

# SITE PLAN FOR PROPOSED AGE RESTRICTED HOUSING DEVELOPMENT 797 BOSTON ROAD GROTON, MA

**HOWARD STEIN HUDSON**  
114 Turnpike Road, Suite 2C  
Chelmsford, MA 01824  
www.hshassoc.com

PREPARED FOR:  
119 PARTNERS LLC  
11 SUMMER STREET SUITE 8  
CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED  
HOUSING DEVELOPMENT  
797 BOSTON ROAD  
GROTON, MA 01450**

**GENERAL NOTES:**

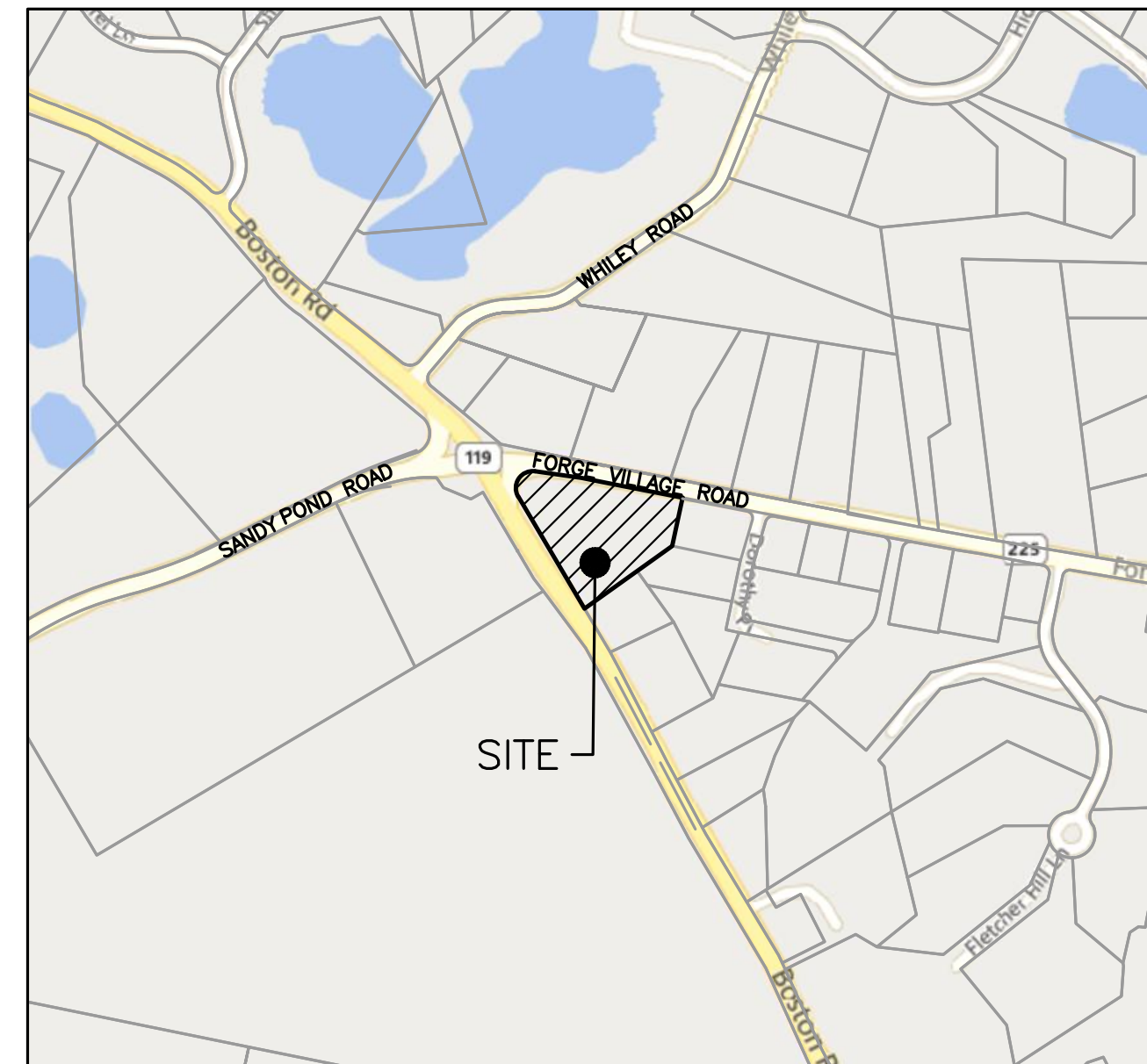
1. EXISTING PROPERTY LINE AND UTILITY INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY WSP USA, INC. REVISED THROUGH 07-13-23.
2. THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
3. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
5. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED AND DISPOSED.
7. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

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**REFERENCE SHEETS**

- 1 OF 1 EXISTING CONDITIONS PLAN BY WSP



**LOCUS MAP**  
1"=500'

**OWNER**

119 PARTNERS, LLC  
11 SUMMER STREET SUITE 8  
CHELMSFORD, MA 01824

**ASSESSORS INFORMATION**

PARCEL ID: MAP 133 BLOCK 49 LOT 0

**REFERENCES**

1. EXISTING CONDITIONS SURVEY BY WSP USA INC.
2. BASE MAP OUTSIDE OF PROPERTY LINE WAS CREATED FROM OLIVER MASSGIS
3. BASE MAP OUTSIDE OF PROPERTY LINE WAS CREATED FROM TOWN OF GROTON GIS

**ZONING REQUIREMENTS**

WATER RESOURCES PROTECTION DISTRICT III  
SPECIAL PERMIT FOR TITLE 5 SEPTIC SYSTEM  
RA - RESIDENTIAL AGRICULTURE DISTRICT  
AGE-RESTRICTED HOUSING PROPOSED BY SPECIAL PERMIT

**DIMENSIONAL REQUIREMENTS**

	REQUIRED	PROPOSED
MINIMUM LOT AREA	80,000 SF	117,594 SF
MINIMUM FRONTAGE	225 FT	943 FT
MAXIMUM HEIGHT	35 FT	< 35 FT
MAXIMUM STORIES	3	2
MAXIMUM IMPERVIOUS	25%	22%± (26,271 SF±)
MINIMUM FRONT SETBACK	50 FT	51 FT
MINIMUM SIDE SETBACK	15 FT	76 FT
MINIMUM REAR SETBACK	15 FT	69 FT

**MAXIMUM DWELLING UNITS REQUIREMENT:**

PER TOWN OF GROTON ZONING CODE SECTION 218-9.3(B)(2), THE MAXIMUM NUMBER OF DWELLING UNITS FOR AGE-RESTRICTED HOUSING IS AS FOLLOWS:

- 1 UNIT / 5,000 SF LOT AREA
- LOT AREA = 117,594 SF = (23.5 X 5,000)
- 23 UNITS AT 1 UNIT/5,000 SF LOT AREA

OR SUBJECT TO PLANNING BOARD APPROVAL BASED ON PROXIMITY TO OPEN SPACE, SCREENING, AND TOPOGRAPHY:

- 1 UNIT / 3,000 SF LOT AREA =
- LOT AREA = 117,594 SF = (39.2 X 3,000)
- 39 UNITS AT 1 UNIT/3,000 SF LOT AREA

**PROPOSED DWELLING UNITS:**

24 UNITS (12 PER STRUCTURE)

**PARKING REQUIREMENTS**

AGE-RESTRICTED HOUSING: 1 SPACE/UNIT  
1 SPACE X 24 UNITS = 24 SPACES REQUIRED  
36 SPACES PROPOSED INCLUDING 4 ACCESSIBLE SPACES

**SITE PLAN AND SPECIAL PERMITS REQUIRED**

1. MASSACHUSETTS GENERAL LAWS C.40A SECTION 9 - ZONING ORDINANCE
2. TOWN OF GROTON, MA GENERAL LEGISLATION CHAPTER 218 - ZONING SECTION 218-9.3(B)(5)
3. SPECIAL PERMIT PER SECTION 218-7.2 WATER RESOURCE PROTECTION OVERLAY DISTRICT (I) WASTEWATER TREATMENT WORKS FOR SANITARY WASTEWATERS THAT ARE SUBJECT TO 314 CMR 5.00, INCLUDING PRIVATELY OWNED FACILITIES.
4. SPECIAL PERMIT FOR SECTION 218-5.2 SCHEDULE OF USE REGULATIONS, SECTION 218-9.3 MULTIFAMILY USE B. AGE-RESTRICTED HOUSING.

**PROJECT TEAM**

**OWNER/APPLICANT**

119 PARTNERS, LLC  
11 SUMMER STREET SUITE 8  
CHELMSFORD, MA 01824

**ARCHITECT**

THE MZO GROUP  
335 MAIN STREET, SUITE 201  
STONEHAM, MA 02180

**SURVEYOR**

WSP USA, INC.  
10 AL PAUL LANE, SUITE 103  
MERRIMACK, NH 03054

**CIVIL ENGINEER**

HOWARD STEIN HUDSON  
114 TURNPIKE ROAD, SUITE 2C  
CHELMSFORD, MA 01824

**LANDSCAPE ARCHITECT**

JAMES K EMMANUEL ASSOCIATES  
22 CARLTON ROAD  
MARBLEHEAD, MA 01945

**LIGHTING CONSULTANT**

EXPOSURE 2 LIGHTING  
6 SCOTT ROAD, UNIT A  
HAMPTON, NH 03842

**REVISIONS:**

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW



SITE  
PLAN

COVER  
SHEET

DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

C.1

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW



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SITE PLAN

NOTES AND  
 LEGEND  
 SHEET

DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE
C.2	
SHEET 2 OF 18	

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW

**UTILITY NOTES:**

- THE CONTRACTOR SHALL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES, AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
- THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED UTILITY SERVICES SHALL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, WATER, GAS AND SEWER).
- A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL PROJECT-RELATED UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO START OF CONSTRUCTION.
- BUILDING TO BE SERVICED BY UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED.
- AS-BUILT PLANS SHALL BE SUBMITTED TO THE ALL MUNICIPAL DEPARTMENTS SPECIFIED BY CONDITIONS OF APPROVAL.
- CONTRACTOR SHALL PLACE 2" WIDE METAL WIRE IMPREGNATED RED PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS AND SERVICES.
- ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
- PROPOSED RIM ELEVATIONS OF DRAINAGE AND SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, AND OTHER UTILITIES TO FINISH GRADE AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
- WATER MAINS SHALL BE HYDROSTATICALLY PRESSURE TESTED FOR LEAKAGE PRIOR TO ACCEPTANCE.
- THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS, TEES, MECHANICAL JOINTS, AND FIRE HYDRANTS.
- DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
- EXISTING UTILITIES SHALL BE DIGSAFED AND PRIVATE UTILITY LOCATOR SERVICES SHOULD BE UTILIZED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL MINIMIZE THE DISRUPTIONS TO THE EXISTING SEWER FLOWS AND THOSE INTERRUPTIONS SHALL BE LIMITED TO LOCAL SEWER DEPARTMENT REGULATIONS.
- ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED GATE VALVE.
- THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO USERS AT ALL TIMES. REQUIREMENTS BY THE TOWN WATER DEPARTMENT REGARDING NOTIFICATION FOR INTERRUPTION OF SERVICE SHOULD BE INCLUDED (TYPICALLY 24 HOURS) AND ALLOWABLE INTERRUPTION DURATION. WATER TESTING AND DISINFECTION REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- ALL WATER AND SEWER INSTALLATION SHALL BE COORDINATED WITH THE TOWN OF GROTON, MA.
- PROPOSED SEPTIC SYSTEM SUBJECT TO APPROVAL BY NASHOBA BOARD OF HEALTH.

**SITE NOTES:**

- THE INTENT OF THIS PLAN IS TO CREATE 55 AND OVER AGE-RESTRICTED HOUSING THROUGH THE SPECIAL PERMIT BYLAW OF THE TOWN OF GROTON AND THE STATE OF MASSACHUSETTS.
- ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE TOWN AND STATE STANDARDS AND REGULATIONS.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, AND/OR OWNER, IN ORDER TO OBTAIN AND/OR PAY ALL THE NECESSARY LOCAL PERMITS, FEES, AND BONDS.
- ALL PROPOSED SIGNAGE SHALL CONFORM WITH THE LOCAL TOWN ZONING REGULATIONS, UNLESS A VARIANCE IS OTHERWISE REQUESTED.
- ALL SIGNAGE AND PAVE MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND MASSDOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- SNOW TO BE STORED AT EDGE OF PAVEMENT, AS SHOWN ON PLANS. ALL EXCESS SNOW SHALL BE TRUCKED OFF SITE TO AN APPROVED SNOW DUMPING LOCATION.
- ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.

**GRADING AND DRAINAGE NOTES:**

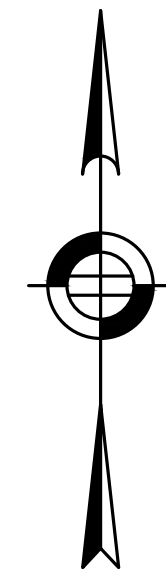
- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER HOWARD STEIN HUDSON, NOR ANY OTHER EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 888-DIG-SAFE
- ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED. REFER TO THE CONSTRUCTION SEQUENCE ON DETAIL SHEET #1.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- PROPOSED RIM ELEVATIONS OF DRAINAGE STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES UNLESS OTHERWISE NOTED.
- ALL DRAINAGE AND SANITARY STRUCTURES INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
- ALL DRAINAGE STRUCTURES SHALL BE PRECAST, UNLESS OTHERWISE SPECIFIED. SEE DETAIL SHEETS FOR DRAINAGE DETAILS.
- IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES IN ALL AREAS WHERE SILT SOCK IS NOT REQUIRED.
- ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 3 DAYS OF FINAL GRADING.
- SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE, AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- CONSTRUCTION VEHICLES SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE TO THE EXTENT POSSIBLE THROUGHOUT CONSTRUCTION. IF THE INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, IF DEEMED NECESSARY THROUGH ON-SITE INSPECTION BY ENGINEER AND/OR REGULATORY OFFICIALS.
- ALL STORMWATER BMP'S SHALL BE INSPECTED BY DESIGN ENGINEER AFTER INSTALLATION TO CONFIRM ALL BMP'S ARE INSTALLED IN COMPLIANCE WITH PLANS.

**EROSION CONTROL PLAN NOTES:**

- ALL CONSTRUCTION TRAFFIC TO ENTER/EXIT THE SITE VIA THE STABILIZED CONSTRUCTION ENTRANCE.
- IT IS THE RESPONSIBILITY OF THE CHOSEN CONTRACTOR TO ENSURE ALL STORMWATER INLETS DOWNSTREAM OF CONSTRUCTION ARE FITTED WITH TEMPORARY INLET PROTECTION. ALL SEDIMENTATION CONTROL DEVICES INSTALLED WITHIN THE TOWN'S RIGHT OF WAY SHALL BE MAINTAINED, INSPECTED, CLEANED AND REPLACED AS NECESSARY TO PREVENT FLOODING DURING RAIN EVENTS.
- UPON COMPLETION OF WORK, AND APPROVAL IS GRANTED BY THE TOWN OF GROTON DPW, ANY SEDIMENTATION CONTROLLED DEVICES SHALL BE REMOVED AS SOON AS POSSIBLE.
- ALL PROPOSED CATCH BASINS AND STORMWATER STRUCTURES SHALL BE FITTED WITH INLET PROTECTIONS DURING CONSTRUCTION AS TO MINIMIZE EROSION AND SEDIMENTATION WITHIN THE PROPOSED STORMWATER MANAGEMENT SYSTEM.
- ALL EXISTING SITE FEATURES NOT PROPOSED TO BE REMOVED SHALL BE PROTECTED DURING CONSTRUCTION TO THE MAXIMUM EXTENT FEASIBLE. ANY DAMAGE SHALL BE REPAIRED TO THE PRE-CONSTRUCTION CONDITION.
- 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.
- STABILIZATION OF ALL RE-GRADED AND SOIL STOCKPILE AREAS MUST BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL DEVICES MUST BE PROPERLY REMOVED AND DISPOSED. ALL DAMAGED CONTROLS MUST BE REMOVED, REPLACED, AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. 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 TOWN DEPARTMENTS OF ANY TRANSFER OF THIS RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING WIND EROSION AND DUST THROUGHOUT THE LIFE OF THEIR CONTRACT. DUST CONTROL MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLING OF WATER ON EXPOSED SOILS AND STREET SWEEPING WITHIN ADJACENT ROADWAYS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FILE FOR NECESSARY PERMITS TO PERFORM ANY OFF-SITE CONTROL MEASURES.
- 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.
- IF A DISTURBED AREA WILL BE EXPOSED FOR GREATER THAN ONE YEAR, PERMANENT GRASSES OR OTHER APPROVED COVER MUST BE INSTALLED.
- THE CONTRACTOR MUST KEEP ON-SITE AT ALL TIMES ADDITIONAL SILT WATTLE AND SILT FENCE FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER, OR THE TOWN, TO MITIGATE ANY EMERGENCY CONDITION.
- THE 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.
- DEMOLITION AND CONSTRUCTION DEBRIS MUST BE PROPERLY CONTAINED AND DISPOSED OF.
- 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.
- ANY LOCATION OF INGRESS AND EGRESS FROM THE SITE SHALL BE FITTED WITH A STABILIZED CONSTRUCTION ENTRANCE.
- LIMIT OF EROSION CONTROL SHALL CONSIST OF STRAW WATTLE BACKED BY SILT FENCE UNLESS OTHERWISE NOTED. ALL LIMITS OF WORK UPSLOPE OF A WETLAND SHALL BE FITTED WITH PROPER EROSION CONTROL. LIMIT OF EROSION CONTROL SHALL BE INSPECTED EVERY 7 DAYS BY THE SITE CONTRACTOR OR AFTER EVERY RAIN EVENT TOTALING AT LEAST 0.25" OF PRECIPITATION, WHICH EVER COMES FIRST. ANY DAMAGED EROSION CONTROL SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON BEING FOUND. SWPPP INSPECTIONS BY THE CONTRACTED SWPPP INSPECTOR MAY HAPPEN CONCURRENTLY OR INDEPENDENTLY OF THIS REQUIREMENT.

**LEGEND**

⊙	IRON ROD FOUND	⊕	UTILITY POLE WITH TRANSFORMER	---	ABUTTERS LOT LINE
●	AREA DRAIN	⊕*	UTILITY POLE WITH LIGHT AND TRANSFORMER	---	PROPERTY LINE
■	CATCH BASIN	BOMO	BOLT OVER MAIN OUTLET	---	EASEMENT
⊕	DRAIN MANHOLE	BIT	BITUMINOUS PAVEMENT	---	CHAIN LINK FENCE
⊕	NO LABEL MANHOLE	EOP	EDGE OF PAVEMENT	---	METAL/WIRE FENCE
⊕	SEWER MANHOLE	EOW	EDGE OF WATER	---	WOOD GUARDRAIL
⊕	ELECTRIC HANDHOLE	CONC	CONCRETE PAVEMENT	---	TREE LINE
⊕	UNKNOWN HANDHOLE	BB	BITUMINOUS BERM	---	INTERMEDIATE CONTOURS
⊕	GAS VALVE	GC	GRANITE CURB	---	INDEX CONTOURS
⊕	TELEPHONE MANHOLE	RWC	CONCRETE RETAINING WALL	---	WETLAND LINE
⊕	WATER GATE	RW STONE	STONE RETAINING WALL	---	OVERHEAD WIRES
⊕	FIRE HYDRANT	RW BLOCKS	BLOCK RETAINING WALL	---	SEWER LINE
○	GUY WIRE	RWW	WOOD RETAINING WALL	---	DRAIN LINE
○	UTILITY POLE	GRW	WOOD GUARD RAIL	---	WATER LINE
○	UTILITY POLE WITH LIGHT	HTP	HANDICAP TRACTION PAD	---	GAS LINE
⊕	VENT	LSA	LANDSCAPED AREA	---	TELEPHONE LINE
⊕	PEDESTRIAL SIGNAL	FFE	FINISHED FLOOR ELEVATION	---	UNDERGROUND ELECTRIC
⊕	DECIDUOUS TREE	SILL	DOOR SILL ELEVATION	---	
---	SIGN (SINGLE POSTED)	SWL	SOLID WHITE LINE	---	
○	POST	DYL	DOUBLE YELLOW LINE	---	
⊕	MONITORING WELL	RCP	REINFORCED CONCRETE PIPE	---	
⊕	BOLLARD	PVC	POLYVINYL CHLORIDE PIPE	---	
		CIP	CAST IRON PIPE	---	
		CLF	CHAIN LINK FENCE	---	
		IRON	WROUGHT IRON FENCE	---	
		POLY	POLYVINYL CHLORIDE RAILING	---	
		NPV	NO PIPES VISIBLE	---	



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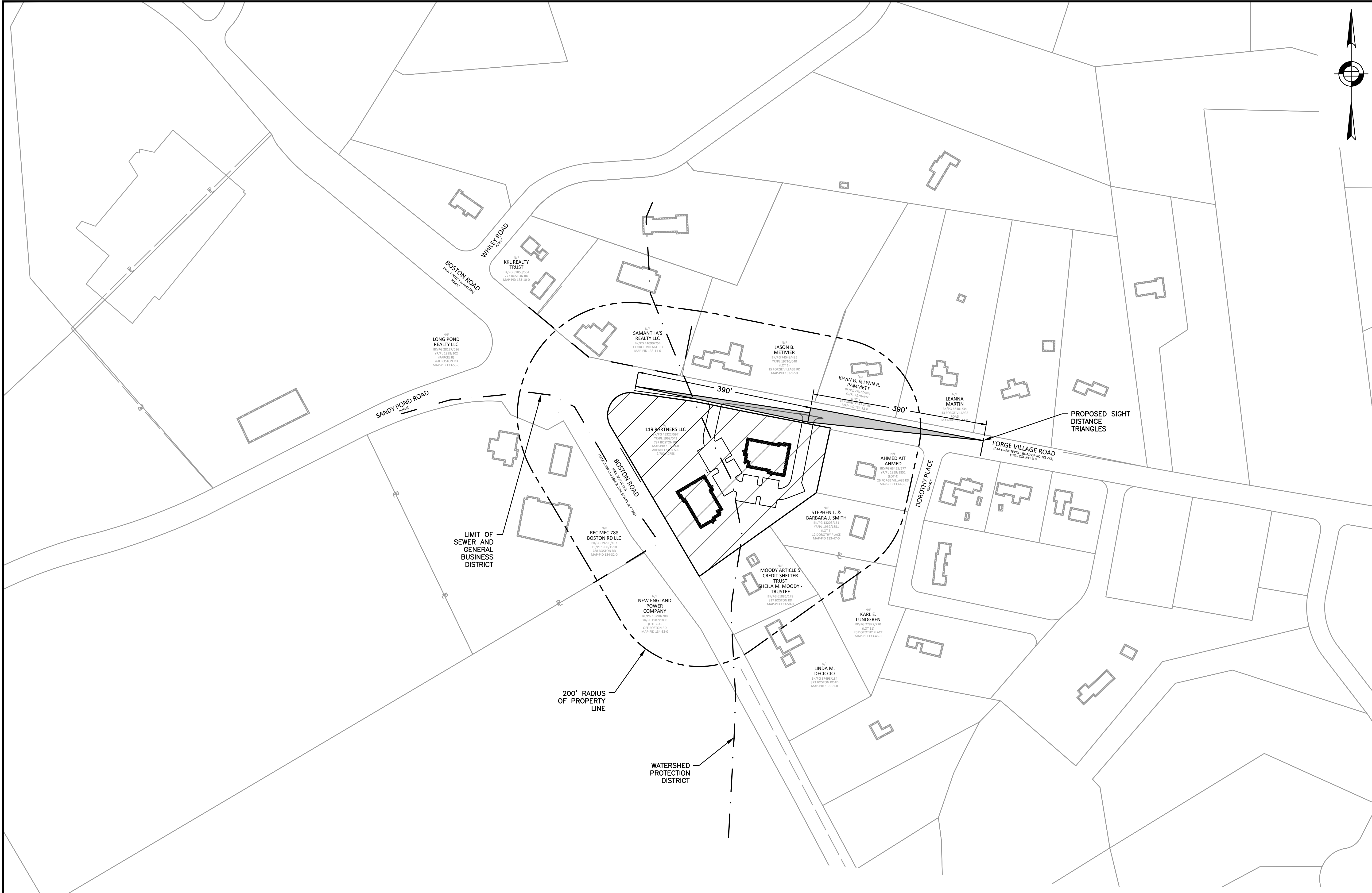


SITE PLAN

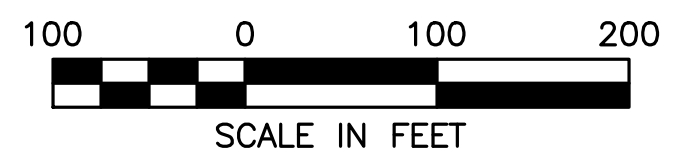
LOCUS MAP

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DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

C.3



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  4. ABUTTERS INFORMATION WAS CREATED FROM MASSLANDRECORDS.COM FOR SOUTHERN MIDDLESEX RECORDED/REGISTERED LAND

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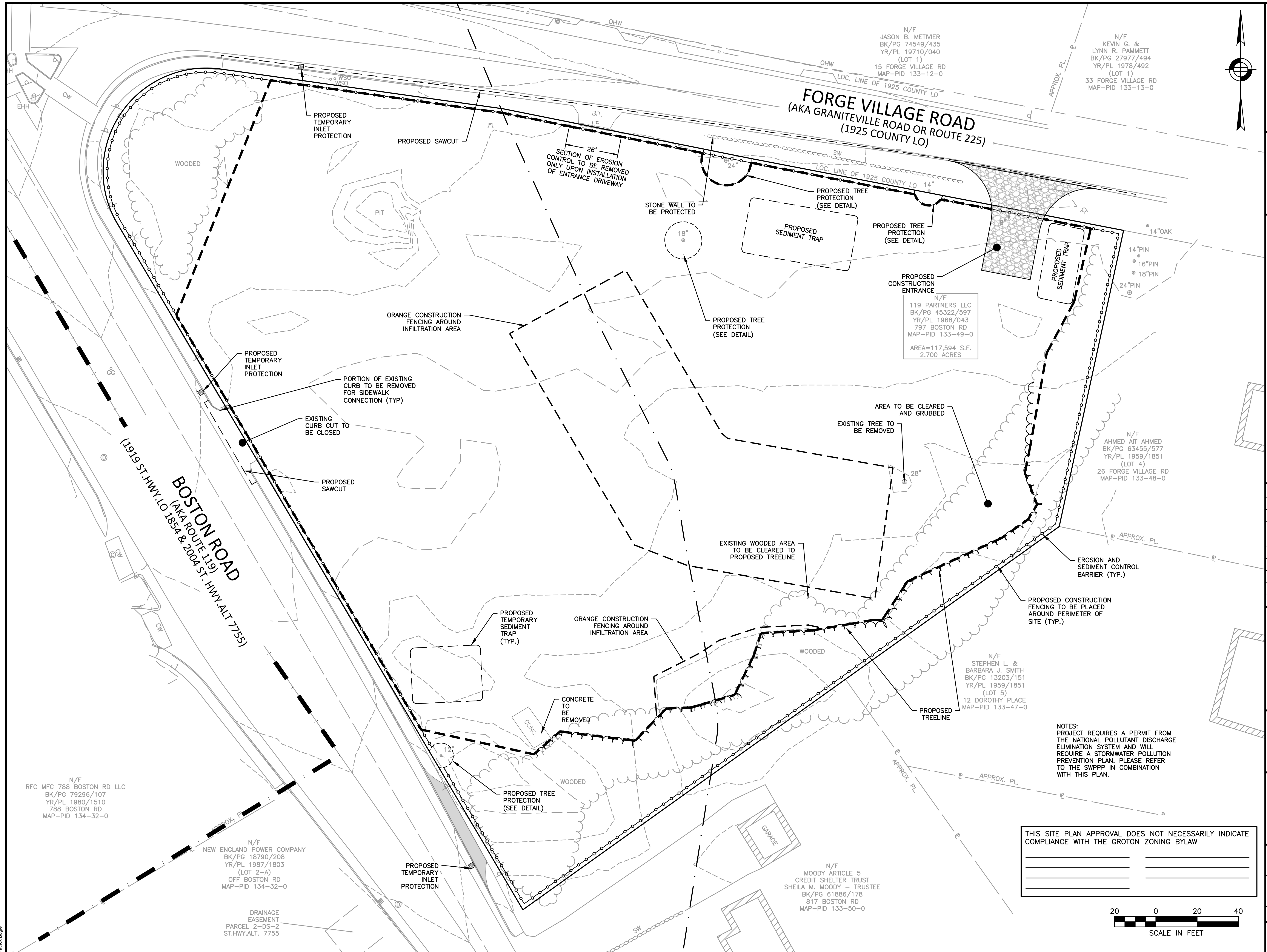


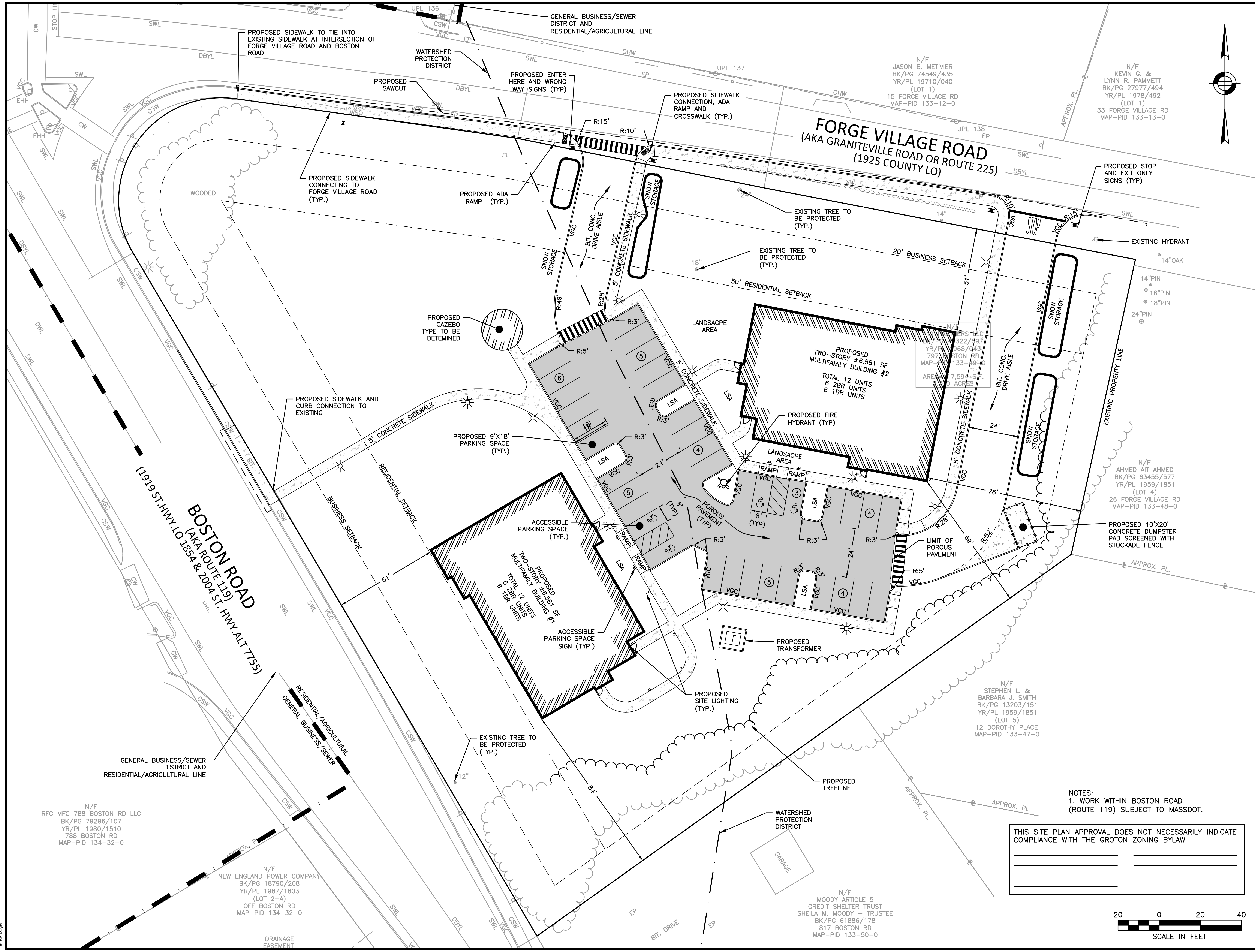
SITE PLAN

**DEMOLITION AND EROSION CONTROL PLAN**

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SITE PLAN

**LAYOUT AND MATERIALS PLAN**

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C.5

SHEET 5 OF 18

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW



NOTES:  
 1. WORK WITHIN BOSTON ROAD (ROUTE 119) SUBJECT TO MASSDOT.

N/F  
 RFC MFC 788 BOSTON RD LLC  
 BK/PG 79296/107  
 YR/PL 1980/1510  
 788 BOSTON RD  
 MAP-PID 134-32-0

N/F  
 NEW ENGLAND POWER COMPANY  
 BK/PG 18790/208  
 YR/PL 1987/1803  
 (LOT 2-A)  
 OFF BOSTON RD  
 MAP-PID 134-32-0

N/F  
 MOODY ARTICLE 5  
 CREDIT SHELTER TRUST  
 SHEILA M. MOODY - TRUSTEE  
 BK/PG 61886/178  
 817 BOSTON RD  
 MAP-PID 133-50-0

N/F  
 STEPHEN L. &  
 BARBARA J. SMITH  
 BK/PG 13203/151  
 YR/PL 1959/1851  
 (LOT 5)  
 12 DOROTHY PLACE  
 MAP-PID 133-47-0

N/F  
 JASON B. METVIER  
 BK/PG 74549/435  
 YR/PL 19710/040  
 (LOT 1)  
 15 FORGE VILLAGE RD  
 MAP-PID 133-12-0

N/F  
 KEVIN G. &  
 LYNN R. PAMMETT  
 BK/PG 27977/494  
 YR/PL 1978/492  
 (LOT 1)  
 33 FORGE VILLAGE RD  
 MAP-PID 133-13-0

PREPARED FOR:  
 119 PARTNERS LLC  
 11 SUMMER STREET SUITE 8  
 CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED  
 HOUSING DEVELOPMENT**  
 797 BOSTON ROAD  
 GROTON, MA 01450

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW

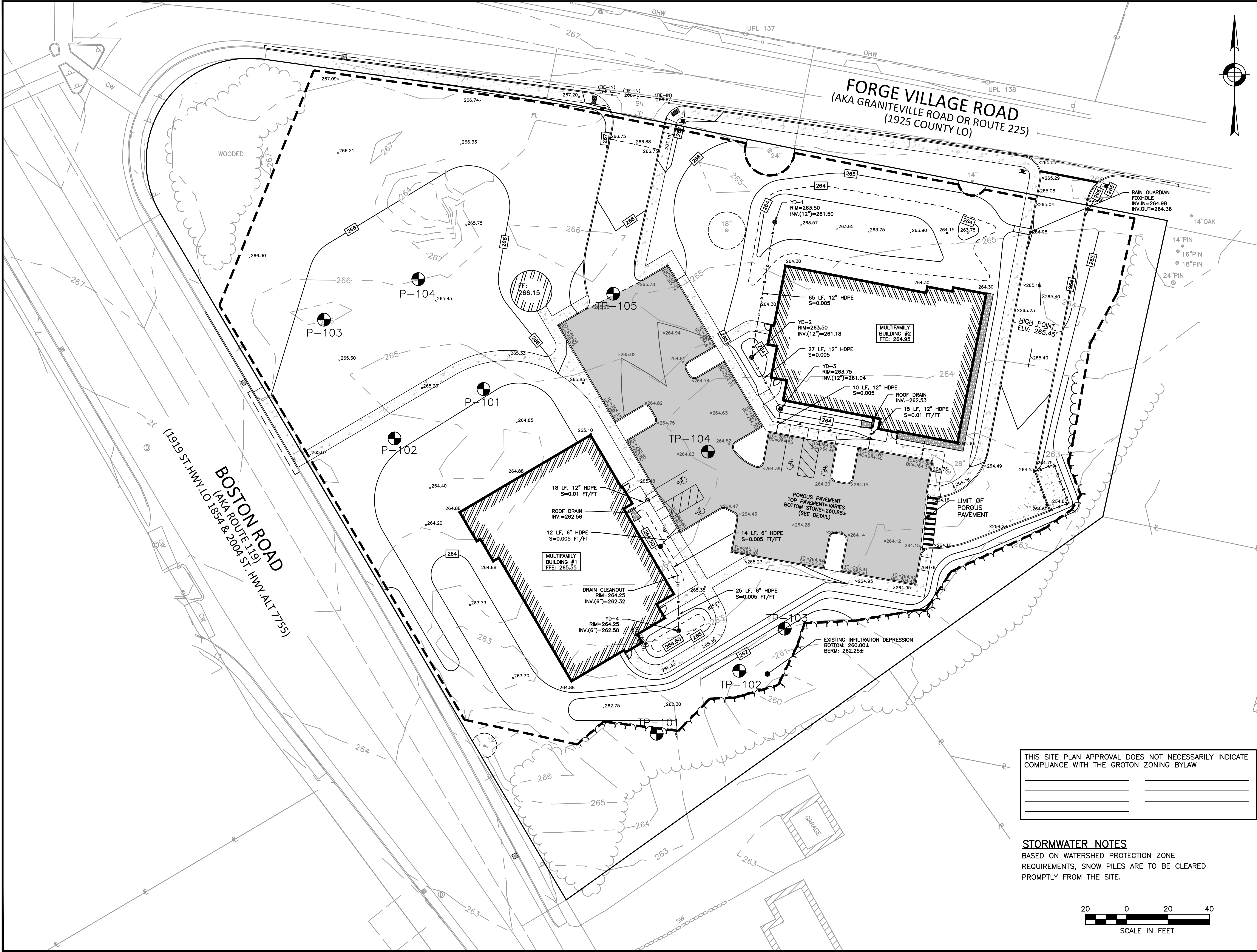


SITE PLAN

**GRADING AND  
 DRAINAGE  
 PLAN**

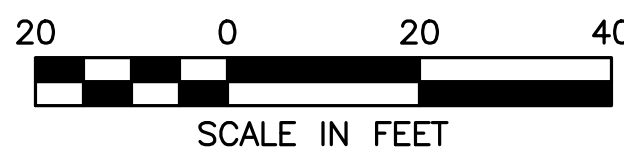
DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

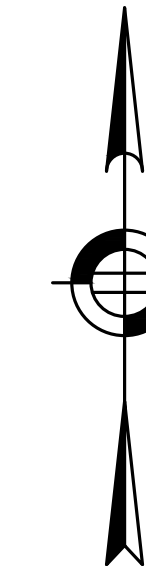
C.6



THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW

**STORMWATER NOTES**  
 BASED ON WATERSHED PROTECTION ZONE REQUIREMENTS, SNOW PILES ARE TO BE CLEARED PROMPTLY FROM THE SITE.





PREPARED FOR:  
 119 PARTNERS LLC  
 11 SUMMER STREET SUITE 8  
 CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED  
 HOUSING DEVELOPMENT**  
 797 BOSTON ROAD  
 GROTON, MA 01450

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW

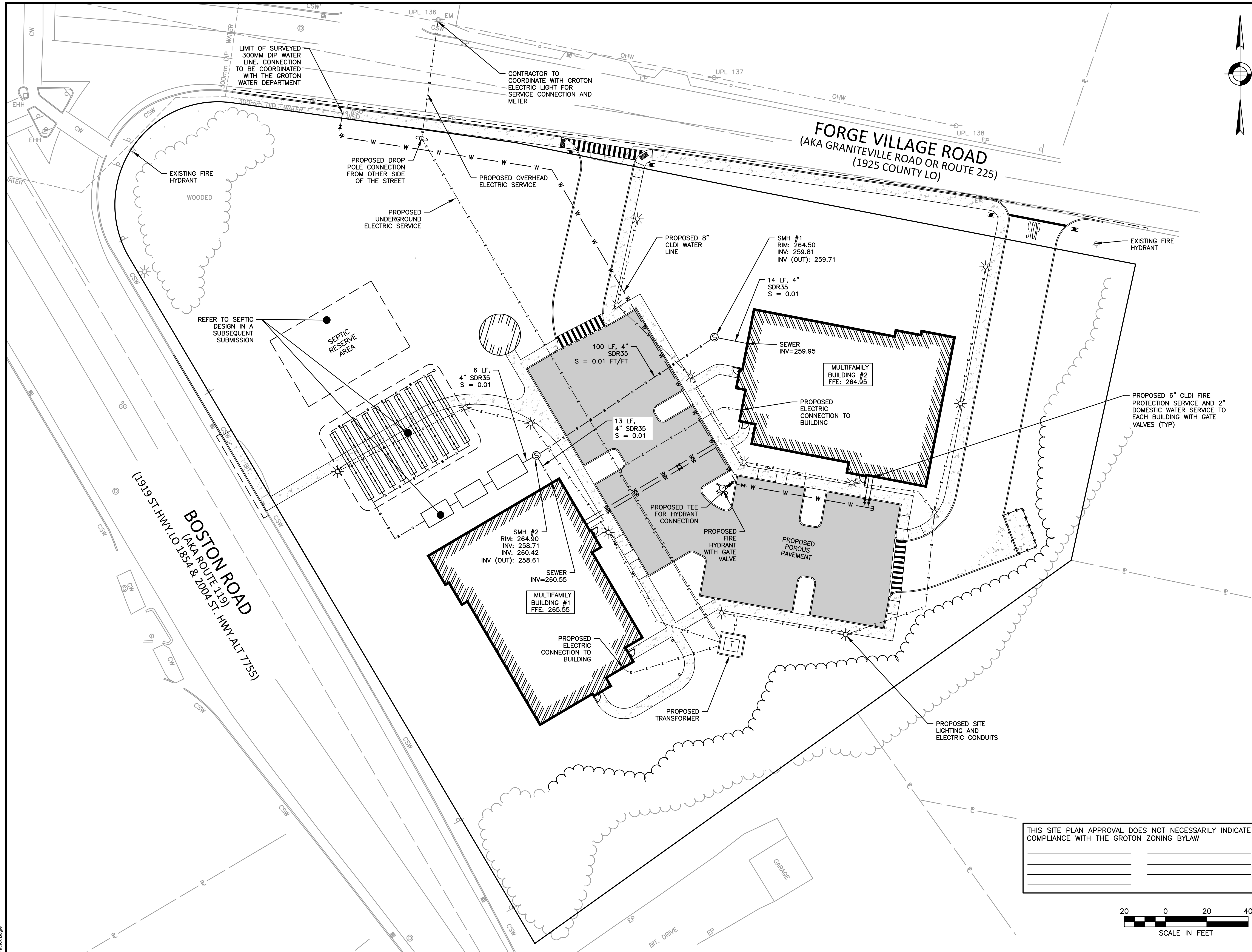


SITE  
 PLAN

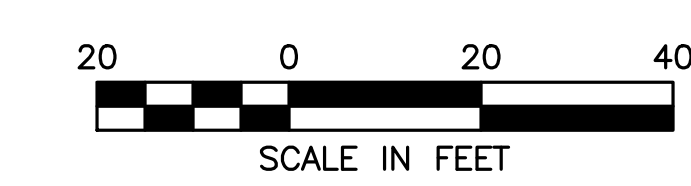
UTILITY  
 PLAN

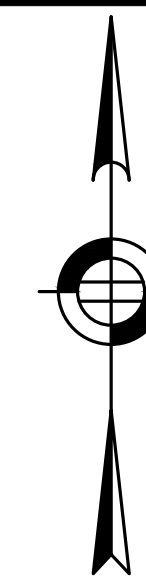
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PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

C.7



THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW





PREPARED FOR:  
 119 PARTNERS LLC  
 11 SUMMER STREET SUITE 8  
 CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED  
 HOUSING DEVELOPMENT**  
 797 BOSTON ROAD  
 GROTON, MA 01450

REVISIONS:			
NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW

SITE PLAN

**LIGHTING PLAN**

DATE: 2/16/2024

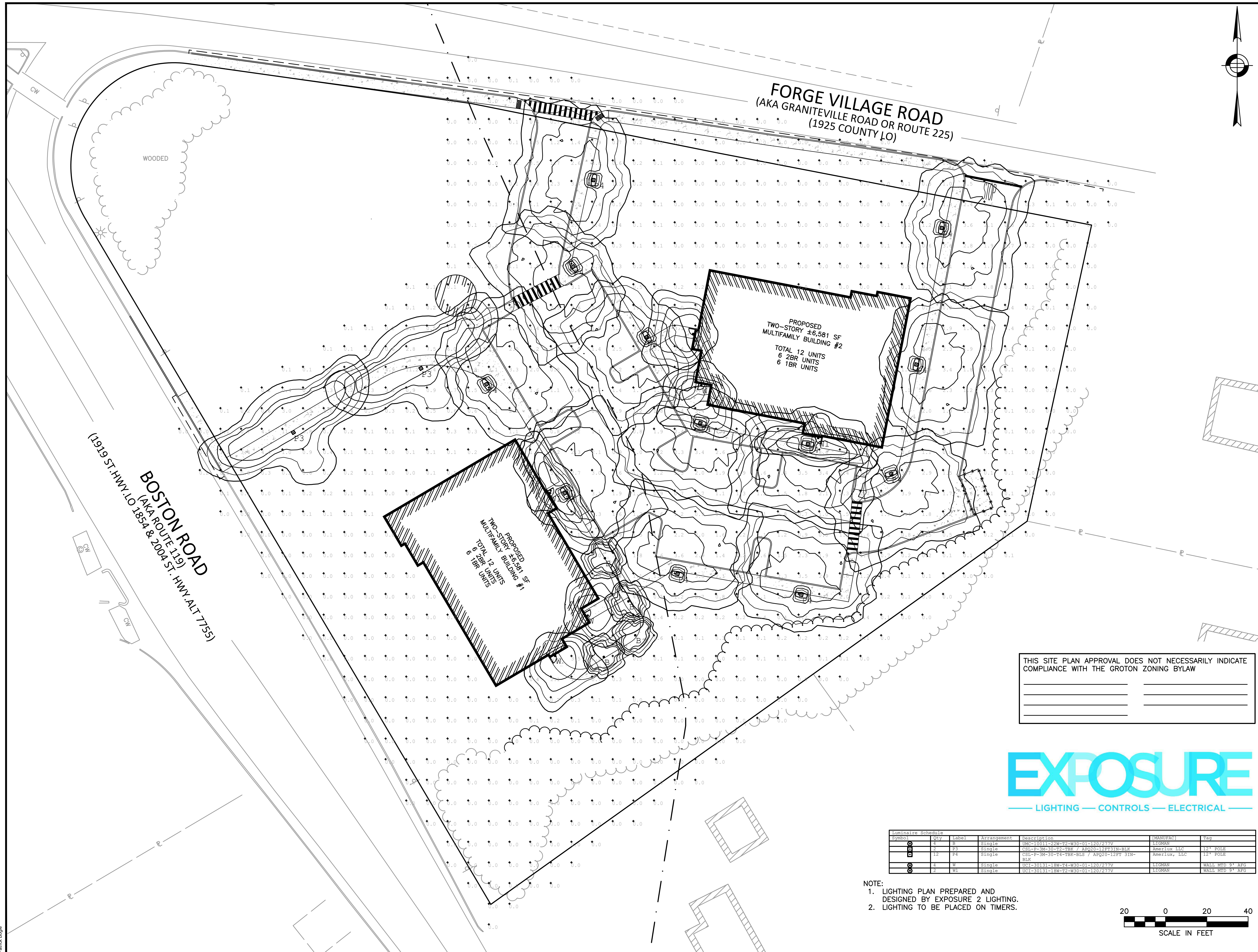
PROJECT NUMBER: 17267

DESIGNED BY: NC

DRAWN BY: NC

CHECKED BY: KE

C.8



Luminaire Schedule	Qty	Label	Arrangement	Description	MANUFACT	Tag
0	4	B	Single	LMC-10011-228-T2-W30-01-120/277V	LITOMAN	
1	2	P3	Single	CSL-P-3M-30-72-TBR / APO20-12FT-3IN-BLK	Amerlux, LLC	12' POLE
1	12	P4	Single	CSL-P-3M-30-74-TBR-BLS / APQ20-12FT 3IN-BLK	Amerlux, LLC	12' POLE
1	4	W	Single	DCS-30131-18W-T4-W30-01-120/277V	LITOMAN	WALL MTD 9' AFO
0	2	W1	Single	DCI-30131-18W-T2-W30-01-120/277V	LITOMAN	WALL MTD 9' AFO

- NOTE:
- LIGHTING PLAN PREPARED AND DESIGNED BY EXPOSURE 2 LIGHTING.
  - LIGHTING TO BE PLACED ON TIMERS.







PREPARED FOR:  
 119 PARTNERS LLC  
 11 SUMMER STREET SUITE 8  
 CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED HOUSING DEVELOPMENT**  
 797 BOSTON ROAD  
 GROTON, MA 01450

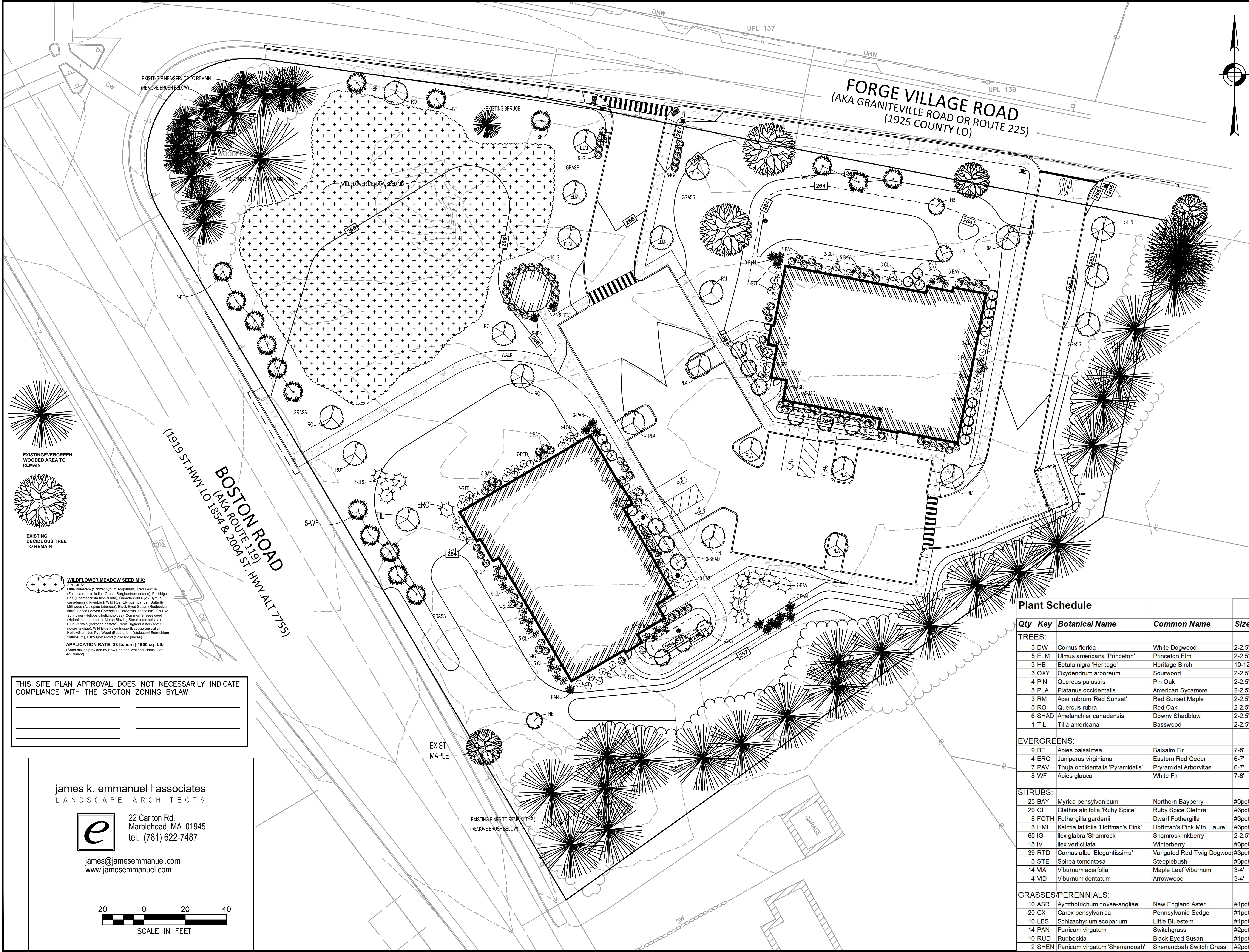
REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW

SITE PLAN

LANDSCAPE PLAN

DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE
<b>C.10</b>	
SHEET 10 OF 18	

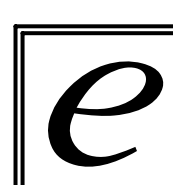


**Plant Schedule**

Qty	Key	Botanical Name	Common Name	Size
<b>TREES:</b>				
3	DW	Cornus florida	White Dogwood	2-2.5'cal
5	ELM	Ulmus americana 'Princeton'	Princeton Elm	2-2.5'cal
3	HB	Betula nigra 'Heritage'	Heritage Birch	10-12'
3	OXY	Oxydendrum arboreum	Sourwood	2-2.5'cal
4	PIN	Quercus palustris	Pin Oak	2-2.5'cal
5	PLA	Platanus occidentalis	American Sycamore	2-2.5'cal
3	RM	Acer rubrum 'Red Sunset'	Red Sunset Maple	2-2.5'cal
5	RO	Quercus rubra	Red Oak	2-2.5'cal
6	SHAD	Amelanchier canadensis	Downy Shadblow	2-2.5'cal
1	TIL	Tilia americana	Basswood	2-2.5'cal
<b>EVERGREENS:</b>				
9	BF	Abies balsamea	Balsam Fir	7-8'
4	ERC	Juniperus virginiana	Eastern Red Cedar	6-7'
7	PAV	Thuja occidentalis 'Pyramidalis'	Pyramidal Arborvitae	6-7'
8	WF	Abies glauca	White Fir	7-8'
<b>SHRUBS:</b>				
25	BAY	Myrica pensylvanicum	Northern Bayberry	#3pot
29	CL	Clethra alnifolia 'Ruby Spice'	Ruby Spice Clethra	#3pot
8	FOTH	Fothergilla gardenii	Dwarf Fothergilla	#3pot
3	HML	Kalmia latifolia 'Hoffman's Pink'	Hoffman's Pink Mtn. Laurel	#3pot
65	IG	Ilex glabra 'Shamrock'	Shamrock Inkberry	2-2.5'
15	IV	Ilex verticillata	Winterberry	#3pot
39	RTD	Cornus alba 'Elegantissima'	Variegated Red Twig Dogwood	#3pot
5	STE	Spiraea tomentosa	Steeplebush	#3pot
14	VIA	Viburnum acerfolia	Maple Leaf Viburnum	3-4'
4	VID	Viburnum dentatum	Arrowwood	3-4'
<b>GRASSES/PERENNIALS:</b>				
10	ASR	Aymthotrichum novae-angliae	New England Aster	#1pot
20	CX	Carex pensylvanica	Pennsylvania Sedge	#1pot
10	LBS	Schizachyrium scoparium	Little Bluestem	#1pot
14	PAN	Panicum virgatum	Switchgrass	#2pot
10	RUD	Rudbeckia	Black Eyed Susan	#1pot
2	SHEN	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	#2pot

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW

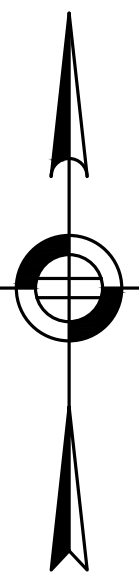
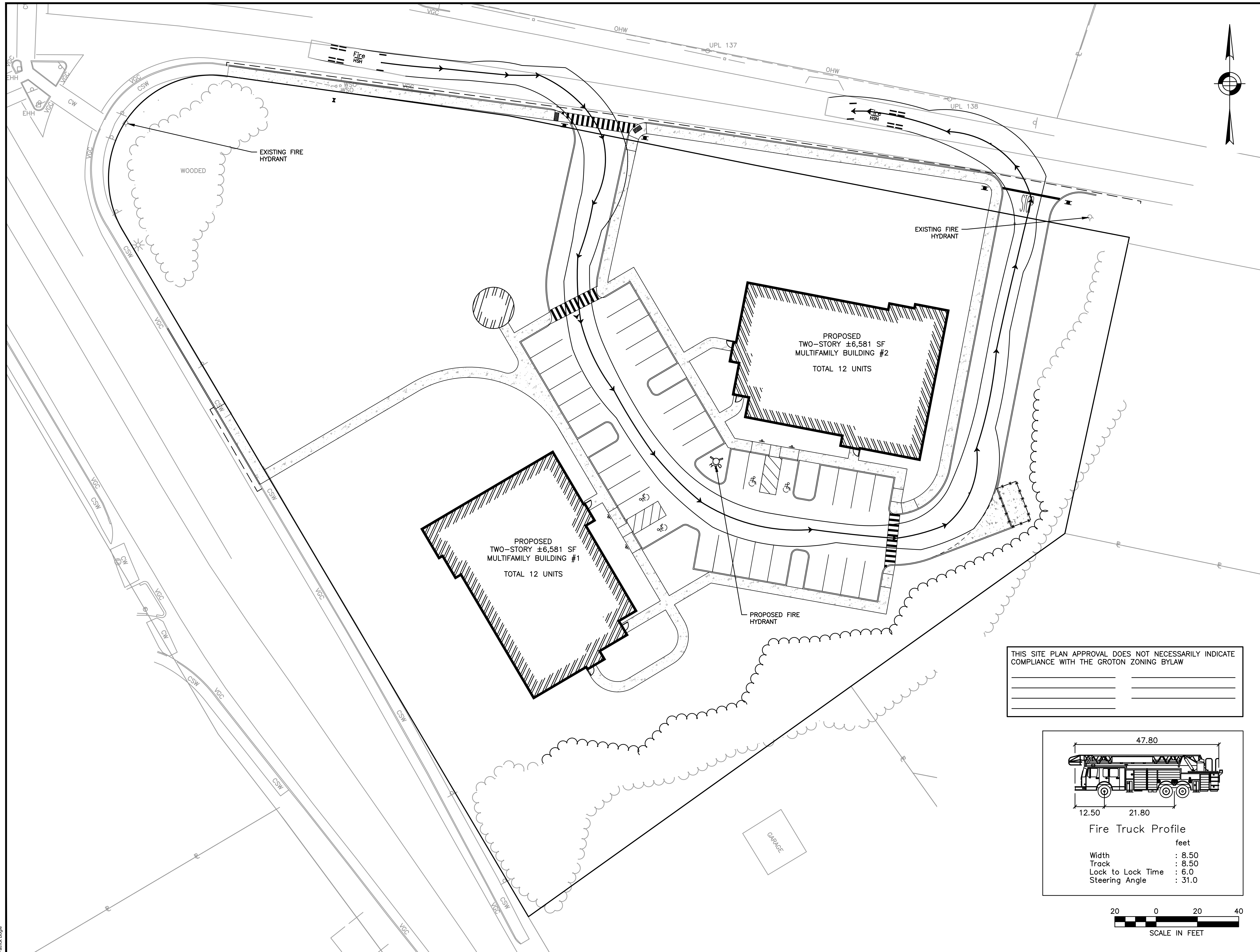
james k. emmanuel | associates  
 LANDSCAPE ARCHITECTS



22 Carlon Rd.  
 Marblehead, MA 01945  
 tel. (781) 622-7487

james@jamesemmanuel.com  
 www.jamesemmanuel.com





PREPARED FOR:  
 119 PARTNERS LLC  
 11 SUMMER STREET SUITE 8  
 CHELMSFORD, MA 01824

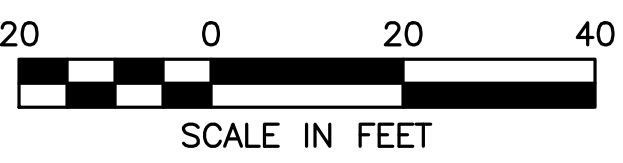
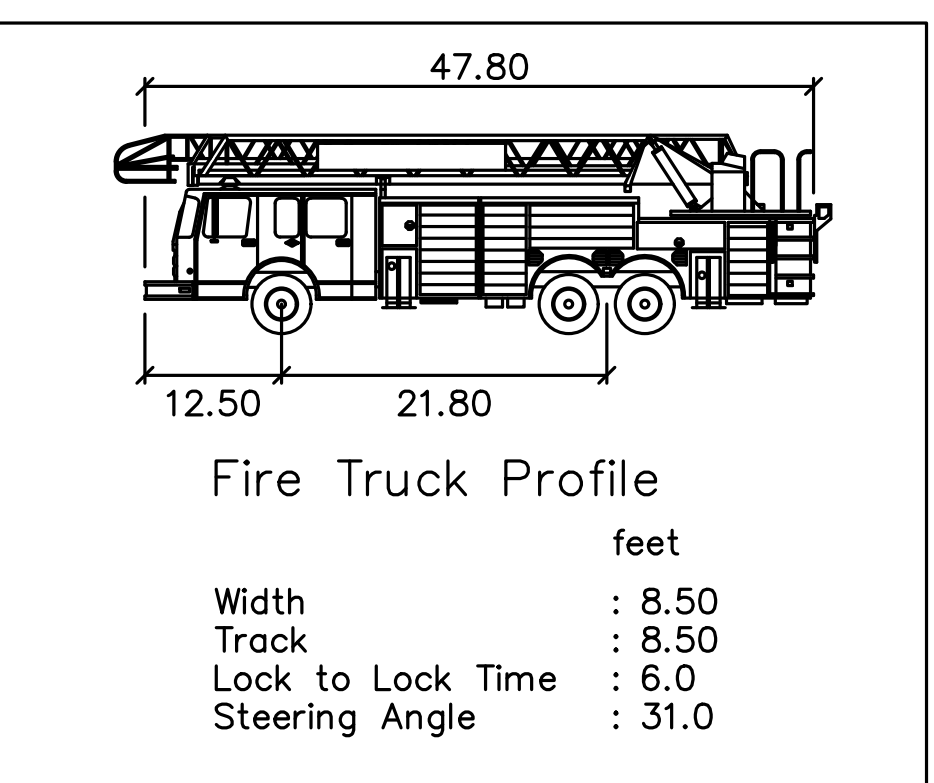
**PROPOSED AGE RESTRICTED HOUSING DEVELOPMENT**  
 797 BOSTON ROAD  
 GROTON, MA 01450

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW



THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW



SITE PLAN

SWEPT PATH ANALYSIS

DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

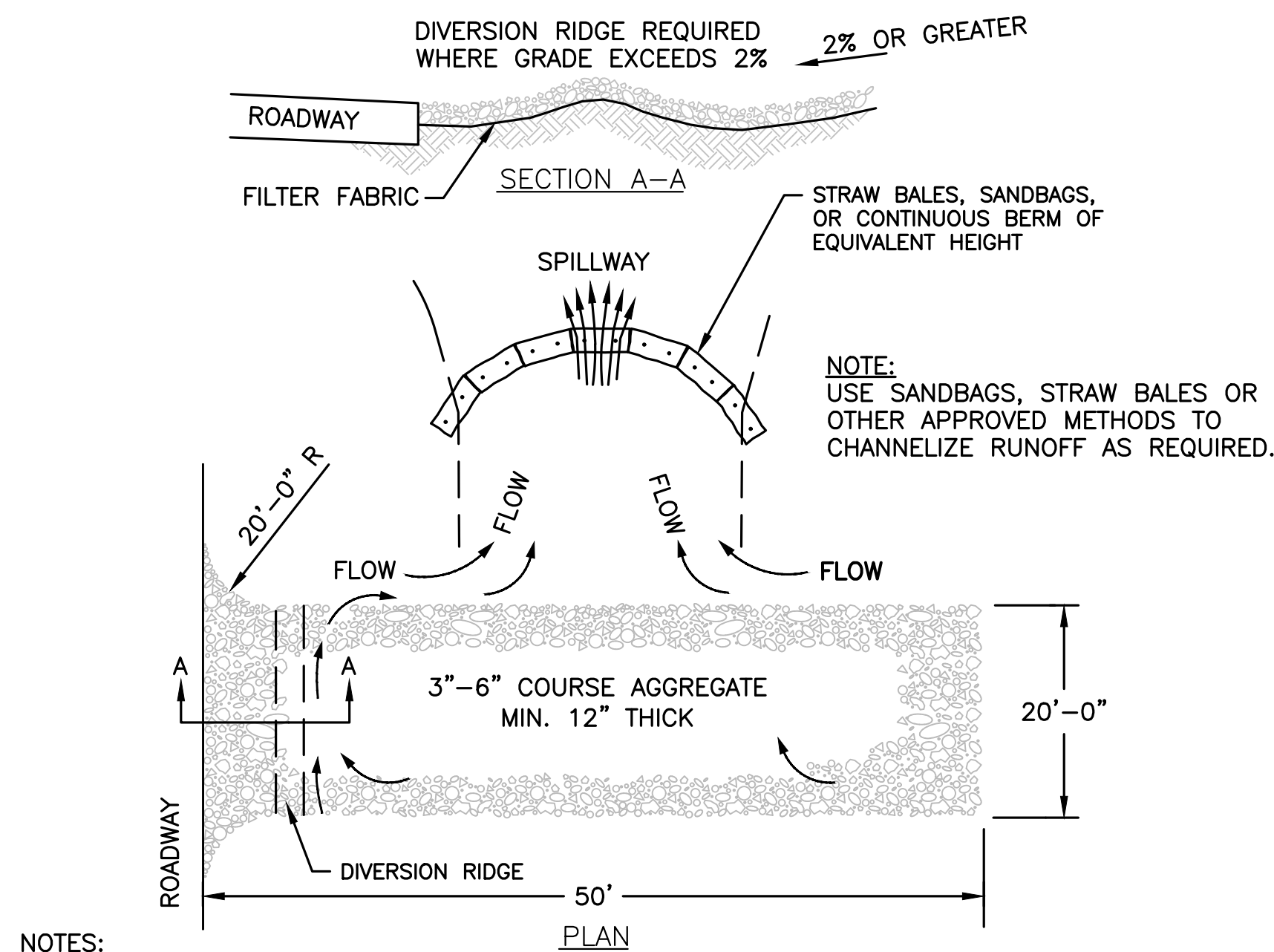
C.11

**EROSION AND SEDIMENT CONTROL NOTES**

1. 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.
2. ALL CATCH BASINS RECEIVING DRAINAGE FROM THE PROJECT SITE MUST BE PROVIDED WITH A CATCH BASIN FILTER.
3. STABILIZATION OF ALL RE-GRADED AND SOIL STOCKPILE AREAS MUST BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
4. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL DEVICES MUST BE PROPERLY REMOVED AND DISPOSED. ALL DAMAGED CONTROLS MUST BE REMOVED AND REPLACED.
5. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. 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 TOWN AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING WIND 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.
7. 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 STABILIZED SOILS WITHIN 14 DAYS OF THE LAST DISTURBANCE.
8. IF A DISTURBED AREA WILL BE EXPOSED FOR GREATER THAN ONE YEAR, PERMANENT GRASSES OR OTHER APPROVED COVER MUST BE INSTALLED.
9. 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 TOWN TO MITIGATE ANY EMERGENCY CONDITION.
10. 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.
11. DEMOLITION AND CONSTRUCTION DEBRIS MUST BE PROPERLY CONTAINED AND DISPOSED OF.
12. 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**

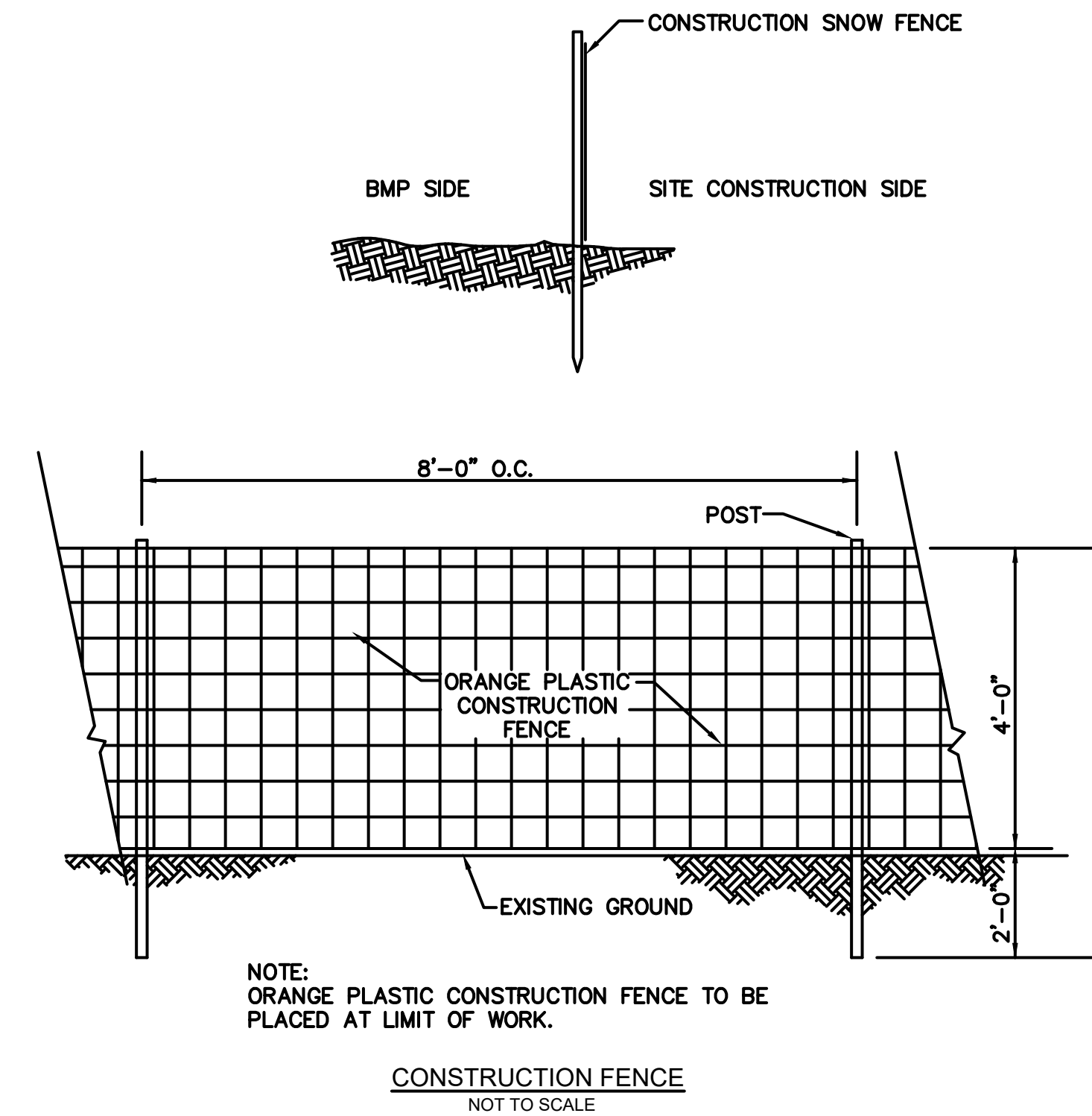
1. INSTALL EROSION AND SEDIMENT CONTROLS PRIOR TO STARTING ANY EARTHWORKS ACTIVITY.
2. INSTALL CONSTRUCTION ENTRANCE.
3. BEGIN CLEARING AND GRUBBING.
4. CONSTRUCT STORMWATER MANAGEMENT SYSTEM.
5. INSTALL SITE FURNISHINGS.
6. INSTALL PAVEMENT AND CURBS.
7. INSTALL LANDSCAPING.
8. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.



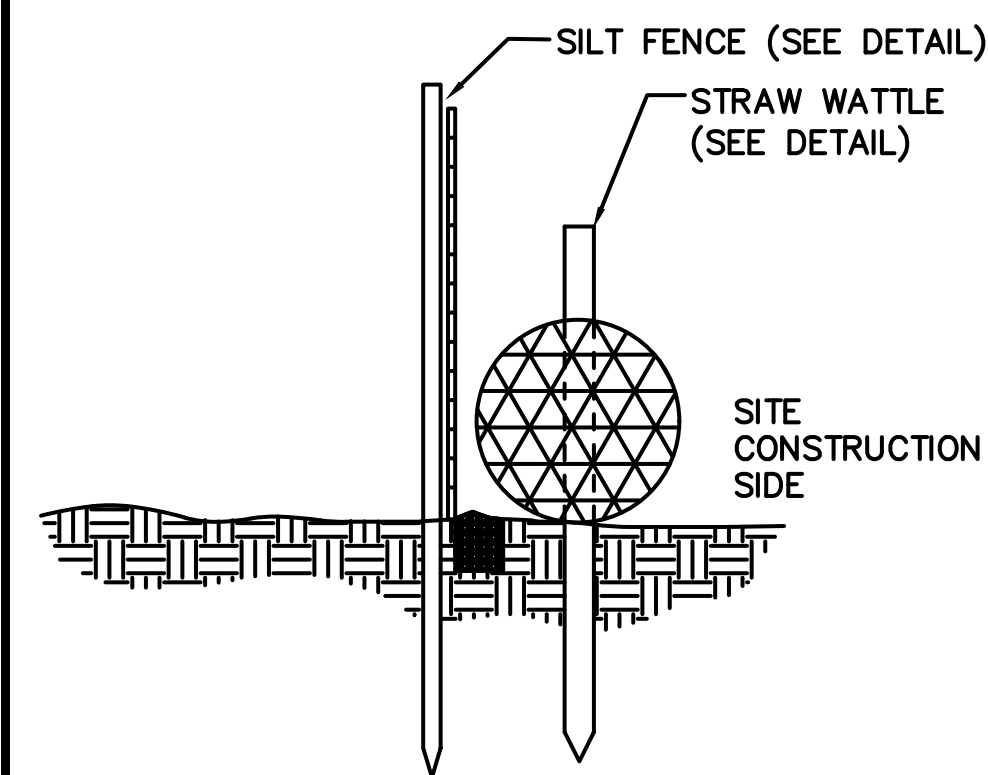
**NOTES:**

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE APPLIED WHERE NECESSARY TO KEEP PUBLIC WAYS FREE OF SEDIMENT INCLUDING STAGING AREAS

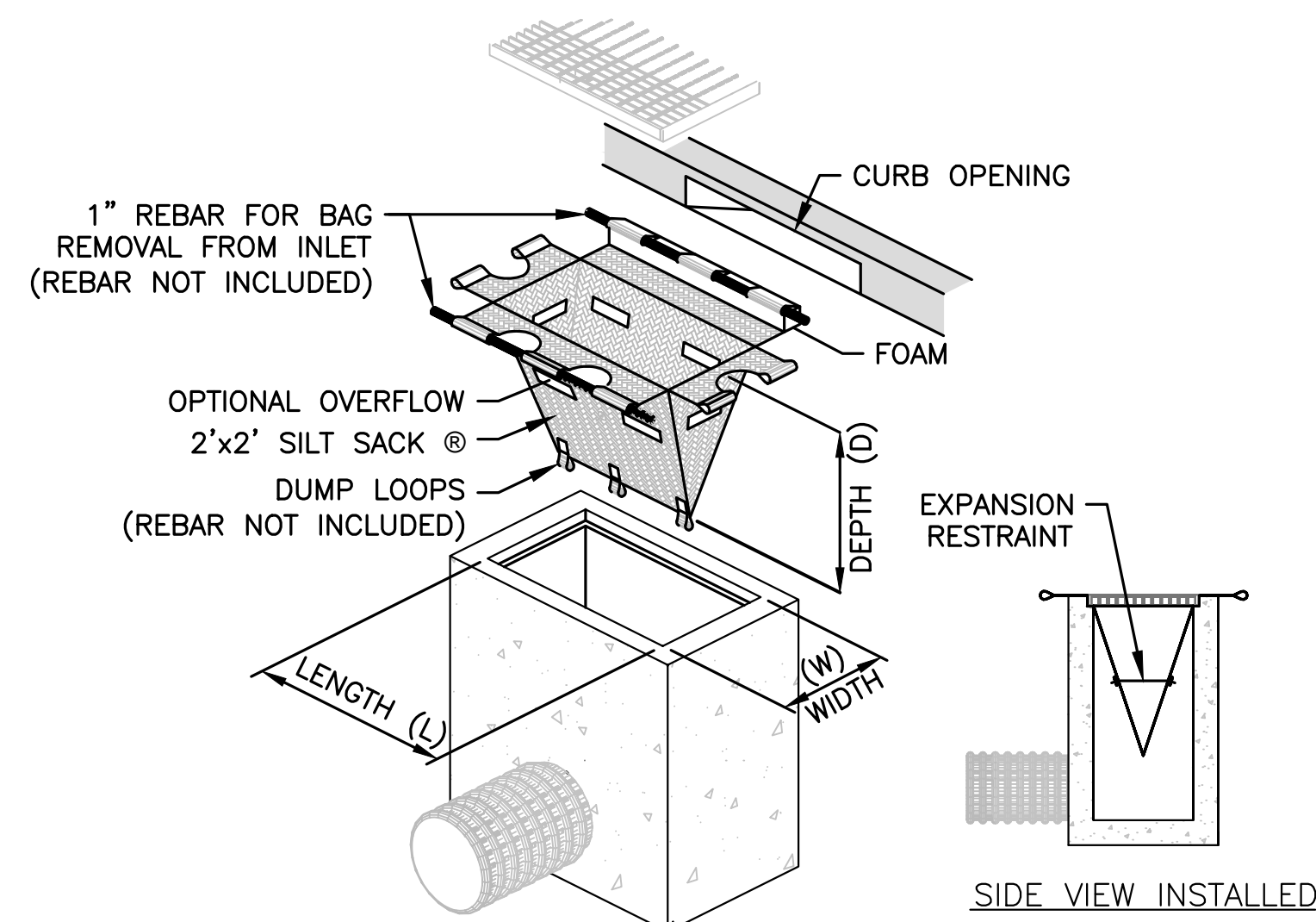
**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



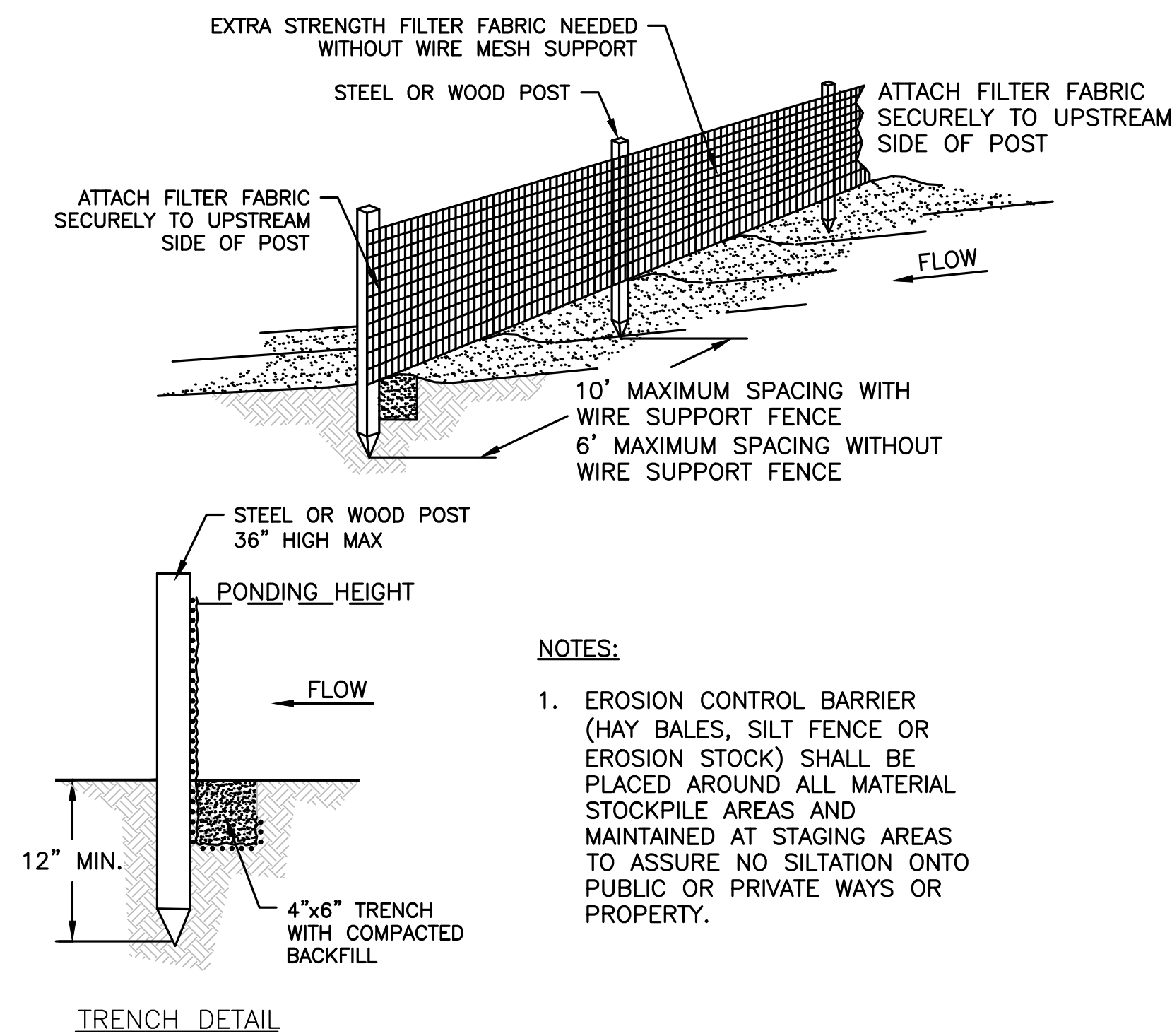
**CONSTRUCTION FENCE**  
NOT TO SCALE



**STRAW WATTLE WITH SILT FENCE**  
**BACKING DETAIL**  
NOT TO SCALE



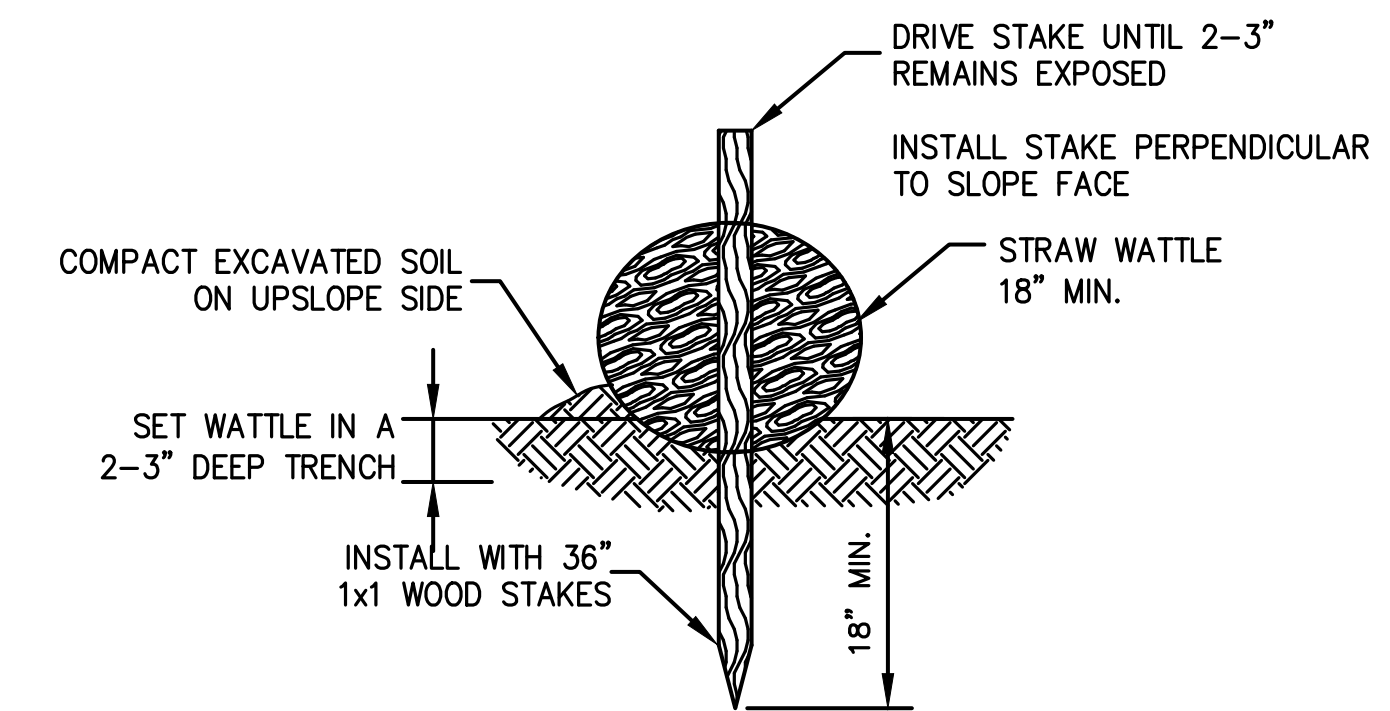
**TEMPORARY INLET PROTECTION**  
NOT TO SCALE



**SILT FENCE DETAIL**  
NOT TO SCALE

**NOTES:**

1. EROSION CONTROL BARRIER (HAY BALES, SILT FENCE OR EROSION STOCK) SHALL BE PLACED AROUND ALL MATERIAL STOCKPILE AREAS AND MAINTAINED AT STAGING AREAS TO ASSURE NO SILTATION ONTO PUBLIC OR PRIVATE WAYS OR PROPERTY.



**STRAW WATTLE DETAIL**  
NOT TO SCALE

**NOTES:**

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 36" (45.7-61 CM) STAKES EVERY 3-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW

**PREPARED FOR:**

119 PARTNERS LLC  
11 SUMMER STREET SUITE 8  
CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED  
HOUSING DEVELOPMENT**  
797 BOSTON ROAD  
GROTON, MA 01450

**REVISIONS:**

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW



**SITE PLAN**

**DETAIL SHEET**  
**1 OF 7**

DATE: 2/16/2024

PROJECT NUMBER: 17267

DESIGNED BY: NC

DRAWN BY: NC

CHECKED BY: KE

C.12

SHEET 12 OF 18

PREPARED FOR:  
 119 PARTNERS LLC  
 11 SUMMER STREET SUITE 8  
 CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED HOUSING DEVELOPMENT**  
 797 BOSTON ROAD  
 GROTON, MA 01450

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW

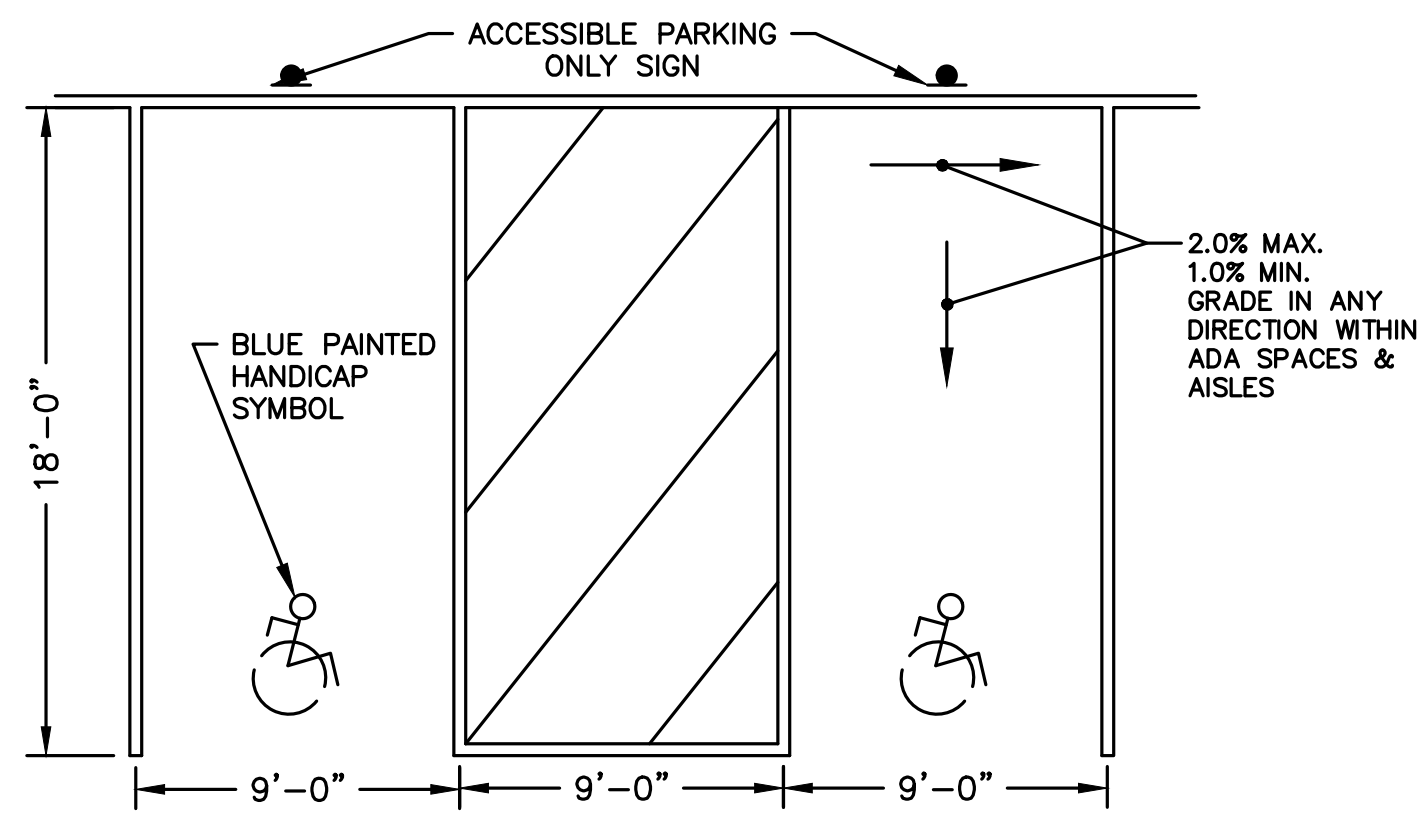


SITE PLAN

DETAIL SHEET  
 2 OF 7

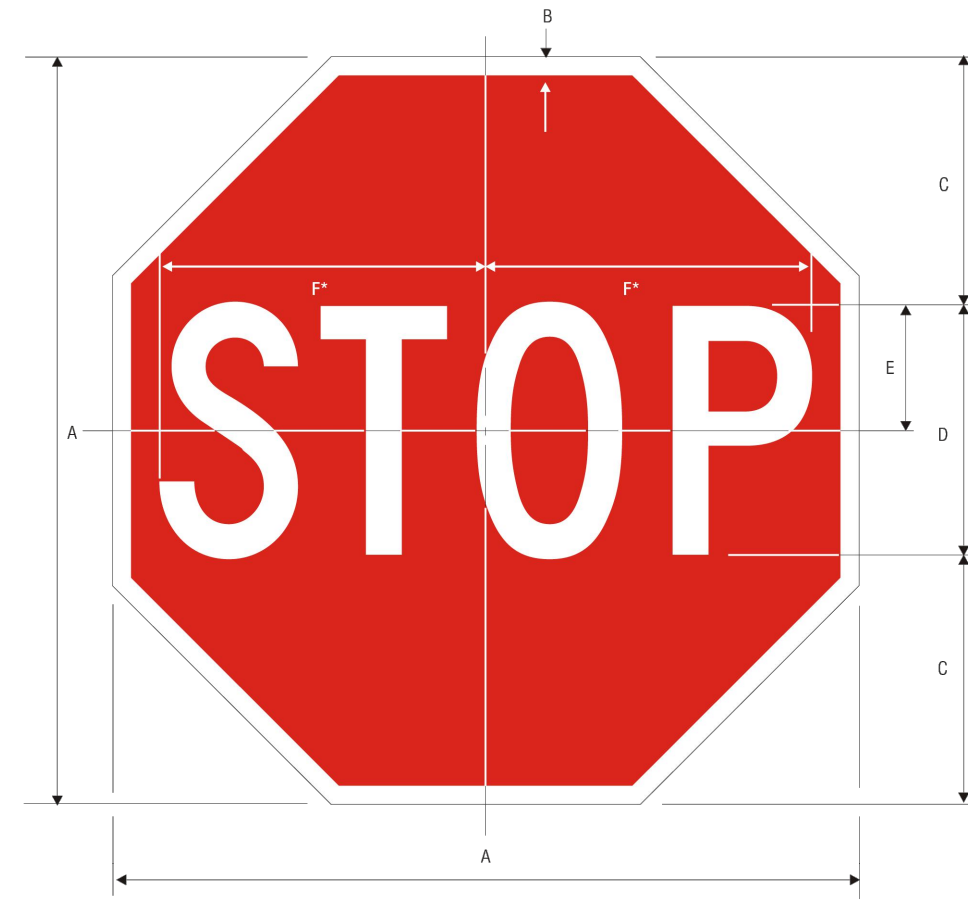
DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

C.13



NOTE:  
 \* GRADING WITHIN THE HANDICAP PARKING SPACE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.  
 \* BOLLARD-EMBEDDED ACCESSIBLE PARKING ONLY SIGN

**TYPICAL HANDICAP PARKING SPACE**  
 NOT TO SCALE

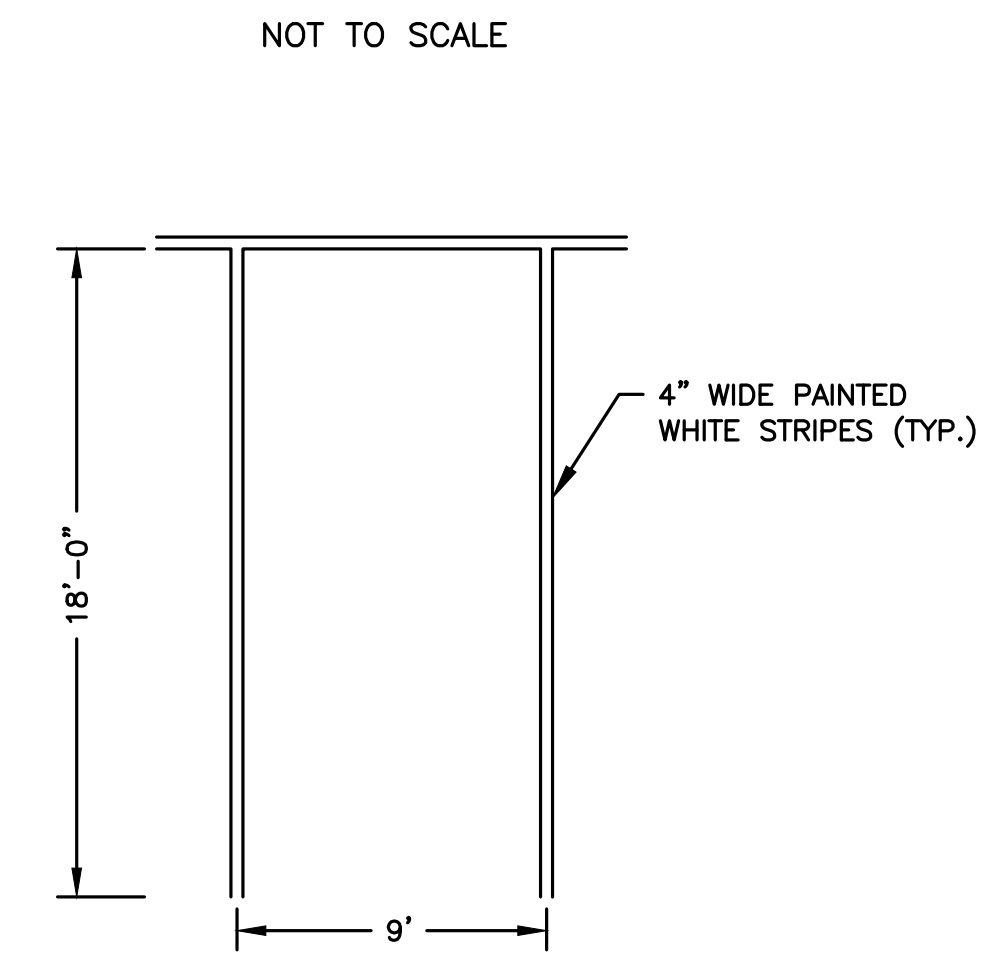


R1-1  
 STOP  
 \*Reduce spacing 40%

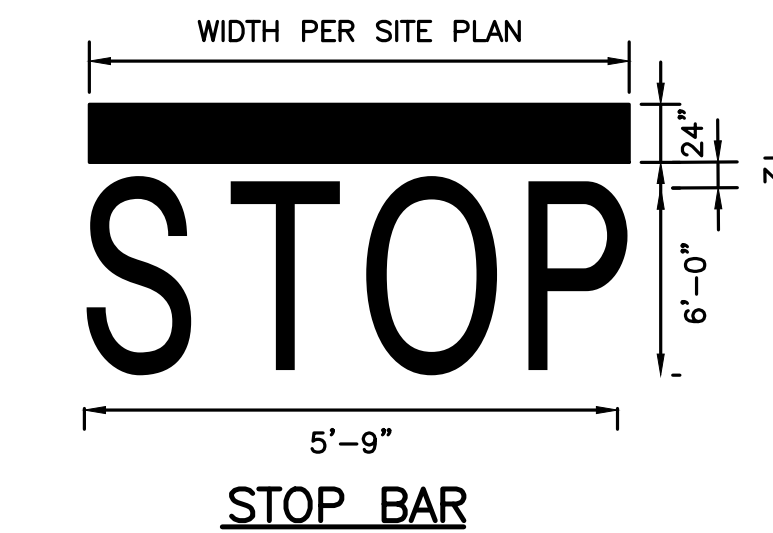
A	B	C	D	E	F
18	.375	6	6 C	3	7.75
24	.625	8	8 C	4	10
30	.75	10	10 C	5	12.5
36	.875	12	12 C	6	15
48	1.25	16	16 C	8	20

COLORS: LEGEND — WHITE (RETROREFLECTIVE)  
 BACKGROUND — RED (RETROREFLECTIVE)  
 1-1

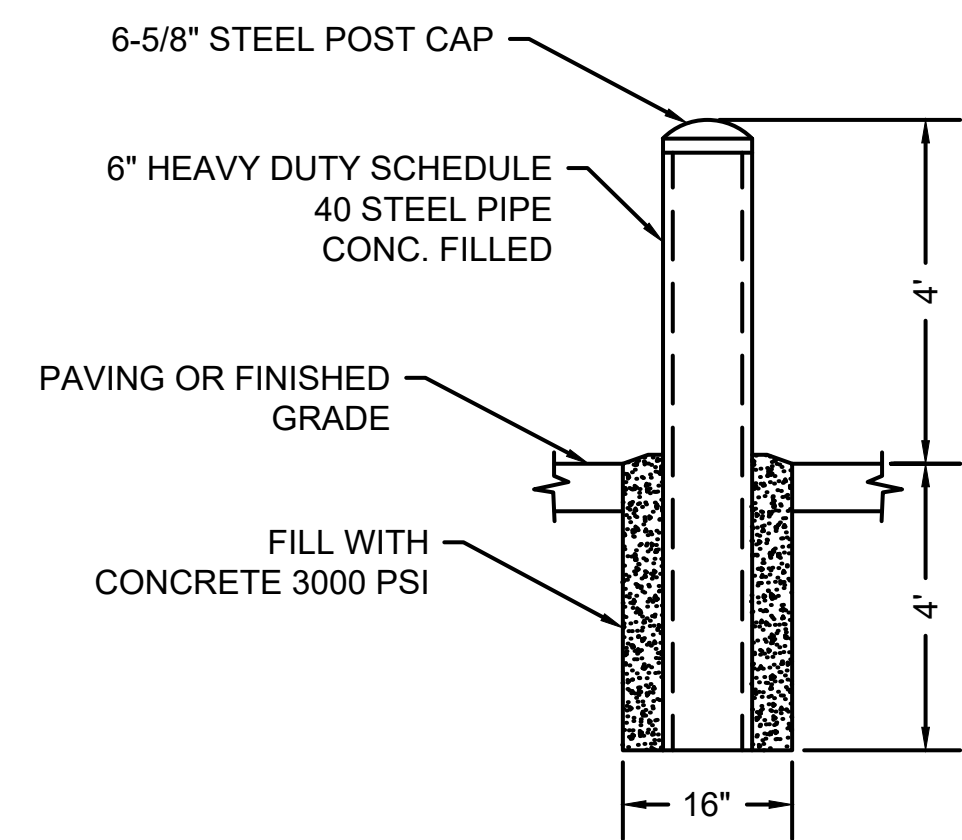
**STOP SIGN**  
 NOT TO SCALE



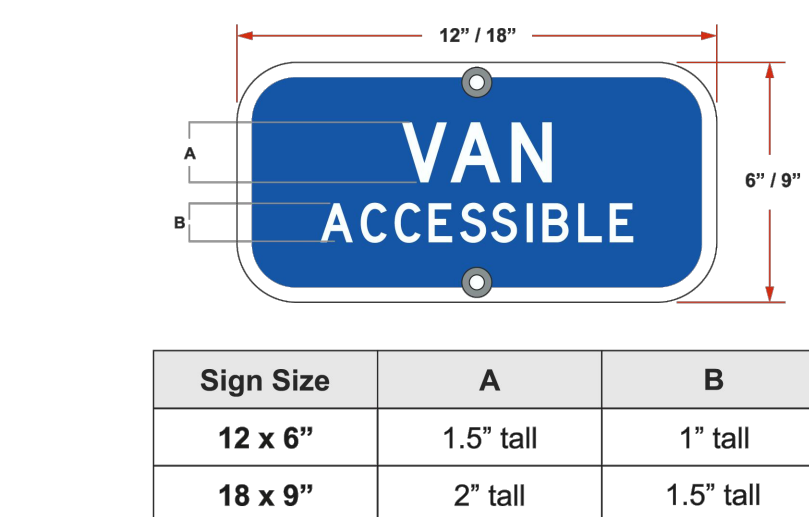
**TYPICAL PARKING SPACE**  
 NOT TO SCALE



**STOP BAR**

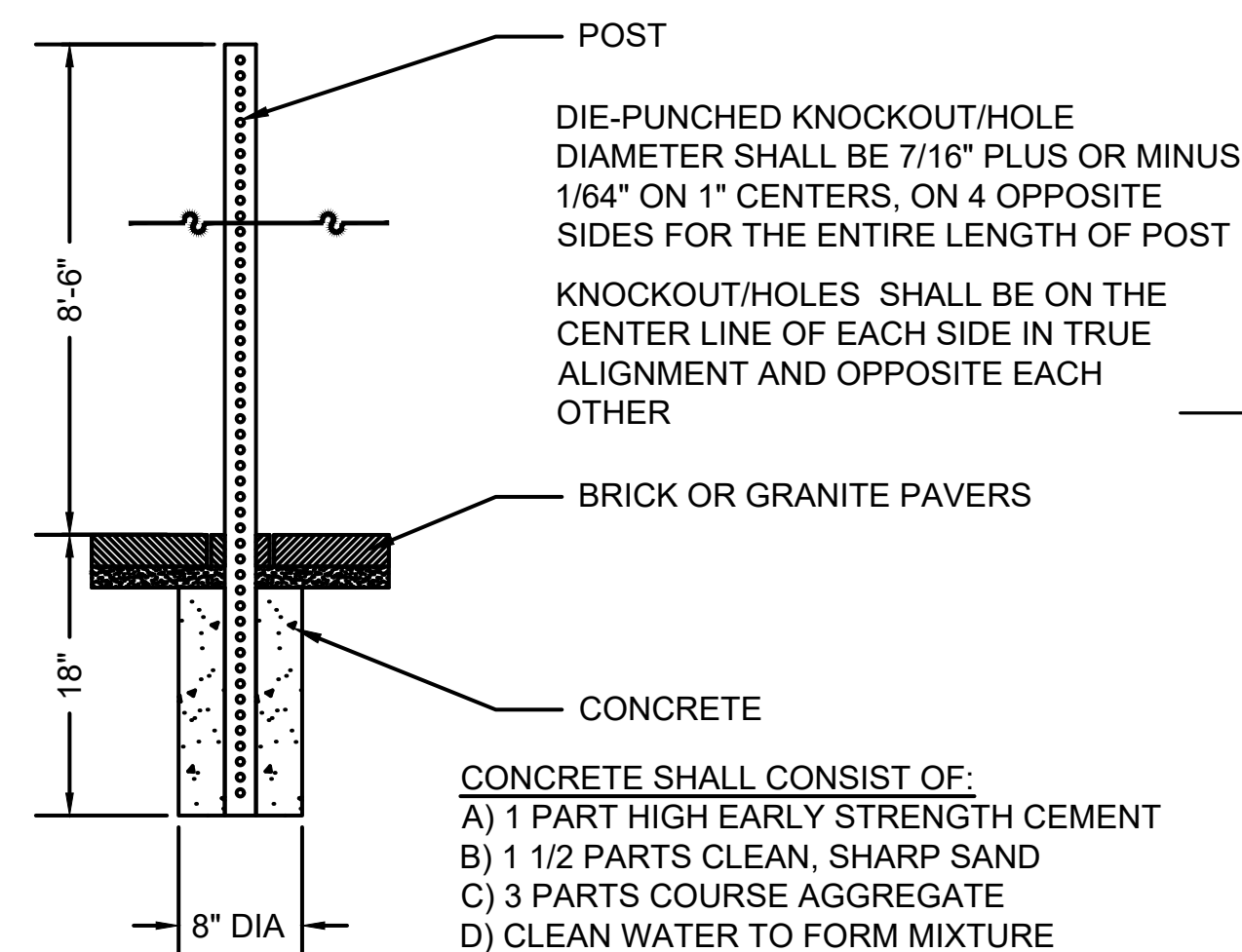


**PIPE BOLLARD DETAIL**  
 NOT TO SCALE

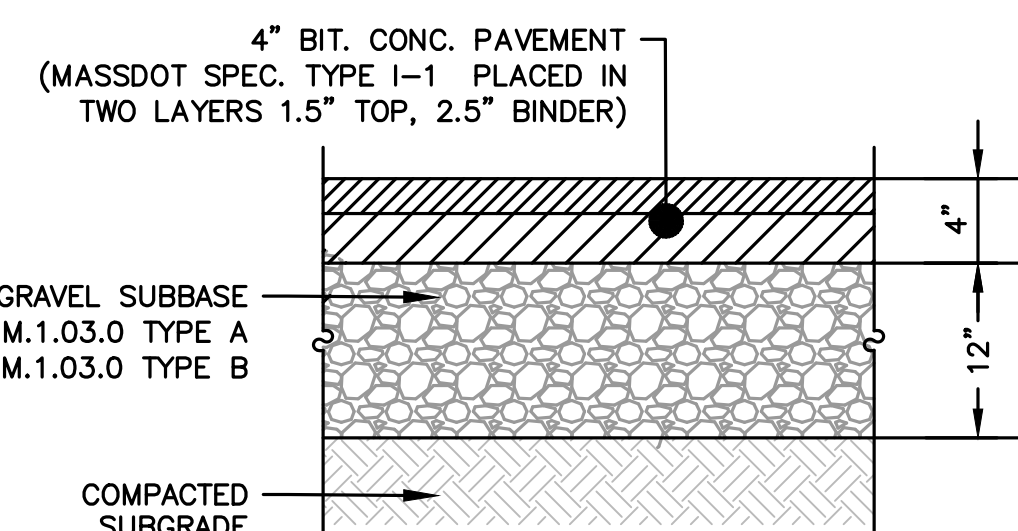
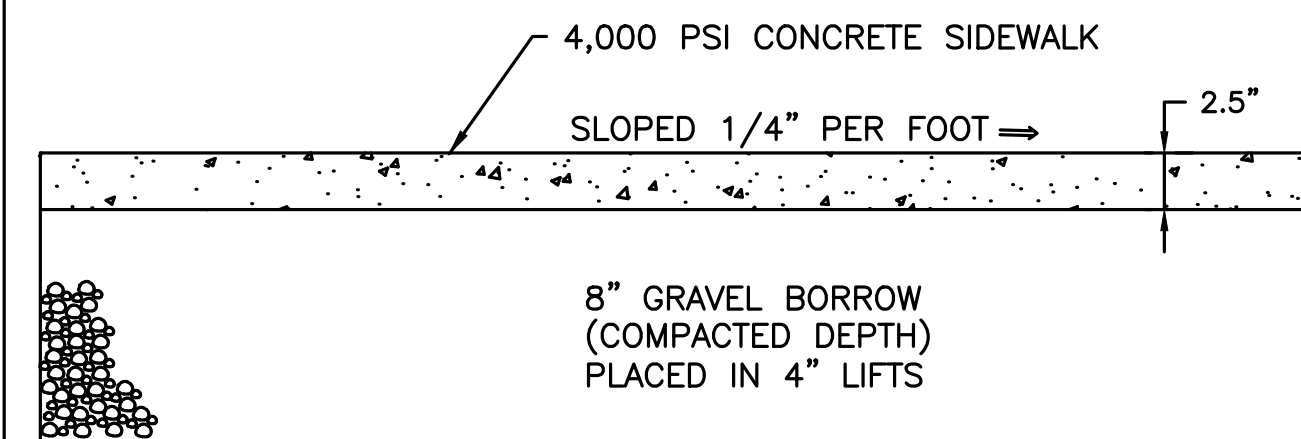


Sign Size	A	B
12 x 6"	1.5" tall	1" tall
18 x 9"	2" tall	1.5" tall

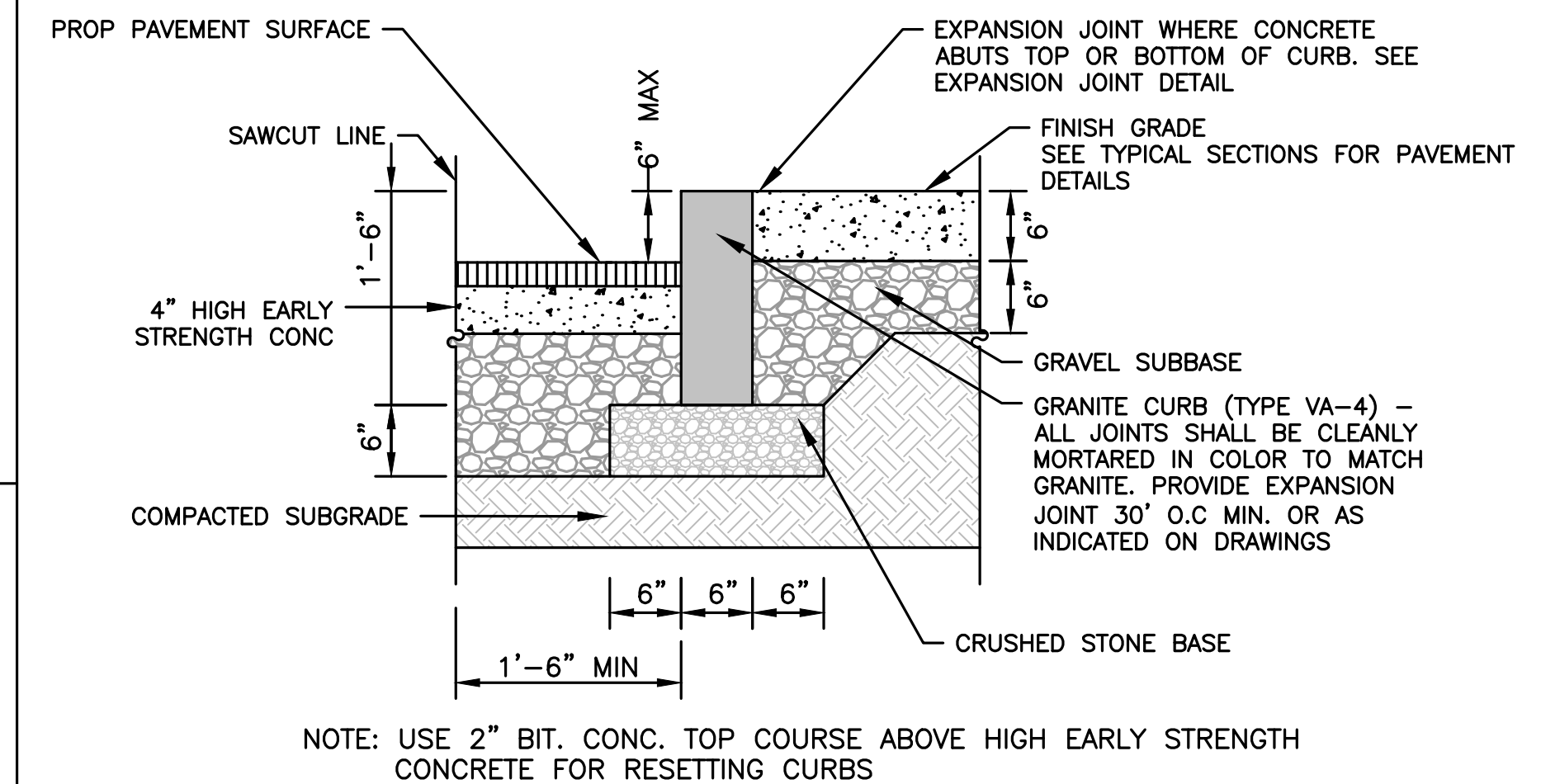
**HANDICAP & VAN ACCESSIBLE SIGNS DETAIL**  
 NOT TO SCALE



**10'-2" SQUARE SIGN POST**  
 NOT TO SCALE

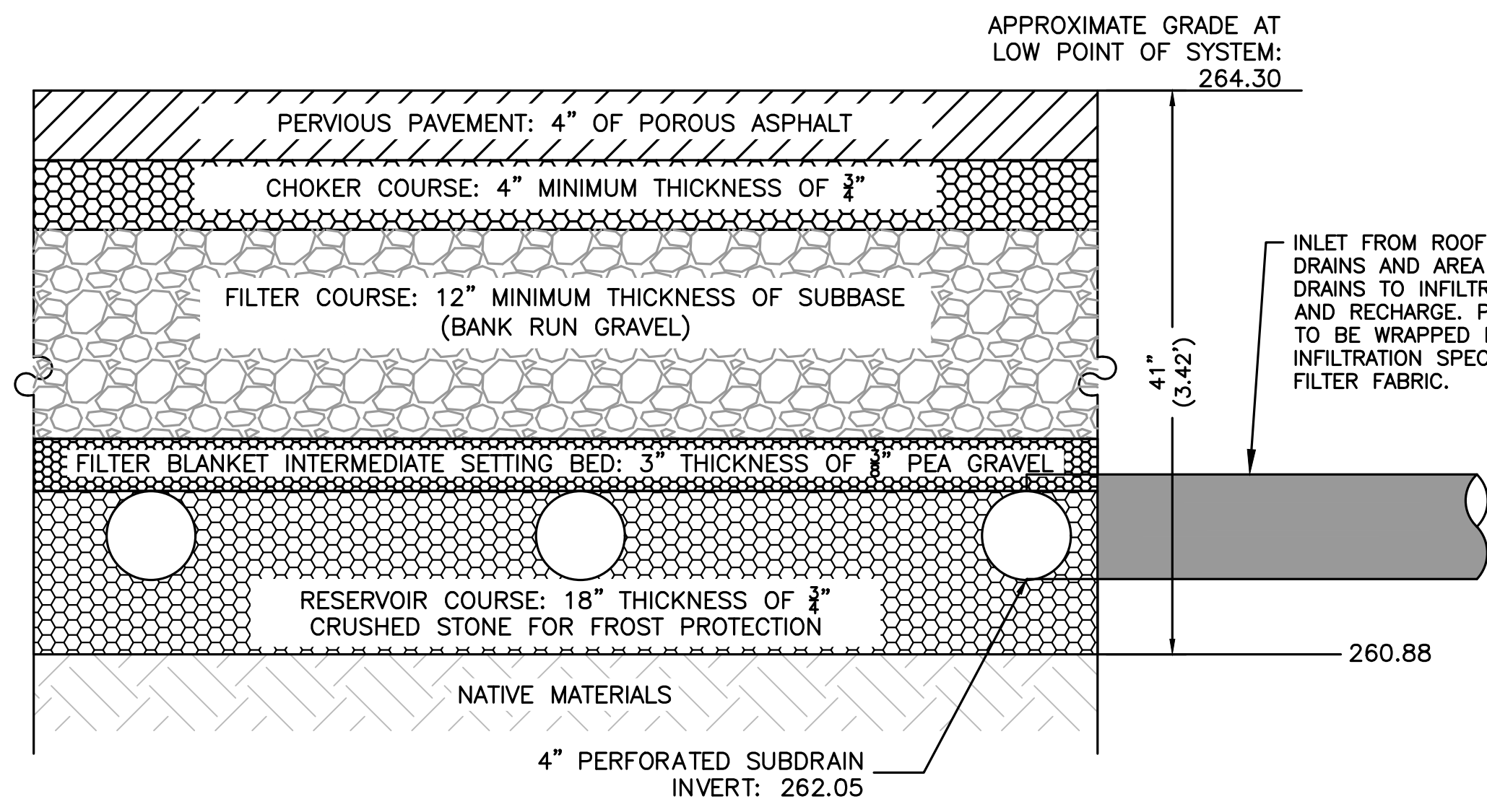


**FULL DEPTH DRIVEWAY AND PARKING LOT SECTION DETAIL**  
 NOT TO SCALE

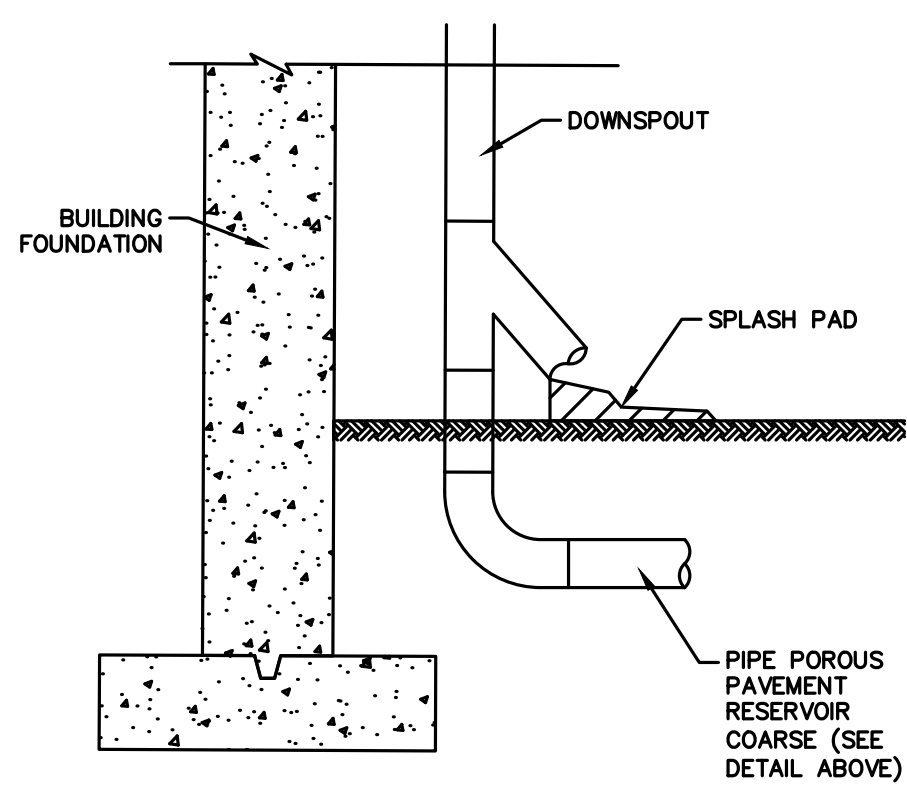


**VERTICAL GRANITE CURB**  
 NOT TO SCALE

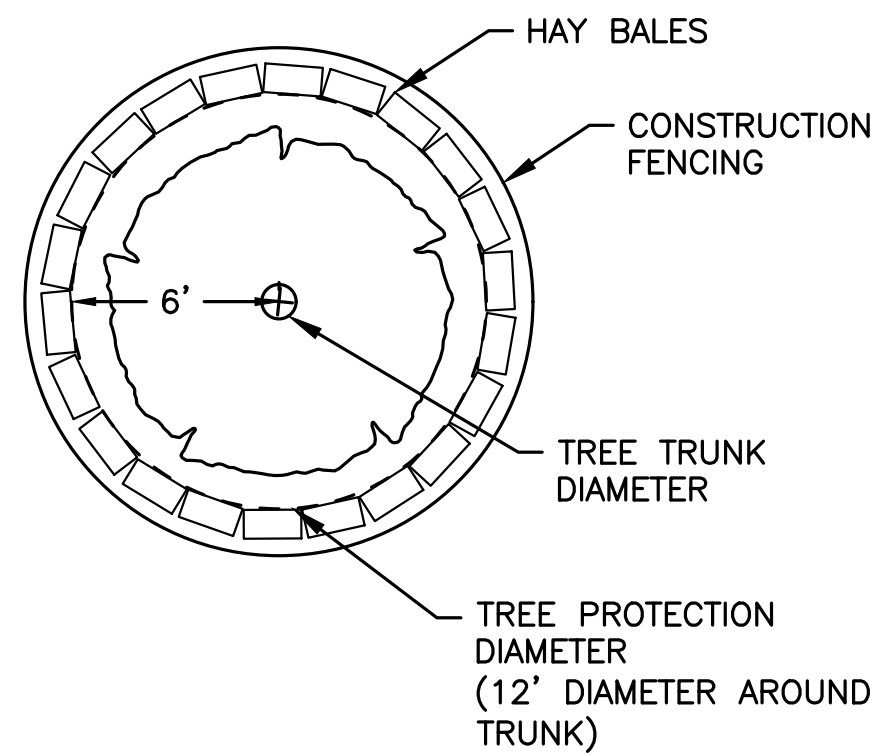
THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW



**PERMEABLE PAVEMENT SECTION DETAIL**  
NOT TO SCALE

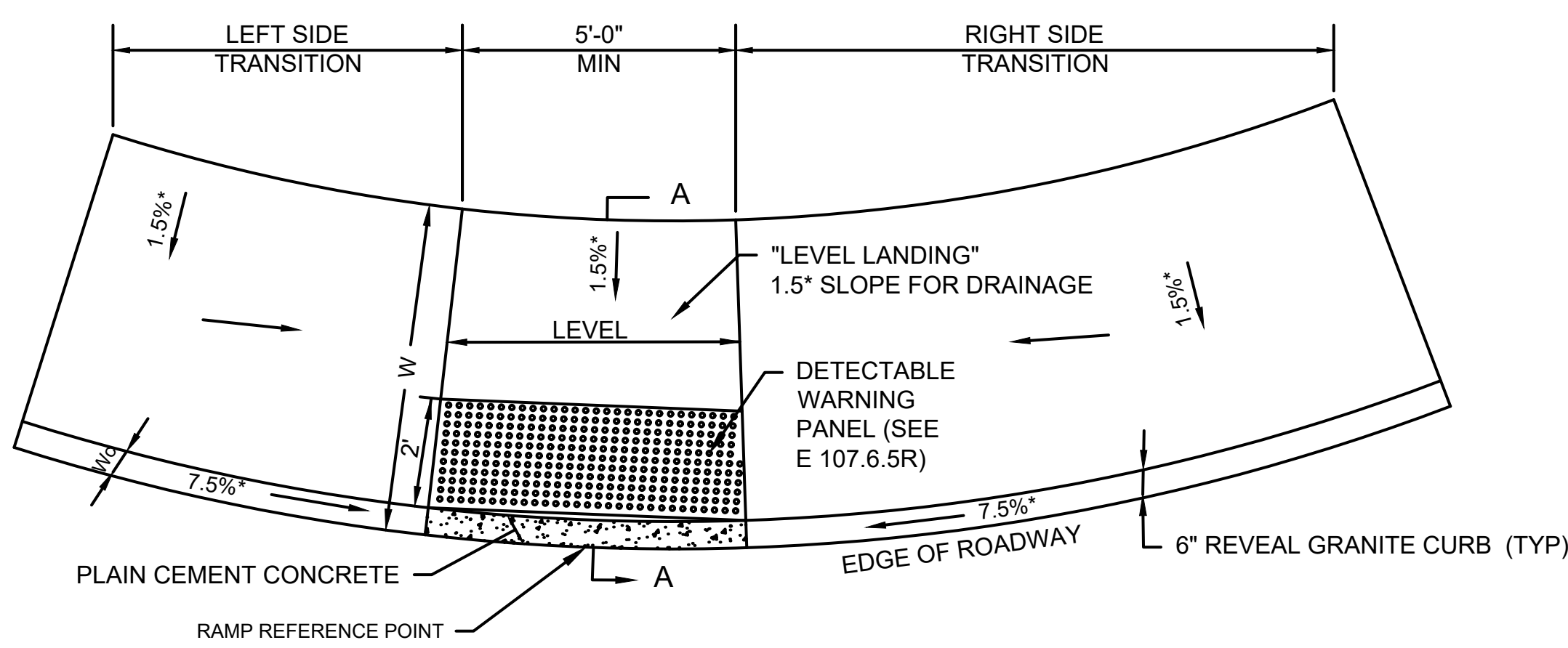


**ROOF LEADER CONNECTION DETAIL**  
NOT TO SCALE



NOTES:  
1. TREE PROTECTION DIAMETER TO CONSIST OF HAY BALES AND CONSTRUCTION FENCING AROUND PERIMETER OF TRUNK.

**TREE PROTECTION DETAIL**  
NOT TO SCALE



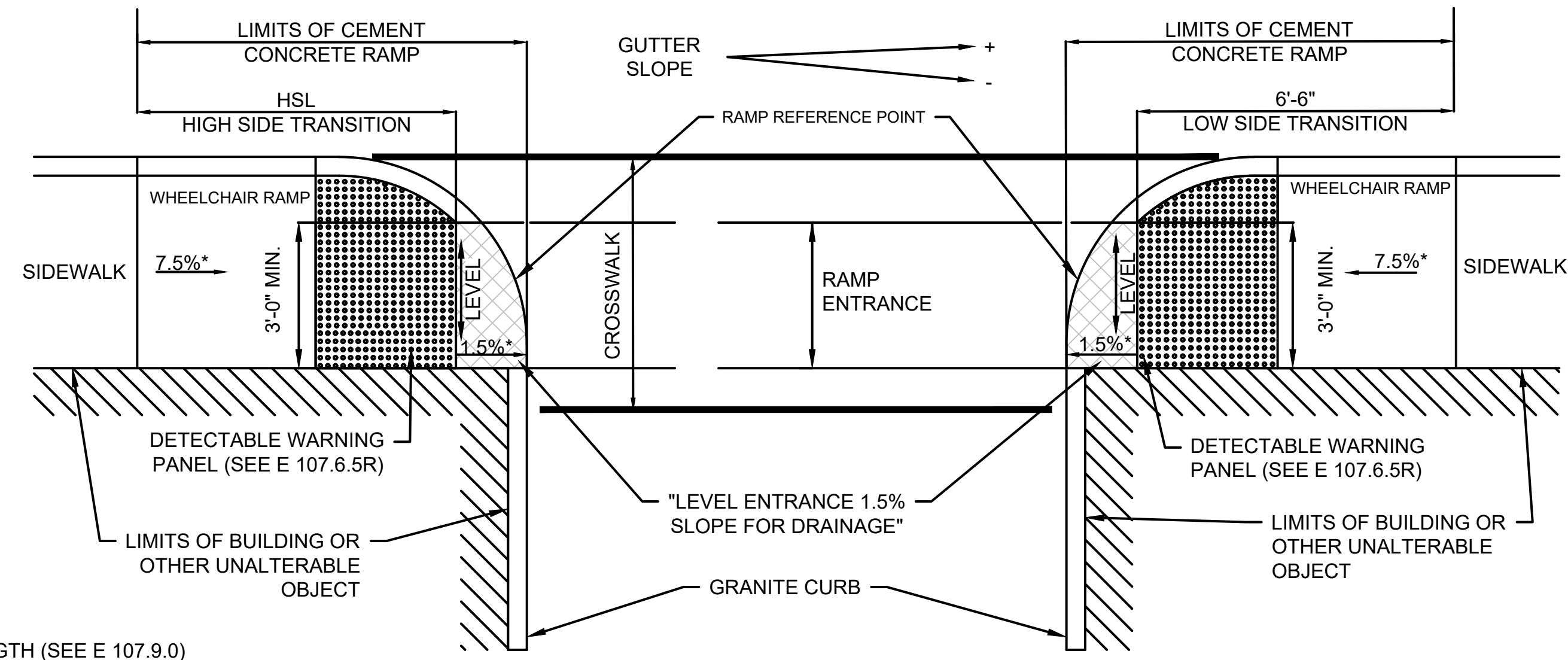
LEGEND:  
HSL = HIGH SIDE TRANSITION (SEE E 107.9.0)  
W = SIDEWALK WIDTH  
Wc = WIDTH OF CURB (6\"/>

**WHEELCHAIR RAMPS ON NARROW CURVED SIDEWALK WITH DETECTABLE WARNING PANEL**  
NOT TO SCALE

NOTES:  
DETECTABLE WARNING PANEL LOCATED NOT LESS THAN 6\"/>

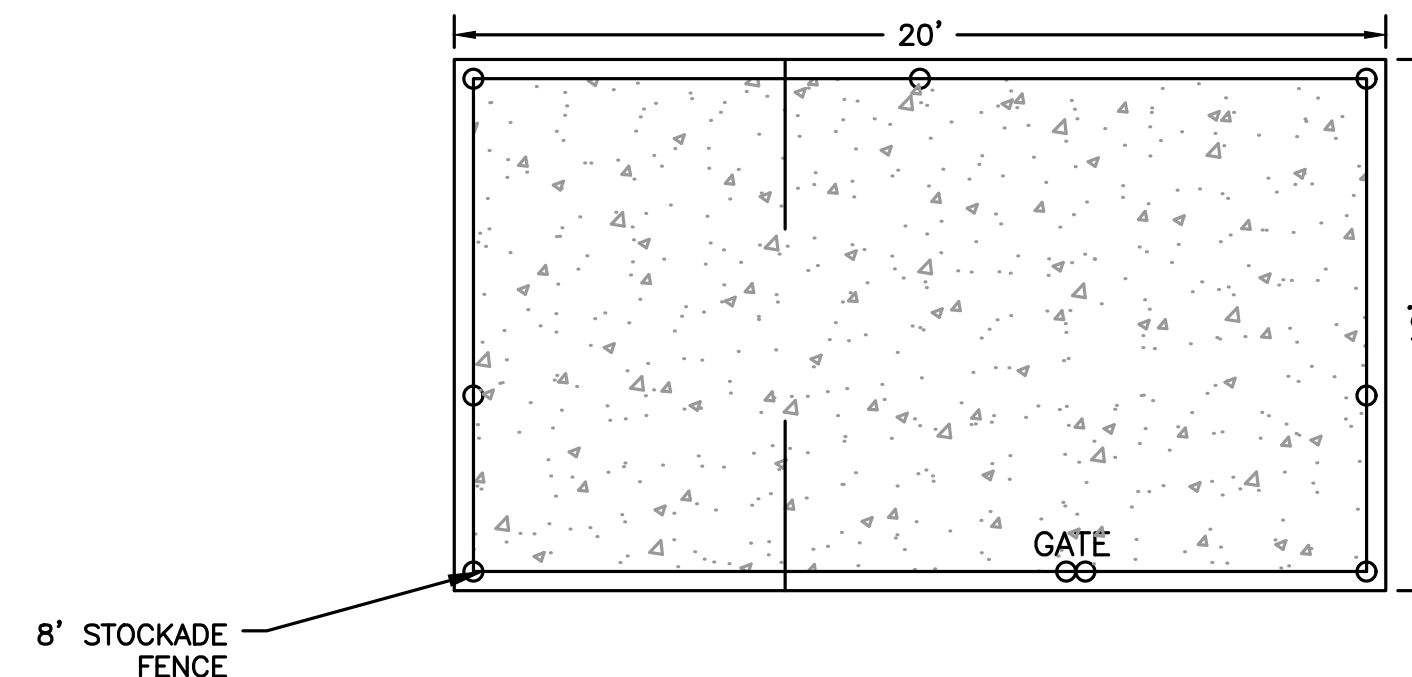
FOR DETAILS OF TRUNCATED DOMES SEE DRAWING E 107.6.5.

ROADWAY, GUTTER, AND FIRST 6\"/>

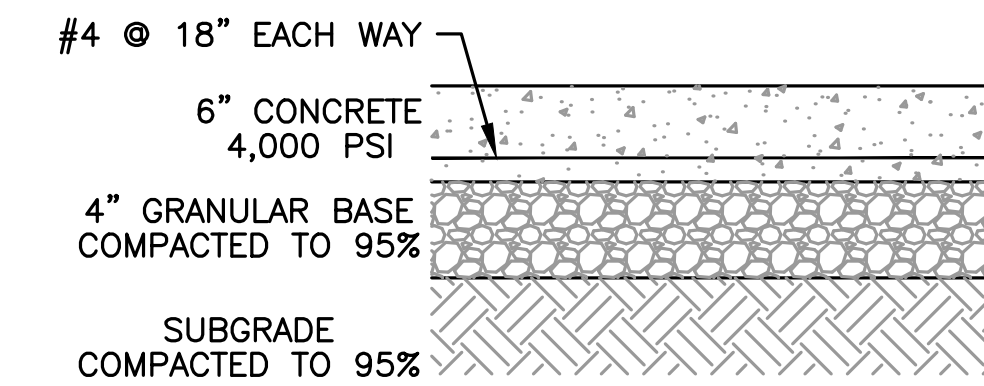


**WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL**  
NOT TO SCALE

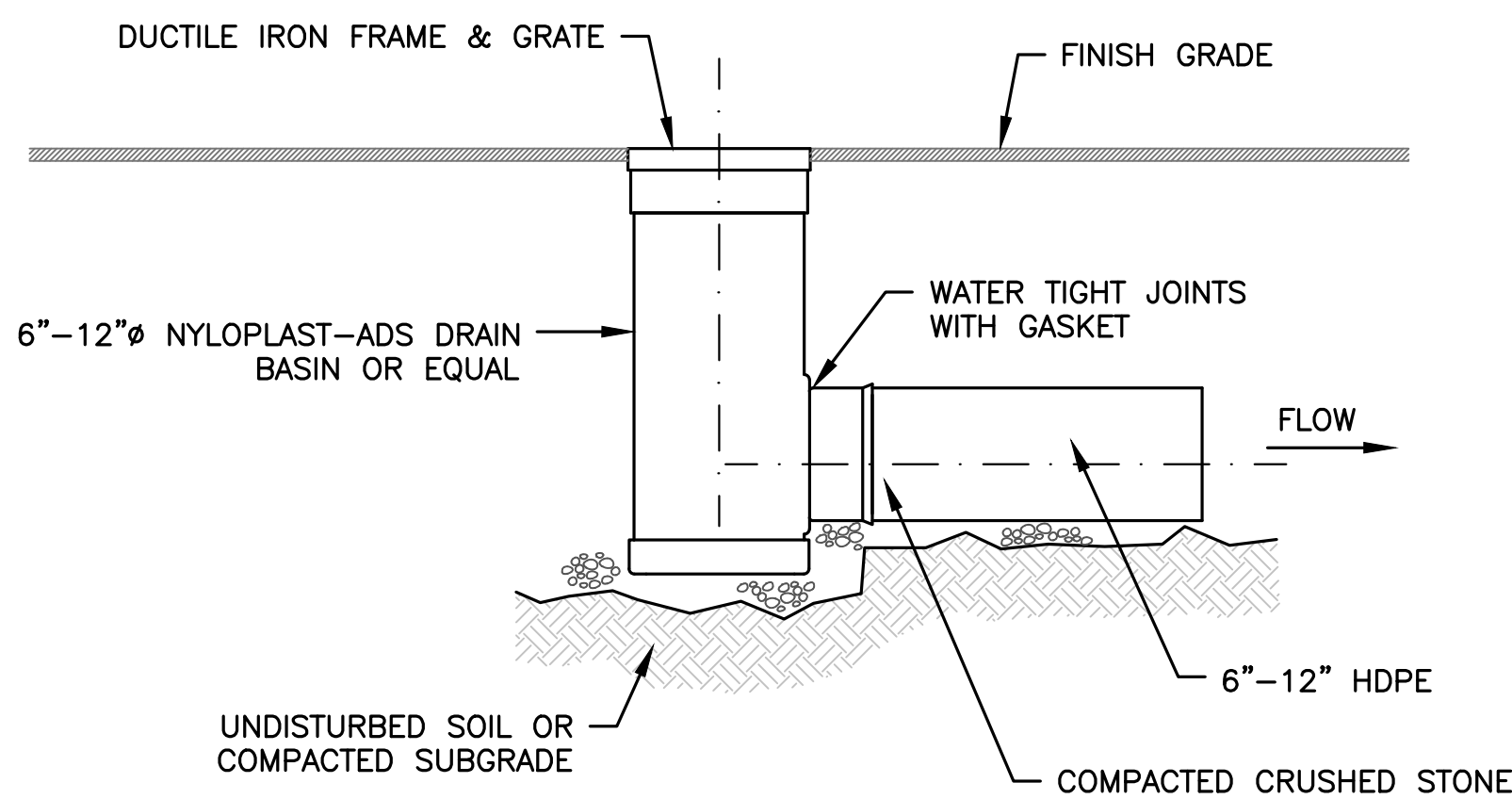
LEGEND:  
HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)  
\* = TOLERANCE FOR CONSTRUCTION ±0.5%



**DUMPSTER PAD**  
SCALE: N.T.S



NOTE: SEE LANDSCAPE AND ARCHITECTURAL PLANS FOR FINAL DETAILS



**AREA DRAIN**  
NOT TO SCALE

THIS SITE PLAN APPROVAL DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE GROTON ZONING BYLAW

**HOWARD STEIN HUDSON**  
114 Turnpike Road, Suite 2C  
Chelmsford, MA 01824  
www.hshassoc.com

PREPARED FOR:  
119 PARTNERS LLC  
11 SUMMER STREET SUITE 8  
CHELMSFORD, MA 01824

**PROPOSED AGE RESTRICTED HOUSING DEVELOPMENT**  
797 BOSTON ROAD  
GROTON, MA 01450

REVISIONS:			
NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW



SITE PLAN

DETAIL SHEET  
3 OF 7

DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

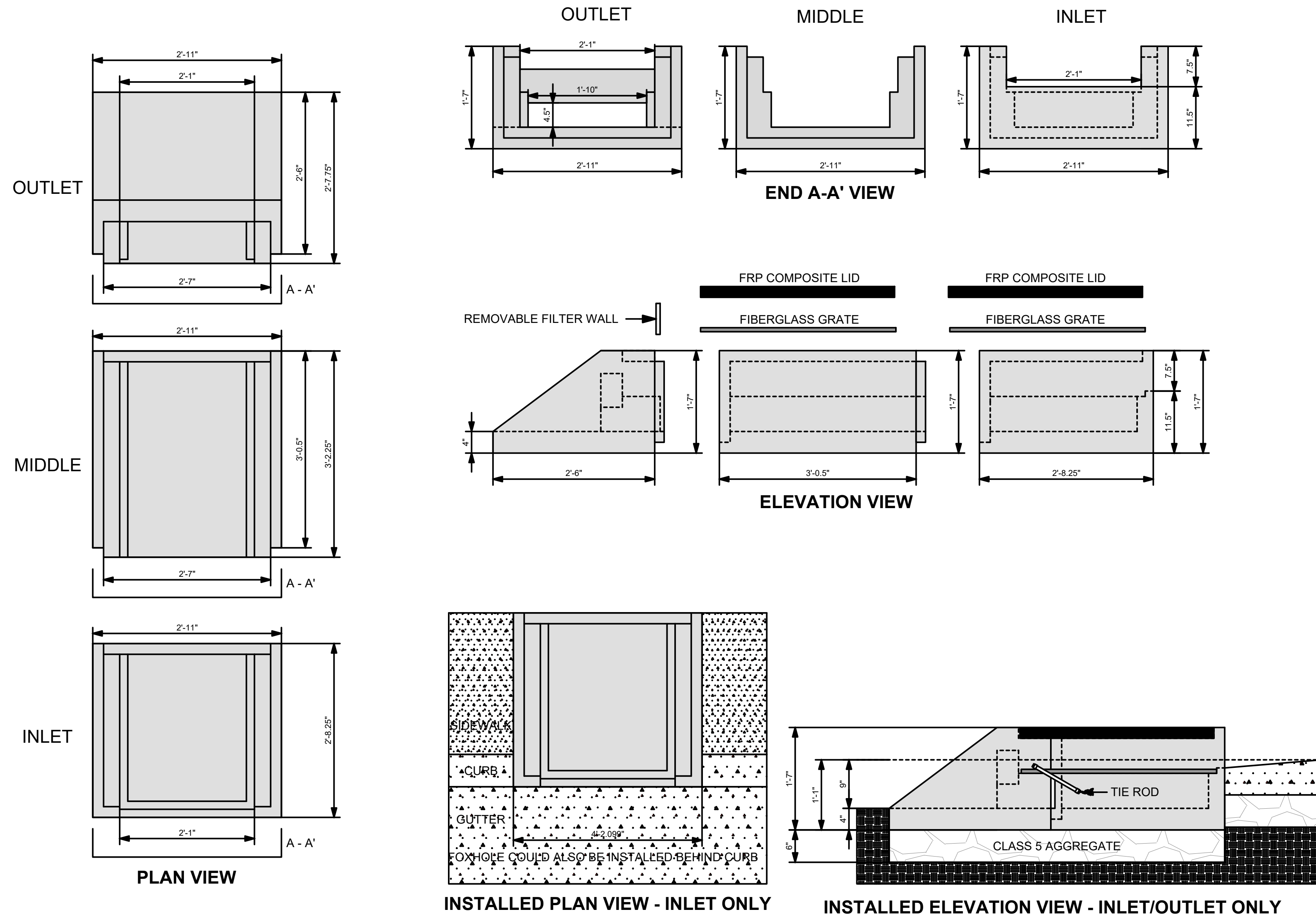
C.14

**SPECIFICATIONS**

1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURES (INLET 875 LBS, MIDDLE 965 LBS, AND OUTLET 730 LBS). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE AIR ENTRAINED (4% TO 8% BY VOLUME). MANUFACTURED AND DESIGNED TO ASTM C858.
2. 2-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.
3. FIBERGLASS GRATE (11 LBS/PIECE).
4. FRP COMPOSITE LID (36 LBS/PIECE) WITH CONCENTRATED LOAD CAPACITY OF 3,400 LBS.

**INSTALLATION NOTES**

1. INSTALL A CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS. EXCAVATE 1' 7" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 9" PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN FOXHOLE BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1' 1" BELOW THE GUTTERLINE ELEVATION. THE TOP OF THE RAIN GUARDIAN FOXHOLE INLET POINT WILL BE 7-1/2" ABOVE THE TOP OF THE CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN FOXHOLE.
2. SET RAIN GUARDIAN FOXHOLE INLET FIRST, FOLLOWED BY MIDDLE SECTION(S), AND FINALLY THE OUTLET ON THE PREPARED CLASS 5 BASE. POSITION RAIN GUARDIAN FOXHOLE OUTLET PIECE SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL.
3. SECURE MODULAR FOXHOLE PIECES AT EACH JOINT USING PROVIDED GALVANIZED TIE RODS.
4. INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN FOXHOLE AND CONCRETE INLET BEFORE POURING INLET.
5. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC FACING THE RAIN GUARDIAN FOXHOLE INLET.



**RAIN GUARDIAN FOXHOLE DETAIL**  
SCALE=NTS

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GROTON, MA 01450

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SITE PLAN

DETAIL SHEET  
4 OF 7

DATE:	2/16/2024
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DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

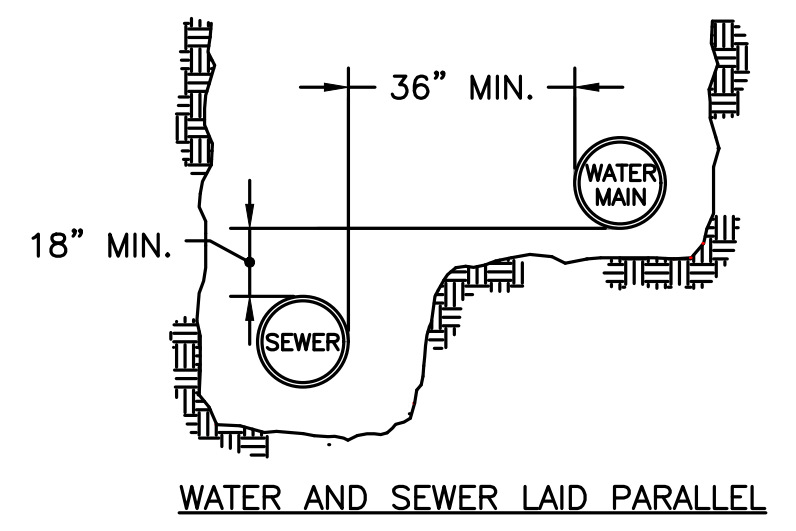
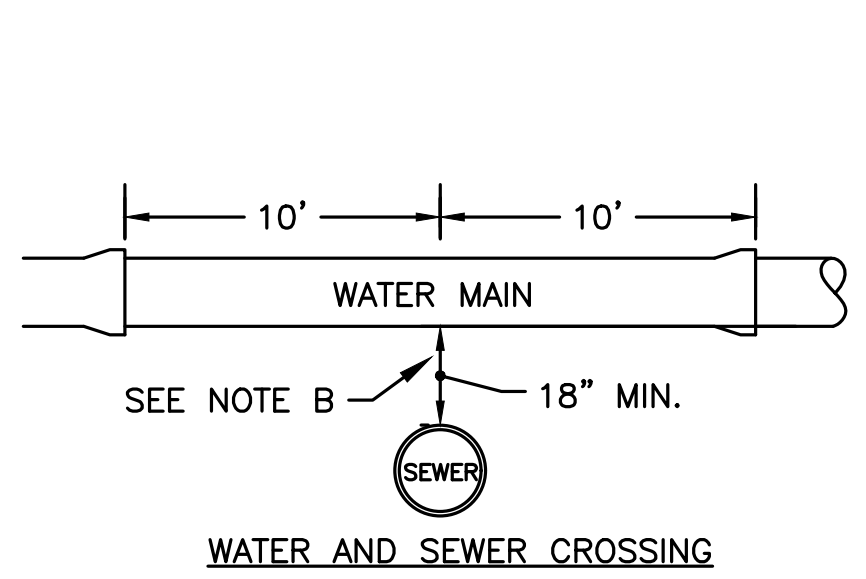
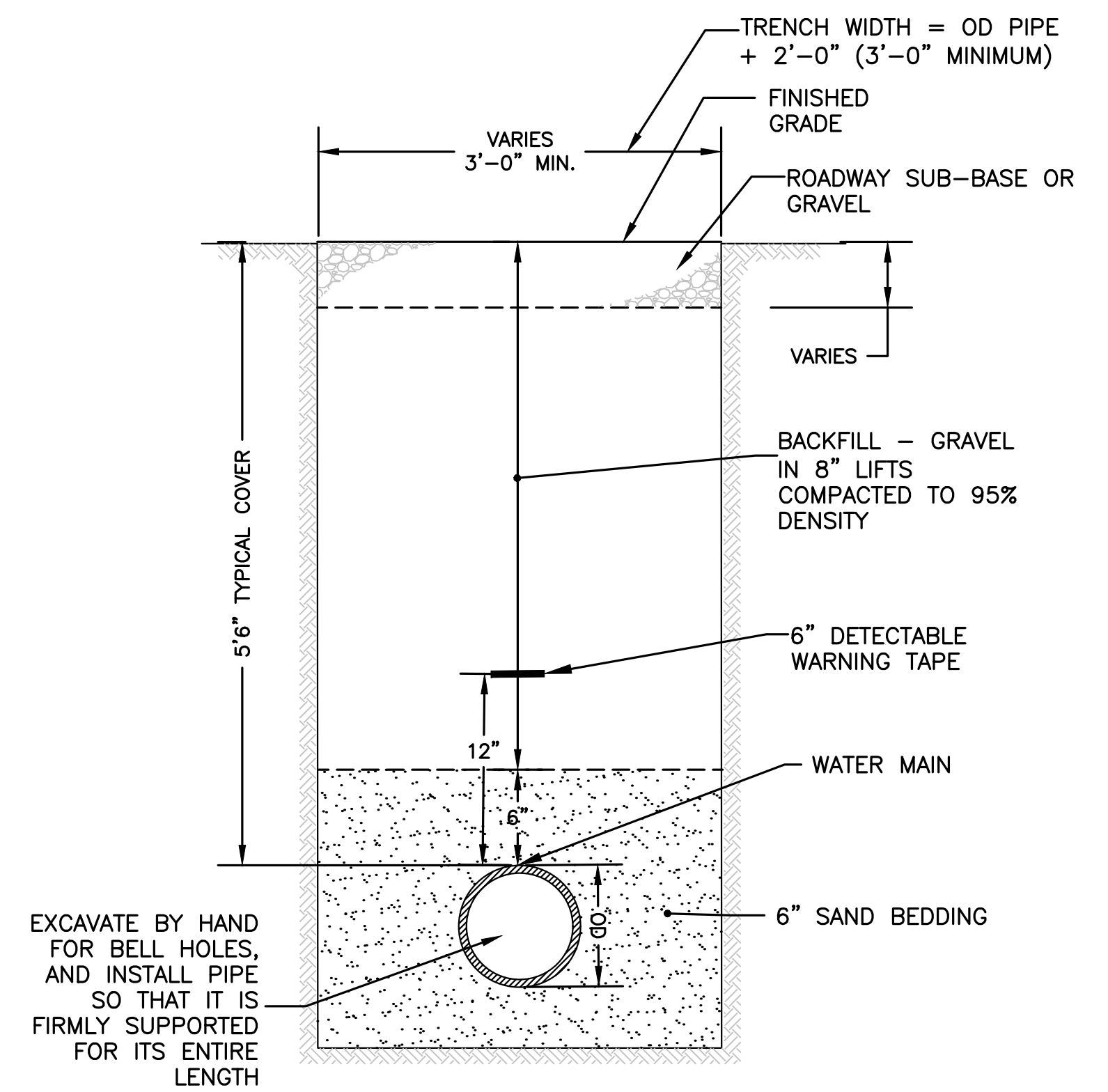
C.15

4/17/2024, 11:17:07 AM CURRENT\17267 Site Plan.dwg  
Patrick Bogie

PREPARED FOR:  
 119 PARTNERS LLC  
 11 SUMMER STREET SUITE 8  
 CHELMSFORD, MA 01824

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- NOTES:  
 THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE FOLLOWING GENERAL REQUIREMENTS.
- A. PARALLEL INSTALLATION:
- NORMAL CONDITIONS: THE INSIDE EDGE OF A WATER MAIN SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE INSIDE EDGE OF ANY SANITARY SEWER, STORM SEWER OR SEWER MANHOLE.
  - WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, ONE OF TWO METHODS MAY BE EMPLOYED. IN BOTH CASES THE INVERT OF THE WATER LINE MUST BE AT LEAST 18" ABOVE THE CROWN OF THE SEWER LINE.
1. LAY WATER AND SEWER IN SEPARATE TRENCHES WITH THE WATER MAIN AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH WITH A MINIMUM HORIZONTAL SEPARATION FROM INSIDE PIPE TO INSIDE PIPE OF 36" CROSSINGS.
- B. WHEN SEWERS MUST CROSS UNDER WATER MAINS, THE SEWER LAID SUCH THAT THE INVERT OF THE WATER LINE IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER LINE.
- WHEN THE SEWER ELEVATION CANNOT BE VARIED TO MEET THE REQUIREMENT, THE WATER LINE MUST BE RELOCATED OR RECONSTRUCTED WITH MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10 FT ON EACH SIDE OF THE SEWER.
  - WHEN IT IS IMPOSSIBLE TO OBTAIN EITHER OR BOTH OF THE ABOVE REQUIREMENTS, BOTH THE WATER AND SEWER LINES SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE OR OTHER EQUIVALENT MATERIAL. BOTH PIPES SHALL BE PRESSURE TESTED BY AN APPROVED METHOD TO ASSURE WATER TIGHTNESS OR BOTH PIPES SHALL BE ENCASED IN CONCRETE.

**SEWER/WATER SEPARATION & CROSSING DETAIL**  
 NOT TO SCALE

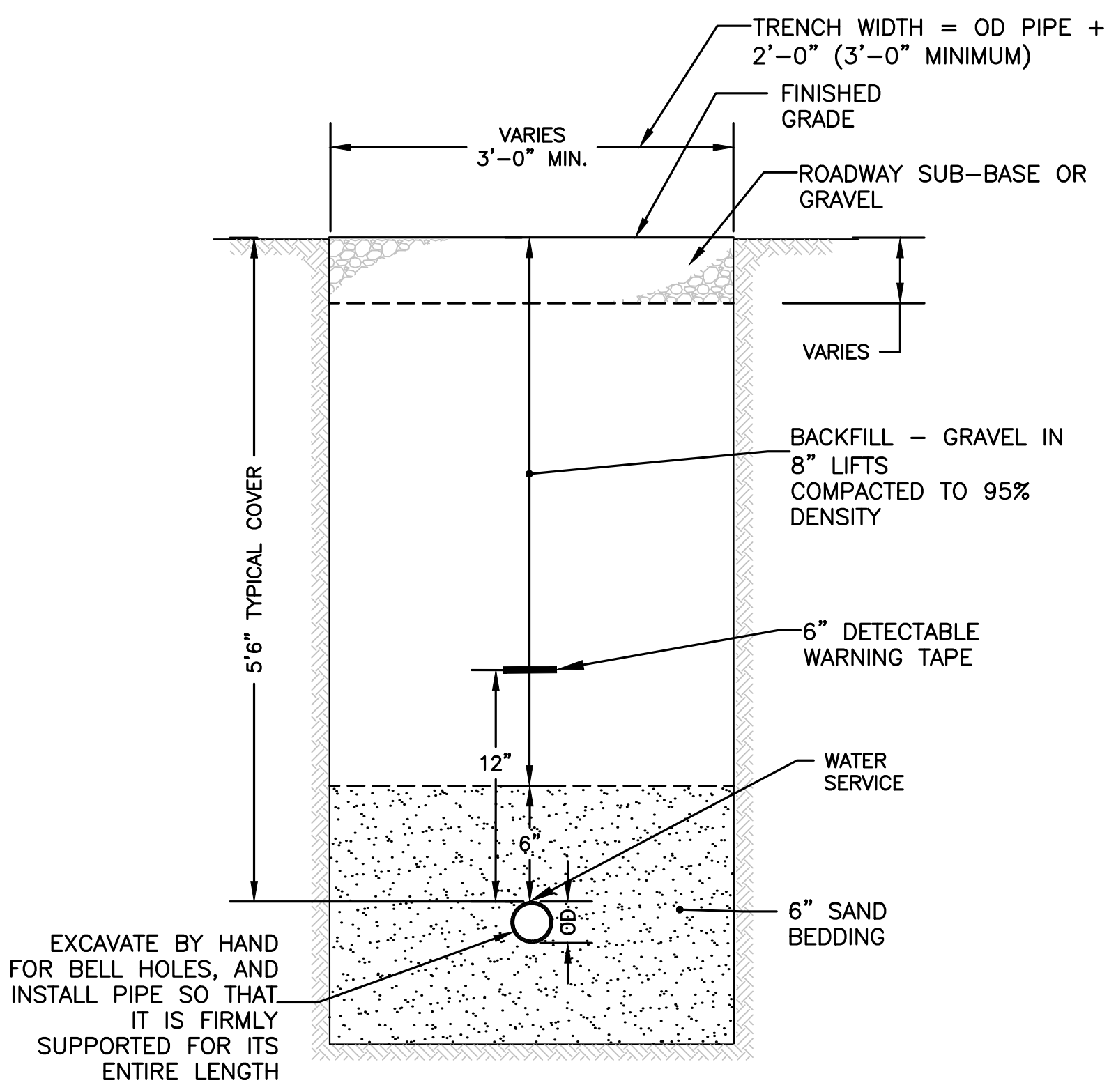
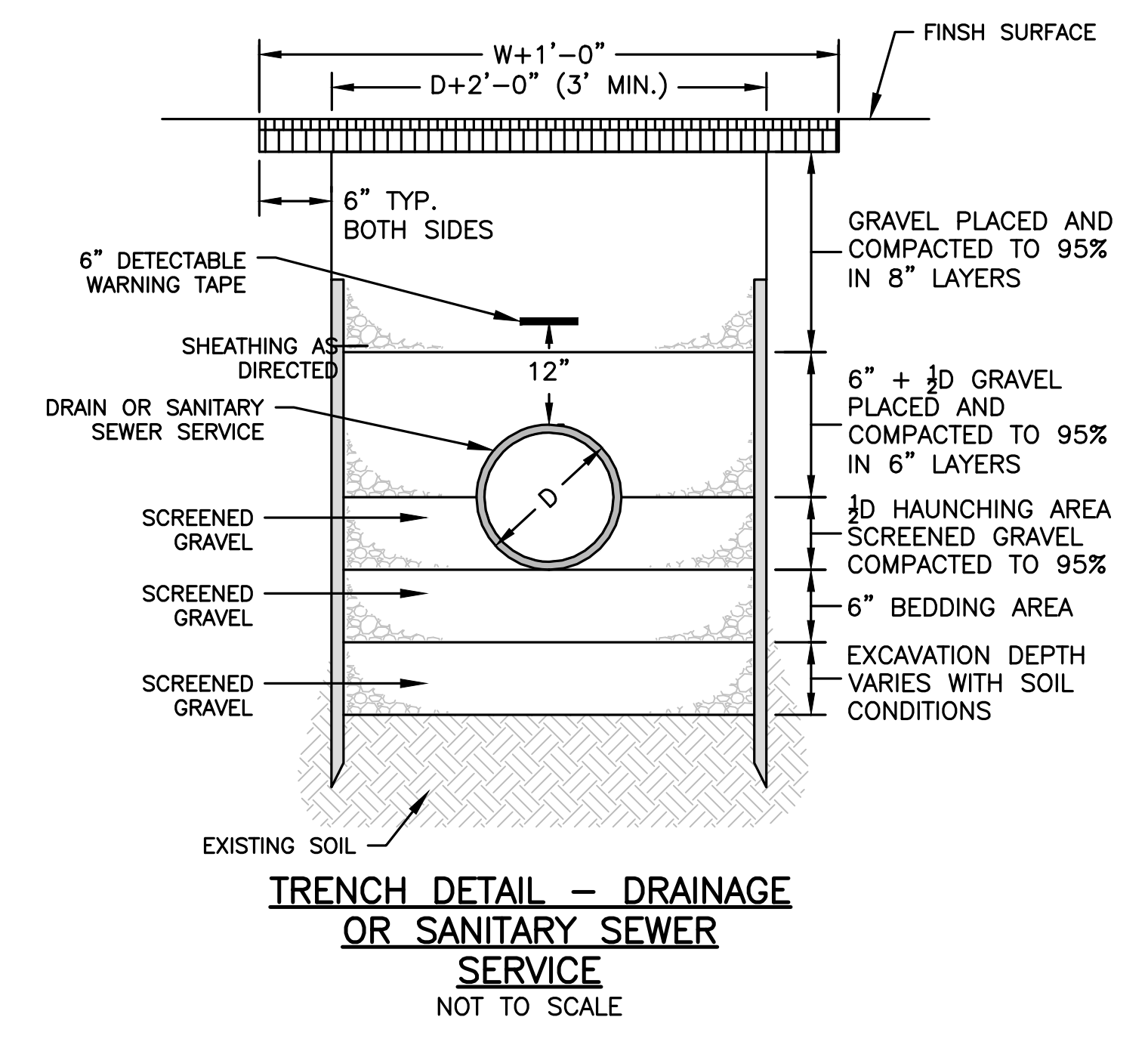
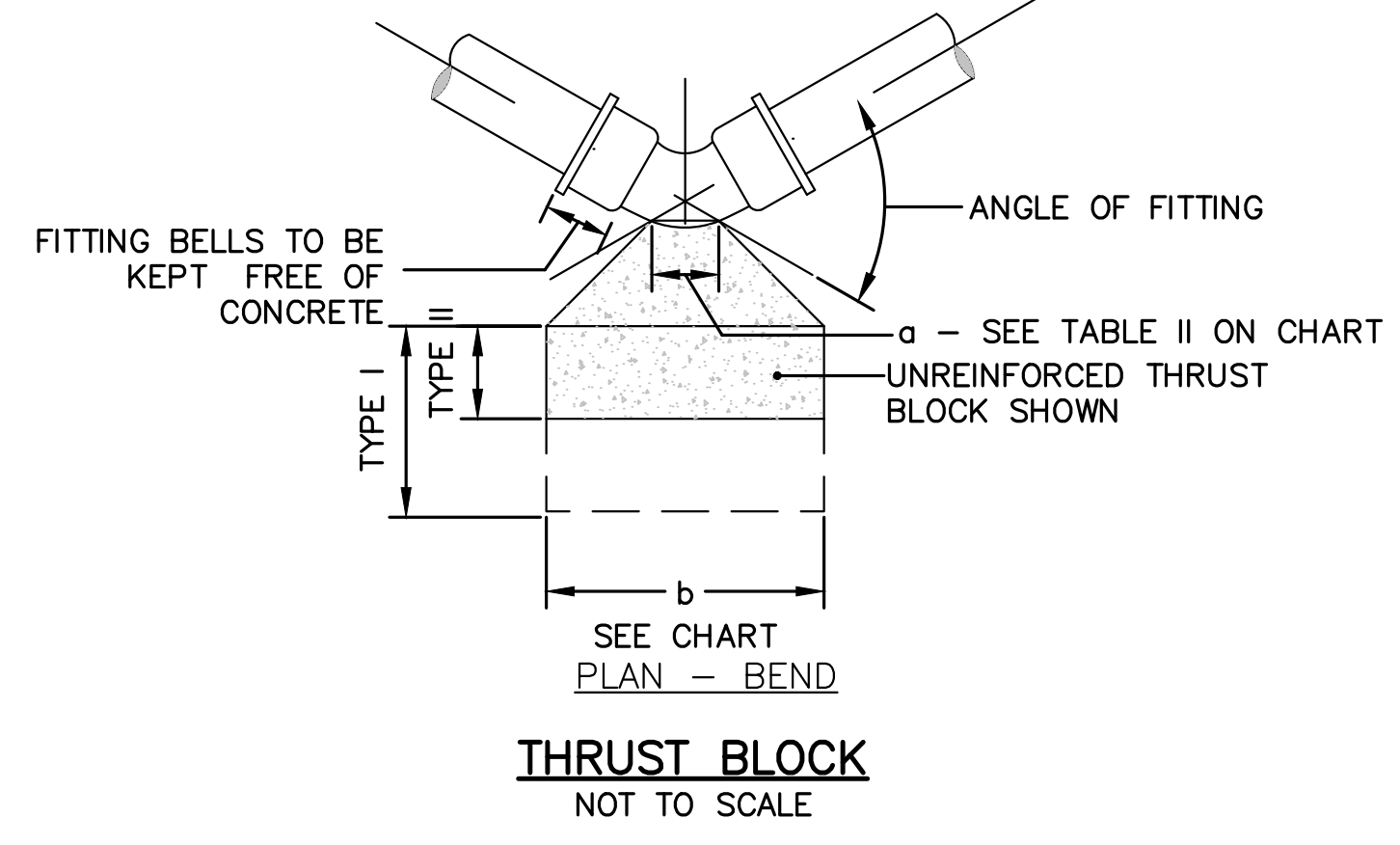
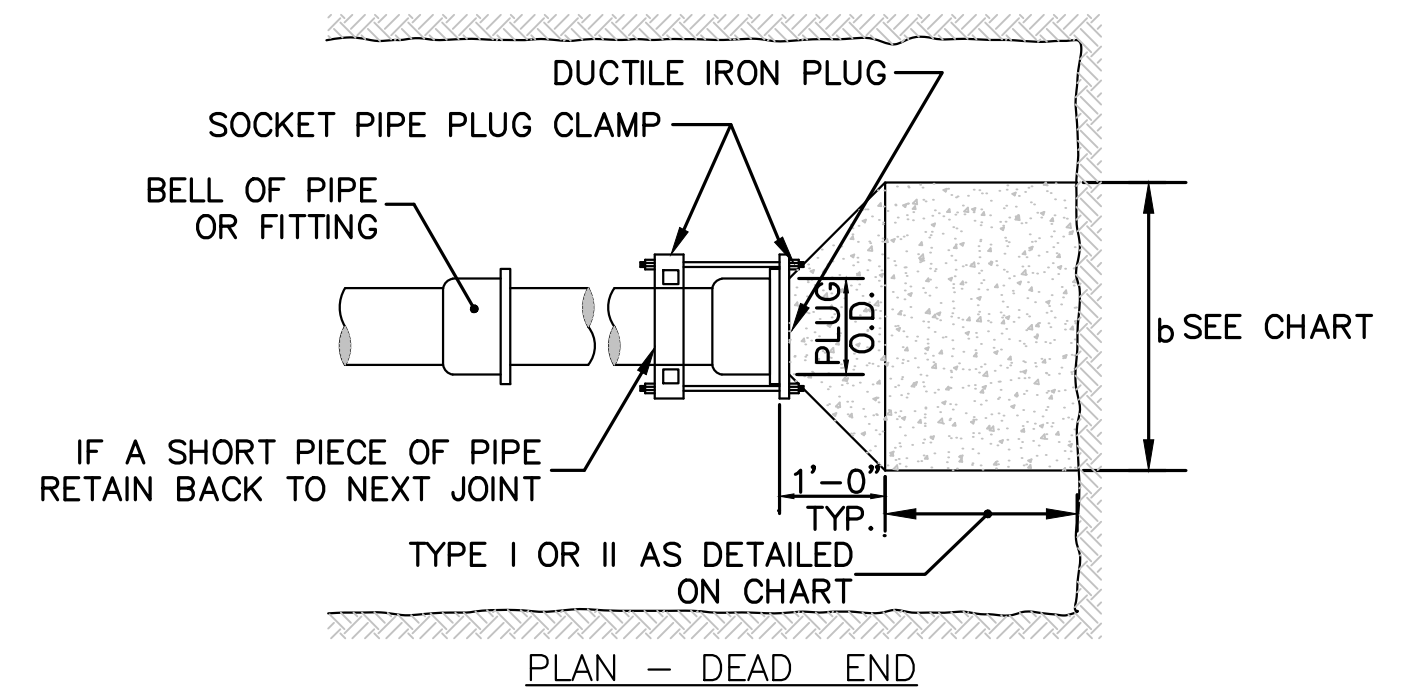
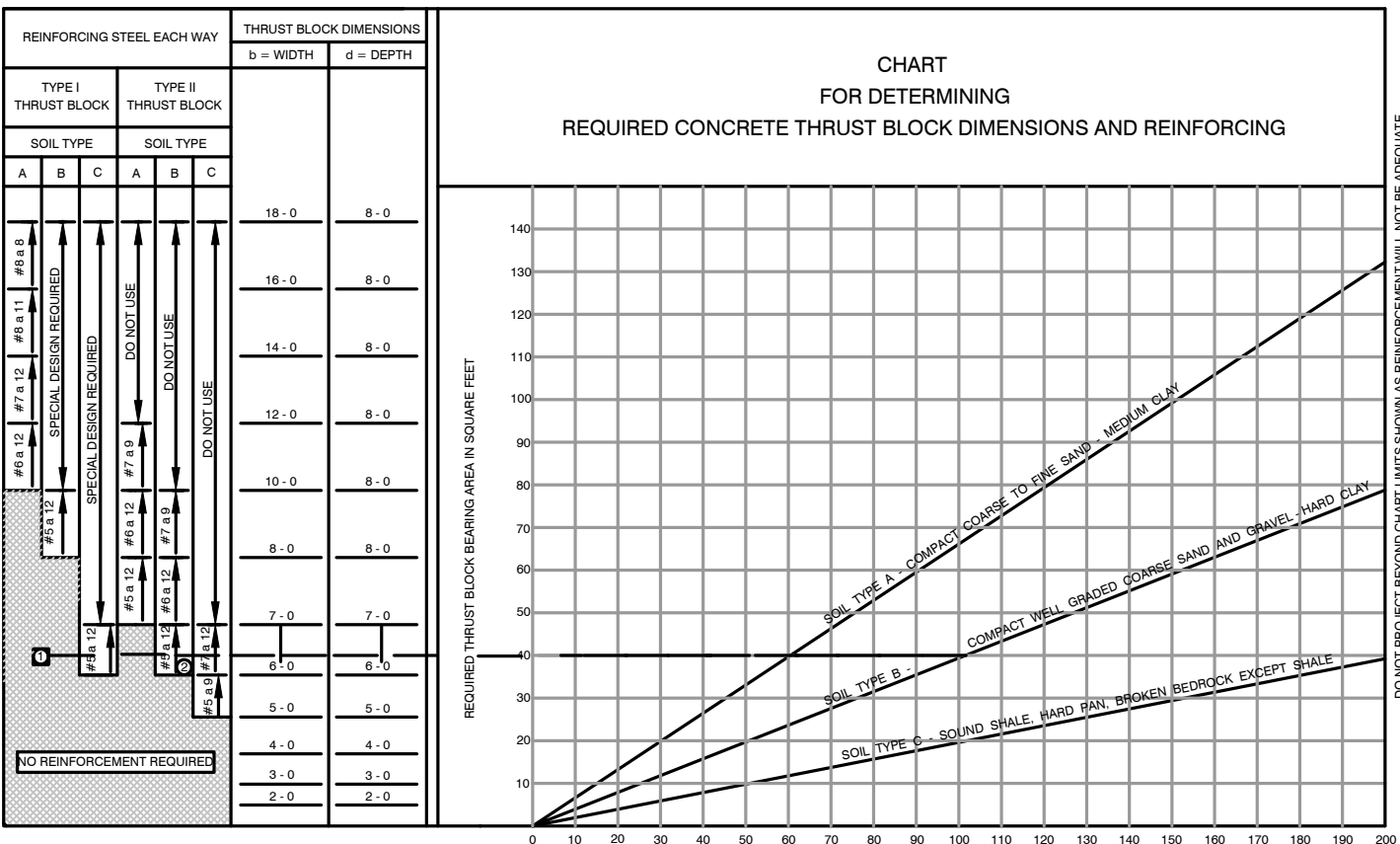


TABLE I - THRUST - KIIPS (WATER PRESSURE = 200 P.S.I.)

PIPE DIAMETER (INCHES)	6	8	10	12	16	20	24	30	36	42
4.5	5.0	10	15.0	22.5	45.0	67.5	90.0	135.0	202.5	270.0
6.0	7.5	15.0	22.5	37.5	67.5	101.25	135.0	202.5	270.0	360.0
8.0	10.0	20.0	30.0	45.0	82.5	123.75	165.0	247.5	322.5	420.0
10.0	12.5	25.0	37.5	56.25	101.25	151.875	202.5	303.75	397.5	525.0
12.0	15.0	30.0	45.0	67.5	123.75	185.625	247.5	371.25	487.5	630.0
16.0	20.0	40.0	60.0	90.0	165.0	247.5	322.5	487.5	630.0	840.0
20.0	25.0	50.0	75.0	112.5	202.5	303.75	405.0	603.75	787.5	1050.0
24.0	30.0	60.0	90.0	135.0	247.5	371.25	495.0	738.75	972.5	1290.0
30.0	37.5	75.0	112.5	168.75	303.75	455.625	607.5	911.25	1215.0	1620.0
36.0	45.0	90.0	135.0	202.5	367.5	551.25	735.0	1102.5	1470.0	1980.0
42.0	52.5	105.0	157.5	236.25	427.5	641.25	855.0	1282.5	1710.0	2280.0



REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KF	04-17-24	REV. PER PEER REVIEW

4-17-24  
 KATIE L. ENRIGHT  
 CIVIL  
 No. 46111  
 REGISTERED PROFESSIONAL ENGINEER

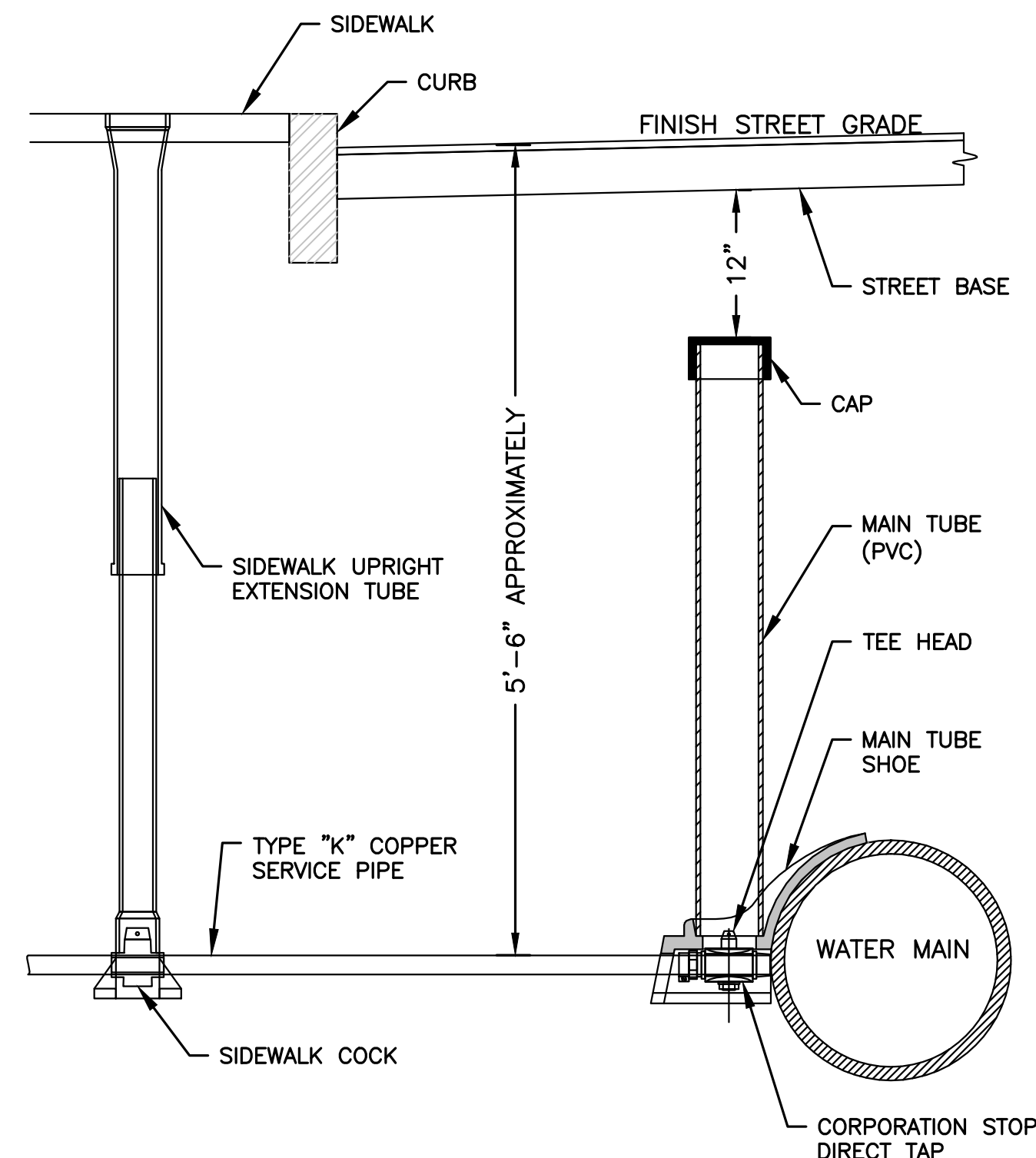
SITE PLAN

DETAIL SHEET  
 5 OF 7

DATE: 2/16/2024  
 PROJECT NUMBER: 17267  
 DESIGNED BY: NC  
 DRAWN BY: NC  
 CHECKED BY: KE

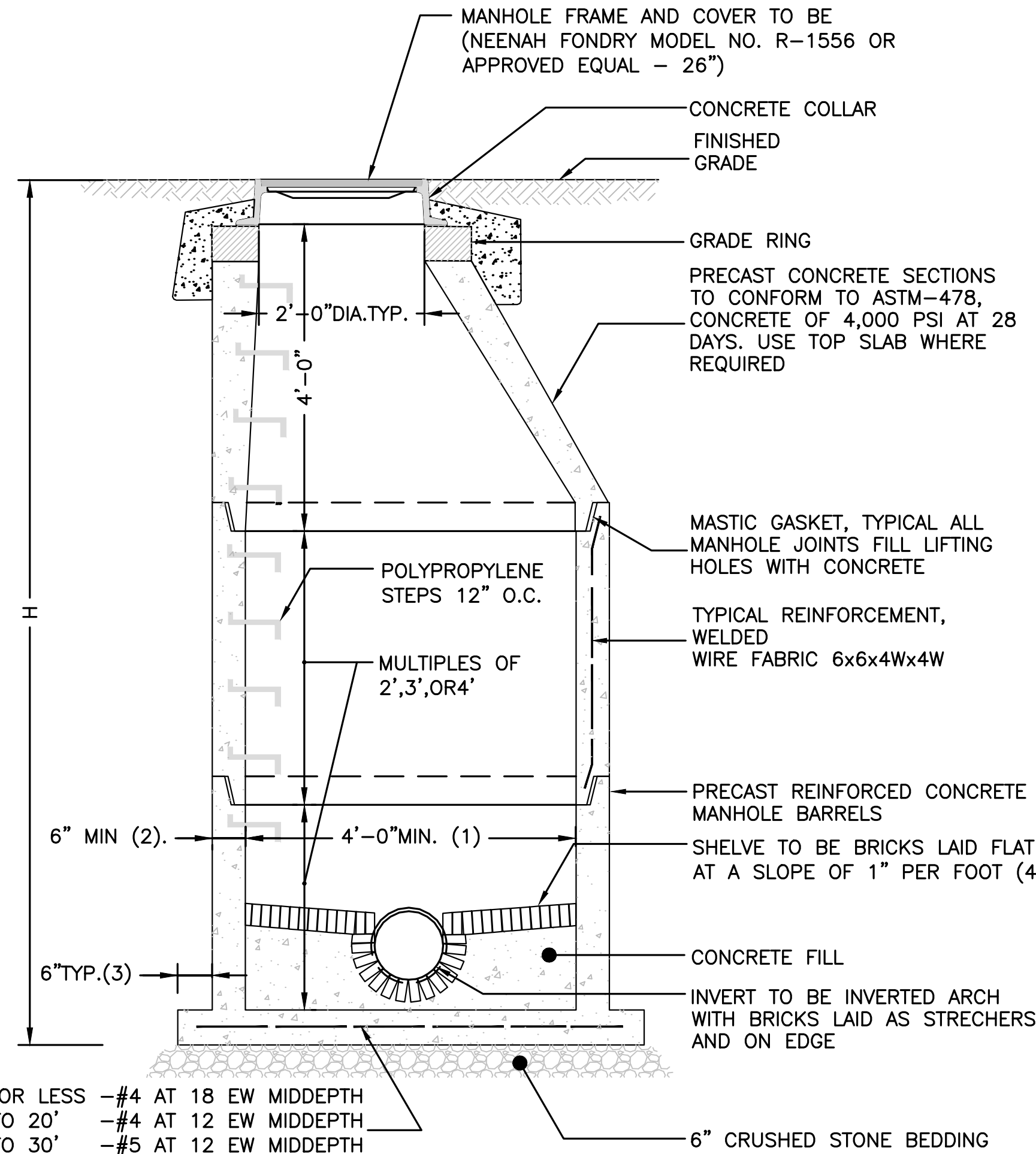
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**TYPICAL WATER CONNECTION**  
**1" SERVICE PIPE**  
NOT TO SCALE

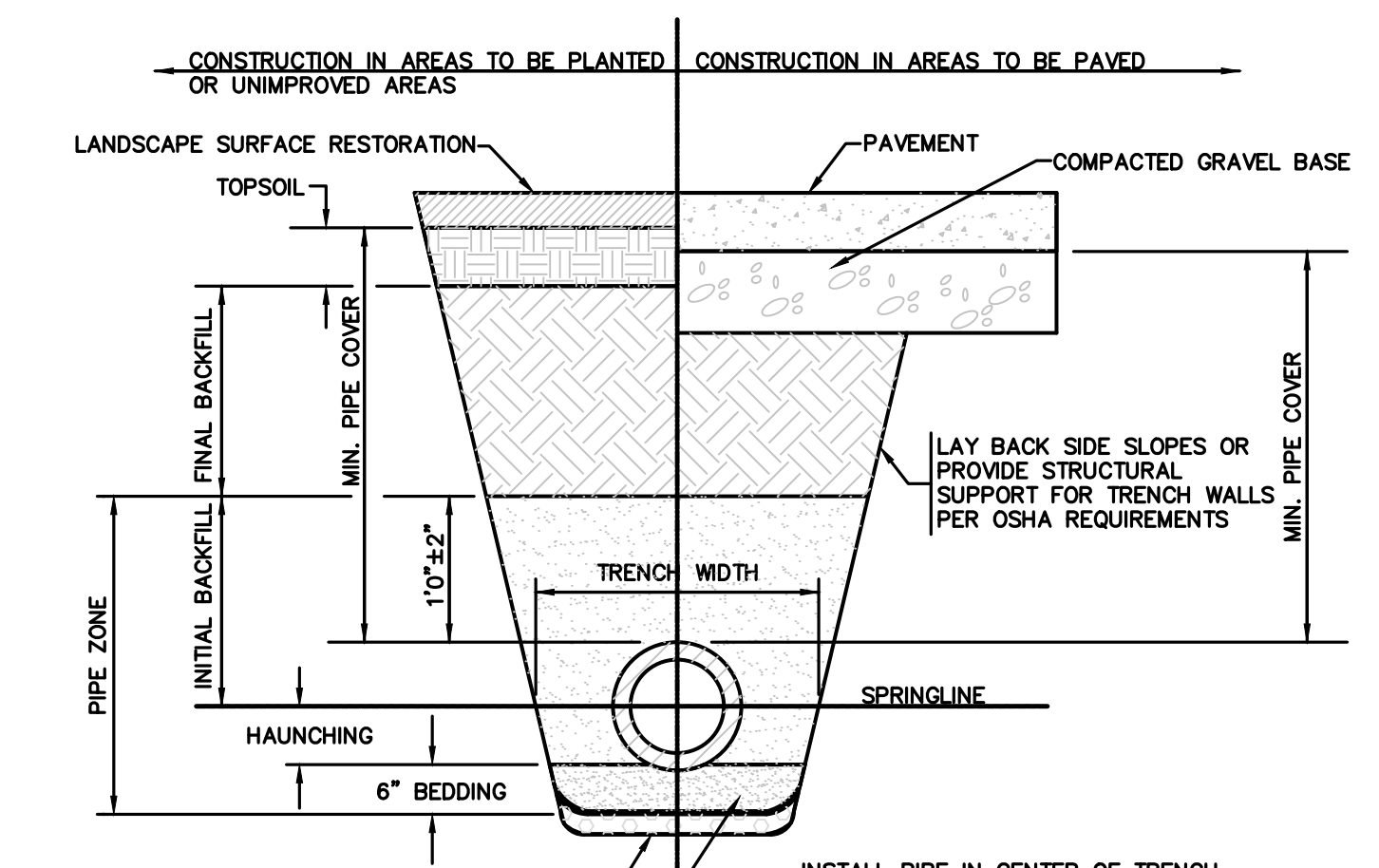
NOTE: IF A SIDEWALK IS NOT PRESENT, PROVIDE A BUFFALO STYLE BOX AT A SIMILAR DISTANCE OFF THE BACK OF THE CURB (6'-7')



**PRECAST CONCRETE MANHOLE**  
NOT TO SCALE

- NOTES:**
- 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER.
  - 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
  - 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.

H = 10' OR LESS -#4 AT 18 EW MIDDEPTH  
 H = 10' TO 20' -#4 AT 12 EW MIDDEPTH  
 H = 20' TO 30' -#5 AT 12 EW MIDDEPTH  
 IN ADDITION TO WELDED WIRE FABRIC



**PIPE TRENCH**  
NOT TO SCALE

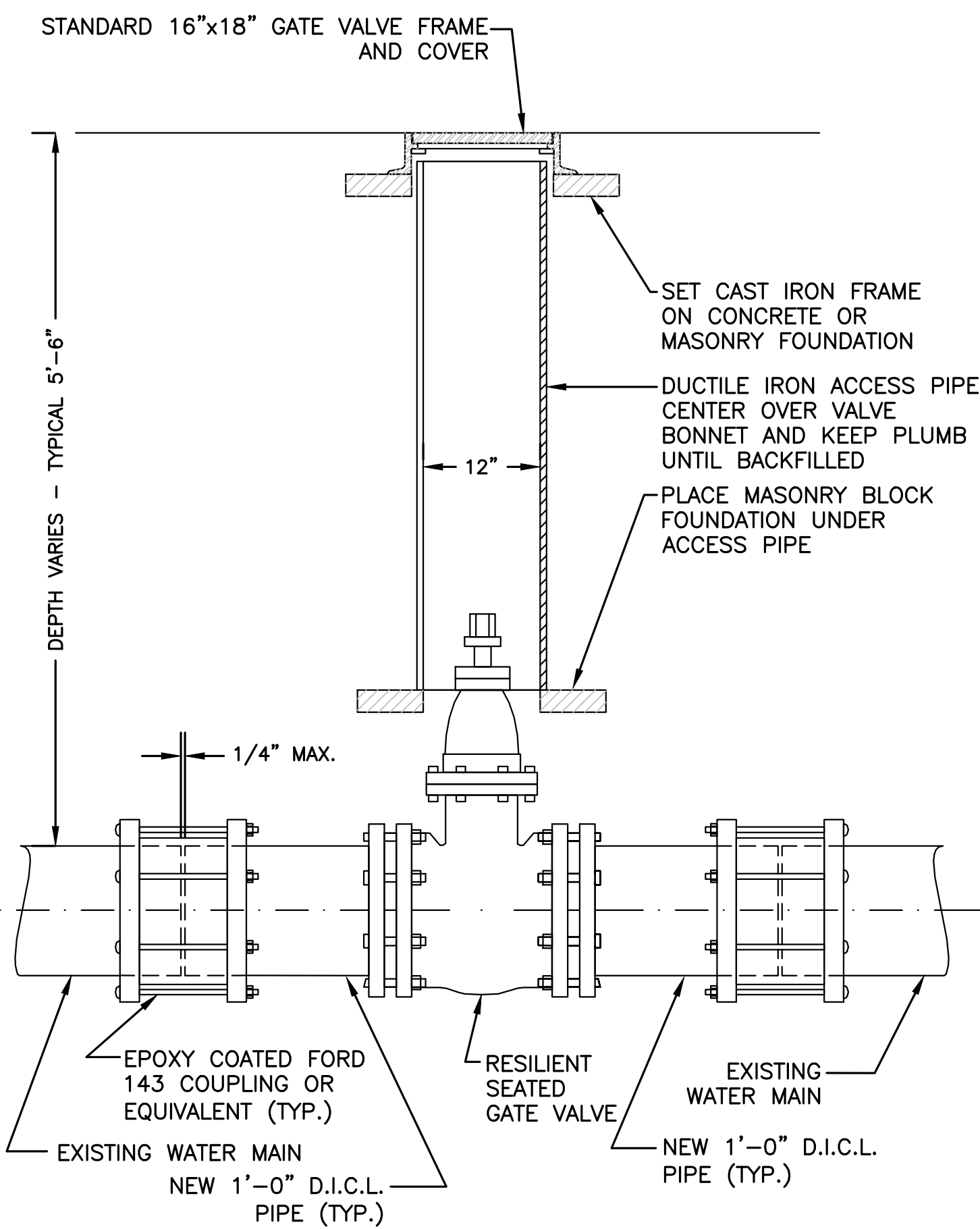
**MATERIAL KEY NOTES (SEE TABLE BELOW):**

- PLACE 2" MINUS CRUSHED STONE.
- PLACE 1/2" MINUS SAND BORROW (MHD M1.04.1), AT OPTIMUM MOISTURE IN HORIZONTAL 6" DEEP LOOSE LAYERS, COMPACT TO 95% PER ASTM D-1557 MODIFIED PROCTOR METHOD.
- IN PLANTED OR UNIMPROVED AREAS, USE 2-INCH MINUS ON-SITE EXCAVATED MATERIAL. COMPACT TO 95% PER ASTM D-1557. IN PAVED AREAS, OBTAIN ENGINEER APPROVAL OF 2-INCH MINUS ON-SITE EXCAVATED MATERIALS.

FOUNDATION, BEDDING AND BACKFILL MATERIALS		
PIPE MATERIAL	HDP, PVC	RC, DI
FOUNDATION STABILIZATION	[NOTE 1]	[NOTE 1]
BEDDING	[NOTE 2]	[NOTE 2]
HAUNCHING	[NOTE 2]	[NOTE 2]
INITIAL BACKFILL	[NOTE 2]	[NOTE 2]
FINAL BACKFILL	[NOTE 3]	[NOTE 3]

**MINIMUM PIPE COVER:**

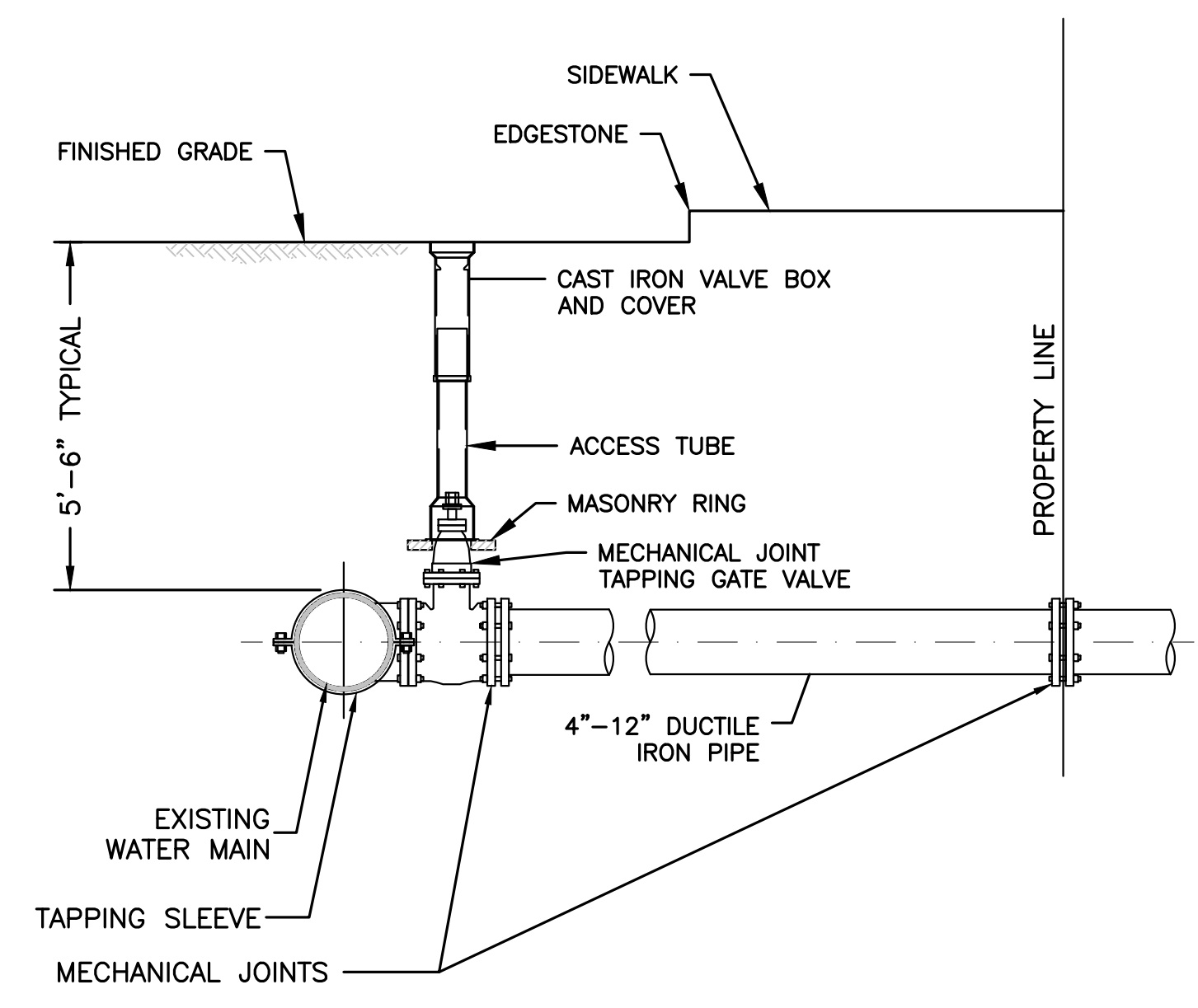
PIPE MATERIAL	HDP, PVC	RC, DI
WATER	5' - 0"	5' - 0"
SEWER	2' - 0"	2' - 0"
DRAIN	1' - 0"	1' - 0"



**TYPICAL GATE VALVE INSTALLATION**  
NOT TO SCALE

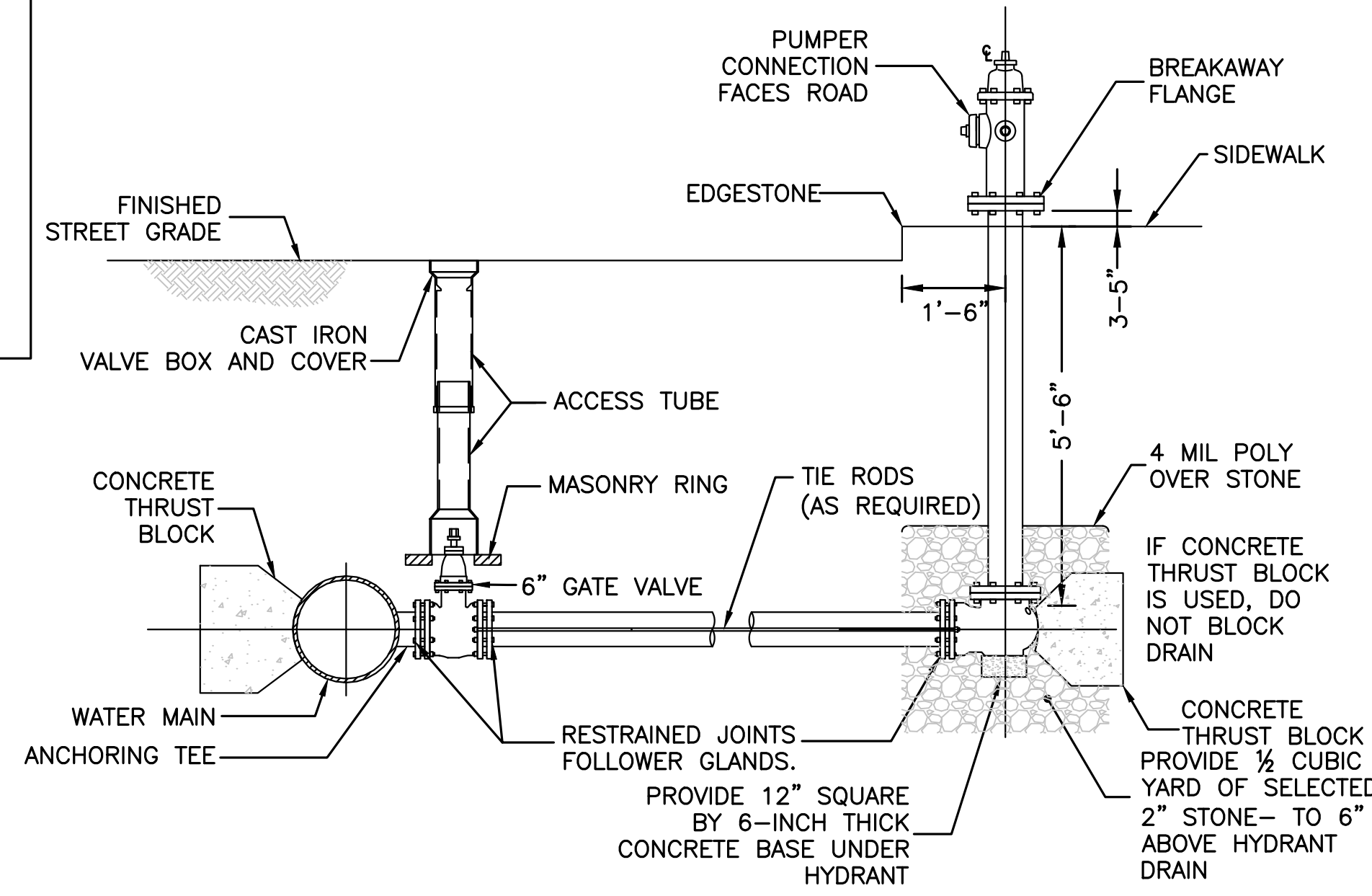
**NOTE:**

- ALL EXCAVATION AND BACKFILLING AND PAVING SHALL BE IN ACCORDANCE WITH THE CITY OF BOSTON REQUIREMENTS.



**TAPPING SLEEVE & VALVE**  
NOT TO SCALE

- NOTES:**
- CONCRETE THRUST BLOCK TO BE USED ONLY WHERE IT WILL BEAR ON UNDISTURBED EARTH.
  - USE RESTRAINED JOINT FITTINGS OR TIE RODS WHERE CONCRETE THRUST BLOCK IS UNACCEPTABLE.
  - SIZE OF BLOCK OR MEGALUG TO BE DESIGNED FOR SPECIFIC CONDITIONS.



**TYPICAL FIRE HYDRANT CONNECTION FOR HIGH OR LOW SERVICE LINE**  
NOT TO SCALE

- NOTES:**
- HYDRANT TO BE EITHER AFC AMERICAN DARLING B-62-B OR THE KENNEDY GUARDIAN K-81D HYDRANT.
  - HYDRANTS SHALL BE OPEN LEFT
  - THE DIRECTION OF THE NOZZLES CAN BE CHANGED 360 DEGREES BY ROTATING THE HYDRANT WITHOUT DIGGING UP THE HYDRANT
  - HYDRANT SHALL HAVE TWO (2) 2.5" HOSE NOZZLES AND ONE (1) 4.5" PUMPER NOZZLE.

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SITE PLAN

DETAIL SHEET  
6 OF 7

DATE:	2/16/2024
PROJECT NUMBER:	17267
DESIGNED BY:	NC
DRAWN BY:	NC
CHECKED BY:	KE

C.17

DEEP HOLE AND PERCOLATION TESTING  
 DECEMBER 06, 2023  
 SOIL EVALUATOR: KASEY FERREIRA, E.I.T - S.E.#14165  
 WITNESS: IRA GROSSMAN, NASHOBA BOARD OF HEALTH

TP-101 ELEV. 263.50'  
 0"-9" A LOAMY SAND  
 9"-18" Bw SANDY LOAM  
 18"-96" C LOAMY SAND (30% COBBLE)  
 NO SIGNS OF ESHW

TP-102 ELEV. 261.30'  
 0"-12" A ORGANIC/LOAM  
 12"-19" Bw SANDY LOAM  
 19"-104" C LOAMY SAND  
 ESHW @ 63" - ELEV. 256.05'

TP-103 ELEV. 262.00'  
 0"-11" A ORGANIC/LOAM  
 11"-23" B LOAMY SAND  
 23"-62" C1 SAND  
 62"-84" C2 GRAVELLY SAND  
 ESHW @ 84" - ELEV. 255.00'

TP-104 ELEV. 263.90'  
 0"-11" A ORGANIC/LOAM  
 11"-19" Bw LOAMY SAND  
 19"-104" C GRAVELLY SAND  
 ESHW @ 93" - ELEV. 256.15'

TP-105 ELEV. 265.50'  
 0"-20" FILL  
 20"-31" A<sub>2</sub> ORGANIC/LOAM  
 31"-45" Bw LOAMY SAND  
 45"-106" C GRAVELLY LOAMY SAND  
 NO SIGNS OF ESHW

P-101 ELEV. 264.80'  
 0"-10" FILL  
 10"-18" A<sub>2</sub> ORGANIC/LOAM 7.5 YR 4/2  
 18"-22" Bw LOAMY SAND 7.5 YR 6/8  
 22"-116" C LOAMY SAND 7.5 YR 5/4  
 ESHW @ 90" - ELEV. 257.30'

P-102 ELEV. 265.20'  
 0"-11" A ORGANIC/LOAM 7.5 YR 4/2  
 11"-19" Bw LOAMY SAND 7.5 YR 7/8  
 19"-123" C GRAVELLY SAND 7.5 YR 8/6  
 ESHW @ 86" - ELEV. 258.03'

PERC SHELF DEPTH: 27"  
 PRE SOAK: ACCEPTED 24 GALLONS IN 15 MINUTES 1:47PM  
 RATE: <2 MIN/INCH  
 TOP OF WELL: ELEV. 267.95'

P-103 ELEV. 266.05'  
 0"-20" A ORGANIC/LOAM 7.5 YR 4/2  
 20"-33" Bw LOAMY SAND 7.5 YR 7/8  
 33"-115" C GRAVELLY LOAMY SAND 7.5 YR 8/6  
 ESHW @ 100" - ELEV. 257.72'

PERC SHELF DEPTH: 38"  
 PRE SOAK: 2:57PM  
 12" @ 3:12, 9" @ 3:14, 6" @ 3:18  
 RATE: ROUNDED TO 2.00 MIN/INCH

P-104 ELEV. 266.00'  
 0"-14" A ORGANIC/LOAM  
 14"-27" Bw LOAMY SAND 7.5 YR 7/8  
 27"-110" C1 GRAVELLY SAND 7.5YR 8/6  
 110"-134" C2 MEDIUM SAND 7.5YR 6/6  
 ESHW @ 110" - ELEV. 256.83'

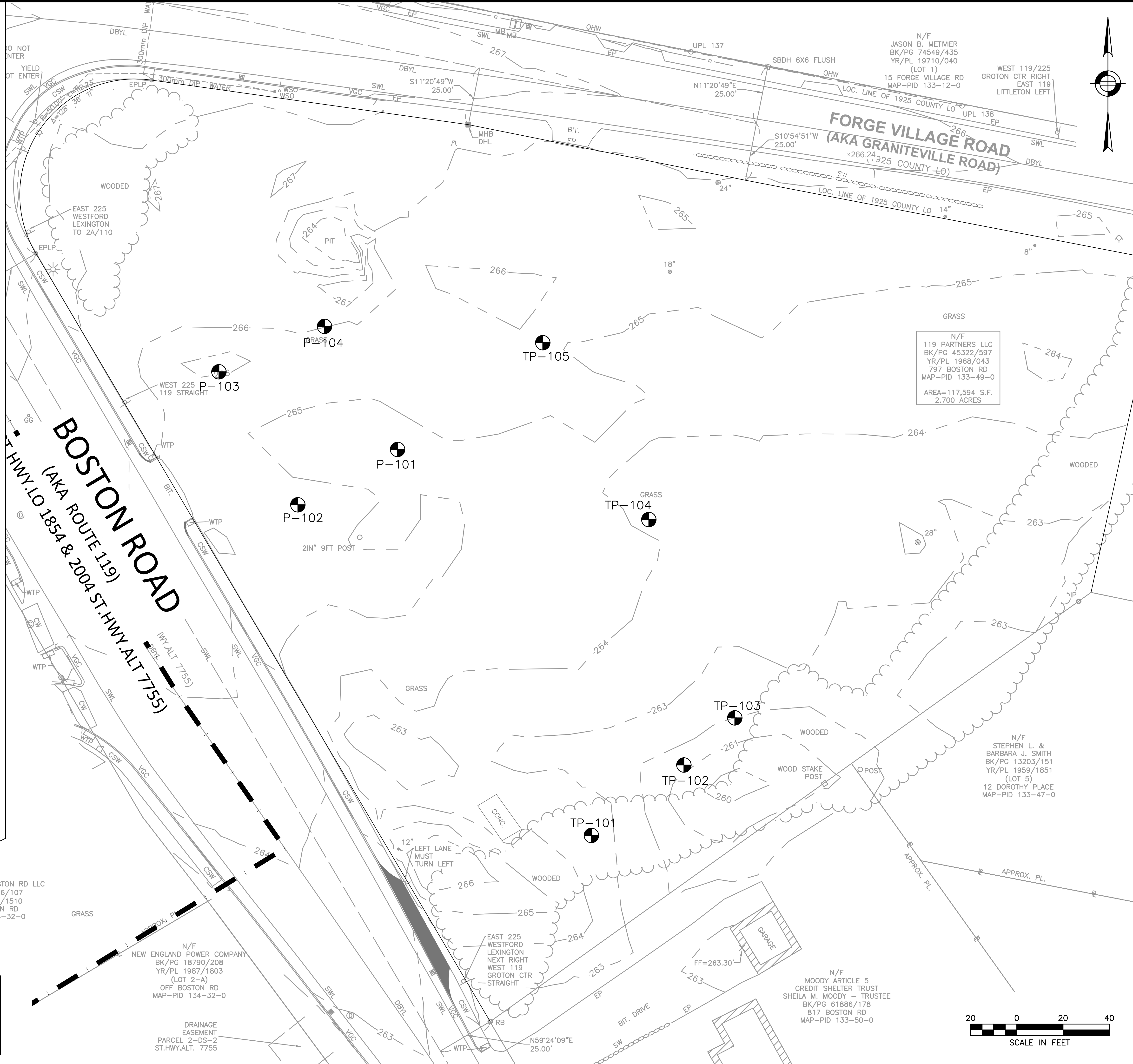
PERC SHELF: 30"  
 PRE SOAK: 2:13PM  
 12" @ 2:28, 9" @ 2:30, 6" @ 2:33  
 RATE: ROUNDED TO 2.00 MIN/INCH  
 TOP OF WELL: ELEV. 268.67'

N/F  
 RFC MFC 788 BOSTON RD LLC  
 BK/PG 79296/107  
 YR/PL 1980/1510  
 788 BOSTON RD  
 MAP-PID 134-32-0

N/F  
 NEW ENGLAND POWER COMPANY  
 BK/PG 18790/208  
 YR/PL 1987/1803  
 (LOT 2-A)  
 OFF BOSTON RD  
 MAP-PID 134-32-0

DRAINAGE  
 EASEMENT  
 PARCEL 2-DS-2  
 ST.HWY.ALT. 7755

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SITE  
 PLAN

DETAIL SHEET  
 7 OF 7

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