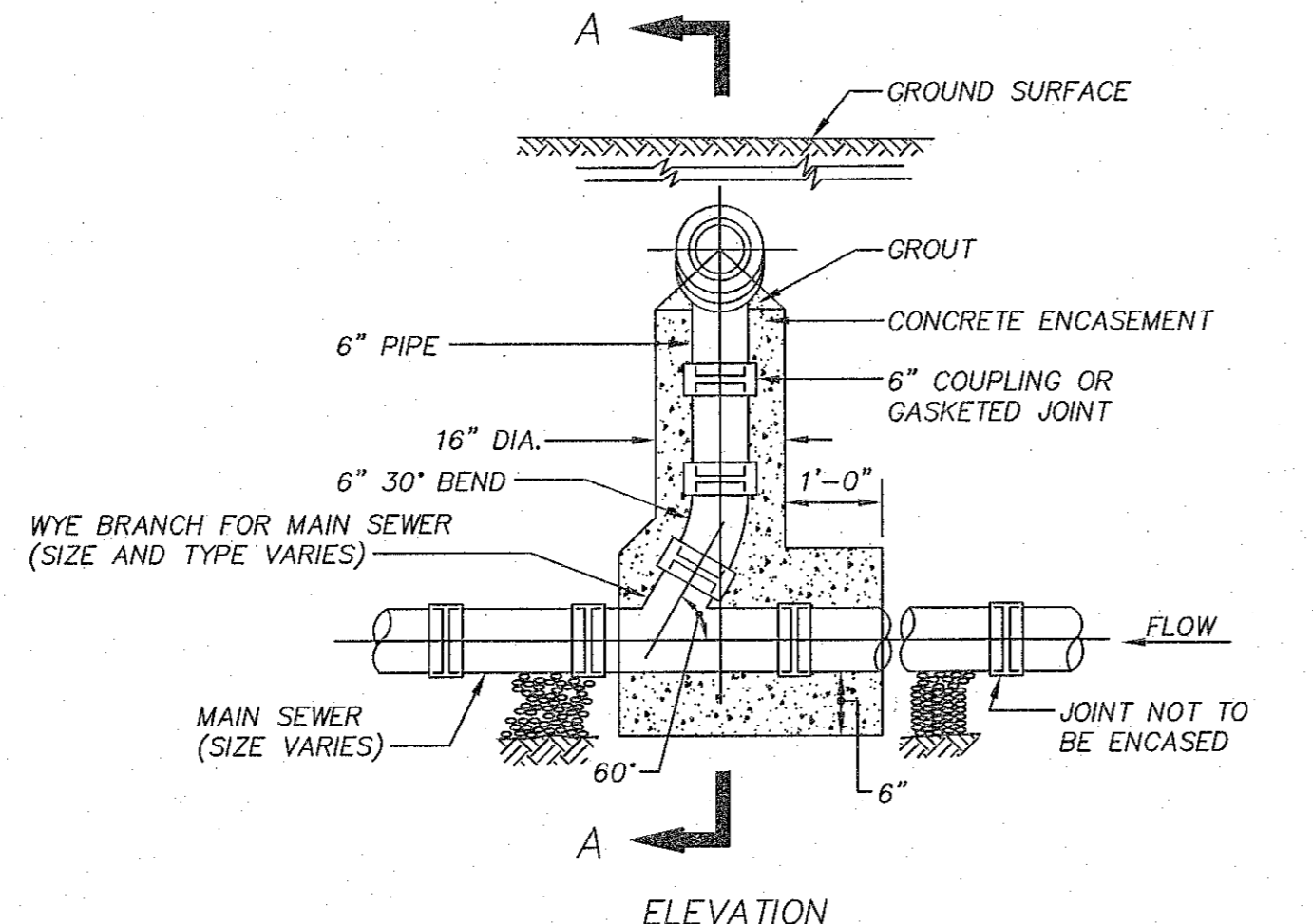
TYPICAL OUTSIDE DROP INLET MANHOLE DETAILS
NOT TO SCALE



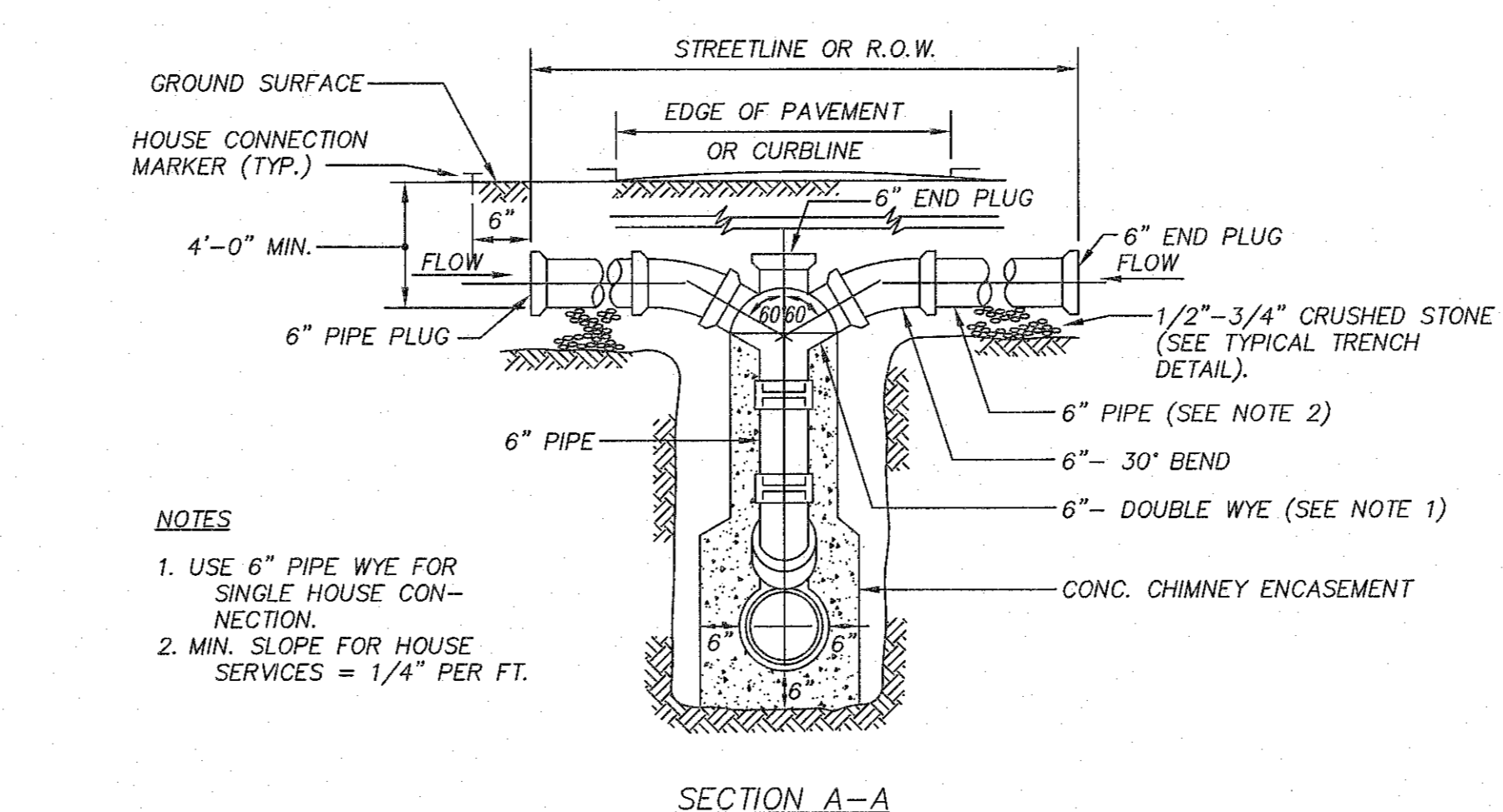
TYPICAL BUILDING CONNECTION
NOT TO SCALE



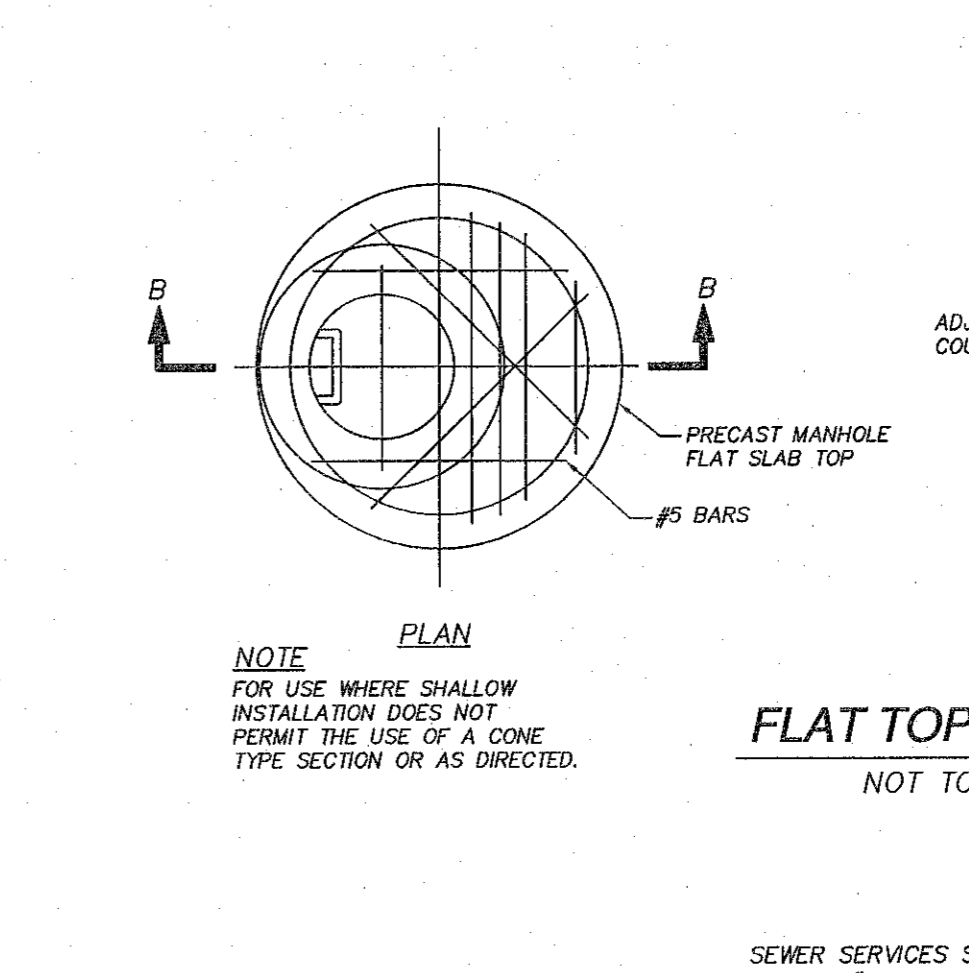
TYPICAL INSIDE DROP INLET MANHOLE DETAILS
NOT TO SCALE



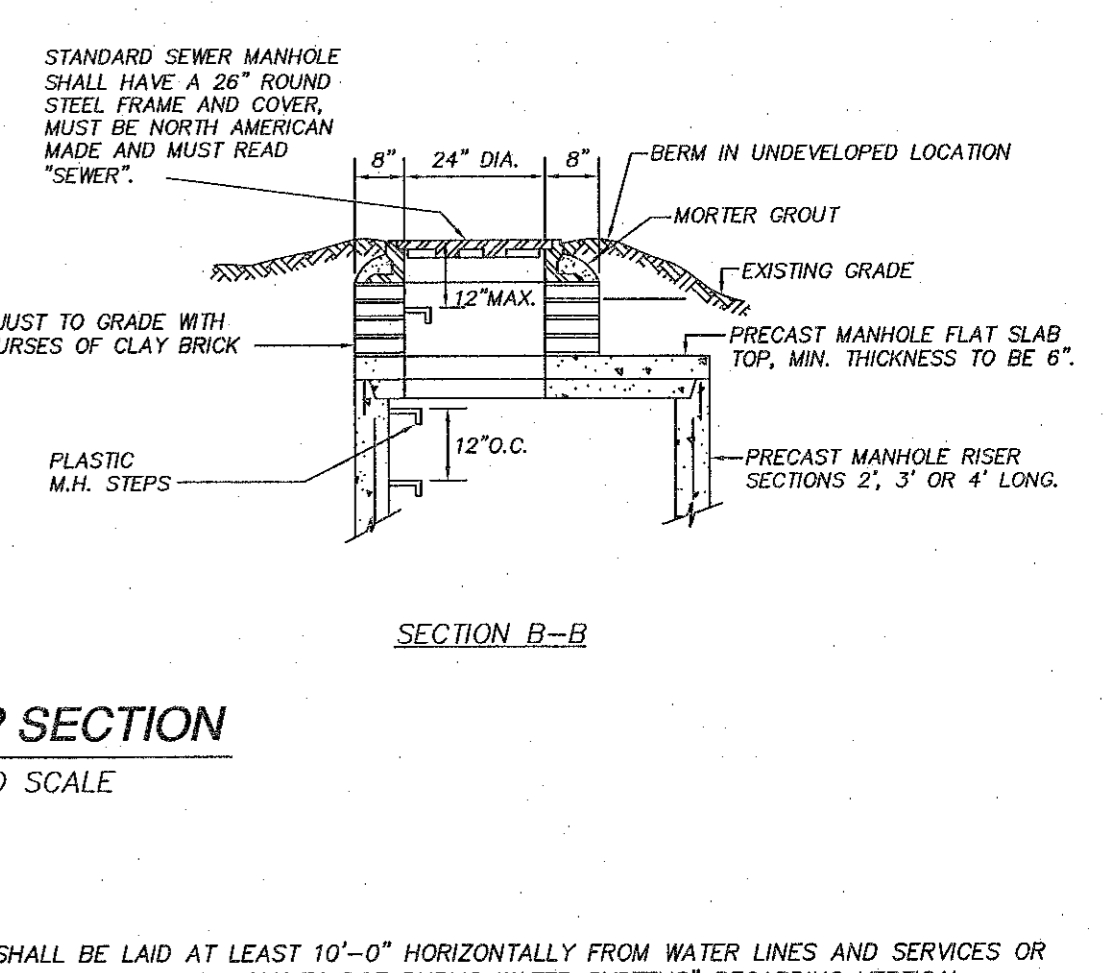
TYPICAL HOUSE SERVICE CONNECTION & CHIMNEY DETAIL
(FOR MAIN SEWER OVER 8'-0" DEEP)
NOT TO SCALE



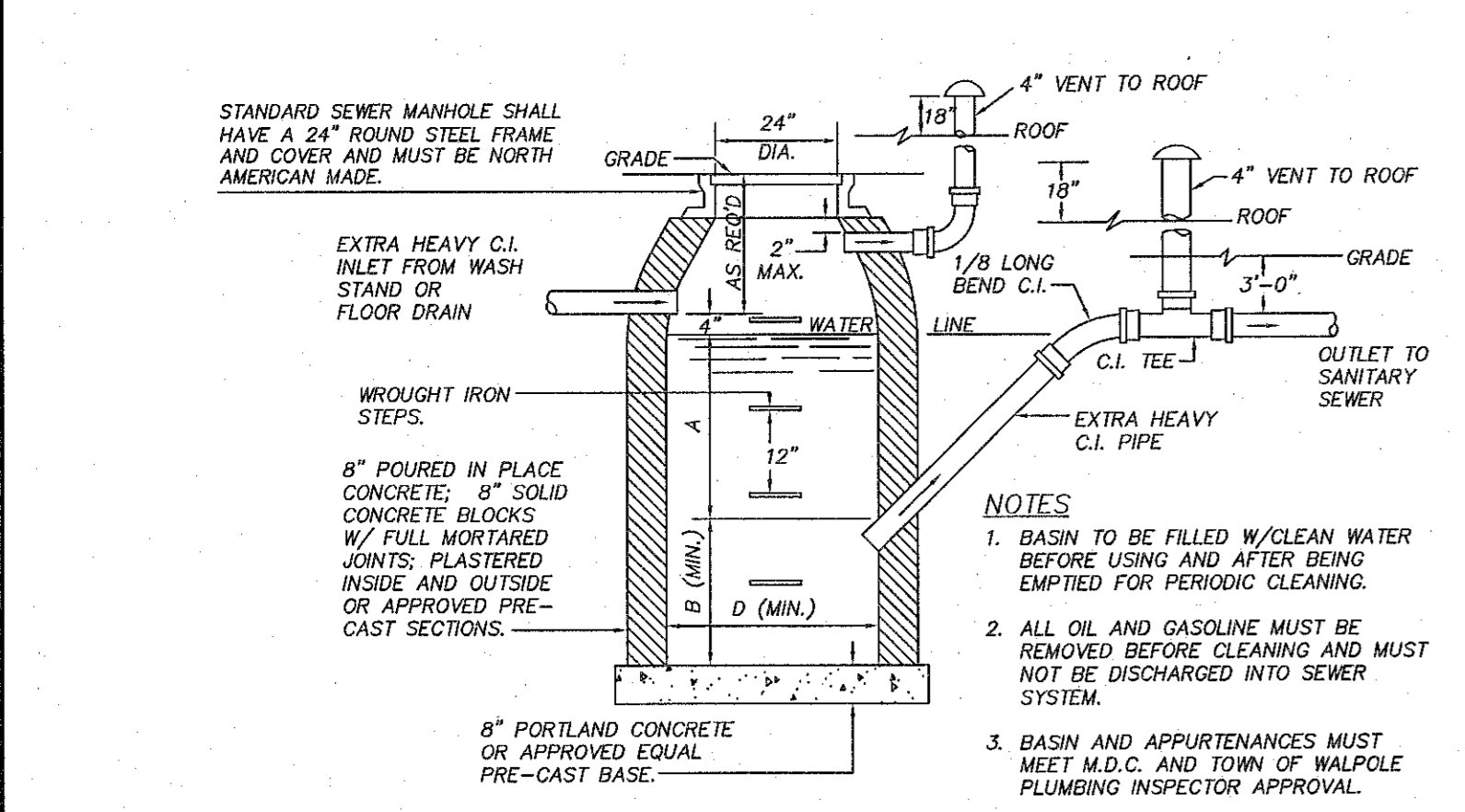
TYPICAL FORCE LINE INSTALLATION DETAIL
(SEWER SERVICE)
NOT TO SCALE



TYPICAL SEWER TRENCH DETAIL
NOT TO SCALE



FLAT TOP SECTION
NOT TO SCALE



STANDARD M.D.C. CATCH BASIN & GASOLINE TRAP DETAILS
NOT TO SCALE

INLET	D	A	B
4"	4'-0" 3'-0"	2'-3" 3'-0"	1'-11" 2'-6"
5"	3'-6" 3'-6"	5'-0" 4'-0"	4'-0" 3'-0"
6"	4'-0" 4'-0"	5'-0" 3'-0"	3'-0" 2'-6"
8"	5'-0" 5'-0"	6'-0" 3'-0"	5'-0" 3'-0"

NOTE: FOR INLETS LARGER THAN 8", THE DESIGN AND DIMENSIONS WILL BE DETERMINED FOR EACH PARTICULAR CASE. CIRCULAR BASINS ARE RECOMMENDED.

- SEWER SERVICES SHALL BE LAID AT LEAST 10'-0" HORIZONTALLY FROM WATER LINES AND SERVICES OR FOLLOW "DEP 2001 GUIDELINES AND POLICIES FOR PUBLIC WATER SYSTEMS" REGARDING VERTICAL SEPARATION. WATER PIPE CROSSINGS MUST PROVIDE A 0'-18" VERTICAL SEPARATION AND FOLLOW "DEP 2001 GUIDELINES AND POLICIES FOR PUBLIC WATER SYSTEMS".
- NO BACKFILL WHAT-SO-EVER SHALL BE PLACED UNTIL PERMITTED BY THE TOWN ENGINEER OR HIS/HER AGENT.
 - MAXIMUM TRENCH WIDTH SHALL BE THE PIPE DIAMETER PLUS 2'-0".
 - LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF 0'-6" BELOW AND ON EACH SIDE OF THE PIPE.
 - SEWER SERVICES SHALL BE BEDDED ON A MINIMUM OF 0'-4" THOROUGHLY COMPACTED GRANULAR BEDDING CONSISTING OF 3/4" CRUSHED STONE M.H.D. (M2.01.4).
 - SEWER SERVICES SHALL HAVE A MINIMUM DIAMETER OF 0'-6" AND A MINIMUM SLOPE OF 2.0% (FT/FT). THE SIDES OF THE SERVICES SHALL BE BACKFILLED AND HAND TAMPED. INITIAL BACKFILL MATERIAL SHALL CONTAIN NO STONES LARGER THAN 0'-3".
 - DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL NOT BE USED AS BACKFILL WITHIN TWO (2) FEET OF THE TOP OF THE PIPE.
 - SEWER SERVICES SHALL HAVE A MINIMUM COVER OF 4'-0" FROM THE TOP OF THE PIPE. SERVICES UNDER PAVED SURFACES OR SIDEWALKS SHALL BE FORMED OF SUCCESSIVE LAYERS NOT MORE THAN ONE (1) FOOT IN DEPTH, UNIFORMLY DISTRIBUTED AND EACH LAYER THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE MATERIAL. JACKING IS NOT ALLOWED.
 - NO PUDDLING OR JETTING IS ALLOWED WITHIN THE PUBLIC LAYOUT WITHOUT WRITTEN PERMISSION OF THE TOWN ENGINEER.

FORCE MAIN SPECIFICATIONS

- FORCE MAIN SPECIFICATIONS FOR ≤ 2" COMMON FORCE MAIN C.O. @ 20'
- FORCE MAIN SHALL BE MADE OF BLACK OR BLUES HDPE SDR 11 FOR LINES ≤ 2". SINGLE SERVICE LINES SHALL BE 1.5" C.T.S. (COPPER TUBING SIZE).
- TRACKER WIRE SHALL BE 10GA SOLID COPPER.
- USE OF REDUNDANT SWING CHECK VALVES REQUIRED. BALL CHECK VALVES SHALL BE PROHIBITED.
- ALL FITTINGS SHALL BE MADE OF STAINLESS STEEL.
- CORPORATION ON COMMON USE MAINS SHALL BE REQUIRED.

PROJECT PATH	REV. #	DESCRIPTION	DATE	BY

**TOWN OF WALPOLE, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PLAN SHOWING TYPICAL
SEWERAGE CONSTRUCTION DETAILS**

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**DEFINITIVE SUBDIVISION PLAN
"WARWICK ROAD EXTENSION
WALPOLE, MASSACHUSETTS**

PREPARED FOR:
WALL STREET DEVELOPMENT CORP.
P.O. BOX 272
WESTWOOD, MASSACHUSETTS 02090

SHEET: 12 of 12

Town of Walpole

Date: 3-28-19
Scale: AS SHOWN
Drawn By: R. ROSA
Checked By: C. JOHNSON
Appr. By: M. WALKER