

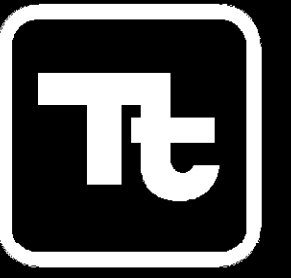
200 Libbey Industrial Parkway, WEYMOUTH, MA

SITE DEVELOPMENT PLANS

FOXROCK 200 LIBBEY, LLC

20 Cabot Blvd. Suite 305
Mansfield, MA 02048
Phone: 508-786-2200

www.tetrattech.com



TETRA TECH

DEVELOPER:
FOXROCK 200 LIBBEY, LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169



Architect
isgeniuty LLC
500 Harrison Avenue, Suite 5F
Boston, MA 02118
Tel: 617 419 4860
www.isgeniuty.com



MEP/FP Engineer
R.W. Sullivan Engineering
The Schryff Center
529 Main Street, Suite 203
Boston, MA 02129
Tel: 617 523 8227
Fax: 617 523 8016

Civil Engineer
Tetra Tech INC
20 Cabot Boulevard, Suite 305
Mansfield, MA 02048
Tel: 508-786-2200
www.tetrattech.com



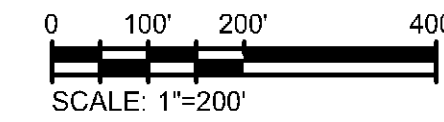
Landscape Architect
terraink Landscape Architecture
7 Central Street, Suite 150
Arlington, MA 02476
Tel: 781 316 1595
www.terraink.com



Structural Engineer
McNamara + Salvia
101 Federal Street, Suite 1100
Boston, MA 02110
Tel: 617 737 0040
www.mcsai.com



SITE CONTEXT MAP



DRAWING LIST

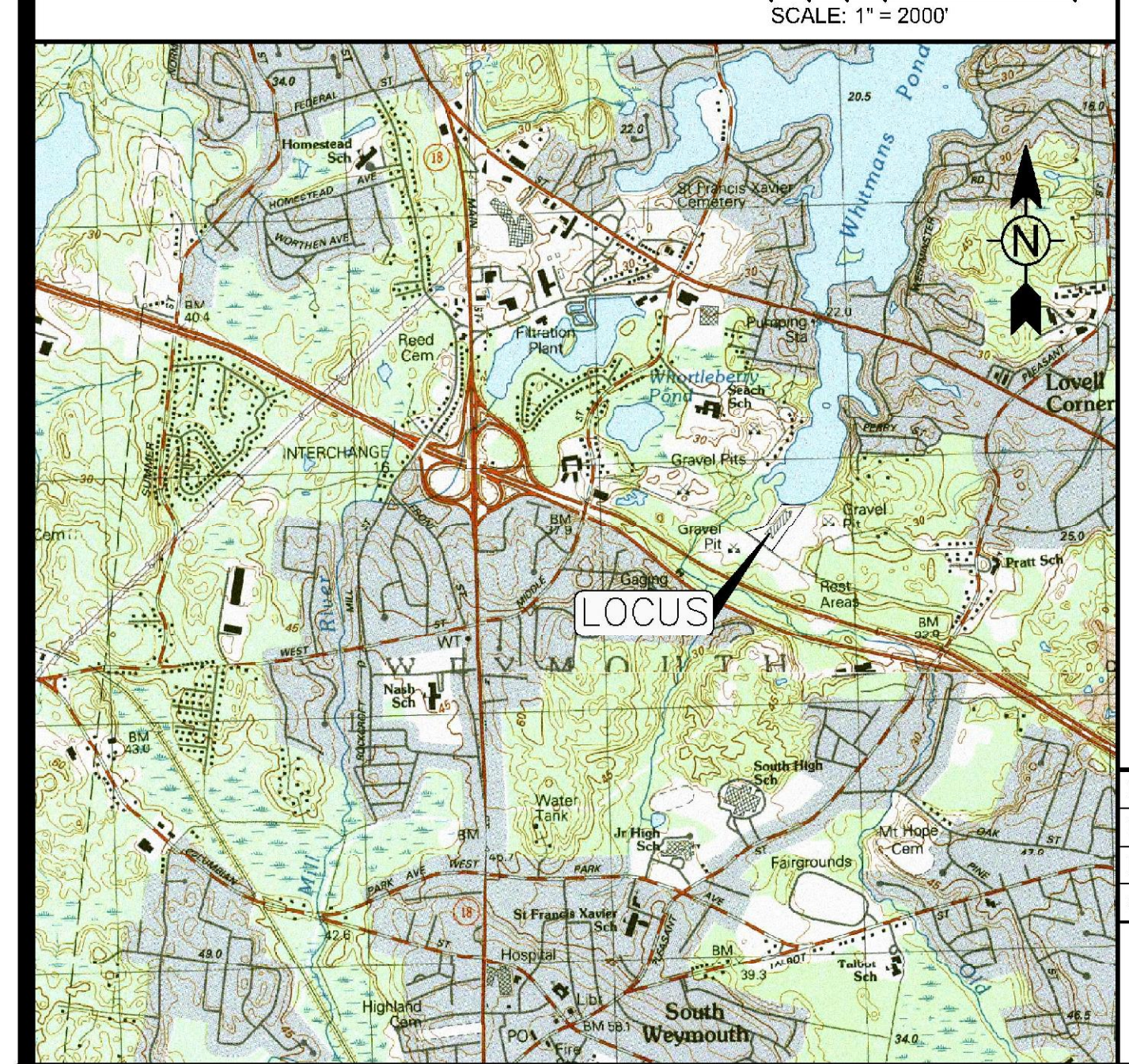
- C-1 COVER SHEET
- 1 EXISTING CONDITIONS SURVEY
- C-3 SITE LAYOUT PLAN
- C-4 GRADING AND DRAINAGE PLAN
- C-5 UTILITY PLAN
- C-6 EROSION & SEDIMENT CONTROL PLAN
- C-7 DETAIL SHEET
- C-8 DETAIL SHEET
- C-9 DETAIL SHEET
- C-10 RECHARGE SYSTEM DETAIL SHEET
- L-1 PERMITTING PLANTING
- L-2 PERMITTING ENLARGEMENT
- L-3 PERMITTING ILLUSTRATIVES



ISSUED:

FEBRUARY 3, 2021 SUBMIT NOI TO CONSERVATION COMMISSION
FEBRUARY 11, 2021 SUBMIT TO BOARD OF ZONING APPEALS
MARCH 8, 2021 REVISED PER CONSERVATION / DPW COMMENTS

USGS MAP:



200 LIBBEY INDUSTRIAL PARKWAY, WEYMOUTH, MA
SITE DEVELOPMENT PLANS

Project No.: 143-42892-20004
Designed By: G.K.D.
Drawn By: J.L.P.
Checked By: R.D.A.

C-1

EXISTING	LEGEND	PROPOSED
210X23	SPOT GRADE	140X50
	TOP OF WALL ELEVATION	123.5TW
	BOTTOM OF WALL ELEVATION	120.0BW
	CONTOUR	136
CB	CONCRETE BOUND	
SB	STONE BOUND	
DH	DRILL HOLE	
LP	LIGHT POLE	
UP	UTILITY POLE	
WV	WATER VALVE	
DL	DRAIN LINE	
SL	SEWER LINE	
G	GAS LINE	
W	UNDERGROUND ELECTRIC	
W	WATER LINE	
OE	OVERHEAD WIRES	OE
CB	CATCH BASIN	CB
FO	FLARED END OUTLET	
DMH	DRAIN MANHOLE	DMH
SMH	SEWER MANHOLE	SMH
GG	HYDRANT	
MW	GAS GATE	
	MONITORING WELL	
	TEST PIT	
	BOLLARD	
VGC	VERTICAL GRANITE CURB	VGC
CC	CONCRETE CURB	CC

ITEM	REQUIRED	EXISTING	PROVIDED
MINIMUM LOT AREA	43,560 S.F. (1.0 Ac.)	187,308 S.F. (4.3 Ac.)	NO CHANGE
MINIMUM LOT WIDTH	150'	388.08'	NO CHANGE
MINIMUM FRONTAGE	NO REQMT.	419.38'	NO CHANGE
FRONT SETBACK	40'	115'	256'
SIDE SETBACK	25'	79'	56'
REAR SETBACK	25'	>25'	>25'
BUILDING LOT COVERAGE (1)	NO REQMT.	22.0%	12.3%
MAX IMPERVIOUS LOT COVERAGE (2)	60%	72.5%	68.3%
MAXIMUM STORIES	3	2	3
MAXIMUM HEIGHT	35'	±20'	±45'

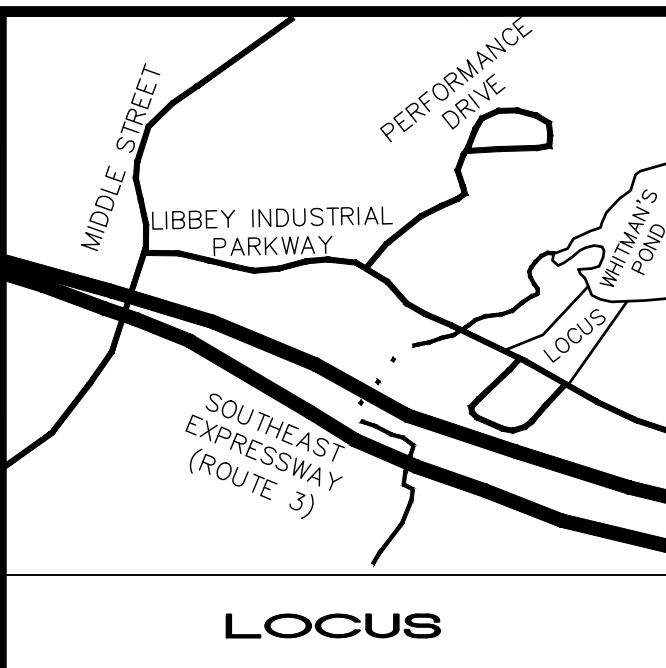
(1) WEYMOUTH ZONING ORDINANCE DEFINES LOT COVERAGE AS: "THE FIXED RELATION BETWEEN THE LOT AREA AND THE AREA OF GROUND COVERAGE OF ALL BUILDINGS, INCLUDING ACCESSORY BUILDINGS, AND EXPRESSED AS A PERCENTAGE."
(2) LOT IMPERVIOUS COVERAGE: "THE FIXED RELATION BETWEEN THE LOT AREA AND THE AREA OF IMPERVIOUS COVERAGE OF ALL BUILDINGS AND PAVEMENT EXPRESSED AS A PERCENTAGE."

AREA	EXISTING	PROPOSED
50' NO DISTURB ZONE	<ul style="list-style-type: none"> UNDISTURBED NATURAL LAND AREA = 5,800 S.F. DISTURBED AND FILLED PERVIOUS AREA = 7,820 S.F. INDUSTRIAL BUILDING / PAVEMENT AREA = 5,270 S.F. TOTAL LAND AREA = 18,890 S.F. 	<ul style="list-style-type: none"> UNDISTURBED NATURAL LAND AREA = 5,800 S.F. IMPROVED SITE LANDSCAPE AREA = 11,550 S.F. IMPROVED SITE PAVEMENT AREA = 1,540 S.F. TOTAL LAND AREA = 18,890 S.F.
100' BUFFER ZONE	<ul style="list-style-type: none"> UNDISTURBED NATURAL LAND AREA = 12,425 S.F. DISTURBED AND FILLED PERVIOUS AREA = 11,400 S.F. INDUSTRIAL BUILDING / PAVEMENT AREA = 26,250 S.F. TOTAL LAND AREA = 50,075 S.F. 	<ul style="list-style-type: none"> UNDISTURBED NATURAL LAND AREA = 12,425 S.F. IMPROVED SITE LANDSCAPE AREA = 22,190 S.F. IMPROVED SITE PAVEMENT AREA = 15,470 S.F. TOTAL LAND AREA = 50,075 S.F.

AREA	EXISTING	PROPOSED
50' NO DISTURB ZONE	5,129 S.F. (0.14 Ac.) 3.2%	1,541 S.F. (0.04 Ac.) 0.8%
100' BUFFER ZONE	26,722 S.F. (0.61 Ac.) 14.3%	15,614 S.F. (0.36 Ac.) 8.3%
TOTAL SITE	135,776 S.F. (3.12 Ac.) 72.5%	128,024 S.F. (2.94 Ac.) 68.3%

REQUIRED VARIANCES REQUESTED

- SECTION 120-61 SCHEDULE OF DISTRICT REGULATIONS, TABLE 1: SCHEDULE OF DISTRICT REGULATIONS: 1. LOT COVERAGE AREA, TABLE 1: SCHEDULE OF DISTRICT REGULATIONS: VARIANCE TO EXCEED 80% LOT COVERAGE AREA.
- PER 120-62 FRONT YARD LANDSCAPING: THE FRONT YARD AREA COMPRISING THE MINIMUM REQUIRED FRONT YARD SETBACK DEPTH AND MEASURED ACROSS THE LOT WIDTH SHALL BE LANDSCAPED, EXCEPT FOR REQUIRED ACCESS DRIVEWAYS AND WALKWAYS.
- SECTION 120-64 4 SIGNS IN INDUSTRIAL DISTRICT.
- SECTION 120-74 - OFF-STREET PARKING - VARIANCE FROM MINIMUM REQUIRED SPACES.



NOTES

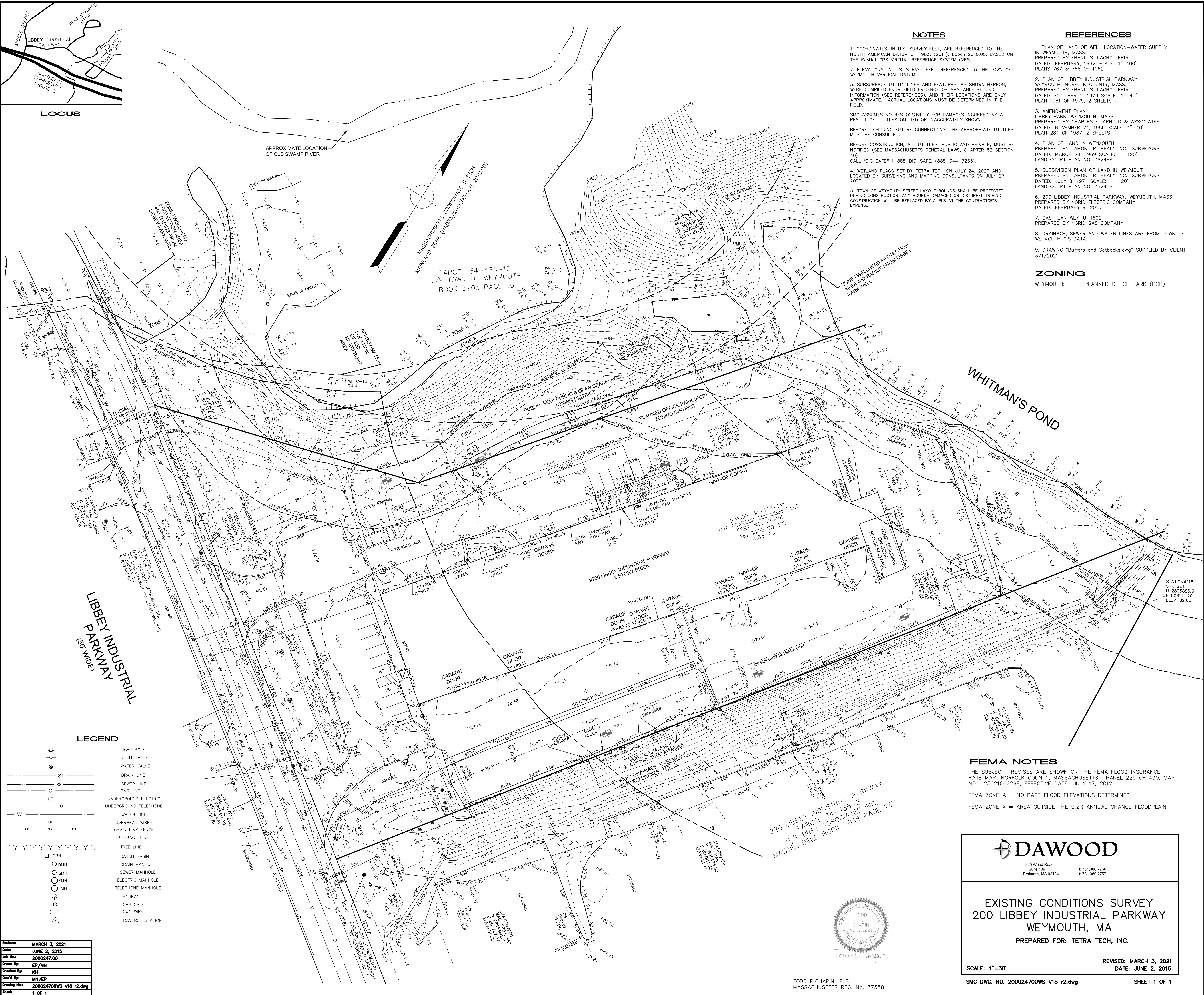
1. COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, (2011), Epoch 2010.00, BASED ON THE KeyNet GPS VIRTUAL REFERENCE SYSTEM (VRS).
2. ELEVATIONS, IN U.S. SURVEY FEET, REFERENCED TO THE TOWN OF WEYMOUTH VERTICAL DATUM.
3. SUBSURFACE UTILITY LINES AND FEATURES, AS SHOWN HEREON, WERE COMPILED FROM FIELD EVIDENCE OR AVAILABLE RECORD INFORMATION (SEE REFERENCES), AND THEIR LOCATIONS ARE ONLY APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
- SMC ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- BEFORE DESIGNING FUTURE CONNECTIONS, THE APPROPRIATE UTILITIES MUST BE CONSULTED.
- BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40). CALL "DIG SAFE" 1-888-DIG-SAFE, (888-344-7233).
4. WETLAND FLAGS SET BY TETRA TECH ON JULY 24, 2020 AND LOCATED BY SURVEYING AND MAPPING CONSULTANTS ON JULY 27, 2020.
5. TOWN OF WEYMOUTH STREET LAYOUT BOUNDS SHALL BE PROTECTED DURING CONSTRUCTION. ANY BOUNDS DAMAGED OR DISTURBED DURING CONSTRUCTION WILL BE REPLACED BY A PLS AT THE CONTRACTOR'S EXPENSE.

REFERENCES

1. PLAN OF LAND OF WELL LOCATION-WATER SUPPLY IN WEYMOUTH, MASS. PREPARED BY FRANK S. LACROTTERIA DATED: FEBRUARY, 1962 SCALE: 1"=100' PLANS 767 & 768 OF 1962
2. PLAN OF LIBBEY INDUSTRIAL PARKWAY WEYMOUTH, NORFOLK COUNTY, MASS. PREPARED BY FRANK S. LACROTTERIA DATED: OCTOBER 5, 1979 SCALE: 1"=40' PLAN 1081 OF 1979, 2 SHEETS
3. AMENDMENT PLAN LIBBEY PARK, WEYMOUTH, MASS. PREPARED BY CHARLES F. ARNOLD & ASSOCIATES DATED: NOVEMBER 24, 1986 SCALE: 1"=40' PLAN 284 OF 1987, 2 SHEETS
4. PLAN OF LAND IN WEYMOUTH PREPARED BY LAMONT R. HEALY INC., SURVEYORS DATED: MARCH 24, 1969 SCALE: 1"=120' LAND COURT PLAN NO. 36248A
5. SUBDIVISION PLAN OF LAND IN WEYMOUTH PREPARED BY LAMONT R. HEALY INC., SURVEYORS DATED: JULY 8, 1971 SCALE: 1"=120' LAND COURT PLAN NO. 36248B
6. 200 LIBBEY INDUSTRIAL PARKWAY, WEYMOUTH, MASS. PREPARED BY NGRID ELECTRIC COMPANY DATED: FEBRUARY 9, 2015
7. GAS PLAN WE-U-1602 PREPARED BY NGRID GAS COMPANY
8. DRAINAGE, SEWER AND WATER LINES ARE FROM TOWN OF WEYMOUTH GIS DATA.
9. DRAWING "Buffers and Setbacks.dwg" SUPPLIED BY CLIENT 3/1/2021

ZONING

WEYMOUTH: PLANNED OFFICE PARK (POP)



LIBBEY INDUSTRIAL PARKWAY
(60 WIDE)

LEGEND

- | | |
|-----|-----------------------|
| ST | LIGHT POLE |
| SS | UTILITY POLE |
| G | WATER VALVE |
| UE | DRAIN LINE |
| UT | SEWER LINE |
| W | GAS LINE |
| OE | UNDERGROUND ELECTRIC |
| XX | UNDERGROUND TELEPHONE |
| | WATER LINE |
| | OVERHEAD WIRES |
| | CHAIN LINK FENCE |
| | SETBACK LINE |
| | TREE LINE |
| CBN | CATCH BASIN |
| DMH | DRAIN MANHOLE |
| SMH | SEWER MANHOLE |
| EMH | ELECTRIC MANHOLE |
| TMH | TELEPHONE MANHOLE |
| | HYDRANT |
| | GAS GATE |
| | GUY WIRE |
| | TRAVERSE STATION |

Revision	MARCH 3, 2021
Date	JUNE 2, 2015
Job No.	2000247.00
Drawn By	EP/MN
Checked By	MN
Col'd By	MN/EP
Drawing No.	200024700WS V18 r2.dwg
Sheet	1 OF 1

FEMA NOTES

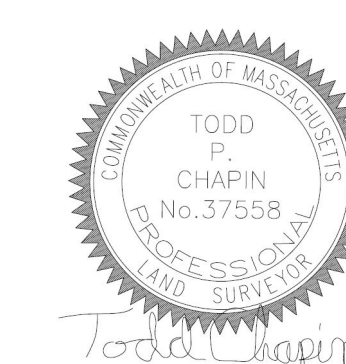
THE SUBJECT PREMISES ARE SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP, NORFOLK COUNTY, MASSACHUSETTS, PANEL 229 OF 430, MAP NO. 25021C0229E, EFFECTIVE DATE: JULY 17, 2012.

FEMA ZONE A = NO BASE FLOOD ELEVATIONS DETERMINED
FEMA ZONE X = AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

DAWOOD

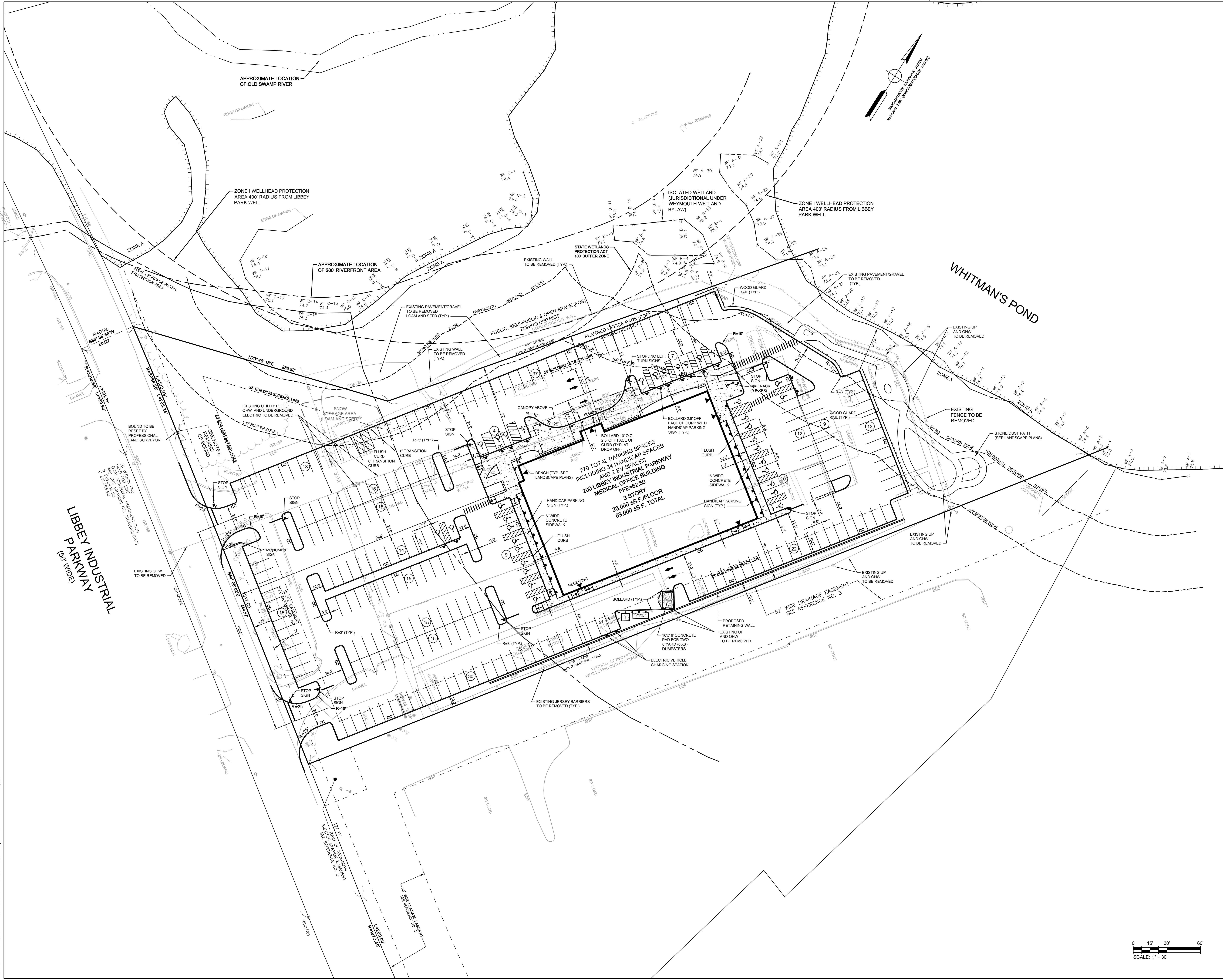
325 Wood Road
Suite 109
Braintree, MA 02184
t: 781.380.7766
f: 781.380.7757

EXISTING CONDITIONS SURVEY
200 LIBBEY INDUSTRIAL PARKWAY
WEYMOUTH, MA
PREPARED FOR: TETRA TECH, INC.



TODD P. CHAPIN, PLS
MASSACHUSETTS REG. NO. 37558

SCALE: 1"=30'
REVISED: MARCH 3, 2021
DATE: JUNE 2, 2015
SMC DWG. NO. 200024700WS V18 r2.dwg
SHEET 1 OF 1



DEVELOPER:
 FOXROCK 200 LIBBEY, LLC
 1200 Hancock Street, Suite 301
 Quincy, MA 02169



Civil Engineer
 Tetra Tech Inc.
 20 Cabot Boulevard, Suite 305
 Mansfield, MA 02048
 Tel 508-756-2200
 www.tetrattech.com



Landscape Architect
 Terraink Landscape Architecture
 7 Central Street, Suite 150
 Arlington, MA 02476
 Tel 781 316 1595
 www.terraink.com



Architect
 Isgenuity LLC
 500 Harrison Avenue, Suite 5F
 Boston, MA 02118
 Tel 617 419 4660
 www.isgenuty.com



MEP/FP Engineer
 R.W. Sullivan Engineering
 The Schraft Center
 529 Main Street, Suite 203
 Boston, MA 02129
 Tel 617 523 8227
 Fax 617 523 8016

Structural Engineer
 McNamara + Salva
 101 Federal Street, Suite 1100
 Boston, MA 02110
 Tel 617 737 0040
 www.mcsal.com

Issuance Schedule		
Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS



PROGRAMMING
 NOT FOR CONSTRUCTION

SITE LAYOUT PLAN

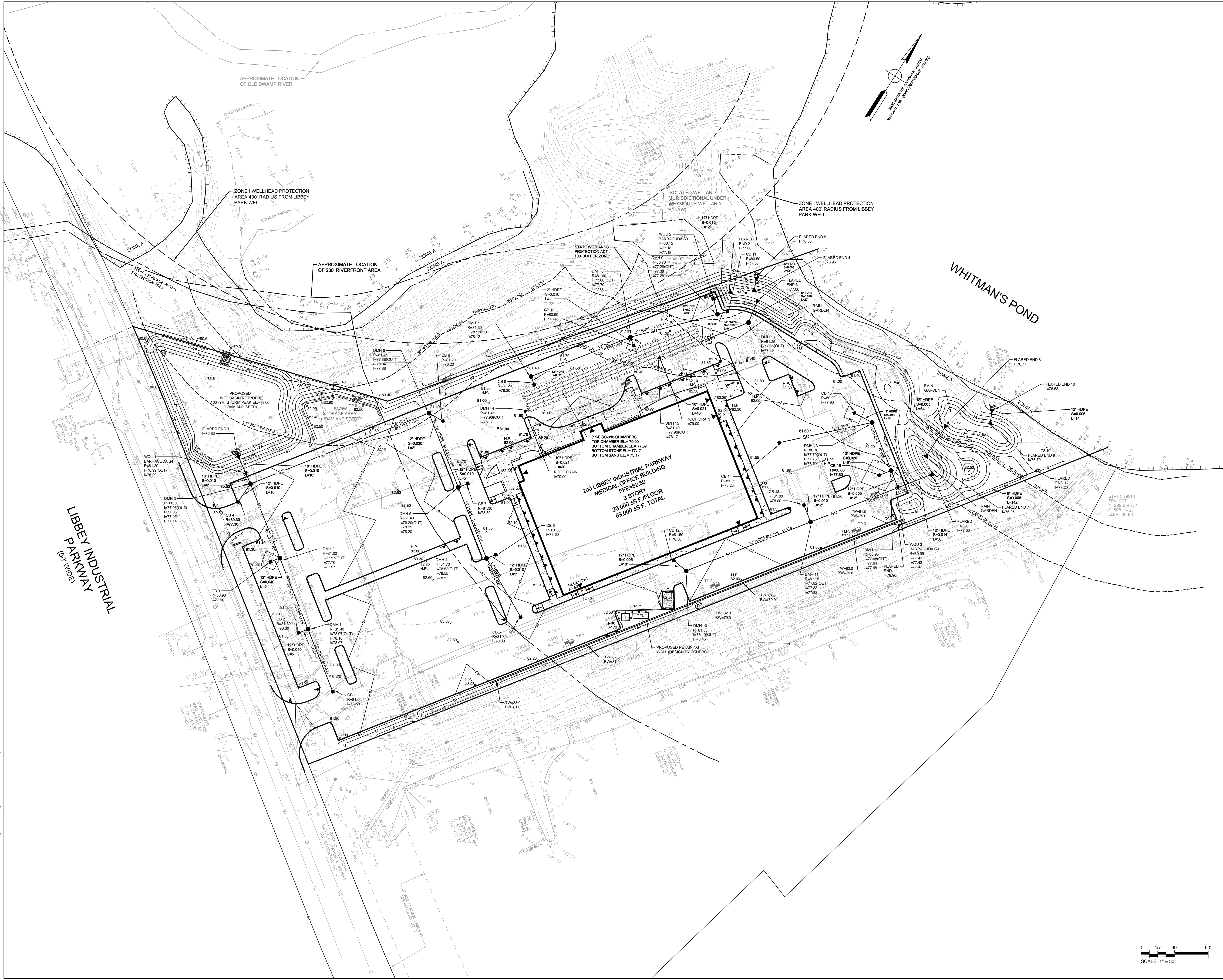
FoxRock 200 Libbey, LLC
Medical Office Building
200 Libbey Industrial Parkway
Weymouth, MA

Scale: Date Issued February 3, 2021



Project Number: 143-42892-20004

3/9/2021 - P:\42892\143-42892-20004\CAD\SheetFiles\C3 Layout_Plan.DWG - PAPPAS, JUD



DEVELOPER:
 FOXROCK 200 LIBBEY, LLC
 1200 Hancock Street, Suite 301
 Quincy, MA 02169



Civil Engineer
 Tetra Tech Inc.
 20 Cabot Boulevard, Suite 305
 Mansfield, MA 02048
 Tel 508-756-2200
 www.tetra-tech.com



Landscape Architect
 Terraink Landscape Architecture
 7 Central Street, Suite 150
 Arlington, MA 02476
 Tel 781 316 1595
 www.terraink.com



Architect
 Isgenuity LLC
 500 Harrison Avenue, Suite 5F
 Boston, MA 02118
 Tel 617 419 4660
 www.isgenuity.com



MEP/FP Engineer
 R.W. Sullivan Engineering
 The Schrafft Center
 529 Main Street, Suite 203
 Boston, MA 02129
 Tel 617 523 8227
 Fax 617 523 8016

Structural Engineer
 McNamara + Salva
 101 Federal Street, Suite 1100
 Boston, MA 02110
 Tel 617 737 0340
 www.mcsal.com

Issuance Schedule		
Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS



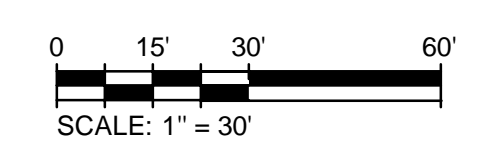
NORTH
 PROGRAMMING
 NOT FOR CONSTRUCTION

GRADING AND DRAINAGE PLAN

FoxRock 200 Libbey, LLC
 Medical Office Building
 200 Libbey Industrial Parkway
 Weymouth, MA

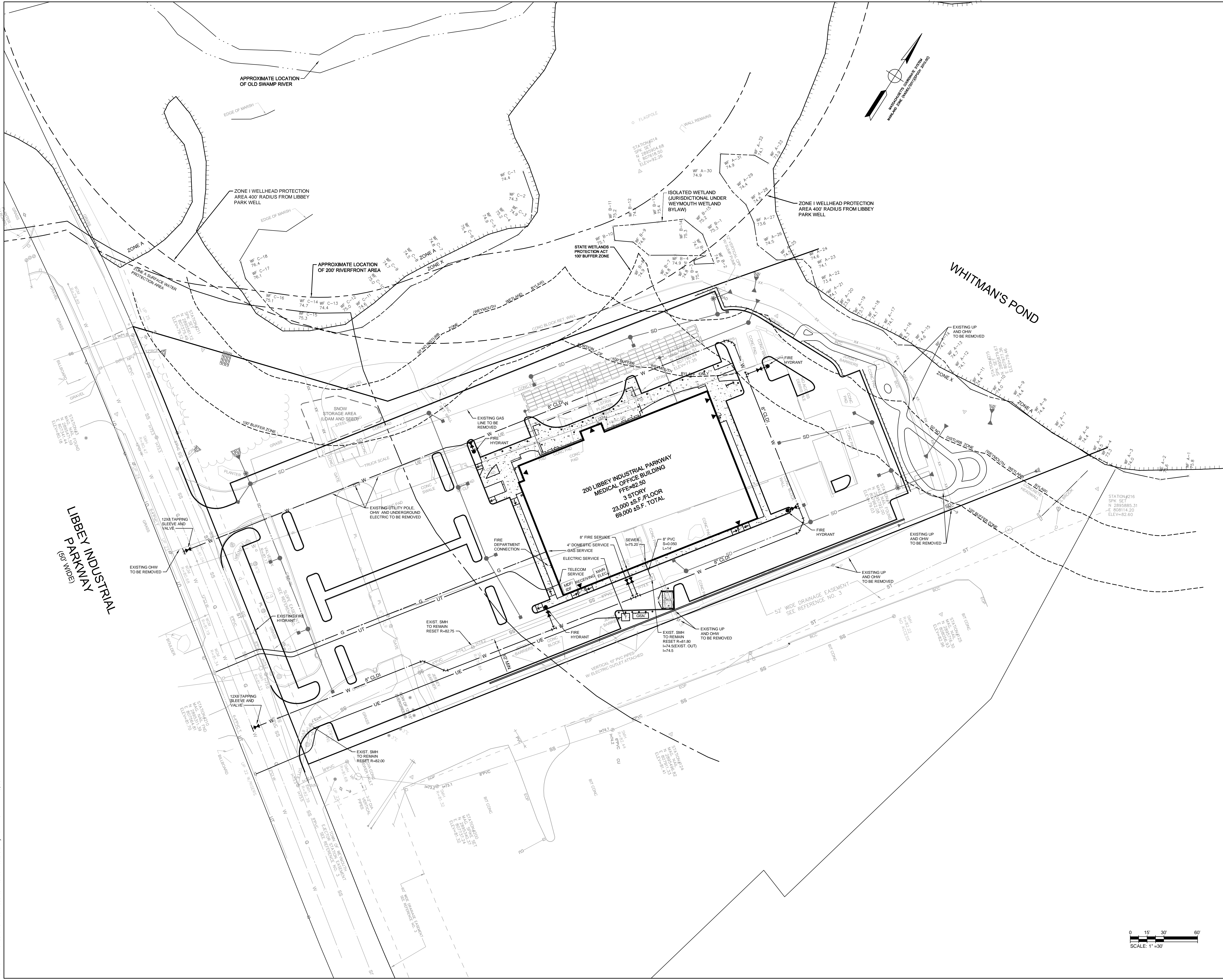
Scale: Date Issued February 3, 2021

C-4



Project Number: 143-42892-20004

3/9/2021 - P:\42892\143-42892-20004\CADD\SheetFiles\C-4 Grading and Drainage Plan.DWG - PAPPAS, JUD



DEVELOPER:
 FOXROCK 200 LIBBEY, LLC
 1200 Hancock Street, Suite 301
 Quincy, MA 02169



Civil Engineer
 Tetra Tech Inc.
 20 Cabot Boulevard, Suite 305
 Mansfield, MA 02048
 Tel 508-756-2200
 www.tetratech.com



Landscape Architect
 Terraink Landscape Architecture
 7 Central Street, Suite 150
 Arlington, MA 02476
 Tel 781 316 1595
 www.terraink.com



Architect
 Isgenuity LLC
 500 Harrison Avenue, Suite 5F
 Boston, MA 02118
 Tel 617 419 4660
 www.isgenuty.com



MEP/FP Engineer
 R.W. Sullivan Engineering
 The Schrafft Center
 529 Main Street, Suite 203
 Boston, MA 02129
 Tel 617 523 8227
 Fax 617 523 8016

Structural Engineer
 McNamara + Salva
 101 Federal Street, Suite 1100
 Boston, MA 02110
 Tel 617 737 0340
 www.mcsal.com

Issuance Schedule		
Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS

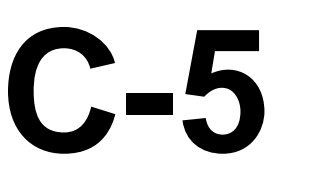


NORTH
 PROGRAMMING
 NOT FOR CONSTRUCTION

UTILITY PLAN

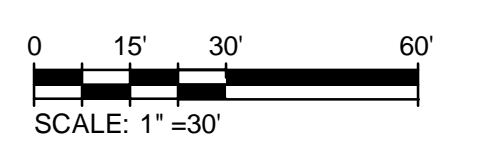
FoxRock 200 Libbey, LLC
 Medical Office Building
 200 Libbey Industrial Parkway
 Weymouth, MA

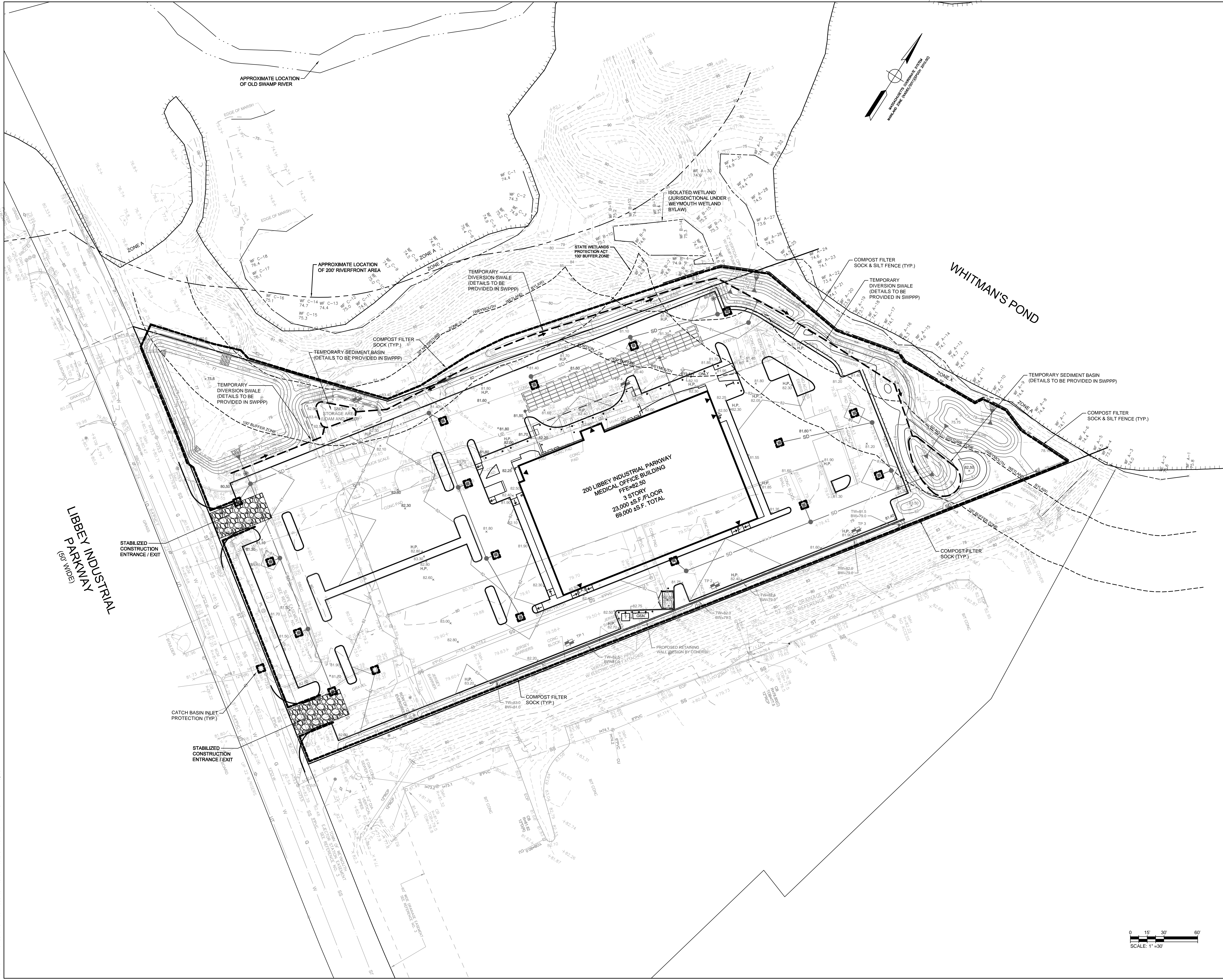
Scale: Date Issued February 3, 2021



Project Number: 143-42892-20004

3/9/2021 - P:\42892\143-42892-20004\CAD\SheetFiles\C-5 Utility Plan.DWG - PAPPAS, JUD





DEVELOPER:
 FOXROCK 200 LIBBEY, LLC
 1200 Hancock Street, Suite 301
 Quincy, MA 02169



Civil Engineer
 Tetra Tech Inc
 20 Cabot Boulevard, Suite 305
 Mansfield, MA 02048
 Tel 508-756-2200
 www.tetra-tech.com



Landscape Architect
 Terraink Landscape Architecture
 7 Central Street, Suite 150
 Arlington, MA 02476
 Tel 781 316 1595
 www.terraink.com



Architect
 Isgenuity LLC
 500 Harrison Avenue, Suite 5F
 Boston, MA 02118
 Tel 617 419 4660
 www.isgenuity.com



MEP/FP Engineer
 R.W. Sullivan Engineering
 The Schraft Center
 529 Main Street, Suite 203
 Boston, MA 02129
 Tel 617 523 8227
 Fax 617 523 8016

Structural Engineer
 McNamara + Salva
 101 Federal Street, Suite 1100
 Tel 617 737 0340
 www.mcsal.com

Issuance Schedule

Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS



PROGRAMMING
 NOT FOR CONSTRUCTION

EROSION AND SEDIMENT CONTROL PLAN

FoxRock 200 Libbey, LLC

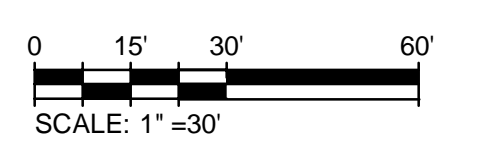
Medical Office Building
 200 Libbey Industrial Parkway
 Weymouth, MA

Scale: Date Issued February 3, 2021

C-6

Project Number: 143-42892-20004

3/9/2021 - P:\42892\143-42892-20004\CAD\SheetFiles\C-6 Erosion Control.dwg - P:\PPAS_AJD



Issuance Schedule

Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS



PROGRAMMING
 NOT FOR CONSTRUCTION

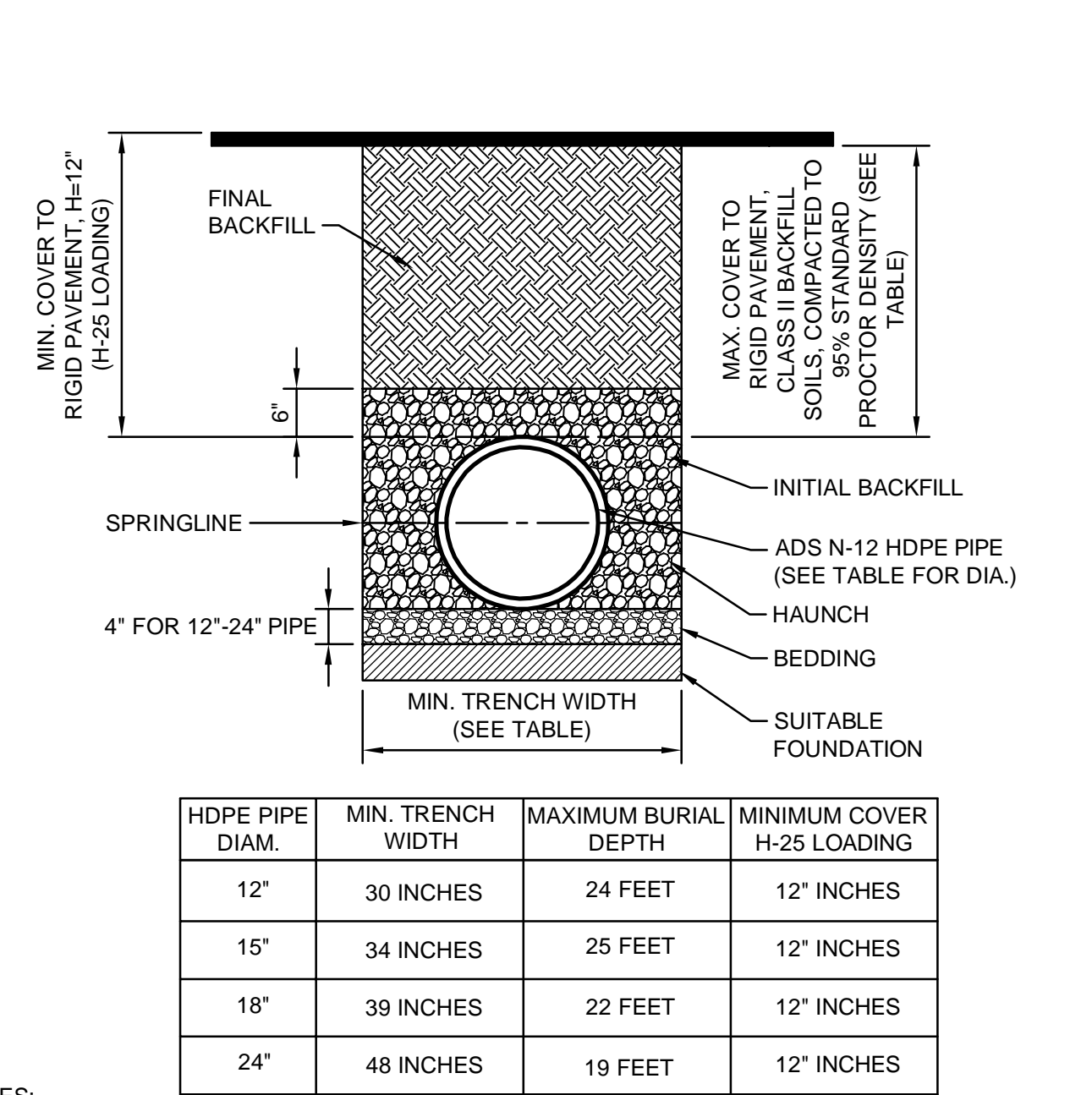
DETAIL SHEET

FoxRock 200 Libbey, LLC
Medical Office Building
 200 Libbey Industrial Parkway
 Weymouth, MA

Scale: Date Issued February 3, 2021

C-7

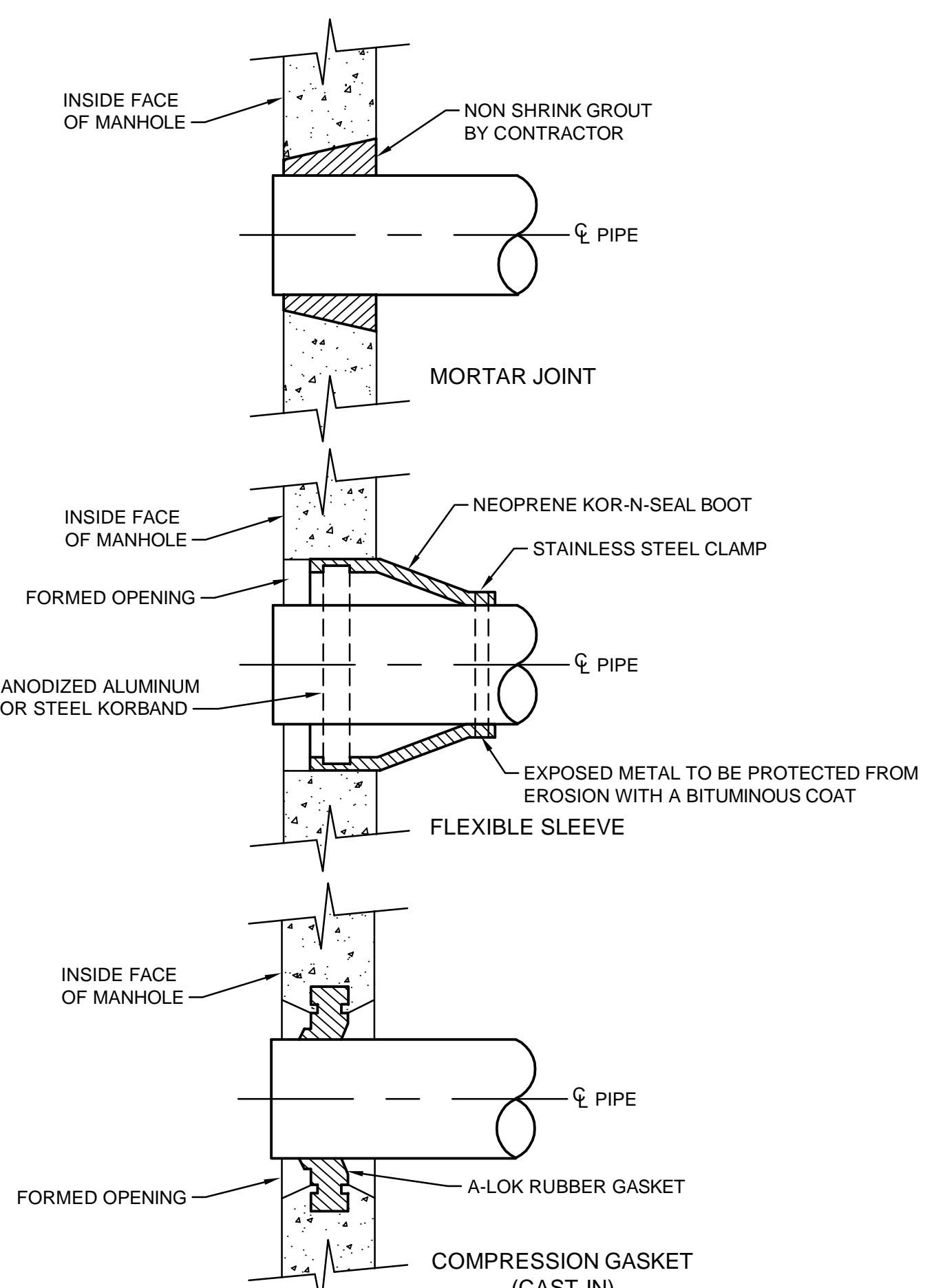
Project Number: 143-42892-2000A



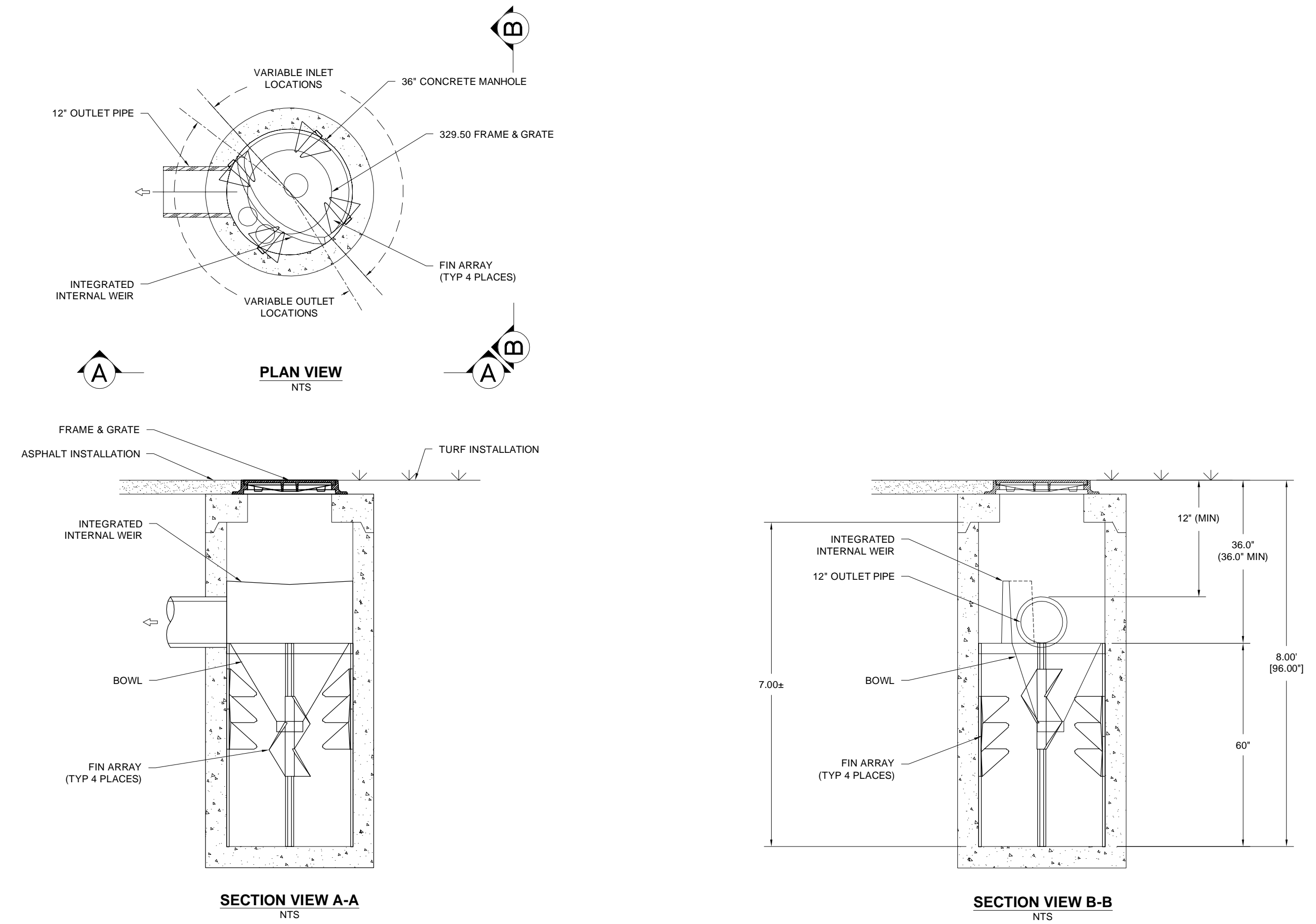
HDPE PIPE DIAM.	MIN. TRENCH WIDTH	MAXIMUM BURIAL DEPTH	MINIMUM COVER H-25 LOADING
12"	30 INCHES	24 FEET	12" INCHES
15"	34 INCHES	25 FEET	12" INCHES
18"	39 INCHES	22 FEET	12" INCHES
24"	48 INCHES	19 FEET	12" INCHES

- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS". LATEST ADDITION
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4'-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

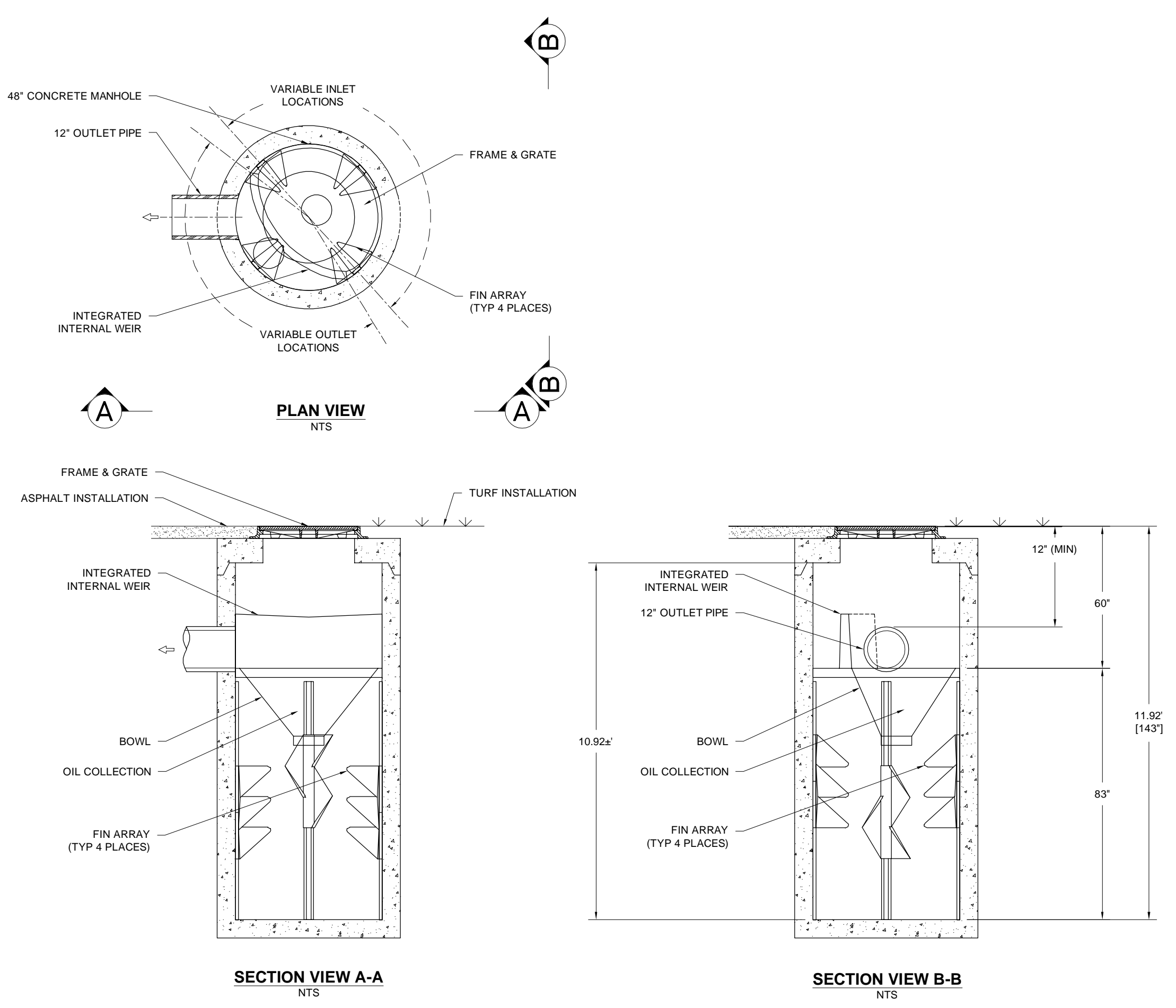
HDPE PIPE INSTALLATION
 NOT TO SCALE



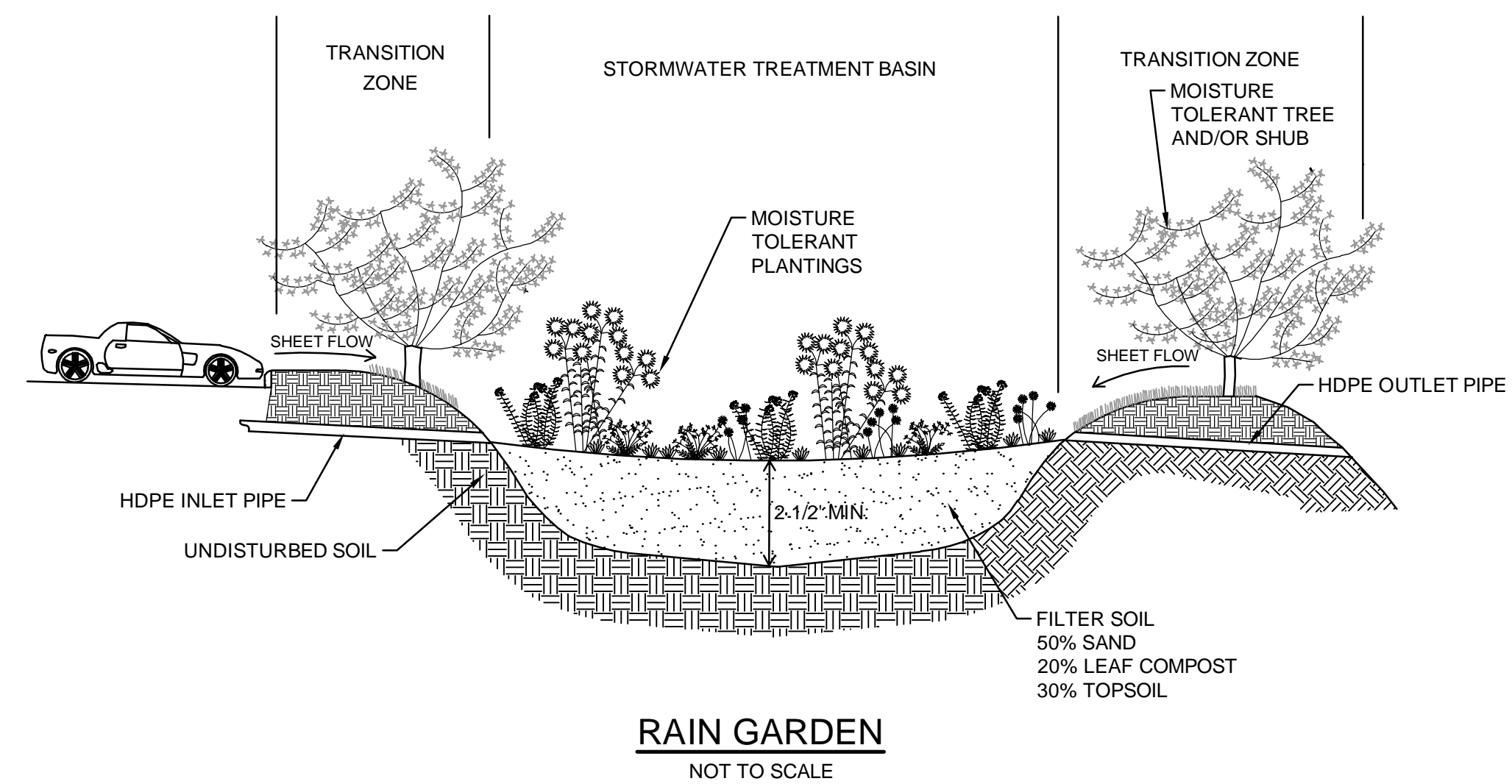
PIPE TO MANHOLE CONNECTIONS
 NOT TO SCALE



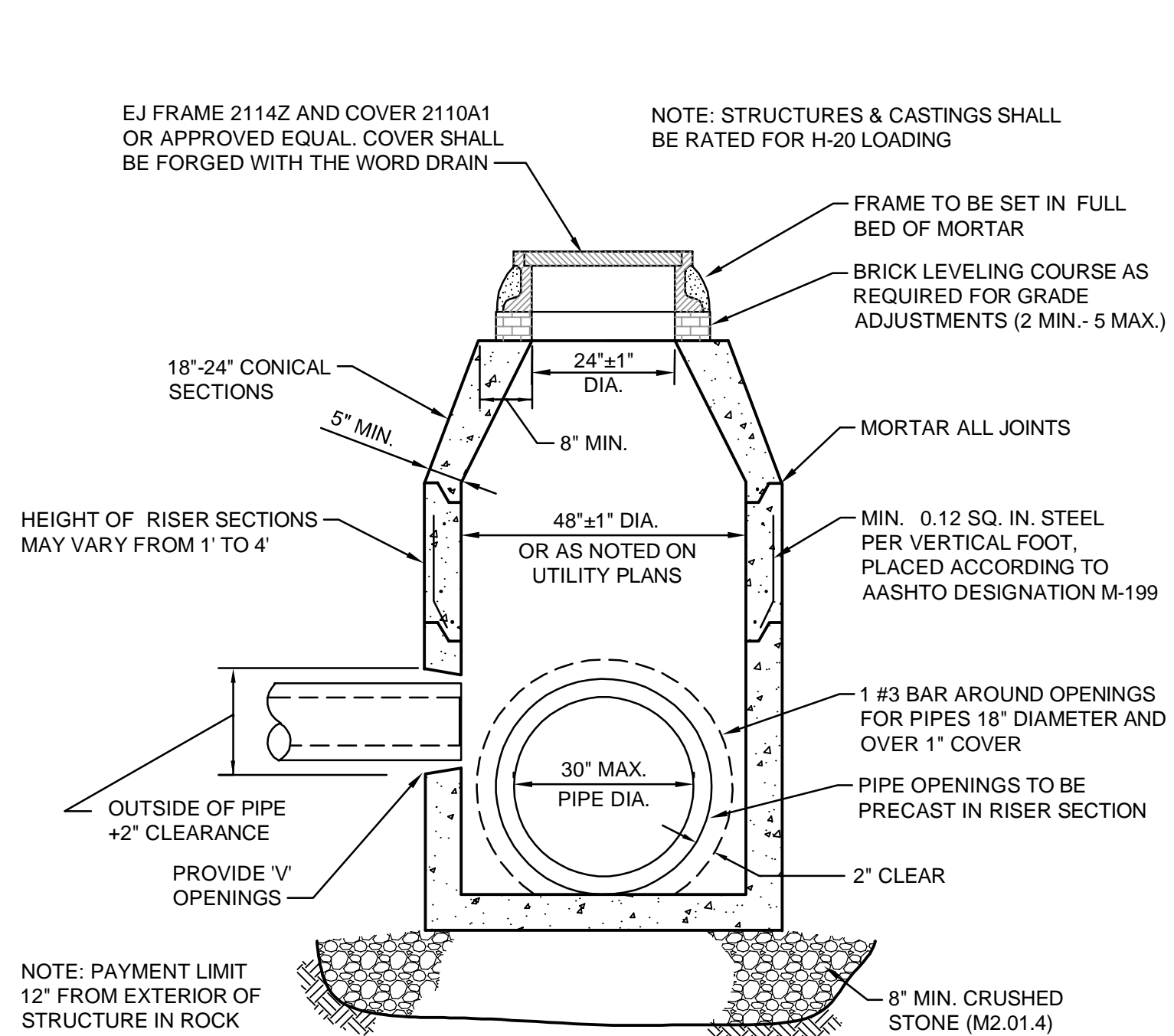
WATER QUALITY UNIT
ADS BARRACUDA S3
 NOT TO SCALE



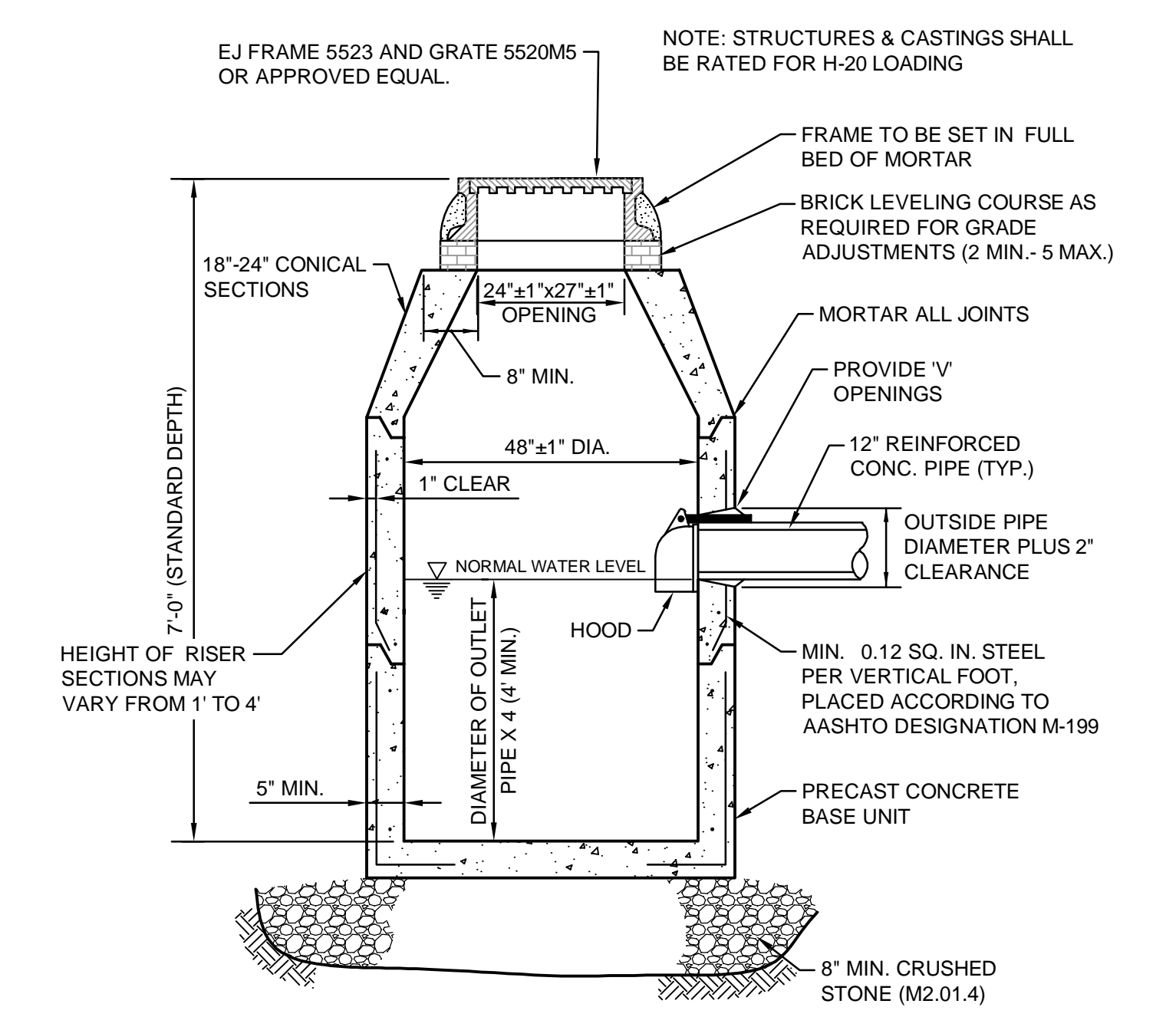
ADS BARRACUDA S4
 NOT TO SCALE



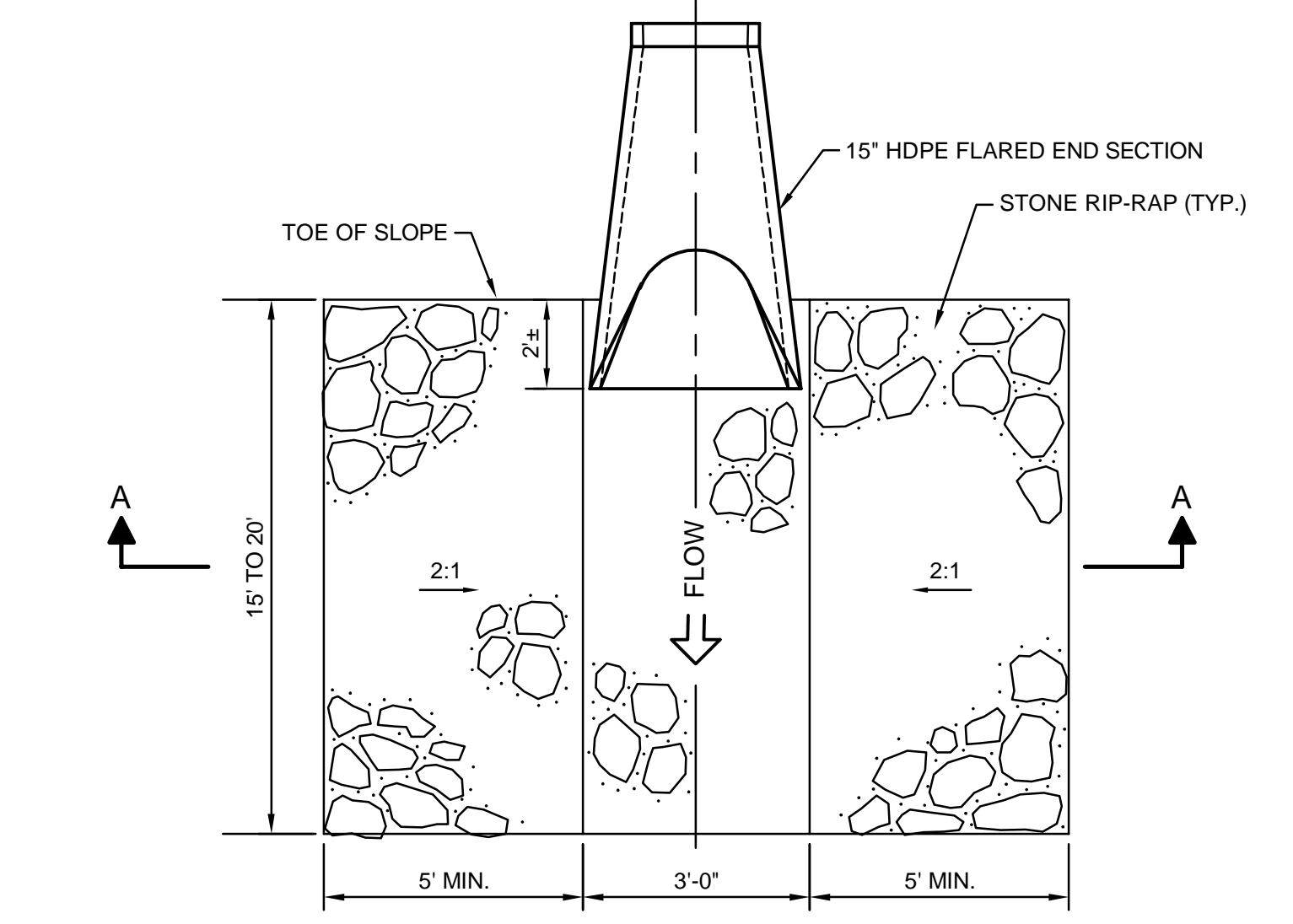
RAIN GARDEN
 NOT TO SCALE



PRECAST CONCRETE DRAIN MANHOLE
 9 FEET OR LESS IN DEPTH
 NOT TO SCALE

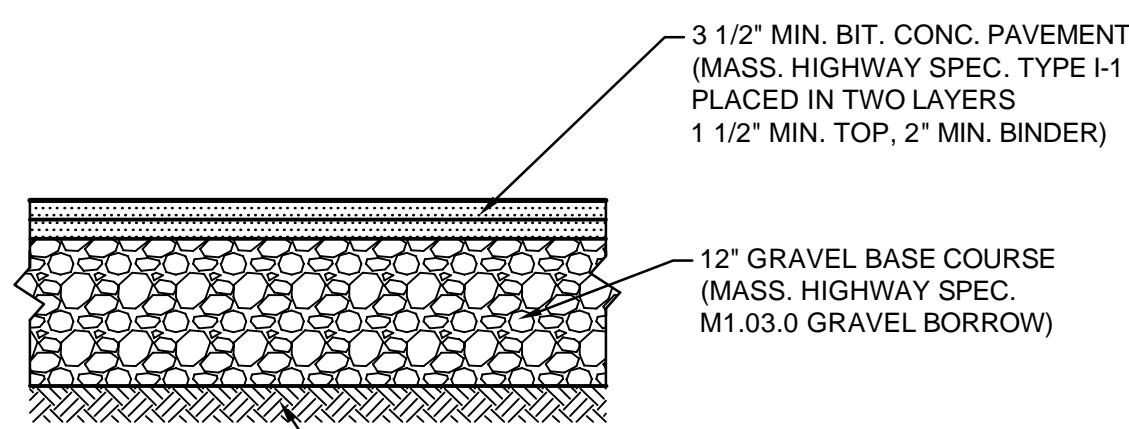


PRECAST CONCRETE CATCH BASIN
 NOT TO SCALE

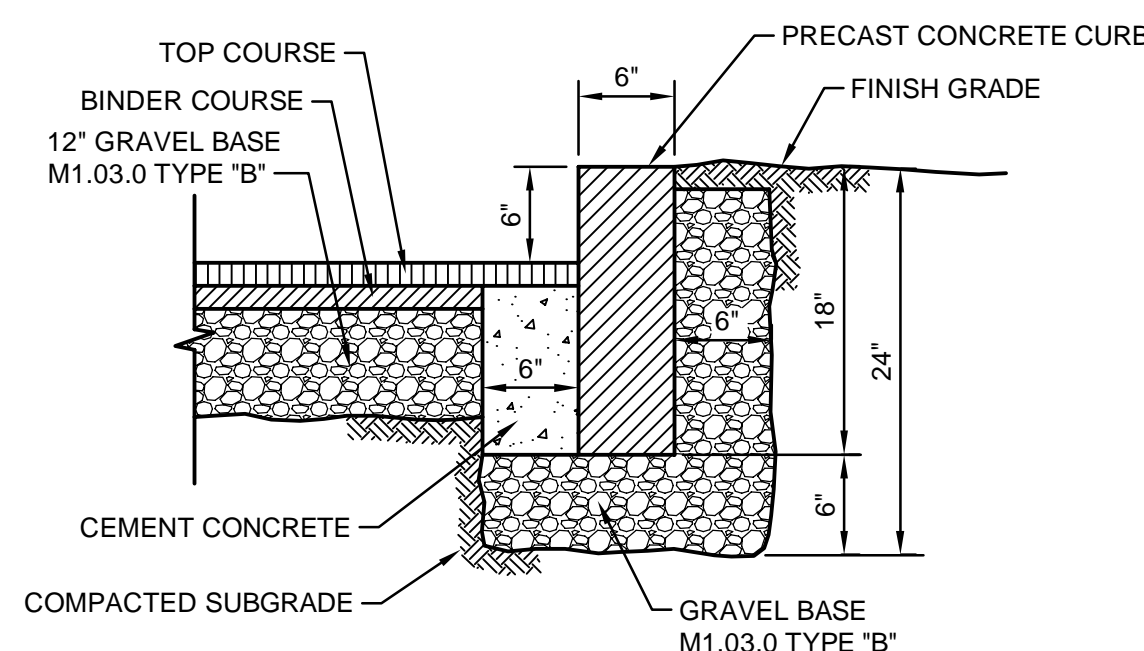


OUTLET EROSION PROTECTION
 NOT TO SCALE

3/9/2021 - P:\42892\143-42892-2000A\CAD\SheetFiles\C-Details\SheetC-DWG - PAPPAS, JUD

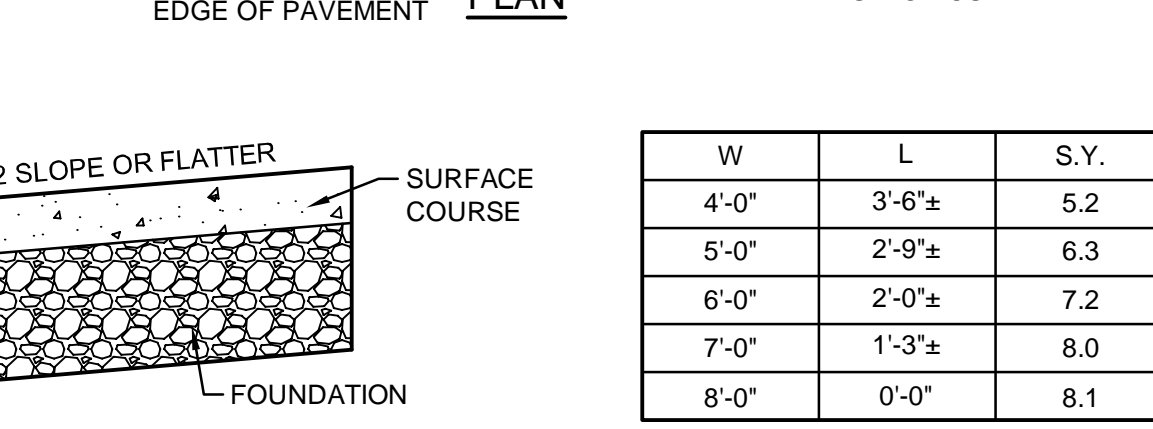
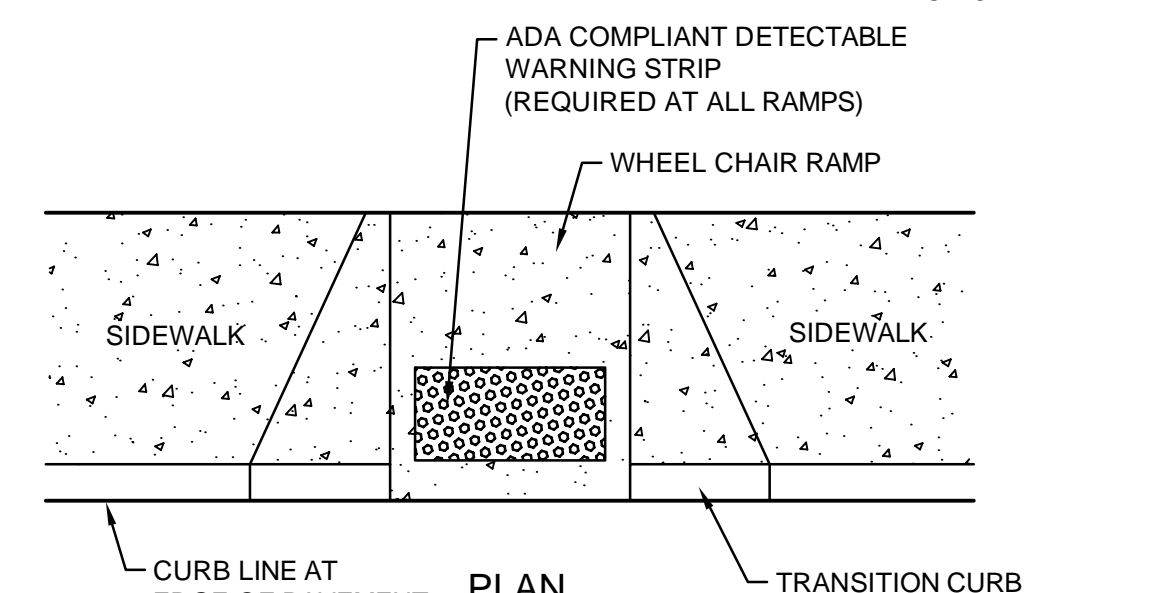
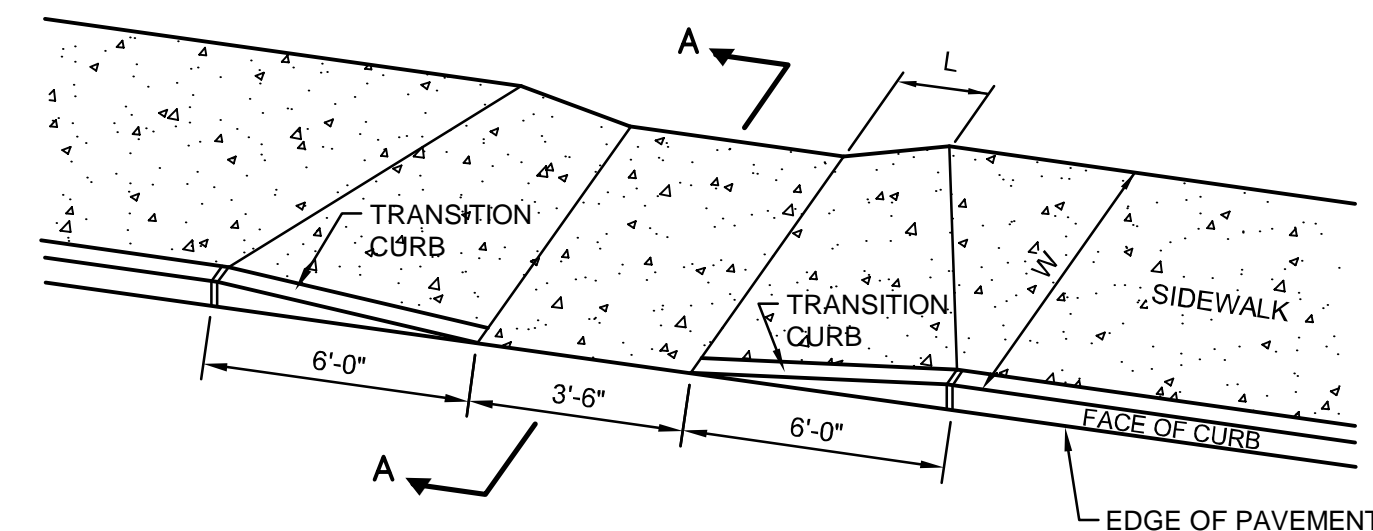


PAVEMENT SECTION
NOT TO SCALE



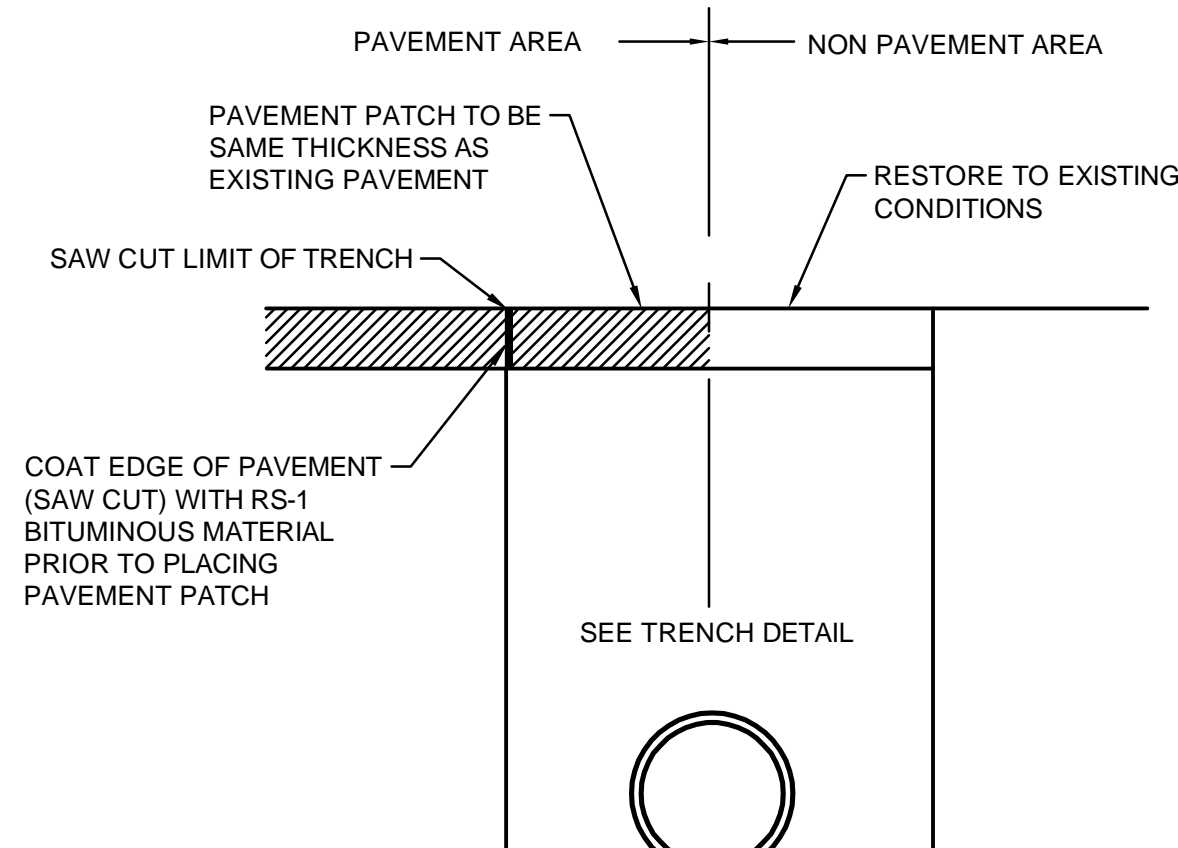
NOTE:
CEMENT CONCRETE BACKING TO BE PROVIDED AT ALL JOINTS AND AT CURB MID SECTION FOR SPANS GREATER THAN 3 FEET. CONCRETE BACKING TO BE PLACED FROM BASE TO WITHIN 9 INCHES OF GRADE AND SPAN 1 FOOT AT JOINTS AND 1.5 FEET AT MID SECTION.

PRECAST CONCRETE CURB
NOT TO SCALE

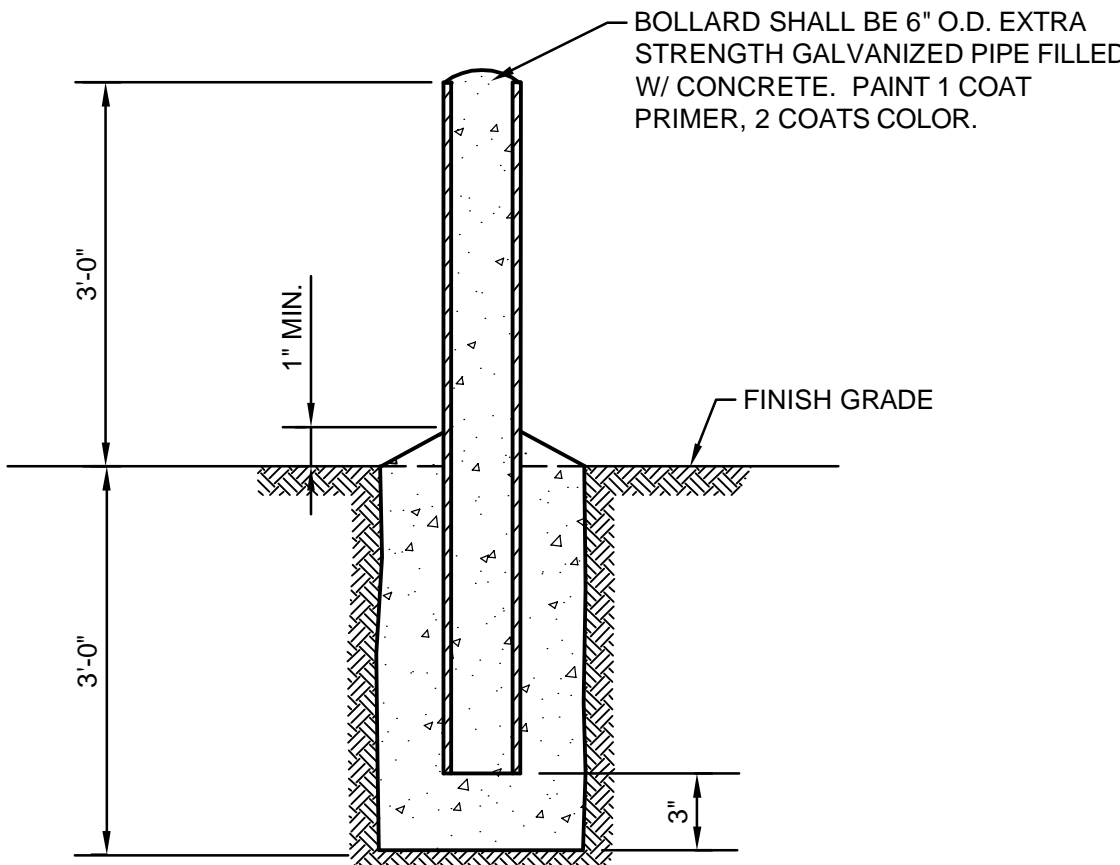


WHEEL CHAIR RAMP
FOR SIDEWALKS UP TO 8' WIDE
NOT TO SCALE

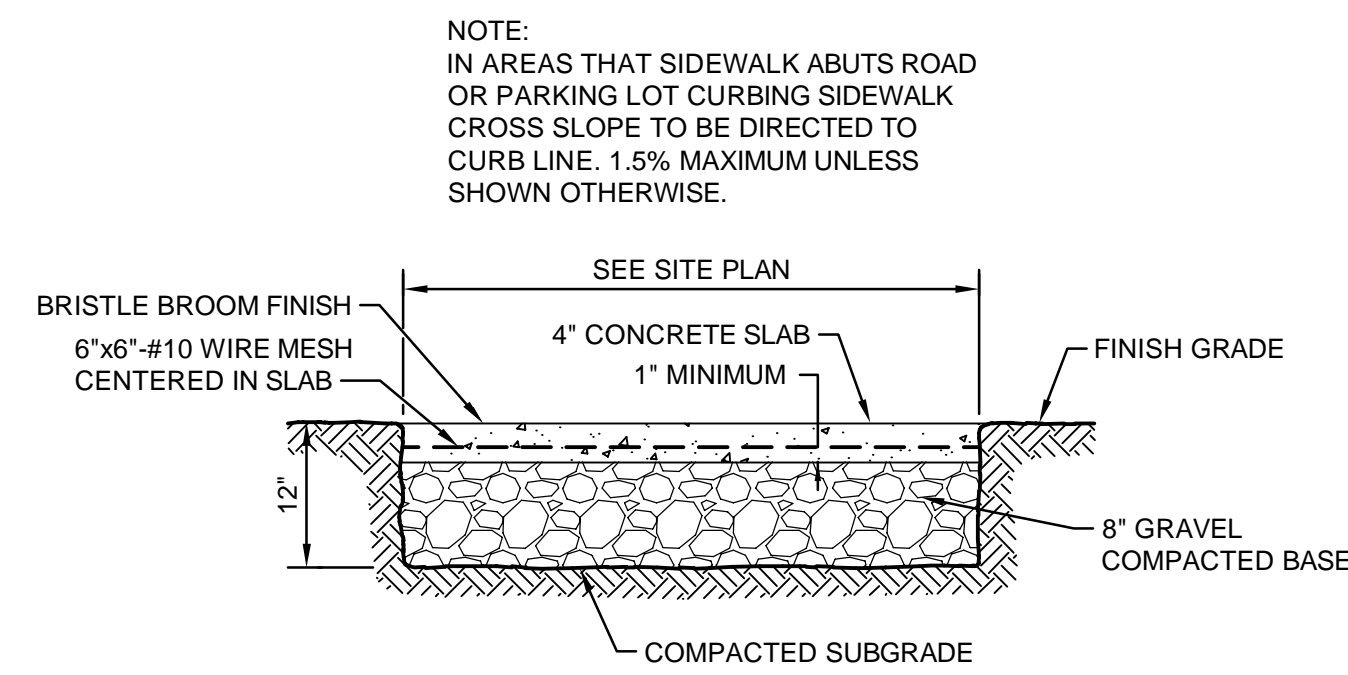
W	L	S.Y.
4'-0"	3'-6"	5.2
5'-0"	2'-9"	6.3
6'-0"	2'-0"	7.2
7'-0"	1'-3"	8.0
8'-0"	0'-0"	8.1



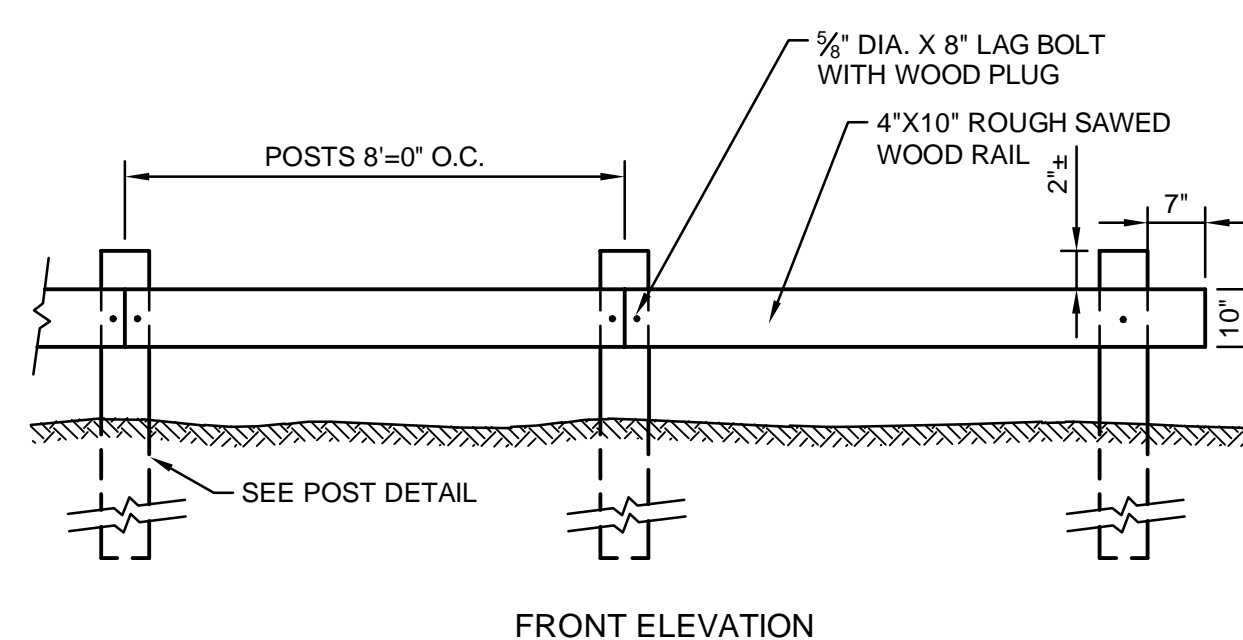
PAVEMENT PATCH
NOT TO SCALE



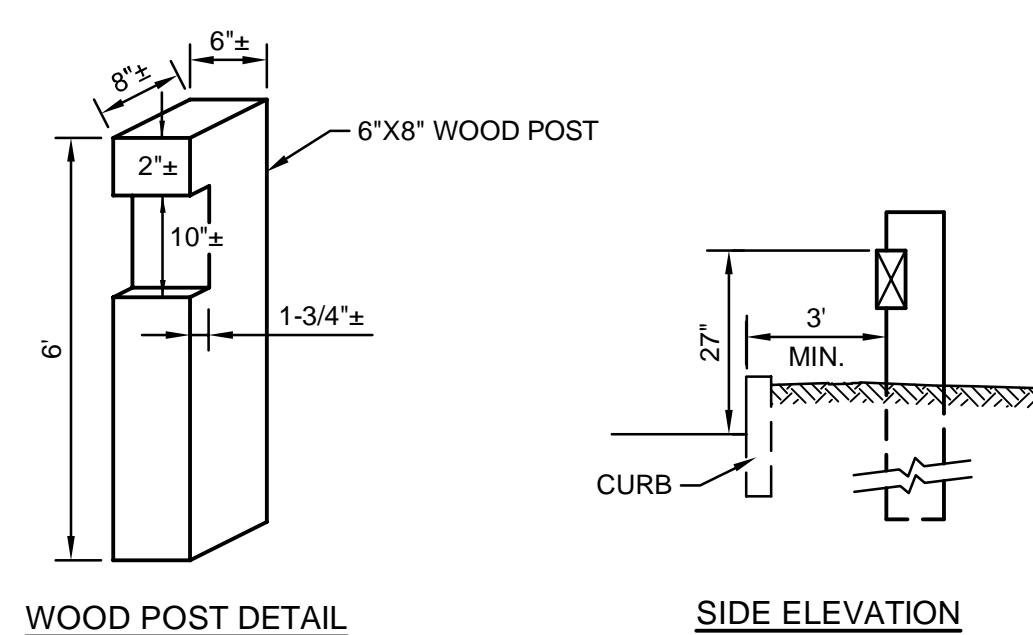
BOLLARD
NOT TO SCALE



CEMENT CONCRETE WALK
NOT TO SCALE

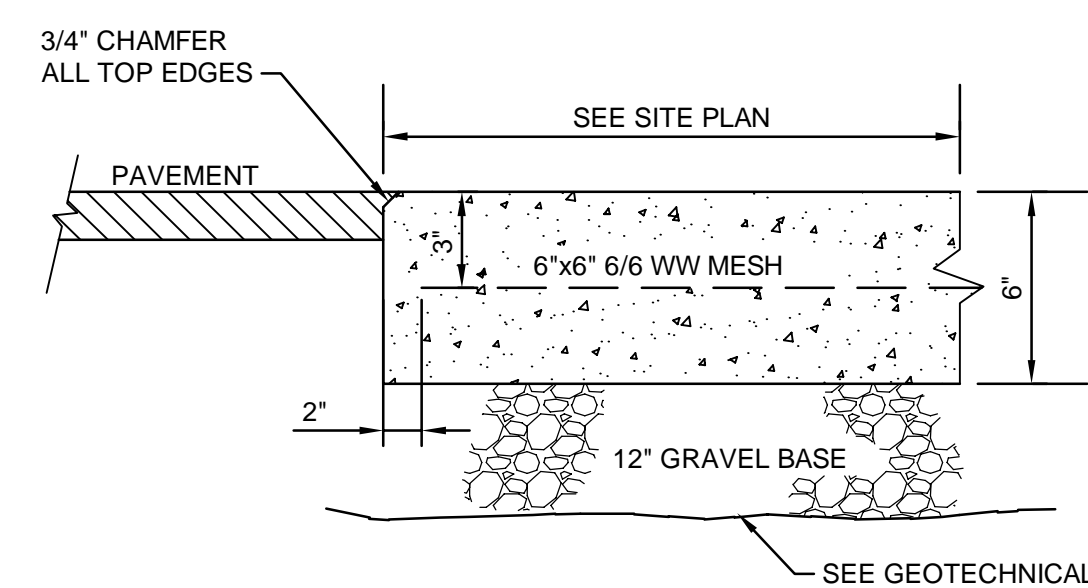


WOOD GUARD RAIL
NOT TO SCALE

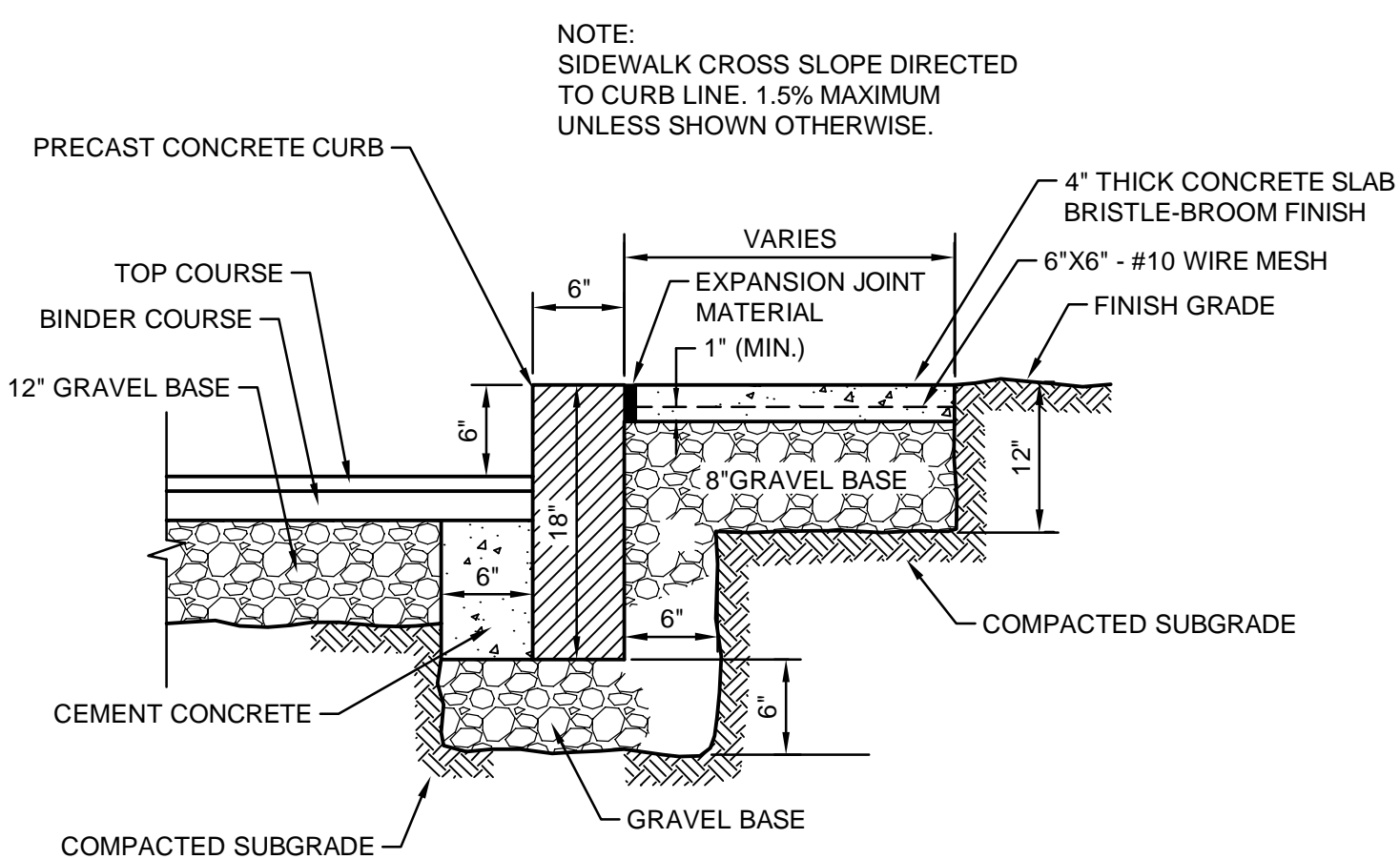


NOTES:
1. ALL TIMBER TO BE PRESSURE TREATED.
2. POSTS TO BE SPACED CLOSER THAN 8'-0" ON CENTER AS REQUIRED TO MAINTAIN LOCATION OF GUARD RAIL ALONG EDGE OF DRIVE

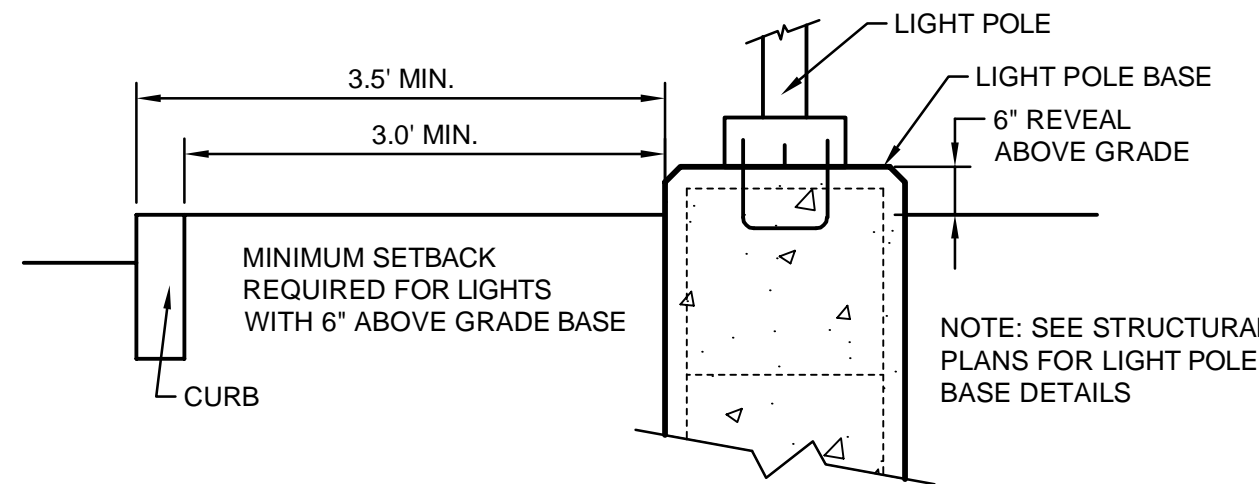
WOOD GUARD RAIL
NOT TO SCALE



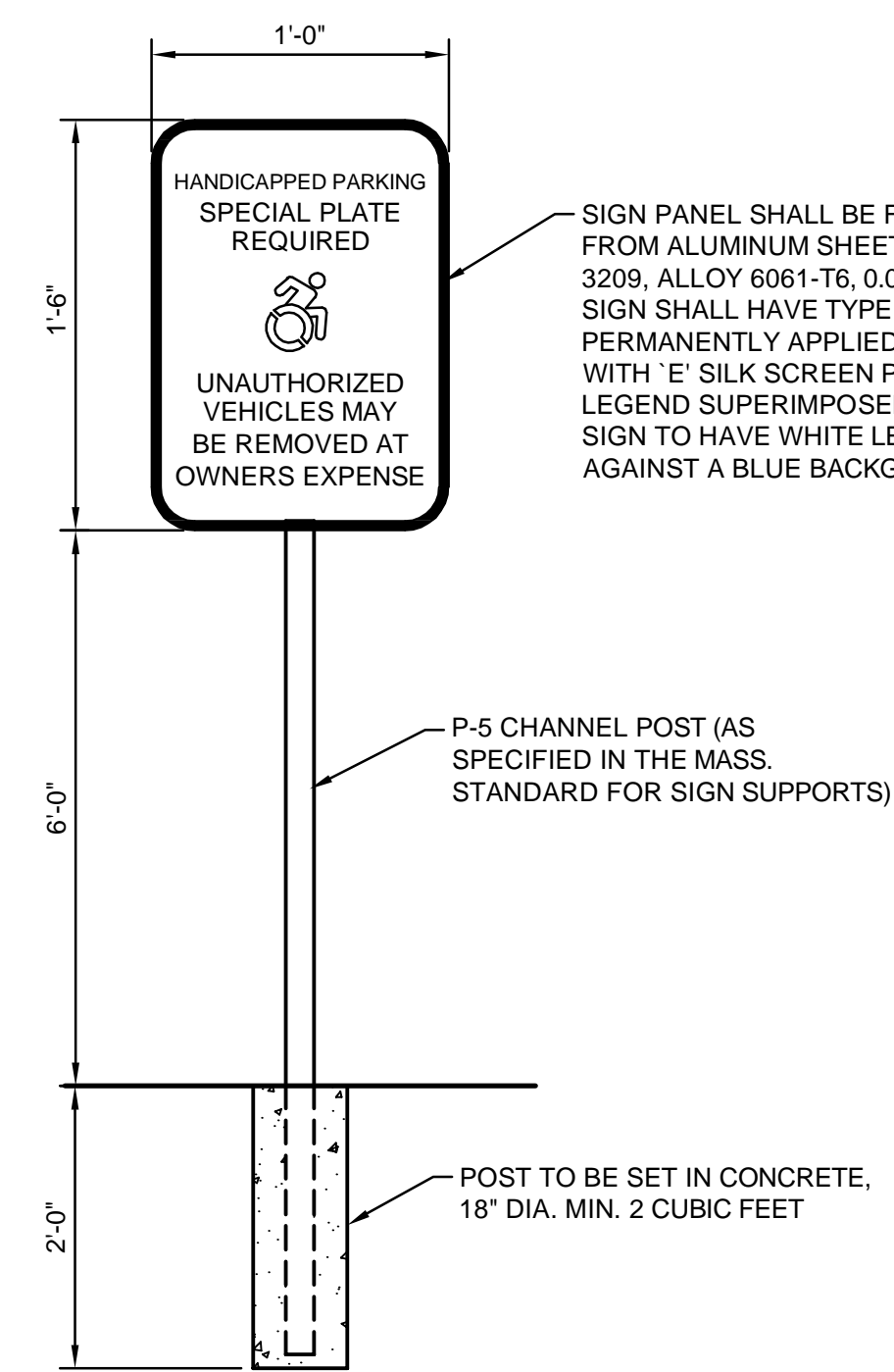
CONCRETE COMPACTOR PAD
NOT TO SCALE



CONCRETE CURB & SIDEWALK
NOT TO SCALE



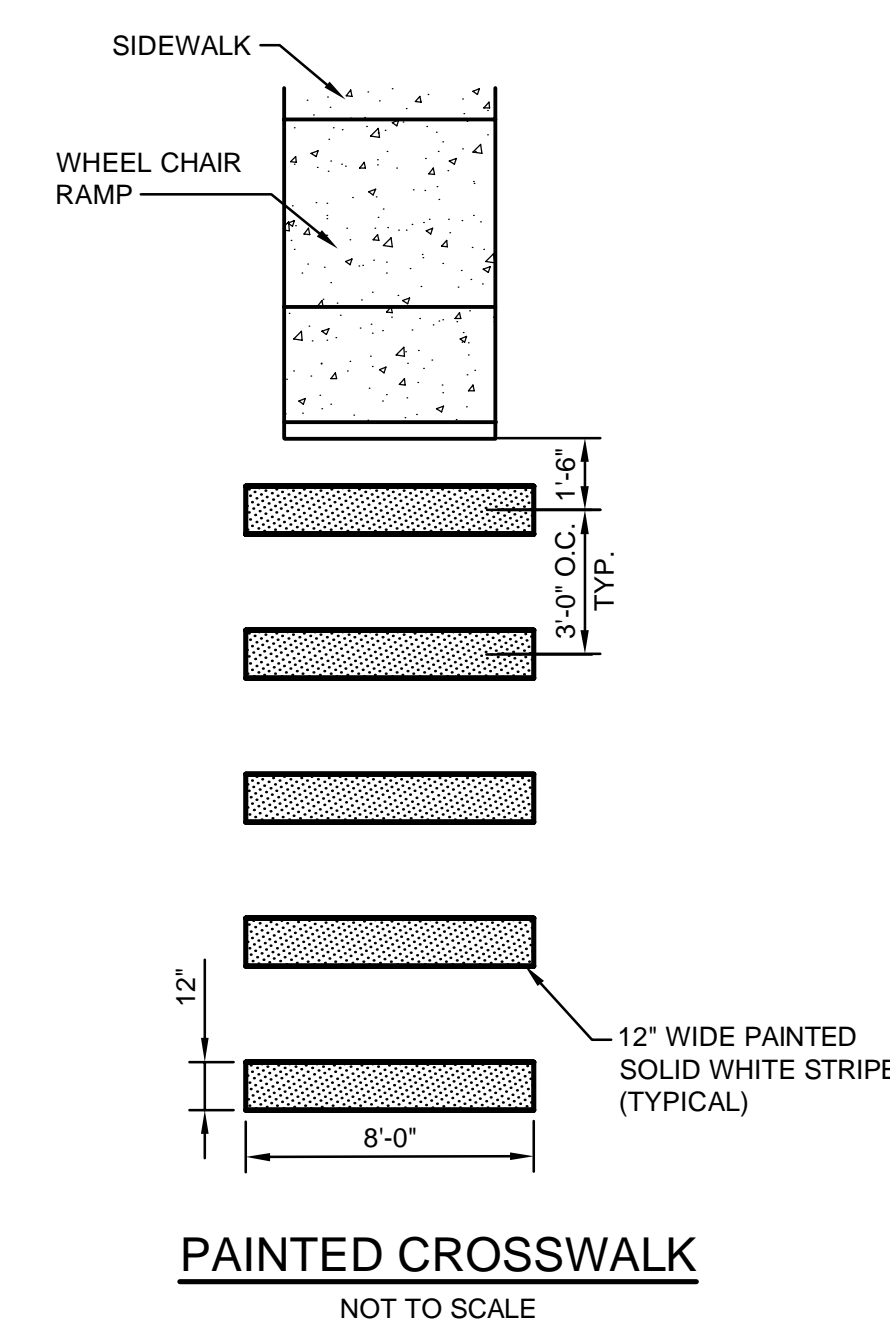
LIGHT POLE SETBACK
NOT TO SCALE



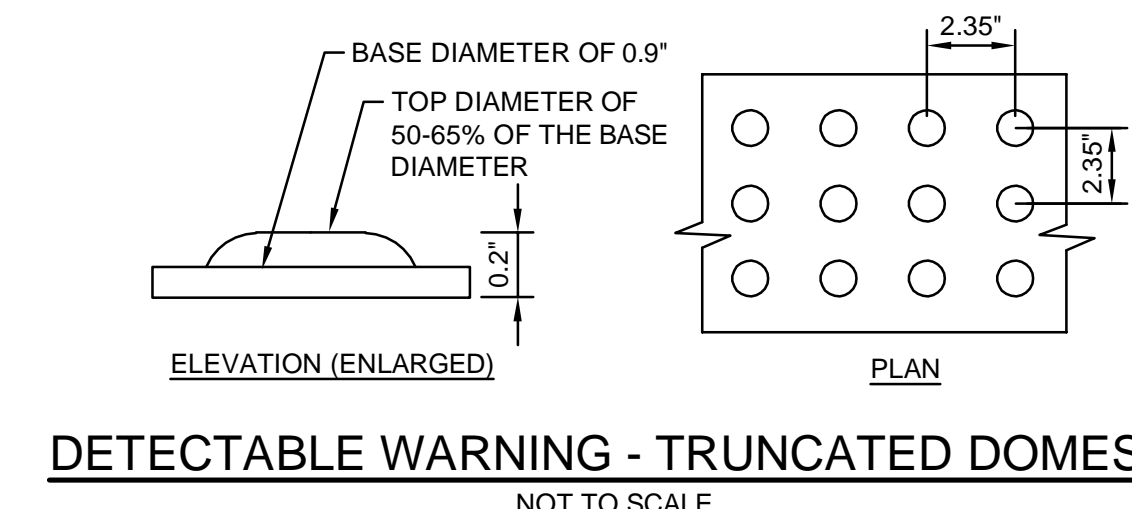
HANDICAP PARKING SIGN
NOT TO SCALE



HANDICAP PARKING PAVEMENT MARKING
NOT TO SCALE



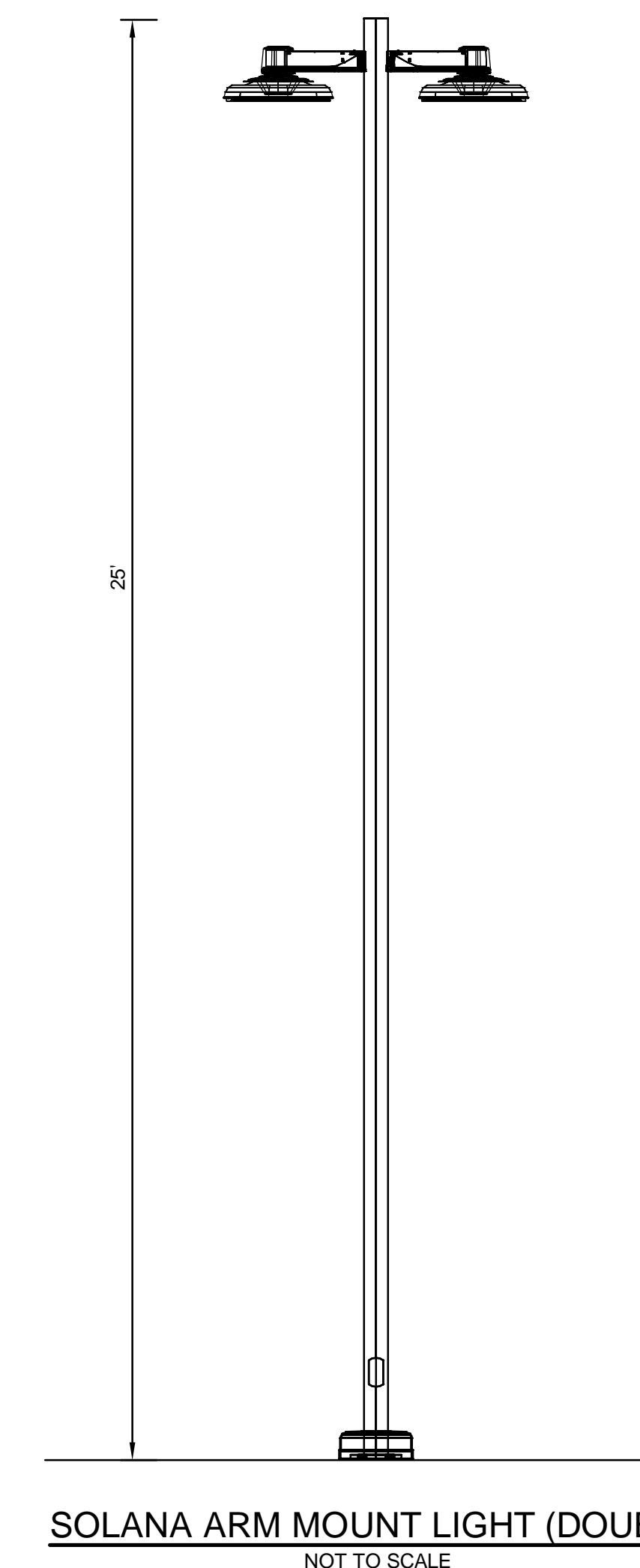
PAINTED CROSSWALK
NOT TO SCALE



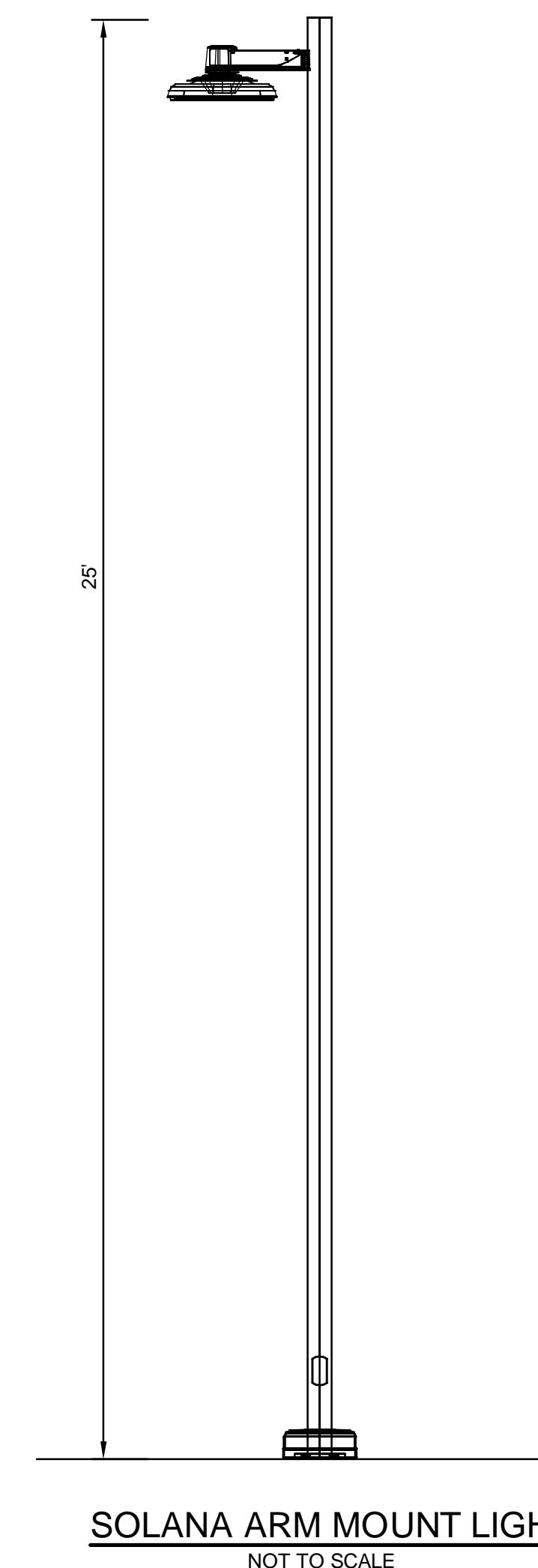
DETECTABLE WARNING - TRUNCATED DOMES
NOT TO SCALE

- THE MAXIMUM ALLOWABLE ROUTE (SIDEWALK) AND CURB RAMP CROSS SLOPES SHALL BE 2.0% MAX.
- THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMP SHALL NOT EXCEED 1:12
- A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
- BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.
- SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
- ALL SLOPING SURFACES AT WHEEL CHAIR RAMPS FOR SIDEWALKS SHALL HAVE DETECTABLE WARNING-TRUNCATED DOMES AND COLOR CONCRETE
- DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23 MM), A HEIGHT OF NOMINAL 0.2 IN (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60 MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% CONTRAST IN PERCENT IS DETERMINED BY: CONTRAST = [(B1 - B2)/B1] X 100 WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA. B1 SHALL NEVER EQUAL 100 AND B2 SHALL ALWAYS BE GREATER THAN 0.
- ALL PROPOSED WHEELCHAIR RAMPS SHALL HAVE A PEDESTRIAN WARNING SURFACE MEETING THE REQUIREMENTS OF THE ADA GUIDELINES. (SEE SPECIFICATIONS). ALL WHEELCHAIR RAMPS SHALL BE CONSTRUCTED WITH COLOR TINTED CONCRETE MEETING THE ADA GUIDELINES FOR CONTRASTING COLOR. FINAL COLOR TO BE DETERMINED BY THE ARCHITECT. ALL CONCRETE SHALL BE 4000 PSI PER ASTM C-260 AND THE PROJECT SPECIFICATIONS.
- AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
- THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE WITHIN 1/2' WITH THE ROADWAY.

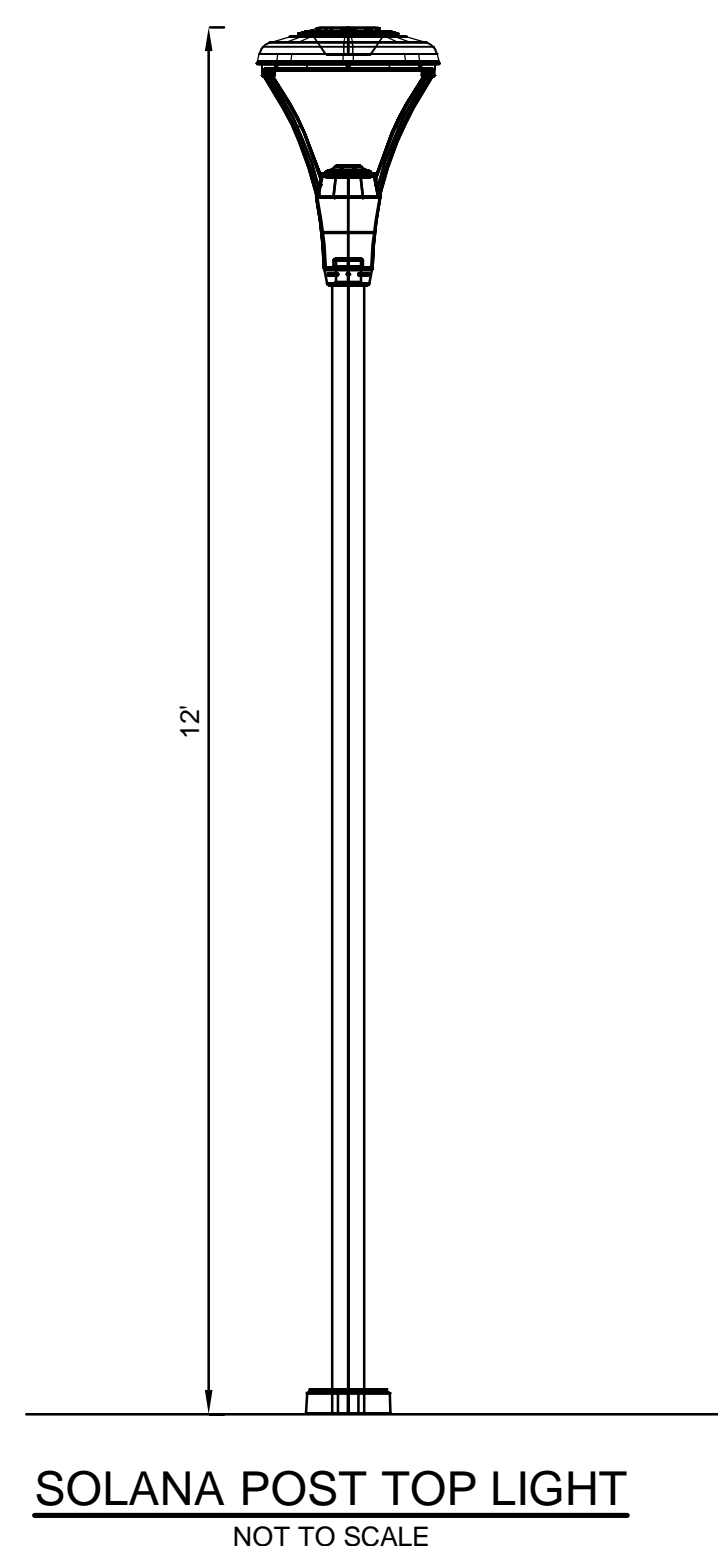
ACCESSIBLE CURB RAMP / ROUTE NOTES



SOLANA ARM MOUNT LIGHT (DOUBLE)
NOT TO SCALE



SOLANA ARM MOUNT LIGHT
NOT TO SCALE



SOLANA POST TOP LIGHT
NOT TO SCALE

DEVELOPER:
FOXROCK 200 LIBBEY, LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169



Civil Engineer
Tetra Tech Inc
20 Cabot Boulevard, Suite 305
Mansfield, MA 02048
Tel 508-756-2200
www.tetrattech.com



Landscape Architect
Terraink Landscape Architecture
7 Central Street, Suite 150
Arlington, MA 02476
Tel 781 316 1595
www.terraink.com



Architect
Isgenuity LLC
500 Harrison Avenue, Suite 5F
Boston, MA 02118
Tel 617 419 4660
www.isgenuty.com



MEP/FP Engineer
R.W. Sullivan Engineering
The Schraft Center
529 Main Street, Suite 203
Boston, MA 02129
Tel 617 523 8227
Fax 617 523 8016

Structural Engineer
McNamara + Salvia
101 Federal Street, Suite 1100
Boston, MA 02110
Tel 617 737 0340
www.mcsal.com

Issuance Schedule

Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS



PROGRAMMING
NOT FOR CONSTRUCTION

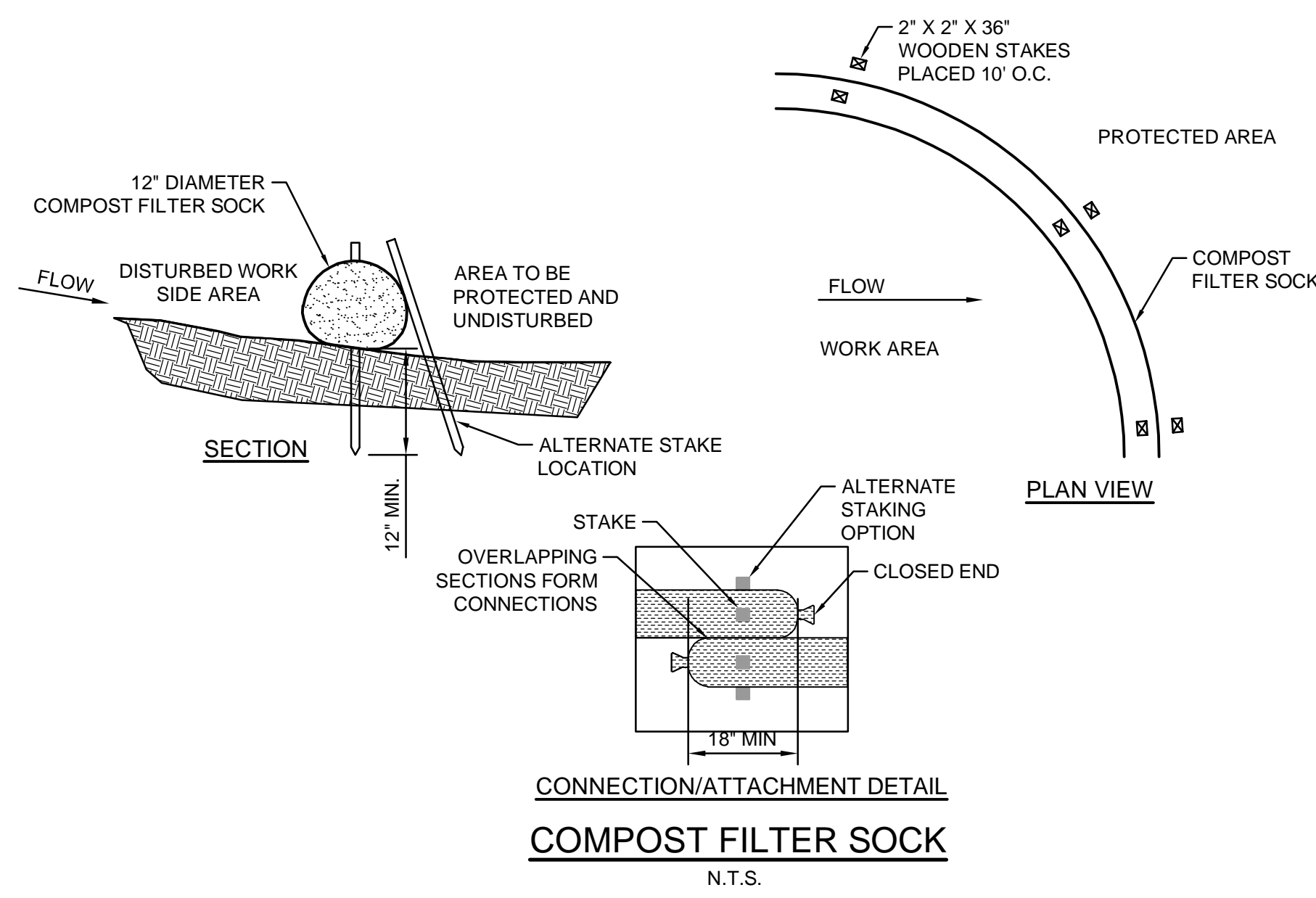
DETAIL SHEET

FoxRock 200 Libbey, LLC
Medical Office Building
200 Libbey Industrial Parkway
Weymouth, MA

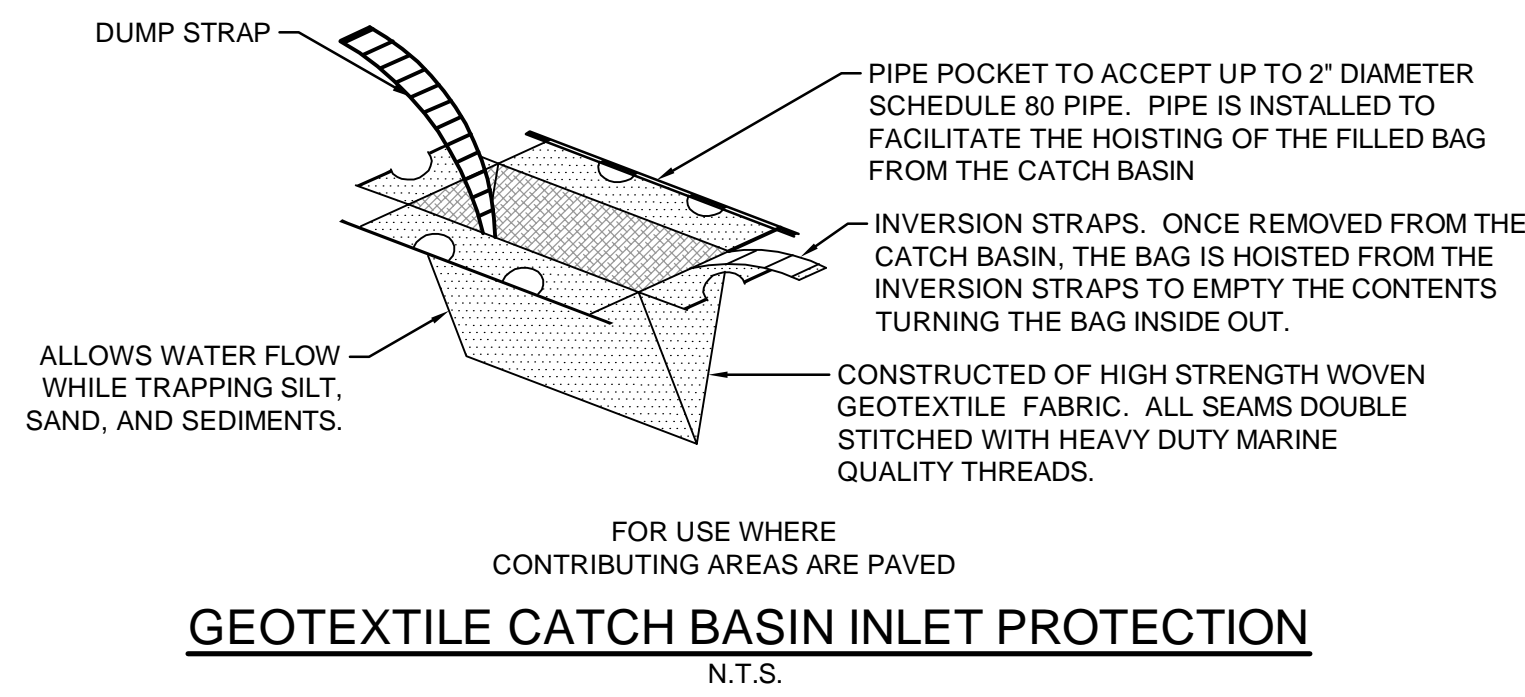
Scale: Date Issued February 3, 2021

C-8

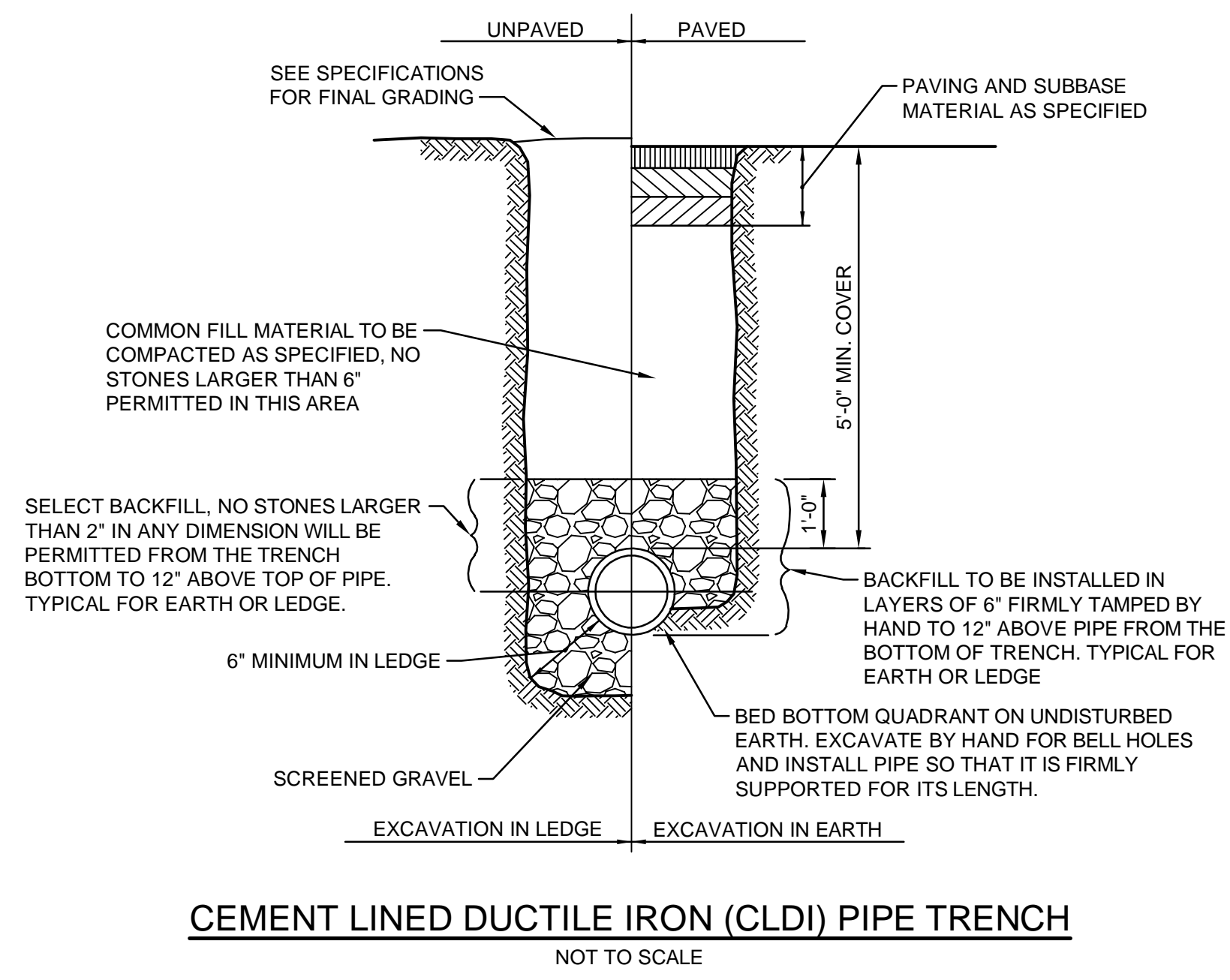
Project Number: 143-42892-20004



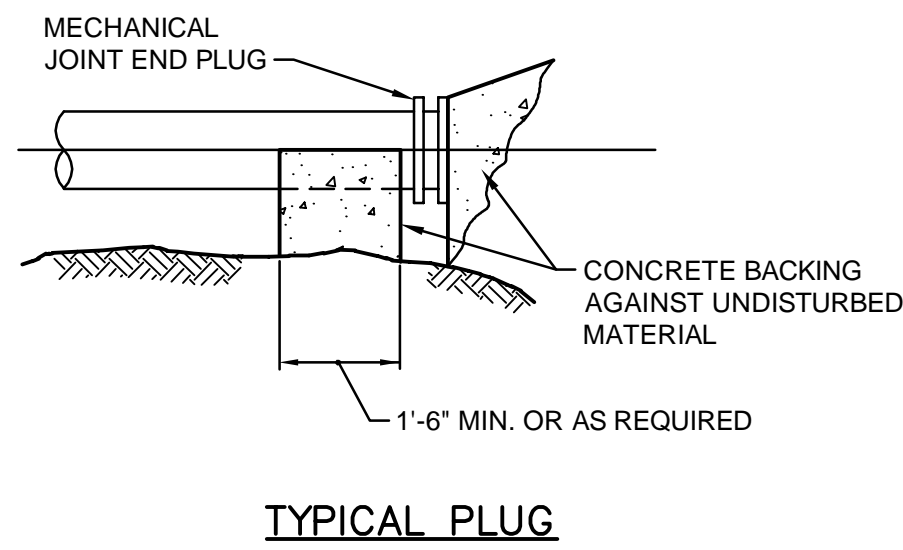
**CONNECTION/ATTACHMENT DETAIL
COMPOST FILTER SOCK**
N.T.S.



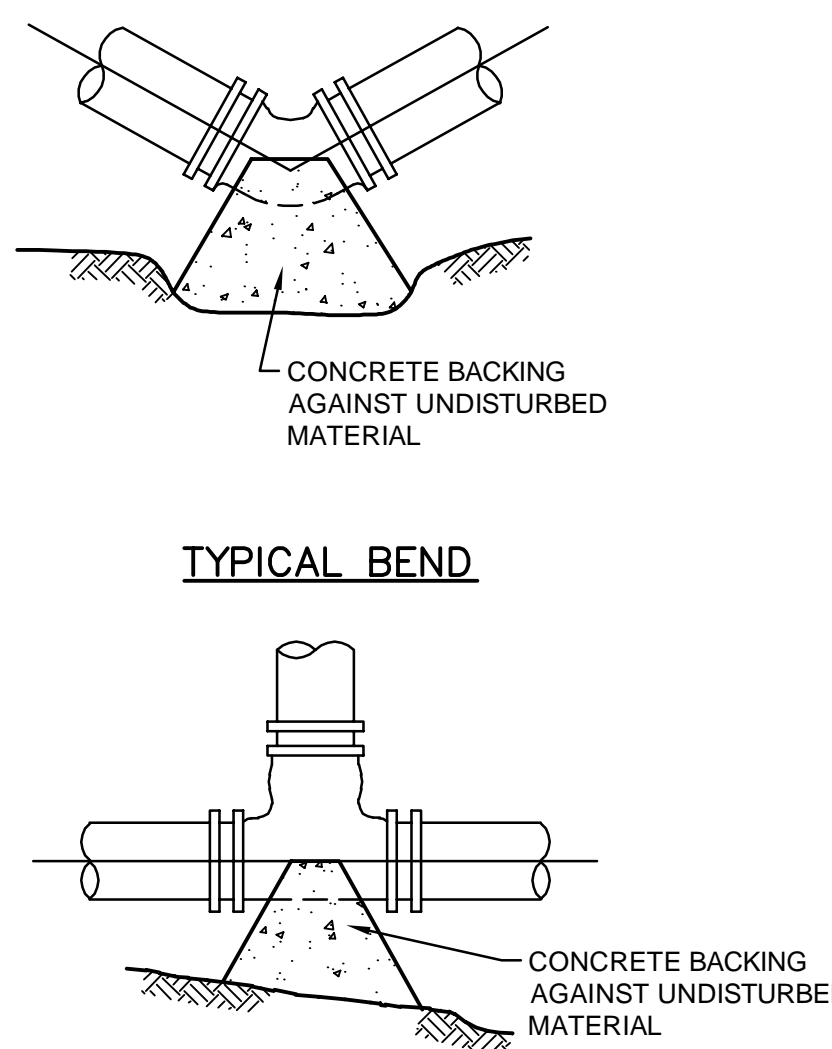
GEOTEXTILE CATCH BASIN INLET PROTECTION
N.T.S.



CEMENT LINED DUCTILE IRON (CLDI) PIPE TRENCH
NOT TO SCALE



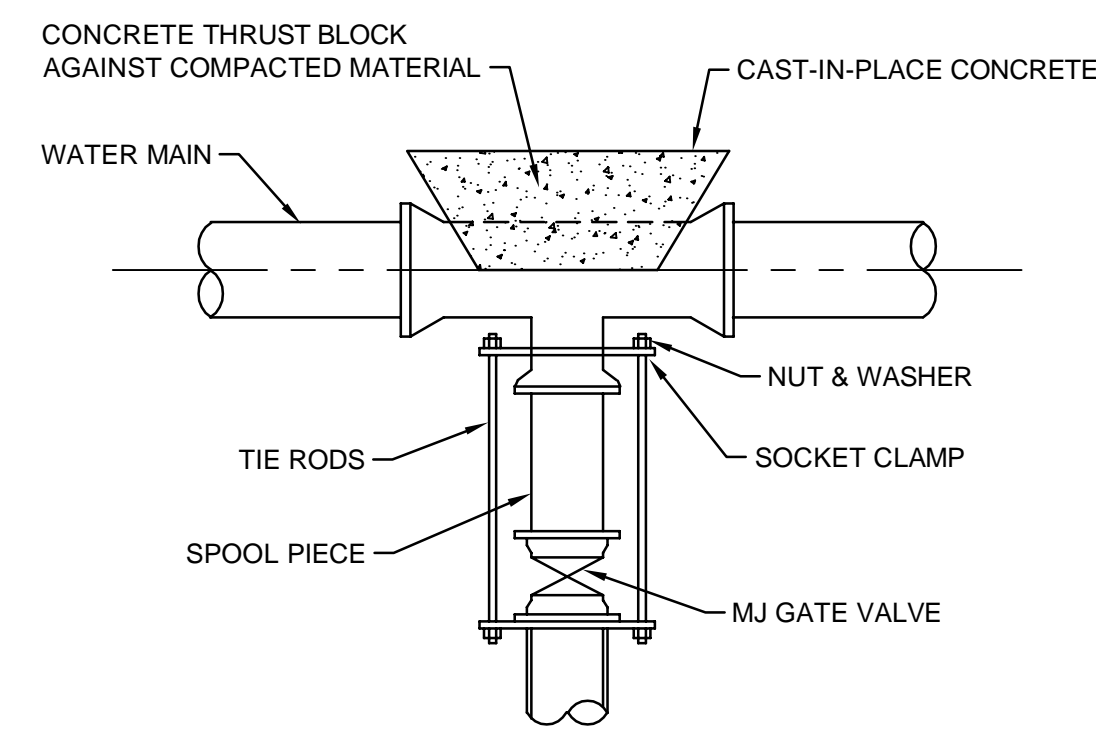
TYPICAL PLUG



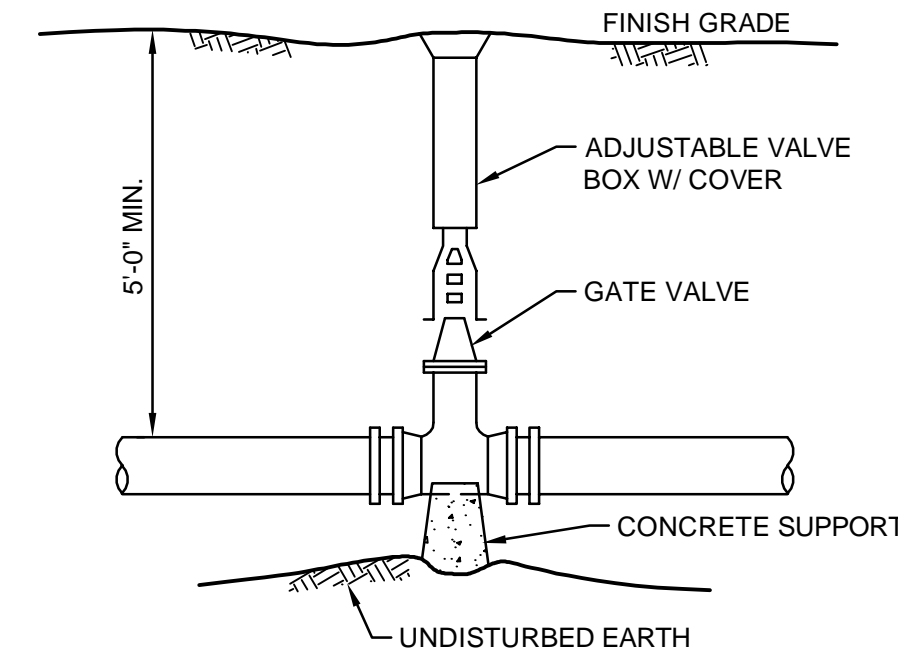
TYPICAL BEND

TABLE OF BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS			
SIZE OF MAIN (IN.)	45° BEND	TEES & PLUGS	22 1/2° BEND
8" & LESS	4	5	2
10"	6	8	3
12"	9	12	5
16"	12	16	7

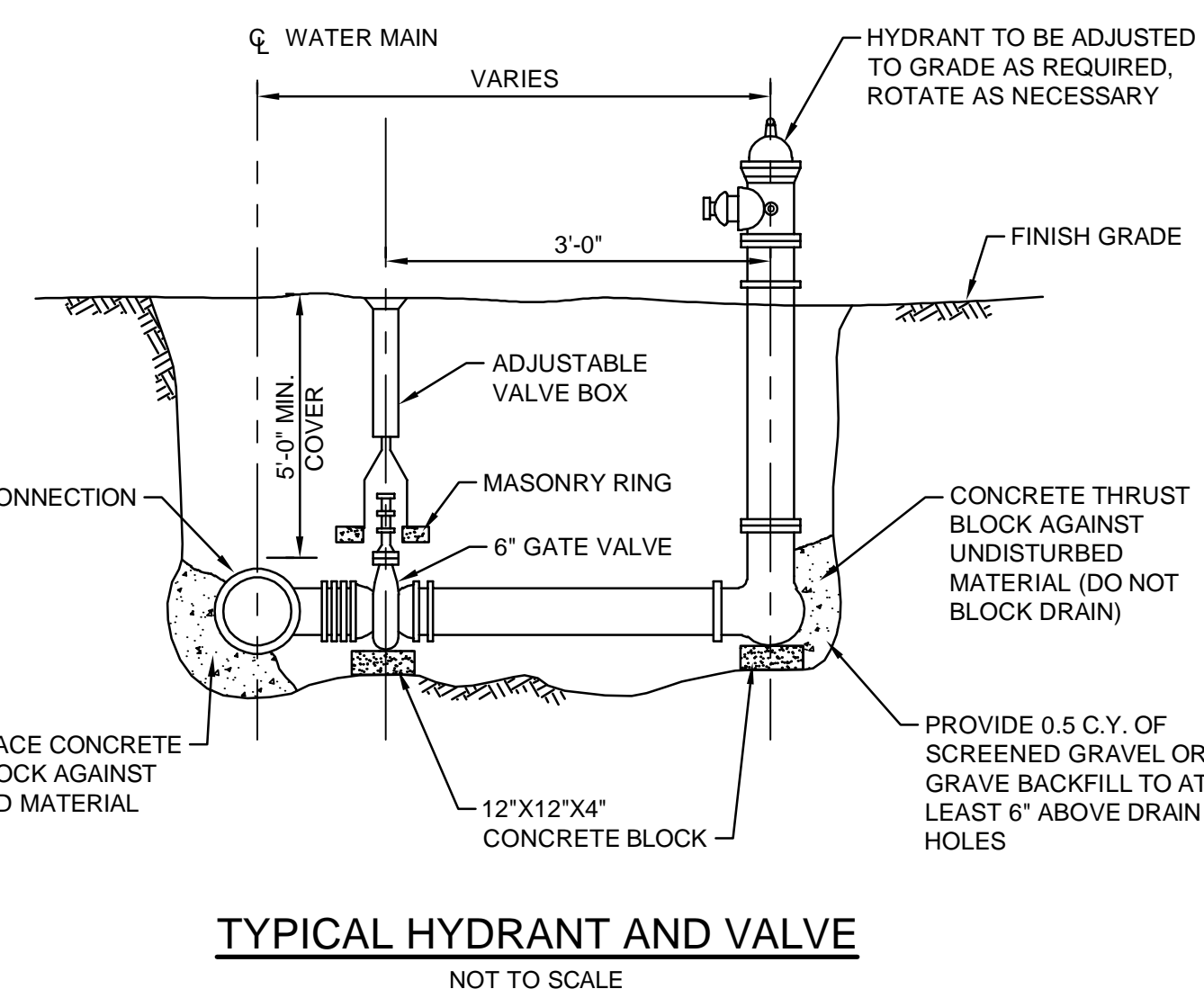
CONCRETE THRUST BLOCKS TYPICAL TEE
NOT TO SCALE



**TYPICAL VALVE CONNECTION
RESTRAINED JOINT TEE**
NOT TO SCALE



TYPICAL GATE VALVE
NOT TO SCALE



TYPICAL HYDRANT AND VALVE
NOT TO SCALE

GENERAL CONSTRUCTION NOTES

- THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED ON THE DRAWINGS AND EACH DRAWING HAS BEEN REVISED TO INDICATE 'ISSUED FOR CONSTRUCTION.'
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN RULES AND REGULATIONS UNLESS OTHERWISE NOTED.
- VERTICAL CONTROL IS BASED ON THE CITY OF QUINCY DATUM.
- ALL UTILITY PROVIDERS MUST BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- WHILE WORKING IN THE VICINITY OF AN EXISTING UTILITY, REFER TO THE FOLLOWING: ALL UNDERGROUND UTILITIES SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. SEE CHAPTER 370, ACTS OF 1962, MASSACHUSETTS GENERAL LAWS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE PUBLIC ENGINEERING DEPARTMENT SHALL BE CONTACTED AND THE PROPOSED UTILITY WORK SHALL BE COORDINATED. DIG SAFE NUMBER: 1-888-344-7233.
- THE CONTRACTOR SHALL GIVE TIMELY NOTICE TO PERTINENT CITY DEPARTMENTS BEFORE COMMENCING ANY WORK.
- ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
- ALL FINISHED SURFACES SHALL BE GRADED SMOOTHLY AND EVENLY.
- AT THE COMPLETION OF THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL DRAINAGE STRUCTURES (NEW AND/OR EXISTING) OF DEBRIS.
- DO NOT SCALE PLANS. DUE TO REPROGRAPHIC STRETCH, PRINTS MAY NOT SCALE ACCURATELY. NUMERIC DIMENSIONING IS CORRECT. CONTACT DESIGN ENGINEER TO CLARIFY.
- FILL CONTAINING HAZARDOUS MATERIALS SHALL NOT BE USED.
- LIMITS OF WORK SHALL BE MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- ALL CONSTRUCTION WHICH INCLUDES HAULING OF EARTH TO OR FROM THE SITE SHALL BE RESTRICTED BETWEEN THE HOURS OF 7:00 AM AND 6:00 PM ON WEEKDAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF LOCATION AND ELEVATION OF ALL WORK INSTALLED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE ELECTRONIC FILE FROM TETRA TECH FOR PROPER COORDINATION OF SURVEY LAYOUT.
- PRESERVATION OF ON SITE VEGETATION SHALL BE REVIEWED AND APPROVED BY OWNERS REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.

DRAINAGE

- PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM DESIGNATION C478. CONCRETE REQUIREMENTS SHALL BE 4000 PSI.
- STANDARD CATCH-BASIN SHALL CONSIST OF PRECAST REINFORCED RISER SECTIONS, CONE SECTION, AND A BASE SECTION CONFORMING TO THE TYPICAL CATCH-BASIN DETAIL. ALL CATCH-BASINS SHALL HAVE A MINIMUM 4-FOOT SLUMP.
- INSTALL STEPS IN ACCORDANCE WITH ASTM C-478, 12" O.C. IN ALL CATCH-BASINS AND DRAIN MANHOLES DEEPER THAN 4 FEET.
- MANHOLE AND PIPE JOINT/CONNECTION SHALL BE NON-SHRINK GROUT OR APPROVED EQUAL.
- PIPE MATERIAL SHALL BE SMOOTH WALL HIGH DENSITY POLYETHYLENE PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR APPROVED EQUAL.
- INSTALLATION AND MATERIALS FOR ALL PIPES WITHIN 10-FEET OF A BUILDING ARE SUBJECT TO CONFORMANCE WITH 248 CMR (MASSACHUSETTS STATE PLUMBING CODE).

WATER

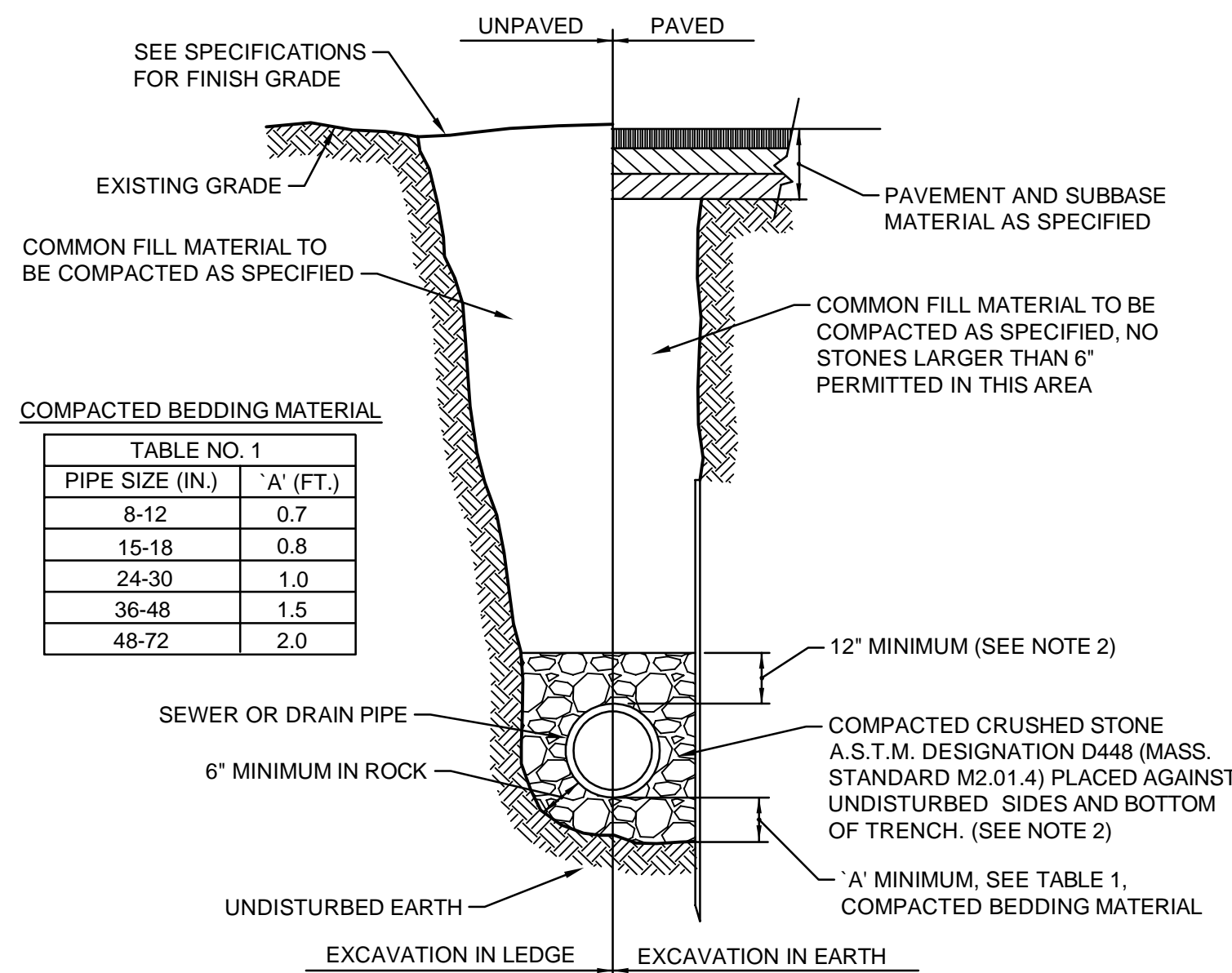
- DUCTILE IRON PIPE SHALL BE CEMENT LINED, COAL TAR ENAMEL, DOUBLE COATED, PUSH-ON TYPE JOINT, AND SHALL CONFORM TO A21.51 (AWWA C151) CLASS 52 FOR SIZES 4 INCH THROUGH 12 INCH.
- DUCTILE IRON FITTINGS SHALL CONFORM TO ANSII/AWWA C153/A21.53-84 (DUCTILE IRON COMPACT FITTINGS) PRESSURE RATING 350 PSI.
- GATE VALVES AND TAPPING SLEEVE VALVES SHALL BE RESILIENT SEATED VALVES CONFORMING TO THE REQUIREMENTS OF AWWA STANDARD C509. THE VALVE SHALL OPEN LEFT AND BE PRESSURE RATED FOR 250 PSI WORKING PRESSURE.
- VALVE BOXES SHALL BE THE 2 PIECE SLIP TYPE, 5 1/4 INCH I.D., FLANGE LOCATED AT THE TOP OF THE BOX, COVER MARKED "WATER" EQUAL TO TYPE CURRENTLY BEING USED BY THE CITY.
- WATER PRESSURE REQUIREMENTS AND THE ACTUAL WATER PRESSURE TO BE PROVIDED AT THE BUILDING SHALL BE DETERMINED BY OTHERS.
- THE CONTRACTOR WILL FURNISH AND INSTALL 1 1/4" CTS DOMESTIC WATER LINES AND WATER METERS AS SPECIFIED BY THE WATER DISTRICT.
- WATER LINES MUST BE A MINIMUM OF 18 INCHES ABOVE SEWER LINES. IN ADDITION, ONE FULL LENGTH OF WATER MAIN MUST BE CENTERED ON ONE FULL LENGTH OF SEWER LINE SO THAT ALL JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
- WATER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PHS PUBLIC HEALTH SERVICE MANUAL OF INDIVIDUAL WATER SYSTEMS, PHS PUBLICATION NO. 24, REVISED 1962, WASHINGTON, GPO (GOVERNMENT PRINTING OFFICE), 1963 AND ANY APPLICABLE CURRENT STATE AND FEDERAL REGULATIONS.
- CHLORINATION SHALL BE IN ACCORDANCE WITH THE AWWA STANDARD C601 DISINFECTING WATER MAINS.
- ALL PIPELINES SHALL BE GIVEN COMBINED PRESSURE AND LEAKAGE TESTS AT THE DIRECTION OF THE TOWN WATER DEPARTMENT. HYDROSTATIC AND LEAKAGE TEST SHALL BE MADE IN ACCORDANCE WITH AWWA STANDARD C900 SECTION 4. HYDROSTATIC TESTS SHALL BE MADE AT 1.5 TIMES THE WORKING PRESSURE, BUT NOT LESS THAN 150 PSI FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ACCORDANCE WITH THE ABOVE AWWA STANDARD.
- INSTALLATION OF WATER UTILITIES TO BE IN CONFORMANCE WITH THE WATER DISTRICT STANDARDS.
- WHENEVER POSSIBLE WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER.
- SHOULD LOCAL CONDITIONS PREVENT AN 18" SEPARATION, BOTH THE WATER MAIN AND THE SEWER SHALL BE ENCASED IN CONCRETE ON EITHER SIDE OF THE CROSSING (SEE DETAIL).

ELECTRIC

- SPECIFICATIONS: ALL WORK SHALL BE IN ACCORDANCE WITH THE ELECTRIC COMPANY'S STANDARDS, THE NATIONAL ELECTRICAL SAFETY CODE, AND STATE AND LOCAL CODE REQUIREMENTS.
- APPROVAL: CONTRACTOR SHALL OBTAIN APPROVAL OF PLAN BY THE WIRE INSPECTOR AND THE ELECTRIC COMPANY. PLANS SHALL SHOW THE LOCATION OF CONDUITS AND THEIR TYPE, SIZE, AND NUMBER.
- PROVIDE ALL EXCAVATION AND BACK FILLING WORK REQUIRED FOR THE INSTALLATION OF ALL ELECTRIC FACILITIES. THIS SHALL INCLUDE EXCAVATING FOR CONDUITS, MANHOLES, AND/OR JUNCTION ENCLOSURES, AND PADS.
- INSTALL ALL GROUNDING MATERIALS (IE. WIRE, GROUND, RODS, CONNECTORS, ETC.) AS SPECIFIED BY ELECTRIC COMPANY.

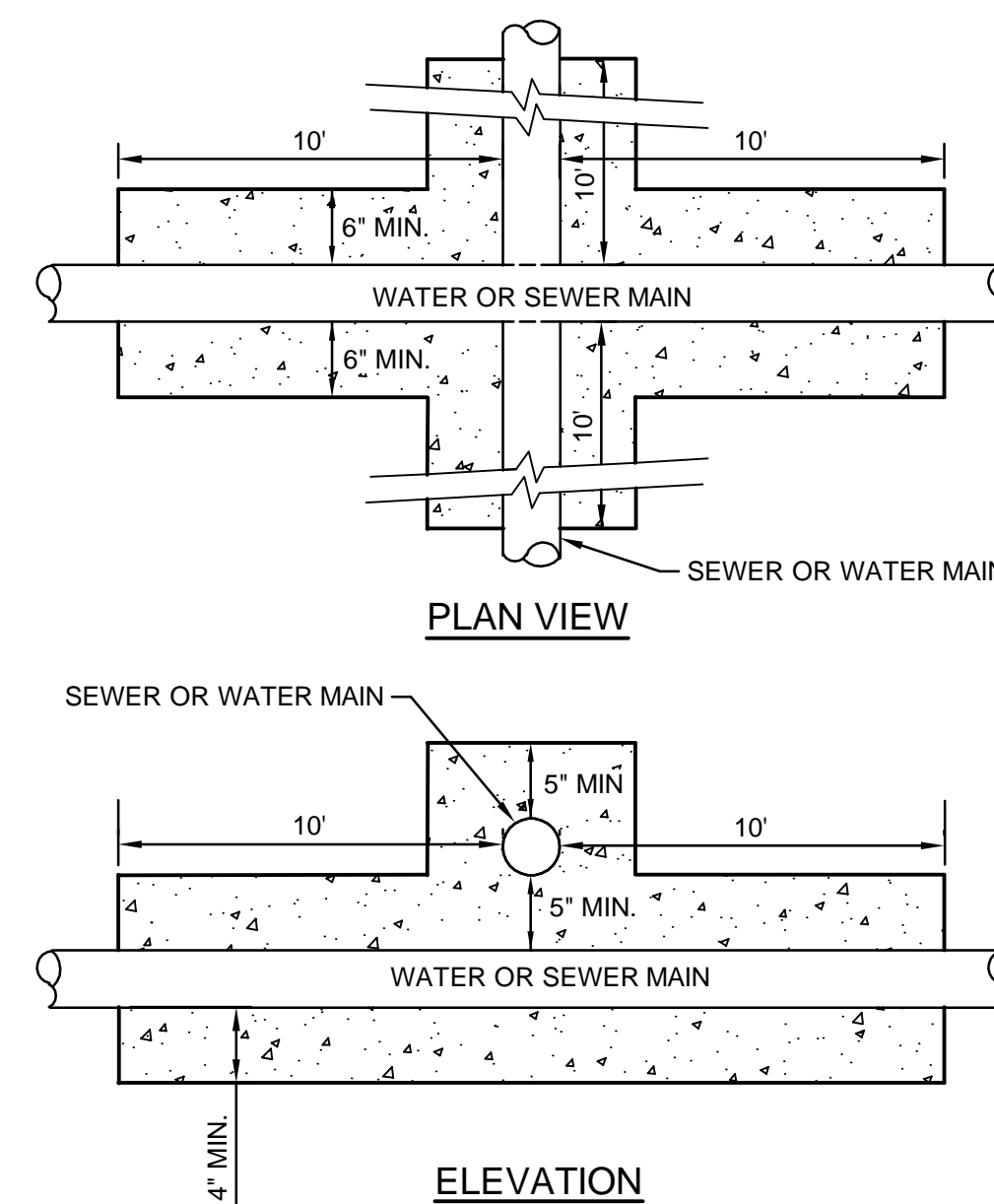
PRIVATE UTILITY NOTES

- THIS PLAN HAS BEEN PREPARED AS A SCHEMATIC REPRESENTATION OF THE PROPOSED ELECTRIC, TELEPHONE, FIRE ALARM, AND NATURAL GAS SYSTEMS. IT IS NOT THE INTENTION OF THIS DRAWING THAT EVERY DETAIL, DEVICE, ITEM OR PIECE OF EQUIPMENT BE SHOWN. FINAL DESIGN AND APPROVAL MUST BE OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES FOR LOCATION OF TRANSFORMERS, CONDUITS, AND CONNECTIONS TO BUILDINGS.
- ELECTRIC, TELEPHONE, AND GAS UTILITY SIZES, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY AND REVIEWED AND APPROVED BY THE APPROPRIATE UTILITY COMPANIES.



- NOTES:**
- SHEETING, WHEN REQUIRED, TO BE CUT OFF AT LEAST 5 FEET BELOW STREET AND A MINIMUM OF 1 FOOT ABOVE TOP OF PIPE. WOOD SHEETING DRIVEN BELOW MID-DIAMETER OF THE PIPE SHALL BE LEFT IN PLACE. STEEL SHEETING DRIVEN BELOW MID-DIAMETER MAY BE WITHDRAWN IF APPROVED IN WRITING BY THE ENGINEER. FOR PVC PIPE ALL SHEETING DRIVEN BELOW MID-DIAMETER SHALL BE LEFT IN PLACE.
 - WHEN APPROVED BY THE ENGINEER FOR PIPES OTHER THAN PVC SELECTED GRAVEL FILL MATERIAL MAY BE USED FROM MID-DIAMETER OF PIPE TO 12" ABOVE TOP OF PIPE. NO STONES LARGER THAN 2 INCHES IN ANY DIMENSION WILL BE PERMITTED IN THIS AREA - MASSACHUSETTS STATE MATERIAL STANDARD M1.03.0 TYPE C.
 - TRENCHES LOCATED ON THE ROAD SHOULDER SHALL BE TREATED THE SAME EXCEPT FOR PAVING.
 - PROVIDE AT LEAST ONE IMPERVIOUS DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE WHERE DIRECTED, OR EVERY 300 FEET, WHICHEVER IS LESS.
 - BEDDING MATERIAL FOR PVC PIPE SHALL MEET THE REQUIREMENTS OF ASTM D2321 CLASS I OR CLASS II EMBEDMENT MATERIALS.

SEWER TRENCH (PVC)
NOT TO SCALE



CONCRETE ENCASED SEWER AND WATER MAIN CROSSING
NOT TO SCALE

- NOTES:**
- WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER.
 - THE WATER MAIN SHALL BE LAID ABOVE THE SEWER.
 - SHOULD LOCAL CONDITIONS PREVENT AN 18" SEPARATION, BOTH THE WATER MAIN AND THE SEWER SHALL BE ENCASED IN CONCRETE ON EITHER SIDE OF THE CROSSING (SEE DETAIL).
 - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE 18" MINIMUM VERTICAL CLEARANCE.

DEVELOPER:
FOXROCK 200 LIBBEY, LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169



Civil Engineer

Tetra Tech Inc.
20 Cabot Boulevard, Suite 305
Mansfield, MA 02048
Tel 508-756-2200
www.tetrattech.com



Landscape Architect

Terraink Landscape Architecture
7 Central Street, Suite 150
Arlington, MA 02476
Tel 781 316 1595
www.terraink.com



Architect

Isgenuity LLC
500 Harrison Avenue, Suite 5F
Boston, MA 02118
Tel 617 419 4660
www.isgeniuty.com



MEP/FP Engineer

R.W. Sullivan Engineering
The Schrafft Center
529 Main Street, Suite 203
Boston, MA 02129
Tel 617 523 8227
Fax 617 523 8016

Structural Engineer

McNamara + Salva
101 Federal Street, Suite 1100
Boston, MA 02110
Tel 617 737 0340
www.mcsal.com

Issuance Schedule

Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS



**PROGRAMMING
NOT FOR CONSTRUCTION**

DETAIL SHEET

FoxRock 200 Libbey, LLC

**Medical Office Building
200 Libbey Industrial Parkway
Weymouth, MA**

Scale: Date Issued February 3, 2021



Project Number: 143-42892-2004

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUIVALENT.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS. J
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPED FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS. J
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2927, STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS. J
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.56 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2927 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET, THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

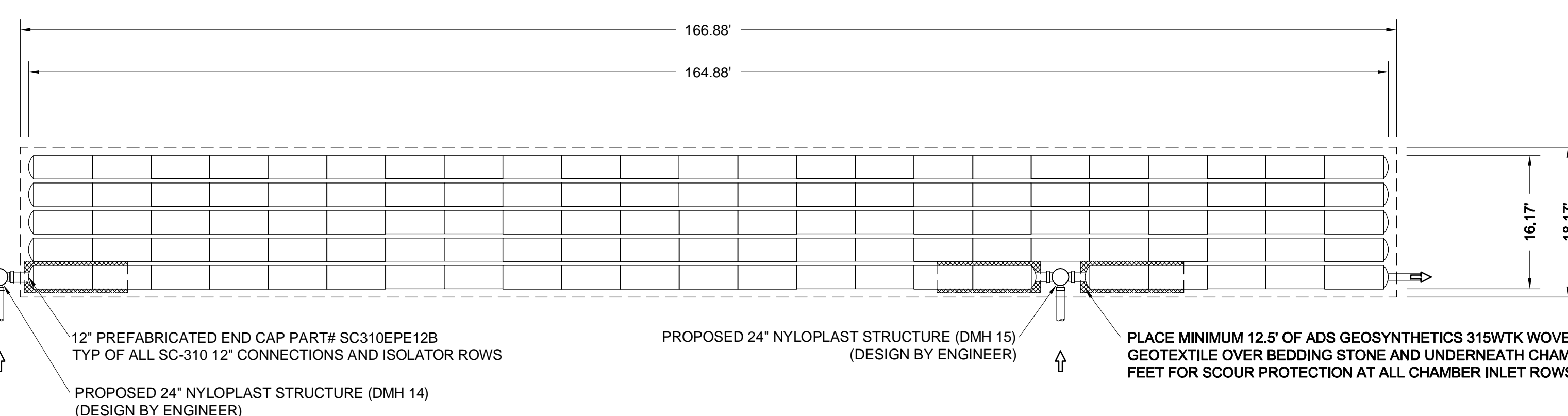
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. J
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE". J
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. J
- STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONES/HOTEL LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR. J
 - THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS. J
 - JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE. J
 - MAINTAIN MINIMUM 4" (100 mm) SPACING BETWEEN THE CHAMBER ROWS. J
 - EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE CLEAN, CRUSHED, ANGULAR STONE 3/4" (20-50 mm) J
 - THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER. J
 - ADS RECOMMENDS THE USE OF "LEXISTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.
- NOTES FOR CONSTRUCTION EQUIPMENT. J**
 - STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". J
 - THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TREAD LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". J
 - FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
 - USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-888-892-2684 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

LAYOUT

(1) STORMTECH SC-310 CHAMBERS
 (2) STORMTECH SC-310 END CAPS
 INSTALLED WITH 6" COVER STONE, 4" BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 300 CF
 AREA OF SYSTEM: 1032 SF
 PERIMETER OF SYSTEM: 370 FT

PROPOSED ELEVATIONS

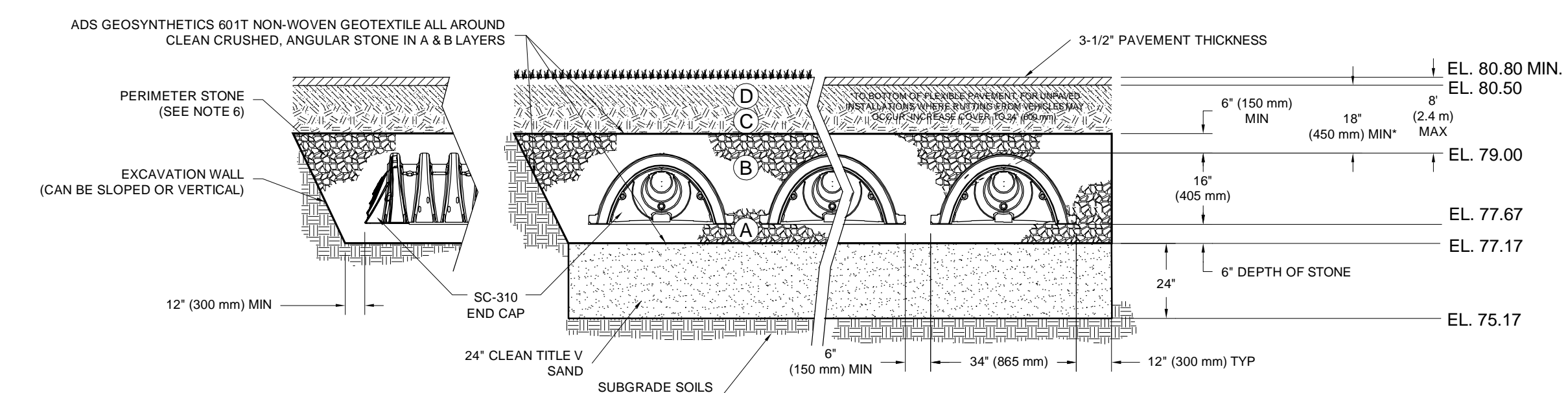
MAXIMUM ACCEPTABLE GRADE (TOP OF PAVEMENT/UNPAVED):	87.00
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	86.80
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	86.50
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	86.50
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	86.50
TOP OF STONE:	79.50
TOP OF CHAMBER:	79.00
8" TOP CONNECTION INVERT:	77.96
12" BOTTOM CONNECTION INVERT:	77.75
BOTTOM OF CHAMBER:	77.67
BOTTOM OF STONE:	77.17



ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

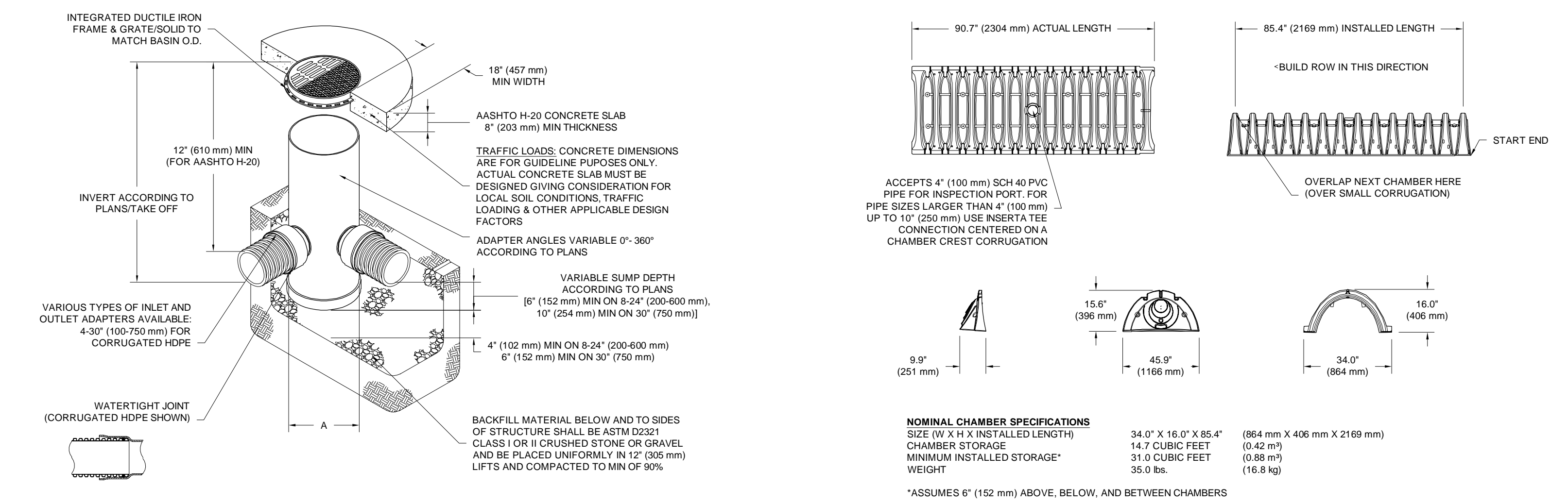
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS, CHECK PLANS FOR PAVEMENT SUBBASE REQUIREMENTS.	NA
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (IF LAYER 'B' IS 18" (450 mm) ABOVE THE TOP OF THE CHAMBER, NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LAYER 'C' OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". J
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2927, STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS. J
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS. J
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT. J
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. J
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A308 GRADE 70-50-05.
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A308 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ABS & HANCOCK DUAL WALL & 80R-30 PVC).
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-USA.COM
- TO ORDER CALL: 1-800-921-4710

A	PART #	GRATE/SOLID COVER OPTIONS
8" (200 mm)	280AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
10" (250 mm)	281AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20 STANDARD AASHTO H-20 SOLID AASHTO H-20

NYLOPLAST DRAIN BASIN
NTS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A (244 mm)	B (147 mm)	C
SC310EPE08T / SC310EPE07PC	6"	9.6"	5.8"	---
SC310EPE08B / SC310EPE06PC	---	---	---	0.5" (13 mm)
SC310EPE08T / SC310EPE08PC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	0.6" (16 mm)
SC310EPE08B / SC310EPE08PC	---	---	---	---
SC310EPE10T / SC310EPE10PC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10PC	---	---	---	0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2684.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

SC-310 TECHNICAL SPECIFICATION
NTS

DEVELOPER:
 FOXROCK 200 LIBBEY, LLC
 1200 Hancock Street, Suite 301
 Quincy, MA 02169



Civil Engineer
 Tetra Tech Inc
 20 Cabot Boulevard, Suite 305
 Mansfield, MA 02048
 Tel 508-736-2200
 www.tetratech.com



Landscape Architect
 Terraink Landscape Architecture
 7 Central Street, Suite 150
 Arlington, MA 02476
 Tel 781 316 1595
 www.terraink.com



Architect
 Igenuity LLC
 500 Harrison Avenue, Suite 5F
 Boston, MA 02118
 Tel 617 419 4660
 www.igenuity.com

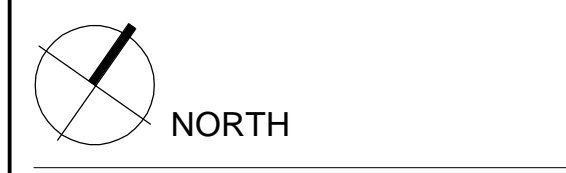


MEP/FP Engineer
 R.W. Sullivan Engineering
 The Schrafft Center
 529 Main Street, Suite 203
 Boston, MA 02129
 Tel 617 523 8227
 Fax 617 523 8016

Structural Engineer
 McNamara + Salva
 101 Federal Street, Suite 1100
 Boston, MA 02110
 Tel 617 737 0340
 www.mcsal.com

Issuance Schedule

Number	Date	Description
1	2/11/21	SUBMIT TO BZA
2	3/8/21	REVISED PER CONSERVATION / DPW COMMENTS



PROGRAMMING
 NOT FOR CONSTRUCTION

RECHARGE SYSTEM
 DETAIL SHEET

FoxRock 200 Libbey, LLC

Medical Office Building
 200 Libbey Industrial Parkway
 Weymouth, MA

Scale: Date Issued February 3, 2021

C-10

Project Number: 143-42892-2004