

SHINGLEMILL APARTMENTS

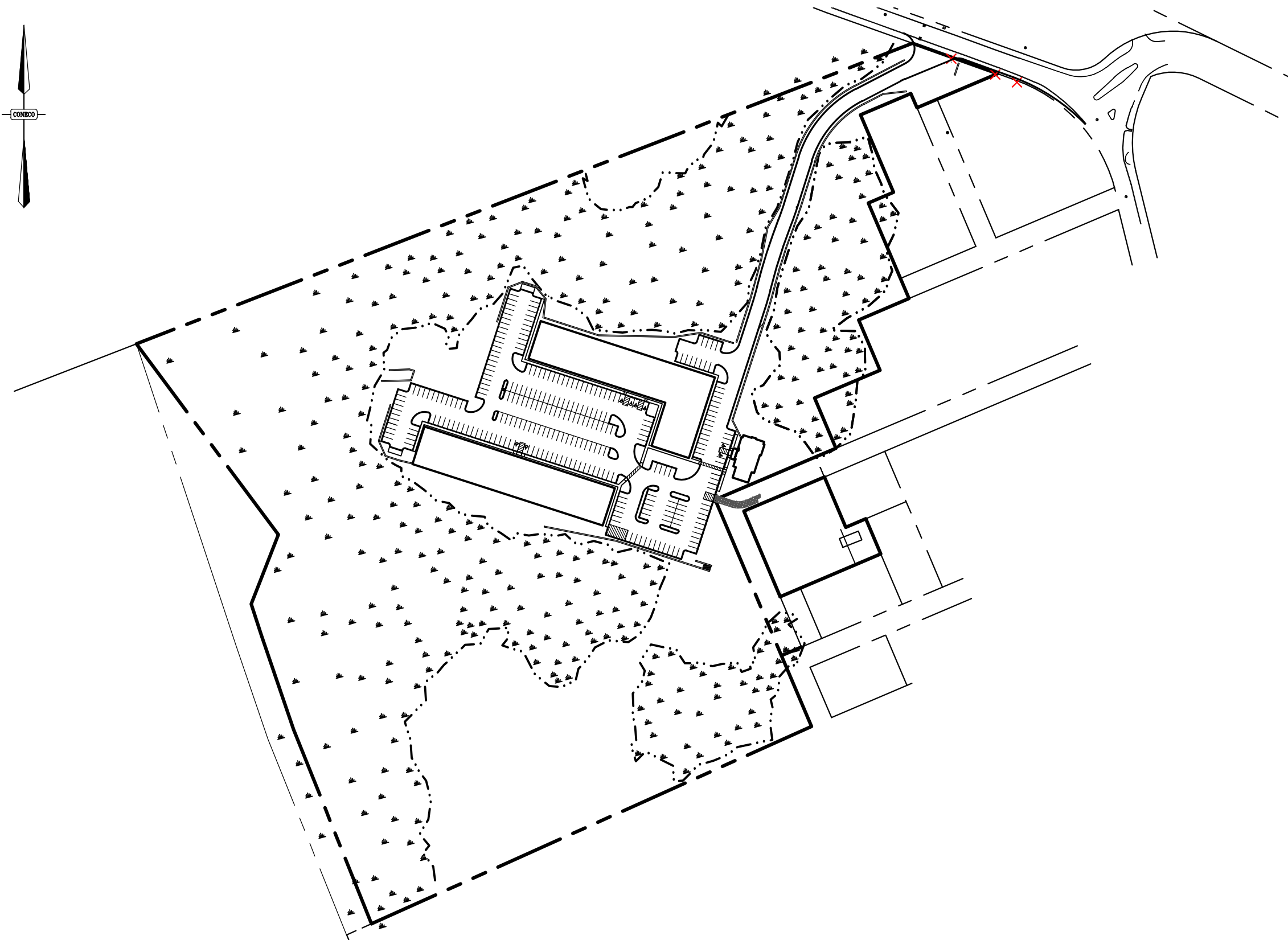
COMPREHENSIVE PERMIT PLANS

0 POND STREET

ROCKLAND, MASSACHUSETTS 02370



MASSGIS 2008 AERIAL PHOTO
SCALE: 1" = 500'



SCALE: 1" = 200'

DESCRIPTION	SHEET
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SITE INFORMATION:

ZONING DISTRICT: INDUSTRIAL PARK-HOTEL H1
TOTAL GROSS AREA: 28.64 Ac.
TOTAL BUILDING AREA: 1.37 Ac.
TOTAL PAVEMENT & PARKING AREA: 2.81 Ac.
TOTAL WETLAND OPEN SPACE: 16.46 Ac.

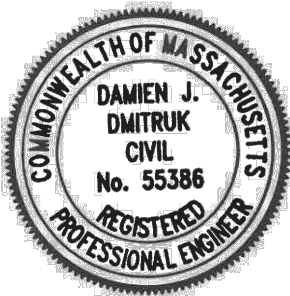
PREPARED FOR:
SHINGLEMILL, LLC
4 FIRST STREET
BRIDGEWATER, MASSACHUSETTS 02324

PREPARED ON:
MAY 14, 2020



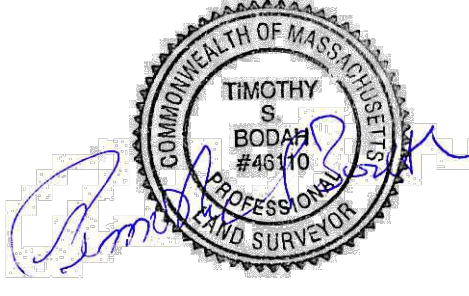
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE: 508.697.3191, FAX: 508.697.5996
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ENGINEER:
DAMIEN J. DMITRUK, P.E.
CONECO ENGINEERS & SCIENTISTS, INC.
BRIDGEWATER, MA 02324
D. Dmitruk
MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER #55386



05/14/2020
DATE:

SURVEYOR:
TIMOTHY S. BODAH, P.L.S.
CONECO ENGINEERS & SCIENTISTS, INC.
BRIDGEWATER, MA 02324
T. Bodah
MASSACHUSETTS REGISTERED PROFESSIONAL LAND SURVEYOR #46110



05/14/2020
DATE:

SHINGLEMILL APARTMENTS			
0 POND STREET, ROCKLAND, MASSACHUSETTS 02370			
R E V I S I O N S			
NO.	DATE	DESCRIPTION	DR/CK

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		PROPERTY LINE ABUTTER
		EASEMENT LINE
		FLOOD ZONE
		EDGE OF WETLAND
		25' WETLAND BUFFER
		100' WETLAND BUFFER
		EDGE OF VERNAL POOL
		100' VERNAL POOL BUFFER
		MAJOR GROUND CONTOUR
		MINOR GROUND CONTOUR
		EDGE OF PAVEMENT
		VERTICAL CURB
		CAPE COD BERM
		BUILDING
		TREE LINE
		ROCK WALL
		LIMIT OF WORK/EROSION CONTROL LINE
		DRAINAGE LINE
		GUARD RAIL
		POST AND RAIL FENCE
		CHAIN LINK FENCE
		GAS LINE
		WATER LINE
		SEWER LINE
		OVERHEAD WIRE
		TELEPHONE
		ELECTRIC/TELEPHONE/COMMUNICATIONS
		SEWER MANHOLE
		DRAIN MANHOLE
		CATCH BASIN
		TEST PIT
		UTILITY POLE
		GUY WIRE
		LIGHT POLE
		BOUND W/ DRILL HOLE
		BANK/WETLAND FLAG
		WATER VALVE
		GAS VALVE
		HYDRANT
		MONITORING WELL
		PARKING SPACE COUNT
		SEWER CLEAN OUT
		FLARED END SECTION

ABBREVIATIONS	
ABBREV.	DESCRIPTION
BC	BOTTOM OF CURB
BLDG	BUILDING
BM	BENCH MARK
BOS	BOTTOM OF SLOPE
BVW	BORDERING VEGETATED WETLAND
CB	CATCH BASIN
CCB	CAPE COD BERM
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC.	CONCRETE
CPD	CONCRETE PAD
CY	CUBIC YARD
DCB	DOUBLE CATCH BASIN
DEM	DEMOLISH
DH	DRILL HOLE
DIA.	DIAMETER
DIM.	DIMENSION
DMH	DRAIN MANHOLE
ELEV.	ELEVATION
ELEC.	ELECTRIC
EM	ELECTRIC METER
EOP	EDGE OF PAVEMENT
EOW	EDGE OF WETLANDS
EXIST, EX.	EXISTING
FES	FLARED END SECTION
FF	FINISHED FLOOR
FEE	FIRST FLOOR ELEVATION
FT	FOOT OR FEET
GG	GAS GATE
GV	GATE VALVE
GW	GROUND WATER
HGW	HIGH GROUNDWATER
HOR	HORIZONTAL
HW	HEADWALL
HYD	HYDRANT
IN	INCHES
INV., I	INVERT
L	LENGTH
LP	LIGHT POLE
LS	LANDSCAPING
MAT	MATERIAL
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MW	MONITORING WELL
N	NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NO	NUMBER
NTS	NOT TO SCALE
N/F	NOW OR FORMERLY
OHW	OVERHEAD WIRE
PKG	PARKING
PL	PROPERTY LINE
PROP., P	PROPOSED
PT	POINT OR POINT OF TANGENT
PVC	POLYVINYL CHLORIDE PIPE
R	RIM
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
S	SLOPE
STC	STORMCEPTOR CATCH BASIN (WATER QUALITY CATCH BASIN)
SEC.	SECTION
SF	SQUARE FEET
SMH	SEWER MANHOLE
SP	STANDPIPE
SPEC.	SPECIFICATION
SW	SIDEWALK
TC	TOP OF CURB
TEK., T	TELEPHONE
TMH	TELEPHONE MANHOLE
TOB	TOP OF BANK
TOF	TOP OF FOUNDATION
TOS	TOP OF SLOPE
TP	TEST PIT
TYP.	TYPICAL
UP	UTILITY POLE
VERT	VERTICAL
WG/V	WATER GATE/VALVE
WM	WATER METER
WMH	WATER MAN HOLE

NOTES

GENERAL:

- THE CONTRACTOR SHALL NOTIFY "DIGSAFE" (1-888-DIGSAFE) AT LEAST 72 HOURS (3 BUSINESS DAYS) BEFORE EXCAVATING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS.
- SITE SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- SITE CLEARING SHALL BE LIMITED TO THE EROSION CONTROL LINE AND/OR THE LIMIT OF GRADING IN AREAS WHERE EROSION CONTROL LINE IS NOT REQUIRED. CARE SHOULD BE TAKEN TO PROTECT EXISTING TREES OUTSIDE OF THIS LINE, THEREBY MAINTAINING A NATURAL BUFFER TO THE GREATEST EXTENT POSSIBLE.
- DEGRADED AND DAMAGED EROSION CONTROLS TO BE REPLACED BY THE CONTRACTOR UNTIL FINAL SOIL STABILIZATION METHODS HAVE BEEN ESTABLISHED.
- BUILDING HEIGHTS SHALL CONFORM THE LATEST ARCHITECTURAL DESIGN PLANS.

LAYOUT & MATERIALS:

- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- CONCRETE BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LAND SURVEYOR.

EXISTING CONDITIONS INFORMATION:

- THE PROPERTY IS REFERENCED BY THE TOWN OF ROCKLAND ASSESSOR'S ID 9-13 & 10-68.
- OWNER OF RECORD:
SHINGLEMILL, LLC
4 FIRST STREET, BRIDGEWATER, MA
BOOK 52044, PAGE 229 (MAP 9, LOT 13)
BOOK 51016, PAGE 303 (MAP 10, LOT 68)
- ELEVATIONS REFER TO NAVD 88.
- WETLANDS DELINEATED BY WETLANDS STRATEGIES, INC. MAY & SEPTEMBER 2018 AND FIELD LOCATED BY ATLANTIC DESIGN ENGINEERS, INC.
- TOPOGRAPHIC INFORMATION IS A RESULT OF A COMBINATION OF LIDAR TERRAIN AND ELEVATION DATA FROM MASSGIS, AND AN ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED BY CONECO ENGINEERS & SCIENTISTS.
- LOCUS PROPERTY IN IN ZONE X AND ZONE A, AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 25023C0092J DATED JULY 17, 2012.
- FLOOD PLAIN LINES SHOWN IN THESE PLANS WERE DIGITIZED FROM THE "REQUEST FOR LETTER OF MAP REVISION, 1 POND STREET, ROCKLAND, MA" DATED JUNE 11, 2013 BY BSC GROUP. THE LETTER OF MAP REVISION CASE. NO. 12-01-2134P WAS ISSUED NOVEMBER 21,2013 AND EFFECTIVE ON THE FEMA MAP APRIL 14, 2014.
- UNDERGROUND UTILITY LOCATION AS SHOWN HEREON ARE TAKEN FROM AVAILABLE RECORD AND FIELD INFORMATION AND ARE APPROXIMATE ONLY. BEFORE PLANNING ANY CONSTRUCTION, DIGSAFE AND THE VARIOUS UTILITY COMPANY ENGINEERING DEPARTMENTS SHOULD BE CONSULTED.
- TREE SYMBOLS ARE FOR GRAPHIC PURPOSES ONLY AND DO NOT REPRESENT ACTUAL CANOPY LINES.

LANDSCAPING:

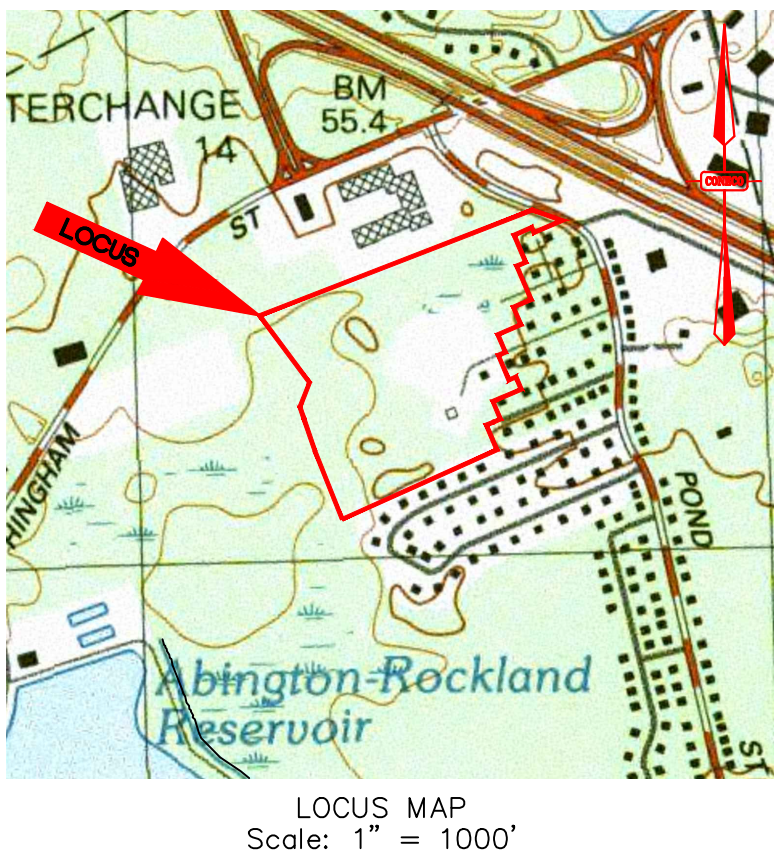
- ALL AREAS CLEARED AND/OR DISTURBED SHALL BE BROUGHT TO WITHIN 4 INCHES OF FINAL GRADE AND FINISHED WITH 4 INCHES OF LOAM AND SEED EXCEPT WHERE OTHER FINISHES ARE PROPOSED (REFER TO PLANS).
- CONTRACTOR IS RESPONSIBLE FOR REPLACING (IN KIND) ALL DEAD OR DYING PLANT MATERIAL FOR A PERIOD OF 2 YEARS AFTER INITIAL PLANTING.

UTILITIES:

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT. FAILURE TO PROVIDE OR PERFORM THE ABOVE PRIOR TO PERFORMING ANY WORK SHALL NOT BE GROUNDS FOR EXTRA PAYMENTS TO THE CONTRACTOR.
- SET CATCH BASIN RIMS, AND INVERTS OF DRAINS AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND DRAINAGE PLAN.
- RIM ELEVATIONS FOR DRAIN MANHOLES AND OTHER SUCH ITEMS ARE APPROXIMATE AND SHALL BE ADJUSTED AS FOLLOWS:
 - IN PAVEMENTS, CONCRETE SURFACES, AND ALL SURFACE TYPES ALONG ACCESSIBLE ROUTES, SET FLUSH WITH FINISH GRADES.
 - IN LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS, SET 1 INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
- THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITY COMPANY.
- UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
 - STORM DRAINAGE PIPES SHALL BE DOUBLE WALL, SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE (HDPE)

SITE DEVELOPMENT TABLES	
TOTAL SITE AREA: 1,281,642 S.F. (29.4± ACRES)	

ZONING TABLE	
ZONE: H1 – INDUSTRIAL PARK–HOTEL USES: RESIDENTIAL APARTMENTS	
	PROVIDED
<i>LOTS</i>	
MIN. AREA	29.4 ACRES.
MIN. FRONTAGE	165 FT
<i>BUILDINGS</i>	
MAX. BUILDING LOT COVERAGE	4.7%
MIN. FRONT YARD	710 FT
MIN. SIDE YARD	5 FT
MIN. REAR YARD	277 FT
MAX. BUILDING STORIES	5 STORIES
MAX. BUILDING HEIGHT	56 FT
*50 FEET IF THE ABUTTING LAND IS WITHIN ANY RESIDENTIAL DISTRICT	



05/14/2020

REVISIONS		DR/CK	DESCRIPTION	DATE	NO.

SHINGLEMILL, LLC
4 FIRST STREET
BRIDGEWATER, MASSACHUSETTS 02324

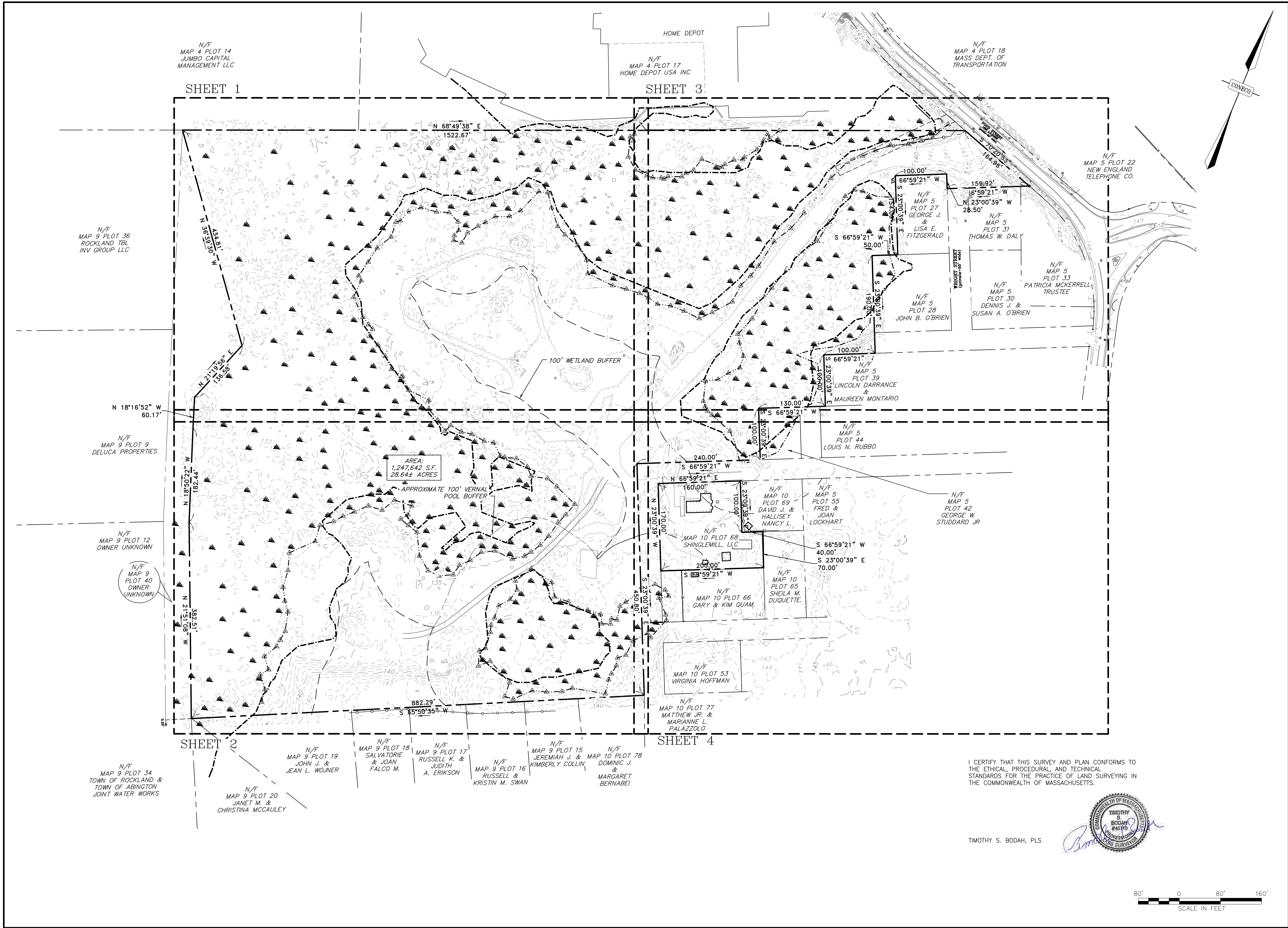
NOTES & LEGEND

SHINGLEMILL APARTMENTS
0 POND STREET
ROCKLAND, MASSACHUSETTS 02370

SITE PLANS

4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3191 OR 800-548-3395, FAX 508-697-5998
WEBSITE: www.coneco.com

DATE 05/14/2020	
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: JEN
SCALE: AS SHOWN	
PROJECT NO.	3395.1
SHEET NO.	2 OF 24



I CERTIFY THAT THIS SURVEY AND PLAN CONFORMS TO THE ETHICAL, PROCEDURAL, AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS.

TIMOTHY S. BODAH, PLS



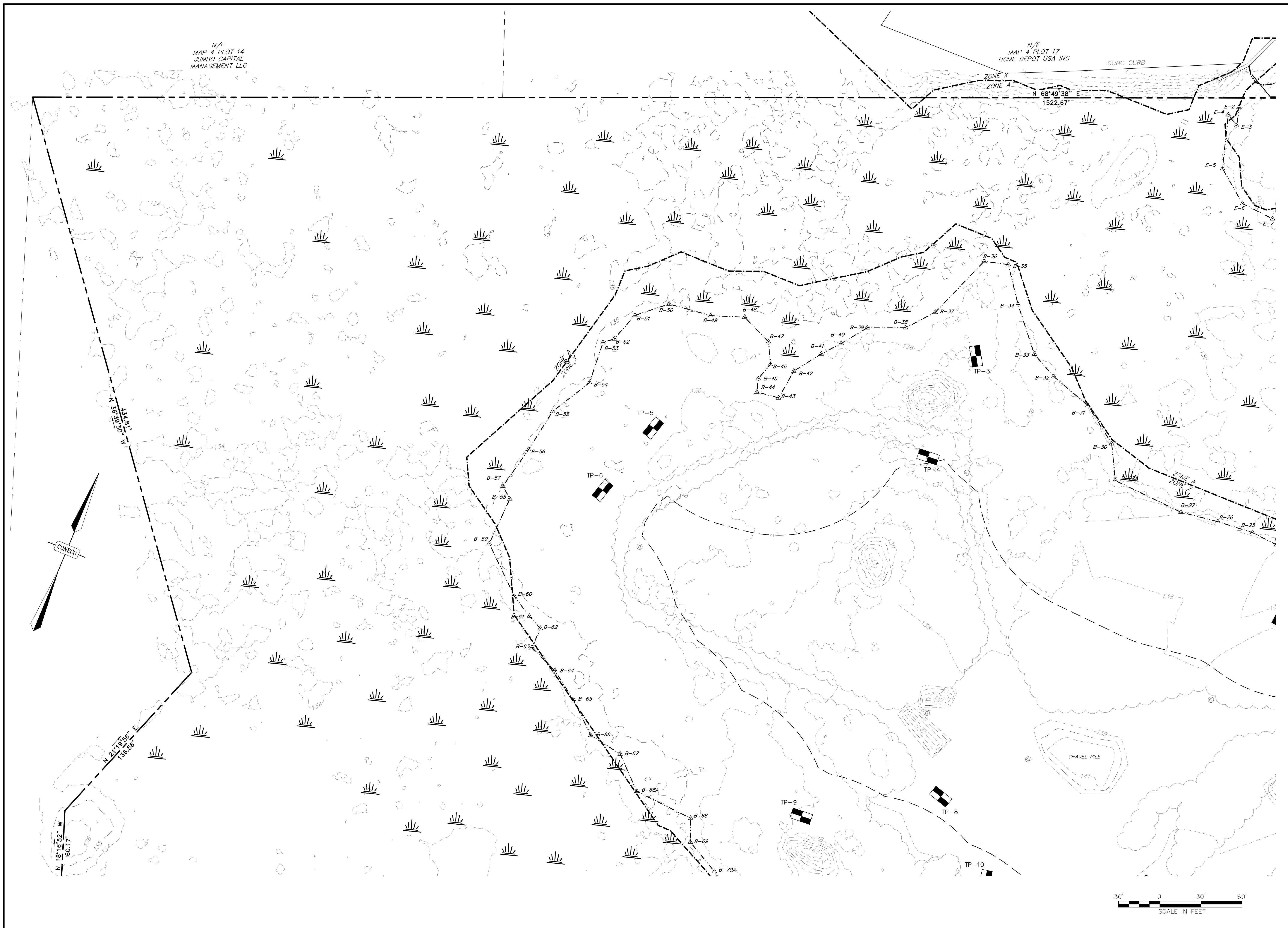
REVISIONS		NO.	
DESCRIPTION	DATE		

PROJECT	PREPARED FOR
SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324

DATE	DESIGNED	CHECKED	DRAFTED	SCALE	PROJECT NO.	SHEET NO.
05/14/2020	DJD	TSB	DJD	1" = 80'	3395.1	3

CONECO
Engineers & Scientists

1 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3100 FAX 508-697-5996
WWW.CONECO.COM



5/14/2020

[illegible]

SHINGLEMILL, LLC
4 FIRST STREET
BRIDGEWATER, MASSACHUSETTS 02324

EXISTING CONDITIONS
SHEET 1 OF 4

PROJECT: SHINGLEMILL APARTMENTS
POND STREET
ROCKLAND, MASSACHUSETTS 02370

SITE PLANS



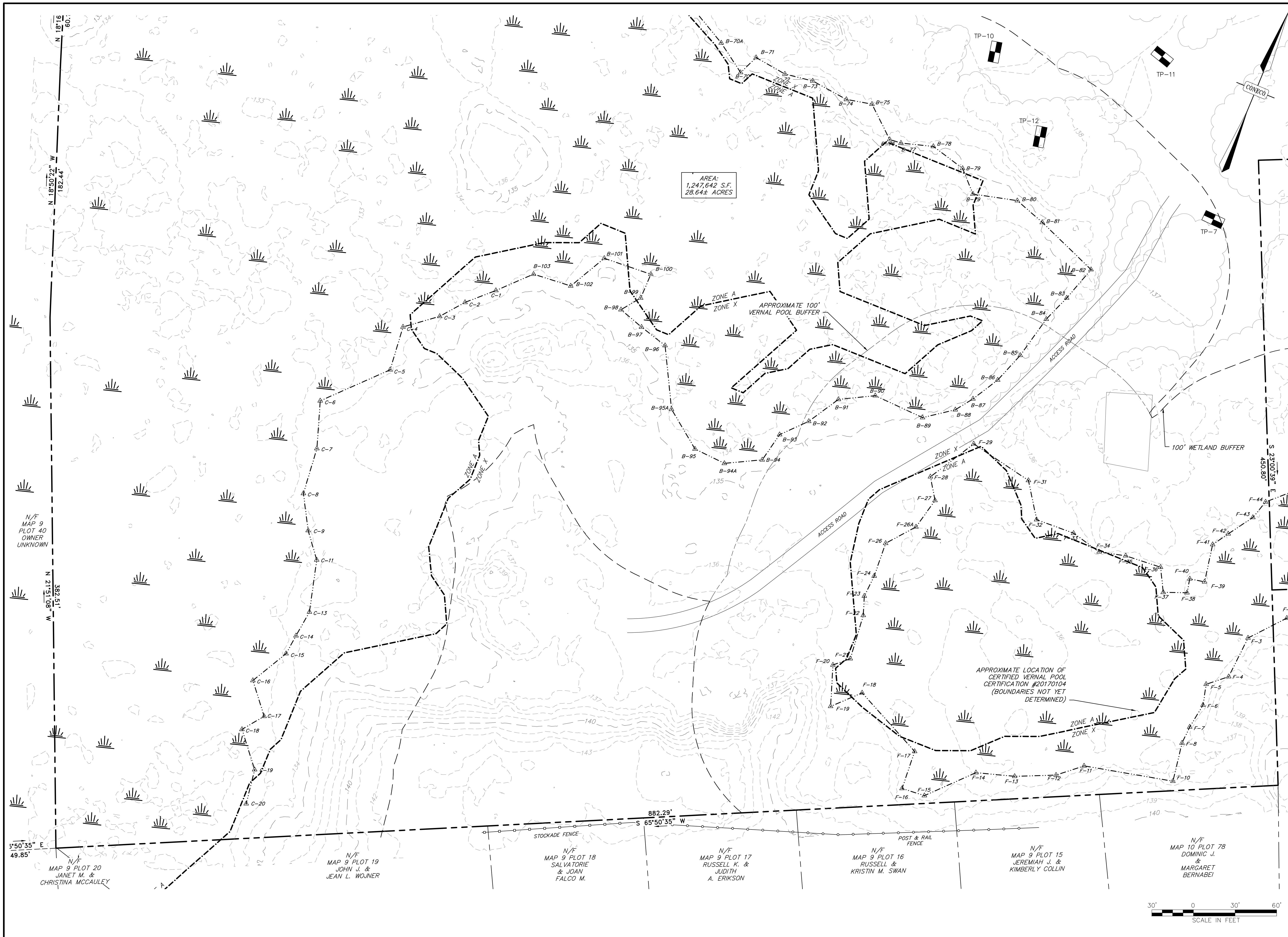
CONECO

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DATE		05/14/2020	
DESIGNED:	DJD	CHECKED:	TSB
DRAFTED:	DJD	IN CHARGE:	JEN
SCALE:		1" = 30'	
PROJECT NO.		3395.1	
SHEET NO.			

SHEET NO. **4**
OF 24



05/14/2020

[illegible]

SHINGLEMILL, LLC
4 FIRST STREET
BRIDGEWATER, MASSACHUSETTS 02324

EXISTING CONDITIONS
SHEET 2 OF 4

DEPT FOR:

SHINGLEMILL APARTMENTS
POND STREET
ROCKLAND, MASSACHUSETTS 02370

SITE PLANS

PROJECT:

PLAN SET:



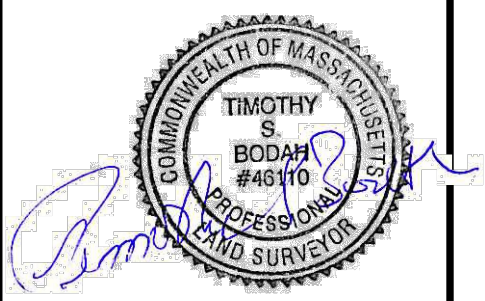
CONECO
Engineers & Scientists

4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3191 OR 800-549-1355; FAX 508-697-5969
WEBSITE: www.coneco.com

DATE		05/14/2020	
DESIGNED: DJD		CHECKED: TSB	
DRAFTED: DJD		IN CHARGE: JEN	
SCALE:		1" = 30'	
PROJECT NO.		3395.1	
SHEET NO.			

SHEET NO.

5
OF 24

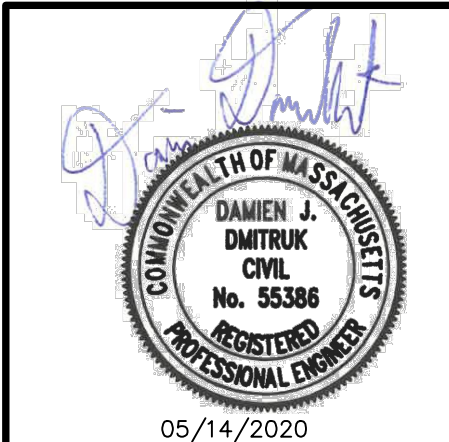
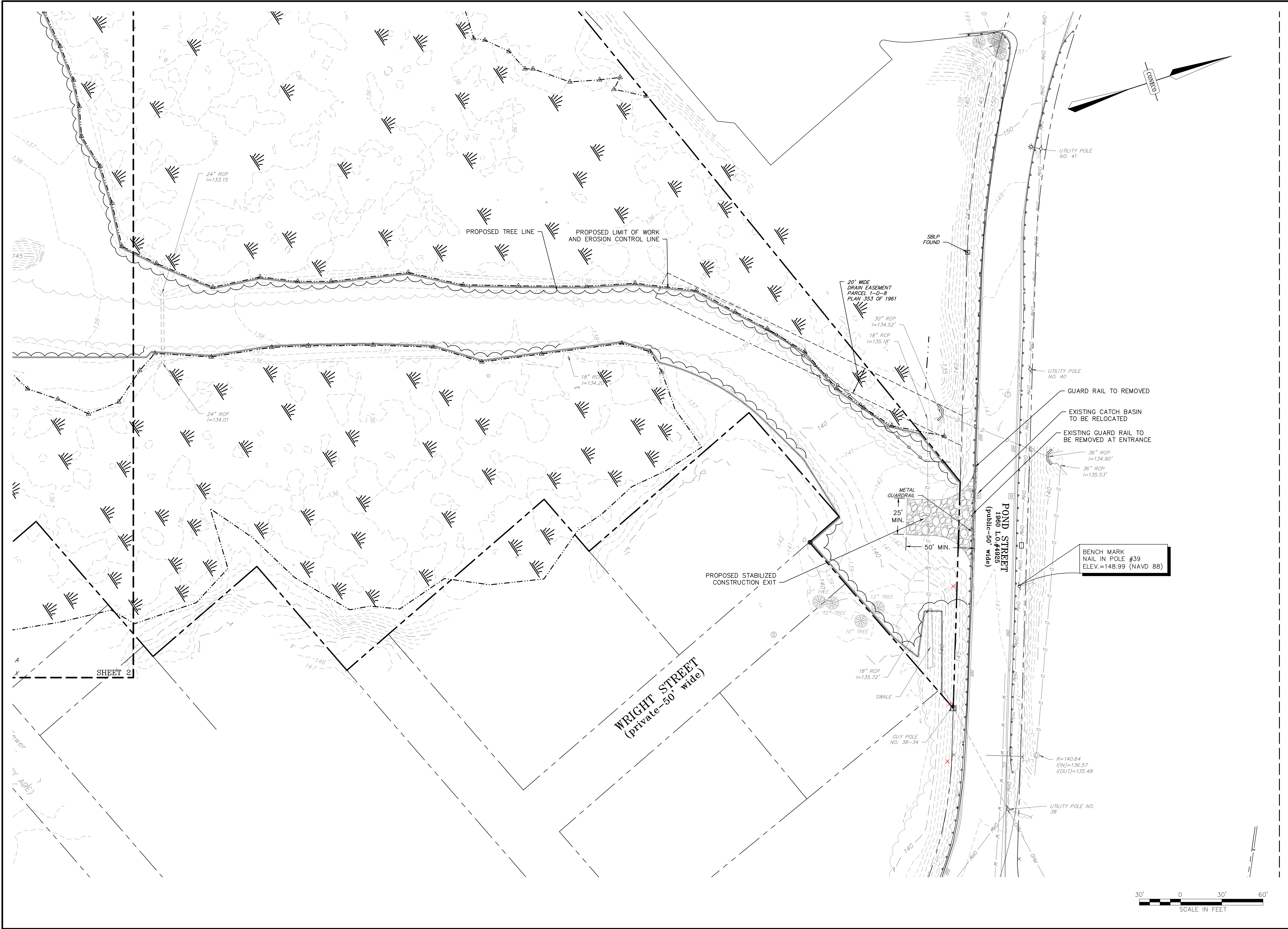


PROJECT: SHINGLEMILL APARTMENTS
POND STREET
ROCKLAND, MASSACHUSETTS 02370

SITE PLANS

PLAN SET:

 CONECO <i>Engineers & Scientists</i> 4 FIRST STREET, BROADWATER, MASSACHUSETTS 02324 PHONE 508-697-3191 OR 800-546-3355 FAX 508-697-5986 WEBSITE: www.coneco.com	
DATE	05/14/2020
DESIGNED: DJD	CHECKED: TSB
DRAFTED: DJD	IN CHARGE: JEN
SCALE:	1" = 30'
PROJECT NO.	3395.1
SHEET NO.	7 OF 24



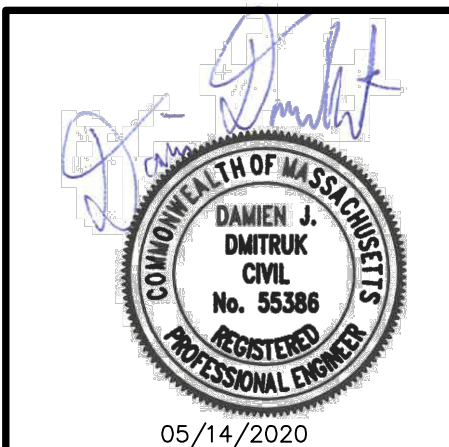
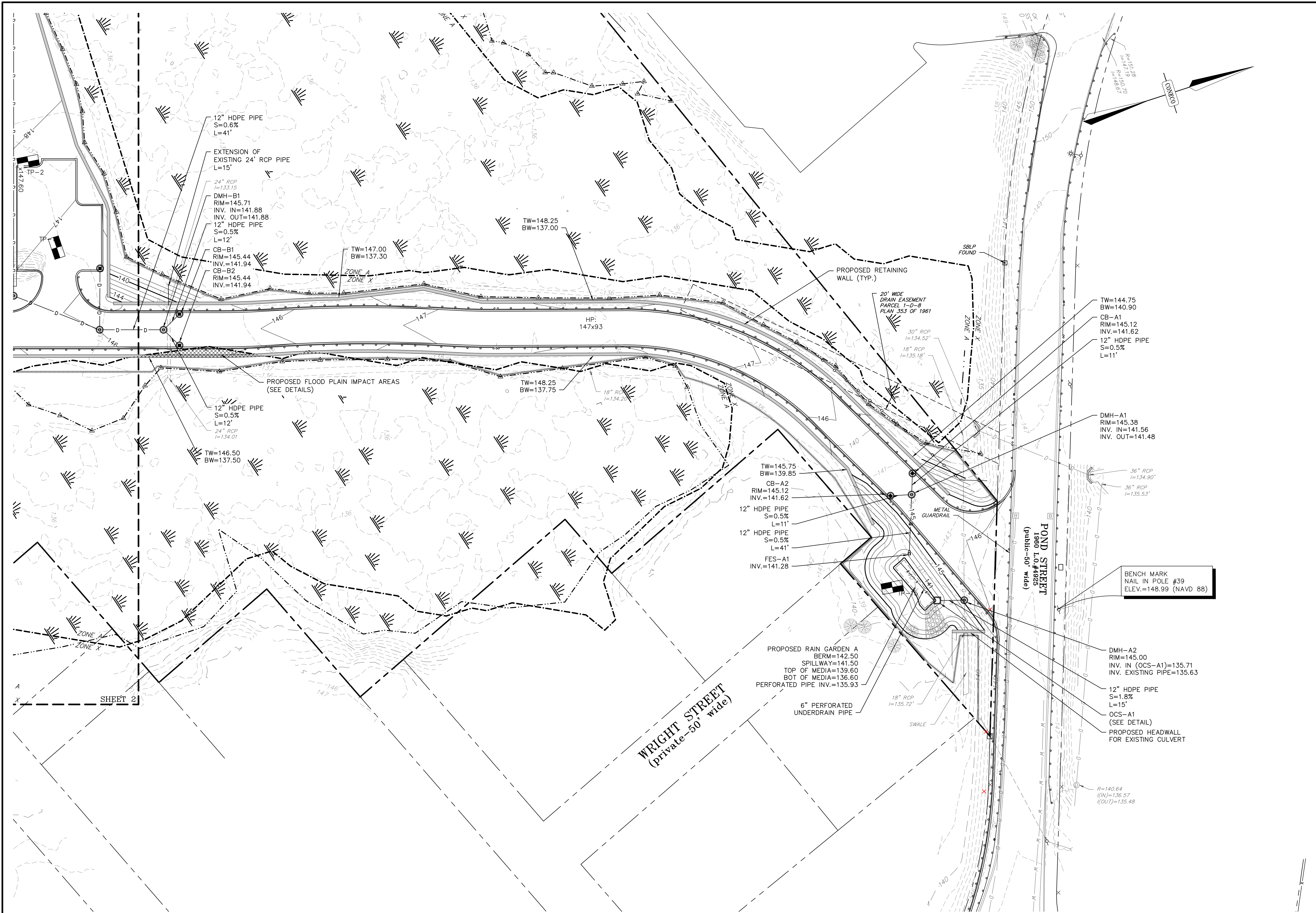
REVISIONS		DR/CK
NO.	DATE	DESCRIPTION

SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324	EROSION CONTROL PLAN SHEET 1 OF 2
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SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	SITE PLANS
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CONECO
Engineers & Scientists
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3131 FAX 508-697-5996
WEBSITE: www.coneco.com

DATE	05/14/2020
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: JEN
SCALE:	1" = 30'
PROJECT NO.	3395.1
SHEET NO.	9



NO.	DATE	DESCRIPTION	DR/CK

SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324	GRADING AND DRAINAGE PLAN SHEET 1 OF 2
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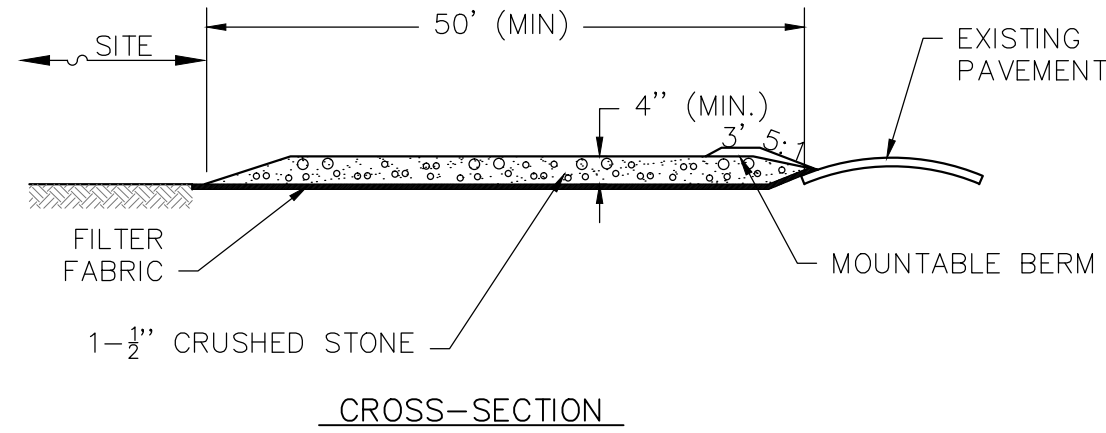
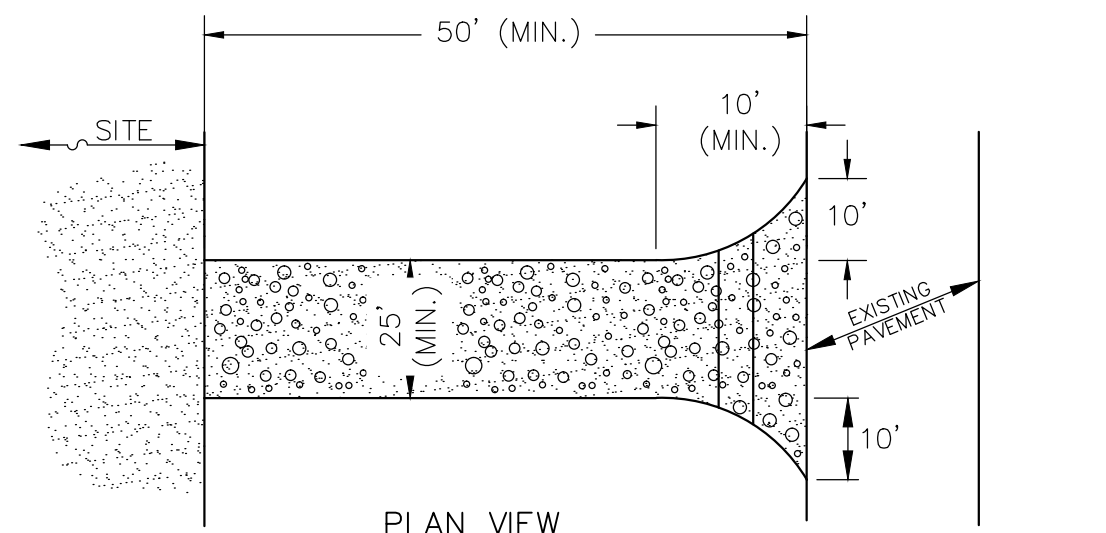
SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	SITE PLANS
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SCALE:	1" = 30'
PROJECT NO.	3395.1
SHEET NO.	13 OF 24



INFILTRATION TRENCH C SUMMARY TABLE												
SYSTEM	TOTAL STORAGE VOLUME (C.F.)	APPROXIMATE FINISHED GRADE	TRENCH INFORMATION				CHAMBER INFORMATION					
			TOP ELEVATION	BOTTOM ELEVATION	MINIMUM LENGTH	MINIMUM WIDTH	INVERT	PIPE	TOP ELEVATION	BOTTOM ELEVATION	NUMBER OF UNITS	ADJUSTED COMBINED
PROPOSED 330XLHD	12,500	146.50 - 147.80	142.54	139.00	73'-6"	74'-0"	VARIES	VARIES	142.04	139.50	150	71'-6"

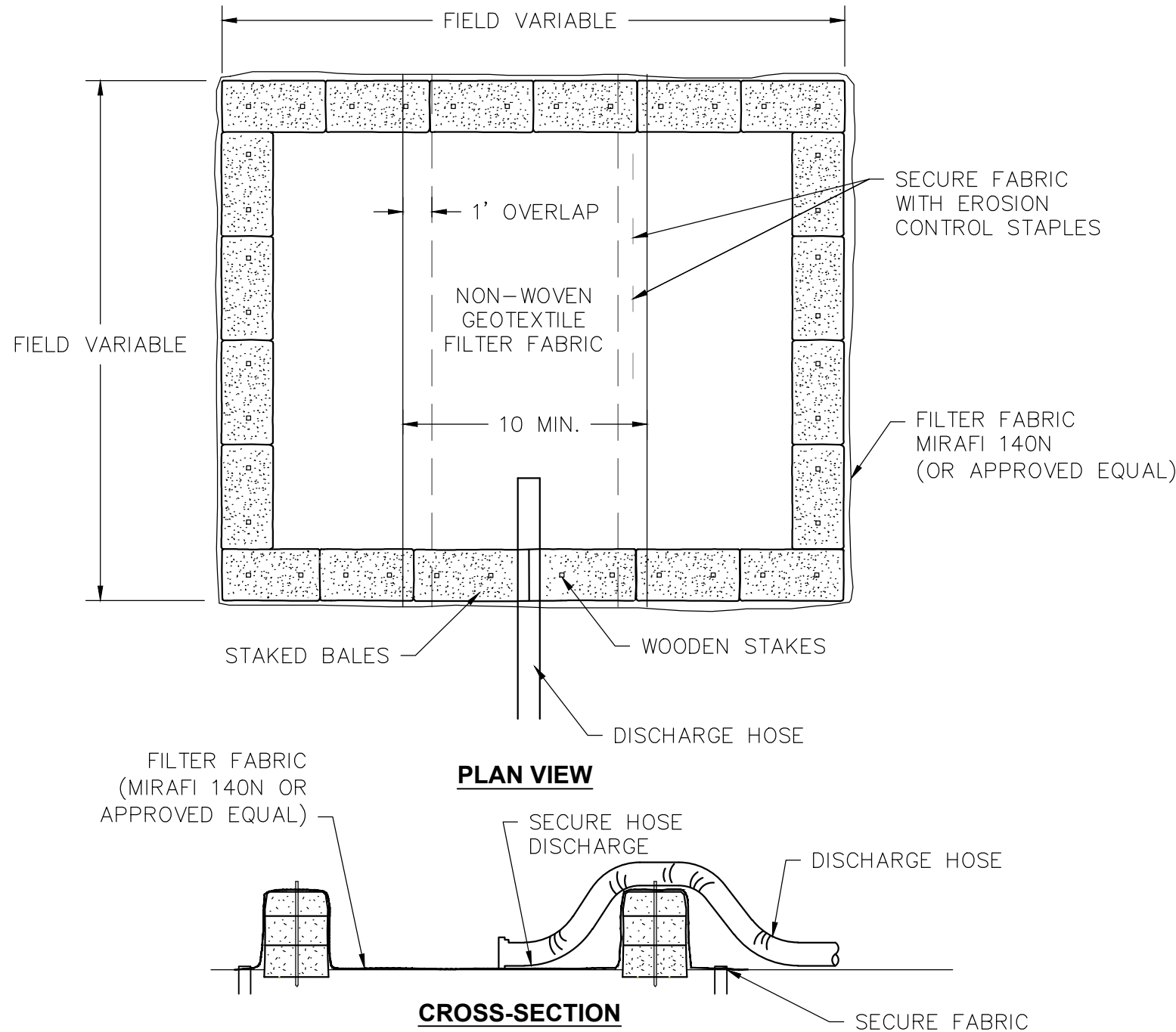


NOTES:

- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO REAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED.
- PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

STABILIZED CONSTRUCTION EXIT

N.T.S.

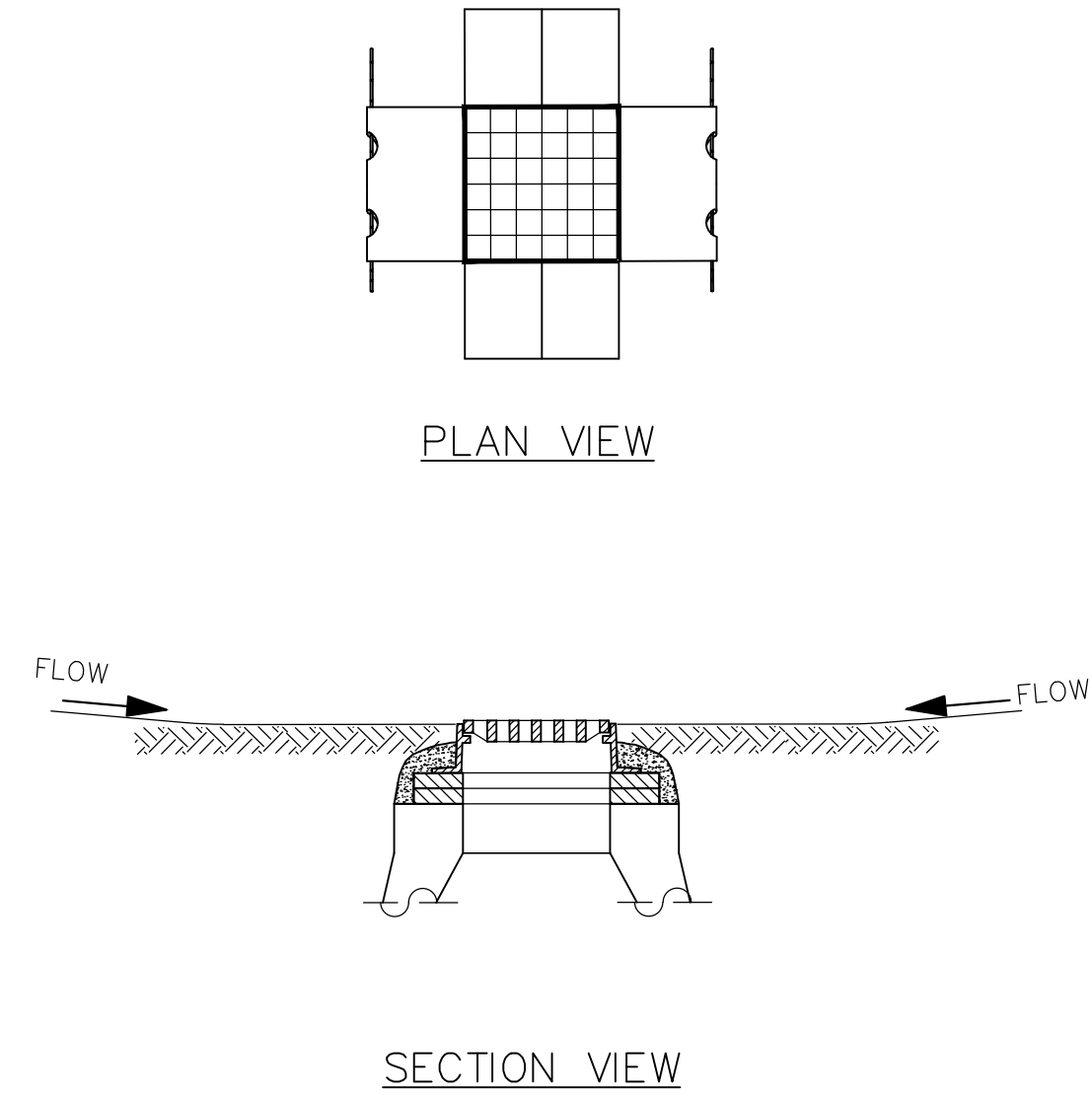


NOTES:

- NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
- THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
- KEEP AS FAR FROM WETLANDS AS PRACTICAL.
- CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.

TYPICAL DEWATERING HAYBALE BASIN

N.T.S.

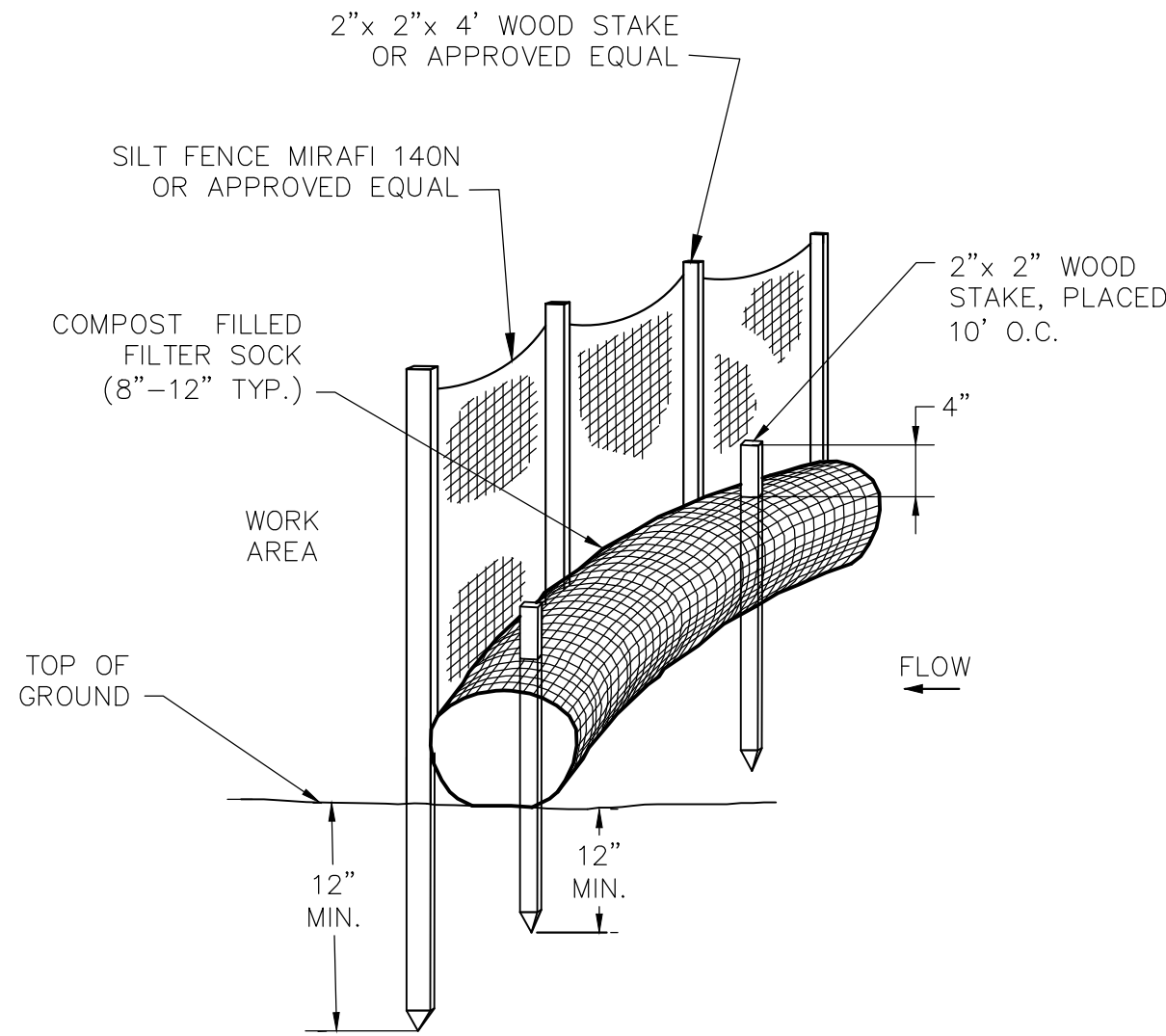


NOTES:

- INSTALL SILTSACK IN ALL PROPOSED CATCH BASINS UNTIL AFTER BINDER COURSE IS PLACED AND HAYBALES HAVE BEEN REMOVED.
- INSTALL SILTSACK IN ALL EXISTING CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK. SILT SACKS TO REMAIN UNTIL BINDER COURSE HAS BEEN PLACED AND EROSION CONTROLS HAVE BEEN REMOVED.
- GRATE TO BE PLACED OVER SILTSACK.
- SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

SILTSACK SEDIMENT TRAP

N.T.S.

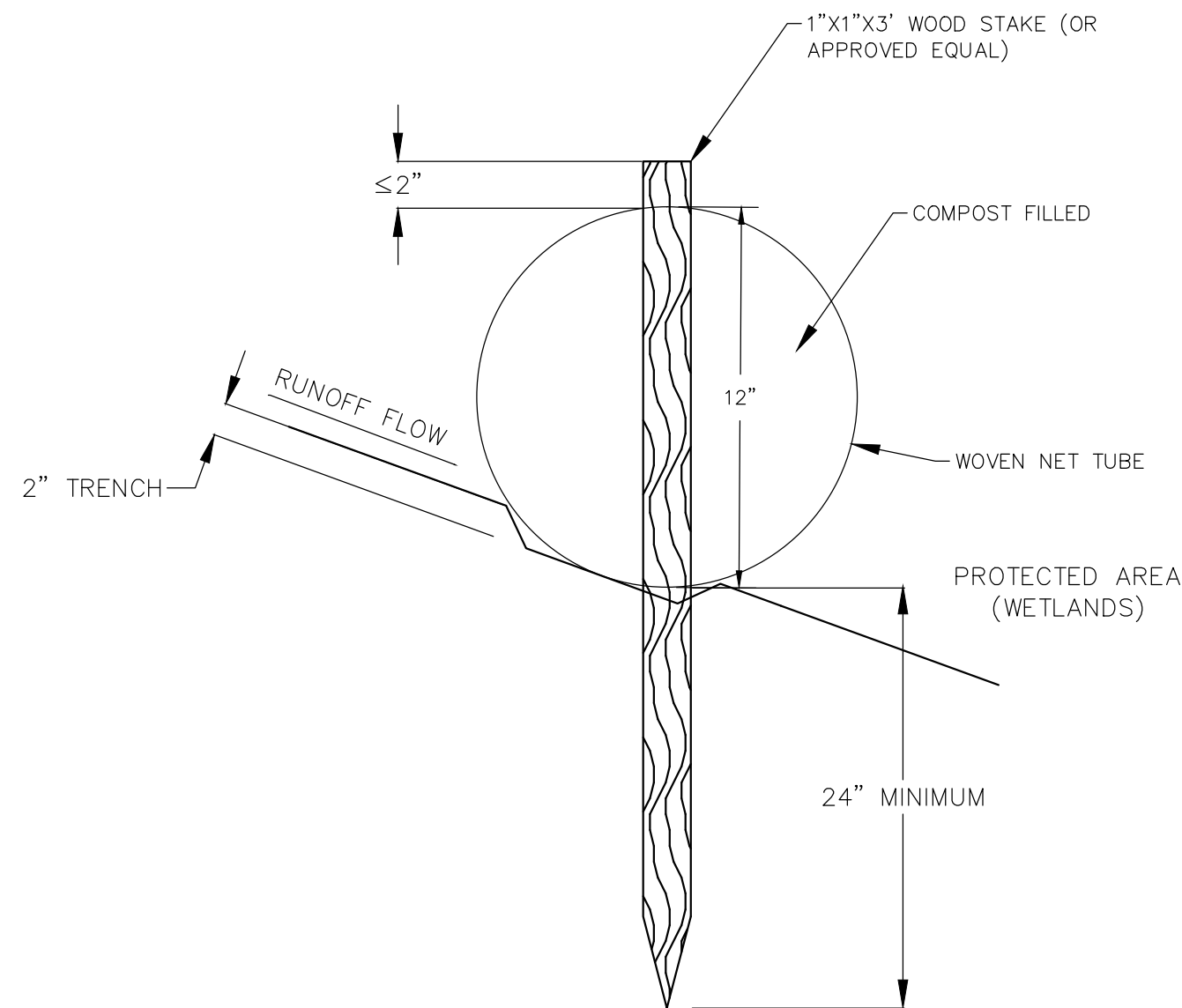


NOTES:

- SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
- TEMPORARY TO BE REMOVED BY CONTRACTOR. ALL OTHERS TO REMAIN IN PLACE UNLESS DIRECTED OTHERWISE BY ENGINEER.
- IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

EROSION CONTROL BARRIER

N.T.S.

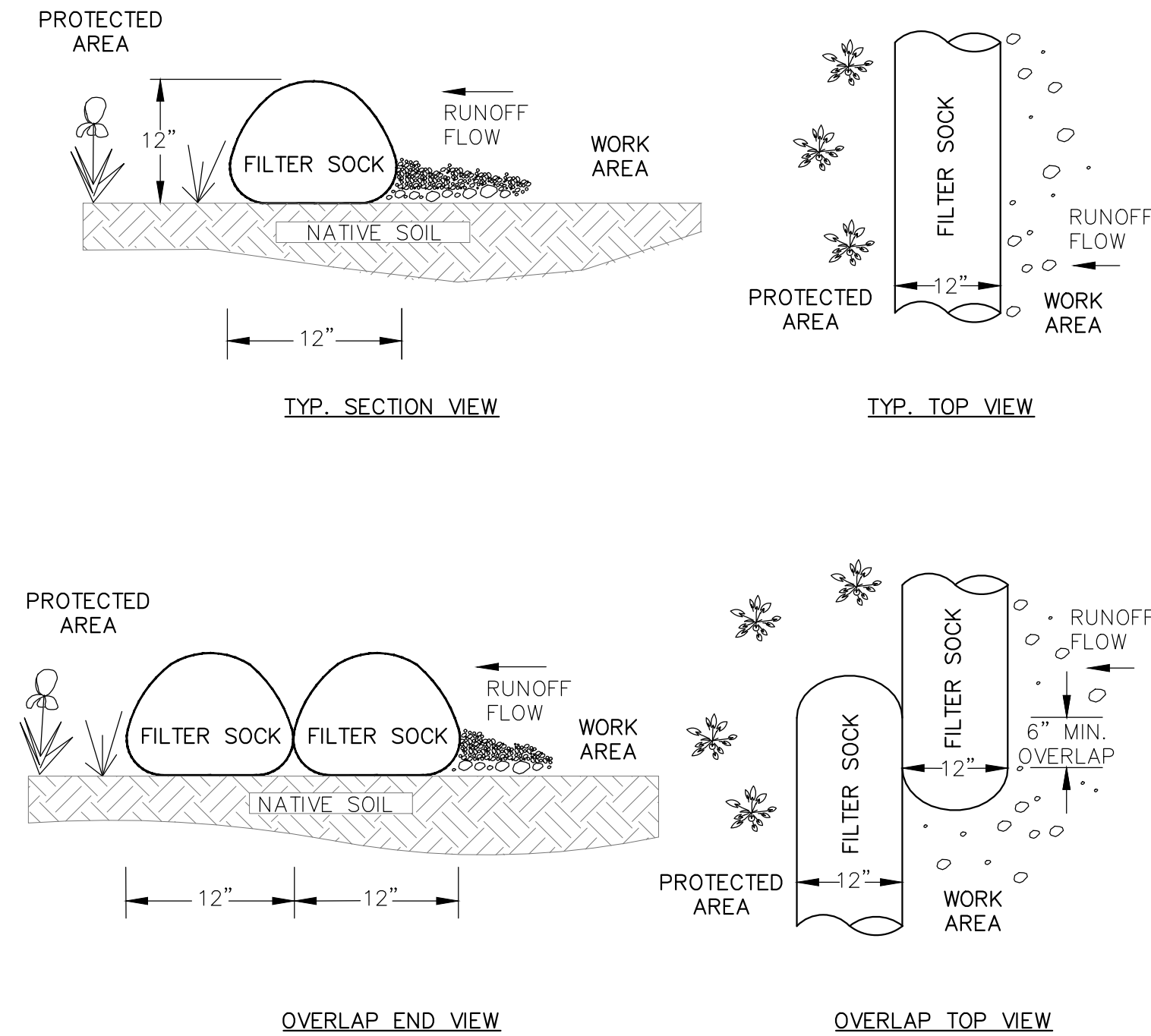


NOTES:

- ENDS OF WATTLE SHALL BE TURNED UP THE SLOPE, SO AS TO RETAIN WATER AND PREVENT ITS RELEASE FROM THE END OF THE WATTLE.
- WATTLES TO BE SECURED BY WOODEN STAKES SPACED EVERY 5' ACROSS THE LENGTH OF THE WATTLE. STAKE CLOSER AS NEEDED.
- A STAKE SHALL BE PLACED WITHIN 2' OF THE END OF THE WATTLE.

COMPOST SOCK STAKING

N.T.S.

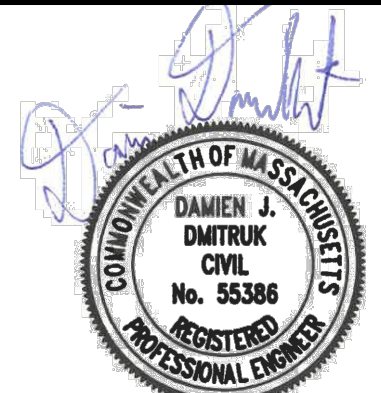


NOTES:

- EACH FILTER SOCK SHALL CONSIST OF COMPOST MATERIAL WRAPPED IN BURLAP. COMPOST MATERIAL AND BURLAP CASING SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PAY FOR COMPOST MATERIAL TESTING IF REQUIRED.
- FILTER SOCKS SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
- WHEN JOINING TWO WATTLES, TIGHTLY ABUT BOTH ENDS OR OVERLAP THE WATTLES APPROXIMATELY 12". IF WATTLES ARE JOINED BY ABUTTING THE ENDS, TIE THE ENDS TOGETHER USING HEAVY TWINE OR PLASTIC LOCKING TIES.

12" DIA. COMPOST FILTER SOCK DETAIL

N.T.S.



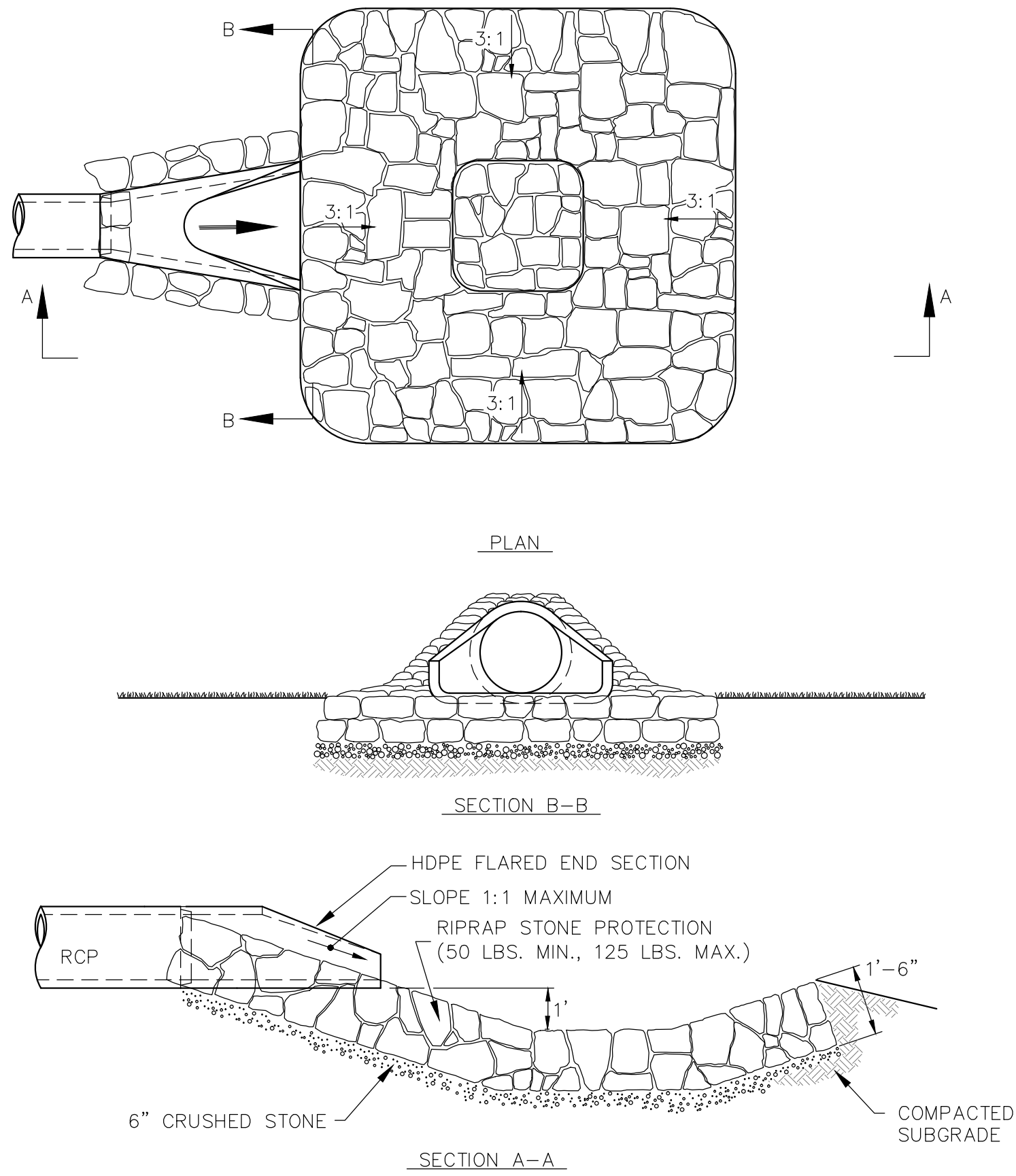
NO.	DATE	DESCRIPTION	DR/CK

PROJECT:	SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324
PREPARED FOR:	SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324
DRAWING:	DETAILS SHEET 1 OF 8

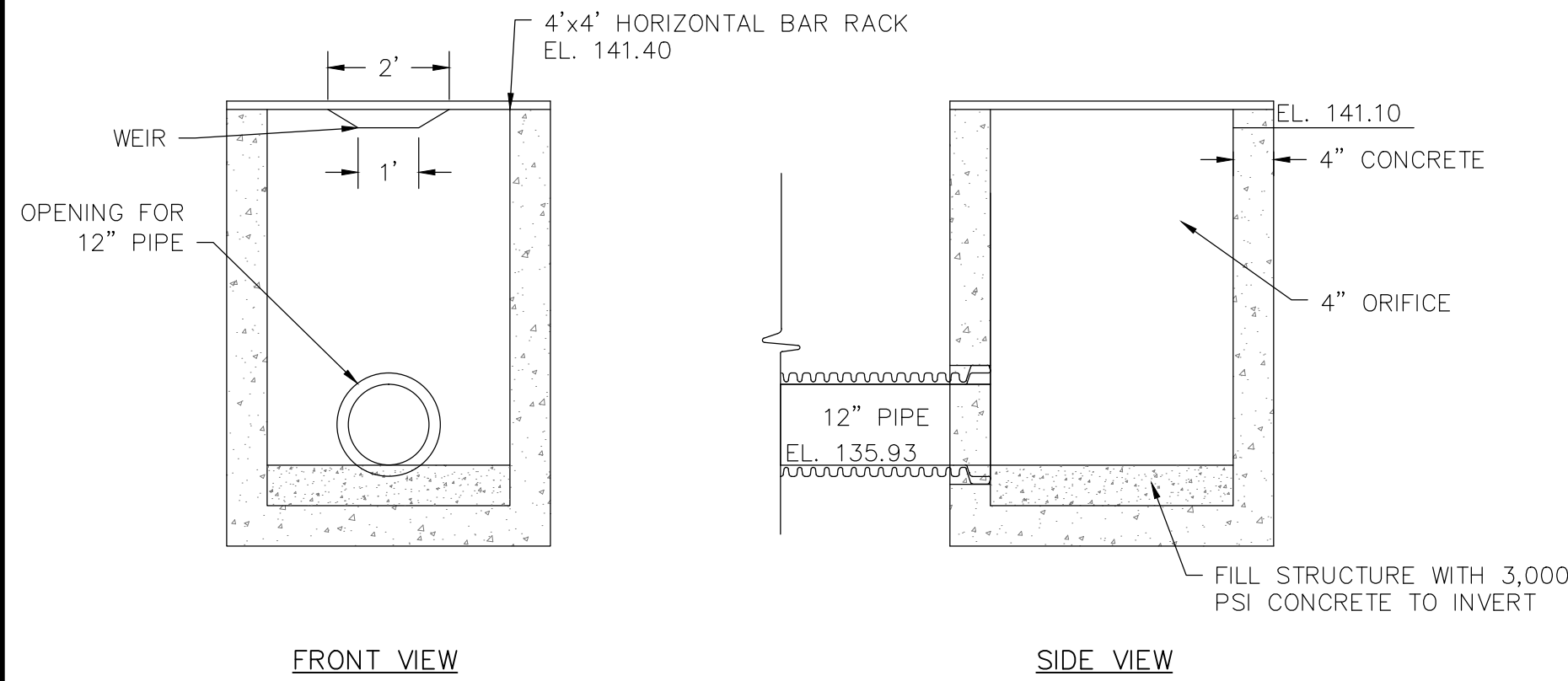
PROJECT:	SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370
PREPARED FOR:	SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370
PLAN SET:	SITE PLANS

CONECO
Engineers & Scientists
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
PHONE 508-697-3155 FAX 508-697-5996
WWW.CONECO.COM

DATE	05/14/2020
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: JEN
SCALE:	N.T.S.
PROJECT NO.	3395.1
SHEET NO.	17

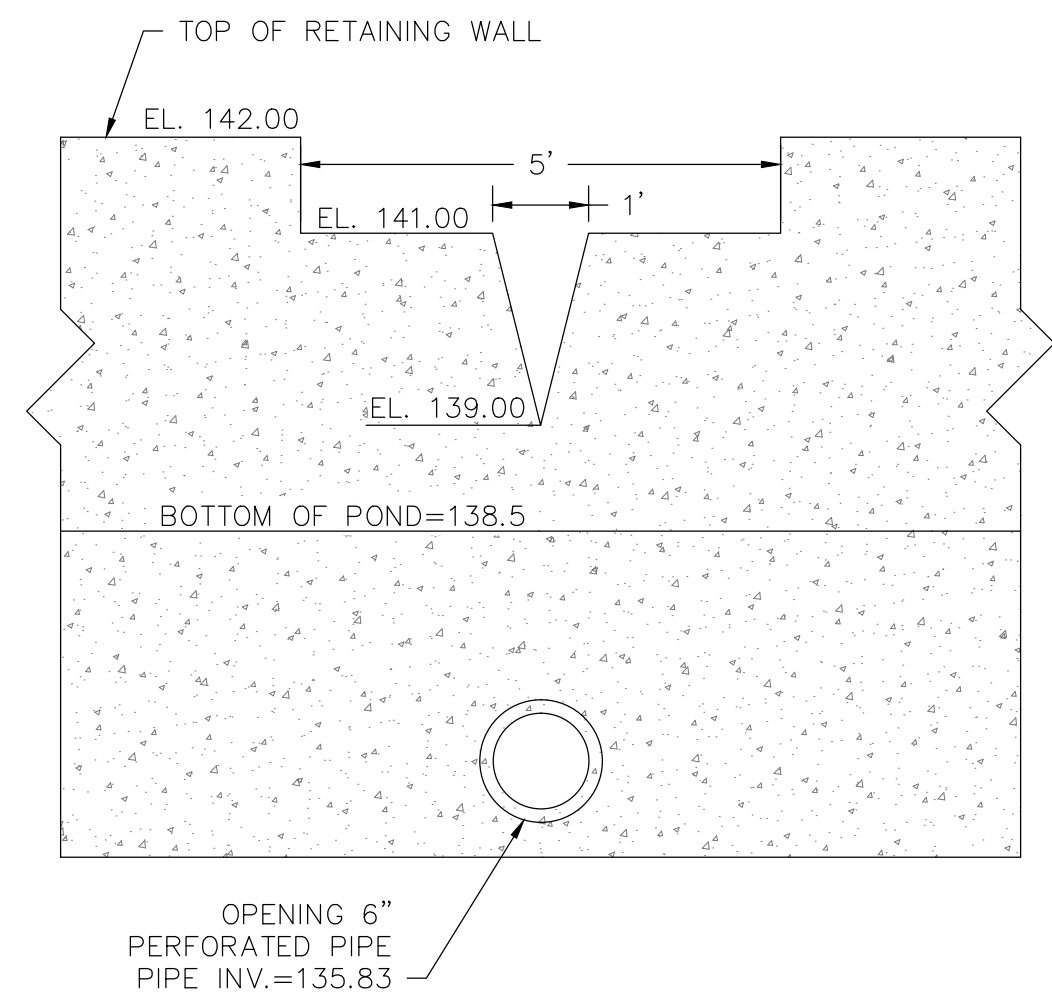


**FLARED END SECTION
W/ STONE PROTECTION & PLUNGE POOL**
N.T.S.



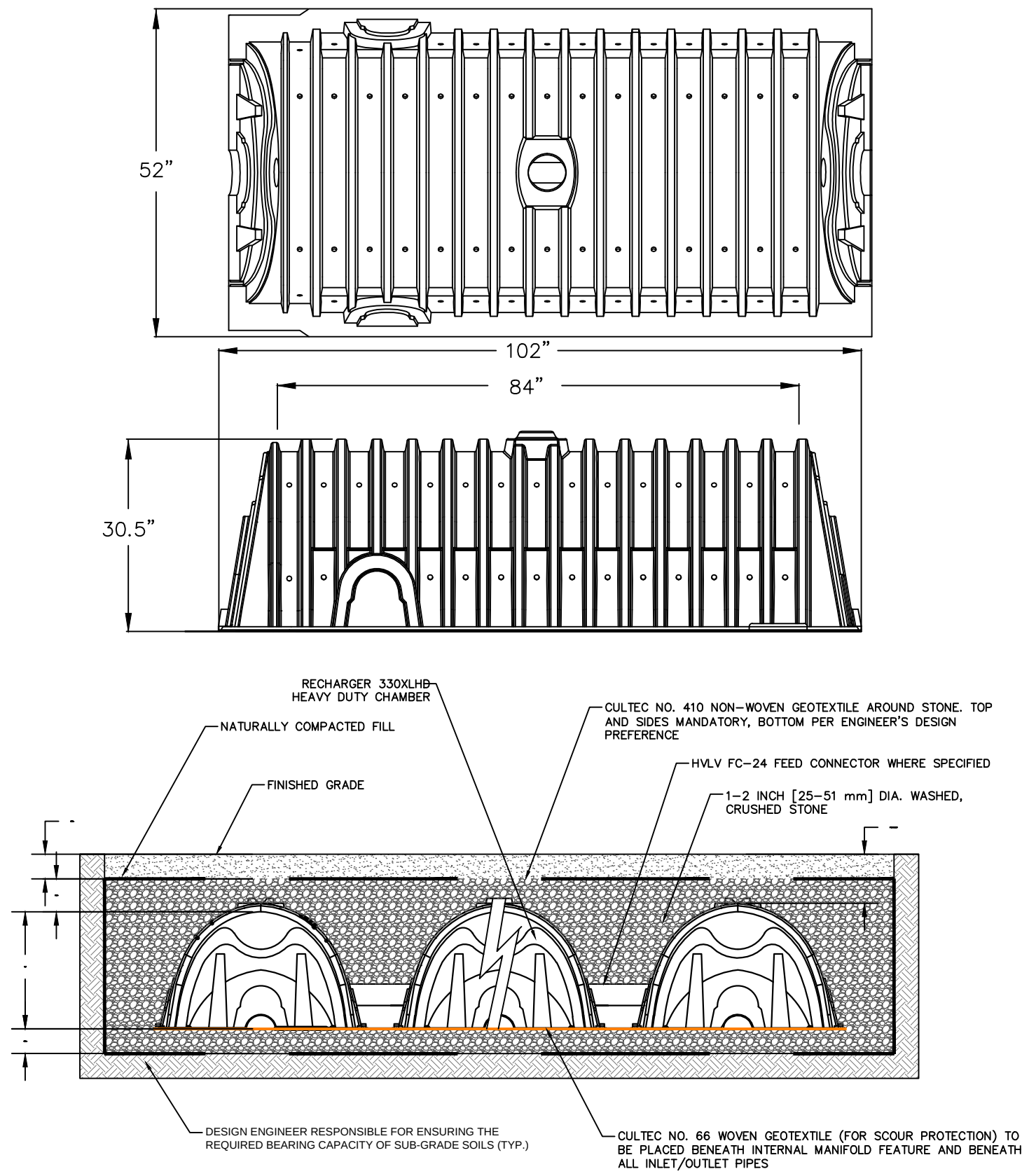
- NOTES:
1. OUTLET CONTROL STRUCTURES SHALL BE RATED FOR H-20 LOADING.
 2. CONTRACTOR IS RESPONSIBLE FOR BUOYANCY CALCULATIONS, ASSUMING STRUCTURE IS COMPLETELY SUBMERGED, AND WILL COMPENSATE TO ASSURE THE STRUCTURE WILL NOT BECOME BUOYANT.

OUTLET CONTROL STRUCTURE FOR RAIN GARDEN A (OCS-A1)
N.T.S.



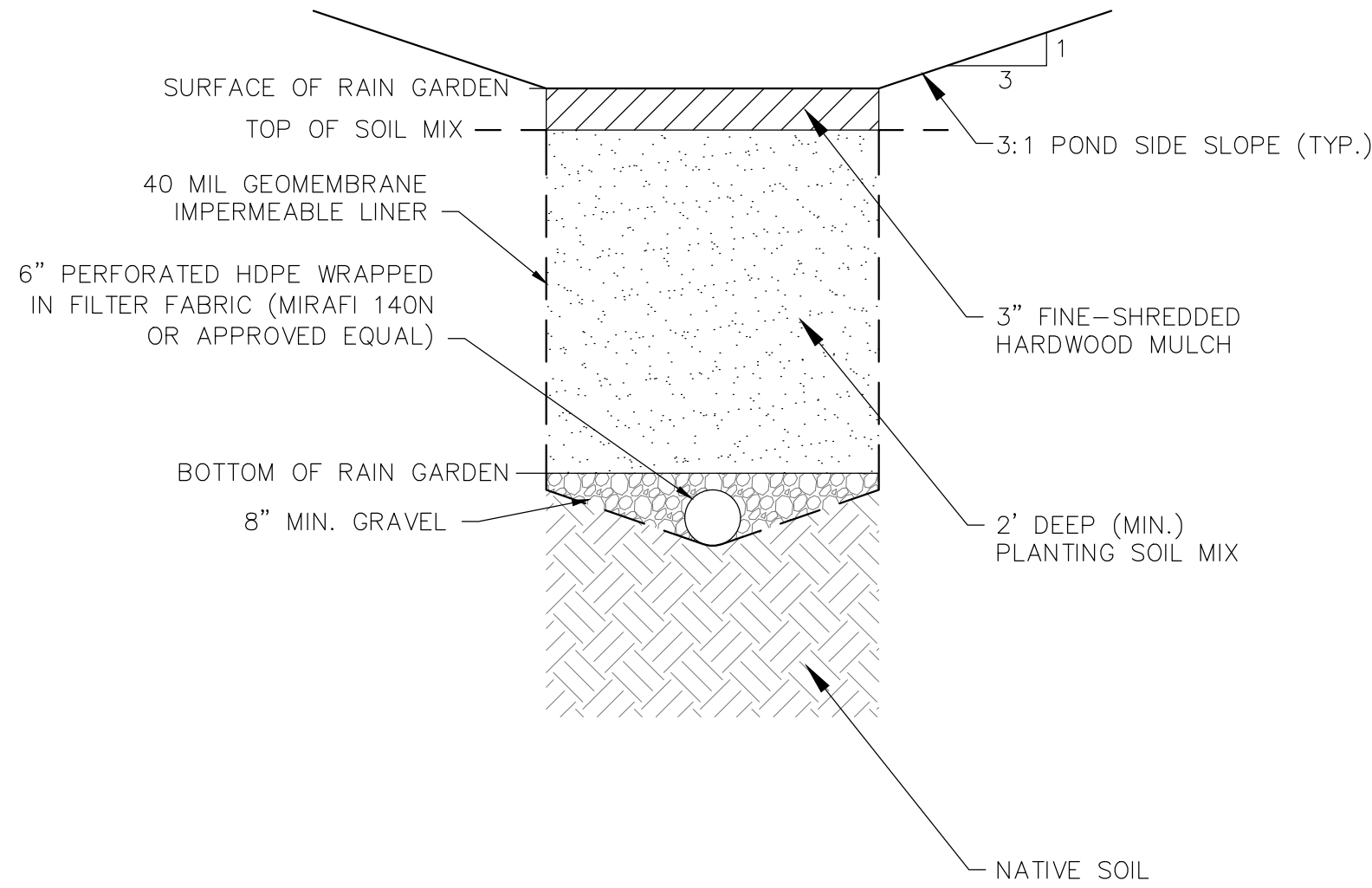
- NOTES:
1. OUTLET CONTROL STRUCTURE SHALL INTEGRATED INTO THE RETAINING WALL STRUCTURE(DESIGNED BY OTHERS).

OUTLET CONTROL STRUCTURE FOR RAIN GARDEN B (OCS-B1)
N.T.S.



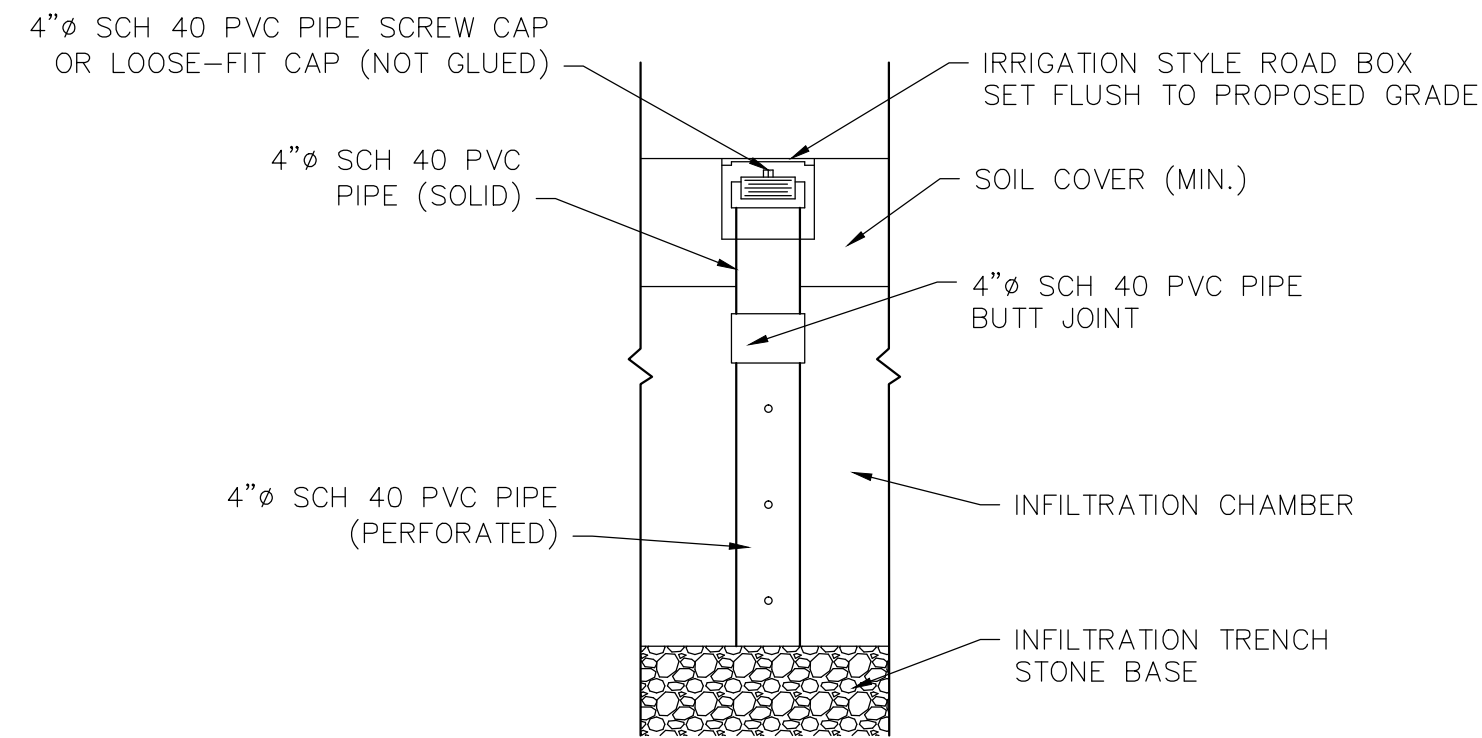
NOTE: INSTALL INSPECTION PORT TO GRADE WITH IRRIGATION STYLE ROAD BOX.

CULTEC RECHARGER 330XLHD
N.T.S.

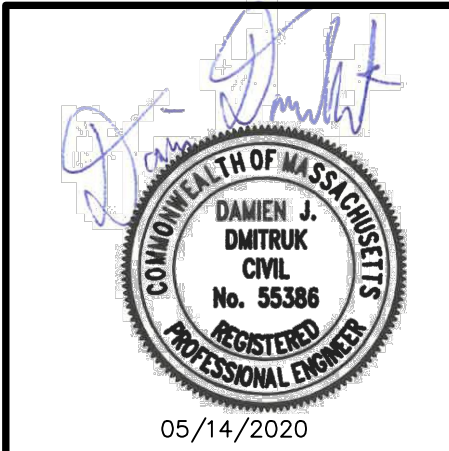


- NOTES:
1. THIS DETAIL WAS ADAPTED FROM SPECIFICATIONS PER THE MASSACHUSETTS STORMWATER HANDBOOK, VOLUME 2, CHAPTER 2, TREATMENT BMPs "BIORETENTION AREAS & RAIN GARDENS" GUIDELINE. THE CONSTRUCTION OF THE RAIN GARDEN, INCLUDING ENGINEERED MEDIA AND VEGETATION REQUIREMENTS, SHALL CONFORM TO THE SPECIFICATIONS SET IN THE STORMWATER HANDBOOK.

FILTER RAIN GARDEN
N.T.S.



INSPECTION PORT DETAIL
N.T.S.



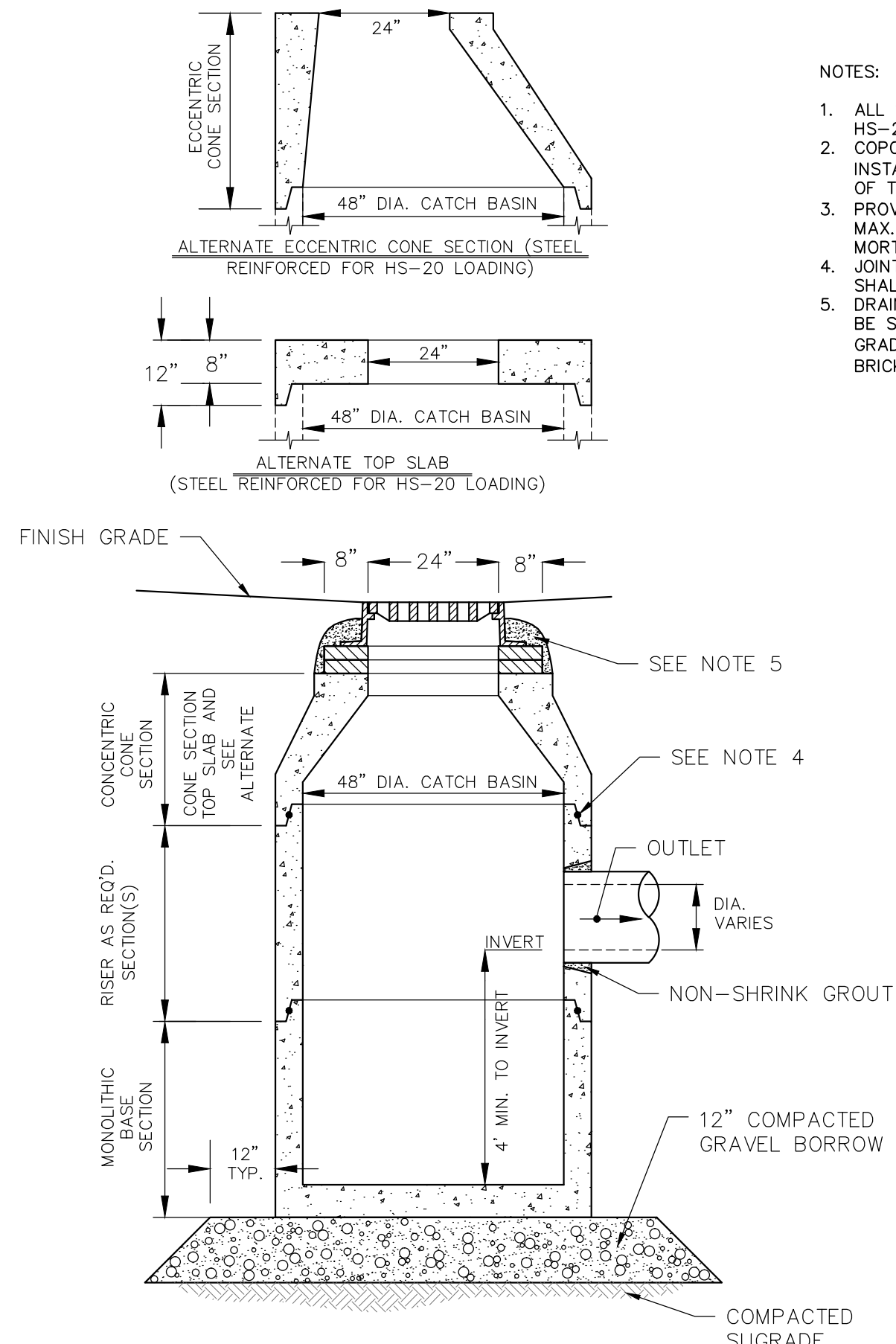
NO.	DATE	DESCRIPTION	DR/CK

SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324	DETAILS SHEET 2 OF 8
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SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	SITE PLANS
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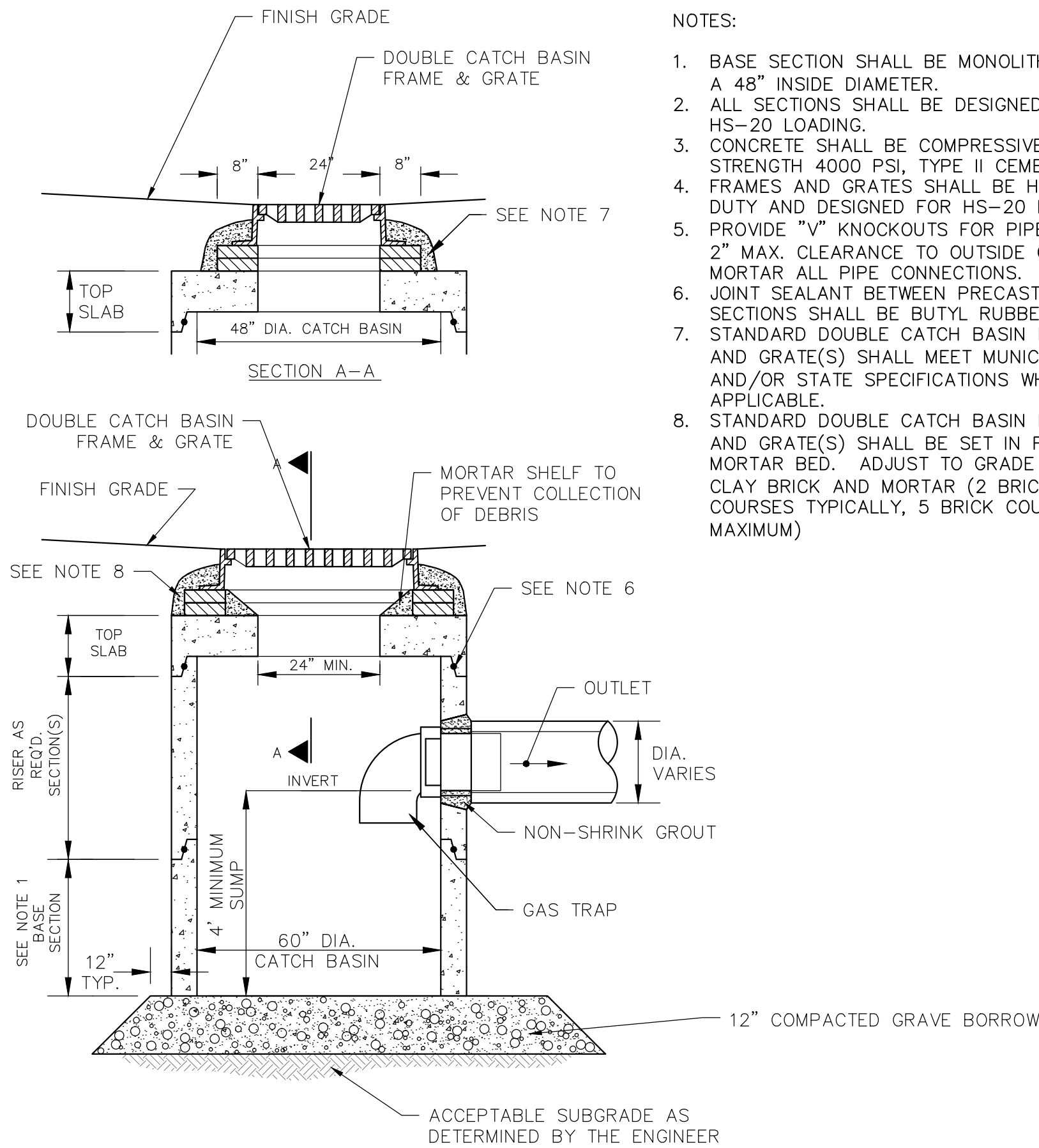


DATE	05/14/2020
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: JEN
SCALE:	N.T.S.
PROJECT NO.	3395.1
SHEET NO.	18



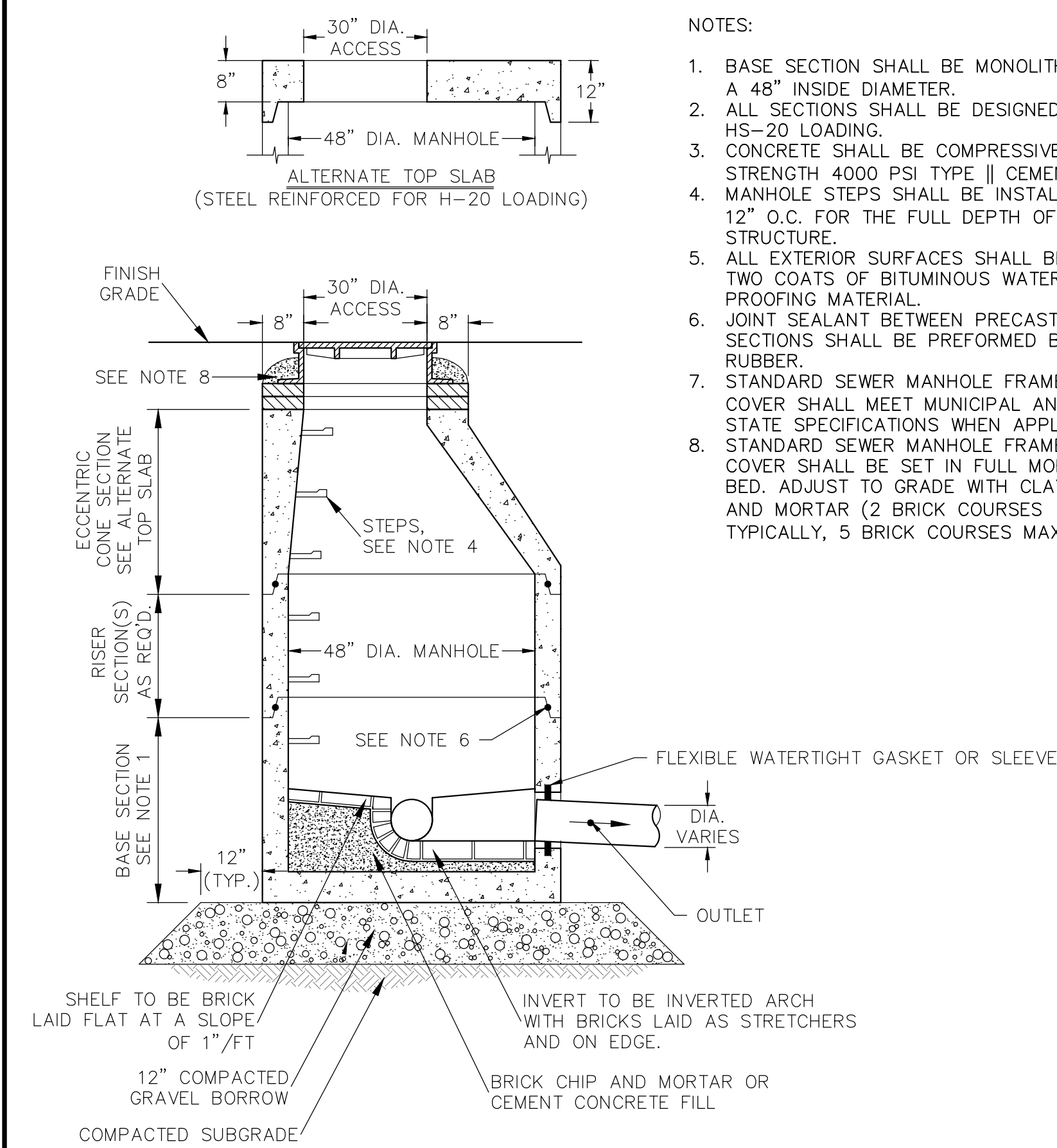
- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY)

CATCH BASIN (CB)
N.T.S.



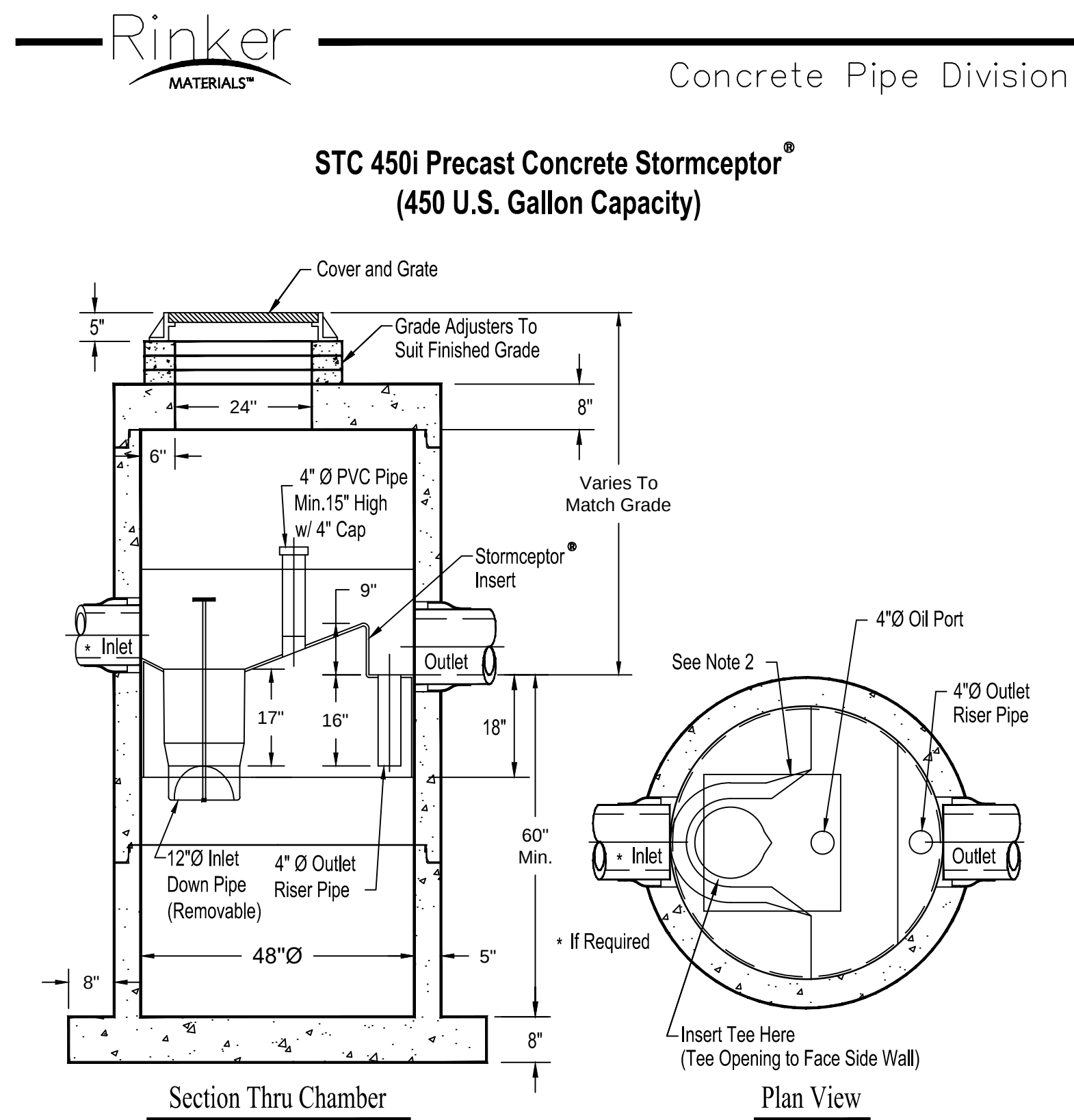
- NOTES:
1. BASE SECTION SHALL BE MONOLITHIC WITH A 48" INSIDE DIAMETER.
 2. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR HS-20 LOADING.
 5. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
 7. STANDARD DOUBLE CATCH BASIN FRAME AND GRATE(S) SHALL MEET MUNICIPAL AND/OR STATE SPECIFICATIONS WHEN APPLICABLE.
 8. STANDARD DOUBLE CATCH BASIN FRAME AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

DOUBLE GRATE CATCH BASIN (DCB) WITH TRAP
N.T.S.



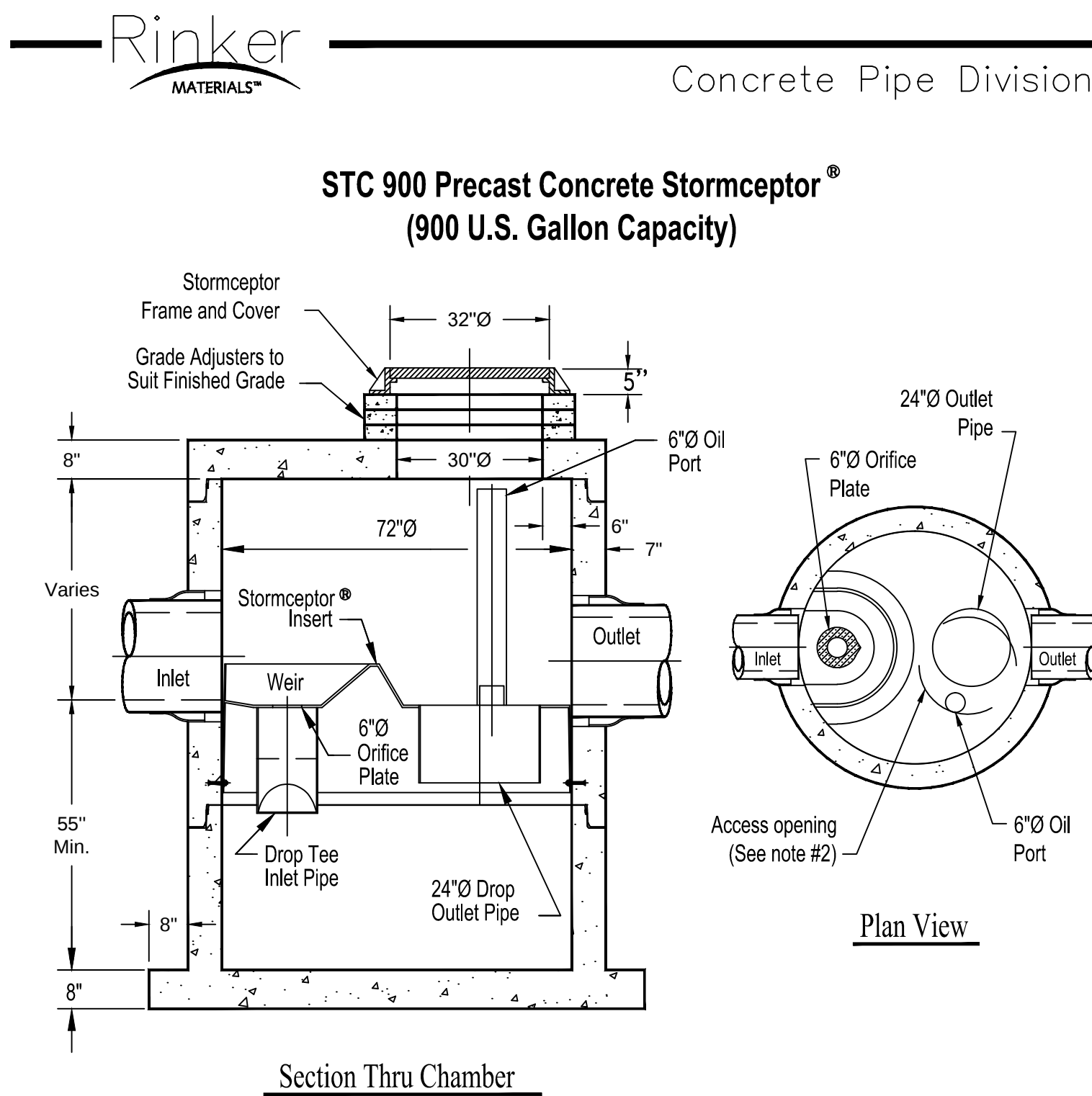
- NOTES:
1. BASE SECTION SHALL BE MONOLITHIC WITH A 48" INSIDE DIAMETER.
 2. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI TYPE II CEMENT.
 4. MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 5. ALL EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 7. STANDARD SEWER MANHOLE FRAME AND COVER SHALL MEET MUNICIPAL AND/OR STATE SPECIFICATIONS WHEN APPLICABLE.
 8. STANDARD SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

SANITARY SEWER MANHOLE (SMH)
N.T.S.



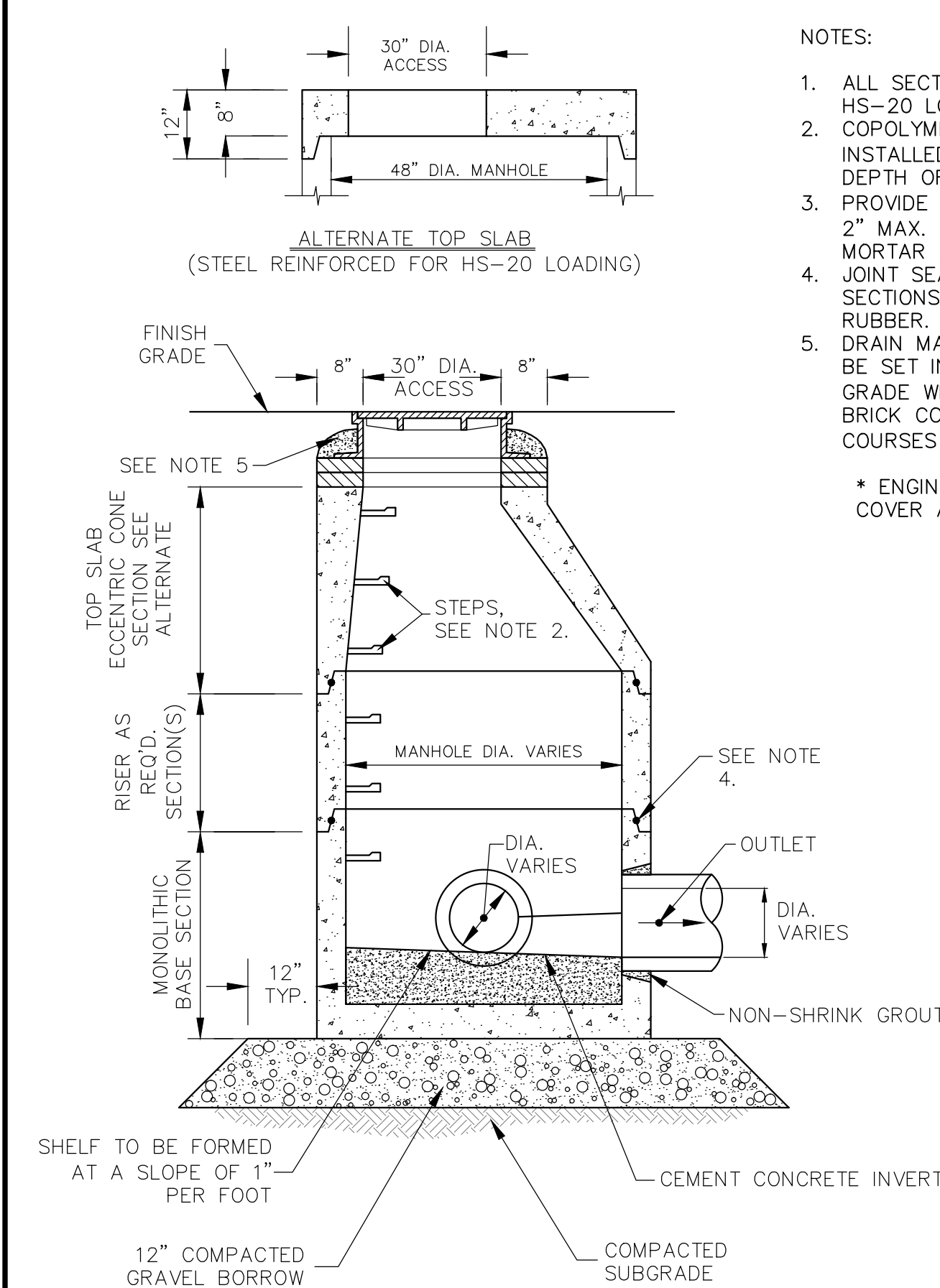
- Notes:
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 027



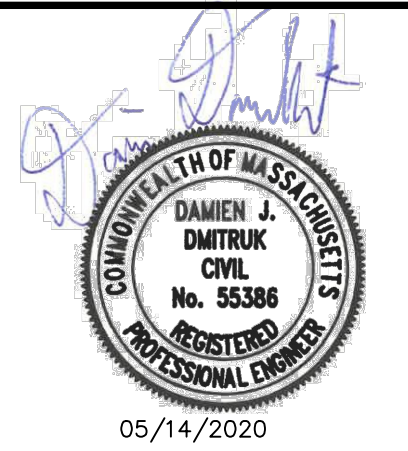
- Notes:
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 028



- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)
- * ENGINEER TO COORDINATE FRAME & COVER AND PIPE TYPE.

DRAIN MANHOLE (DMH)
N.T.S.



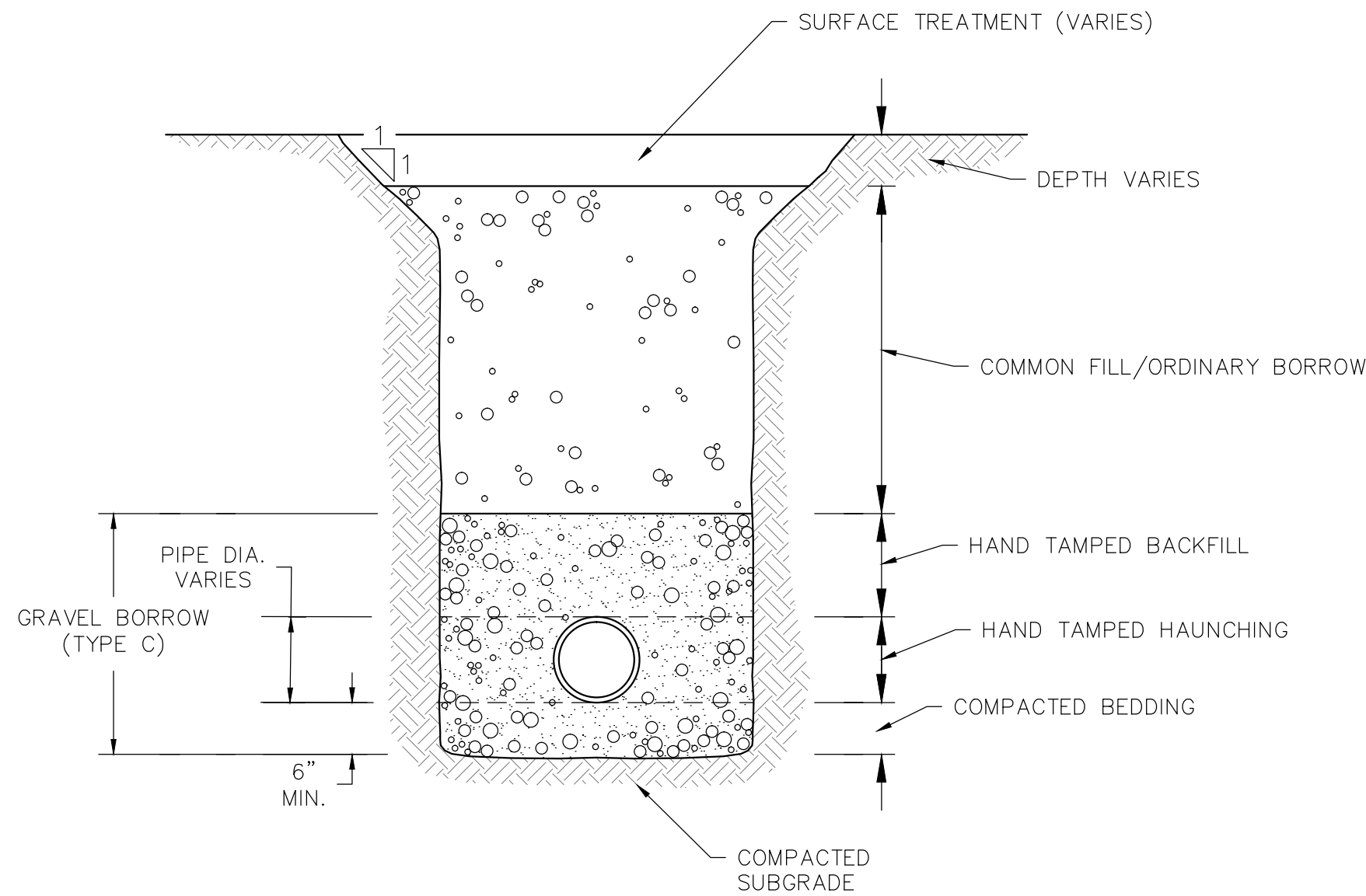
NO.	DATE	DESCRIPTION	DR/CHK

PREPARED FOR:	SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324
DRAWING:	DETAILS SHEET 3 OF 8

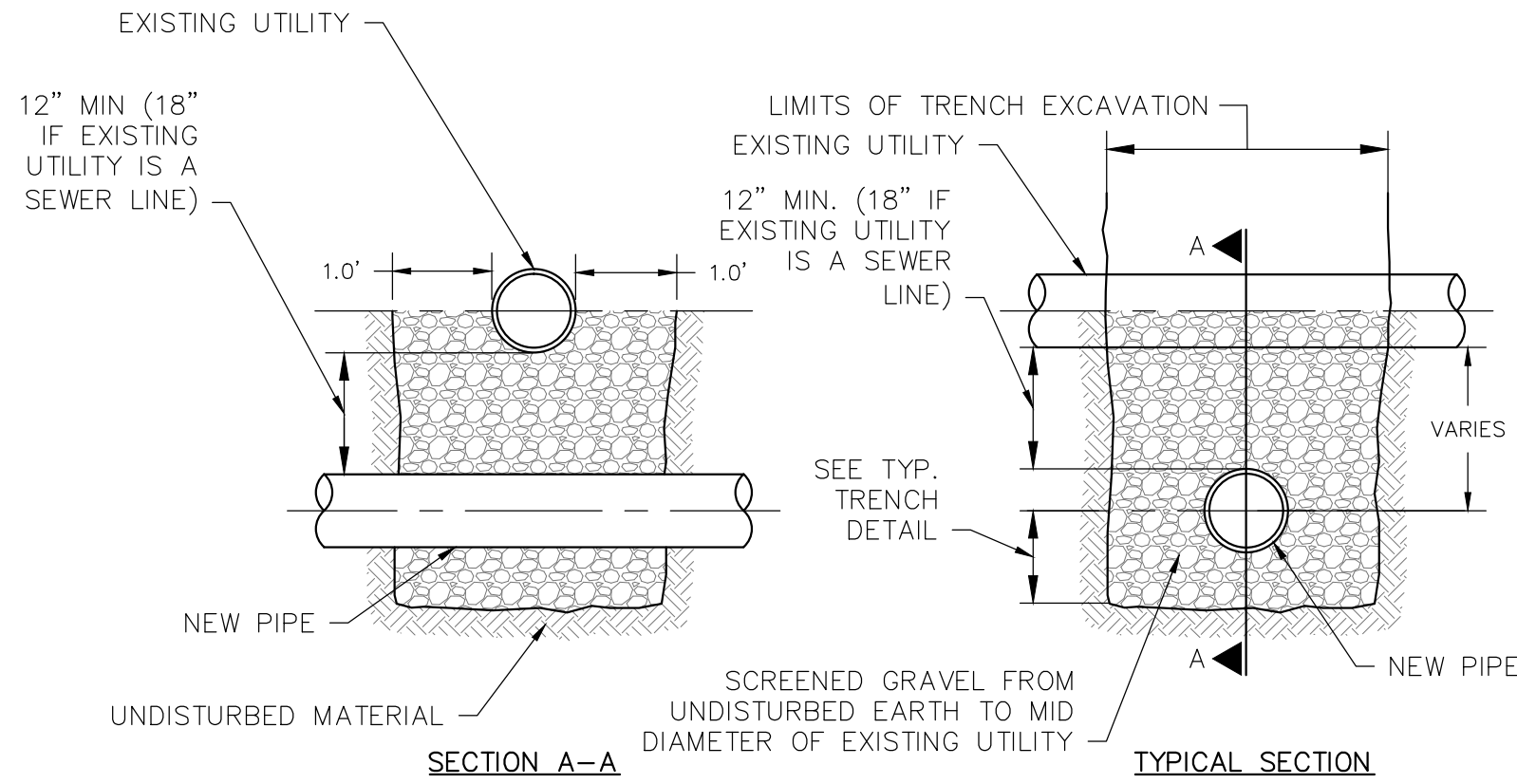
PROJECT:	SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370
PLAN SET:	SITE PLANS



DATE	05/14/2020
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: RRL
SCALE:	N.T.S.
PROJECT NO.	3395.1
SHEET NO.	19

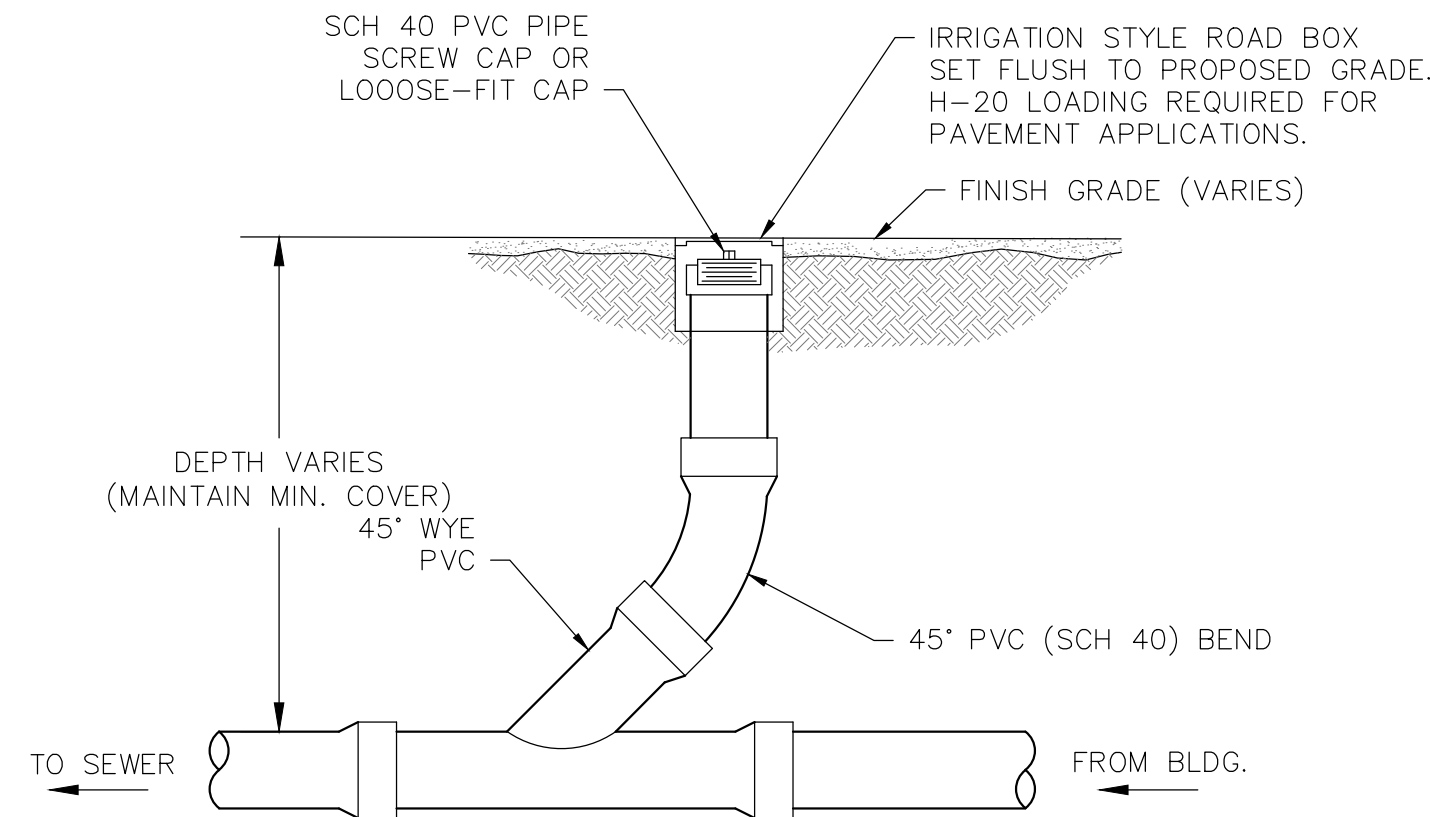


UTILITY TRENCH
N.T.S.

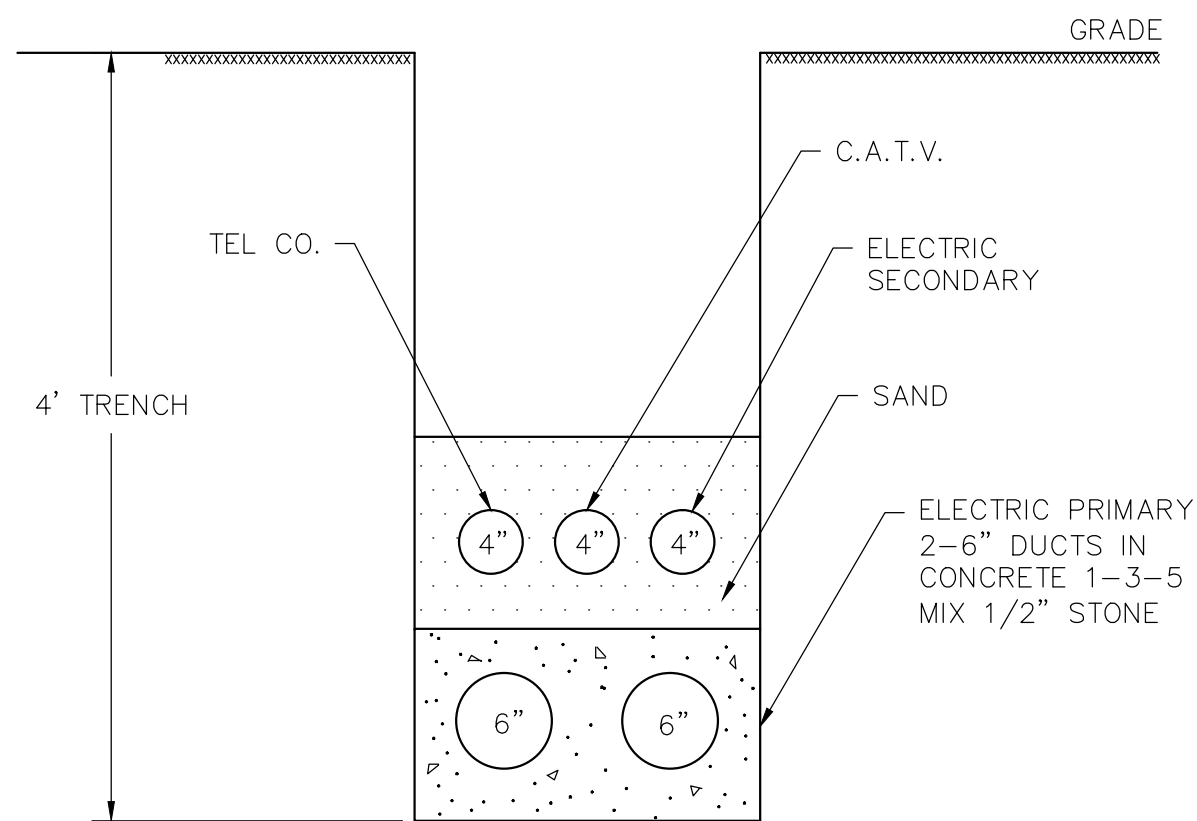


- NOTES:
1. TO THE EXTENT POSSIBLE, NEW WATER MAINS SHALL CROSS OVER EXISTING SEWERS. WATER MAINS SHALL BE CONCRETE ENCASED IF THEY ARE INSTALLED UNDER AN EXISTING SEWER. TO THE EXTENT POSSIBLE, ONE FULL LENGTH OF NEW MECHANICAL JOINT WATER PIPE SHALL BE INSTALLED CENTERED UNDER THE SEWER CROSSING SO THAT THE WATER MAIN PIPE JOINTS WILL BE AS FAR AWAY FROM THE SEWER CROSSING AS POSSIBLE.

UTILITY CROSSING DETAIL
N.T.S.

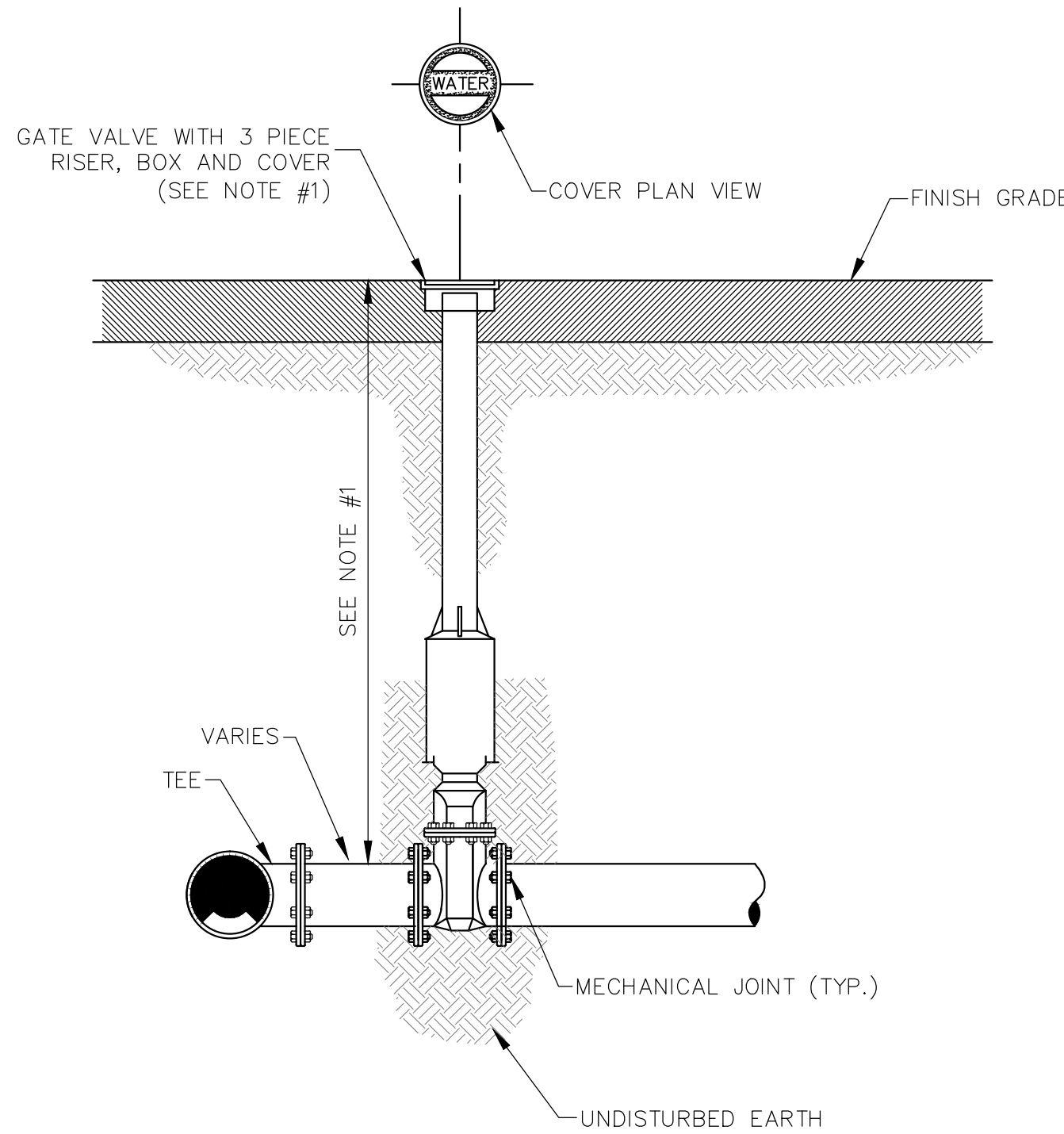


SEWER SERVICE CLEANOUT
N.T.S.



- NOTES:
1. ELECTRIC SECONDARY DUCT IN SAND.
 2. ELECTRIC PRIMARY DUCT IN CONCRETE 1-3-5 MIX 1/2" STONE.
 3. ALL PVC CONDUIT AND 36" RADIUS ELBOW 6" SCHEDULE #40.
 4. RISER POLE - 6" PVC ELBOW 36" RADIUS - PULLING STRING INSTALLED IN ALL OUTLETS - 2 - SETS OF AS BUILT DRAWINGS
 5. CONCRET SLAB FOR TRANSFORMERS SHALL BE 1-2-3 MIX 1" STONE WITH 1/2" RODS.
 6. DUCT BANK TRENCH CONFIGURATION AND MATERIALS TO BE CONFIRMED WITH UTILITY PURVEYORS PRIOR TO CONSTRUCTION.
 7. THIS DETAIL IS FOR ILLUSTRATION ONLY. ALL DUCT BANK DETAILS, TRENCHES AND MATERIALS MUST CONFORM TO THE CURRENT REQUIREMENTS OF EACH UTILITY CO USED ON THIS PROJECT.
 8. CONTRACTOR HAS TO COORDINATE WITH ELECTRICAL SITE PLANS.

DUCT BANK DETAIL
N.T.S.



- NOTE:
1. DEPTH OF BURIAL, GATE VALVE, ROAD BOX & CONNECTION SHALL BE DETERMINED BY THE TOWN WATER DEPARTMENT.
 2. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.

WATER GATE
N.T.S.

TABLE OF DIMENSIONS											
BENDS						BENDS					
B	C	D	E	F		B	C	D	E	F	
6" 11-1/4'	8"	15"	12"	24"	12"	6" 45'	8"	30"	12"	24"	14"
6" 22-1/2'	"	19"	"	"	13"	6" 90'	"	30"	"	"	27"
8" 11-1/4'	"	20"	"	"	12"	8" 45'	"	30"	"	"	24"
8" 22-1/2'	"	22"	"	"	17"	8" 90'	"	38"	"	"	36"
12" 11-1/4'	"	30"	"	"	15"	12" 45'	"	40"	"	"	40"
12" 22-1/2'	"	35"	"	"	25"	12" 90'	"	60"	"	"	52"

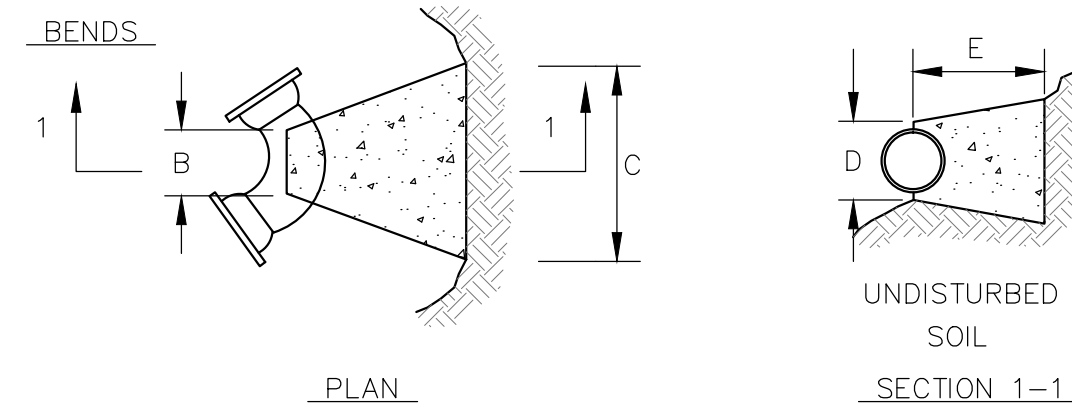
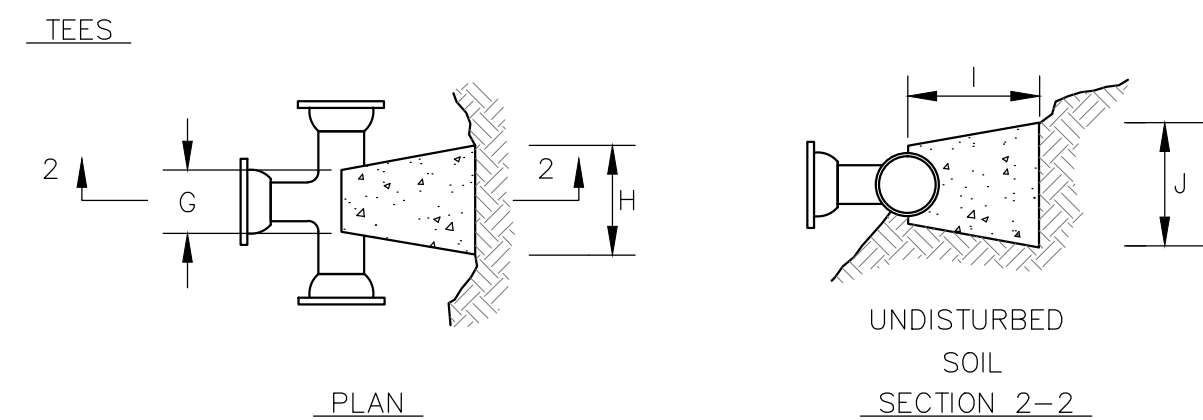
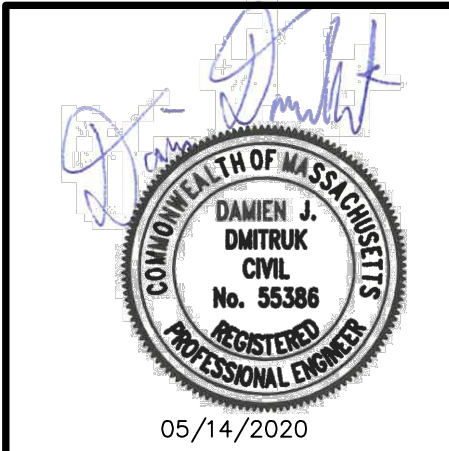


TABLE OF DIMENSIONS									
TEES	G	H	I	J	TEES	G	H	I	J
6"x6"x6"	12"	24"	24"	18"	12"x12"x6"	12"	24"	24"	18"
8"x8"x6"	"	"	"	"	12"x12"x8"	"	"	"	24"
8"x8"x8"	"	"	"	24"	12"x12"x12"	"	36"	"	36"



- NOTES:
1. PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES, ELBOWS, AND VERTICAL BENDS (SAME SIZE AS REQUIRED FOR TEES). PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES.
 2. CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.

CONCRETE THRUST BLOCK
N.T.S.



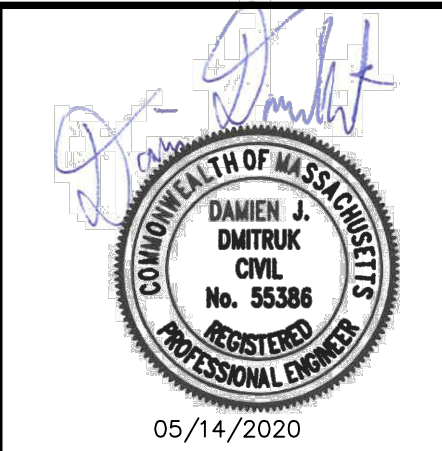
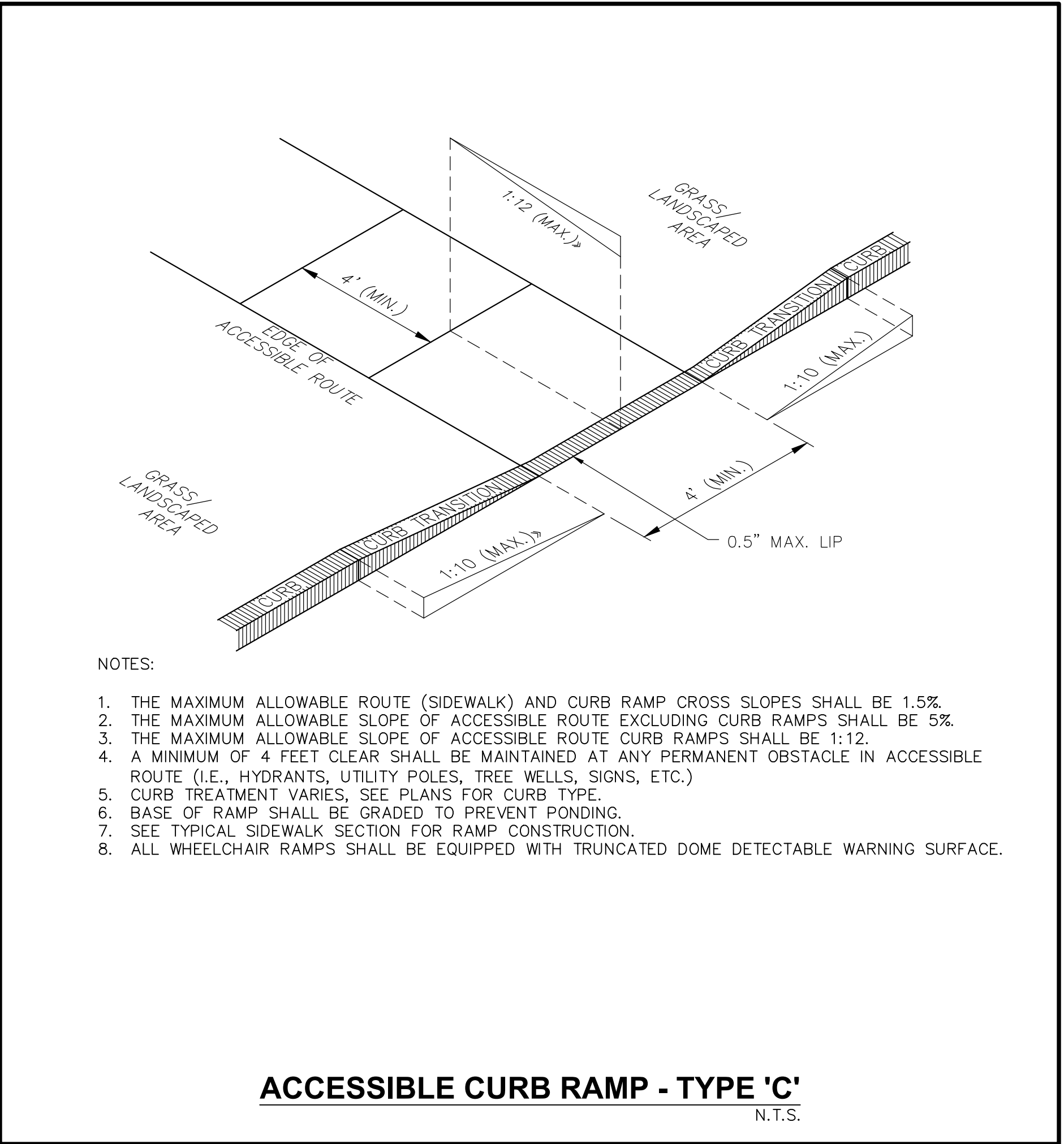
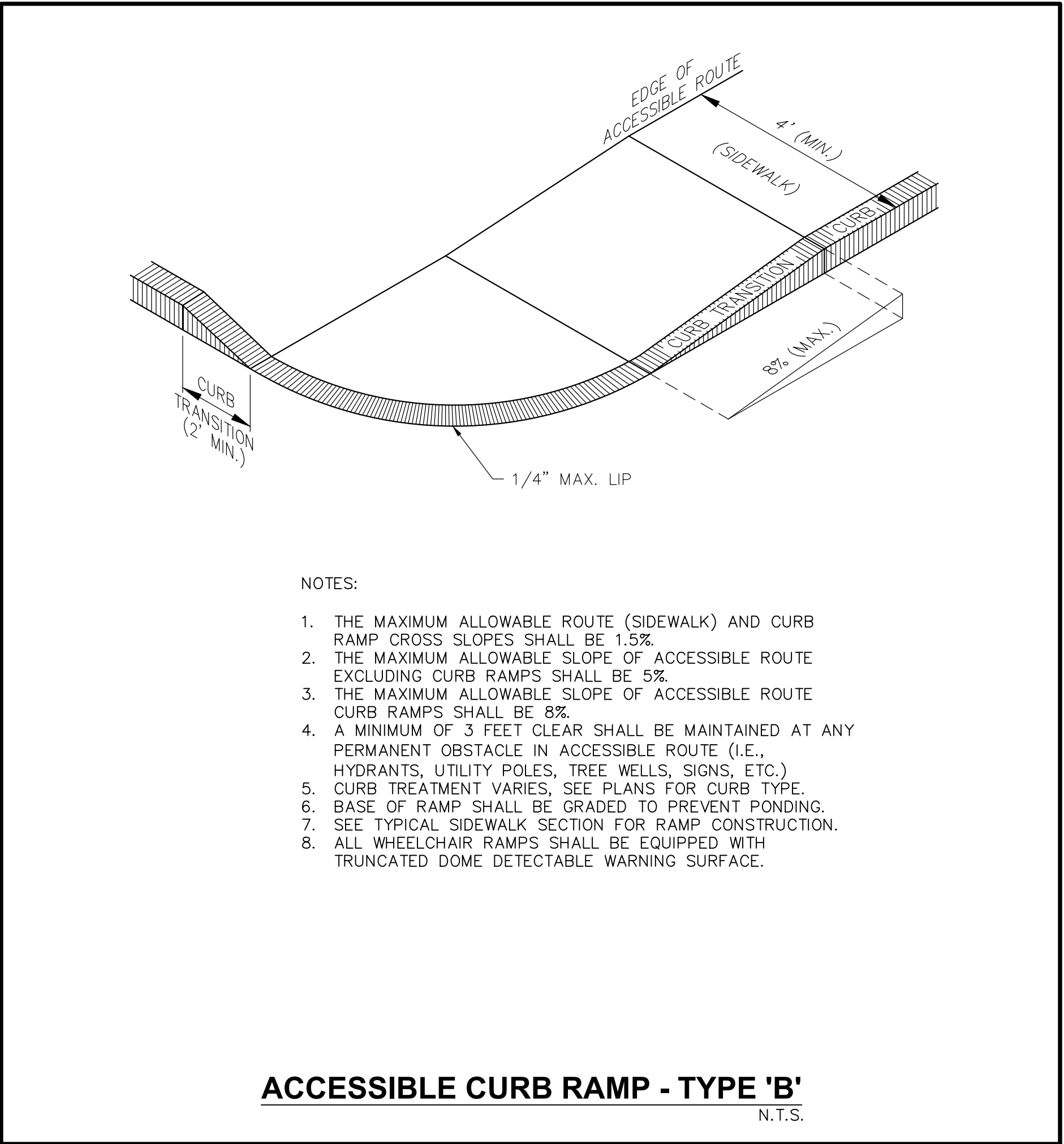
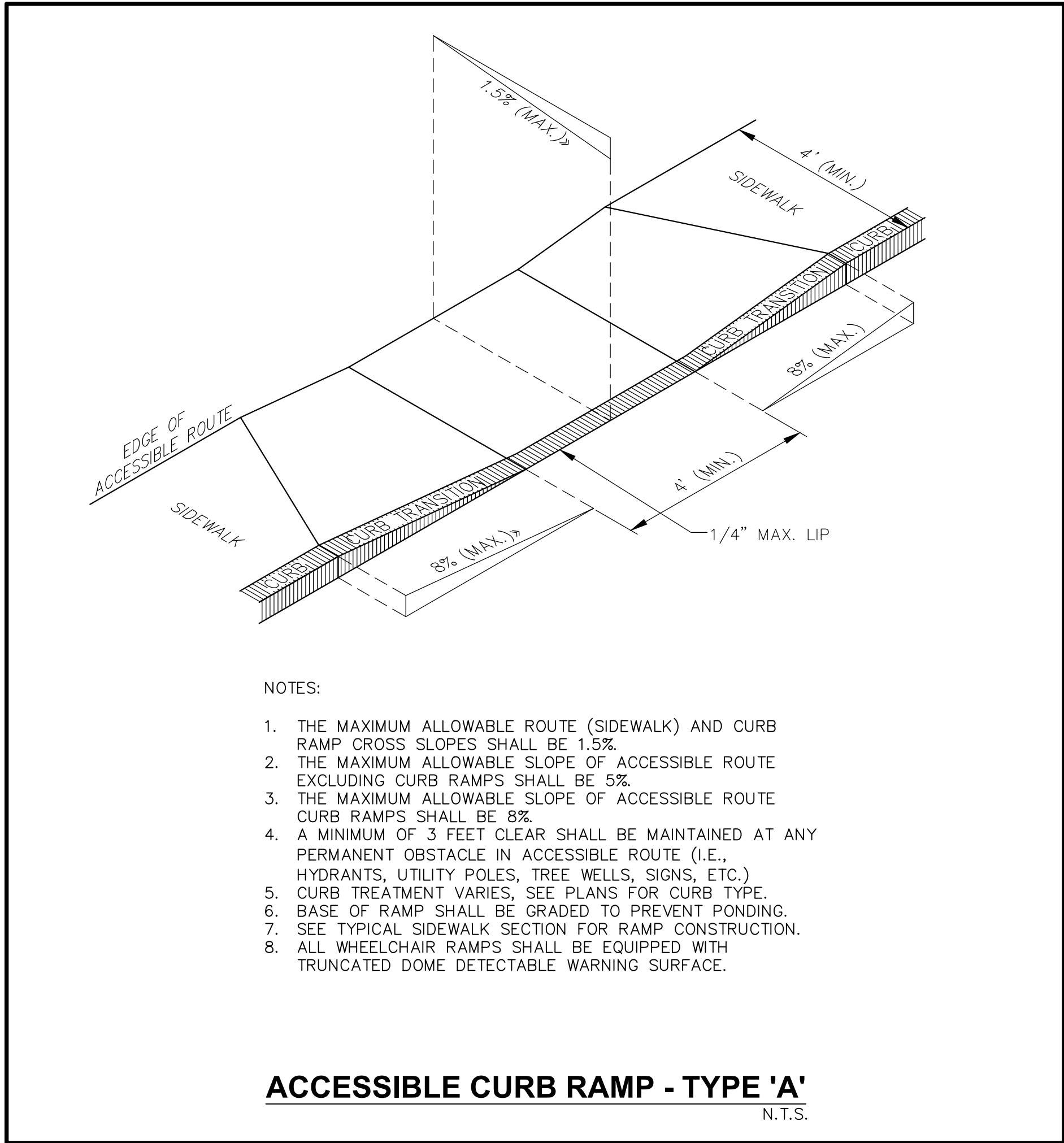
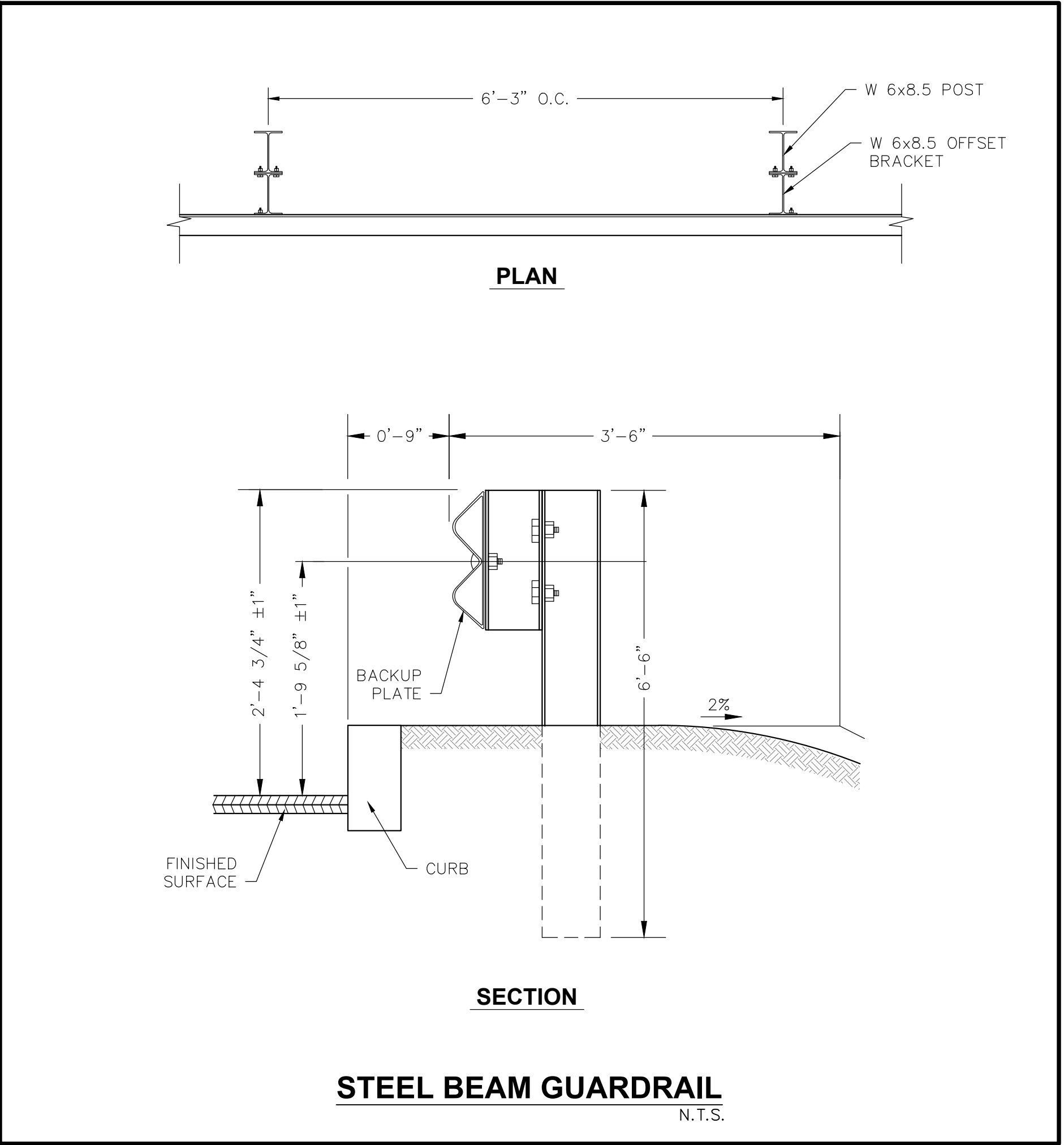
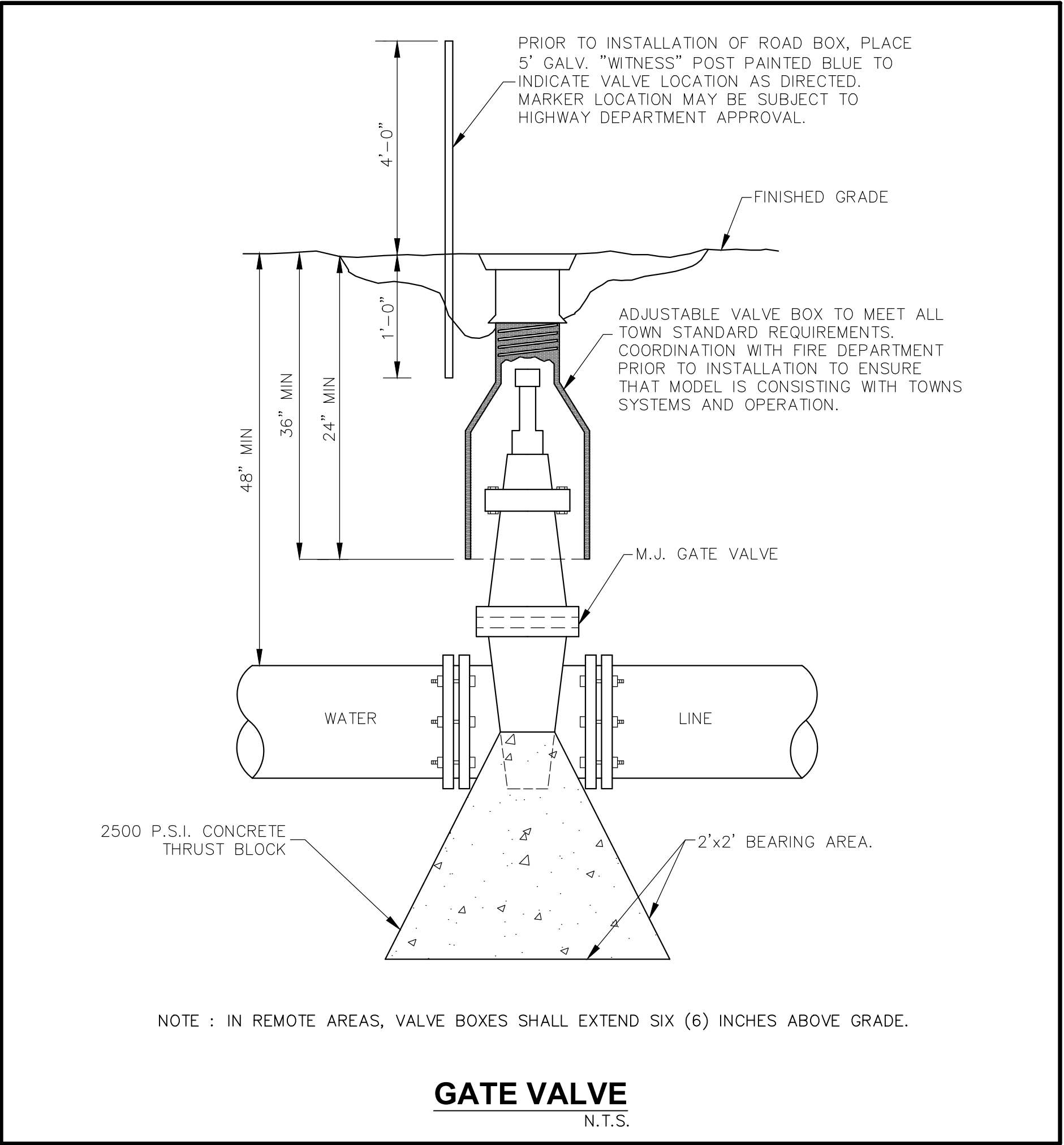
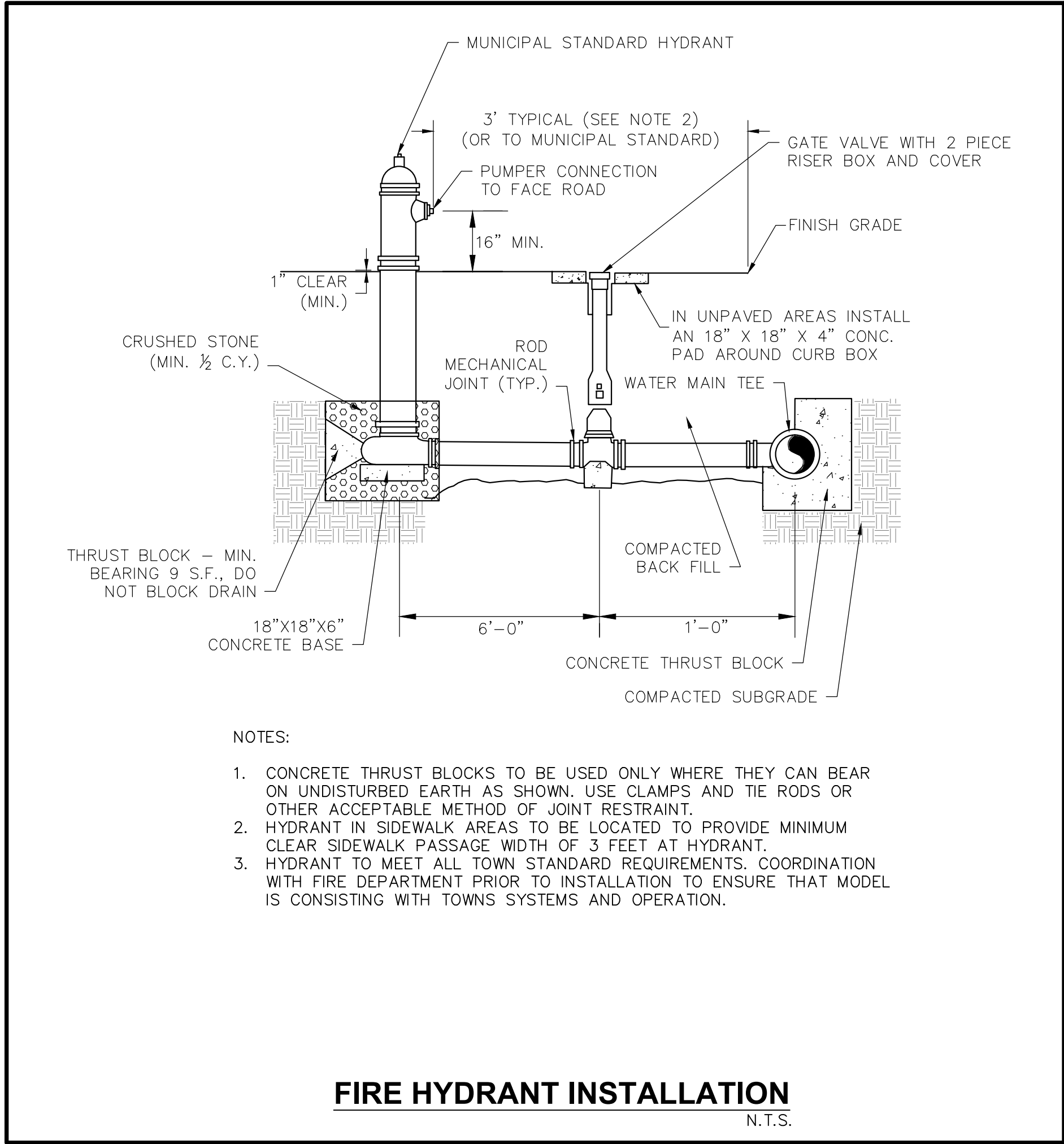
NO.	DATE	DESCRIPTION	DR/CK

SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324	REVISIONS

SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	DETAILS SHEET 4 OF 8

CONECO Engineers & Scientists 4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324 PHONE 508-697-3133 FAX 508-697-5996 WEBSITE: www.coneco.com	PROJECT

DATE	05/14/2020
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: JEN
SCALE:	N.T.S.
PROJECT NO.	3395.1
SHEET NO.	20



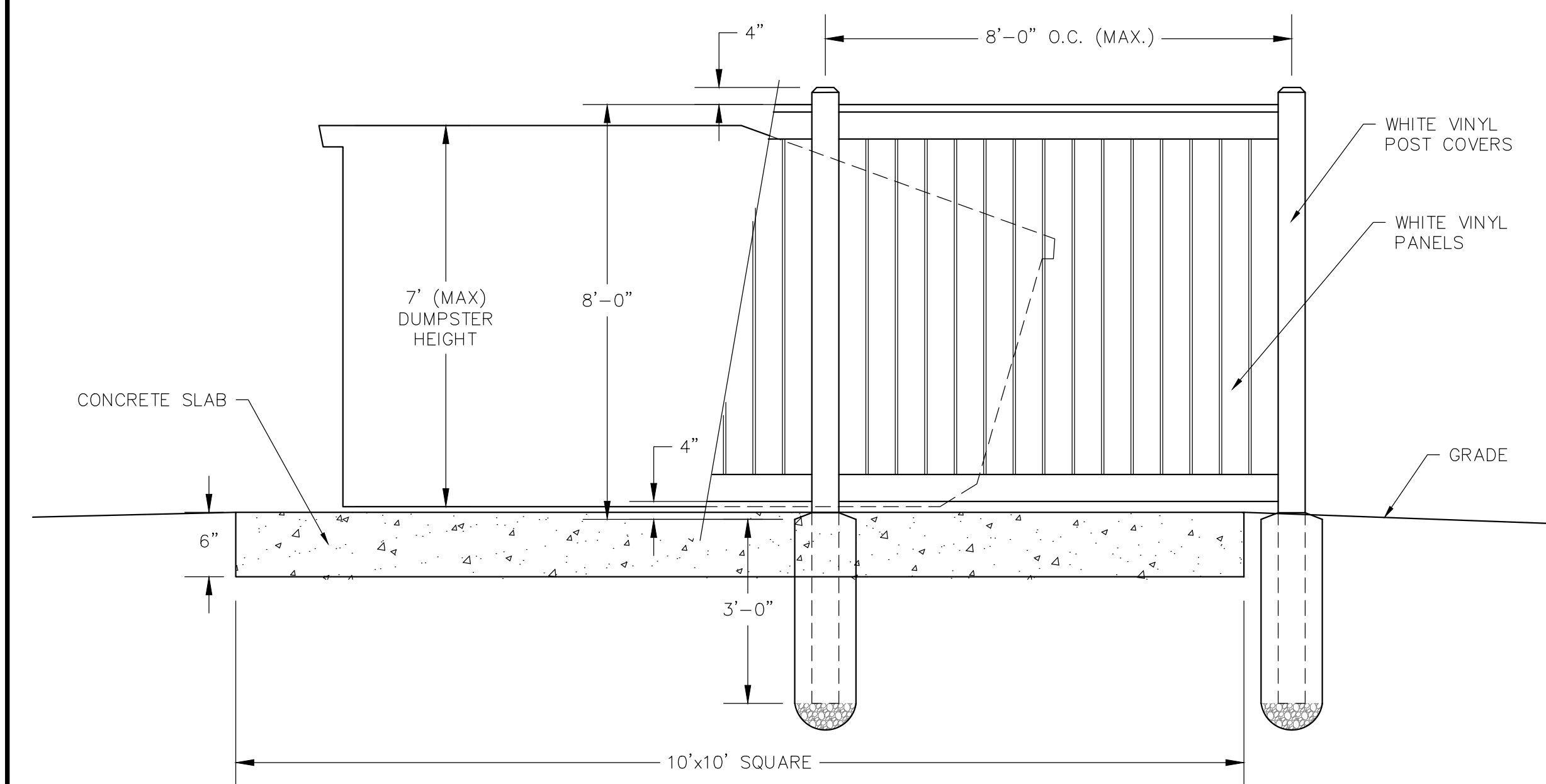
NO.	DATE	DESCRIPTION	DR/CK

SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324	02324
SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	02370

SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	02370
SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	02370



DATE	05/14/2020
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: JEN
SCALE:	N.T.S.
PROJECT NO.	3395.1
SHEET NO.	21

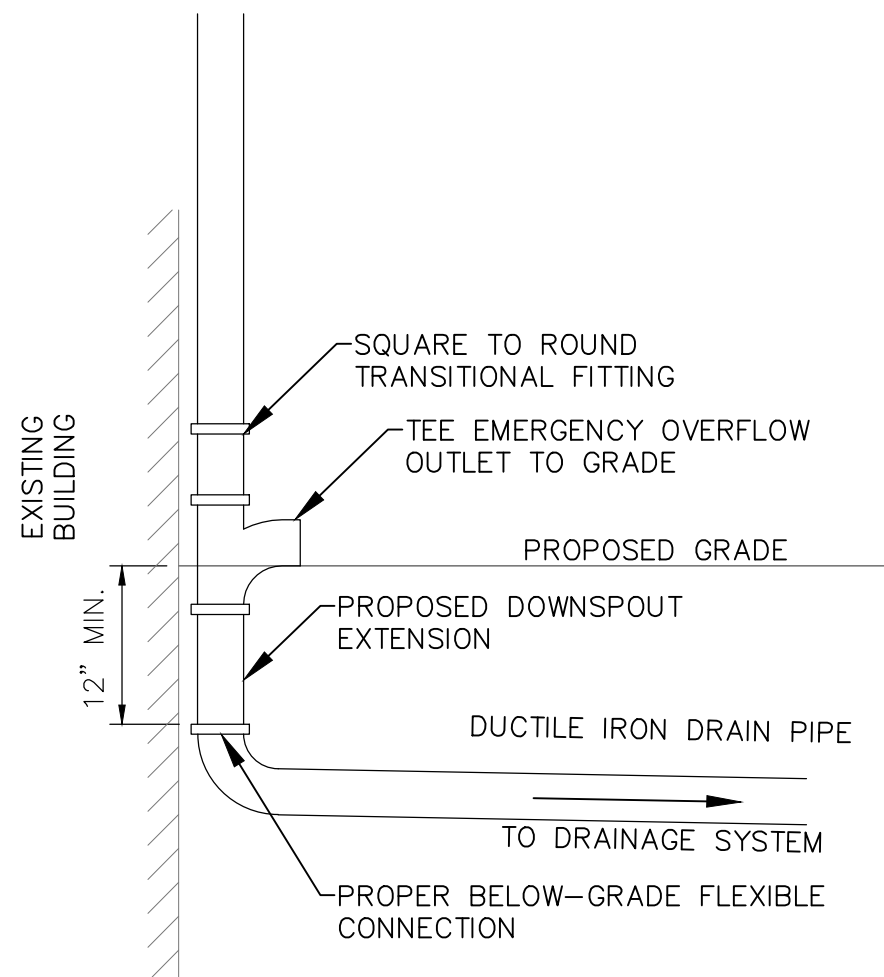


NOTES:

1. ALL WOOD TO BE NO. 1 GRADE CEDAR AND FREE OF EXCESSIVE CHIPS, CRACKS, WARPS OR KNOTS. UNLESS NOTED OTHERWISE ON DRAWING.
2. ALL FASTENERS TO BE HOT DIPPED GALVANIZED

DUMPSTER ENCLOSURE

N.T.S.

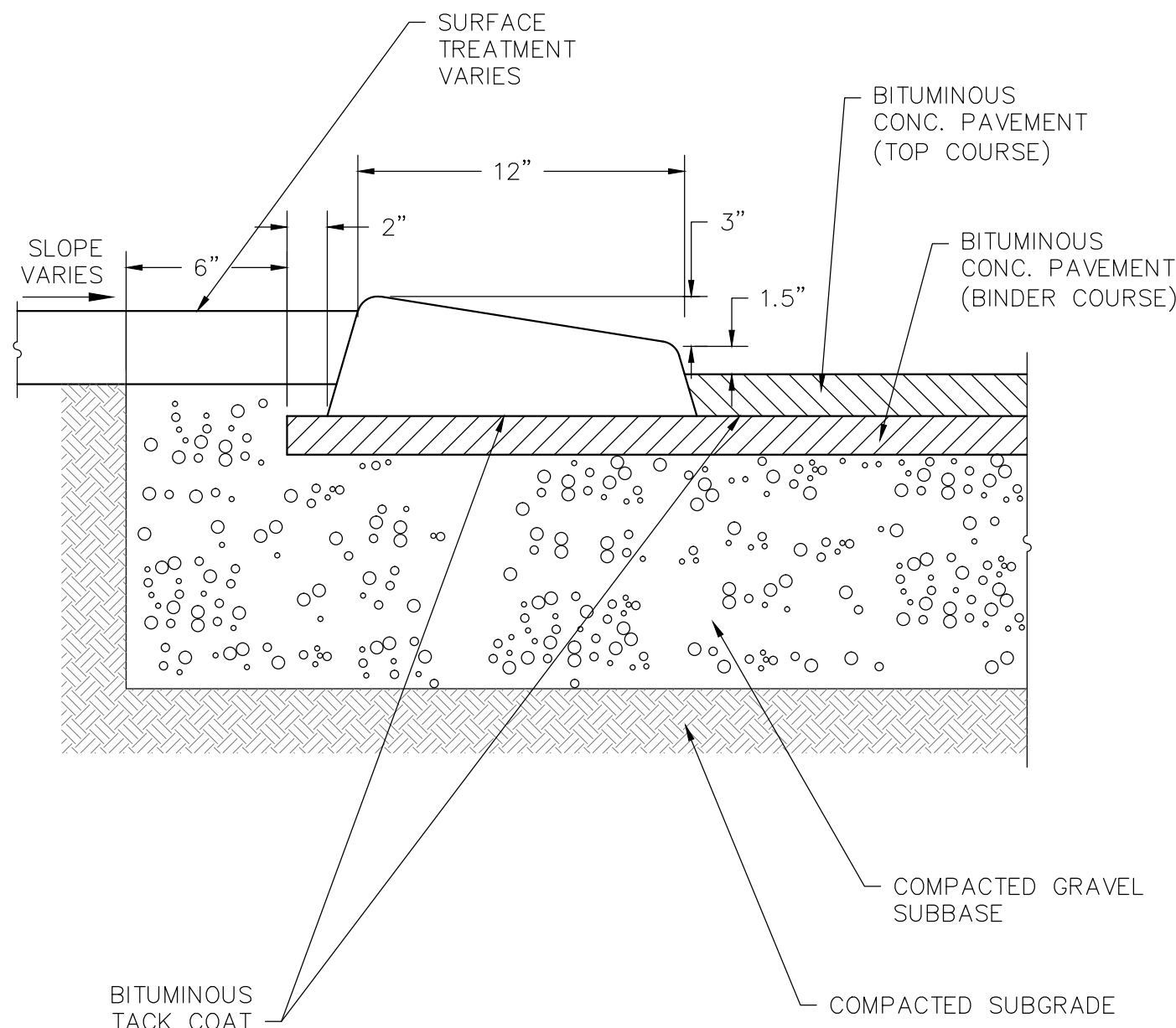


NOTES:

1. FOR INTERIOR DOWNSPOUTS: CONNECT WITHIN BUILDING AND PASS THROUGH FOUNDATION BELOW GRADE.
2. FOR EXTERIOR DOWNSPOUTS: CONNECT OUTSIDE OF BUILDING AS SHOWN.
3. EMERGENCY OUTLET TO GRADE SHALL MATCH PROPOSED DOWNSPOUT EXTENSION IN MATERIAL AND DIAMETER.
4. OVERFLOW ASSEMBLY SHALL BE PERMANENTLY SECURED TO THE BUILDING TO PREVENT SETTLEMENT OF THE ASSEMBLY.

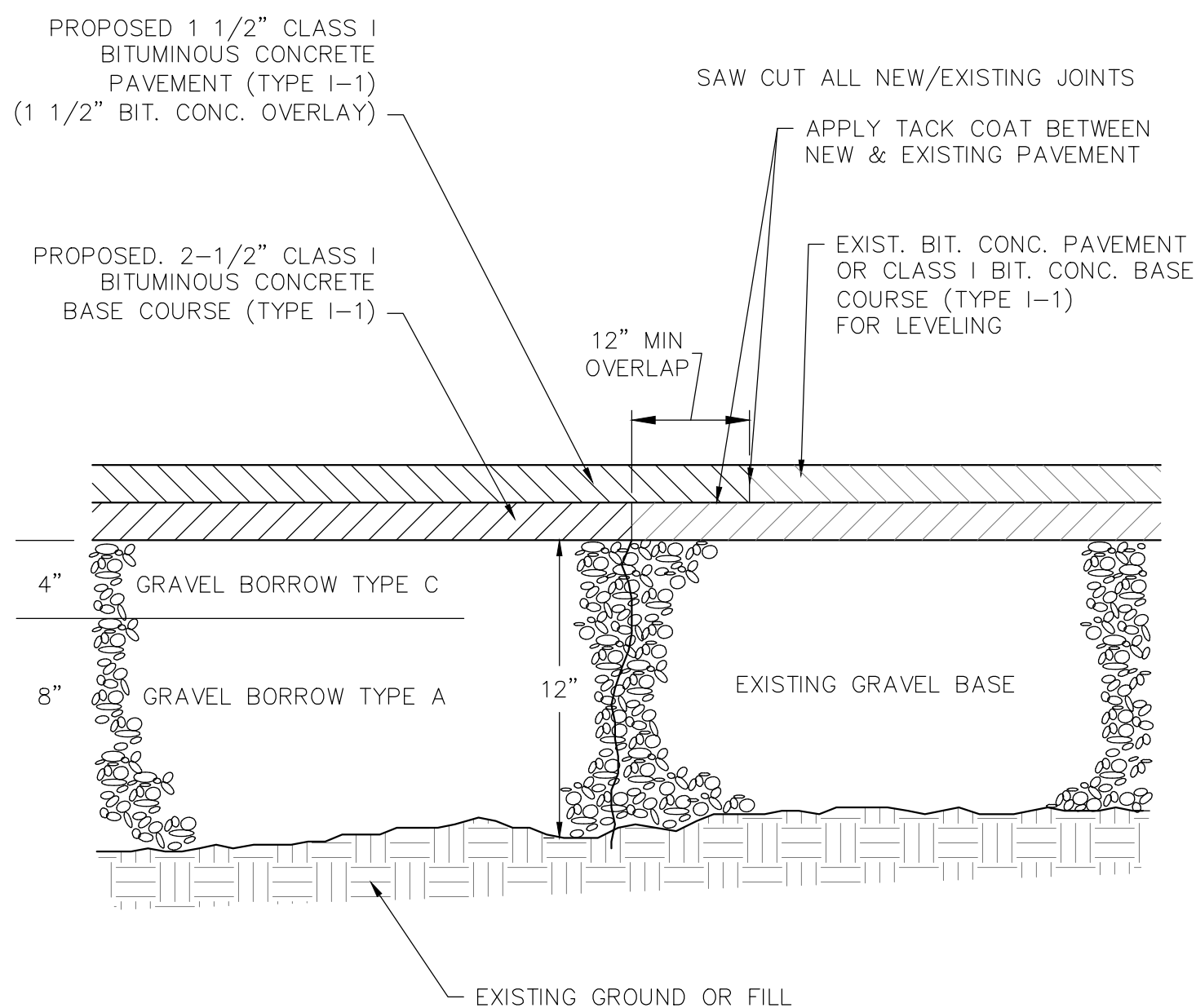
DOWNSPOUT CONNECTION & OVERFLOW DETAIL

N.T.S.



CAPE COD BERM (CCB)

N.T.S.

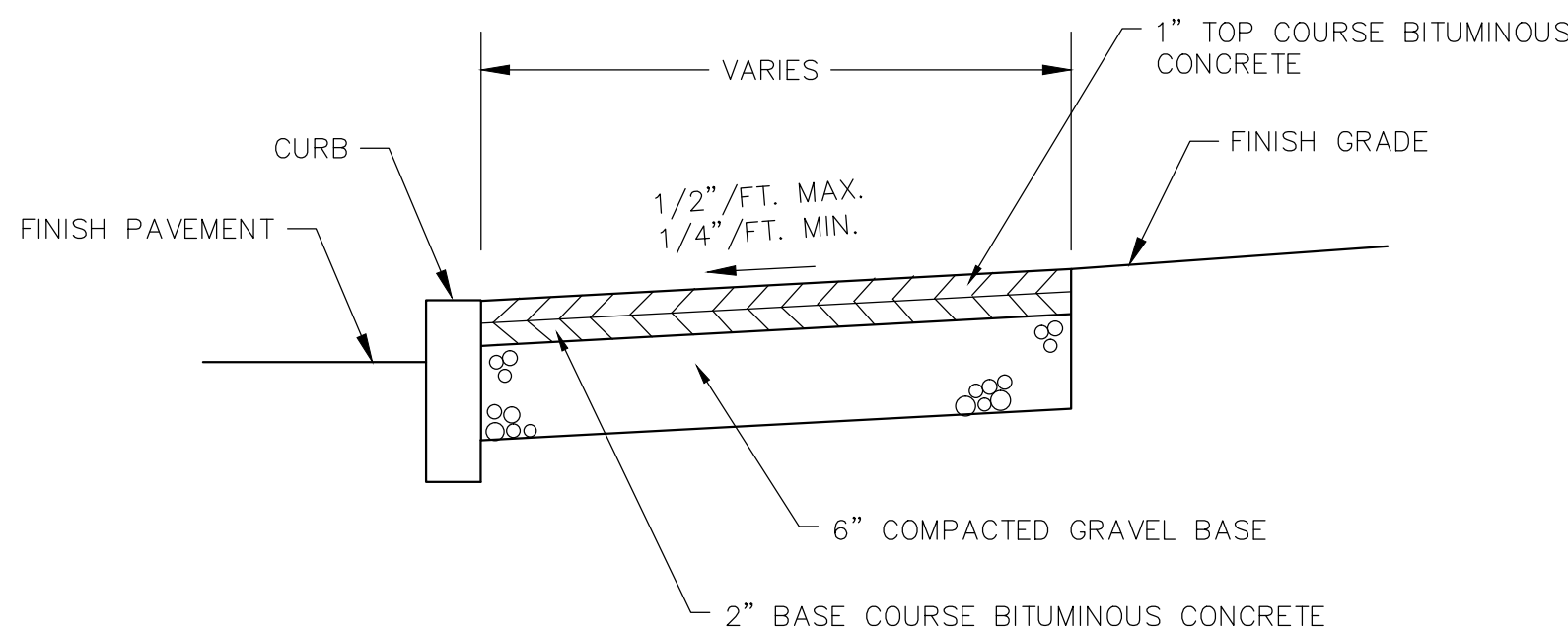


NOTES:

1. GRAVEL BORROW TYPE C IS MASS HIGHWAY SECTION M1.03.0, 2 INCHES LARGEST DIMENSION.
2. GRAVEL BORROW TYPE A IS MASS HIGHWAY SECTION M1.03.0, 6 INCHES LARGEST DIMENSION.
3. GRAVEL BORROW SHALL BE COMPACTED TO 95% PROCTOR DENSITY.

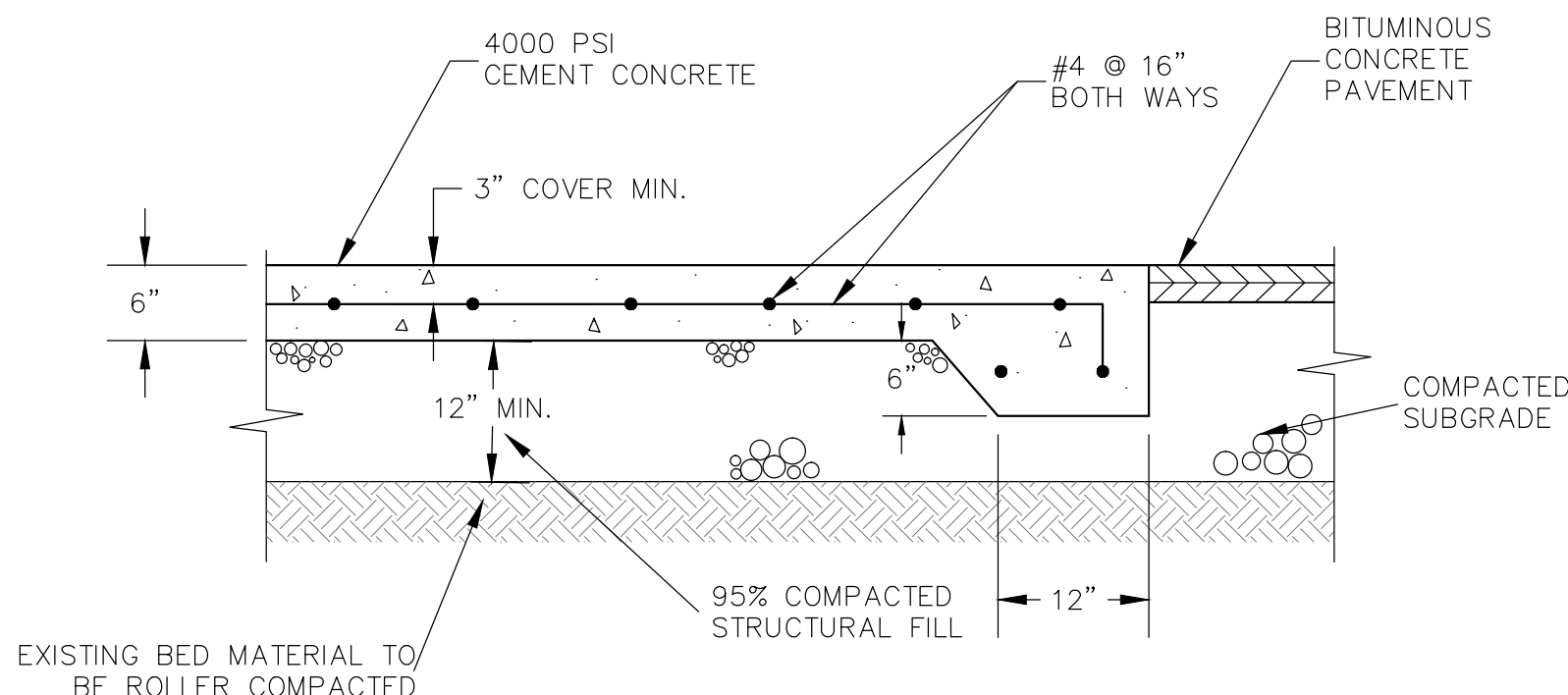
TYPICAL PAVEMENT SECTION

N.T.S.



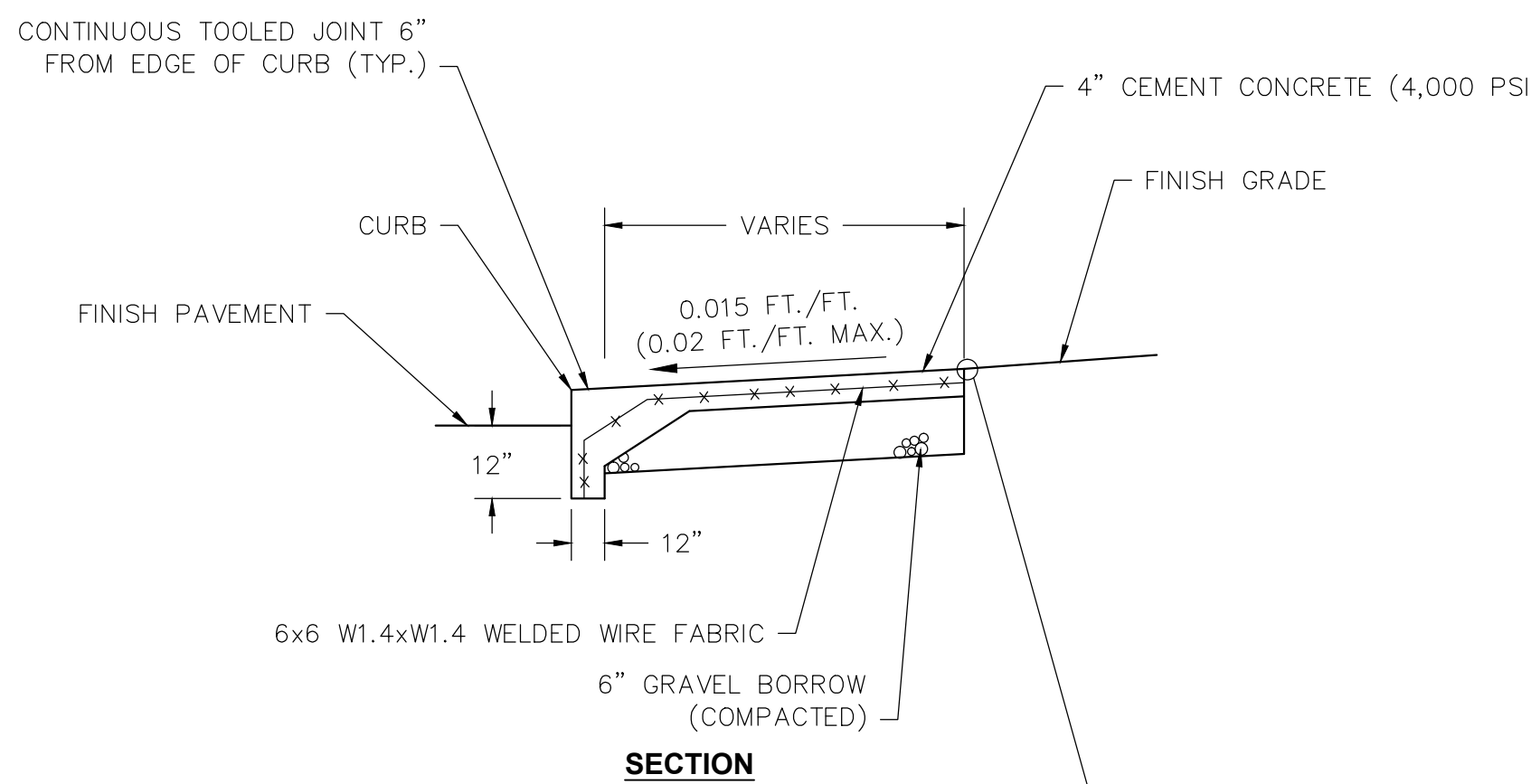
BITUMINOUS CONCRETE SIDEWALK

N.T.S.



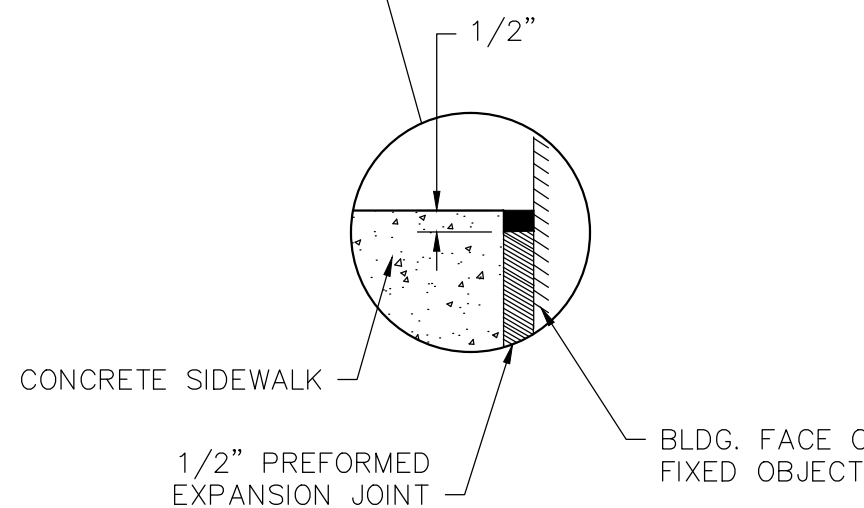
CONCRETE DUMPSTER AND LANDING PADS

N.T.S.



NOTES:

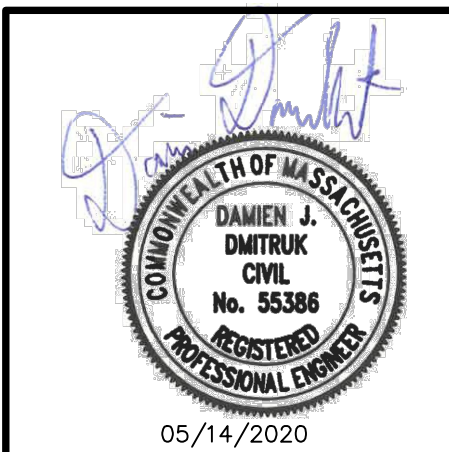
1. PROVIDE EXPANSION JOINTS AT MIN. 16 FT. O.C. WITH PRE-MOLDED JOINT FILLER.
2. PROVIDE TOOLED CONTROL JOINTS AT 4' O.C.
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.



JOINT DETAIL

MONOLITHIC CONCRETE SIDEWALK & CURB

N.T.S.



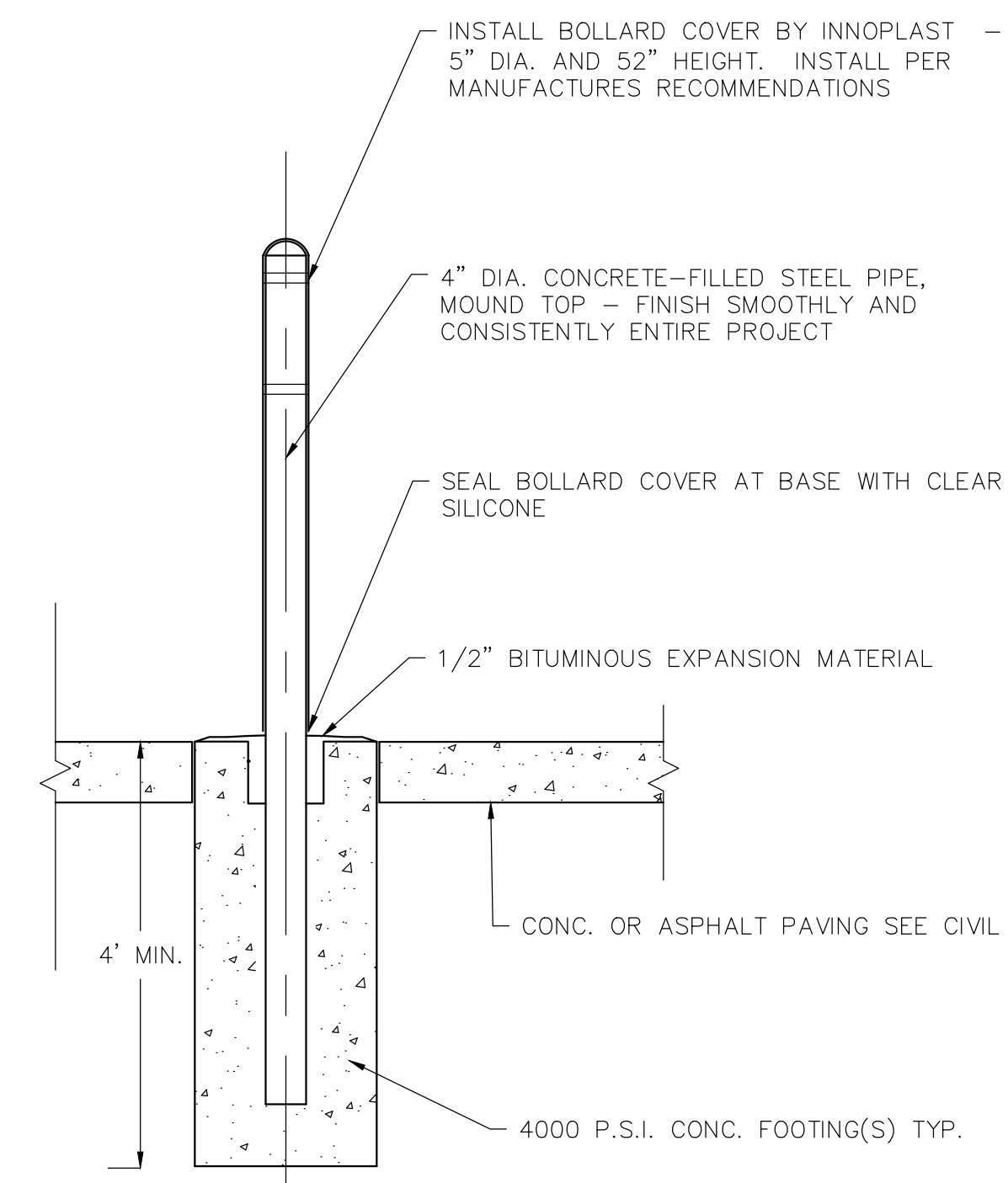
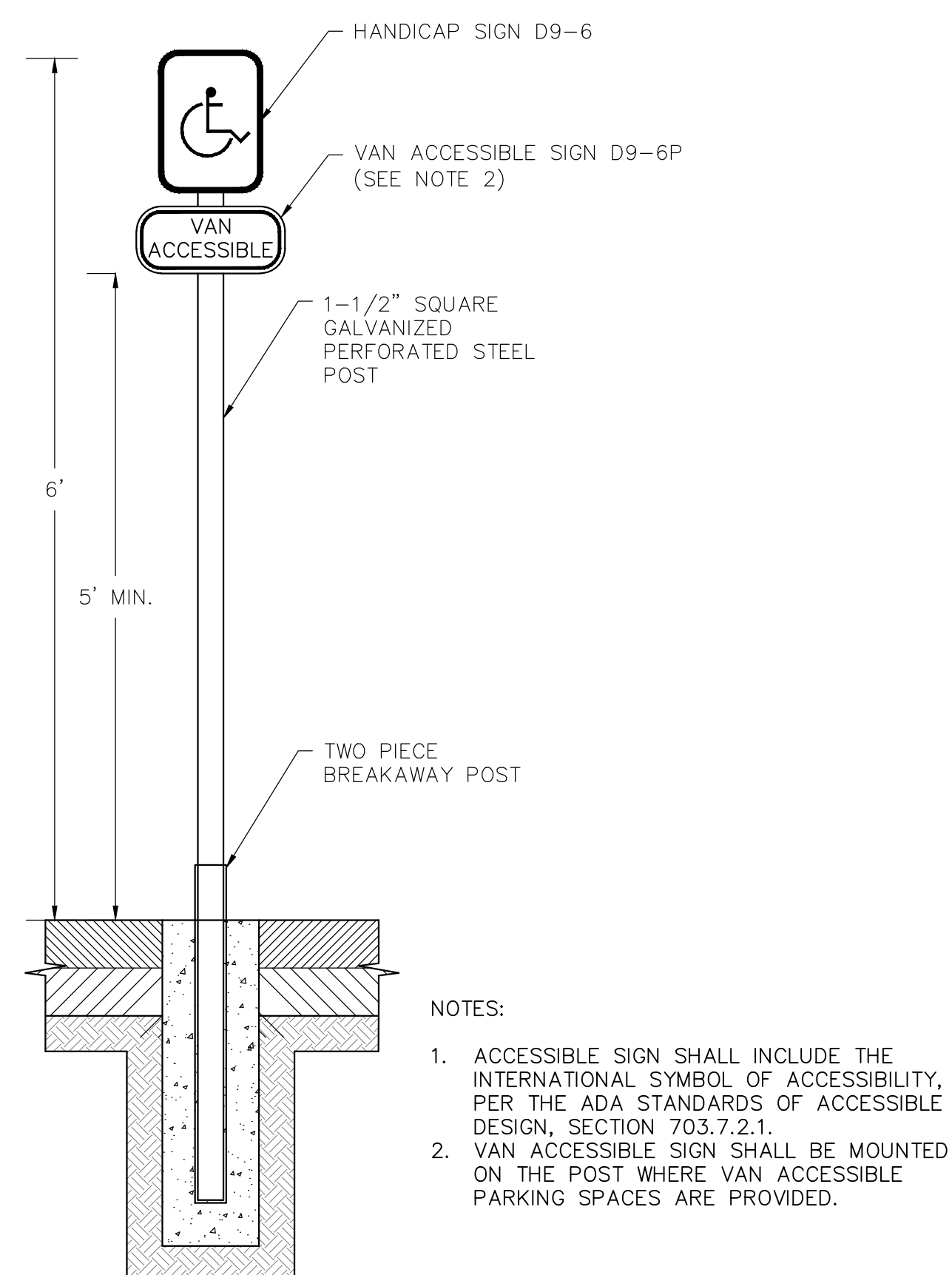
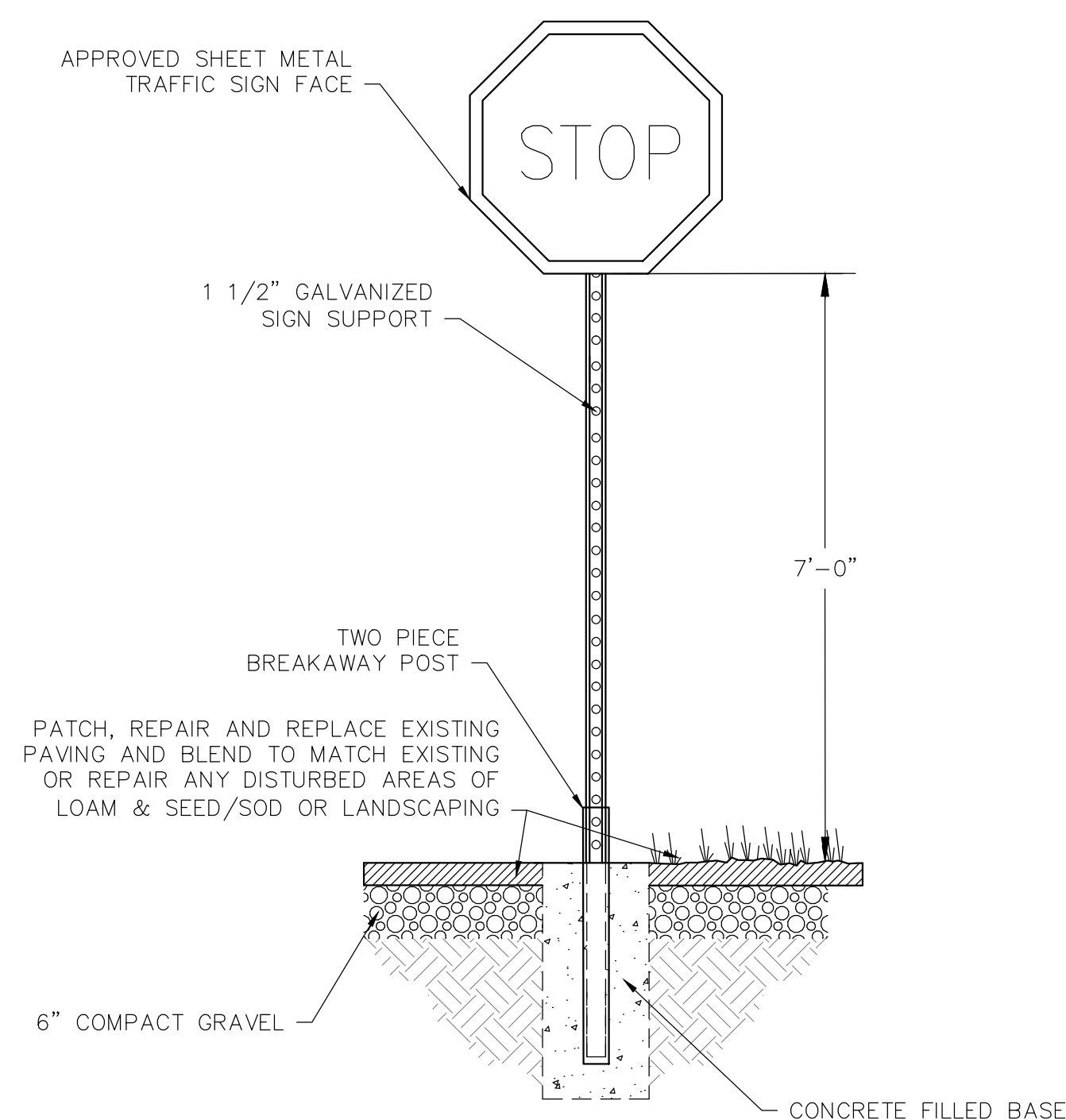
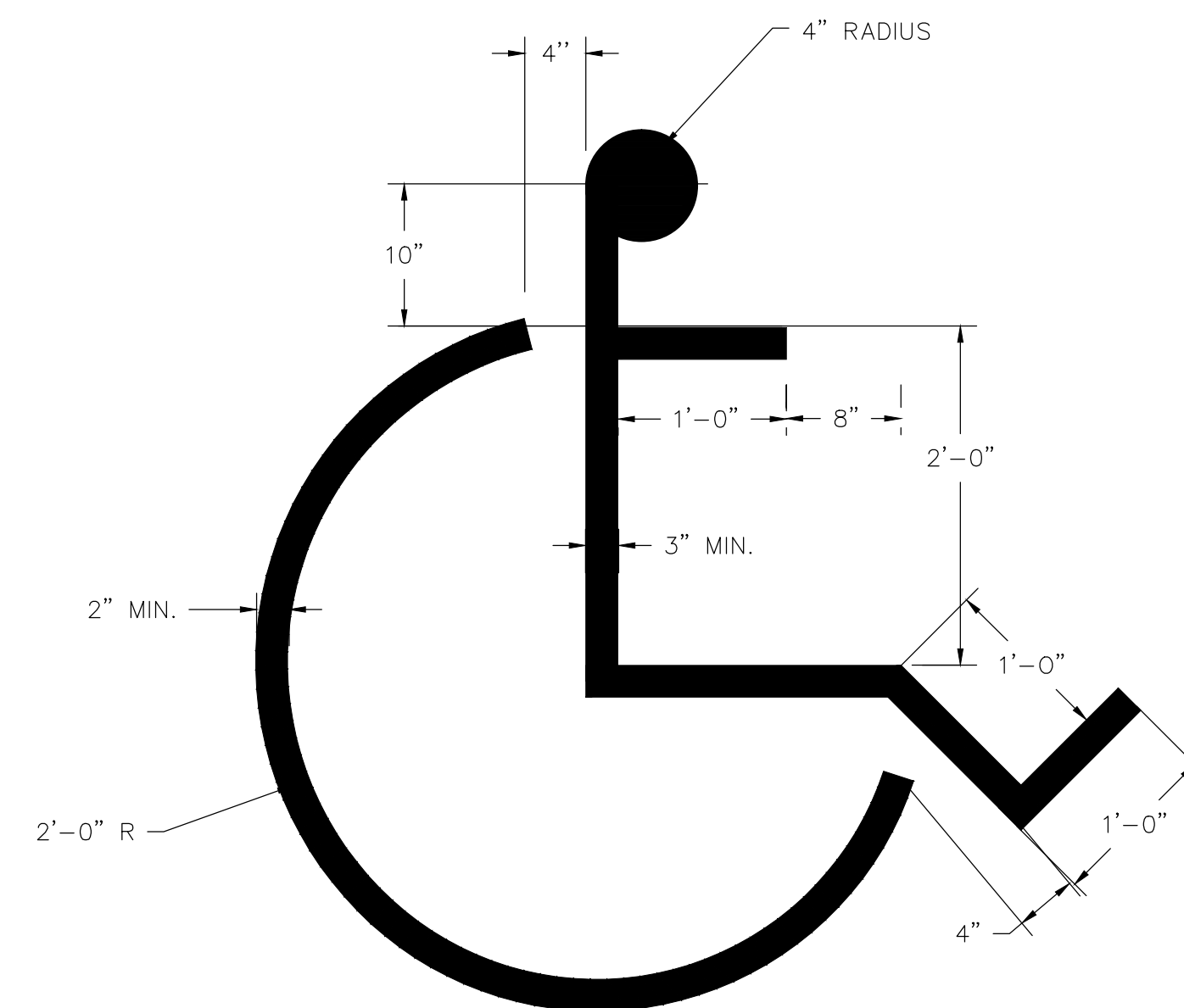
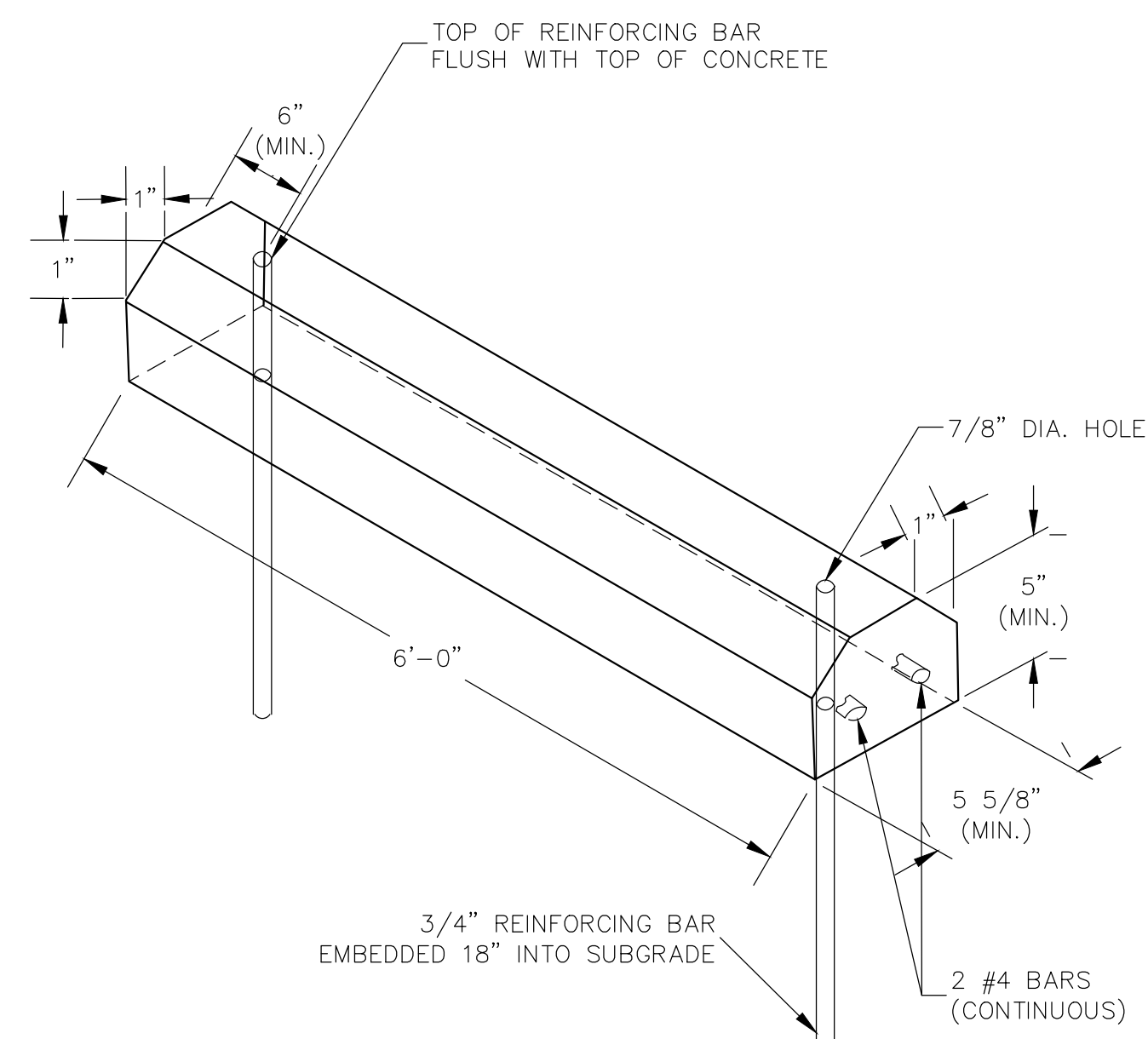
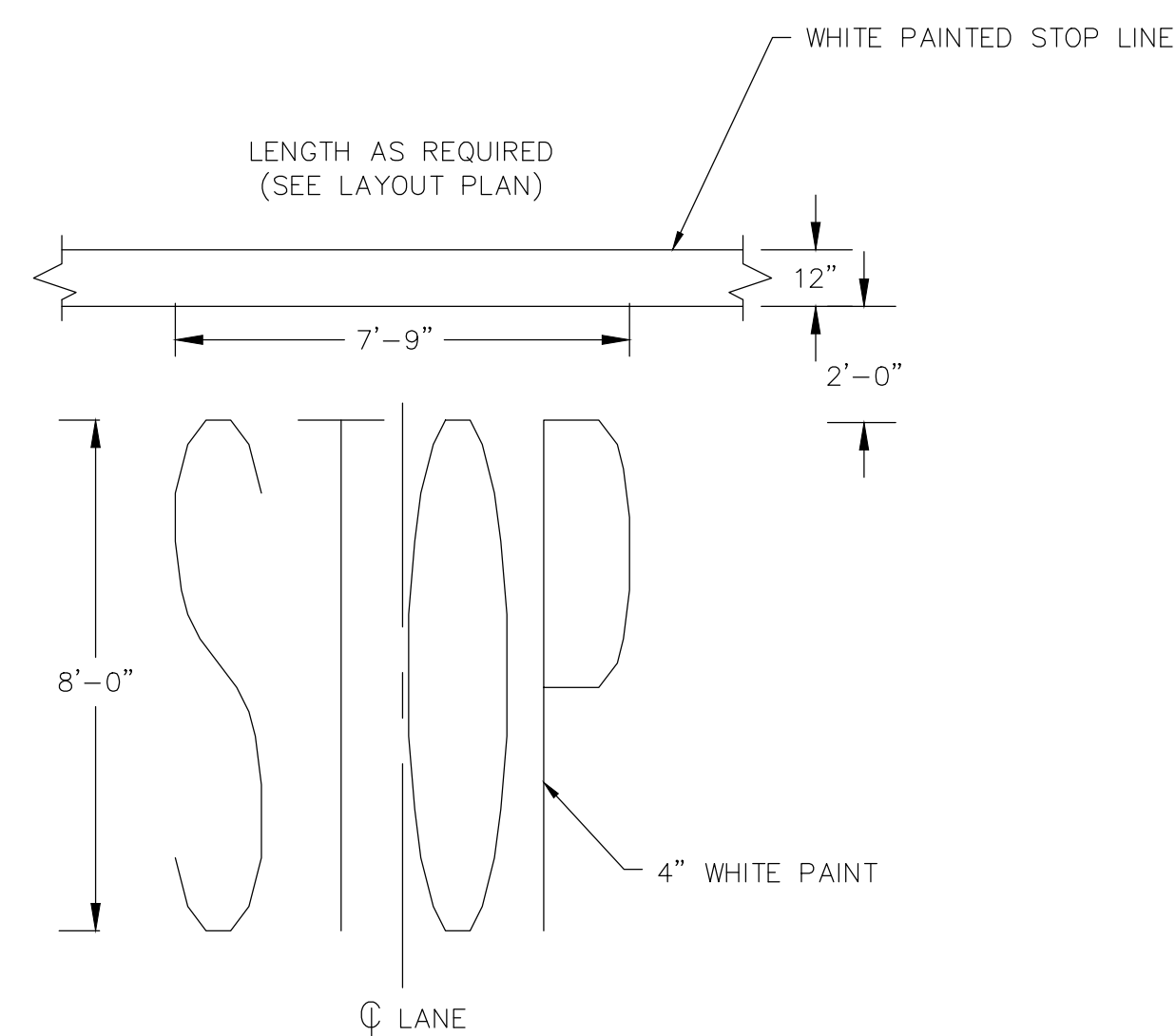
NO.	DATE	DESCRIPTION	DR/CK

SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324	DETAILS SHEET 6 OF 8
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SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370	SITE PLANS
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CONECO
Engineers & Scientists
4 FIRST STREET, BRIDGEWATER, MASSACHUSETTS 02324
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DATE	05/14/2020
DESIGNED: DJD	CHECKED: JEN
DRAFTED: DJD	IN CHARGE: JEN
SCALE:	N.T.S.
PROJECT NO.	3395.1
SHEET NO.	22



05/14/2020

[illegible]

PREPARED FOR:	SHINGLEMILL, LLC 4 FIRST STREET BRIDGEWATER, MASSACHUSETTS 02324
DRAWING:	DETAILS SHEET 7 OF 8

PROJECT:	SHINGLEMILL APARTMENTS POND STREET ROCKLAND, MASSACHUSETTS 02370
PLAN SET:	SITE PLANS



CONECO
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DATE		05/14/2020	
DESIGNED:	DJD	CHECKED:	JEN
DRAFTED:	DJD	IN CHARGE:	JEN
SCALE:		N.T.S.	
PROJECT NO.		3395.1	
SHEET NO.		00	

