

REV. / ISSUE	DATE	DESCRIPTION
1	5/19/2022	REV 1: UPDATED PER SCD COMMENTS
2	6/7/2022	REV 2: REV FOR DEP APPLICATION
3	7/22/2022	REV 3: REV PER TWP. COMMENTS
4	9/27/2022	REV. PER SCD COMMENTS
5	10/10/2022	REV. PER SCD COMMENTS
6	02/08/2023	REV. PER TWP COMMENTS

CONSULTANT

ORIENTATION / KEY PLAN

CLIENT

EL-ION FRANKLINE PARTNERS, LLC
 3323 NE 163RD STREET, SUITE 600
 MIAMI, FLORIDA 33160

PS&S PAULUS, SOKOLOWSKI AND SARTOR, LLC.

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 P.O. BOX 4039
 WARREN, NJ 07059
 PHONE: (732) 560-9700

CERTIFICATE OF AUTHORIZATION NO. 24GA298032700

CRAIG HERMANN, P.E.
 PROFESSIONAL ENGINEER
 N.J. LIC. NO. 45107

02/08/2023
 DATE

PROJECT

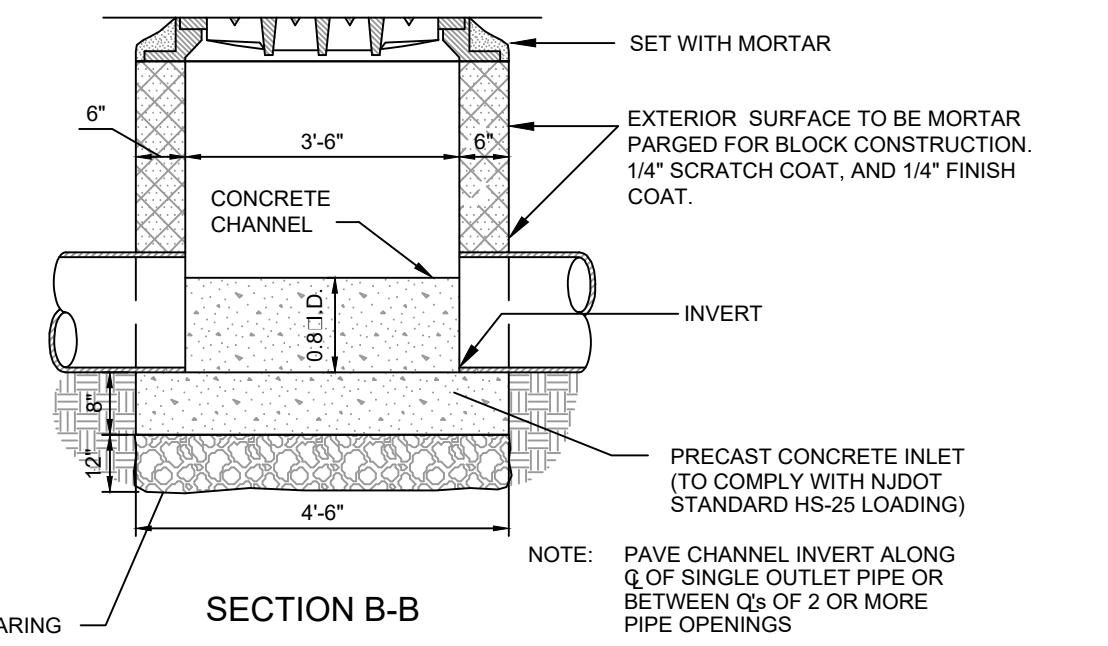
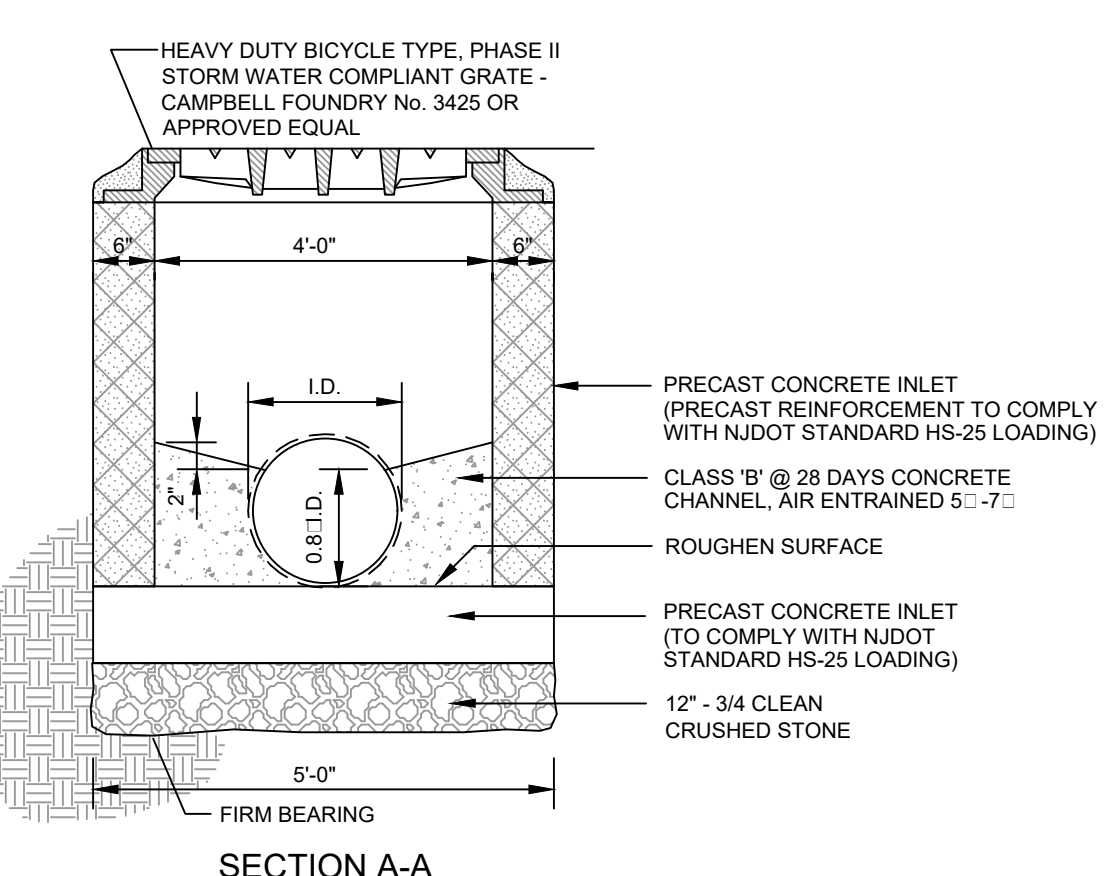
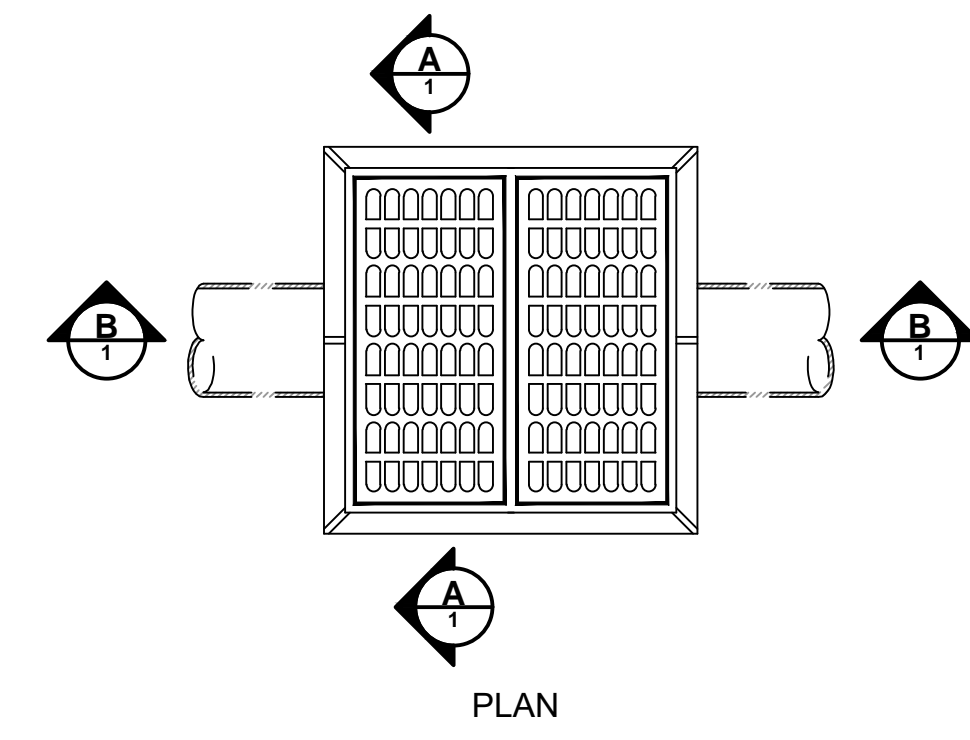
PROPOSED WAREHOUSE COMPLEX BUILDINGS A & B

TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE

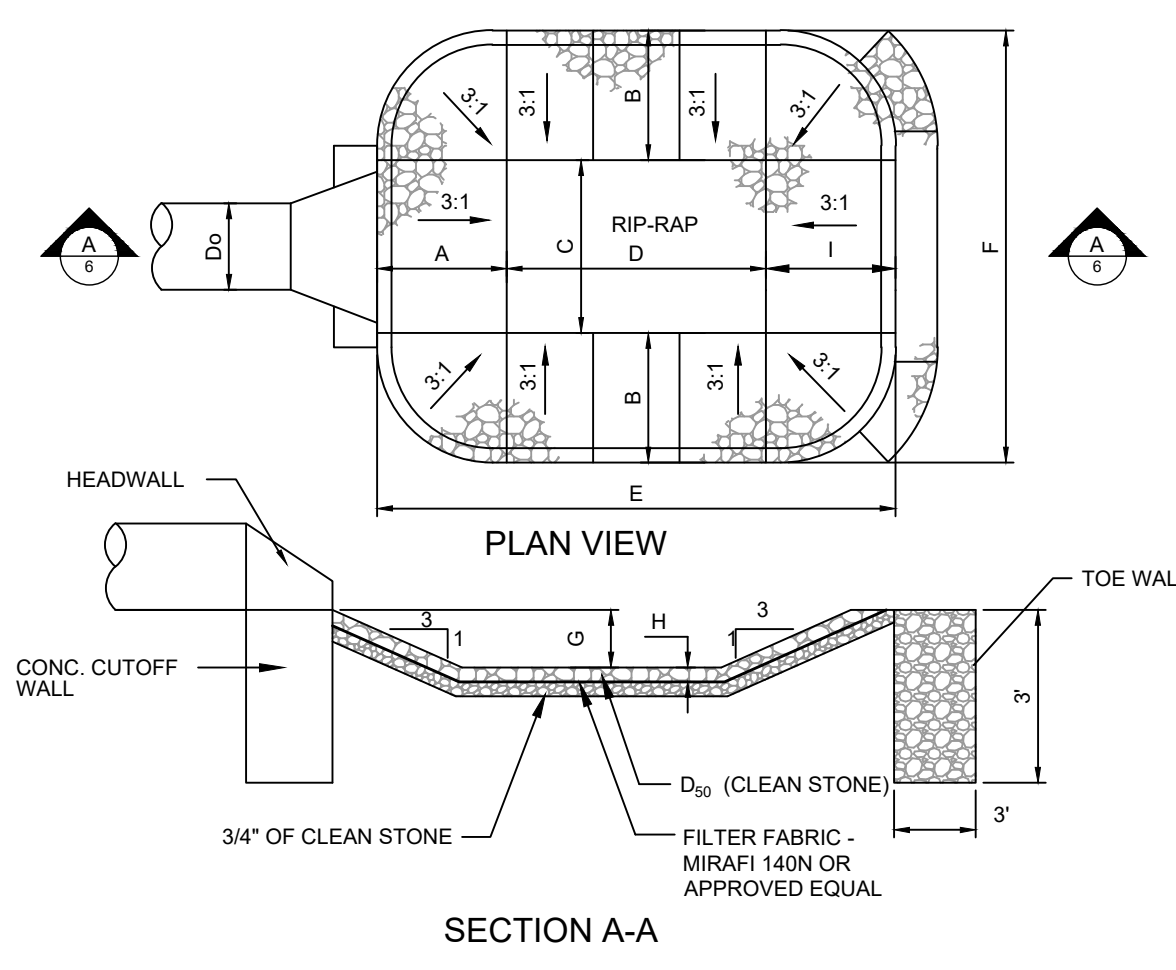
STORMWATER DETAILS

PROJECT NO.: 04596-0014 DRAWN BY: CY/JMS
 SCALE: AS SHOWN CHECKED BY: CH
 DATE: 4/8/2022 SHEET 21 OF 29
 SHEET NO. C-21



- NOTES:
1. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5% TO 7% AIR ENTRAINMENT.
 2. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 3. STRUCTURE SHALL BE INSTALLED ON 12" THICK PAD OF 3/4" CLEAN STONE INSTALLED ON FIRM BEARING.
 4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING.
 5. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S' OF 2 OR MORE PIPE OPENINGS.

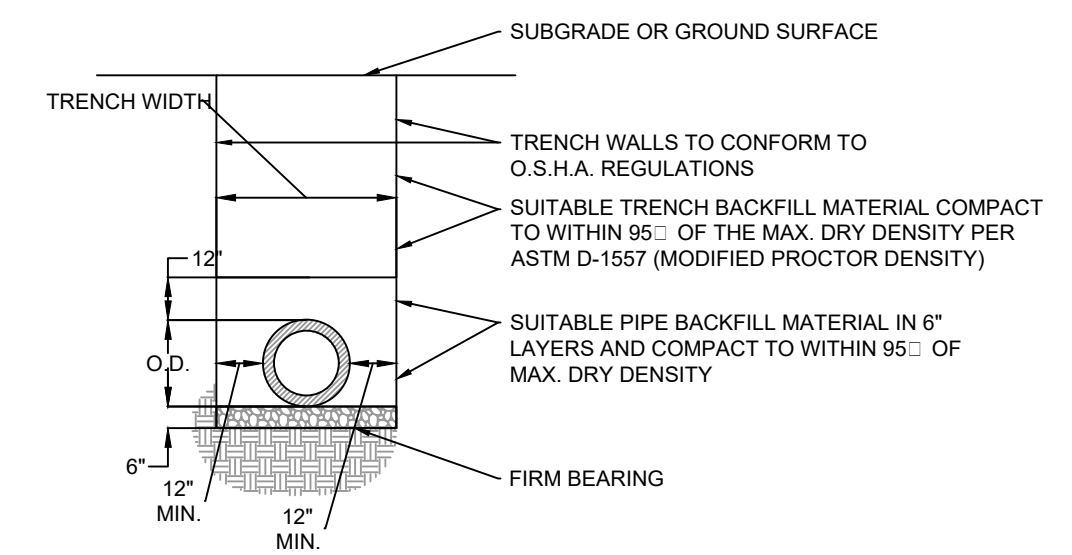
1 TYPE "E" INLET
SCALE: NTS



SCOUR HOLE DESIGN TABLE

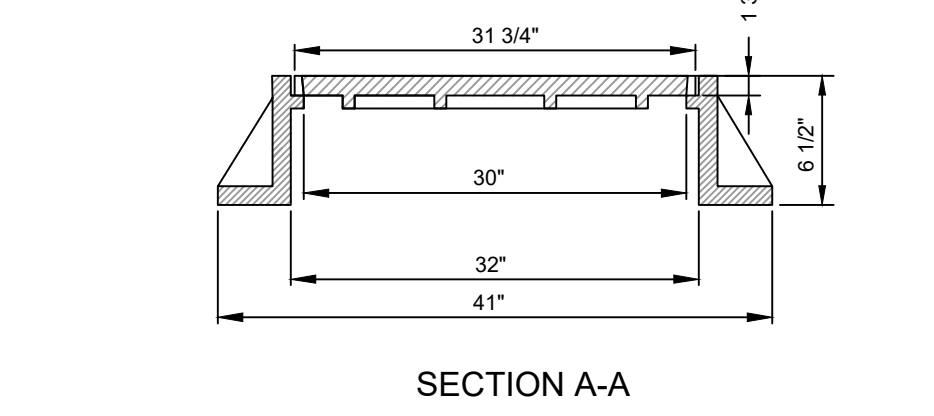
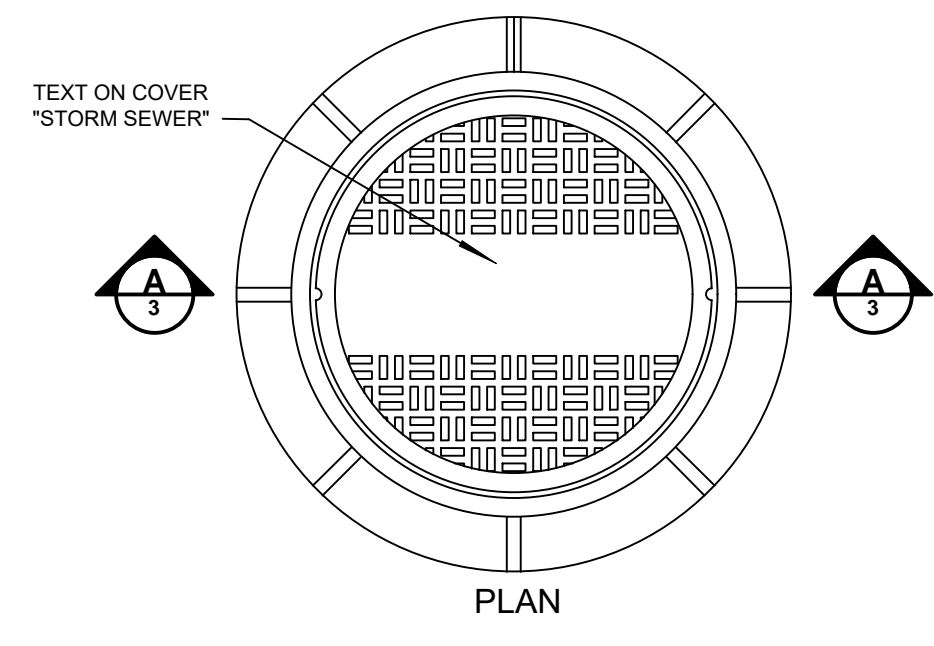
Headwall / LABEL	Structure Type	Flow	OUTLET PROTECTION									
			A	B	C	D	E	F	G			
HW-125/SH-125	48	45	12.00	6.00	8.00	12.00	20.00	2.00	24.00	12.00	12.00	
HW-152/SH-152	15	15.00	3.75	1.88	2.50	3.75	7.50	6.25	6.63	36.00	3.75	18.00
Curbcut/SH-200	24	1.66	6.00	3.00	4.00	6.00	12.00	10.00	1.00	12.00	6.00	6.00

6 PREFORMED SCOUR HOLE
SCALE: NTS



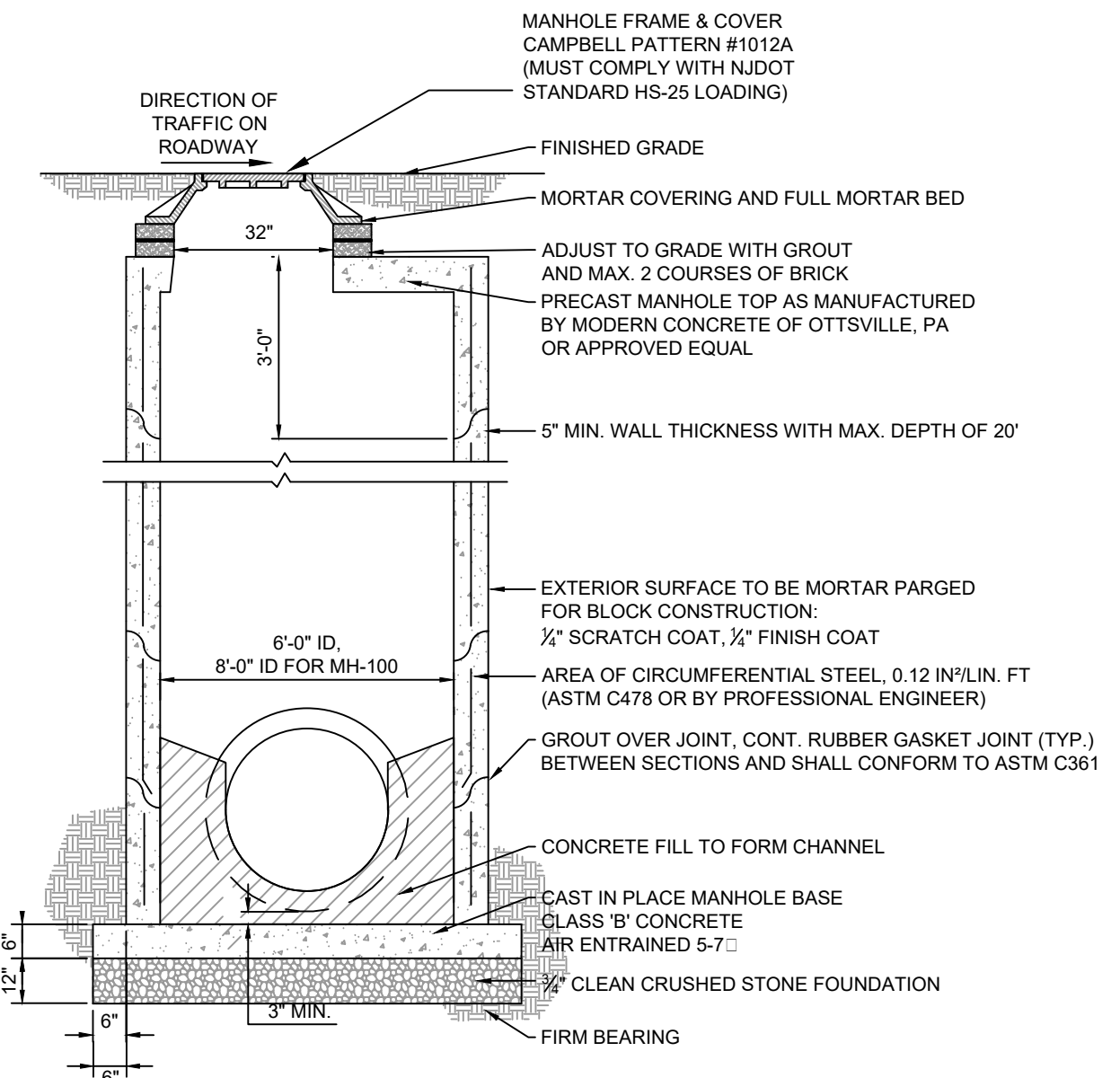
- NOTES:
1. TRENCH WIDTH SHALL BE A MINIMUM OF 12" EACH SIDE PLUS THE OUTSIDE DIAMETER OF THE PIPE. TRENCH WIDTH SHALL NOT EXCEED THAT REQUIRED FOR PROPER INSTALLATION BACKFILL AND COMPACTION OPERATIONS.
 2. ALL SUITABLE BACKFILL AND STONE BEDDING SHALL BE AS PER SPECIFICATIONS, PIPE MANUFACTURER REQUIREMENTS, AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
 3. WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE MECHANICALLY CUT, PATCHING SHALL CONSIST OF TACKING EDGES OF EXISTING PAVEMENT, AND INSTALLING NEW PAVEMENT. COMPACTION IN ACCORDANCE WITH NJDOT SPECIFICATIONS.
 4. COMPACTION TO CONFORM TO ASTM D-1557.

2 HDPE PIPE TRENCH
SCALE: NTS



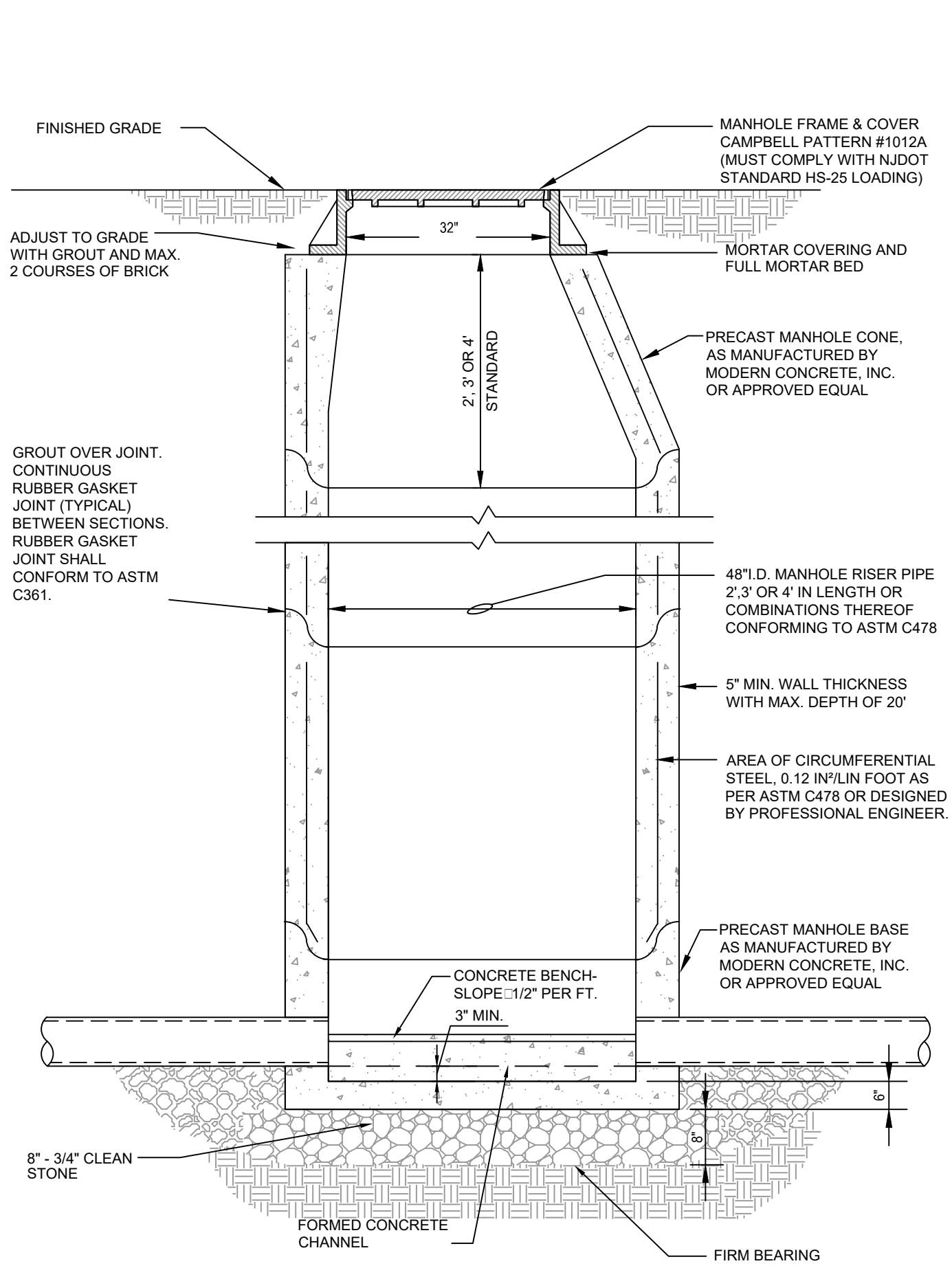
NOTE:
MANHOLE FRAME & COVER CAMPBELL FOUNDRY PATTERN #1012A OR APPROVED EQUAL (MUST COMPLY WITH NJDOT HS-25 LOADING).

3 MANHOLE FRAME AND COVER
SCALE: NTS



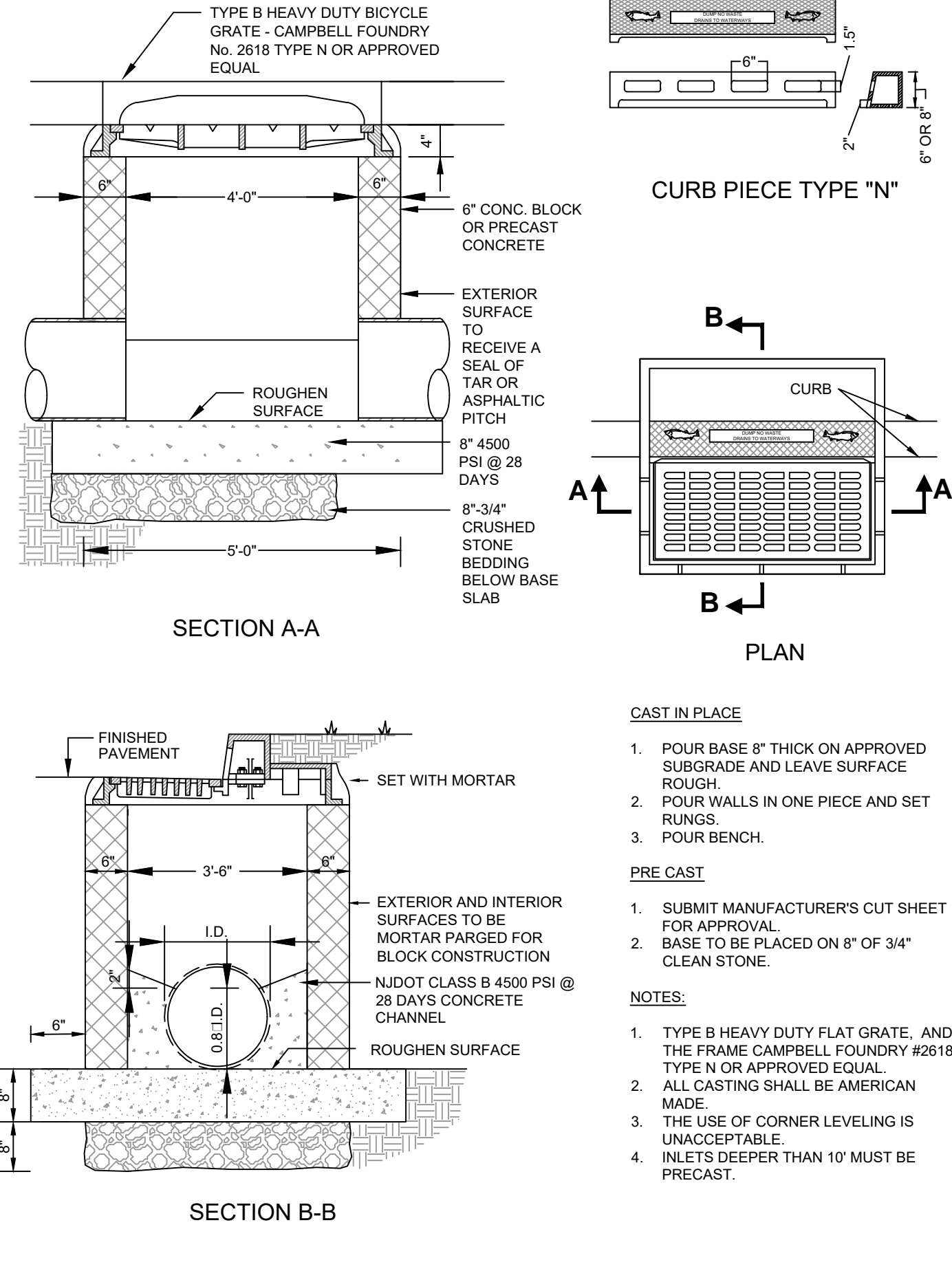
- NOTES:
1. PRECAST UNITS, APPLY 2 COATS (18 MIL) OF CARBOLINE 50 TO EXTERNAL WALLS OR APPROVED EQUAL.
 2. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5% TO 7% AIR ENTRAINMENT.
 3. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 4. STRUCTURE SHALL BE INSTALLED ON 12" THICK PAD OF 3/4" CLEAN STONE INSTALLED ON FIRM BEARING.
 5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING.
 6. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S' OF 2 OR MORE PIPE OPENINGS.

7 OVERSIZED STORM SEWER MANHOLE
SCALE: NTS



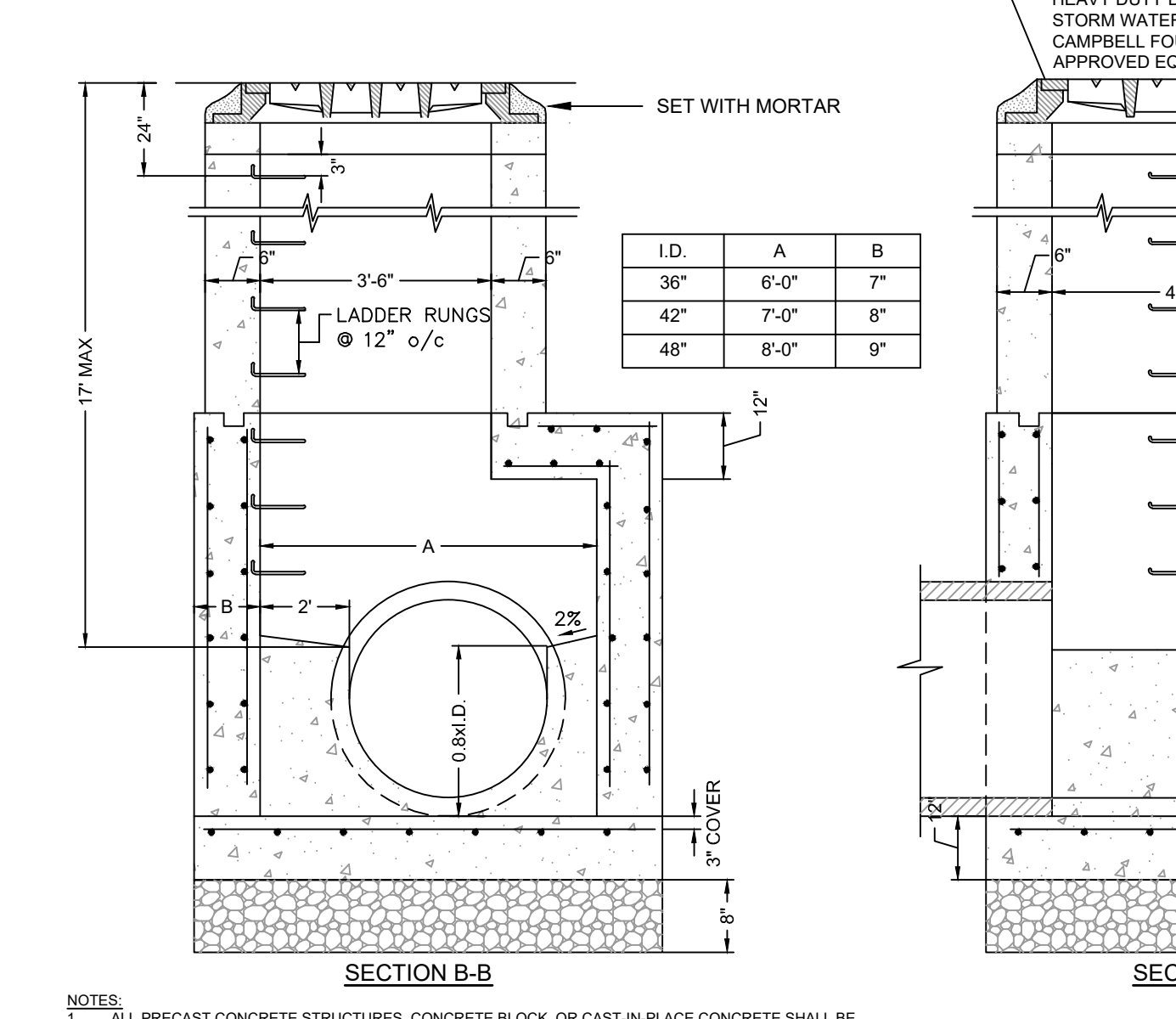
- NOTES:
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 6. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S' OF 2 OR MORE PIPE OPENINGS.

4 STANDARD STORM SEWER MANHOLE
SCALE: NTS



- NOTES:
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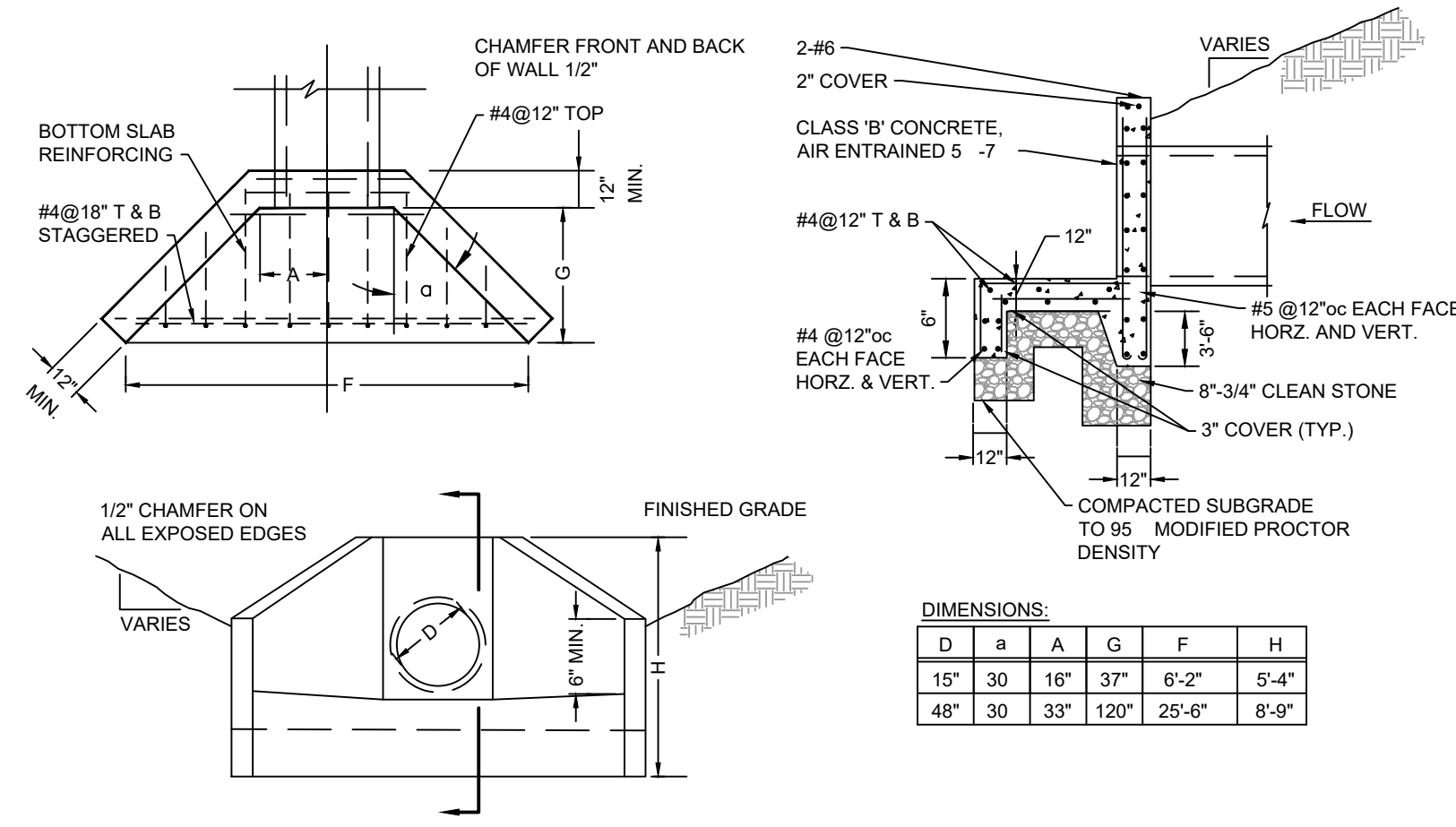
5 TYPE "B" INLET
SCALE: NTS



- NOTES:
1. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR CAST-IN-PLACE CONCRETE SHALL BE NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5% TO 7% AIR ENTRAINMENT.
 2. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 3. LADDER RUNGS SHALL BE PROVIDED IN ALL STRUCTURES EVERY 12" STARTING A MAXIMUM OF 12" FROM THE TOP OF THE CONCRETE INFILL TO WITHIN NO MORE THAN 24" FROM THE GRATE.
 4. INSTALL LADDER RUNGS ON SIDE FACING TRAFFIC.
 5. LADDER RUNGS TO COMPLY WITH ASTM C478 OR SPECIFIED DETAIL.
 6. STRUCTURE SHALL BE INSTALLED ON 12" THICK PAD OF 3/4" CLEAN STONE INSTALLED ON FIRM BEARING.
 7. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING AND IN ACCORDANCE WITH ASTM C913 AND ACI 318.
 8. ALL REINFORCING STEEL TO BE GRADE 60.
 9. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S' OF 2 OR MORE PIPE OPENINGS.
 10. 2" COVER ON ALL REINFORCING STEEL EXCEPT AS SHOWN OTHERWISE.
 11. KEYED CONSTRUCTION JOINTS REQUIRED BETWEEN ANY SUCCESSIVE POURS.

8 TYPE "E" INLET DETAIL FOR 36" TO 48" DIA. SEWERS
SCALE: NTS

FILE NAME: P:\04596\01\EDWDG\Civil\Stormwater\Details - LAST EDIT: 02/07/2023 - 03:29:20 PM LOGIN: paulus@psand.com

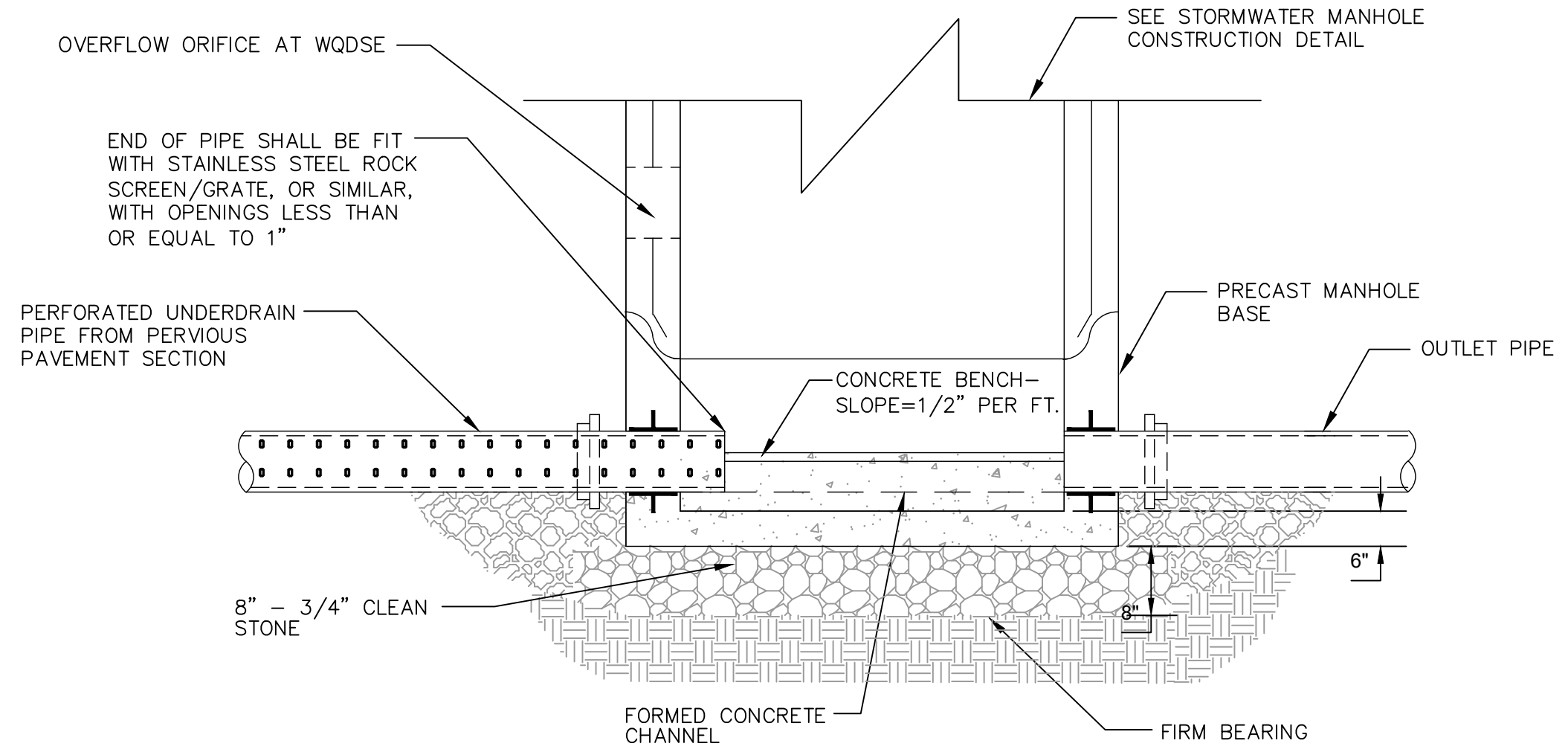


DIMENSIONS:

D	a	A	G	F	H
15"	30"	16"	37"	6'-2"	5'-4"
48"	30"	33"	120"	25'-6"	8'-9"

- NOTES:**
- ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B' CONCRETE WITH 5% TO 7% AIR ENTRAINMENT.
 - UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE.

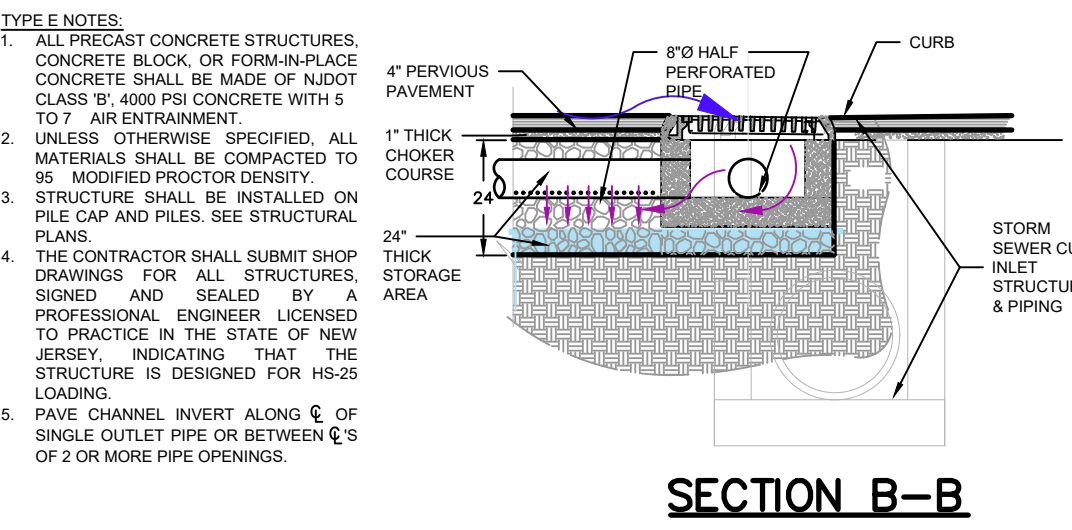
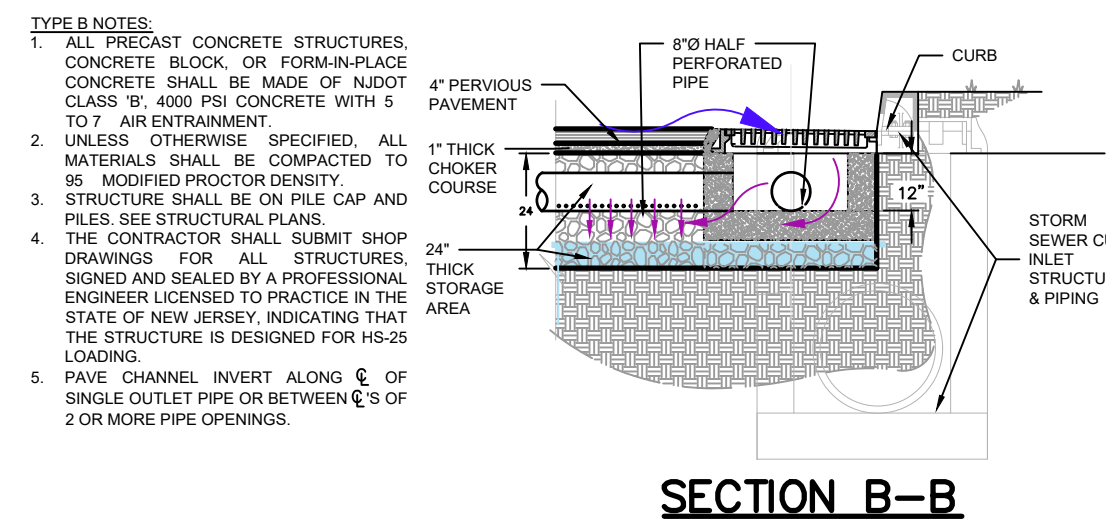
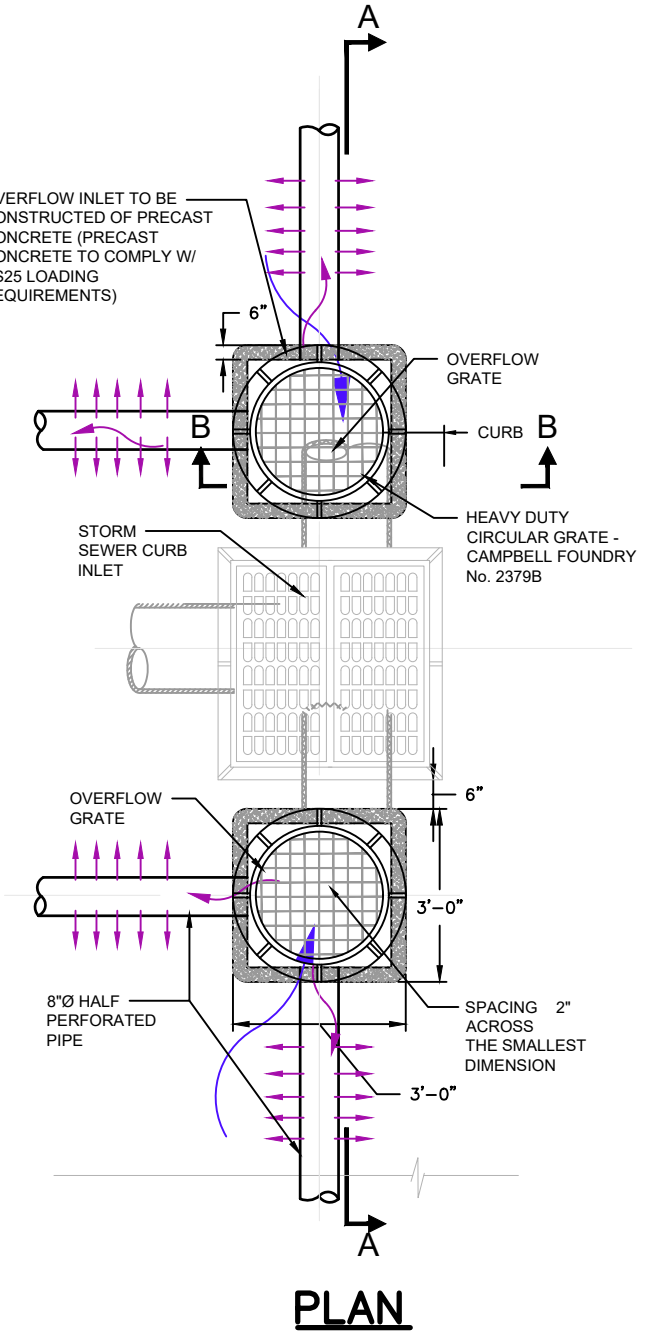
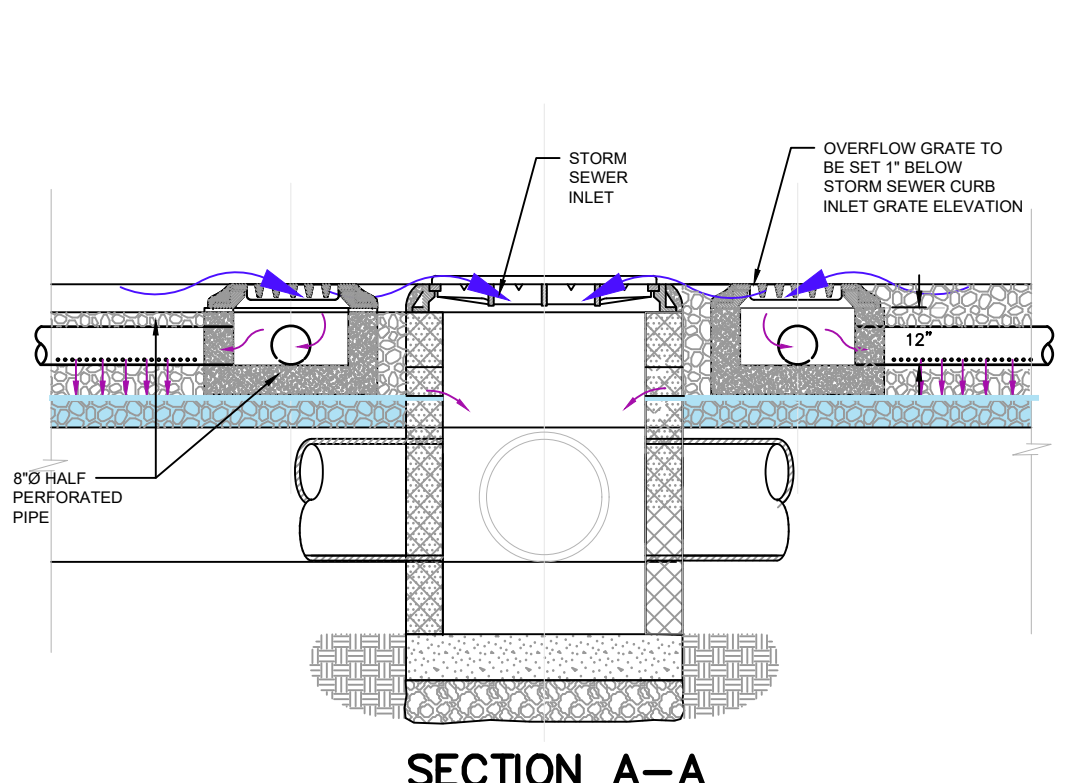
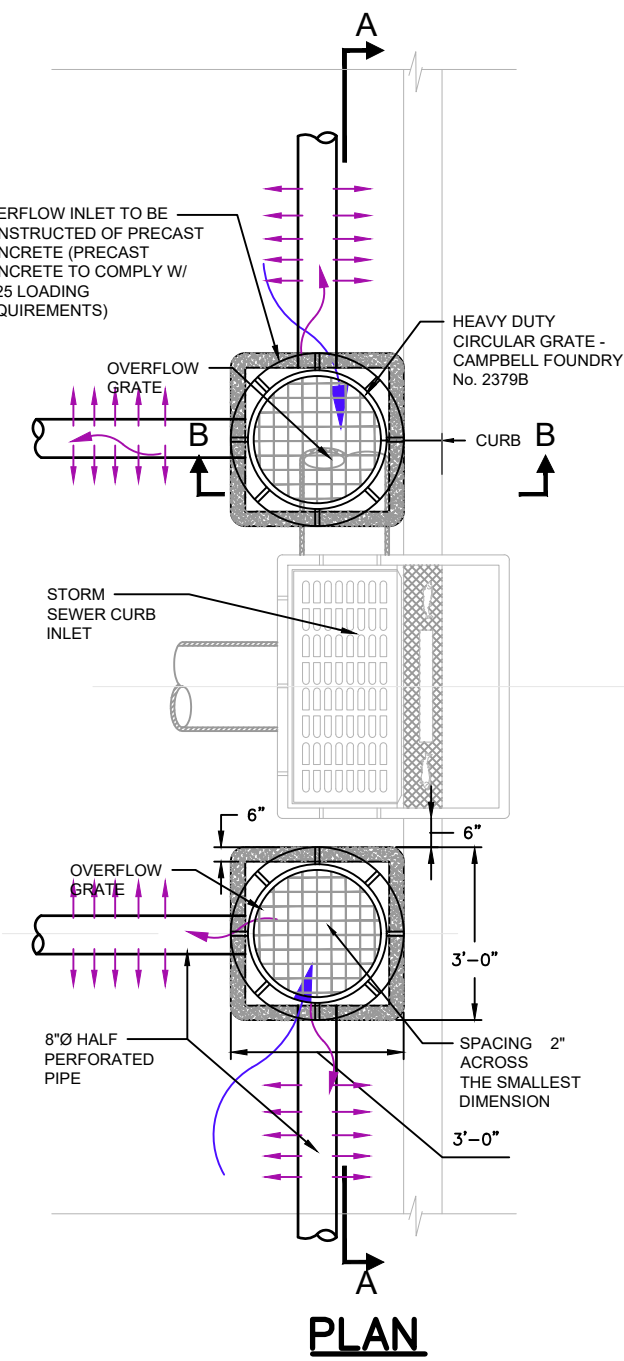
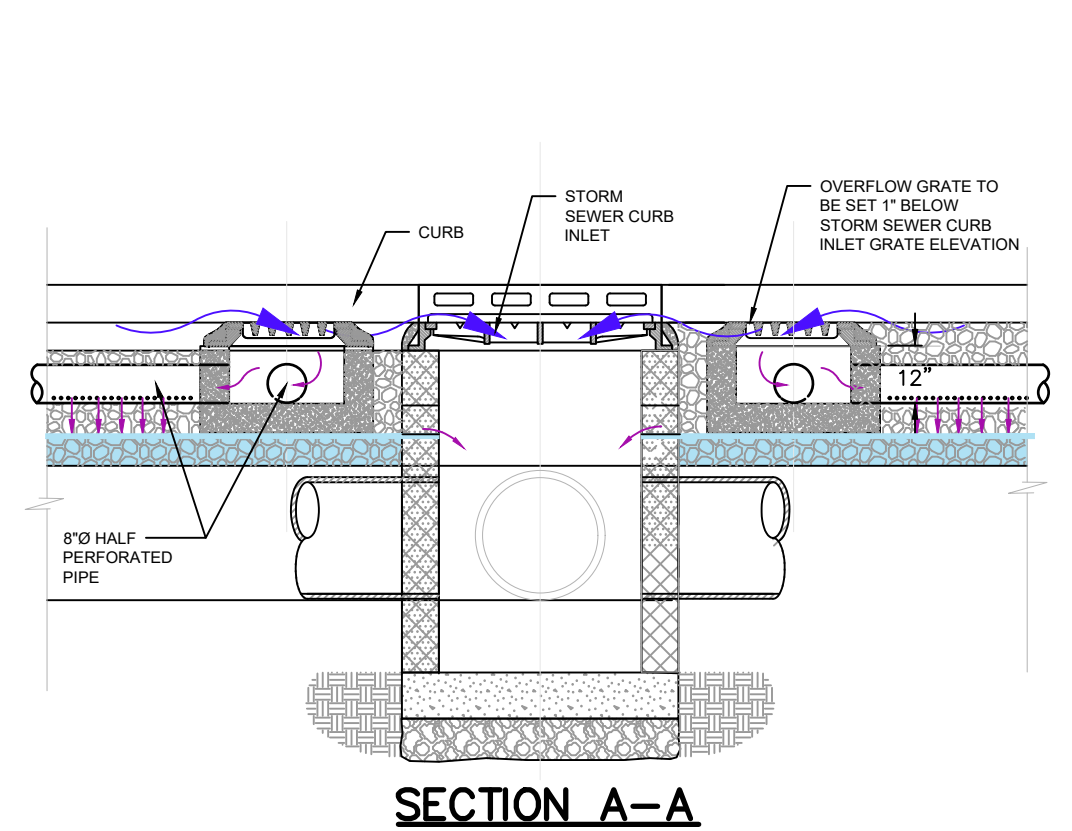
- NOTE:**
- AT LEAST ONE OBSERVATION WELL WITH A REMOVABLE CAP MUST BE PROVIDED AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE PERVIOUS SECTION OF PIPES WITHIN THE PERVIOUS PAVEMENT SECTIONS. CAP MUST BE FLUSH WITH THE SURFACE COURSE PLACED AT LEAST 3 FEET FROM ANY EDGE AND HAVE A COVER THAT CAN ACCOMMODATE HS25 LOADING. EACH OBSERVATION WELL MUST ALSO EXTEND DOWN AND CONNECT TO THE UNDERDRAIN PIPE NETWORK (USING A TEE SECTION).
 - SEE SHEET C-19 FOR PERVIOUS PAVEMENT DETAIL.



1 CONCRETE HEADWALL
SCALE: NTS

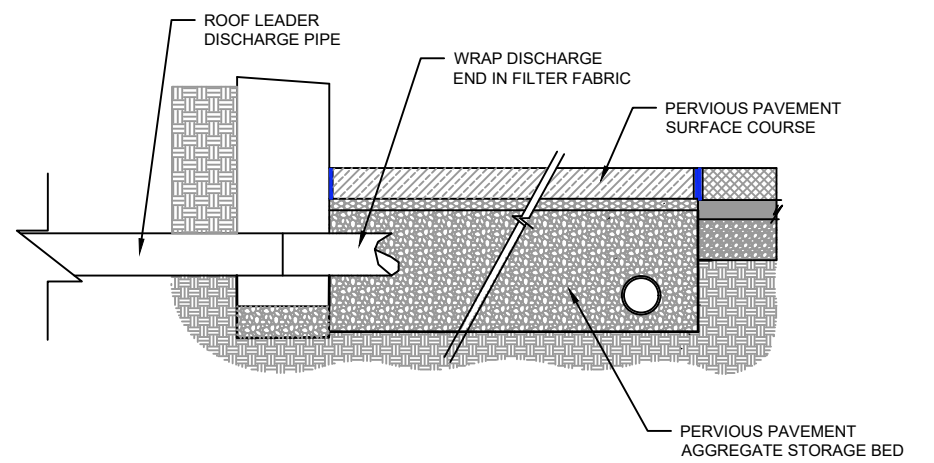
2 PERVIOUS PAVEMENT OBSERVATION WELL
SCALE: NTS

3 PERVIOUS PAVEMENT OUTLET STRUCTURE
SCALE: NTS



4 OVERFLOW * CURB INLET DETAILS FOR TYPE "B" INLET
SCALE: NTS

5 OVERFLOW * CURB INLET DETAILS FOR TYPE "E" INLET
SCALE: NTS



6 ROOF DRAIN LEADER DISCHARGE INTO PERVIOUS PAVEMENT AREAS
SCALE: NTS

- TYPE B NOTES:**
- ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B' 4000 PSI CONCRETE WITH 5 TO 7% AIR ENTRAINMENT.
 - UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 - STRUCTURE SHALL BE ON PILE CAP AND PILES SEE STRUCTURAL PLANS.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW JERSEY, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING.
 - PAVE CHANNEL INVERT ALONG $\frac{1}{2}$ OF SINGLE OUTLET PIPE OR BETWEEN $\frac{1}{4}$ OF 2 OR MORE PIPE OPENINGS.

- TYPE E NOTES:**
- ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B' 4000 PSI CONCRETE WITH 5 TO 7% AIR ENTRAINMENT.
 - UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 - STRUCTURE SHALL BE INSTALLED ON PILE CAP AND PILES. SEE STRUCTURAL PLANS.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW JERSEY, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING.
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CONSULTANT

ORIENTATION / KEY PLAN

CLIENT

EL-ION FRANKLINE PARTNERS, LLC
3323 NE 163RD STREET, SUITE 600
MIAMI, FLORIDA 33160

PS&S PAULUS, SOKOLOWSKI AND SARTOR, LLC.

3 MOUNTAINVIEW ROAD
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 563-9700

CERTIFICATE OF AUTHORIZATION NO. 24GCA9832700

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CRAIG HERMANN, P.E.
PROFESSIONAL ENGINEER
N.J. LIC. NO. 45107

02/08/2023
SIGNATURE DATE

PROJECT

PROPOSED WAREHOUSE
COMPLEX
BUILDINGS A & B

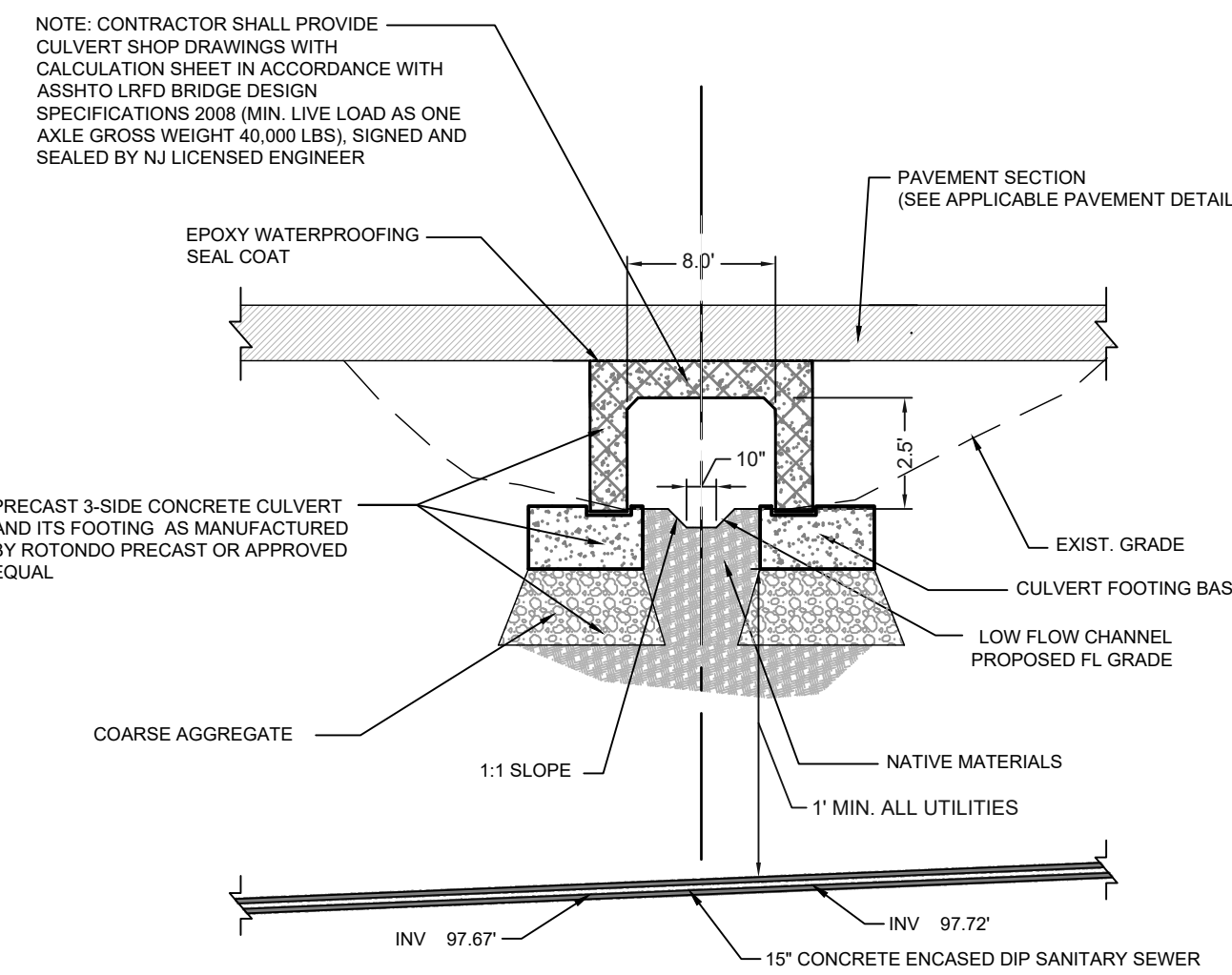
BLOCK 88.02, LOT 13.01
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE

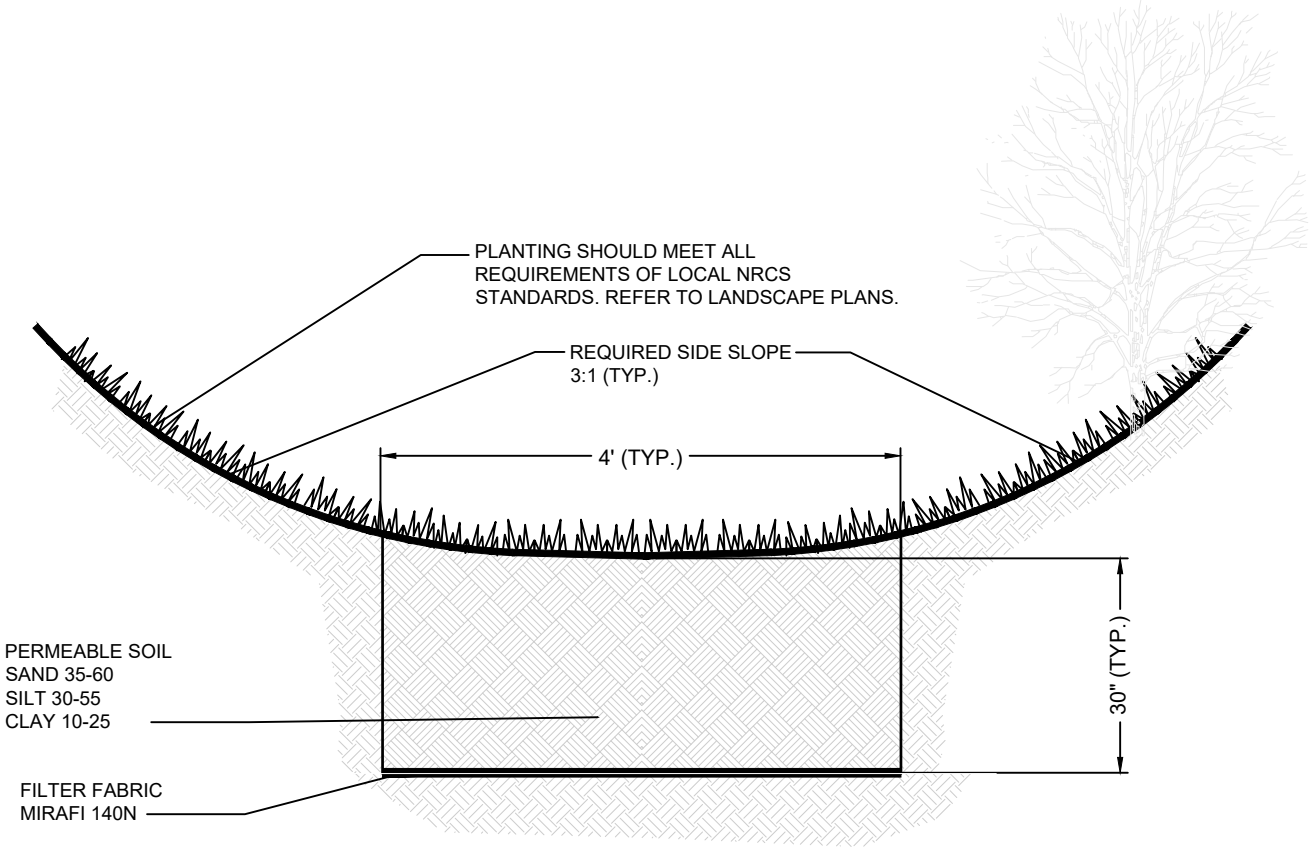
STORMWATER
DETAILS

PROJECT NO.: 04596-0014 DRAWN BY: CWJMS
SCALE: AS SHOWN CHECKED BY: CH
DATE: 4/8/2022 SHEET 22 OF 29
SHEET NO. C-22

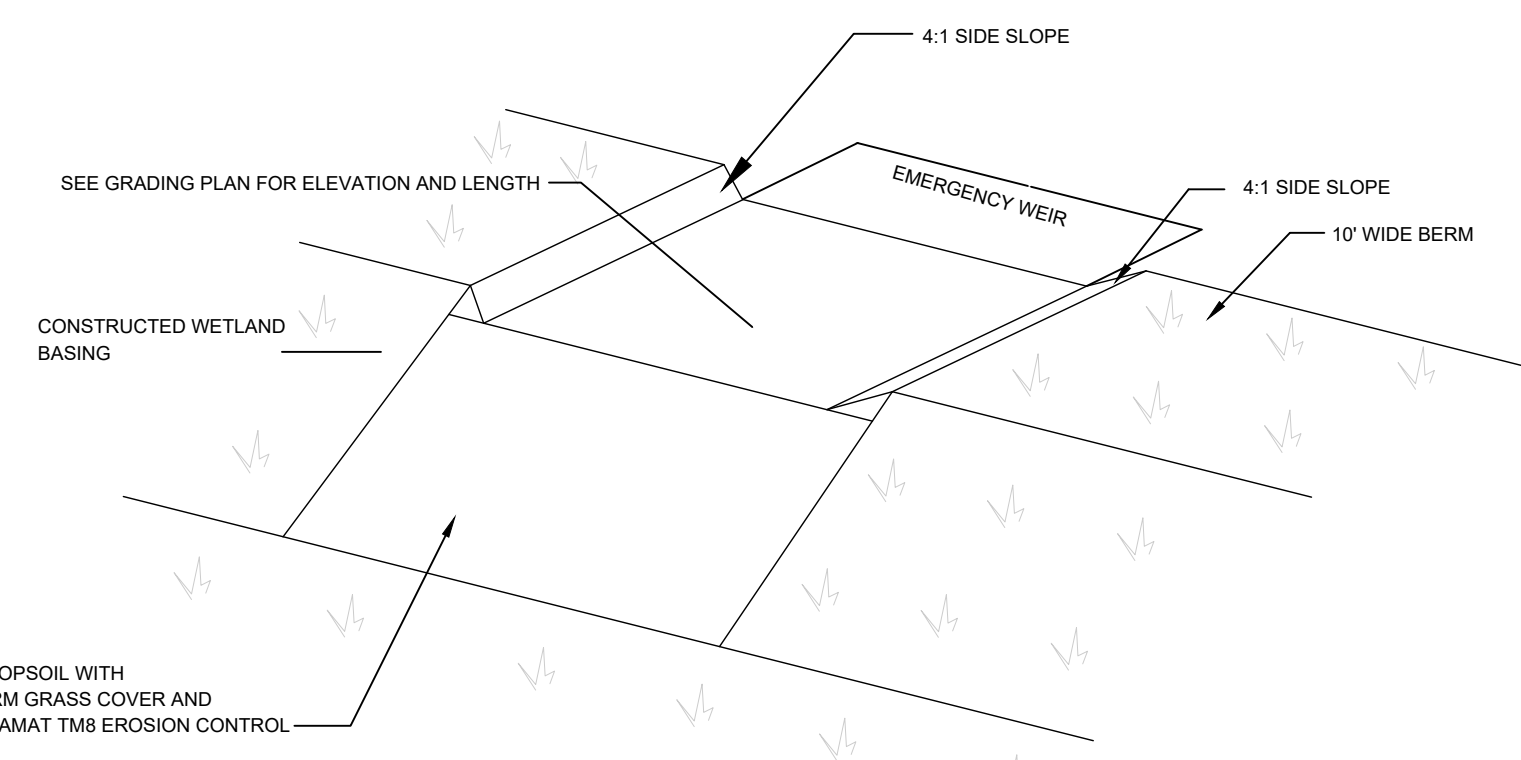
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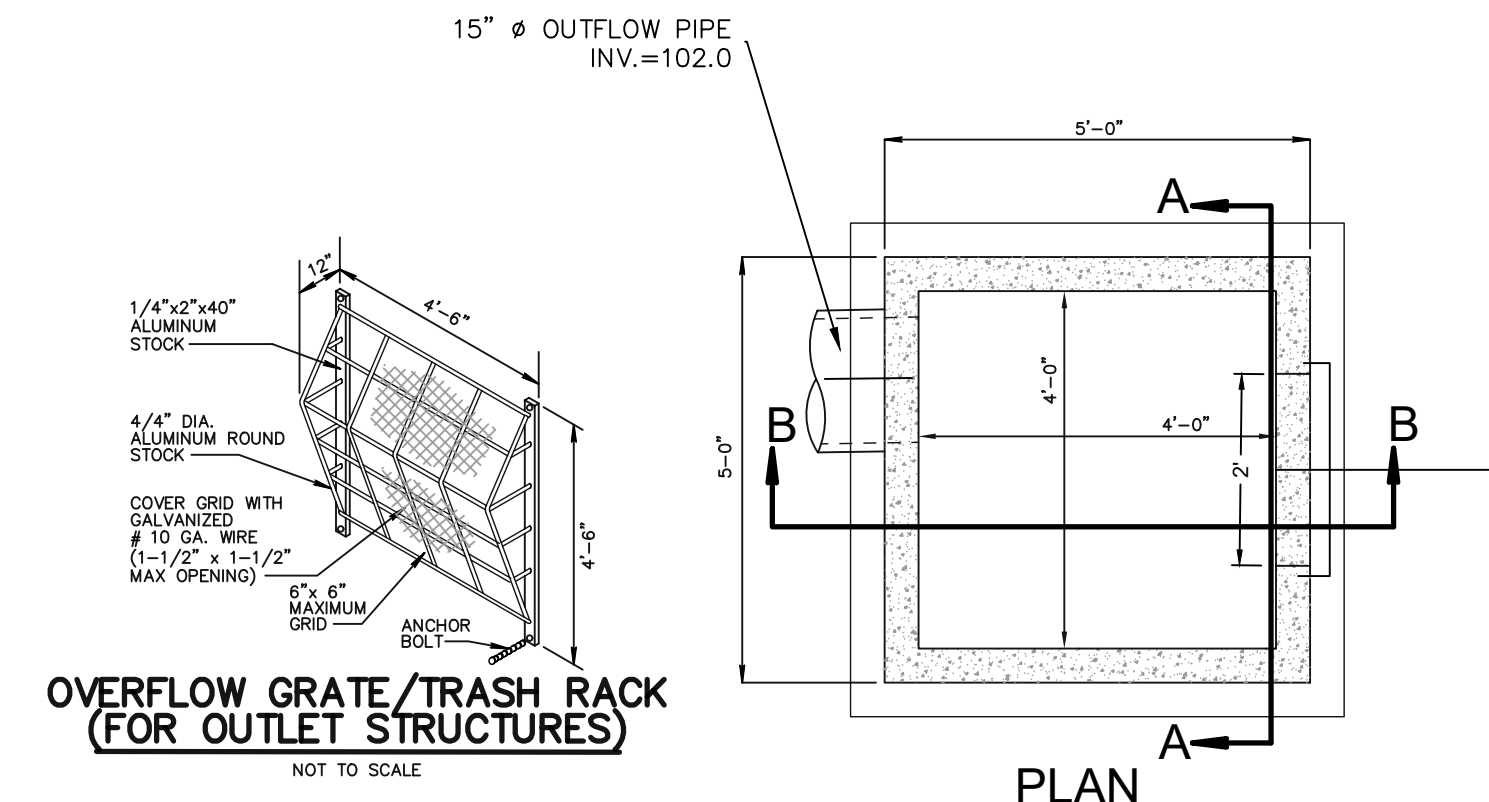
1 CONCRETE CULVERT
SCALE: NTS



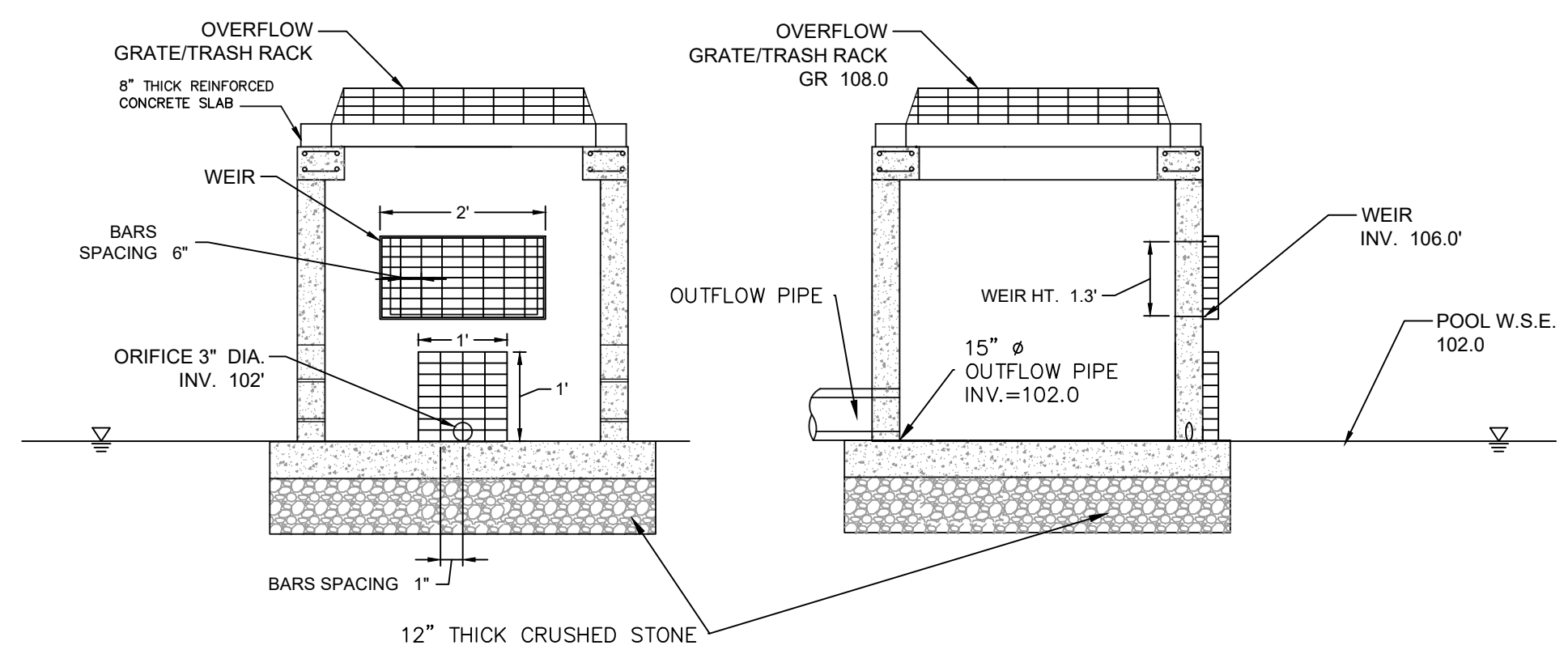
2 VEGETATED SWALE SECTION
SCALE: NTS



5 EMERGENCY SPILLWAY - EXTENDED DETENTION CONSTRUCTED WETLAND
SCALE: NTS



PLAN

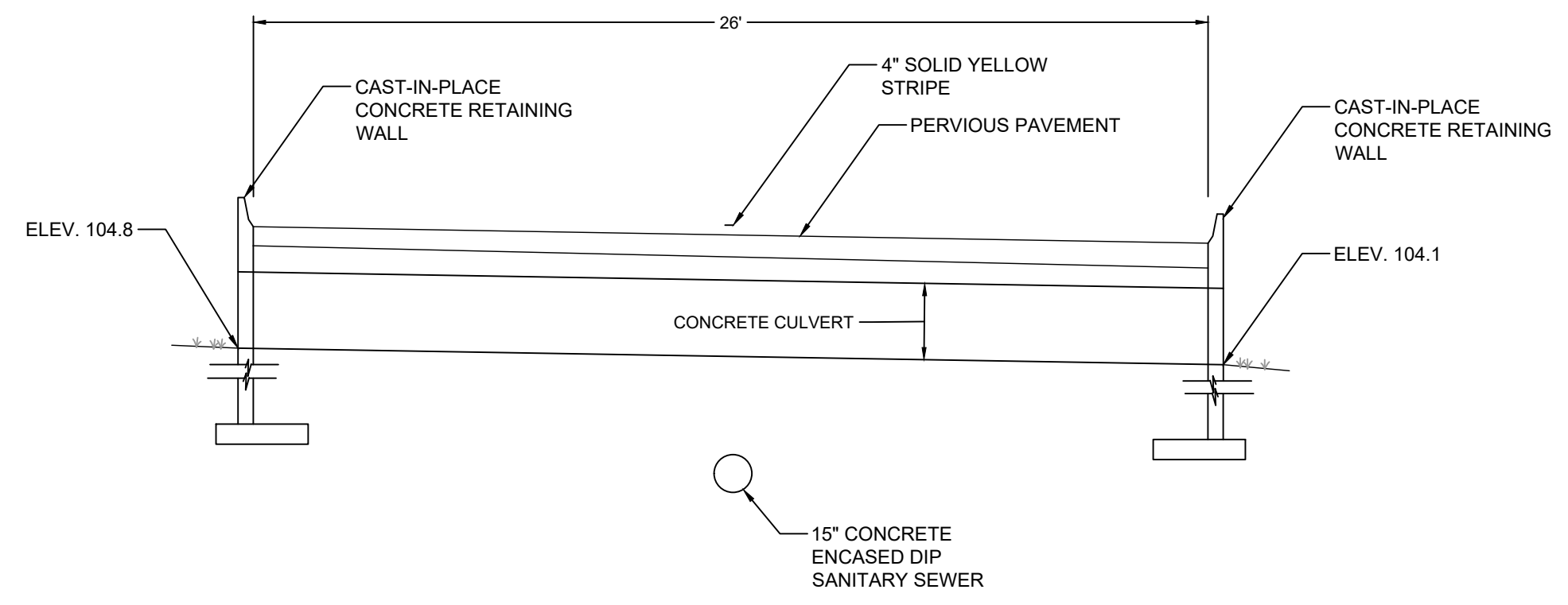


SECTION A-A

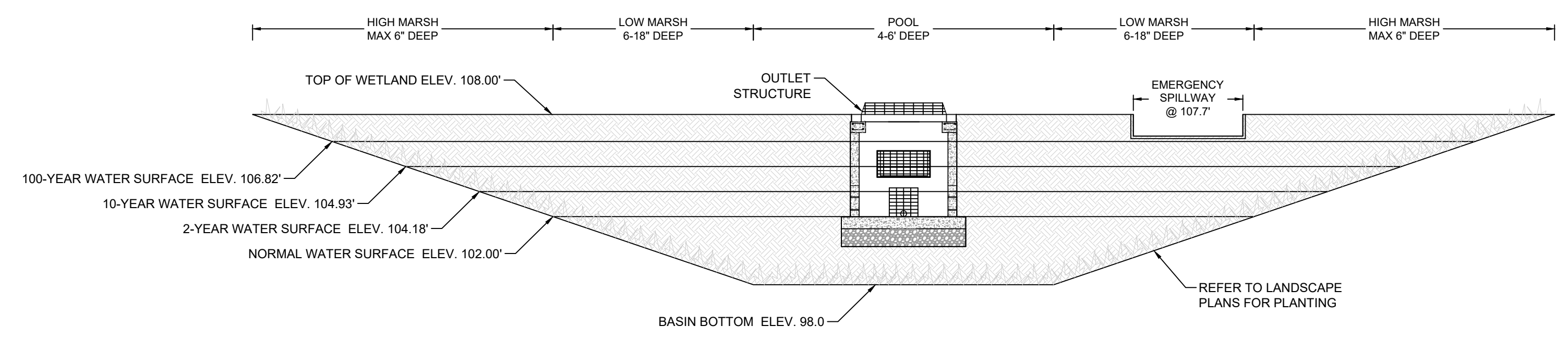
SECTION B-B

- GENERAL NOTES:
- FOOTER TO BE NASH CLASS "D" CONCRETE.
 - INVERT TO BE CLASS "C" CONCRETE.
 - IF WALL CONSTRUCTION IS OTHER THAN CONCRETE, THE WALLS SHALL BE PLASTERED BOTH INSIDE AND OUTSIDE WITH 1/2" THICK CEMENT PLASTER.
 - FRAME AND GRATE TO BE NO. 1303 AS MANUFACTURED BY CAMPBELL FOUNDRY CO. OR EQUAL.
 - WHEN ADDITIONAL DEPTH IS SCHEDULED, WALLS BELOW THE DEPTH AT 6'-0" MEASURED FROM THE INLET OUTLET TO INVERT, SHALL BE THE FOUNDATION DIMENSION SHALL BE INCREASED 12" IN WIDTH AND TO 12" IN DEPTH.
 - SHOP DRAWINGS TO BE PROVIDED FOR APPROVAL OF ENGINEER.

3 OUTLET STRUCTURE DETAIL - EXTENDED DETENTION CONSTRUCTED WETLAND
NOT TO SCALE



4 CROSS SECTION AT CONCRETE CULVERT
NOT TO SCALE

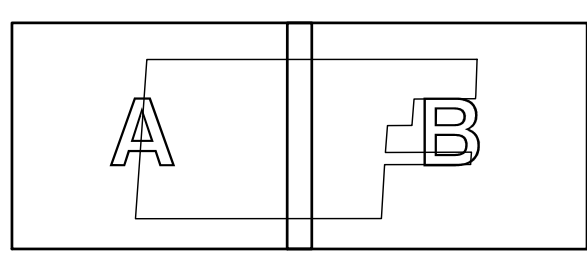


6 EXTENDED DETENTION CONSTRUCTED WETLAND CROSS SECTION DETAIL
SCALE: NTS

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PROFESSIONAL ENGINEER
N.J. LIC. NO. 45107

SIGNATURE DATE 02/08/2023

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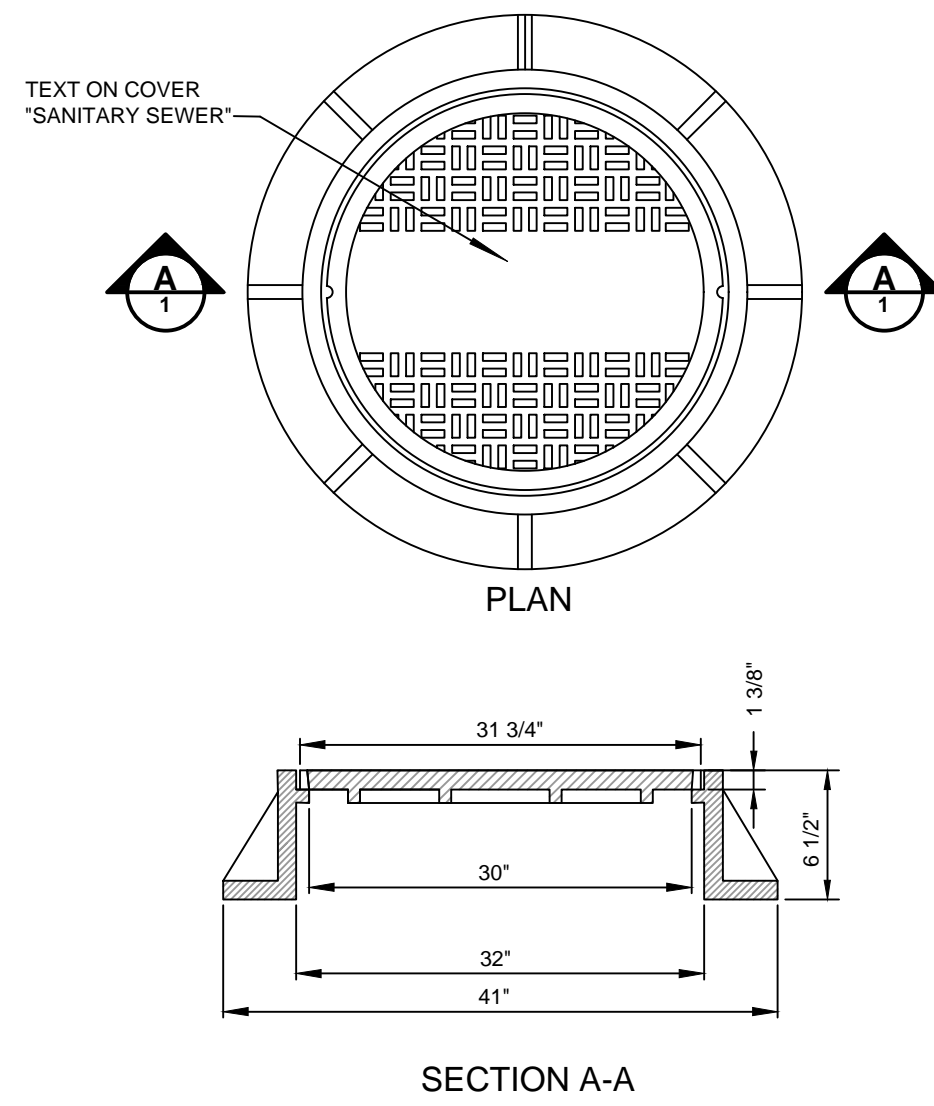
SHEET TITLE

STORMWATER DETAILS

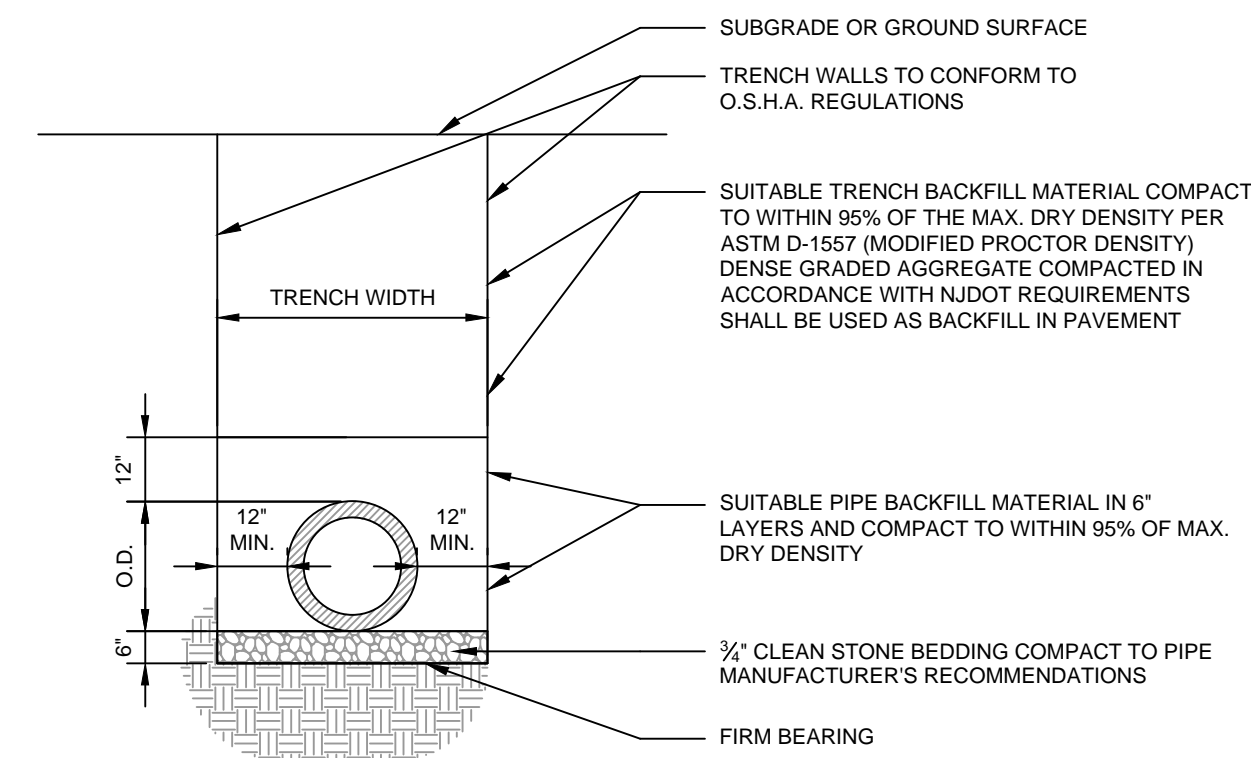
PROJECT NO.: 04596-0014 DRAWN BY: CY/JMS
SCALE: AS SHOWN CHECKED BY: CH
DATE: 4/8/2022 SHEET 23 OF 29

SHEET NO. C-23

FILE NAME: P:\45459010\EDWDG-Culvert\DWG-Culvert\AN.dwg; User: crahmann; Date: 02/08/2023 03:33:54 PM; LOGIN: craighermann@psand.com

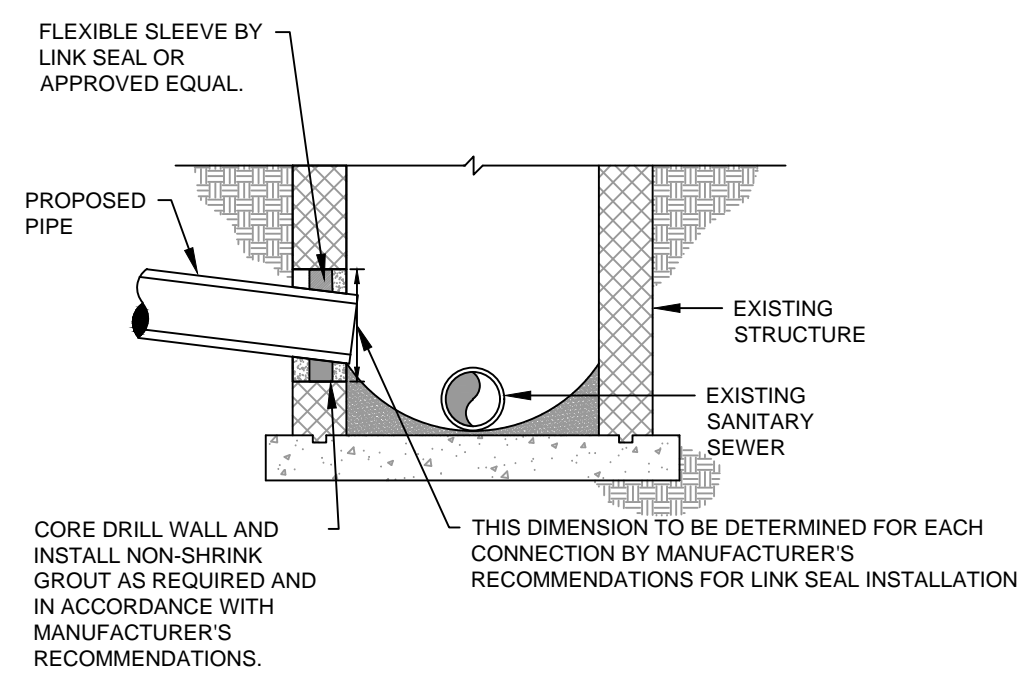


1 MANHOLE FRAME AND COVER
SCALE: NTS

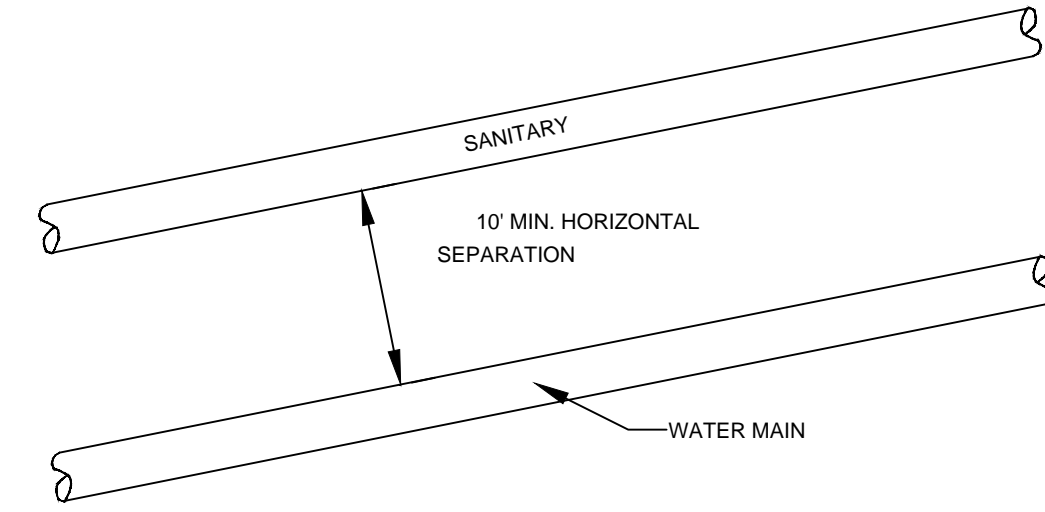


- NOTES:**
- TRENCH WIDTH SHALL BE A MINIMUM OF 12" EACH SIDE PLUS THE OUTSIDE DIAMETER OF THE PIPE. TRENCH WIDTH SHALL NOT EXCEED THAT REQUIRED FOR PROPER INSTALLATION BACKFILL AND COMPACTION OPERATIONS.
 - ALL SUITABLE BACKFILL AND STONE BEDDING SHALL BE AS PER SPECIFICATIONS AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
 - WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE MECHANICALLY CUT. PATCHING SHALL CONSIST OF TACKING EDGES OF EXISTING PAVEMENT, AND INSTALLING NEW PAVEMENT. COMPACTION IN ACCORDANCE WITH NJDOT SPECIFICATIONS.
 - COMPACTION TO CONFORM TO ASTM D-1557.
 - PIPE BEDDING AND BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER REQUIREMENTS.

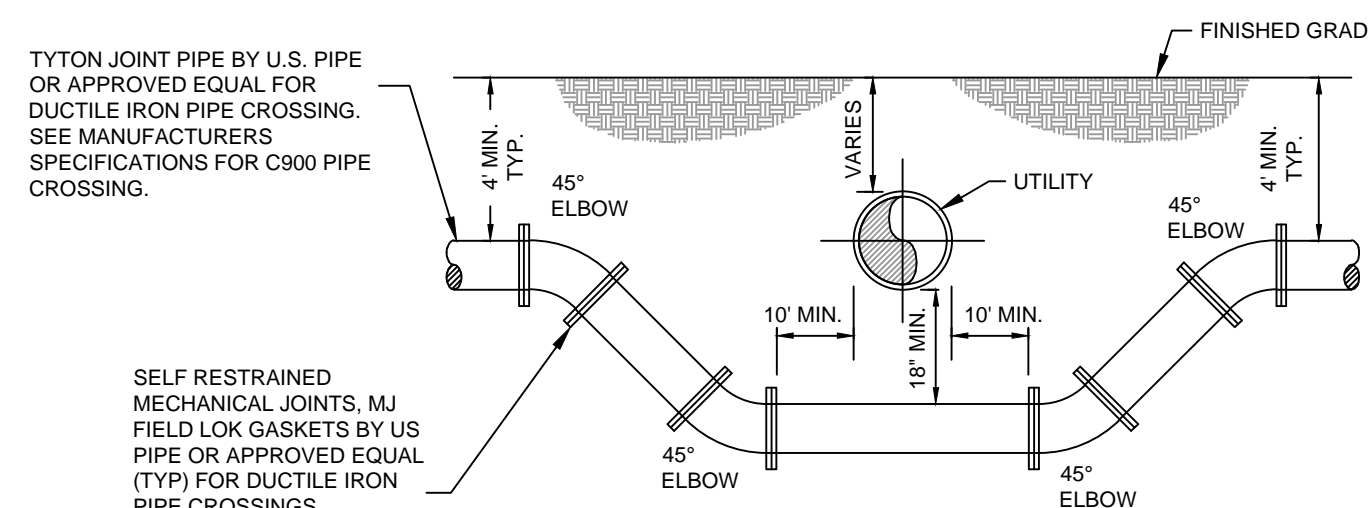
3 PVC PIPE TRENCH
SCALE: NTS



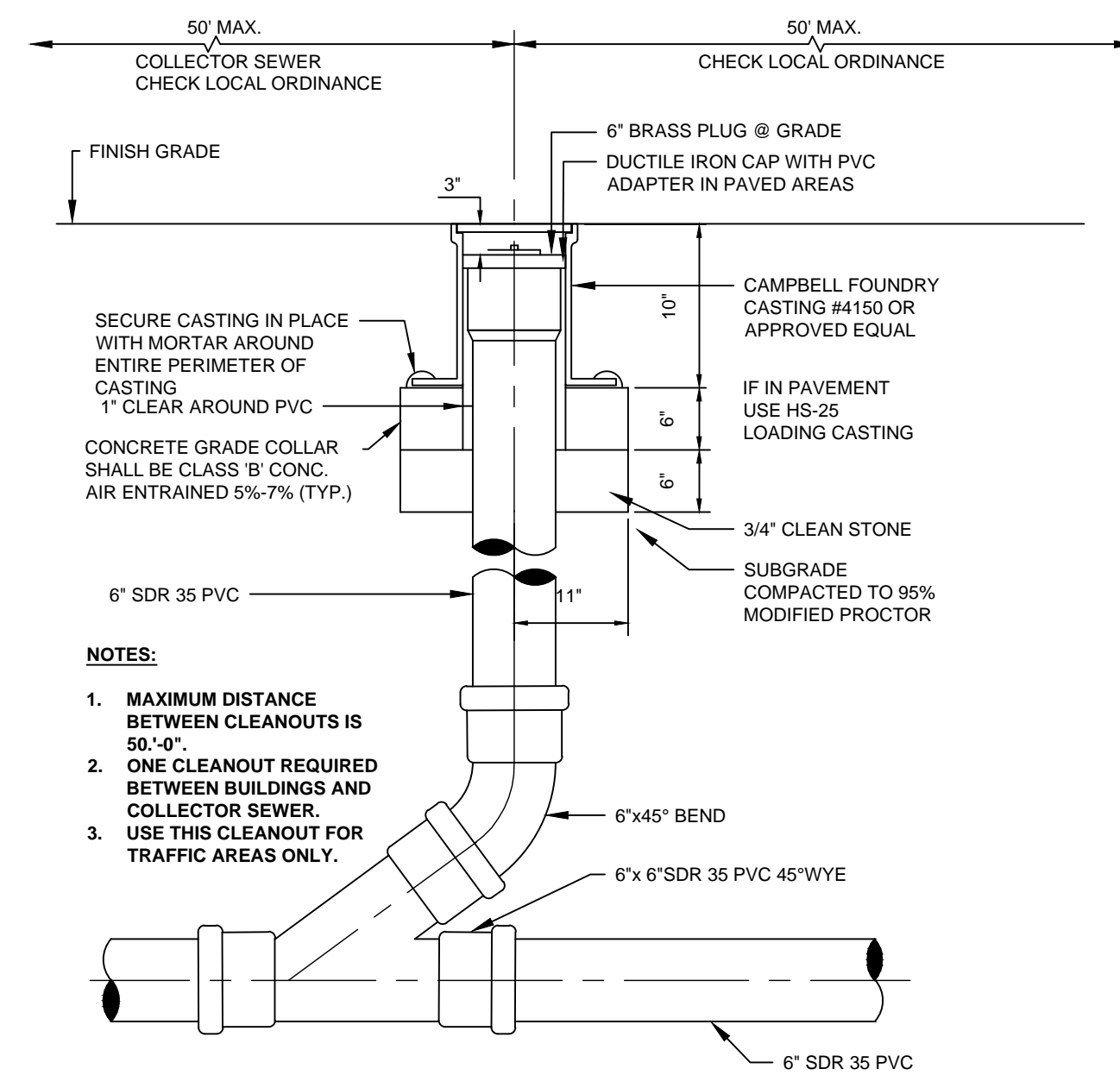
5 SANITARY SEWER CONNECTION TO EXISTING STRUCTURE
SCALE: NTS



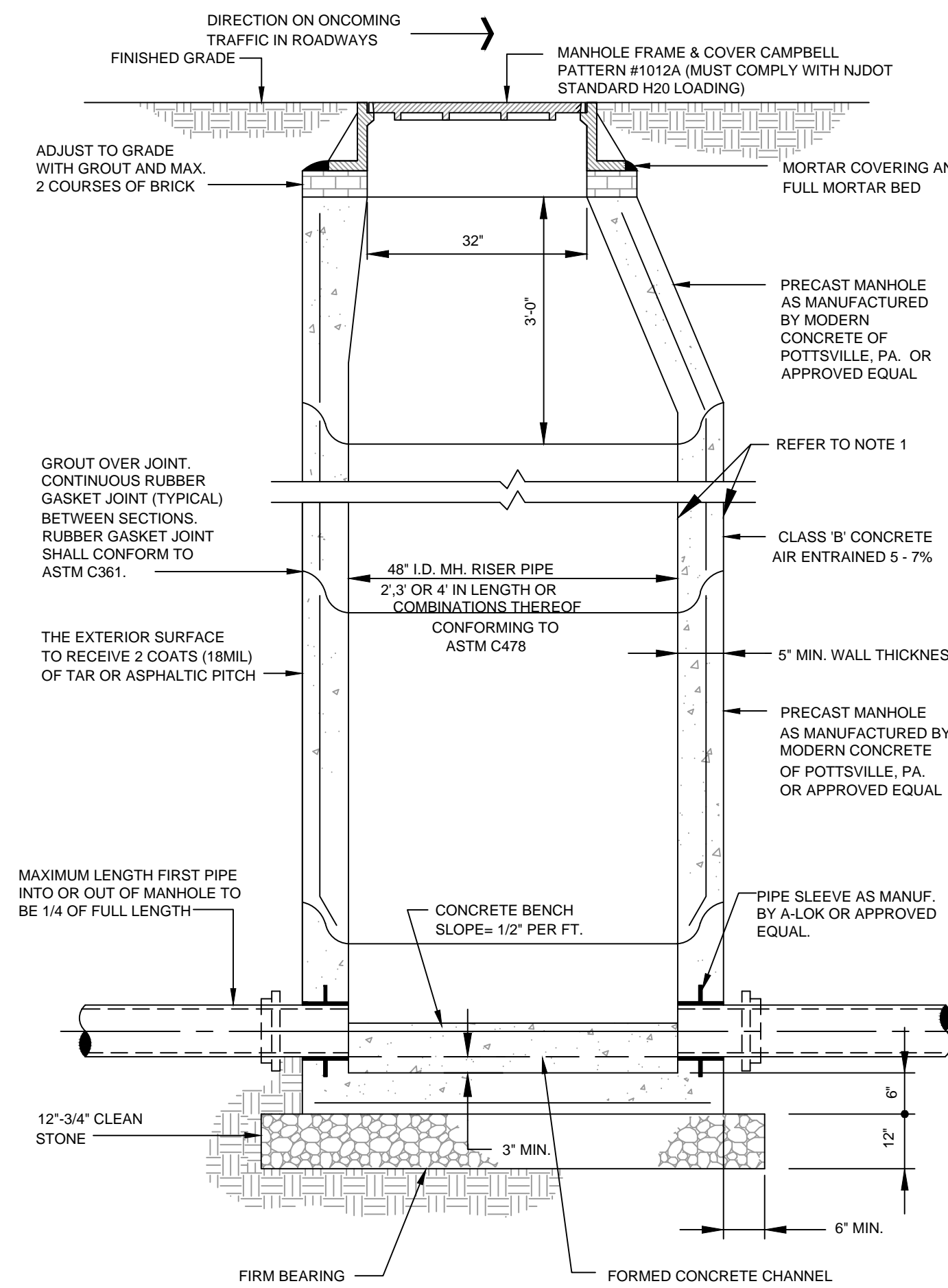
2 WATER LINE AND SANITARY SEWER SEPARATION
SCALE: NTS



4 UTILITY CROSSING
SCALE: NTS

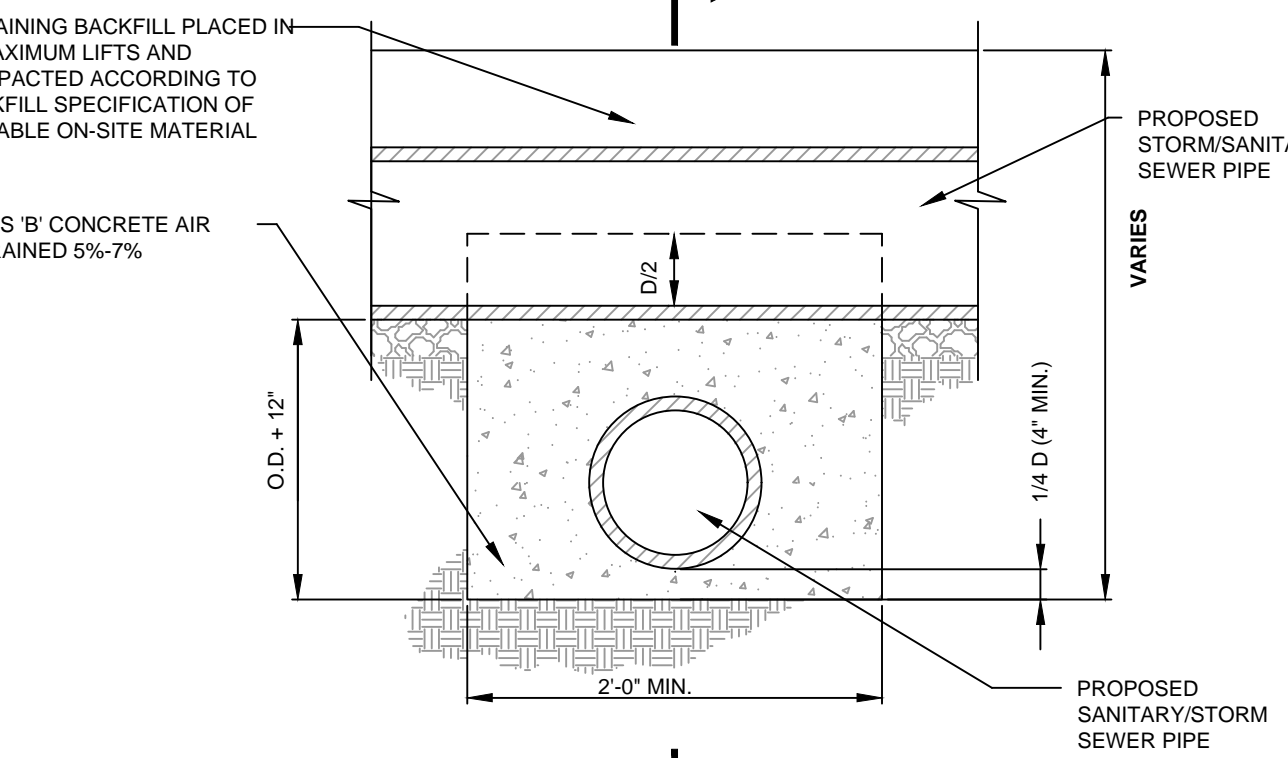
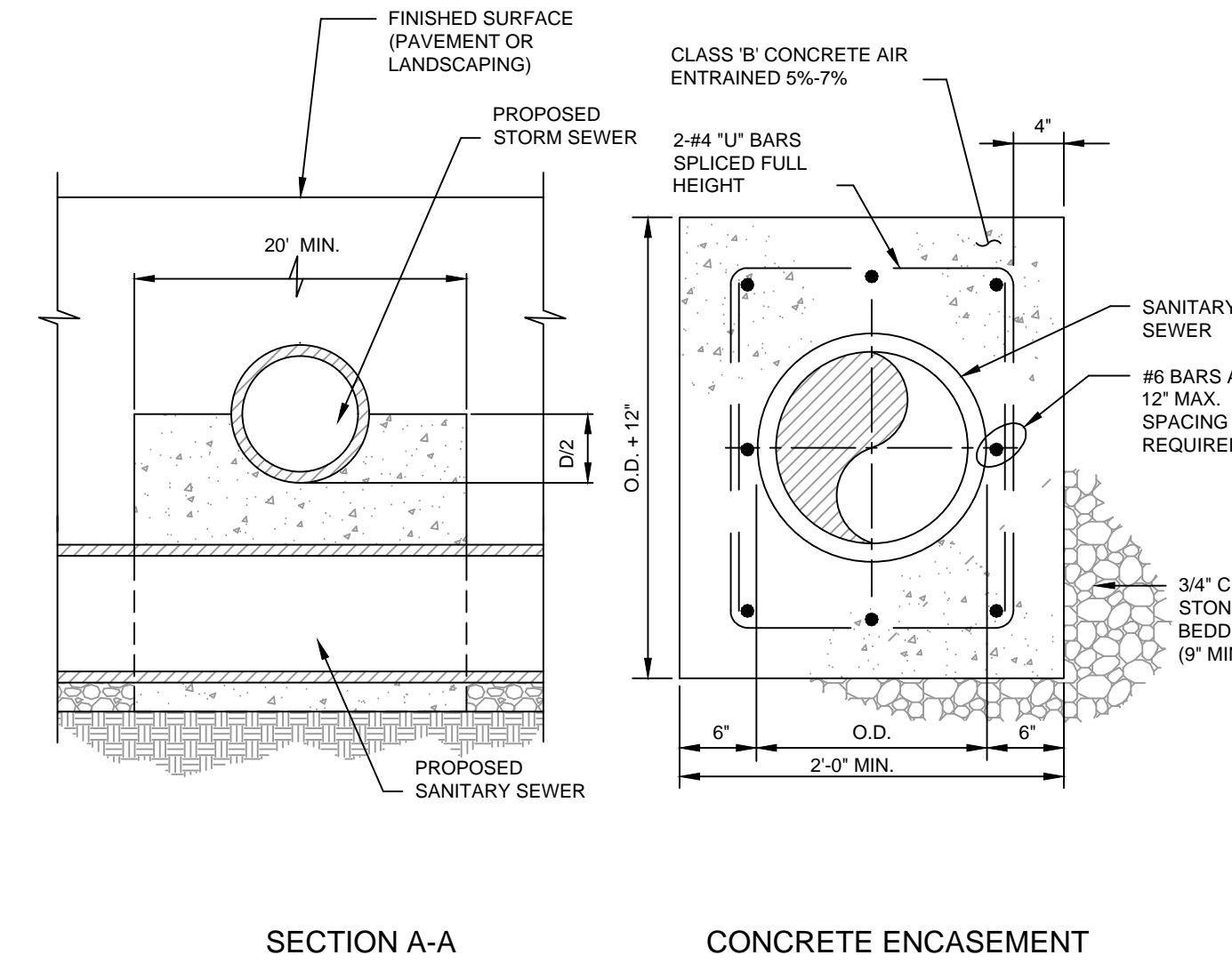


6 SANITARY CLEANOUT
SCALE: NTS



- NOTES:**
- PRECAST UNITS, APPLY 2 COATS (18 MIL) OF CARBOLINE 50 TO EXTERNAL WALLS OR APPROVED EQUAL.
 - ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5% TO 7% AIR ENTRAINMENT.
 - UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
 - STRUCTURE SHALL BE INSTALLED ON 12" THICK PAD OF 3/4" CLEAN STONE INSTALLED ON FIRM BEARING.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADS.
 - PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S OF 2 OR MORE PIPE OPENINGS

5 STANDARD SANITARY SEWER MANHOLE
SCALE: NTS



- NOTES:**
- ALL SANITARY SEWER PIPES WITHIN 18 INCHES OR LESS OF A STORM SEWER PIPE SHALL BE ENCASED IN CONCRETE.
 - THE LENGTH OF ENCASEMENT SHALL BE A MINIMUM OF 10' EACH WAY FROM THE CENTERLINE OF THE CROSSING.
 - ALL FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B' CONCRETE WITH 5% TO 7% AIR ENTRAINMENT.

6 CONCRETE ENCASEMENT
SCALE: NTS

REV. / ISSUE	DATE	DESCRIPTION
1	5/19/2022	REV 1: UPDATED PER SCD COMMENTS
2	6/7/2022	REV 2: REV FOR DEP APPLICATION
3	7/22/2022	REV 3: REV PER TWP. COMMENTS
4	9/27/2022	REV PER TWP. COMMENTS
5	02/08/2023	REV. PER TWP COMMENTS

CONSULTANT

ORIENTATION / KEY PLAN

CLIENT

EL-ION FRANKLINE PARTNERS, LLC
3323 NE 163RD STREET, SUITE 600
MIAMI, FLORIDA 33160

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
3 MOUNTAINVIEW ROAD
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 560-9700

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700
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CRAIG HERMANN, P.E.
PROFESSIONAL ENGINEER
N.J. LIC. NO. 45107

02/08/2023
SIGNATURE DATE

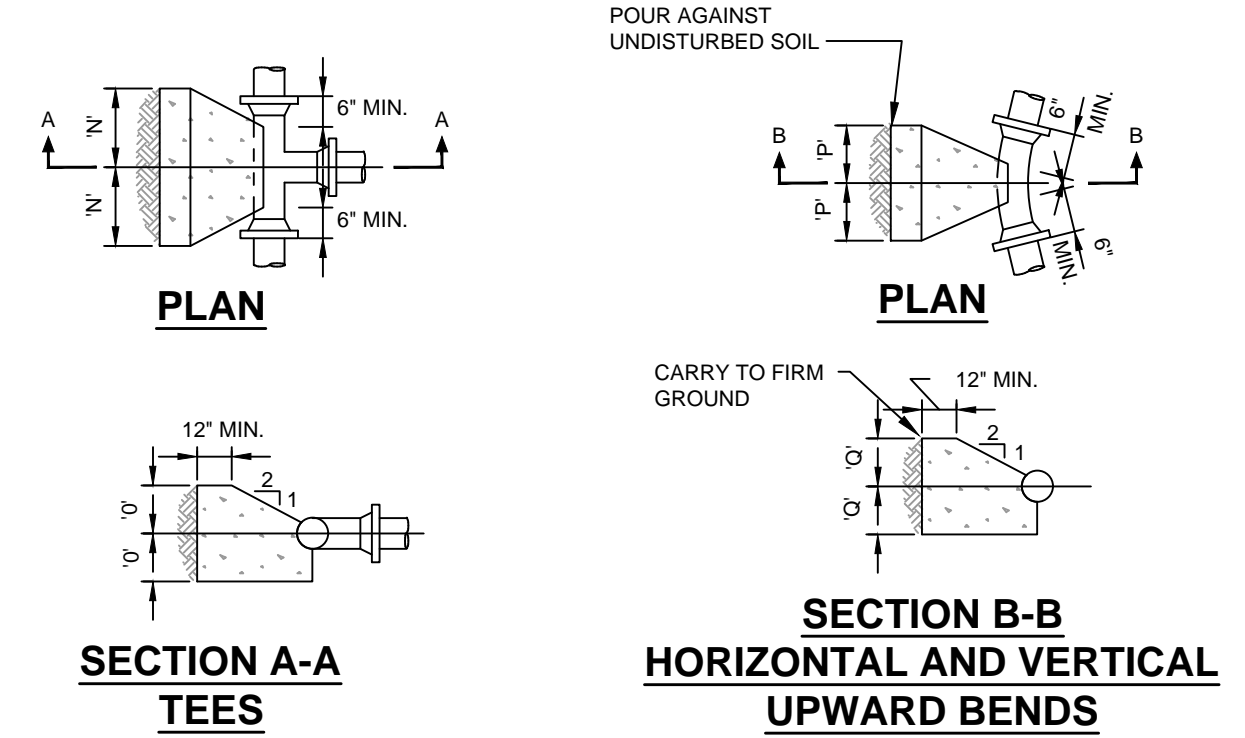
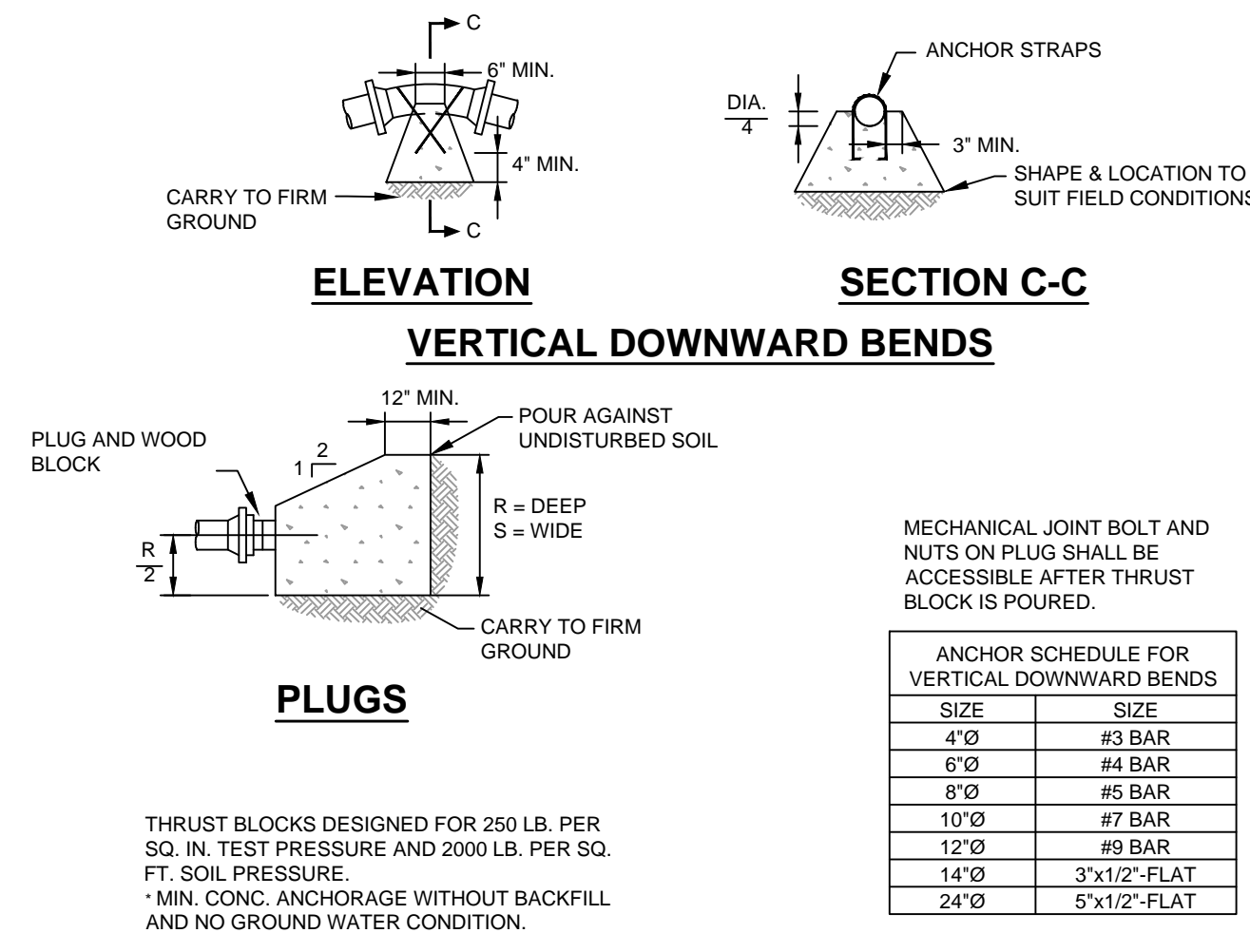
PROJECT
PROPOSED WAREHOUSE
COMPLEX
BUILDINGS A & B

BLOCK 88.02, LOT 13.01
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE

UTILITY DETAILS
(SANITARY)

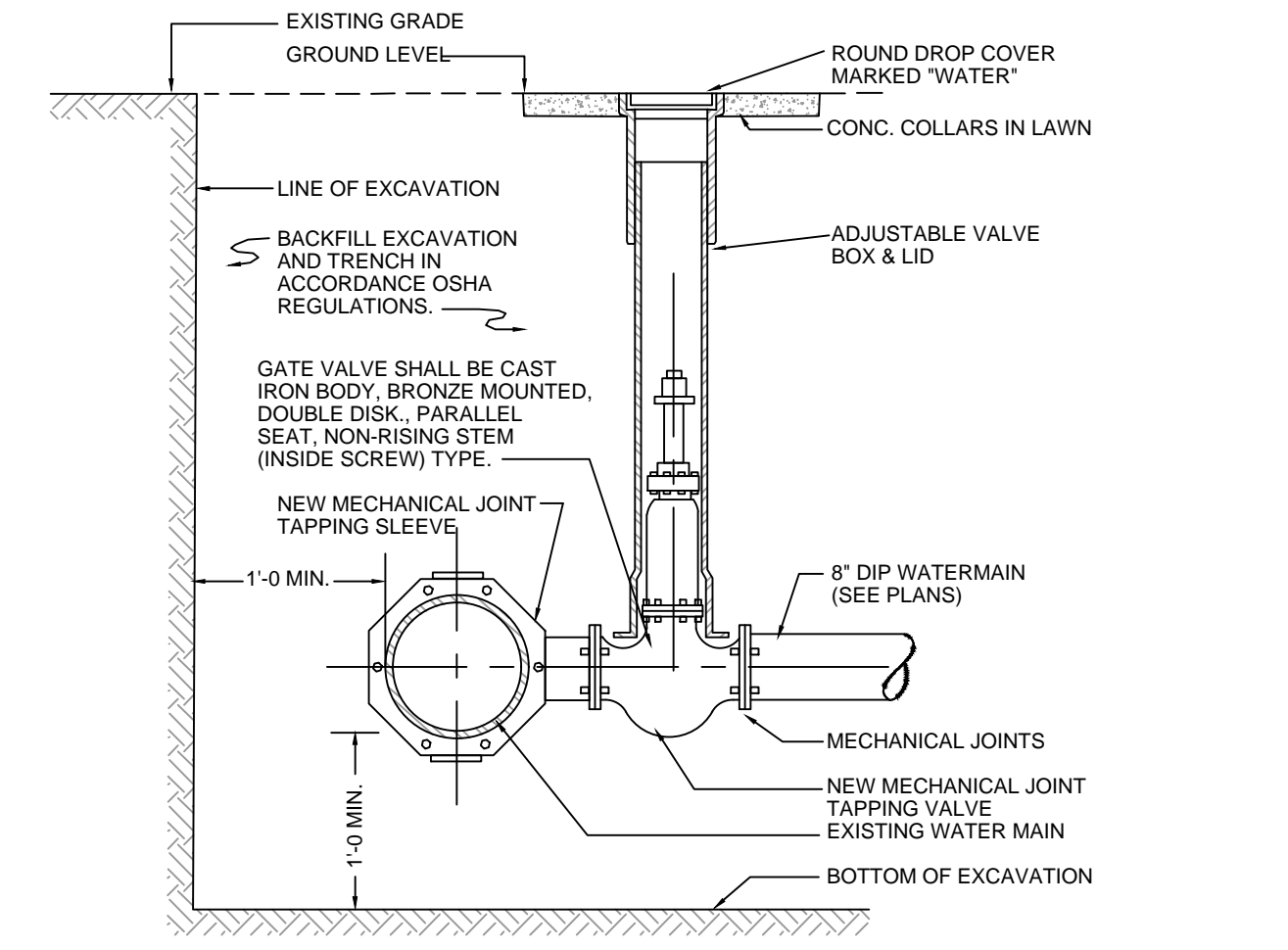
PROJECT NO.: 04596-0014 DRAWN BY: CY/JMS
SCALE: AS SHOWN CHECKED BY: CH
DATE: 4/8/2022 SHEET 24 OF 29
SHEET NO.



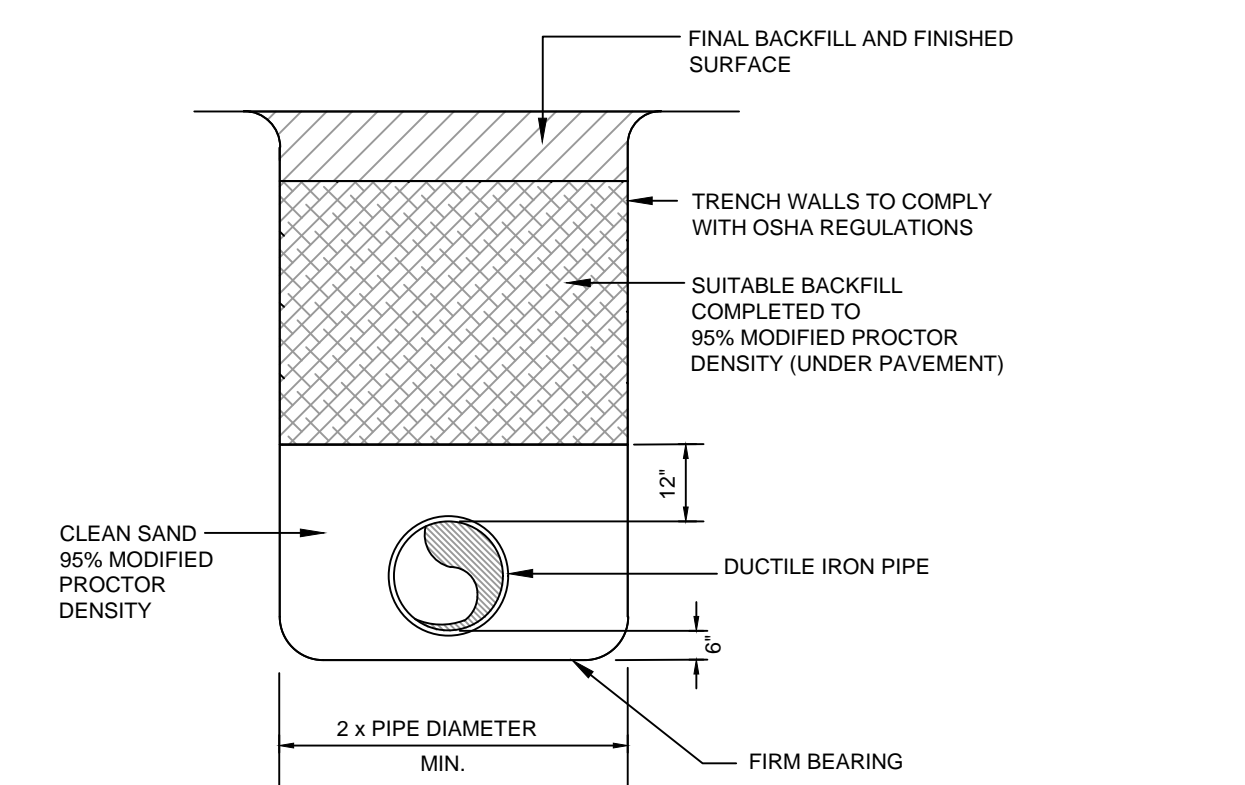
THRUST BLOCKS FOR TEES, HORIZONTAL & VERTICAL BENDS AND PLUGS

TEES	DESC	DIMENSION	4\"/>					
90° BENDS	N	0-8\"/>						
	Q	0-9\"/>						
45° BENDS	P	0-11\"/>						
	Q	0-11\"/>						
22 1/2° BENDS	P	0-8\"/>						
	Q	0-8\"/>						
11 1/4° BENDS	P	0-4\"/>						
	Q	0-4\"/>						
45° BENDS	MIN. CONC. ANCHORAGE	0.9	1.8	3.1	4.6	6.5	8.7	24.7
	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
22 1/2° BENDS	MIN. CONC. ANCHORAGE	0.5	0.9	1.6	2.4	3.3	4.4	12.6
	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
11 1/4° BENDS	MIN. CONC. ANCHORAGE	0.3	0.5	0.8	1.2	1.7	2.2	6.4
	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
PLUGS	R	1-6\"/>						
	S	1-6\"/>						

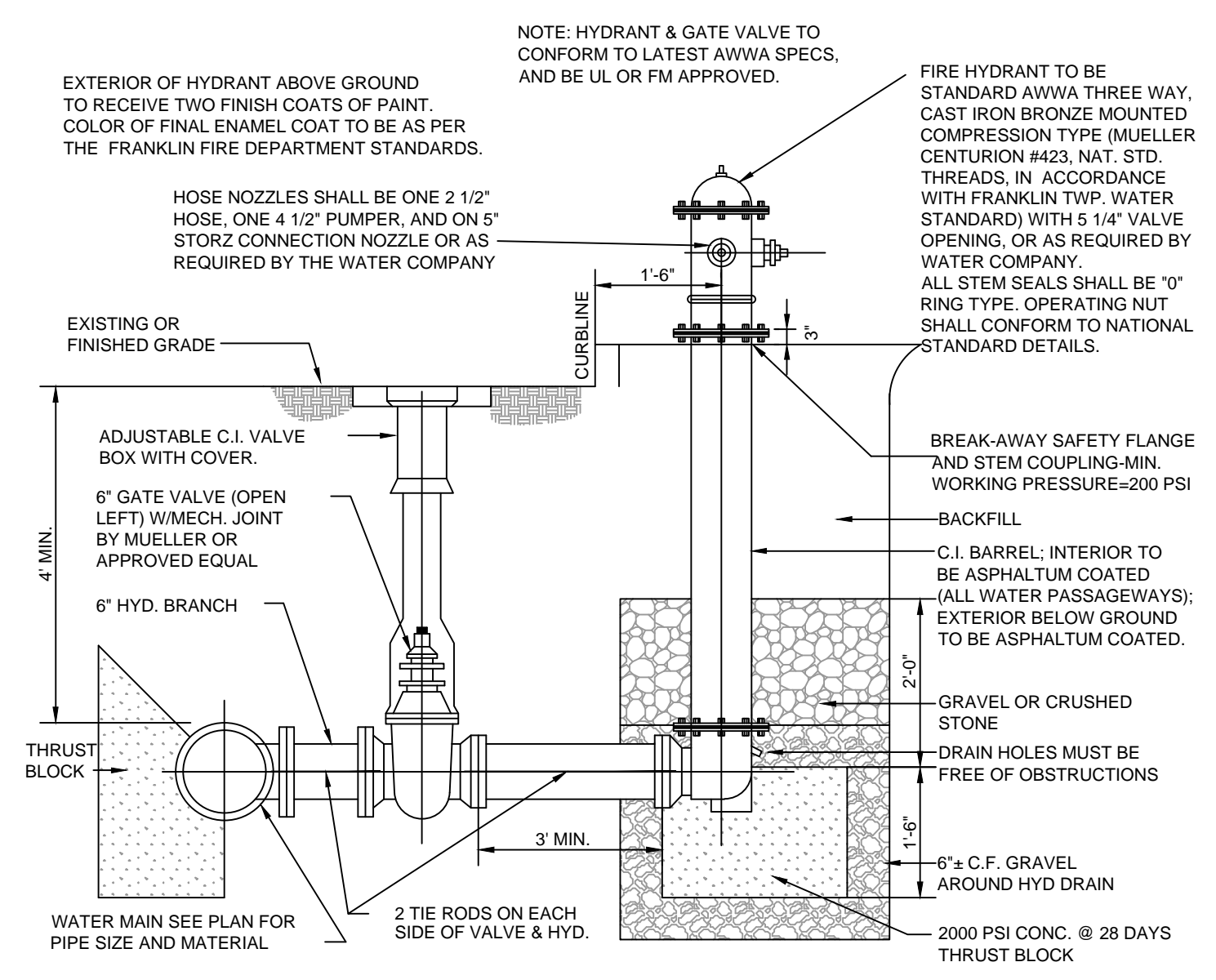
1 THRUST BLOCKS (250 PSI)
SCALE: NTS



2 GATE VALVE AND NEW WATER SERVICE CONNECTION
SCALE: NTS



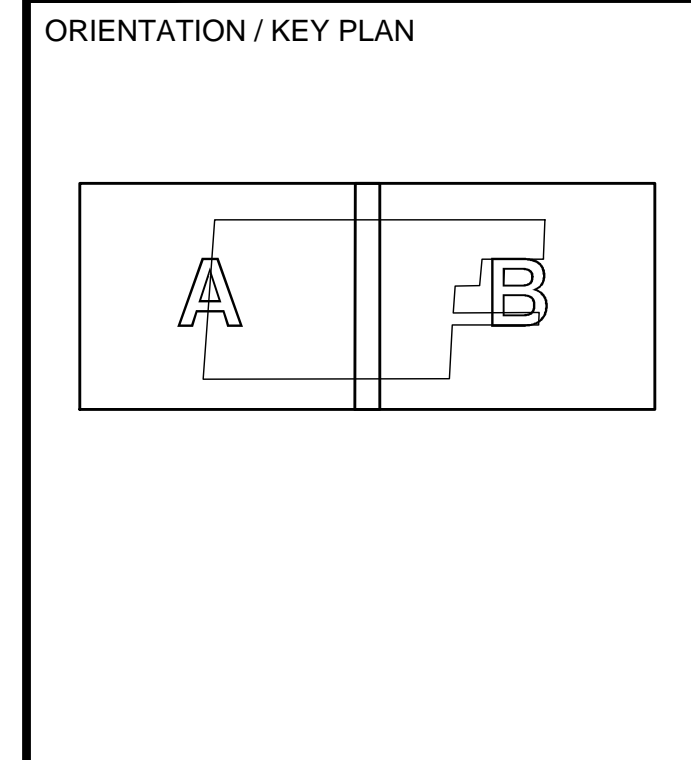
3 DUCTILE IRON PIPE TRENCH
SCALE: NTS



4 FIRE HYDRANT AND AUXILIARY GATE VALVE
SCALE: NTS

REV. / ISSUE	DATE	DESCRIPTION
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CONSULTANT



CLIENT

EL-ION FRANKLINE PARTNERS, LLC
3323 NE 163RD STREET, SUITE 600
MIAMI, FLORIDA 33160

PS&S PAULUS, SOKOLOWSKI AND SARTOR, LLC.

3 MOUNTAINVIEW ROAD
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 563-9700

CERTIFICATE OF AUTHORIZATION NO. 24GA29032700

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CRAIG HERMANN, P.E.
PROFESSIONAL ENGINEER
N.J. LIC. NO. 45107

02/08/2023
SIGNATURE DATE

PROJECT

PROPOSED WAREHOUSE COMPLEX BUILDINGS A & B

BLOCK 88.02, LOT 13.01
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

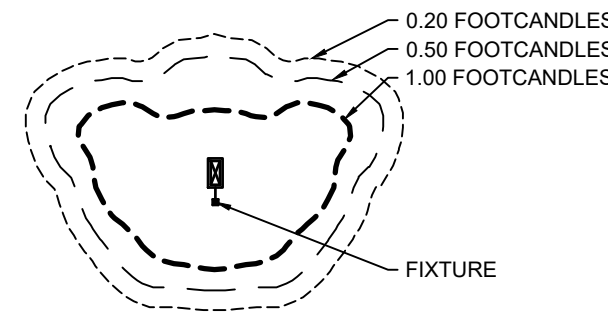
SHEET TITLE

UTILITY DETAILS

PROJECT NO.: 04596-0014 DRAWN BY: CY/JMS
SCALE: AS SHOWN CHECKED BY: CH
DATE: 4/8/2022 SHEET 25 OF 29
SHEET NO.

C-25

FILE NAME: P:\4545001\EDWDG\C-C\Plumbing\Drawings\Submittals\04596\04596-C-C-01-UTILITY\04596-C-C-01-UTILITY.dwg; DATE: 02/08/2023 10:04:47 AM; USER: cwh; LAYOUT: 04596-C-C-01-UTILITY.dwg



NOTE:

THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.

PHOTOMETRIC LIGHTING TEMPLATE

LOCATE FUSEHOLDER AND FUSE DIRECTLY INSIDE HAND HOLE SEPARATELY FOR EACH LUMINAIRE BALLAST

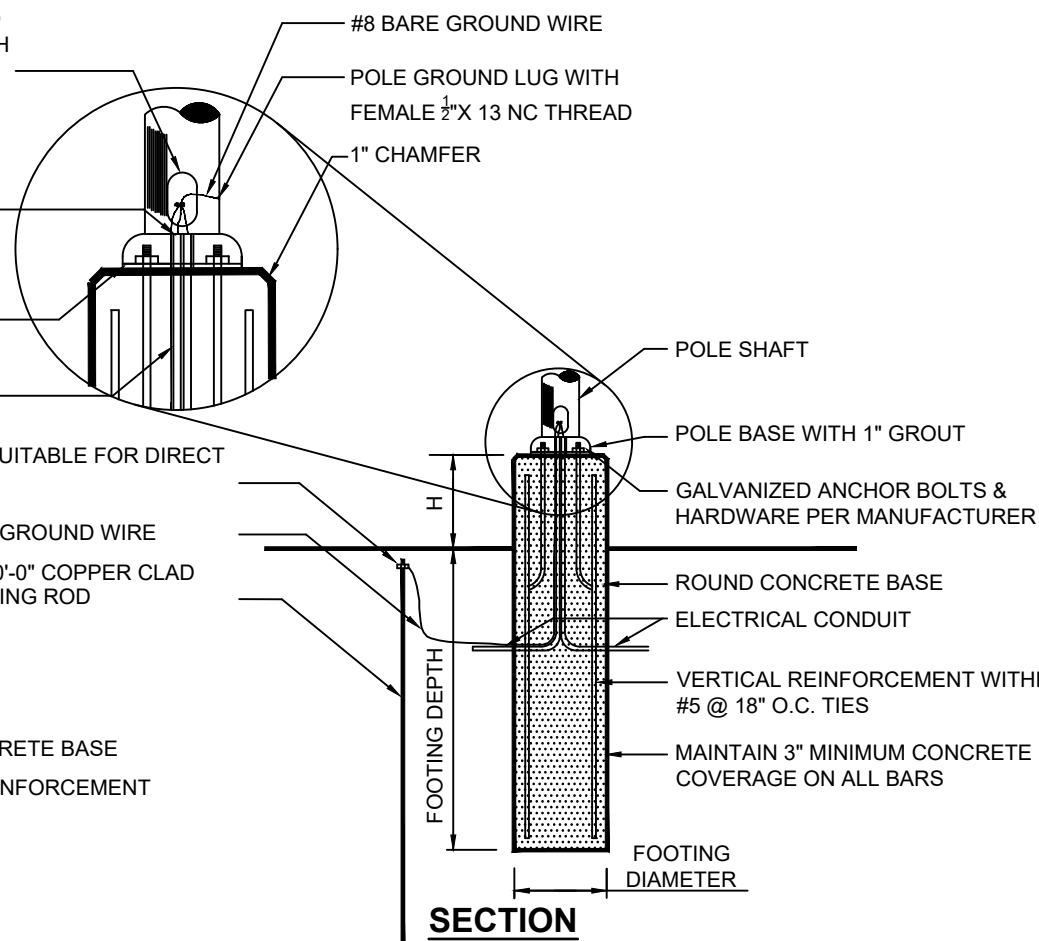
CONDUIT STUBS TO BE INSTALLED TO HEIGHT OF ANCHOR BOLTS

POLE BASE WITH LEVELING NUTS & 1" GROUT (MIN.)

ROUND CONCRETE BASE VERTICAL REINFORCEMENT

FOOTING DIAMETER

PLAN



MOUNTING HEIGHT	FOOTING DEPTH	FOOTING DIAMETER	VERTICAL REINFORCEMENT	1"	
				PAVEMENT	LAWN
22'	4'-6"	2'-0"	6 #5 BARS	2'-6"	6"

NOTES:

- POSTS TO BE EMBEDDED IN THE CONCRETE FOOTINGS PER THE MANUFACTURER'S RECOMMENDATIONS.
- EACH STANDARD TO BE PROTECTED AGAINST LIGHTNING WITH AN INTERCONNECTED GROUND ROD. THIS ROD SHALL BE BONDED PER SECTION NUMBER 250-86, N.E.C.
- CONTRACTOR TO ENSURE CONCRETE POLE BASES ARE POURED / PLACED ABSOLUTELY VERTICAL & LEVEL.
- POLE BASE SHALL BE ONE CONTINUOUS POUR. EXPOSED PORTION OF BASE SHALL BE HAND-RUBBED SMOOTH.
- CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS / GEOTECH REPORT.
- THE INFORMATION ILLUSTRATED IN THE LIGHT POLE FOUNDATION DETAIL HAS BEEN PROVIDED FOR GENERAL REFERENCE AND PRELIMINARY COST ESTIMATE PURPOSES. LIGHT POLE FOUNDATIONS SHOULD BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER BASED ON EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- POLES TO BE SQUARE TAPERED STEEL TO MATCH EXISTING POLES ON SITE. FINISH TO MATCH FIXTURE.

1 LIGHT POLE BASE
SCALE: NTS



D-Series Size 1
LED Area Luminaire

Specifications

EPA:	1.01 f ² (0.09m ²)
Length:	33" (0.84m)
Width:	13" (0.33m)
Height H1:	7-1/2" (0.19m)
Height H2:	3-1/2" (0.09m)
Weight (max):	27 lbs (12.2kg)

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAR2 PIRHN DBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P4 P7 P8 R2 P5 P8 P3 P6 P9	30K 3000K 40K 4000K 50K 5000K	T15 Type I short (Automated) T15 Type II short T2M Type I medium T15 Type II short T15 Type II medium T15 Type II short medium	T3S Type V short T3M Type I medium T3M Type I medium BLC Backlight corner** LED Left corner cast** R2D Right corner cast**	MVOLT* D774-480V** SRA RPA WPA SPINBA RPMBA SRA RPA WPA SPINBA RPMBA
	Rotated optics P10* P12* P11* P13**				Shipped separately KWA DDBDD

Control options	Other options	Finish
Shipped installed NLRQ2 No light A/E generation 2 enable** PRHN Network high-beam rotation ambient sensor** PER NEMA non-lock receptacle only (controls ordered separately)** PERS Five-pin receptacle only (controls ordered separately)** PER7 Seven-pin receptacle only (controls ordered separately)** DMG 0-10V dimming (uses pulse-width modulated dimmer with an external control, ordered separately)** DS Dual switching**	PIR High-flow, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 30" PRIR High-flow, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 36" PRHCYB High-flow, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 36" PRHCYCV Bi-beam, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 36" FAD Field adjustable output**	DDDBD Dark bronze DBDZD Black DAALD Natural aluminum DWDWD White DDBZD Textured dark bronze DDBLD Textured black DWBZD Textured natural aluminum DWBGD Textured white

LITHONIA LIGHTING logo and contact information: One Lithonia Way • Cary, Georgia 30712 • Phone: 1-800-755-SEV (7378) • www.lithonia.com

LITHONIA LIGHTING logo and contact information: Lithonia Lighting Outdoor • One Lithonia Way • Cary, Georgia 30712 • Phone: 1-800-755-SEV (7378) • www.lithonia.com

2 LIGHT FIXTURE TYPES 'A' THROUGH 'F'
SCALE: NTS

LITHONIA LIGHTING logo and product details for Anchor Base Poles. Features include: SSS SQUARE STRAIGHT STEEL, 4" and 6" diameters, 15' and 20' heights, and various finish options. Includes technical specifications and ordering information.

3 LIGHT POLE TYPES 'A' THROUGH 'C'
SCALE: NTS

4 BUILDING-MOUNTED FIXTURE BRACKET ASSEMBLY
SCALE: NTS

LIGHTING NOTES

GENERAL

- POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS. NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE PLANS.
- LIGHT LEVEL POINT SPACING IS 20 FT. LEFT TO RIGHT AND 20 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.
- ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
- LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.
- CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
- REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

COMPLIANCE

- CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
- REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

POLES AND FOOTINGS

- PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
- CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERCISED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.
- POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.

WALL MOUNTED FIXTURES

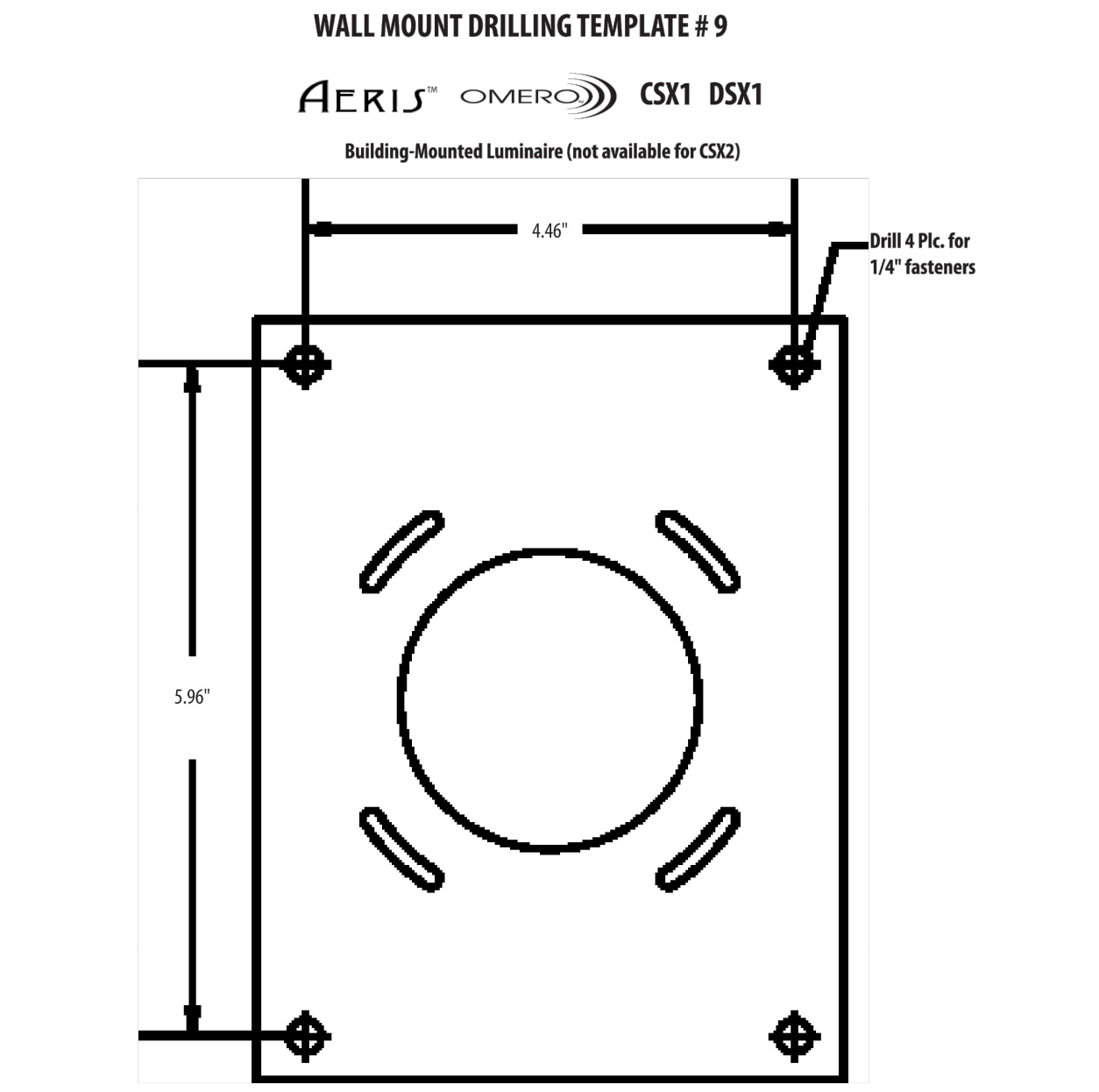
- CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
- INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

ADJUSTMENT AND INSPECTION

- CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

REQUIREMENTS FOR ALTERNATES

- ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:
 - ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR
 - COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE.
 - A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.
 - POLE MANUFACTURER ASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.
 - A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.



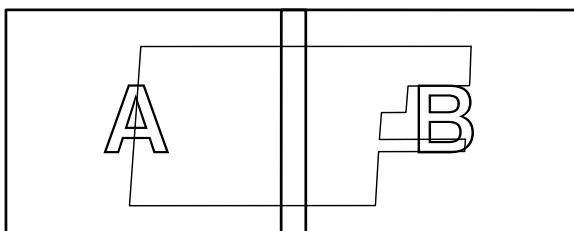
NOTE: This drawing is NOT to scale and should be used for dimension purposes only.

LITHONIA LIGHTING logo and contact information: Lithonia Lighting Outdoor • One Lithonia Way • Cary, Georgia 30712 • Phone: 1-800-755-SEV (7378) • www.lithonia.com

REV. / ISSUE	DATE	DESCRIPTION
1	5/19/2022	REV 1: UPDATED PER SCD COMMENTS
2	6/7/2022	REV 2: REV FOR DEP APPLICATION
3	7/22/2022	REV 3: REV PER TWP. COMMENTS
4	9/27/2022	REV PER TWP. COMMENTS
5	02/08/2023	REV. PER TWP COMMENTS

CONSULTANT

ORIENTATION / KEY PLAN



CLIENT

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MIAMI, FLORIDA 33160

PS&S PAULUS, SOKOLOWSKI AND SARTOR, LLC.

3 MOUNTAINVIEW ROAD
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 560-9700

CERTIFICATE OF AUTHORIZATION NO. 24GA29032700

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CRAIG HERMANN, P.E.
PROFESSIONAL ENGINEER
N.J. LIC. NO. 45107

02/08/2023
SIGNATURE DATE

PROJECT

PROPOSED WAREHOUSE
COMPLEX
BUILDINGS A & B

BLOCK 88.02, LOT 13.01
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE

LIGHTING
NOTES AND DETAILS

PROJECT NO.: 04596-0014 DRAWN BY: CY/JMS
SCALE: AS SHOWN CHECKED BY: CH
DATE: 4/8/2022 SHEET 27 OF 29
SHEET NO.