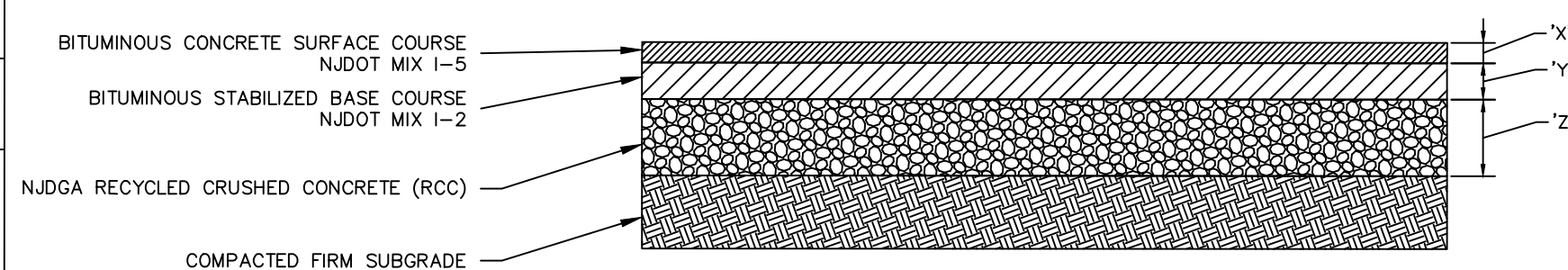


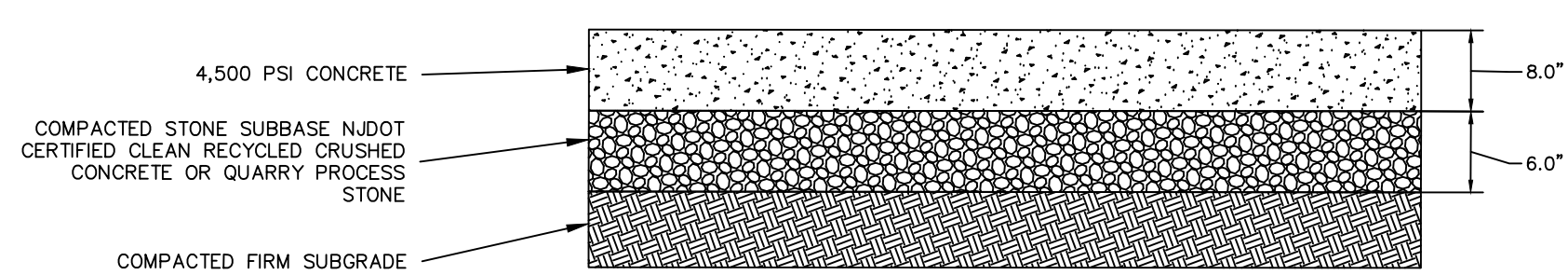
SIDEWALK AT CURB

ASPHALT SECTION	SURFACE COURSE - 'X'	BASE COURSE - 'Y'	SUBBASE - 'Z'
STANDARD DUTY	1.5 INCHES	2.5 INCHES	6 INCHES
HEAVY DUTY	2 INCHES	4 INCHES	6 INCHES



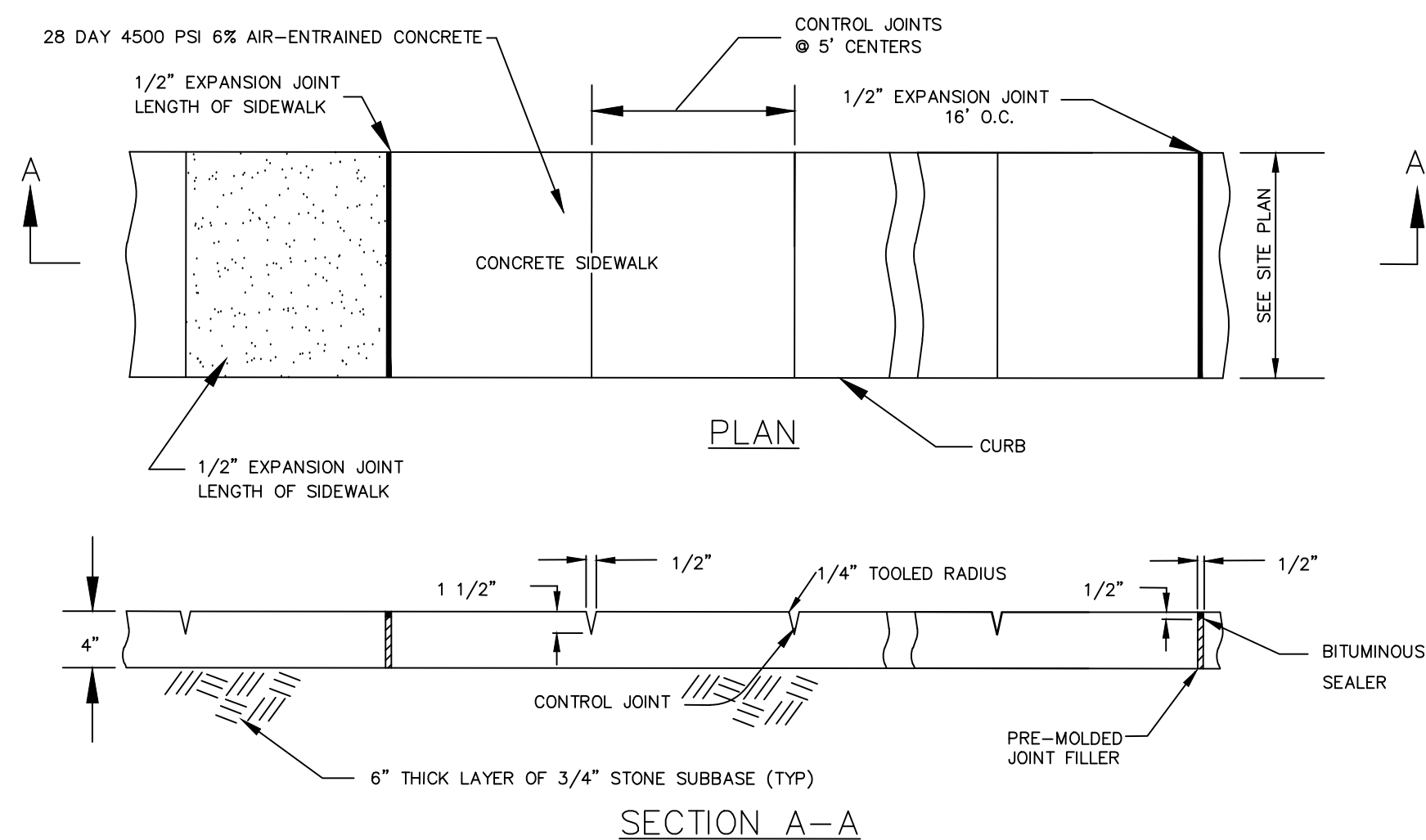
- NOTES:
- PRIOR TO ANY PAVING ACTIVITIES, THE SUBGRADE OR SUBBASE SHALL BE PROOF ROLLED.
 - PAVING BASECOURSE SHALL BE CONSTRUCTED IN LAYERS NOT LESS THAN 2 INCHES AND NOT MORE THAN 5 INCHES THICK PER LIFT. ALL AREAS TO BE PAVED SHALL BE PRODDROLLED WITH AT LEAST 4 PASSES OF EITHER A SMOOTH ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 5-TONS OR A FULLY LOADED TANDEM DUMP TRUCK. ANY SOFT AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR, FREE-DRAINING SOIL. FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 12-INCHES AND SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
 - TRANSVERSE AND LONGITUDINAL CONTROL JOINTS SHALL BE SAW CUT AT 15 FT MAXIMUM SPACING.

ASPHALT PAVEMENT SECTION



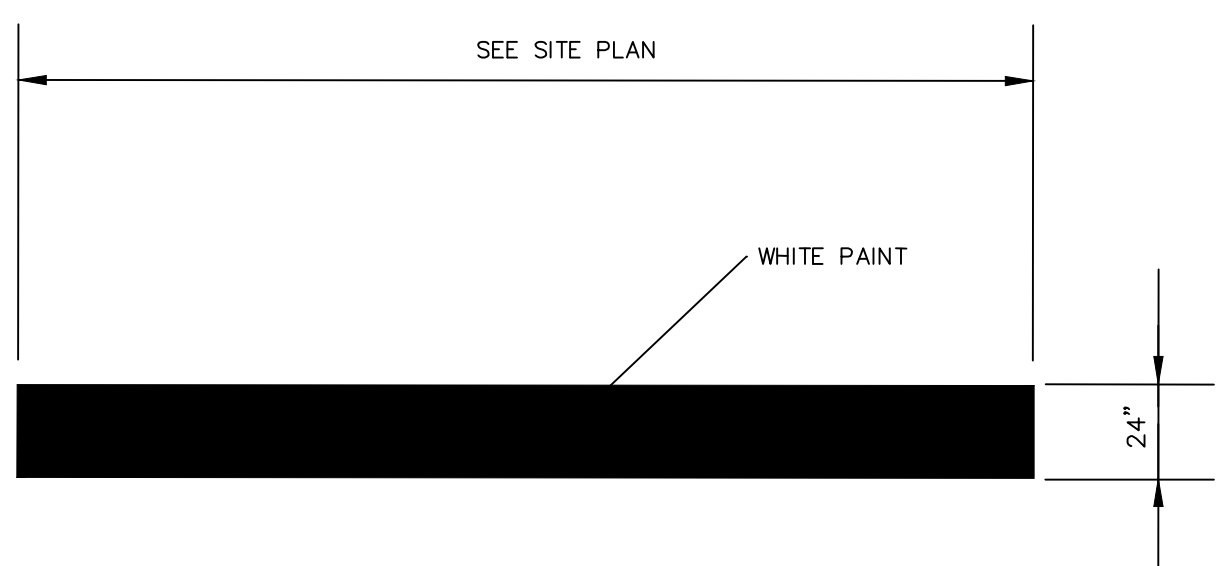
- NOTES:
- PRIOR TO ANY PAVING ACTIVITIES, THE SUBGRADE OR SUBBASE SHALL BE PROOF ROLLED.
 - PRIOR TO INSTALLATION OF PAVEMENT, THE SUBGRADE SHOULD BE SURFACE COMPACTED WITH A MINIMUM OF 6 PASSES WITH A VIBRATORY ROLLER HAVING A MINIMUM STATIC WEIGHT OF 5-TONS.
 - ALL AREAS TO BE PAVED SHALL BE PRODDROLLED WITH AT LEAST 4 PASSES OF EITHER A SMOOTH ROLLER HAVING A MINIMUM STATIC DRUM WEIGHT OF 5-TONS OR A FULLY LOADED TANDEM DUMP TRUCK.
 - ANY SOFT AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR, FREE-DRAINING SOIL.
 - FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 12-INCHES AND SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
 - TRANSVERSE AND LONGITUDINAL CONTROL JOINTS SHALL BE SAW CUT AT 15 FT MAXIMUM SPACING.
 - DOMEL BARS SHALL BE PLACED AT ALL JOINTS.

CONCRETE PAVEMENT SECTION - LOADING AREAS



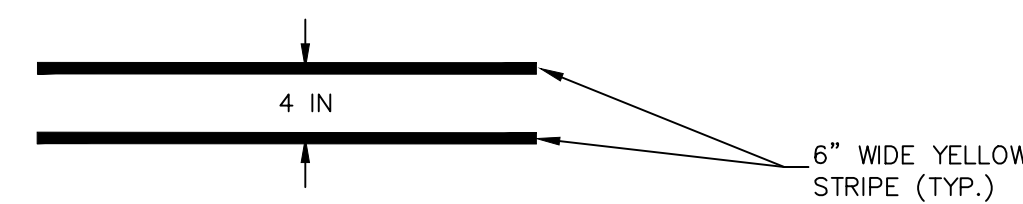
- NOTES:
- ALL SIDEWALKS SHALL BE FLOATED, TOOLED, AND MEDIUM-BROOM BRUSHED.
 - SIDEWALKS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE.
 - SIDEWALK TO BE REINFORCED WITH 6x6 W/F.

CONCRETE SIDEWALK DETAIL



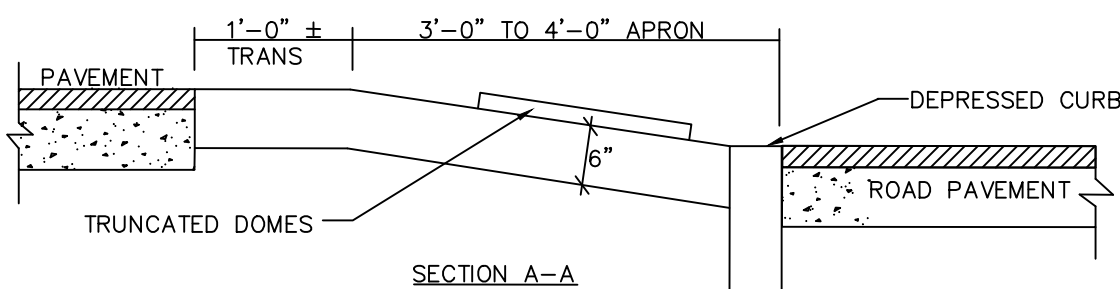
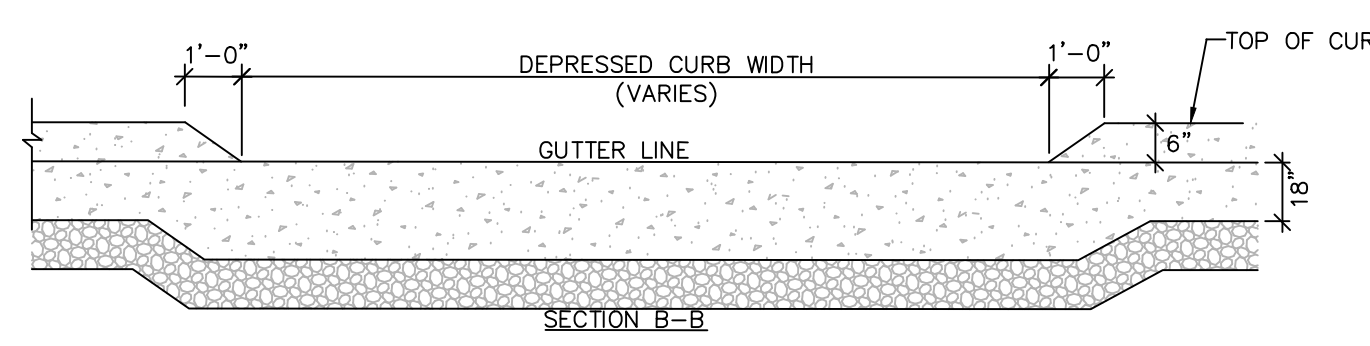
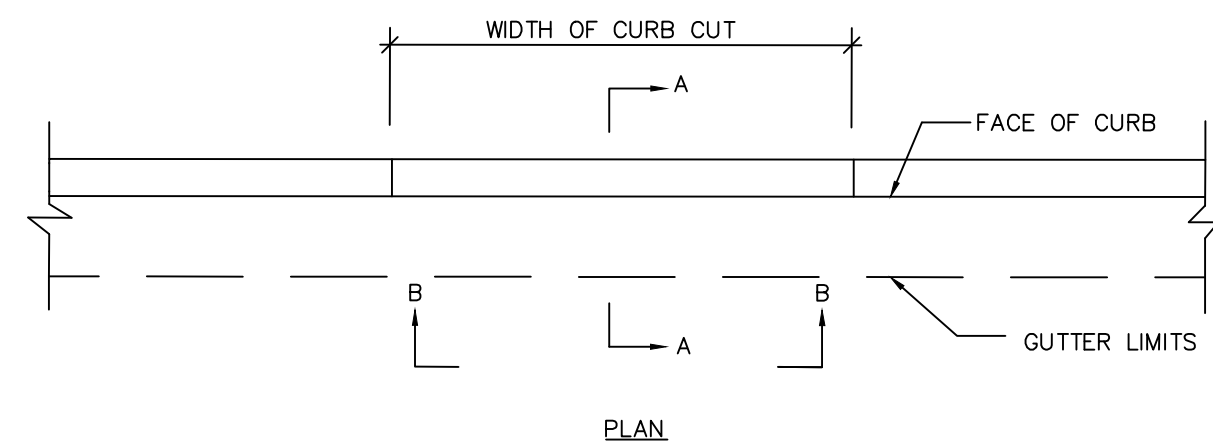
1. ALL SIGNS AND PAVEMENT STRIPING SHALL BE IN COMPLIANCE WITH THE CURRENT MUTCD.
2. STRIPING SHALL BE LONG LIFE, EPOXY RESIN.

STOP BAR



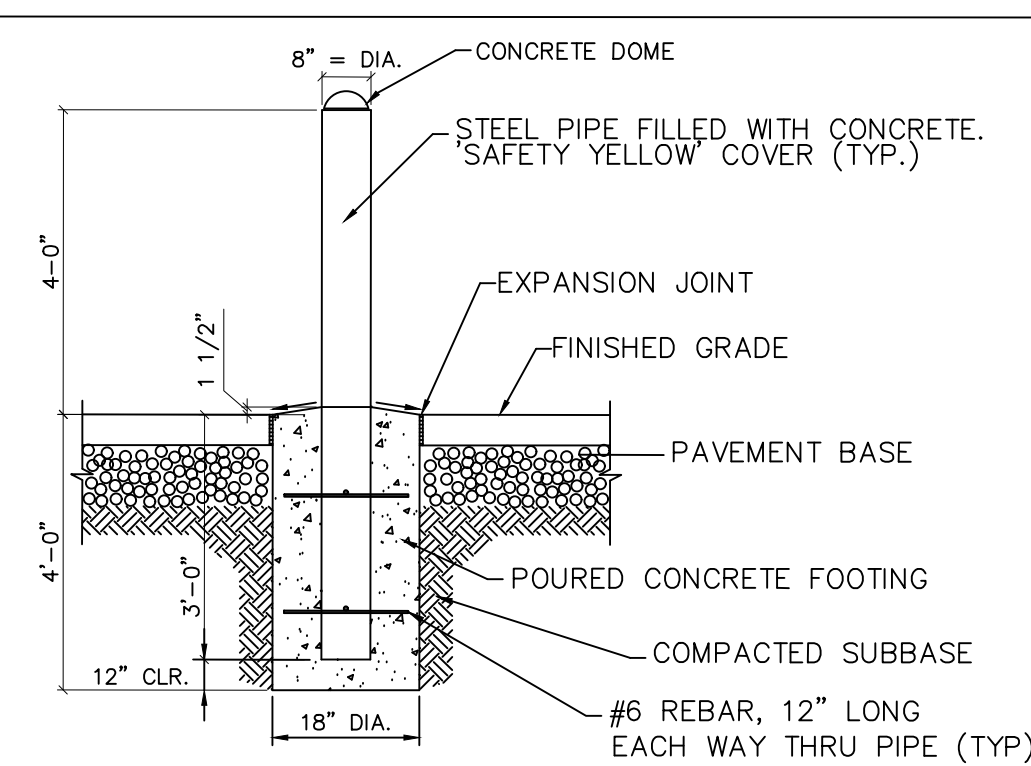
1. ALL SIGNS AND PAVEMENT STRIPING SHALL BE IN COMPLIANCE WITH THE CURRENT MUTCD.
2. STRIPING SHALL BE LONG LIFE, EPOXY RESIN.

DOUBLE-YELLOW CENTERLINE



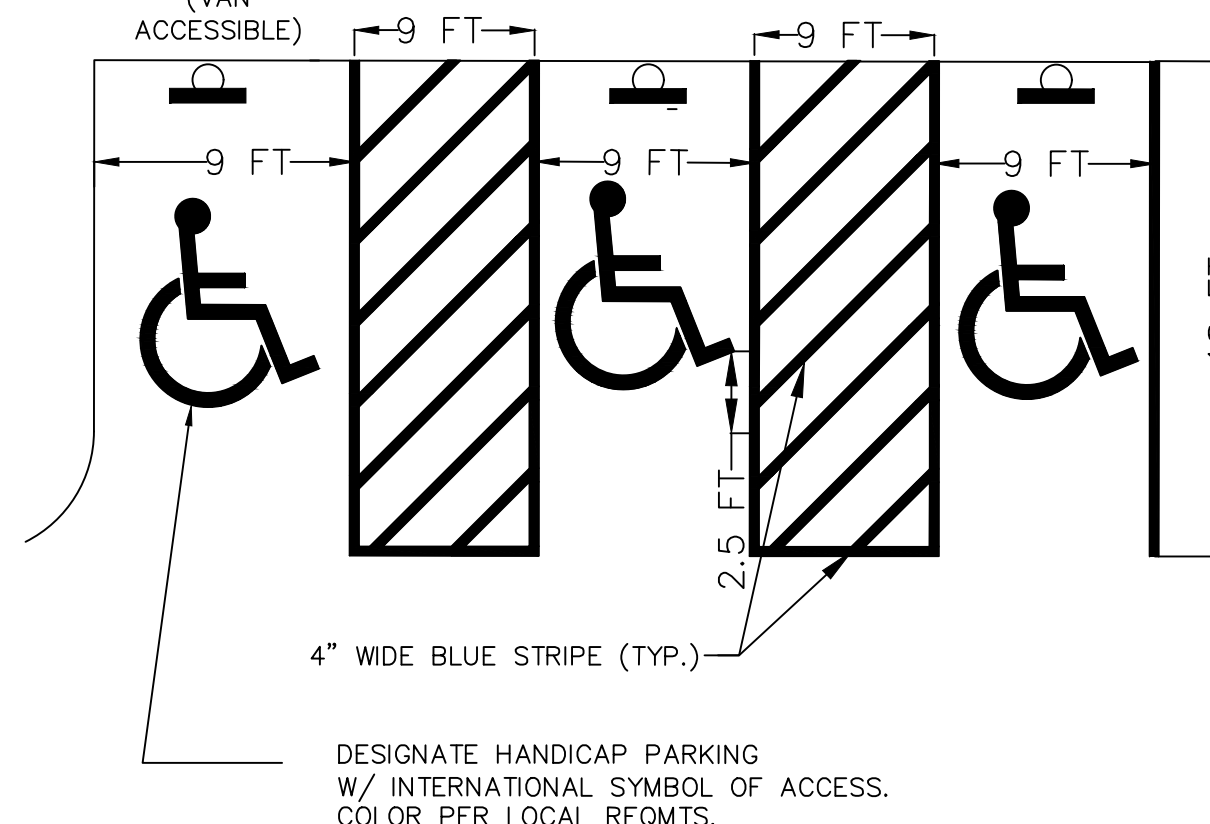
- NOTE:
SIDEWALK 4" THICK THROUGHOUT.

DEPRESSED CURB

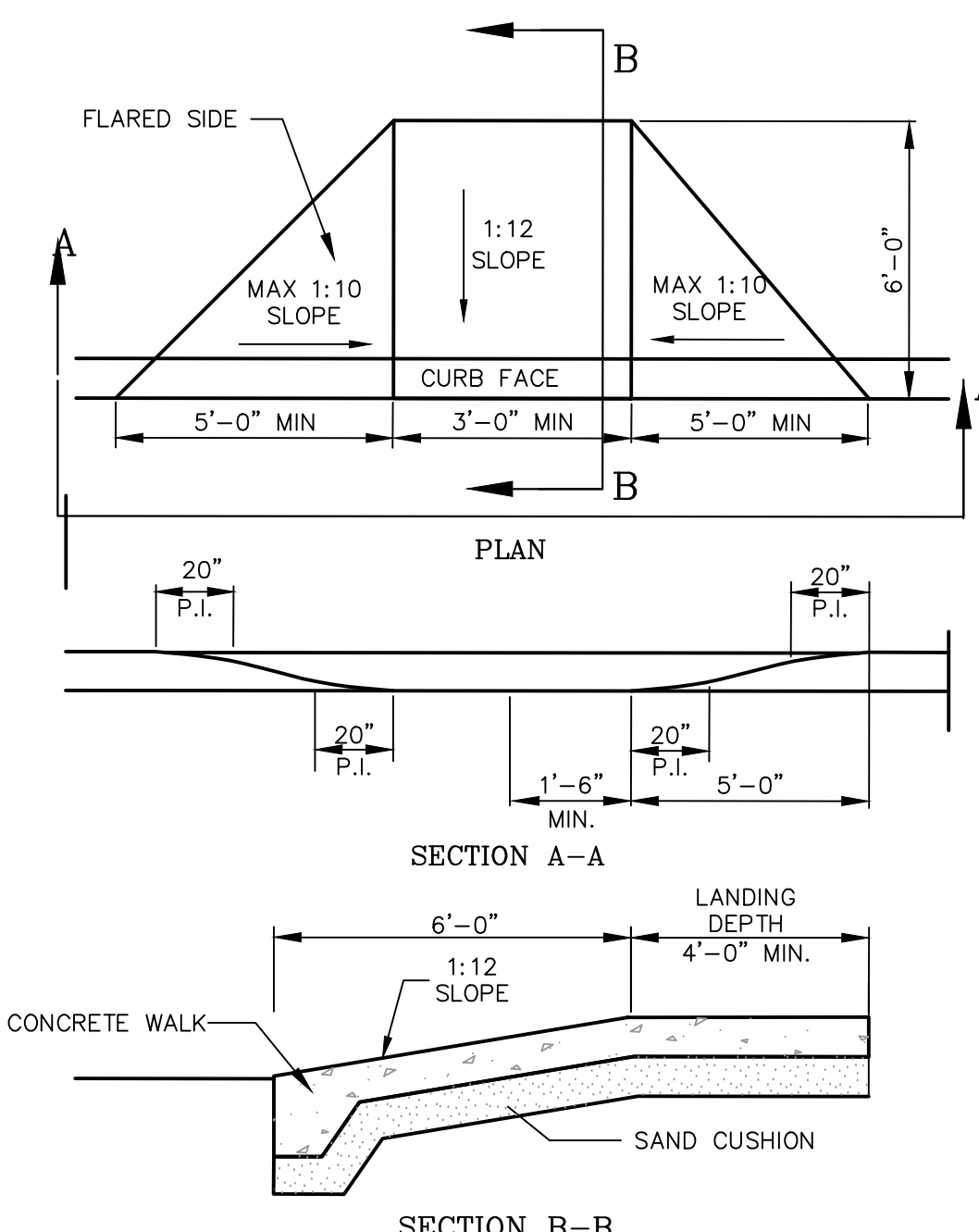


STEEL BOLLARD

- NOTES:
- ALL SIGNS AND PAVEMENT STRIPING SHALL BE IN COMPLIANCE WITH THE CURRENT MUTCD.
 - STRIPING SHALL BE LONG LIFE, EPOXY RESIN.
 - SEE HAIRPIN STRIPING DETAIL.

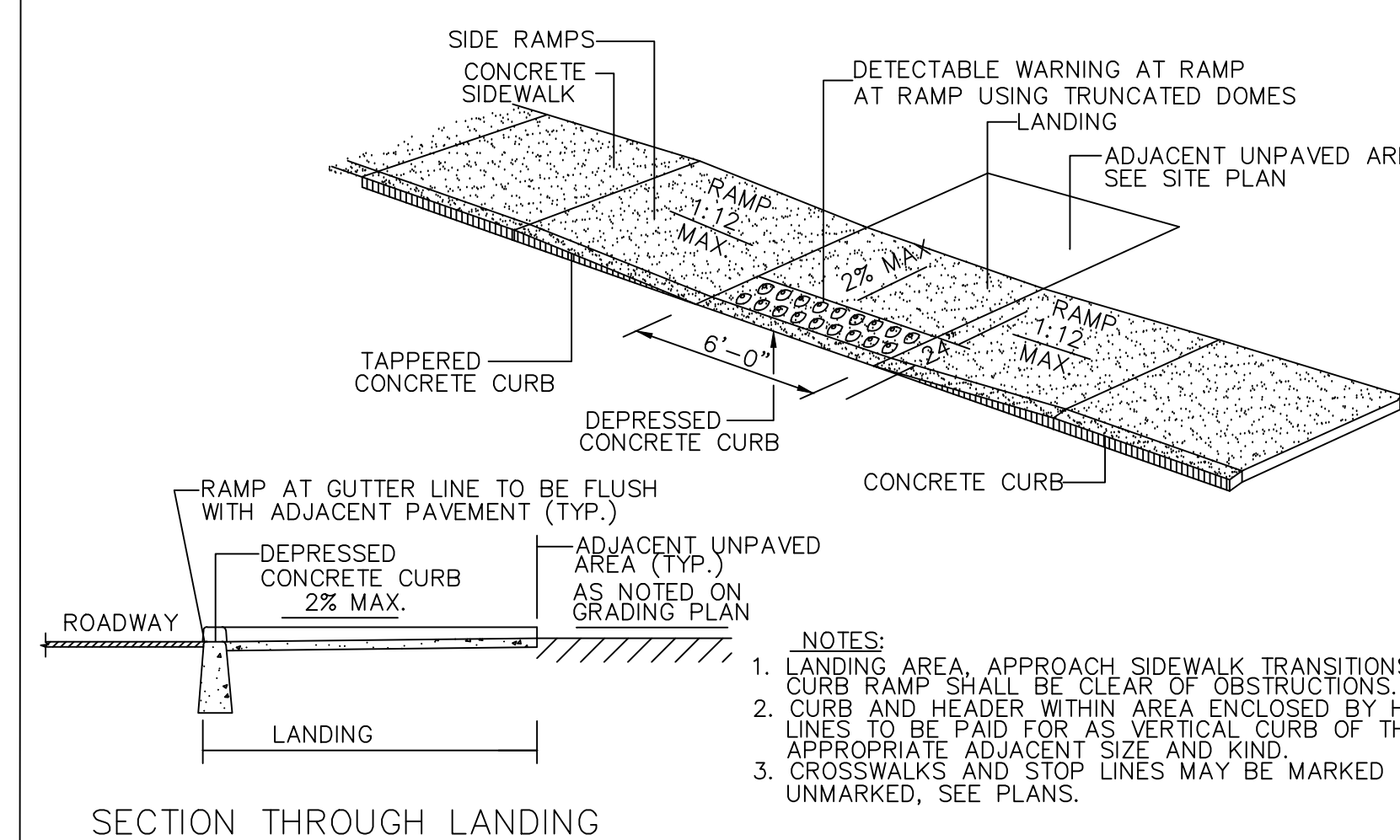


ACCESSIBLE PARKING STALL



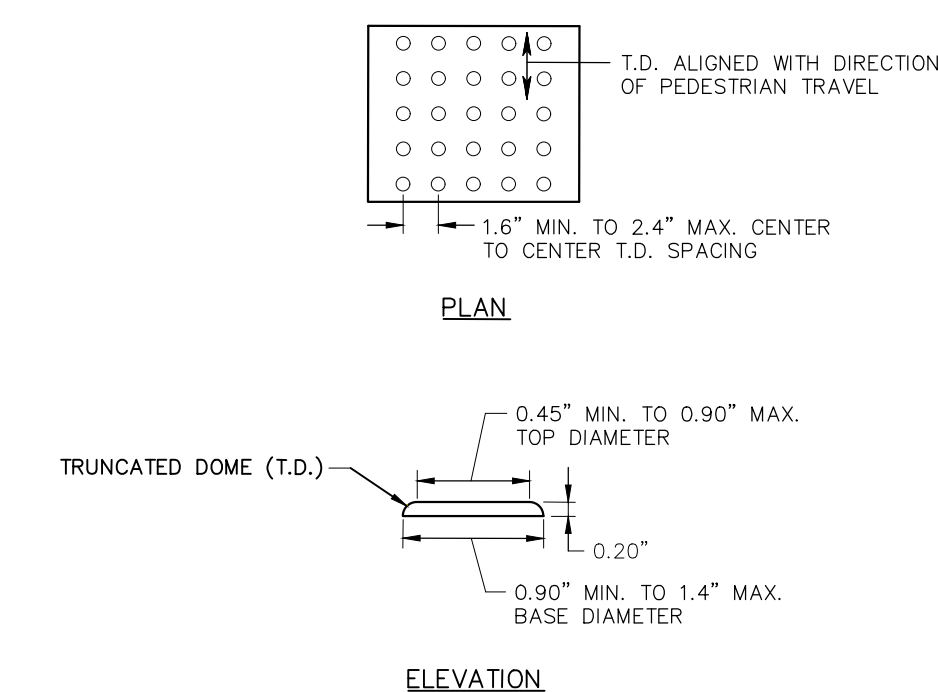
- NOTES:
- CONTRACTOR SHALL REFER TO ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG) TO ENSURE THAT DETAILS ARE CURRENT AT THE TIME OF CONSTRUCTION, AND SHALL NOTIFY ENGINEER IF DISCREPANCIES ARE FOUND.
 - CONTRACTOR SHALL VERIFY IF ADDITIONAL REQUIREMENTS OR ACCESSIBILITY REGULATIONS ARE USED BY THE LOCAL MUNICIPALITY BUILDING DEPARTMENT OR CONSTRUCTION DEPARTMENT. IF THOSE REGULATIONS DIFFER FROM ADA, CONTRACTOR SHALL NOTIFY DESIGN ENGINEER PRIOR TO CONSTRUCTION.
 - IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES.
 - IF THE LANDING DEPTH AT THE TOP OF THE CURB RAMP IS LESS THAN 48 INCHES, THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12. THE WIDTH OF THE FLARED SIDE SHALL BE EXTENDED AS NECESSARY TO REACH THE DESIRED CURB REVEAL HEIGHT.
 - ALL RAMP TO HAVE A SLIP RESISTANT SURFACE (SEE ADA DETECTABLE WARNING SURFACE DETAIL). A DETECTABLE WARNING MUST COMPLY WITH ADA. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.
 - ALL RAMP SHALL HAVE A BROOM FINISH IN ACCORDANCE WITH ADA REQUIREMENTS.
 - TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.

ADA CURB RAMP



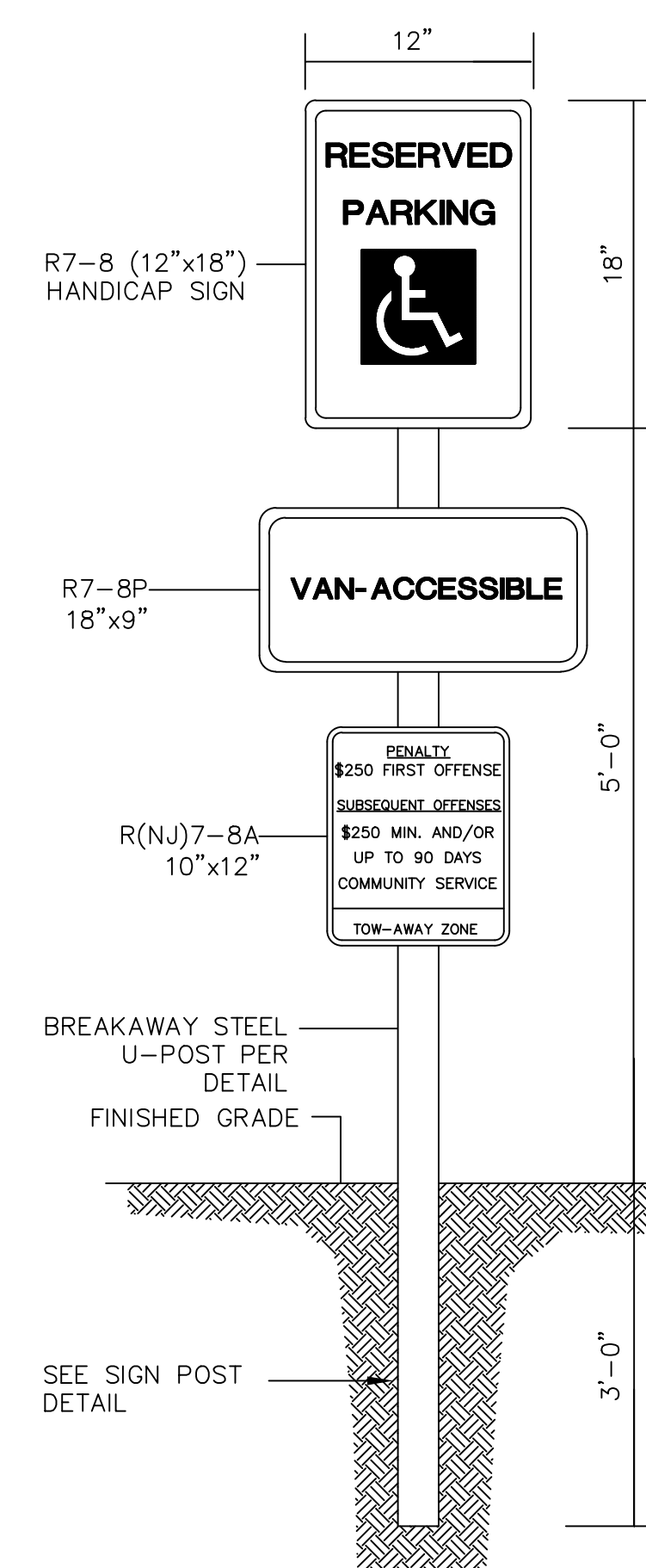
SECTION THROUGH LANDING

STRAIGHT ADA CURB RAMP



- NOTES:
- DETECTABLE WARNING SURFACE (DWS) SHALL EXTEND FULL WIDTH OF CURB RAMP (EXCLUSIVE OF FLARES) OR FULL WIDTH OF LANDING/TURNING SPACE.
 - DWS SHALL EXTEND 2 FEET MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL.
 - TYPICALLY, DWS SHALL BE PLACED ADJACENT TO BACK OF CURB.

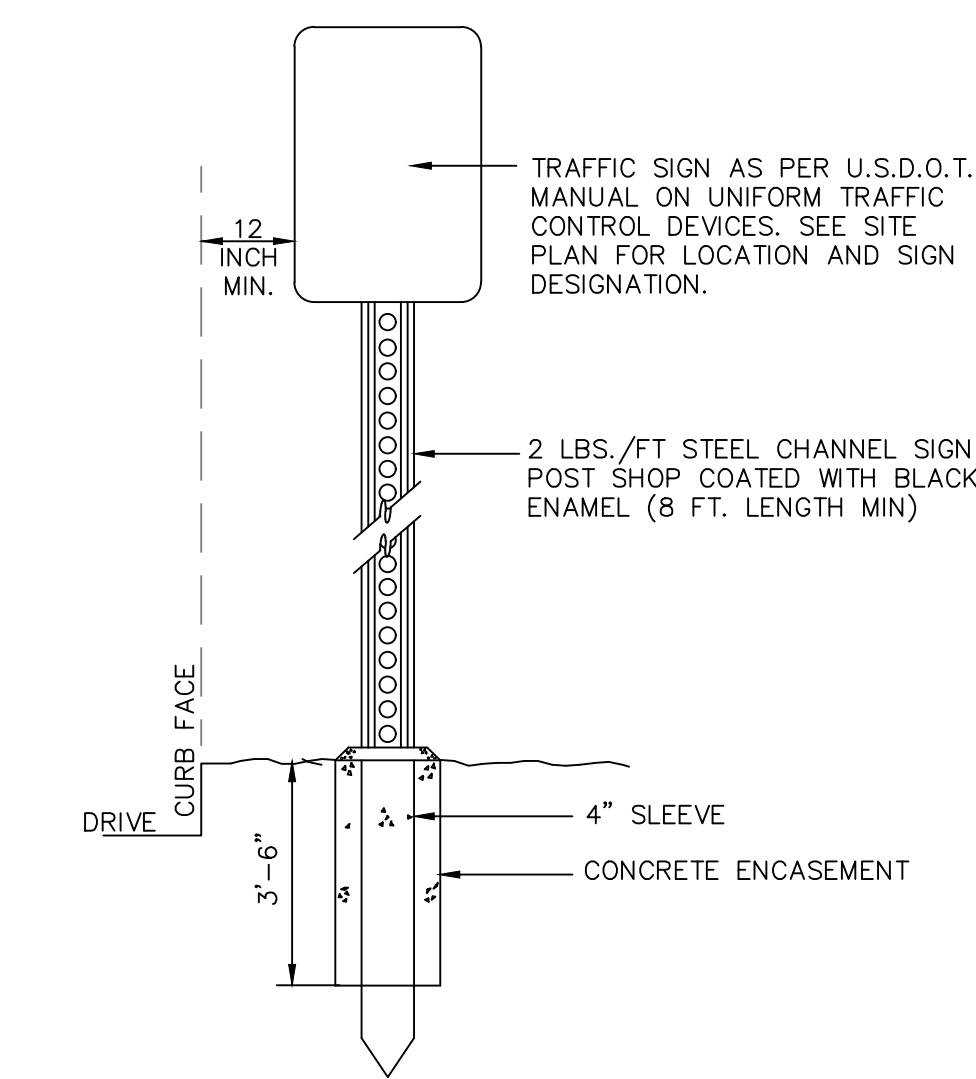
DETECTABLE WARNING SURFACE



ACCESSIBLE PARKING SIGN

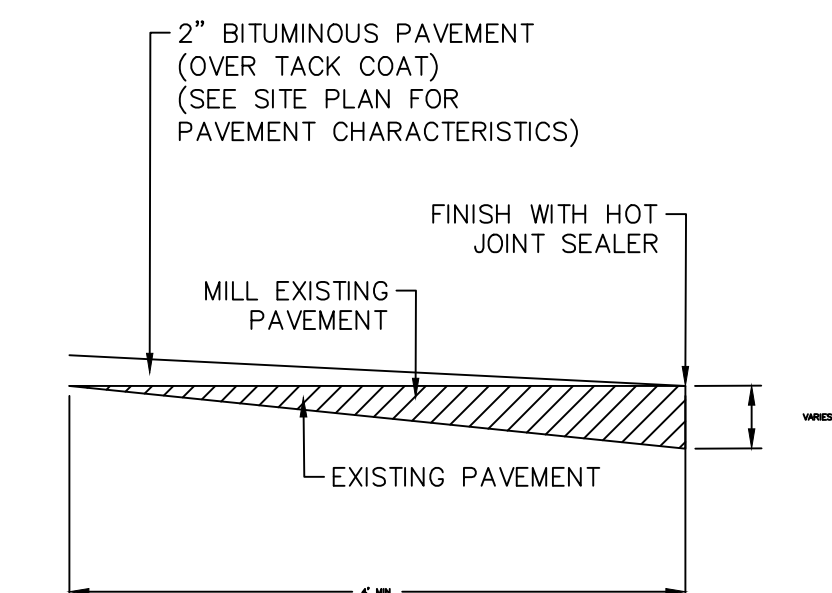
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DETAILS TO THE OWNER'S ENGINEER FOR REVIEW.

CONTRACTOR SUBMITTAL NOTE

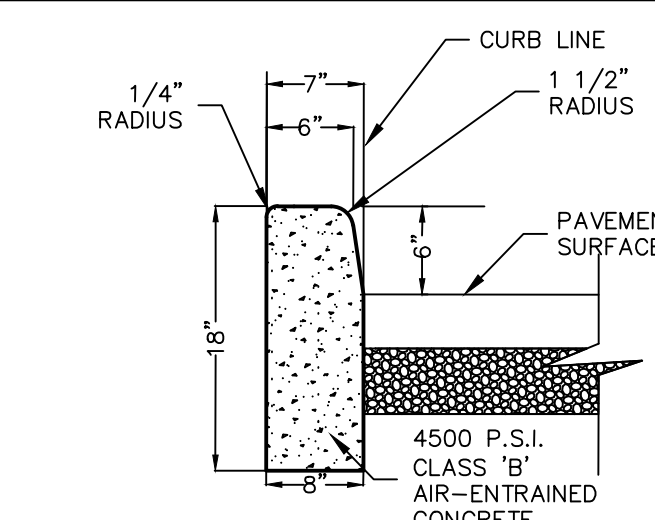


- GENERAL NOTES:
- ALL SIGNS SHALL BE ERECTED WITH THE BOTTOM OF THE SIGN NOT LESS THAN 7 FEET ABOVE THE PAVEMENT OR GROUND.
 - ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
 - ALL TRAFFIC CONTROL DEVICES SHALL CONFORM WITH THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SIGN

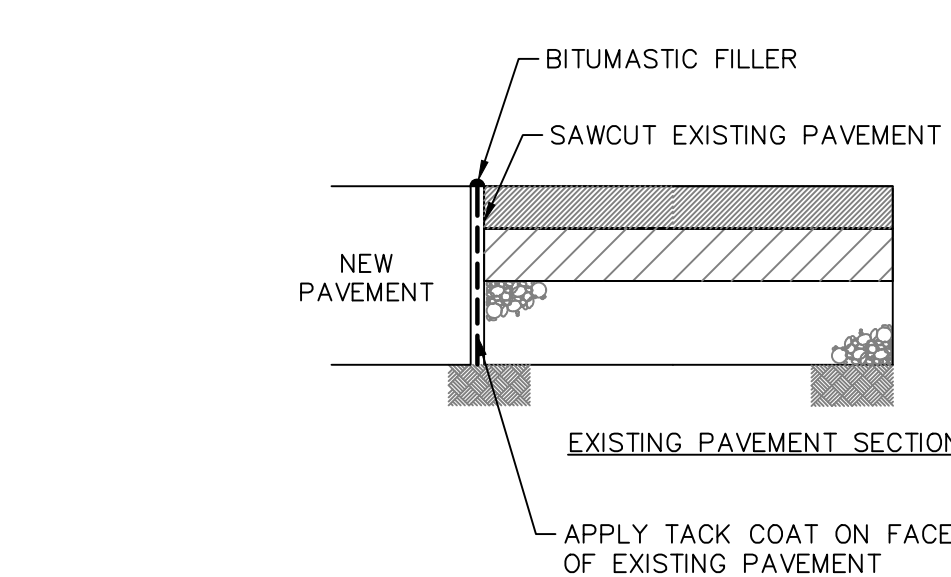


ASPHALT SPICE DETAIL



- NOTES:
- CONCRETE SHALL BE 28 DAY 4,500 PSI CLASS 'B' AIR-ENTRAINED CONCRETE.
 - TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB AT 20 FOOT INTERVALS AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER.
 - ALL CURBS SHALL BE INSTALLED ON AN APPROVED, COMPACTED SUBGRADE. WHERE DIRECTED BY THE TOWNSHIP ENGINEER, A MINIMUM OF FOUR INCHES OF NDOT TYPE 1-5 QUARRY PROCESS STONE SHALL BE INSTALLED AS THE SUBBASE.

6-INCH CONCRETE CURB



SAWCUT DETAIL

Date	Description	No.
2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions	1

REVISIONS

Chris Roche
SIGNATURE CHRISTIAN ROCHE 11/12/2021
PROFESSIONAL ENGINEER NJ Lic. No. 240E04928100

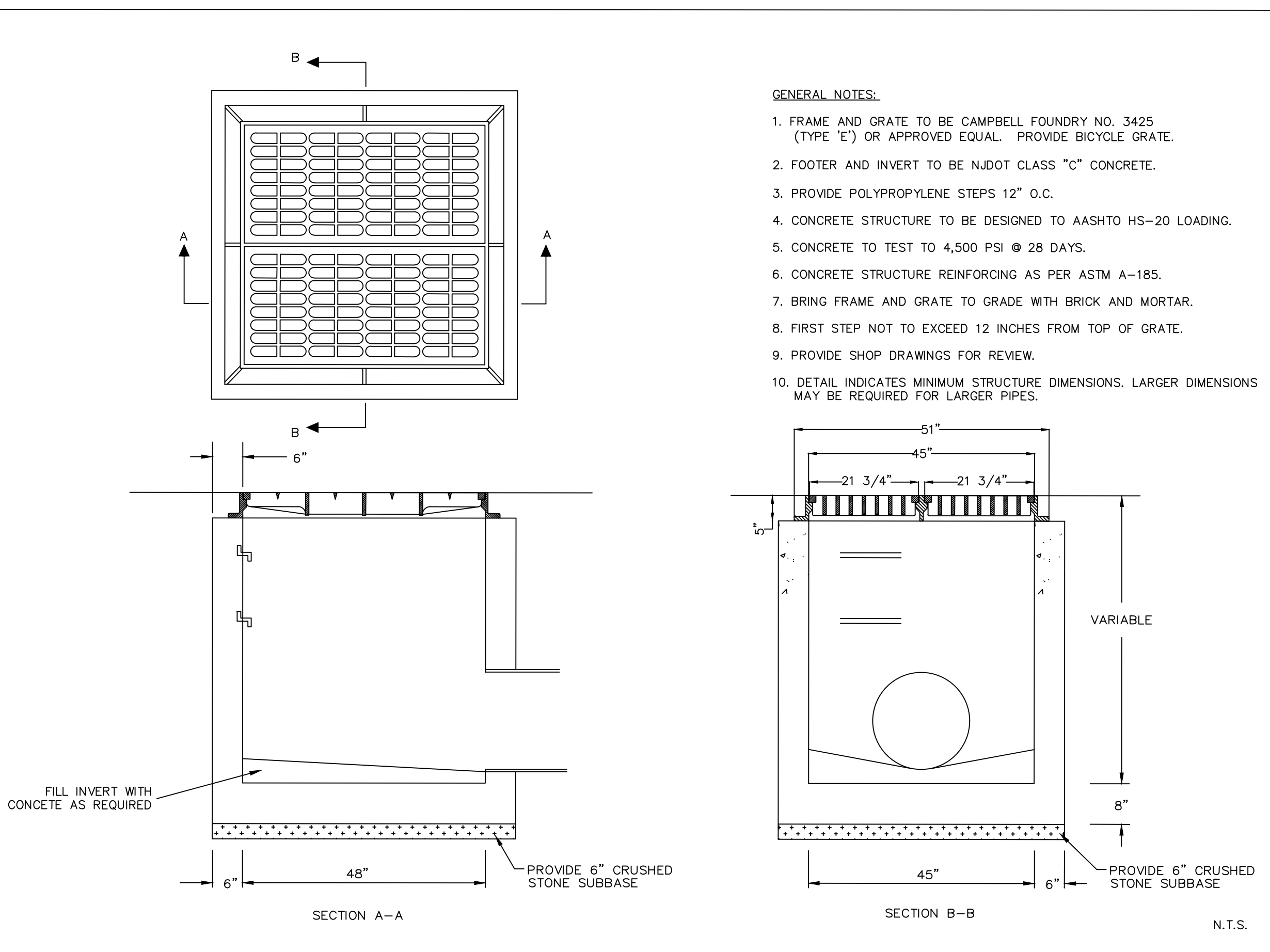
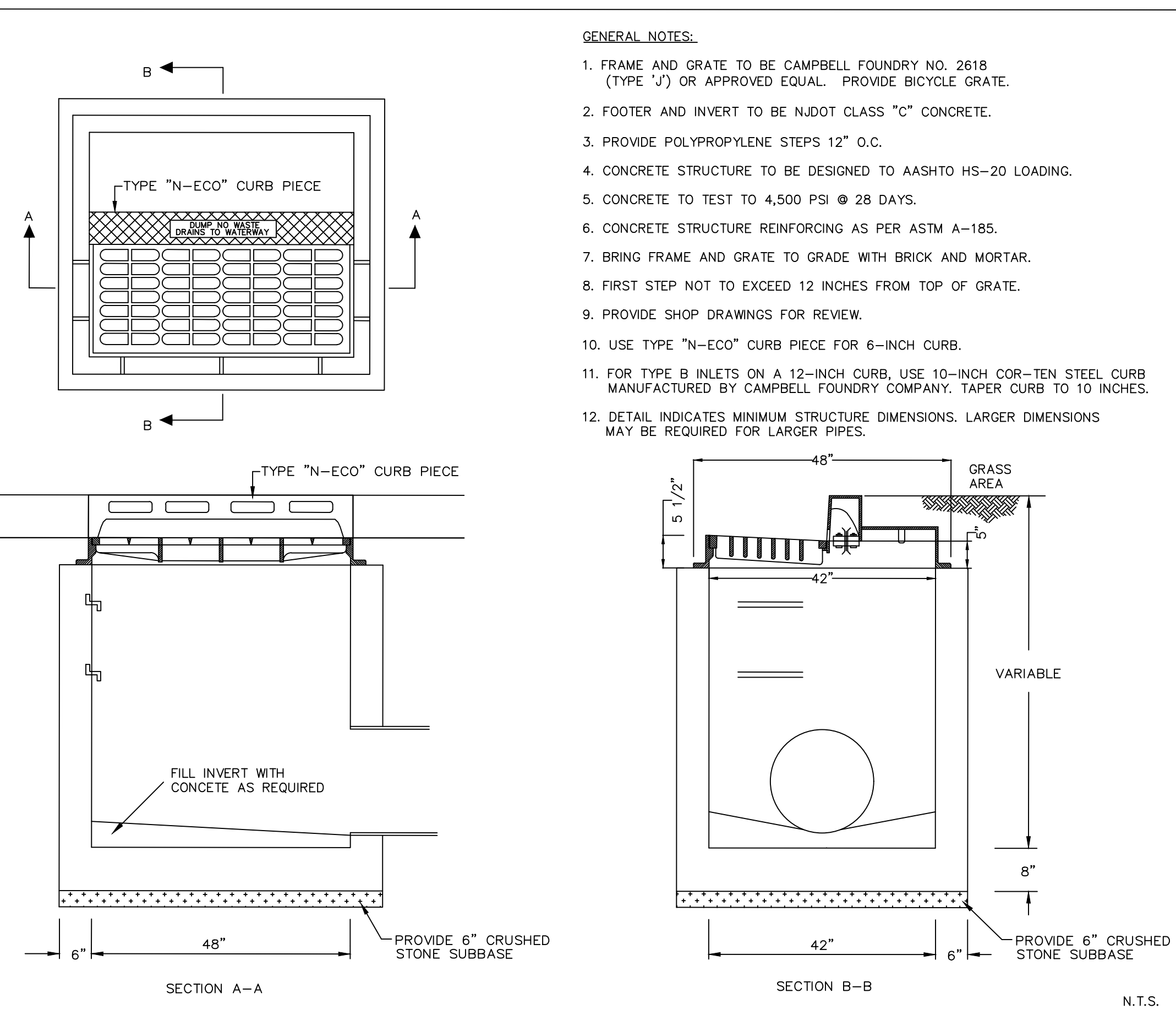
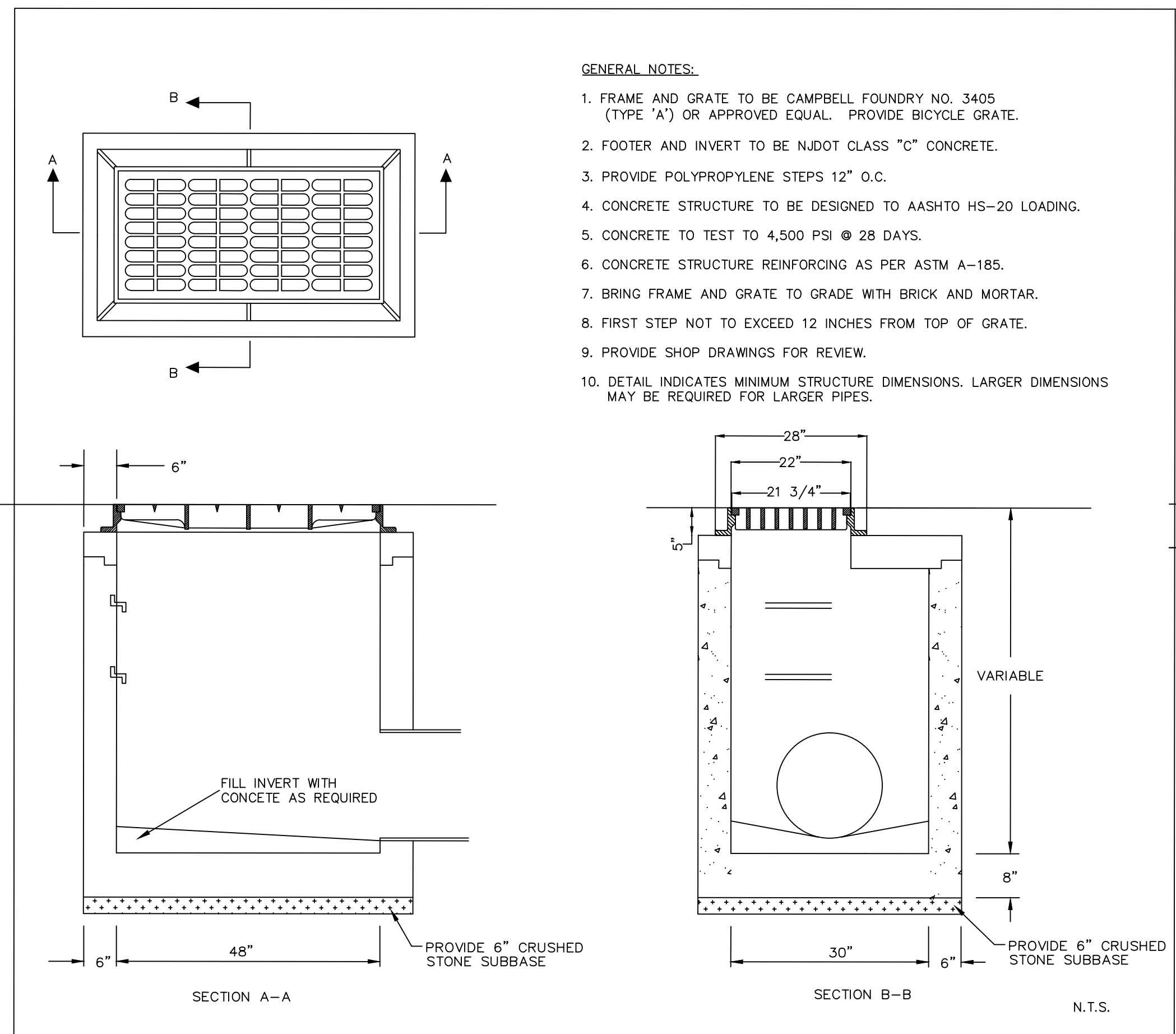
LANGAN
Langan Engineering and Environmental Services, Inc.
989 Lenox Drive, Suite 124
Lawrenceville, NJ 08648

T: 609.282.8000 F: 609.282.8001 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 240E04928100

Project
BRIDGE POINT 8 INDUSTRIAL PARK
WEST WINDSOR TOWNSHIP
MERCER COUNTY NEW JERSEY

Drawing Title
SITE DETAILS

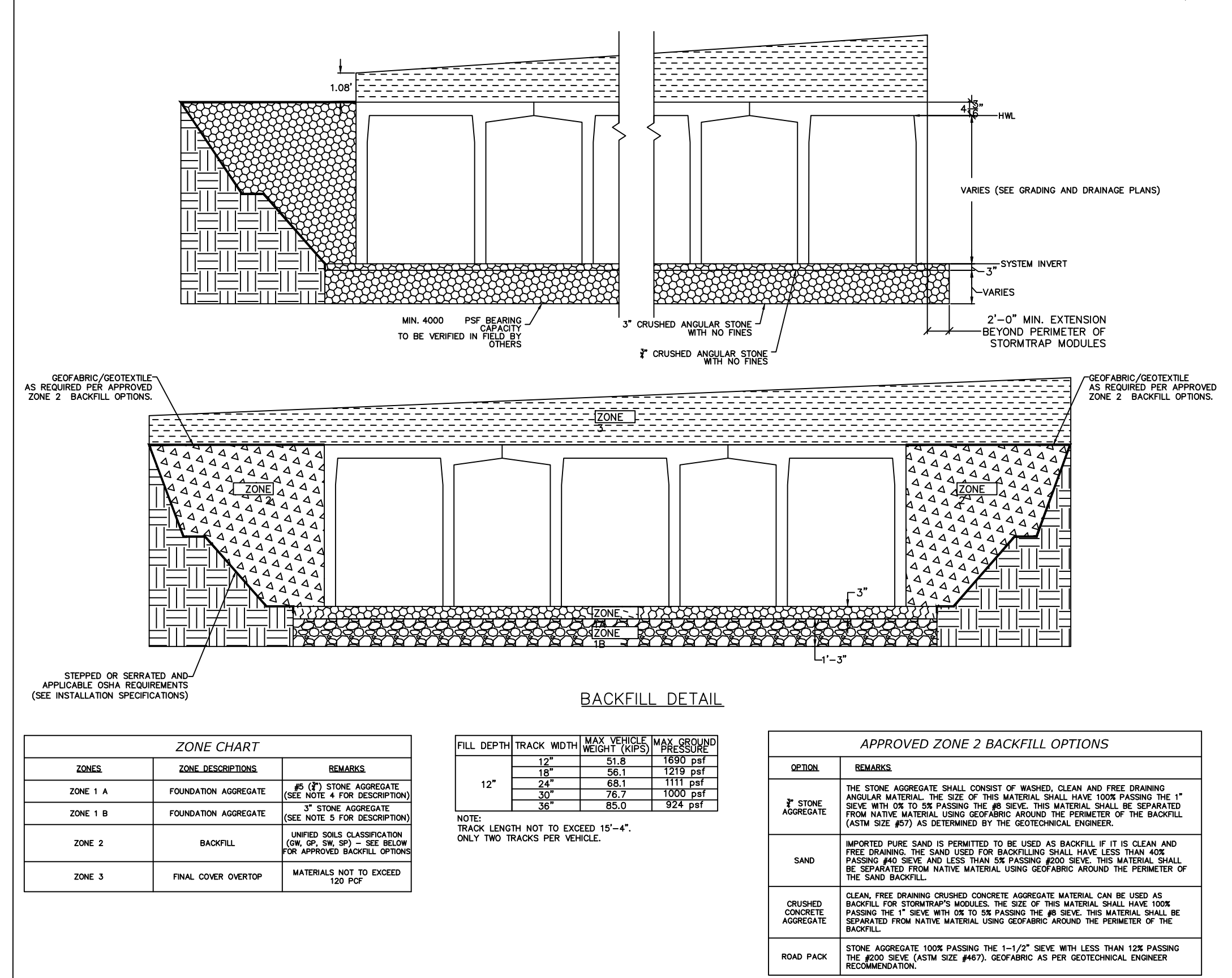
Project No.	Drawing No.
130172801	CS501
Date 12/03/2021	
Drawn By	
Checked By	



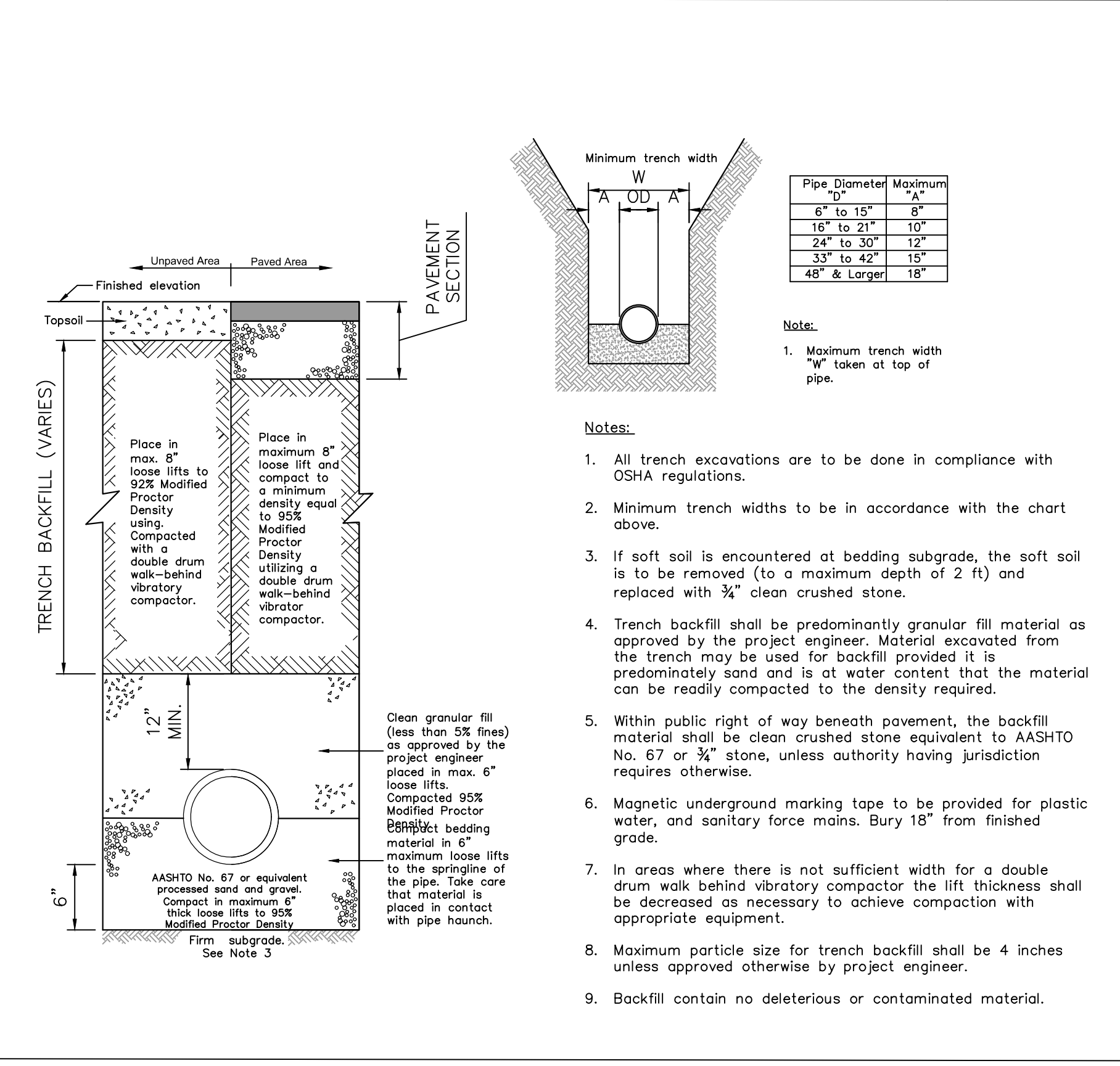
CATCH BASIN TYPE 'A'

CATCH BASIN TYPE 'B'

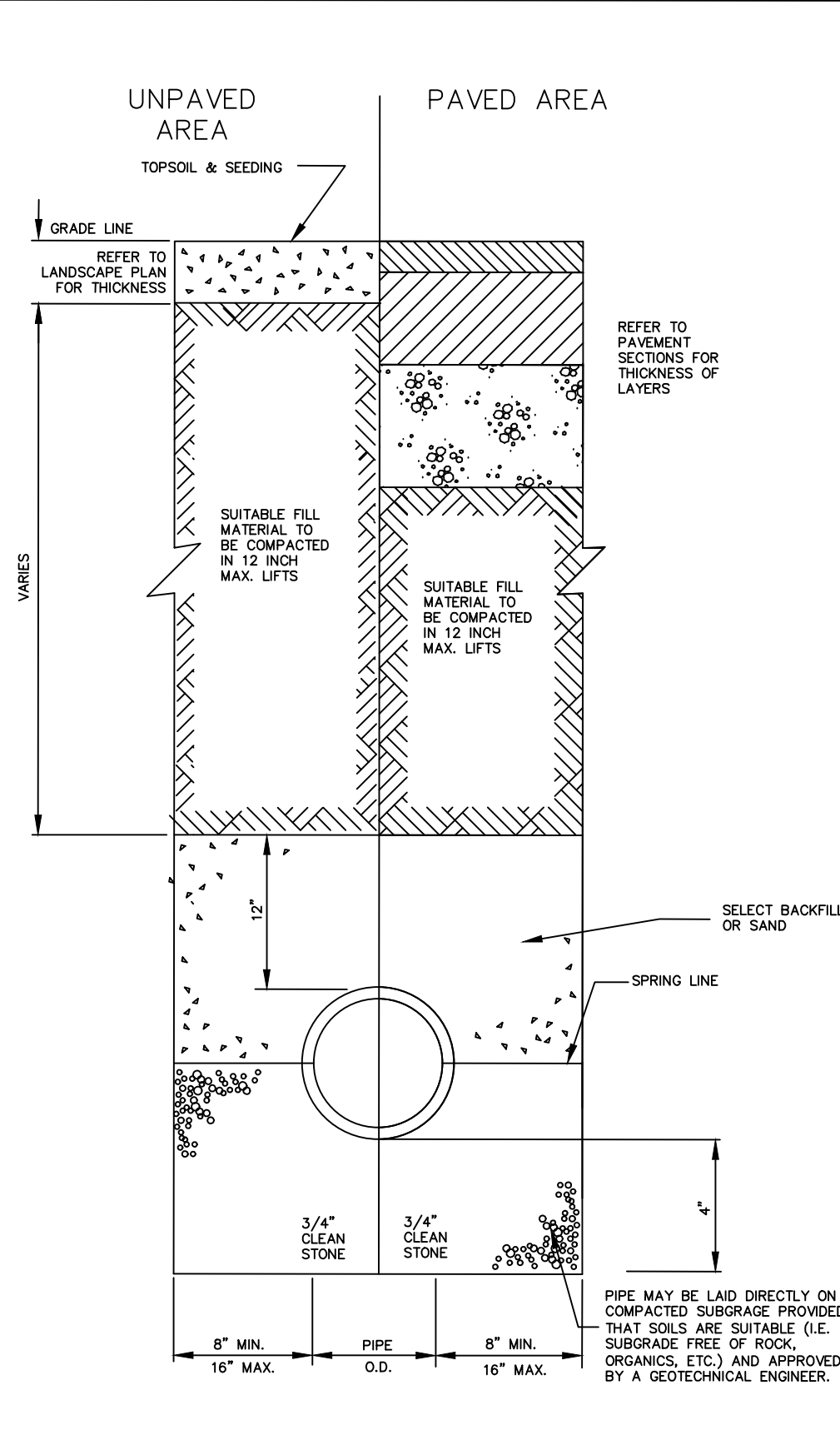
CATCH BASIN TYPE 'E'



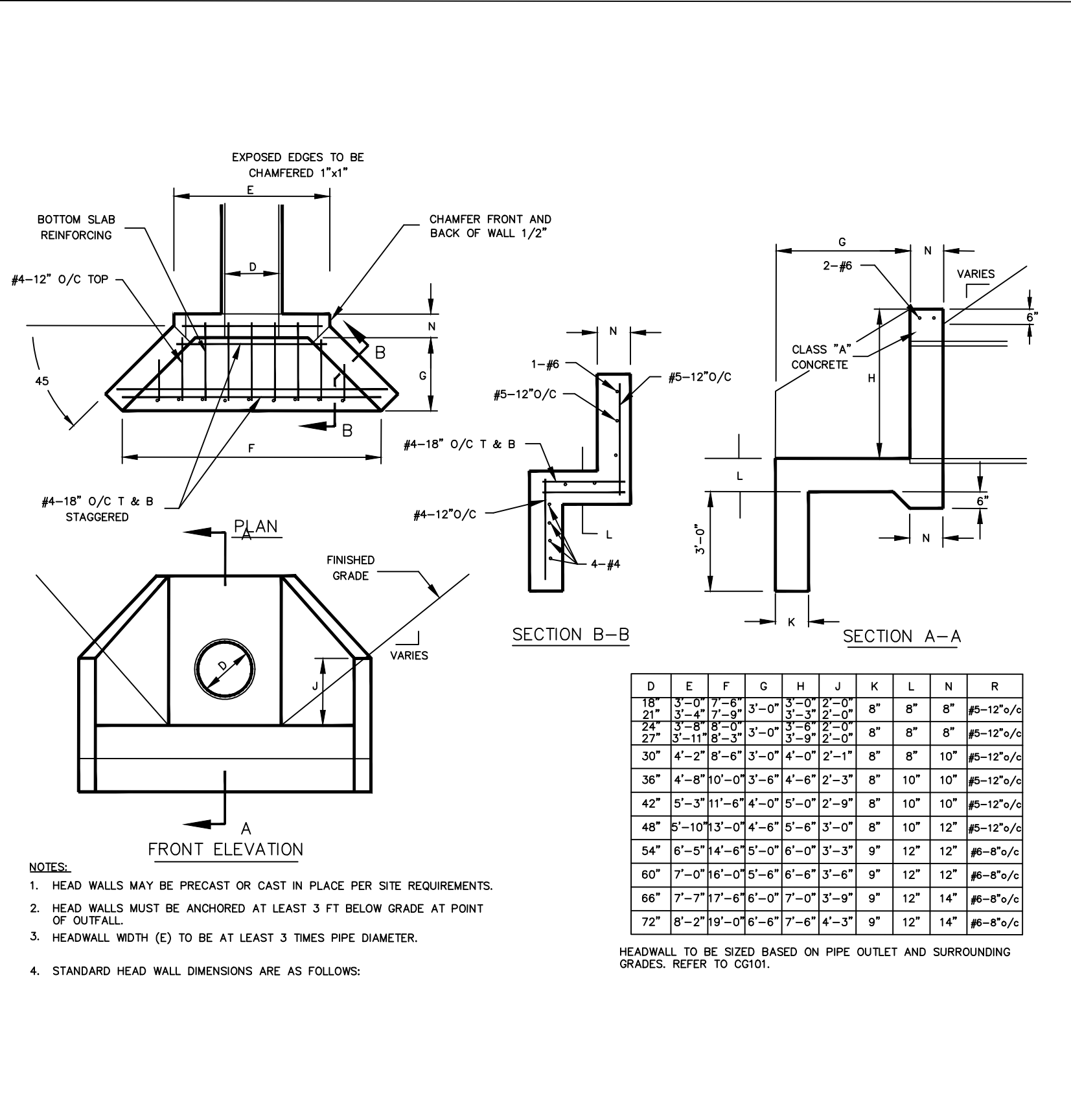
STORMTRAP DETAIL



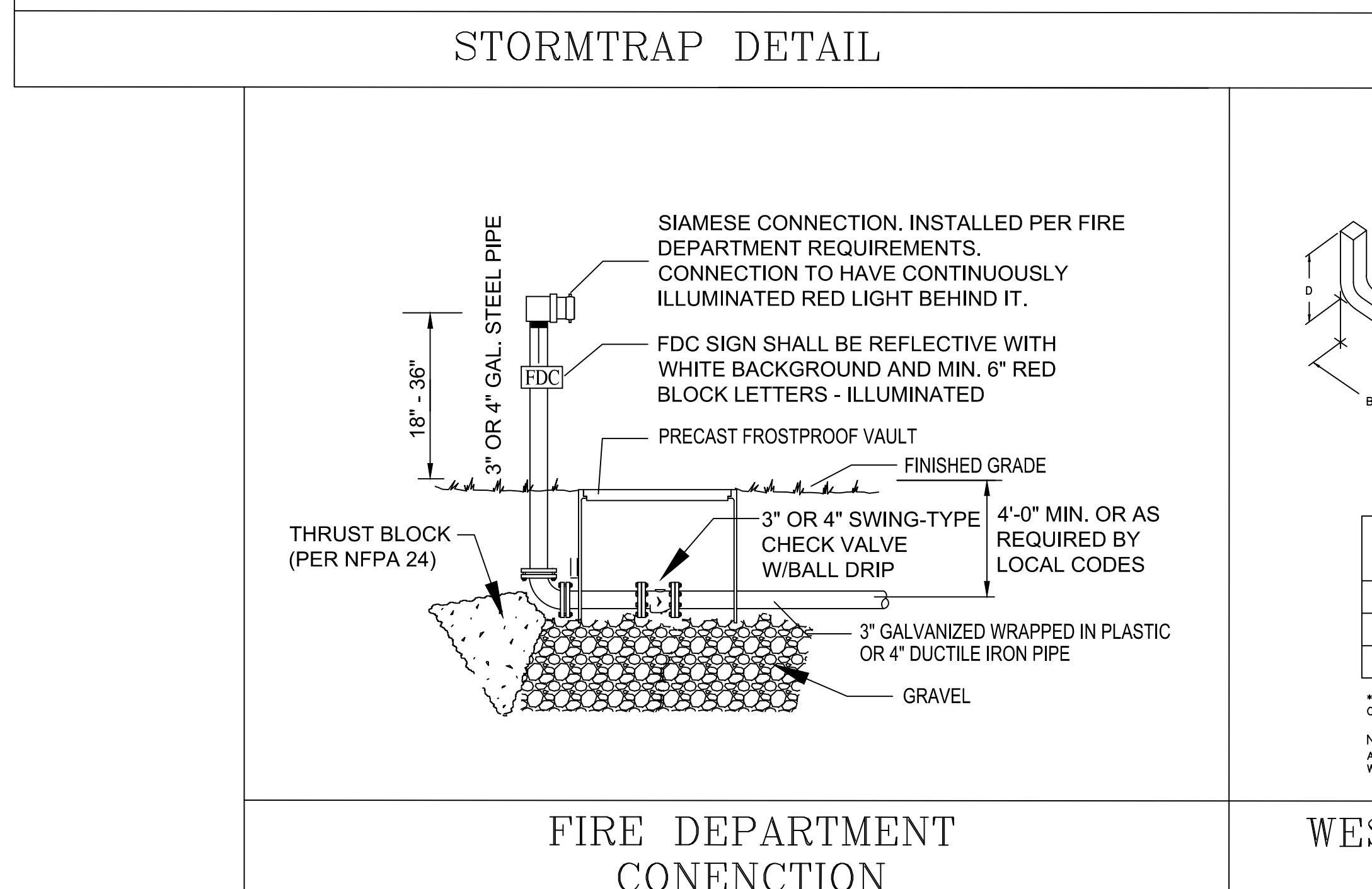
PIPE TRENCH DETAIL FOR FORCE MAIN AND SANITARY SEWER



NON-SANITARY SEWER-SITE TRENCH AND BEDDING

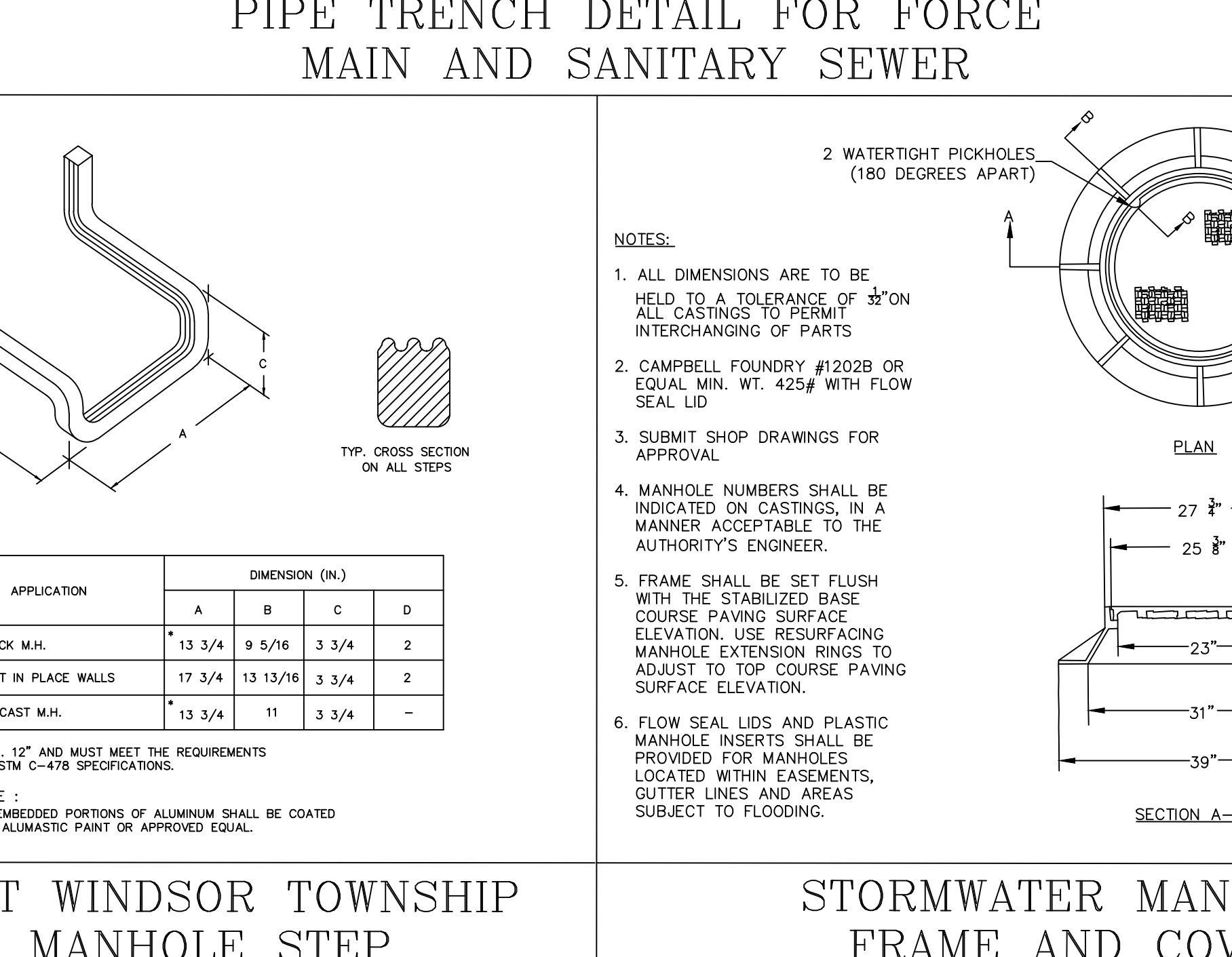


HEAD WALL

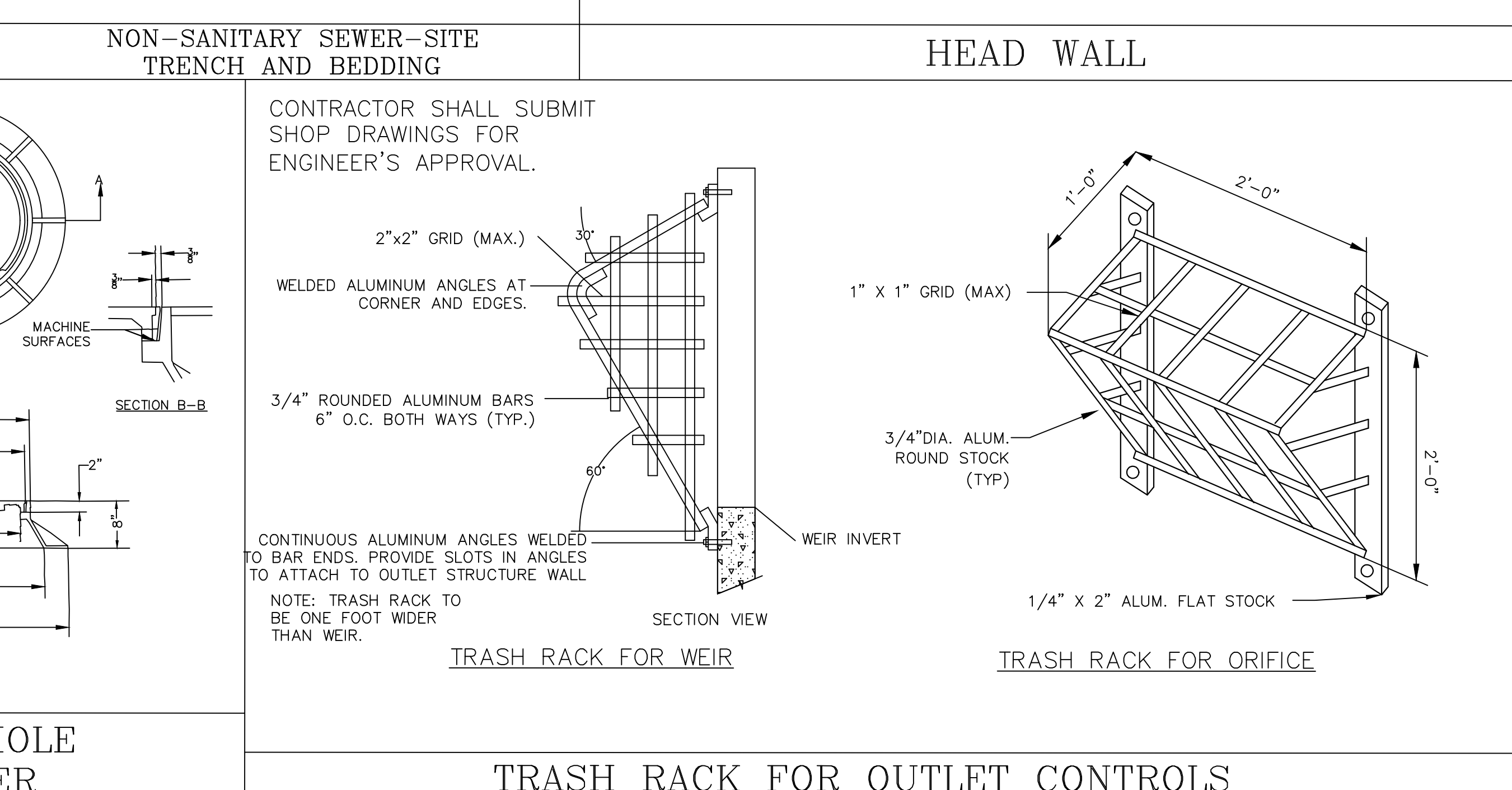


FIRE DEPARTMENT CONENCTION

WEST WINDSOR TOWNSHIP MANHOLE STEP



STORMWATER MANHOLE FRAME AND COVER



TRASH RACK FOR WEIR, TRASH RACK FOR ORIFICE, TRASH RACK FOR OUTLET CONTROLS

Date	Description	No.
12/3/2021	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1

REVISIONS

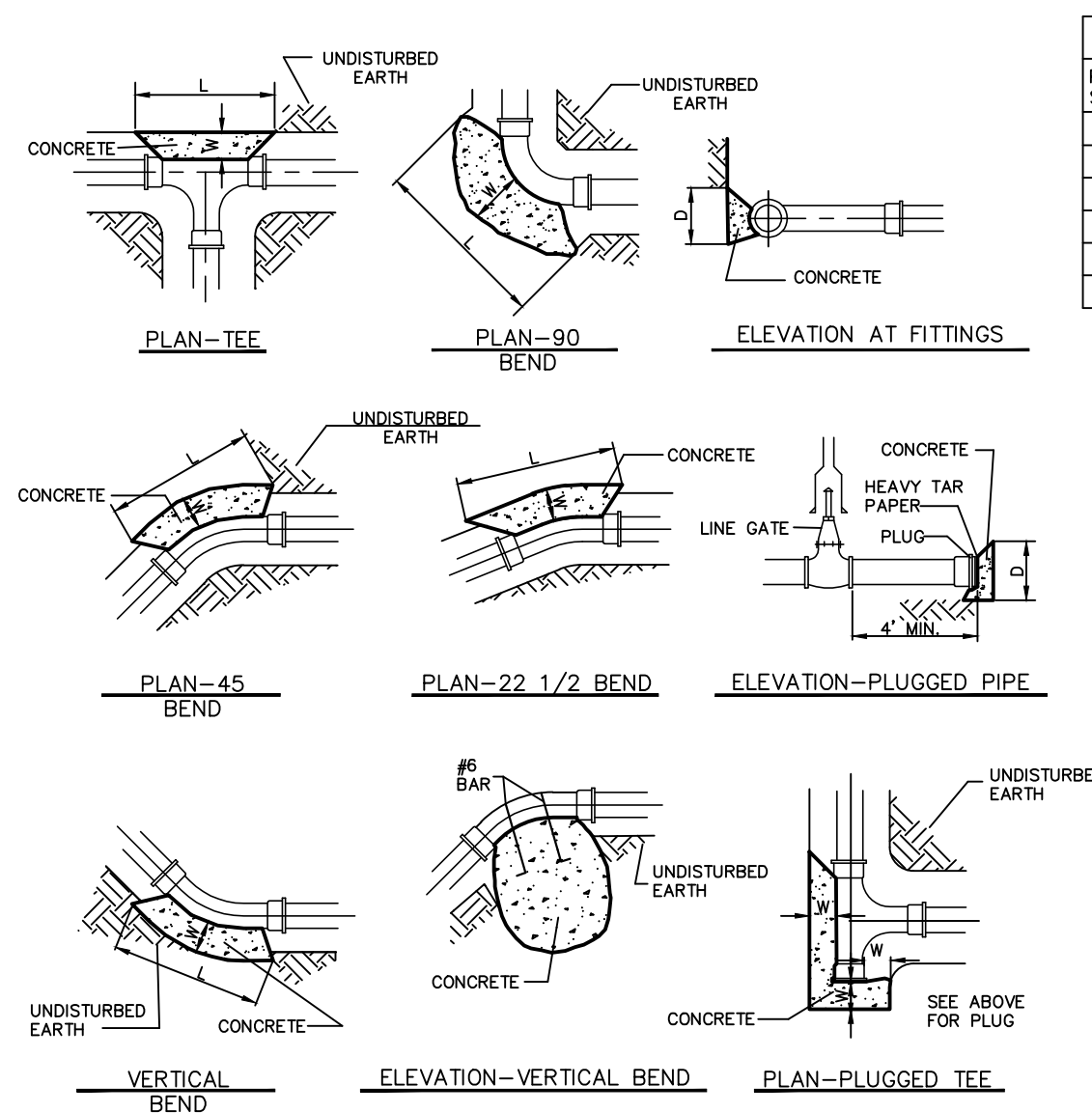
Chris Roche
 SIGNATURE CHRISTIAN ROCHE 11/12/2021
 PROFESSIONAL ENGINEER NJ Lic. No. 240E04928100

LANGAN
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 NJ CERTIFICATE OF AUTHORIZATION NO. 24624798460

Project
BRIDGE POINT 8 INDUSTRIAL PARK
 WEST WINDSOR TOWNSHIP
 MERCER COUNTY NEW JERSEY

Drawing Title
SITE DETAILS

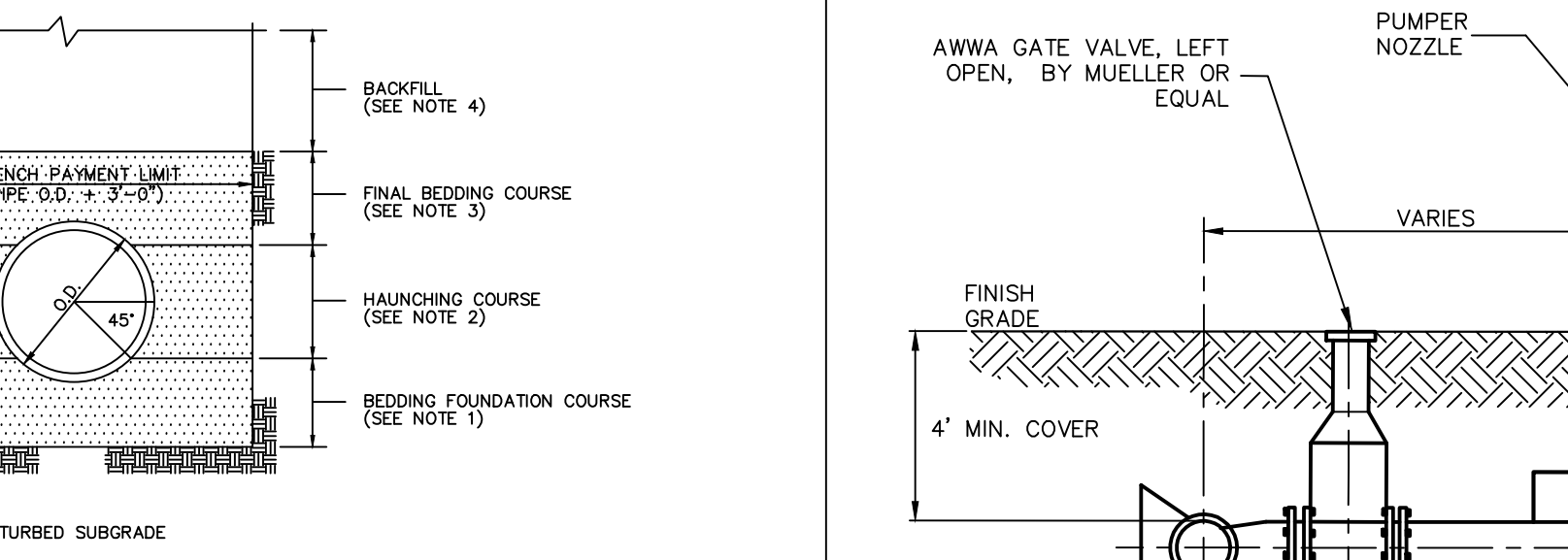
Project No.	Drawing No.
130172801	CS503
Date	12/03/2021
Drawn By	
Checked By	



PIPE SIZE	12"		15"		18"		21"		24"	
	L	D	L	D	L	D	L	D	L	D
6"	18"	15"	12"	12"	18"	15"	12"	12"	18"	15"
8"	24"	18"	18"	15"	24"	18"	15"	12"	24"	18"
12"	36"	24"	24"	18"	36"	24"	18"	12"	36"	24"
16"	48"	36"	36"	24"	48"	36"	24"	18"	48"	36"
20"	60"	48"	48"	36"	60"	48"	36"	24"	60"	48"
24"	72"	60"	60"	48"	72"	60"	48"	36"	72"	60"

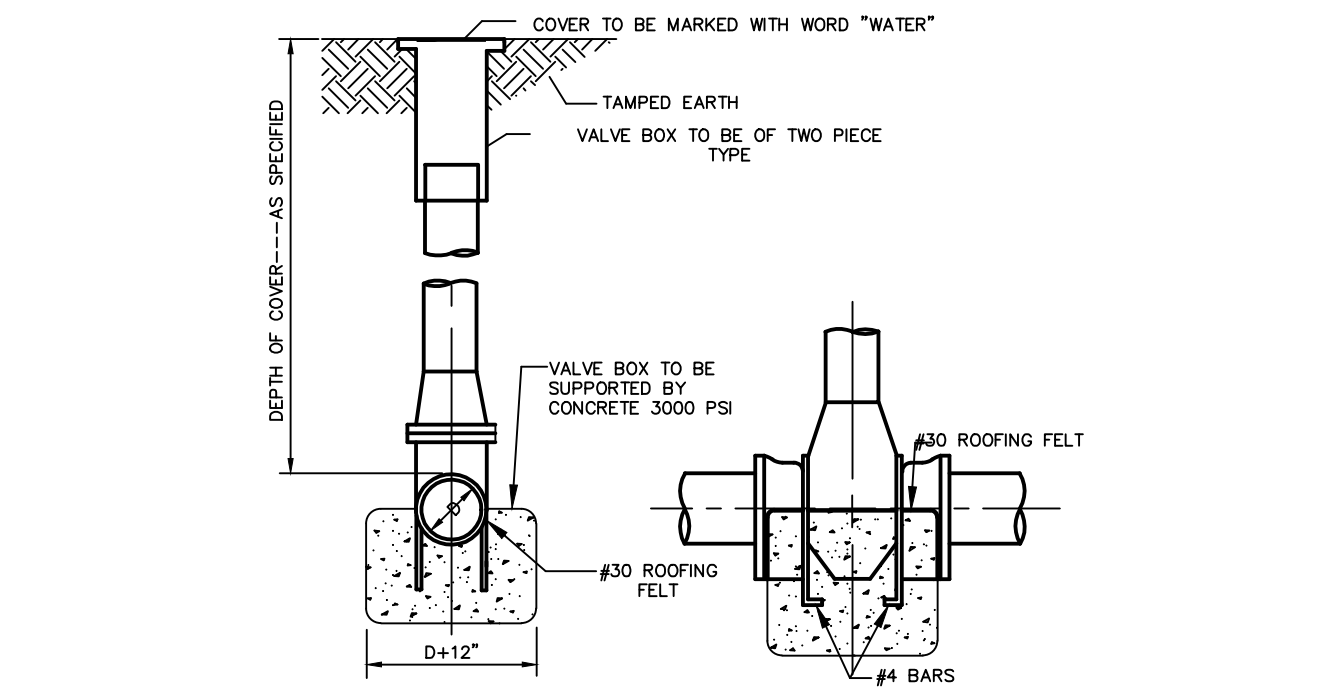
THRUST BLOCKS

WEST WINDSOR SANITARY LATERAL CONNECTION

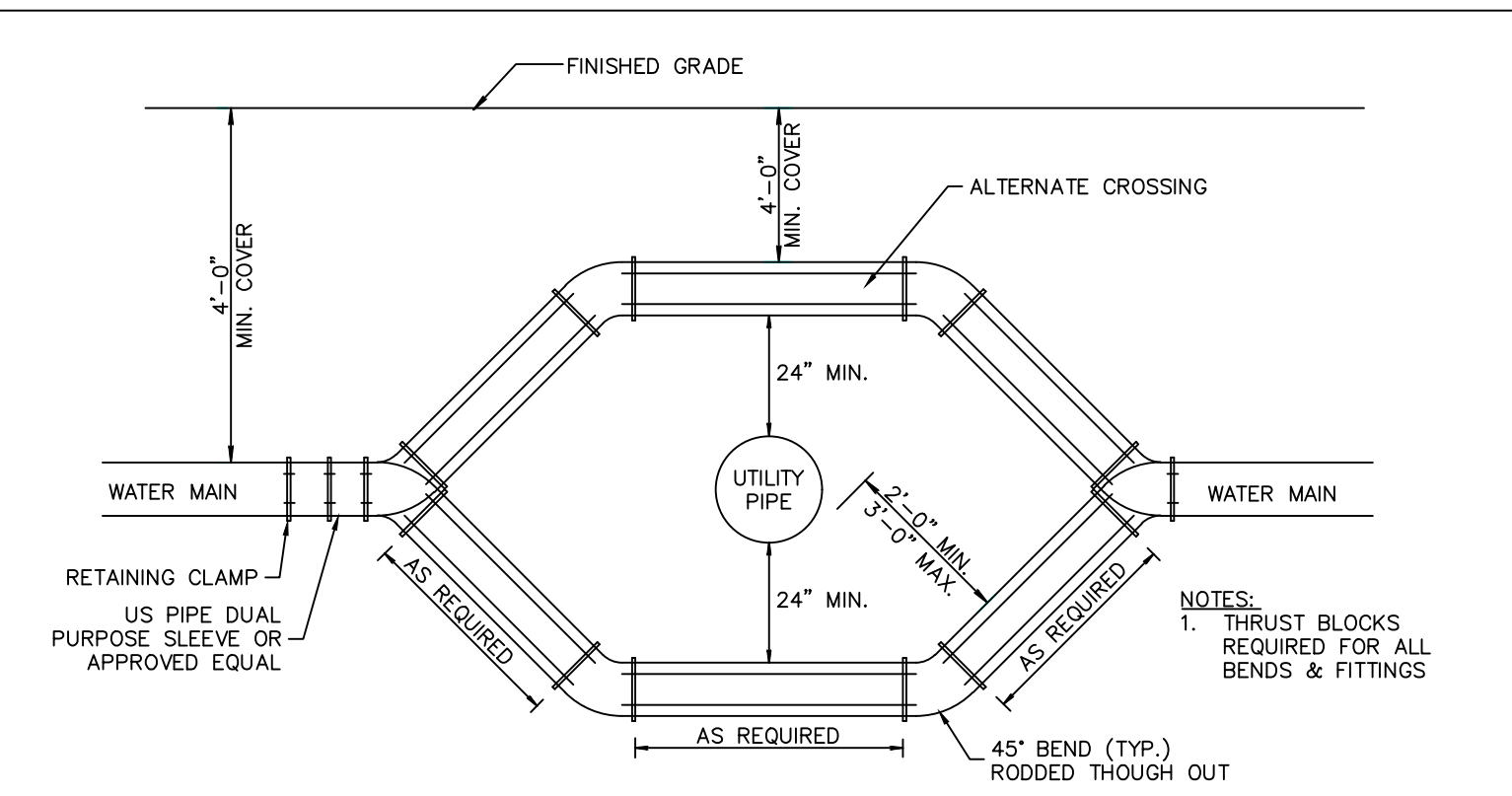


- NOTES:**
1. BEDDING FOUNDATION COURSE - EXISTING TRENCH EXCAVATION MATERIAL MAY BE USED IF DETERMINED SUITABLE BY THE ENGINEER. UNSUITABLE TRENCH MATERIALS SHALL BE REMOVED AND REPLACED WITH CRUSHED STONE. (SEE NOTE DEEP HOUSE CONNECTIONS). EXISTING MATERIALS DETERMINED TO BE SUITABLE THAT HAVE BEEN DISTURBED, SHALL BE RECOMPACTED TO A DENSITY EQUAL TO THAT OF THE UNDISTURBED. RECOMPACTING SHALL TAKE PLACE PRIOR TO PIPE INSTALLATION. IN ALL CASES THE BEDDING FOUNDATION COURSE SHALL PROVIDE UNIFORM, CONTINUOUS AND ADEQUATE SUPPORT FOR THE PIPE.
 2. HAUNCHING COURSE - TO BE SELECT OR SUITABLE BACKFILL SO AS PROVIDE LATERAL SUPPORT TO PREVENT DEFLECTION OR MOVEMENT OF THE PIPE BOTH VERTICALLY AND HORIZONTALLY. MATERIAL TO BE SAME AS BEDDING FOUNDATION COURSE.
 3. FINAL BEDDING COURSE - TO BE SELECT OR SUITABLE BACKFILL, TAMPING ON SIDE OF PIPE REQUIRED WITH CAUTIOUS TAMPING BACKFILL OVER TOP OF PIPE TO PRECLUDE MOVEMENT OR DEFLECTION OF PIPE. MATERIAL TO BE PLACED IN 6-INCH LIFTS.
 4. BACKFILL ABOVE THE BEDDING AREA SHALL BE A SUITABLE MATERIAL COMPACTED TO A DENSITY EQUAL TO OR GREATER THAN THE ADJACENT UNDISTURBED MATERIALS. SAID COMPACTION TO BE REACHED PRIOR TO BITUMINOUS STAR BASE COURSE CONSTRUCTION. DENSITY TESTS MAY BE REQUIRED BY THE TOWNSHIP ENGINEER AND COSTS OF SAME TO BE BORNE BY THE CONTRACTOR OR DEVELOPER.

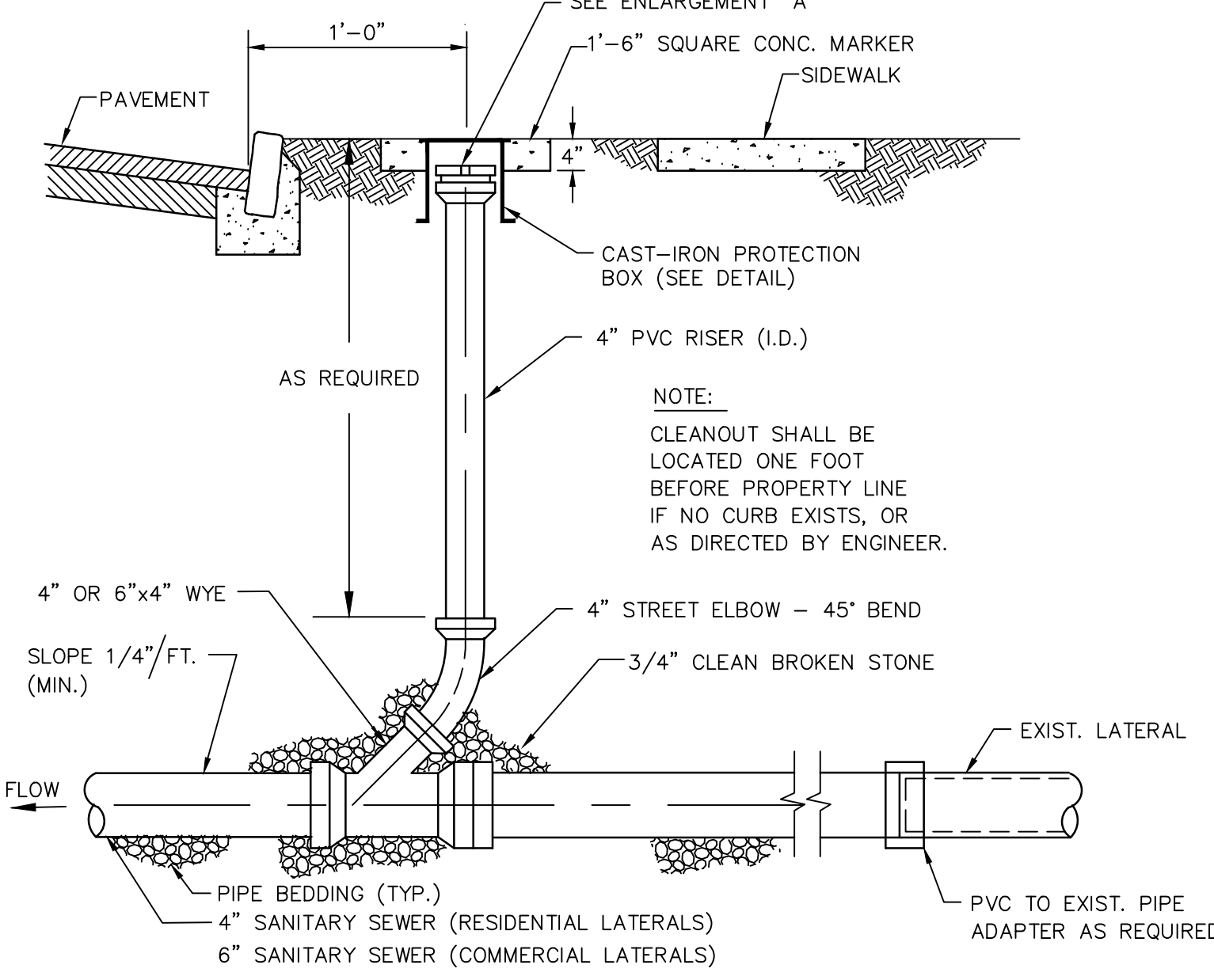
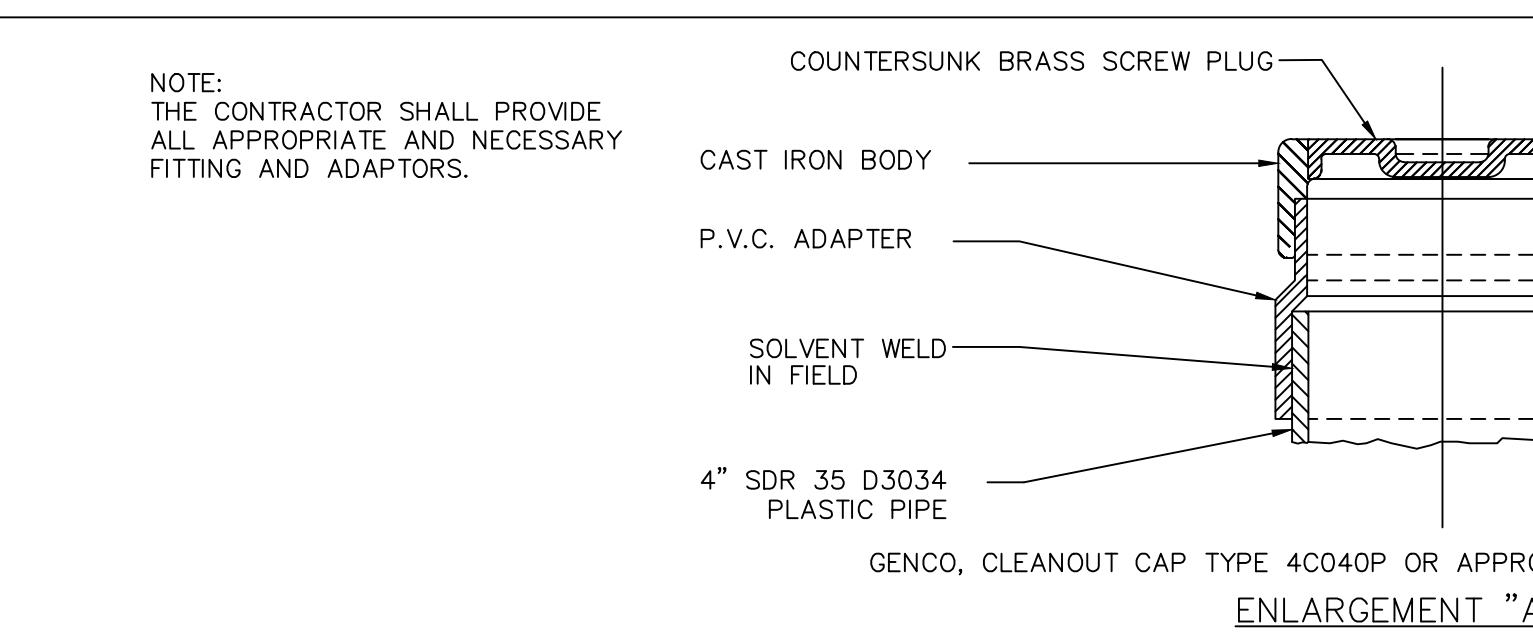
WEST WINDSOR TOWNSHIP PIPE BEDDING



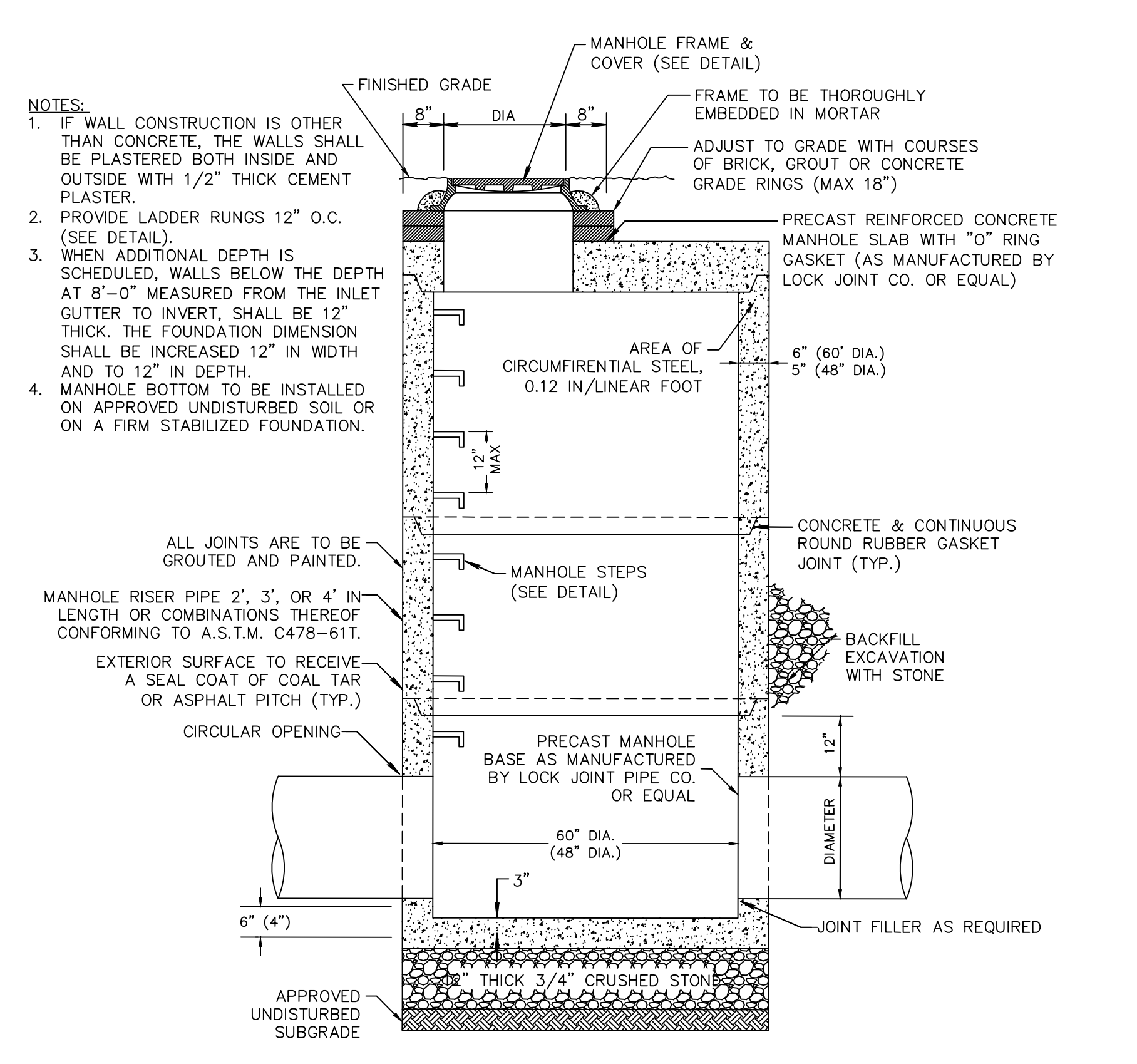
FIRE HYDRANT



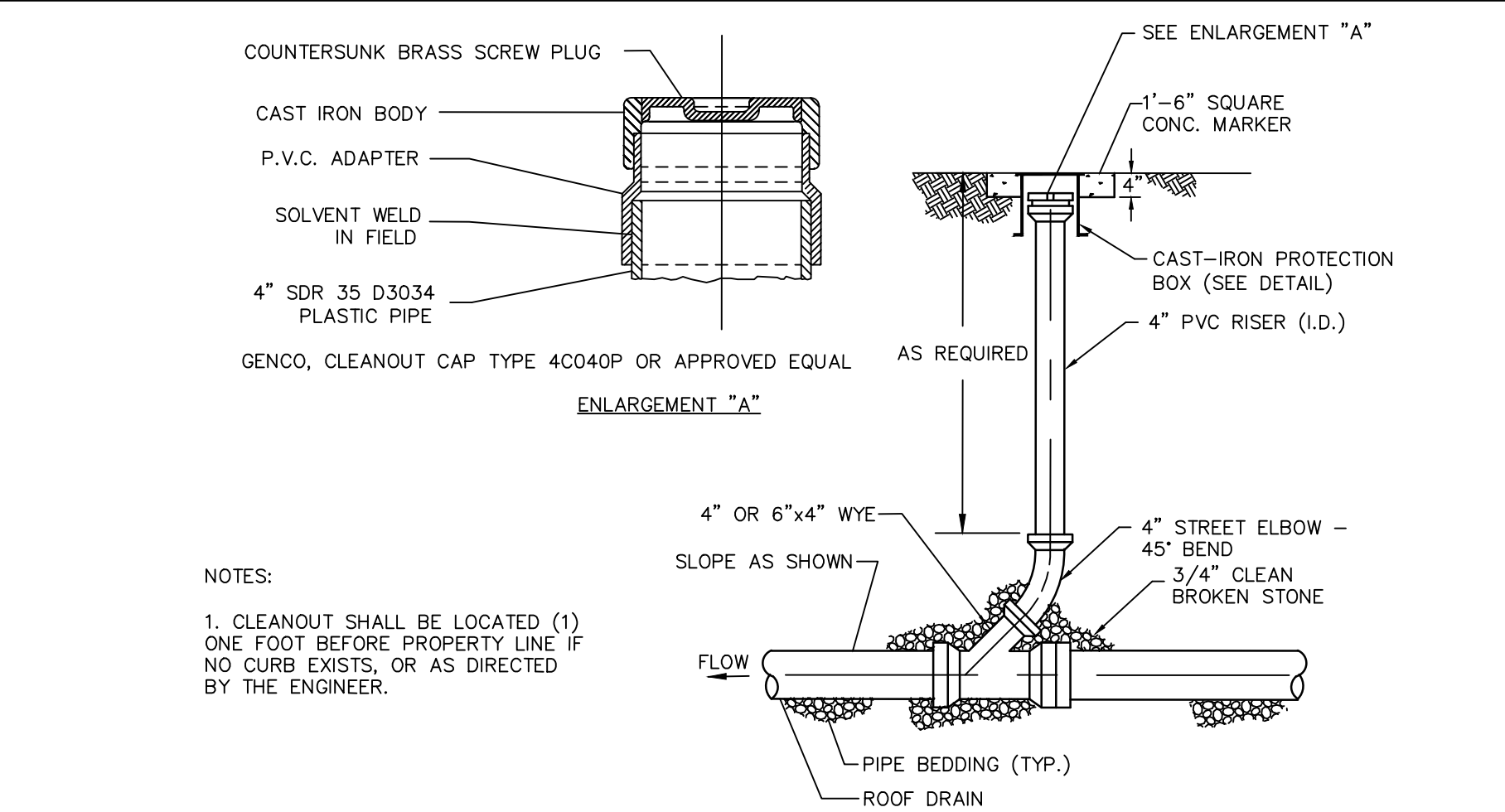
WATER MAIN-CROSSING UTILITY DETAIL



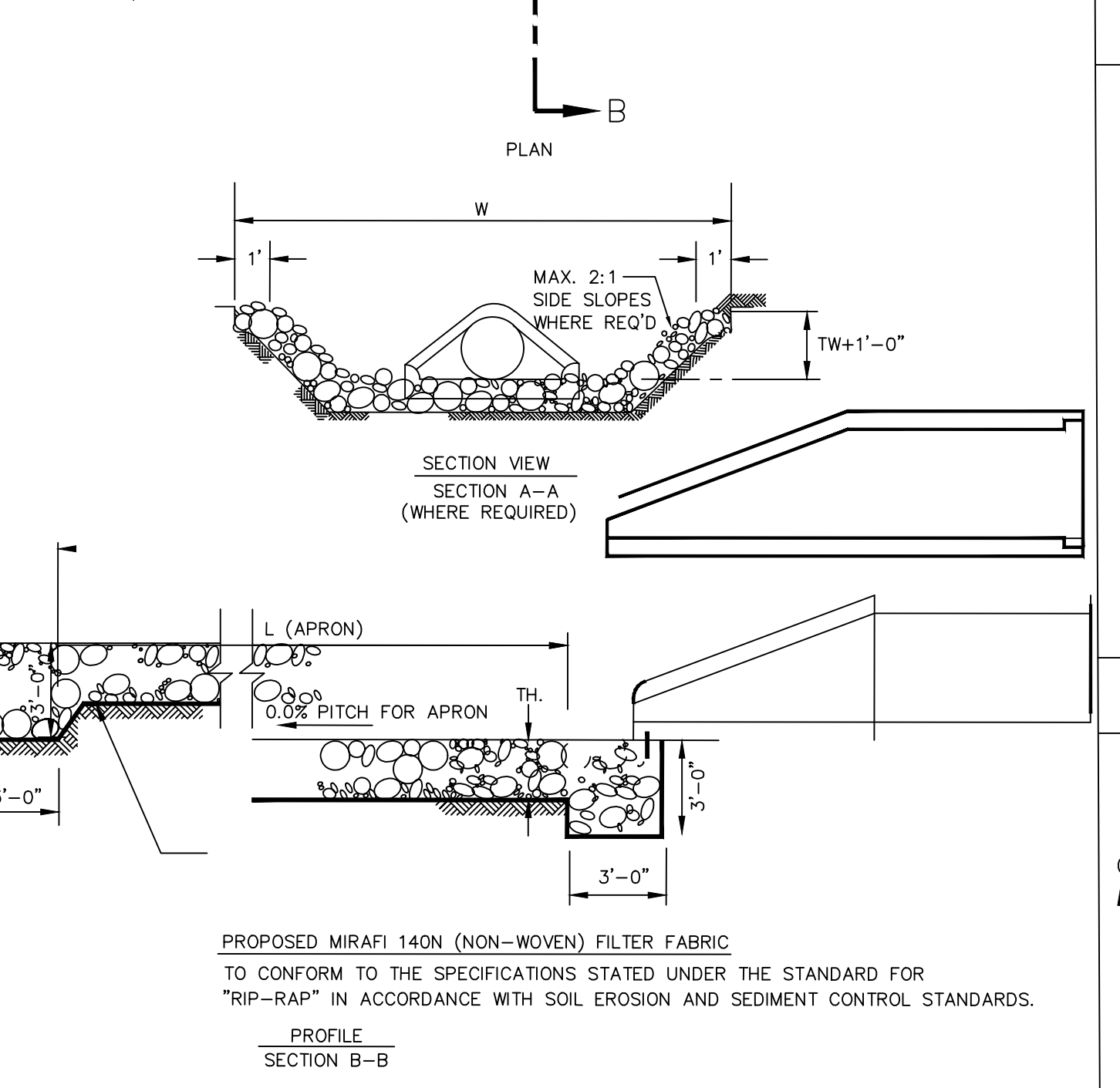
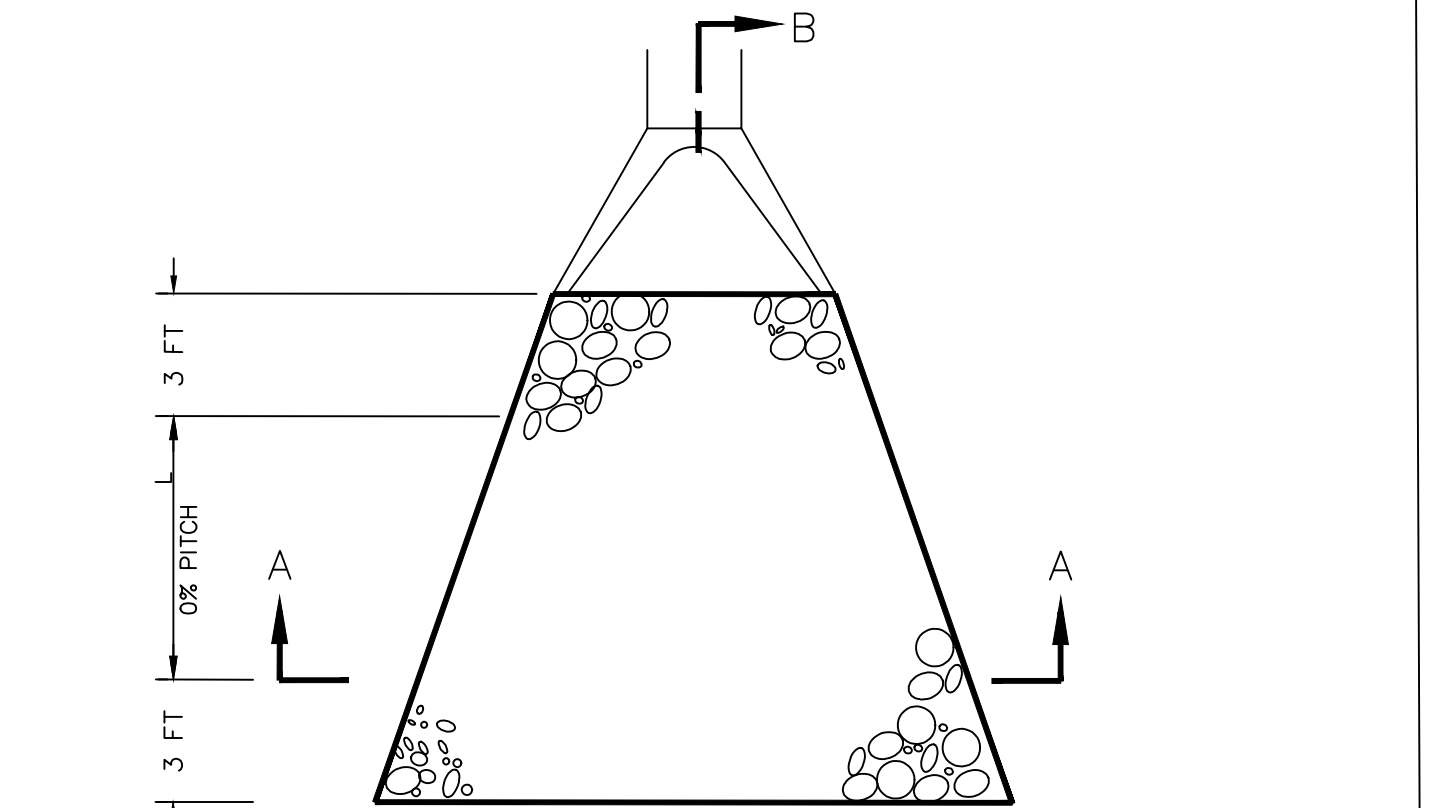
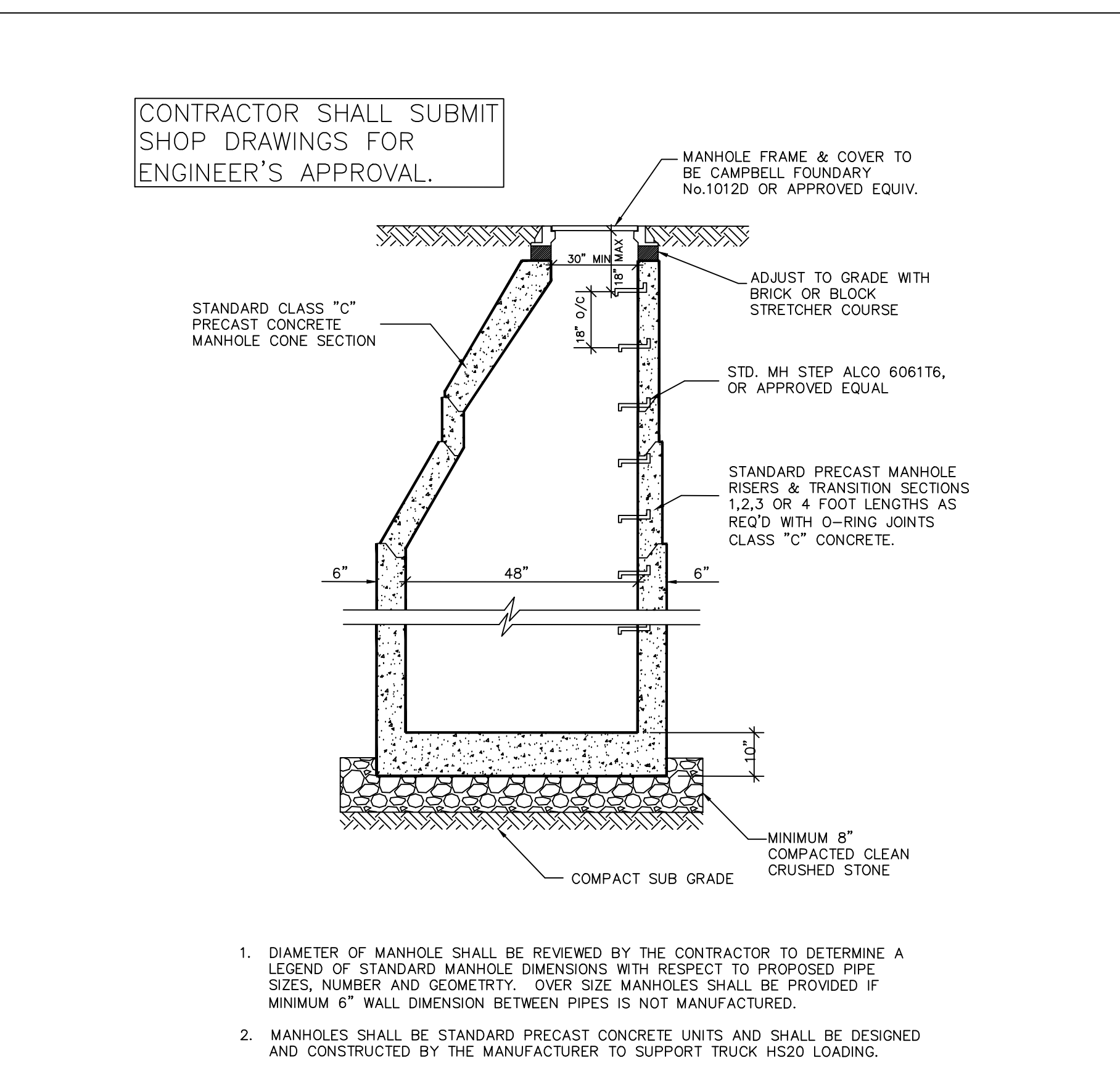
CURB PIECE TYPE N-ECO



OVERSIZED MANHOLE (PIPES > 36")

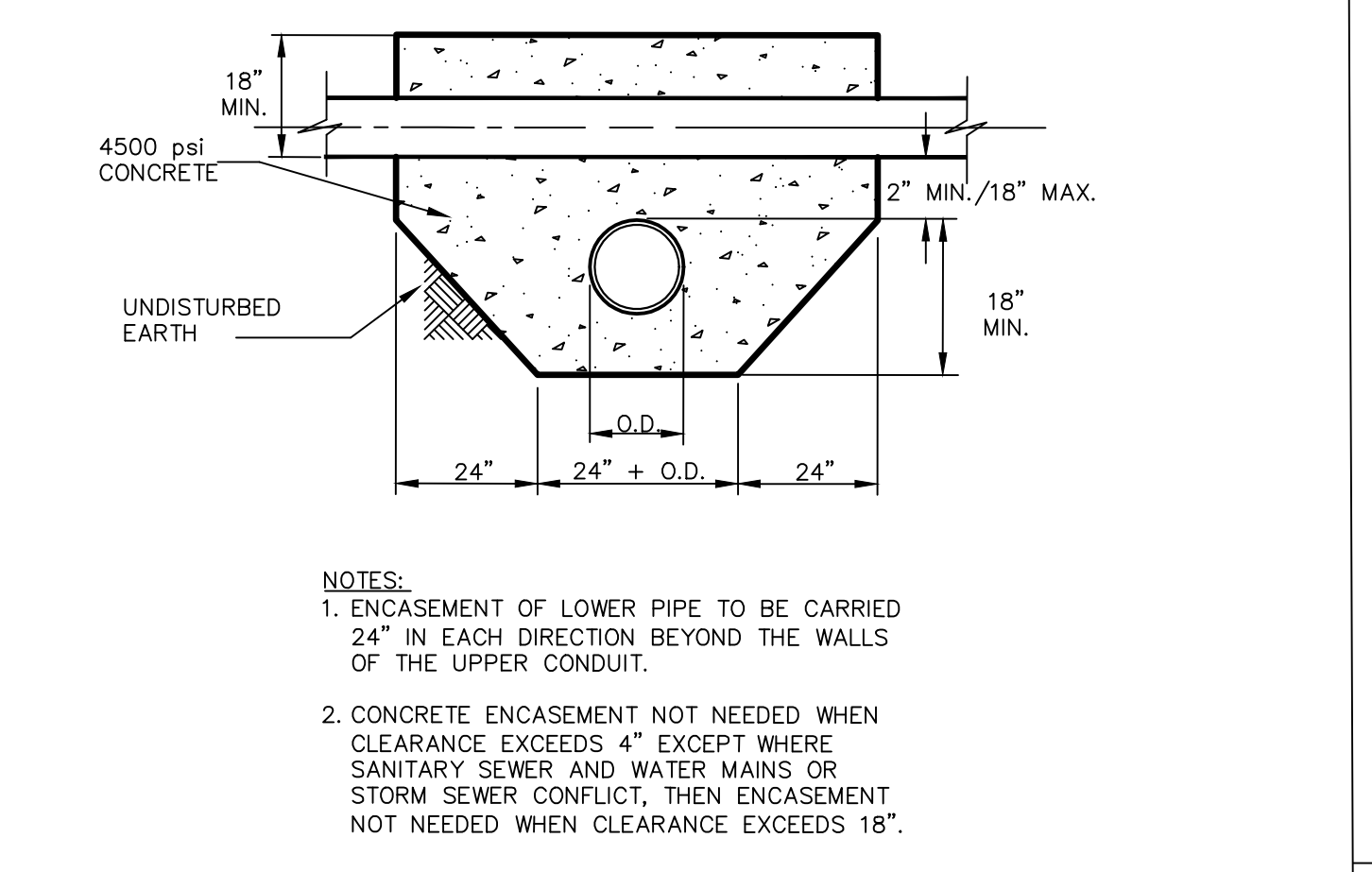


STORM CLEANOUT DETAIL



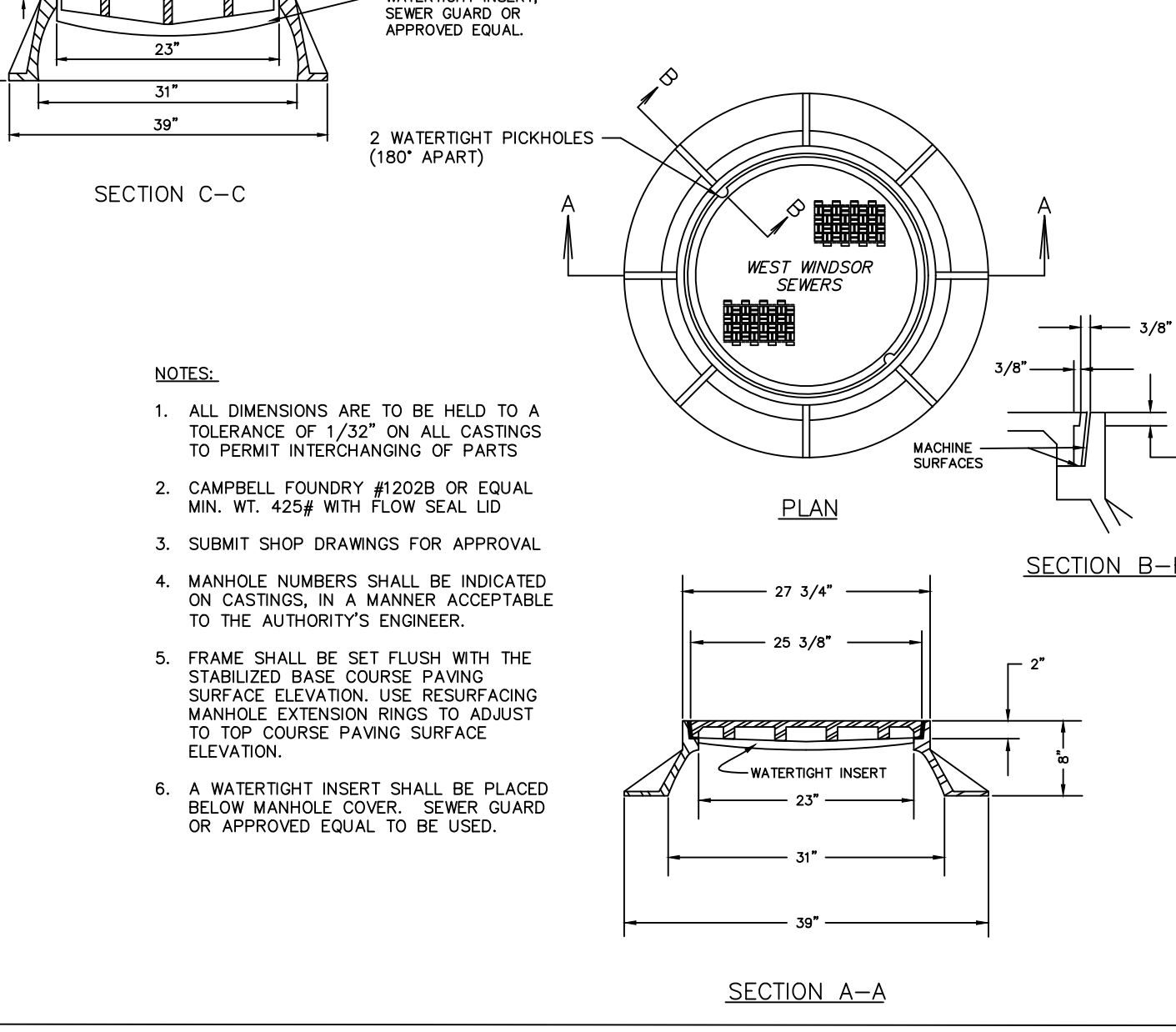
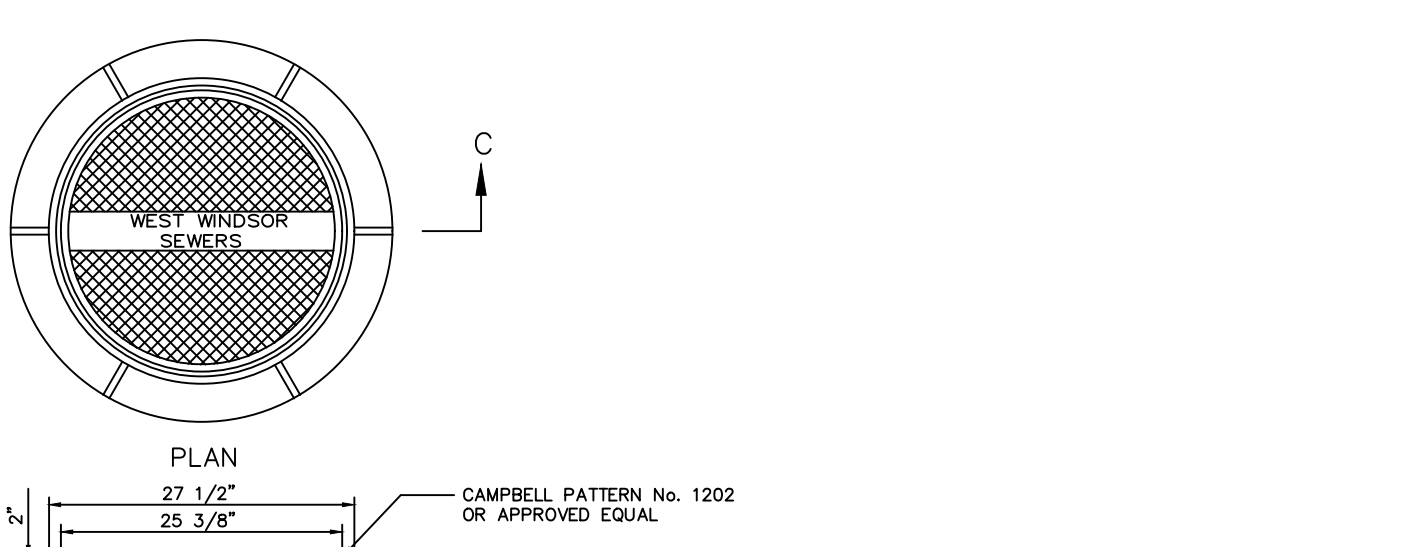
- NOTES:**
1. ALL RIP-RAP IS DESIGNED FOR THE 25-YEAR STORM
 2. REFER TO APPROVED SOIL EROSION PLANS FOR RIP-RAP DIMENSIONS.

RIP-RAP OUTLET PROTECTION



NON-SANITARY UTILITY CROSSING

GATE VALVE



WEST WINDSOR TOWNSHIP PRECAST SANITARY MANHOLE

SANITARY CLEANOUT

STORM MANHOLE

2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

REVISIONS

Chris Roche
 SIGNATURE CHRISTIAN ROCHE 11/12/2021
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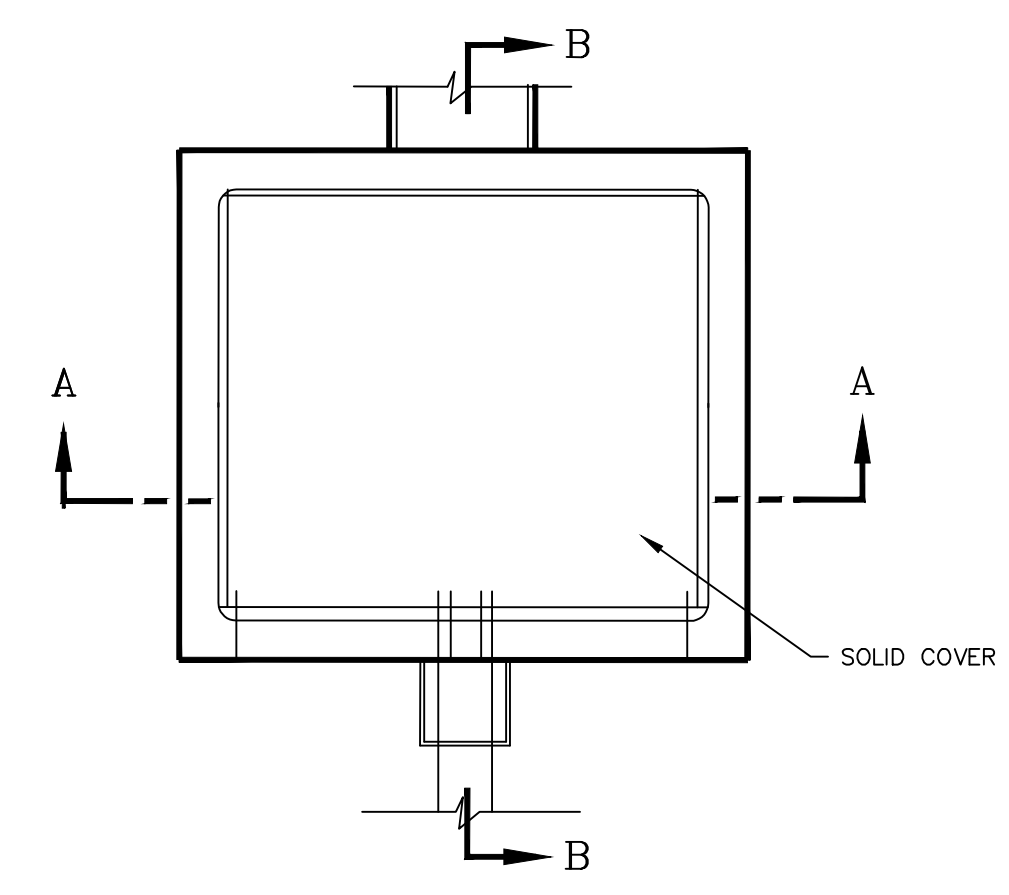
LANGAN
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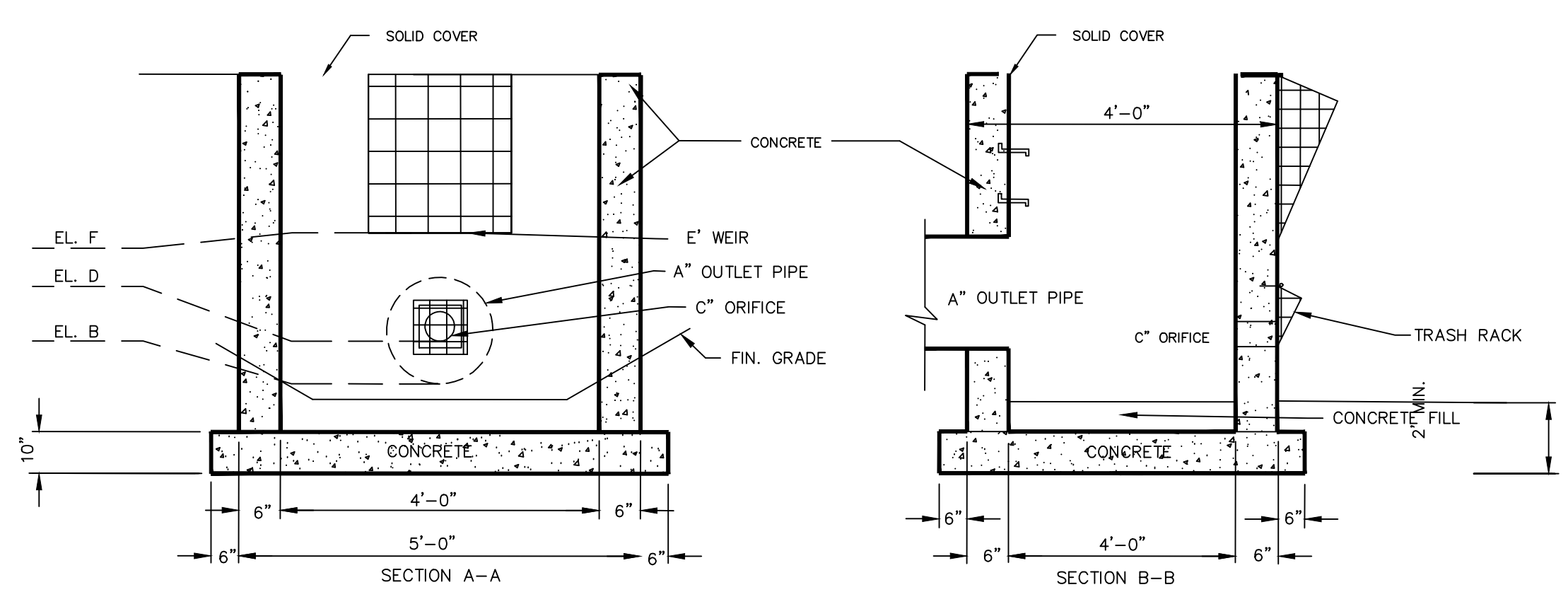
Project
BRIDGE POINT 8 INDUSTRIAL PARK
 WEST WINDSOR TOWNSHIP
 MERCER COUNTY NEW JERSEY

Drawing Title
SITE DETAILS

Project No.	Drawing No.
130172801	CS504
Date	
12/03/2021	
Drawn By	
Checked By	



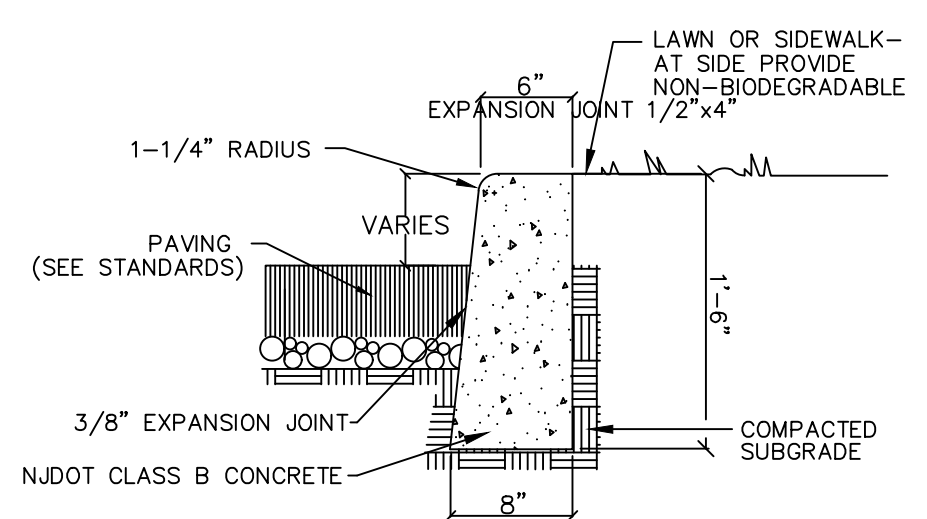
- GENERAL NOTES:**
1. ALL ANCHOR BOLTS, NUTS AND WASHERS TO BE GALVANIZED.
 2. FRAME AND GRATE TO BE CAMPBELL FOUNDRY NO. 3425 OR FABRICATED ALUMINUM GRATE.
 3. ORIFICE TRASH RACK FRAME TO BE HINGED. SIZE IS 12"x12"x12".
 4. PROVIDE SHOP DRAWINGS FOR STRUCTURES AND APPURTENANCES.



OUTLET STRUCTURE	OUTLET PIPE SIZE	OUTLET PIPE ELEV.	1ST STAGE ORIFICE SIZE	1ST STAGE ORIFICE ELEV.	2ND STAGE WEIR WIDTH	2ND STAGE WEIR ELEV.
	A	B	C	D	E	F
OCS-UG-1 (POA-1)	10"	76.00'	3"	79.75' / 82.00'	4'	83.10'
OCS-UG-2 (POA-1)	30"	75.80'	3"	77.80' / 78.80'	4'	79.50'

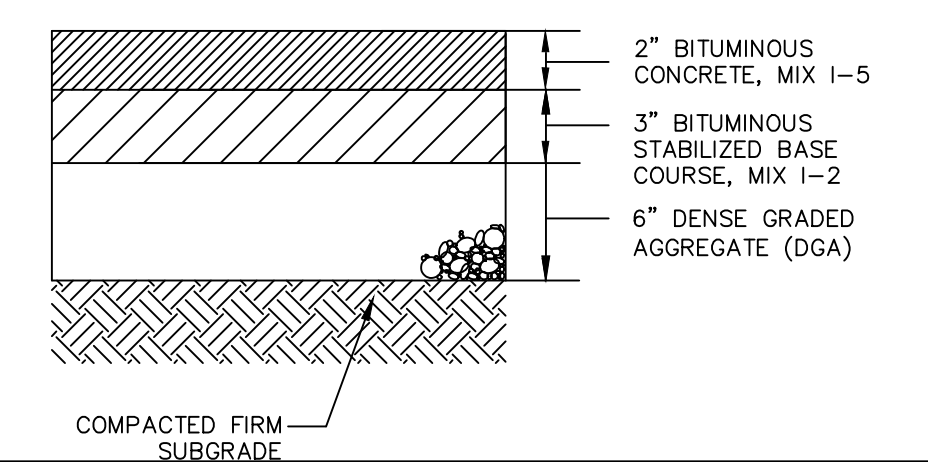
N.T.S.

TYPICAL OUTLET STRUCTURE – UNDERGROUND DETENTION

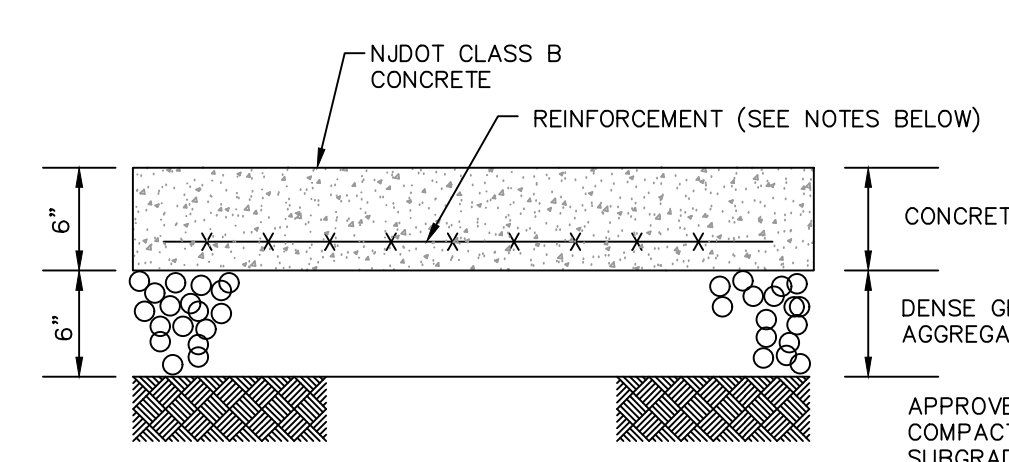


- NOTES:**
1. CONCRETE SHALL BE NJDOT CLASS B.
 2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 10'-0" APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS JOINT FILLER. RECESSED 1/4" FROM THE FRONT FACE AND TOP OF THE CURB. EXPANSION JOINTS ALSO BE INSTALLED WHERE THE CURB IS ADJACENT TO SIDEWALKS AND CATCH BASINS.
 3. EXPOSED CONCRETE SURFACE IS TO BE RUBBED TO PROVIDE SMOOTH FINISHED SURFACE.

CONCRETE CURB



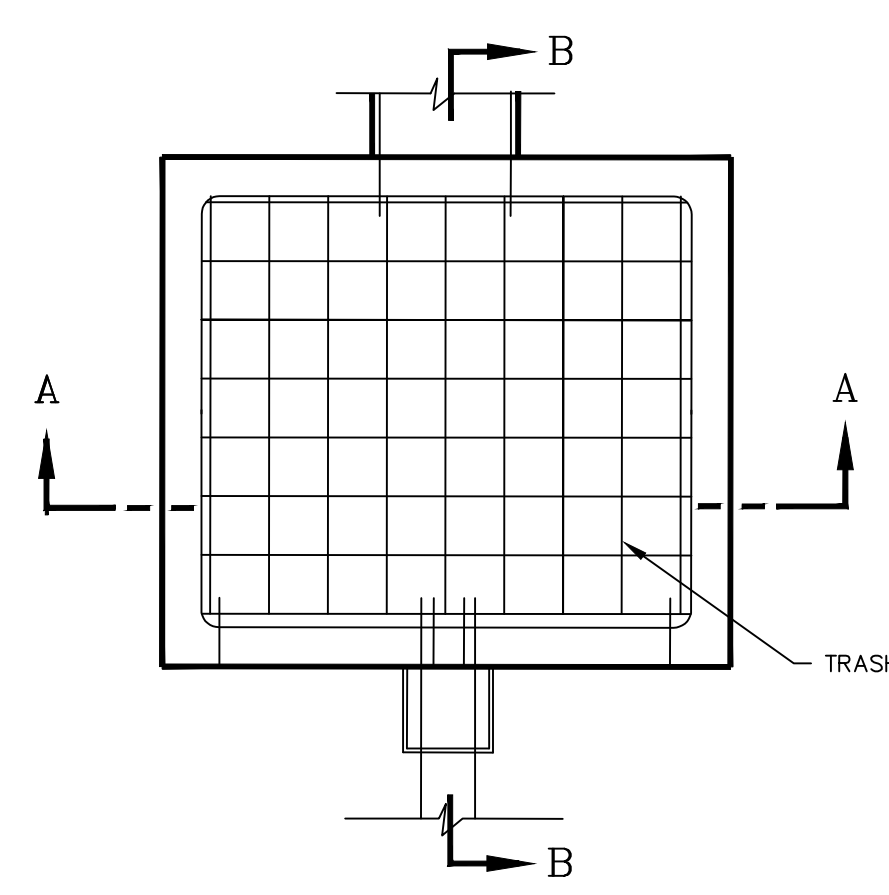
PAVEMENT SECTION



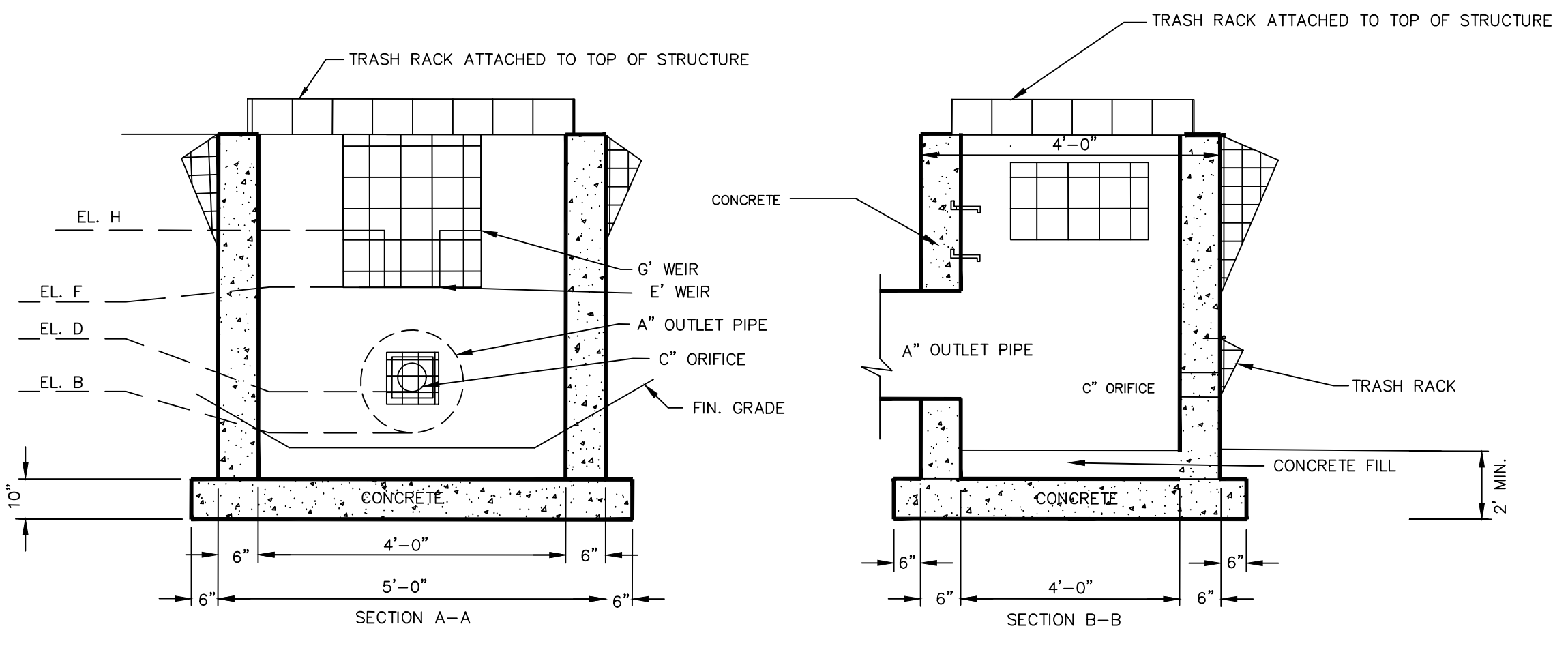
CONCRETE PAD

- NOTES:**
1. STEEL REINFORCEMENT SHALL CONSIST OF 6-INCH BY 6-INCH W2.9 x W2.9 WELDED WIRE FABRIC. FABRIC SHOULD CONSIST OF SHEETS (ROLLS NOT ACCEPTABLE) PROPERLY SUPPORTED ON CHAIRS DURING CONCRETE PLACEMENT.
 2. REINFORCEMENT SHOULD BE PLACED SO THAT 2 INCHES OF CONCRETE COVERAGE IS PROVIDED BETWEEN THE REINFORCEMENT STEEL AND THE AGGREGATE SUBGRADE. MATERIALS AND CONSTRUCTION, INCLUDING JOINTS, SHOULD BE IN CONFORMANCE WITH THE APPROPRIATE TECHNICAL SPECIFICATIONS.

TRASH AND RECYCLING CONCRETE PAD DETAIL



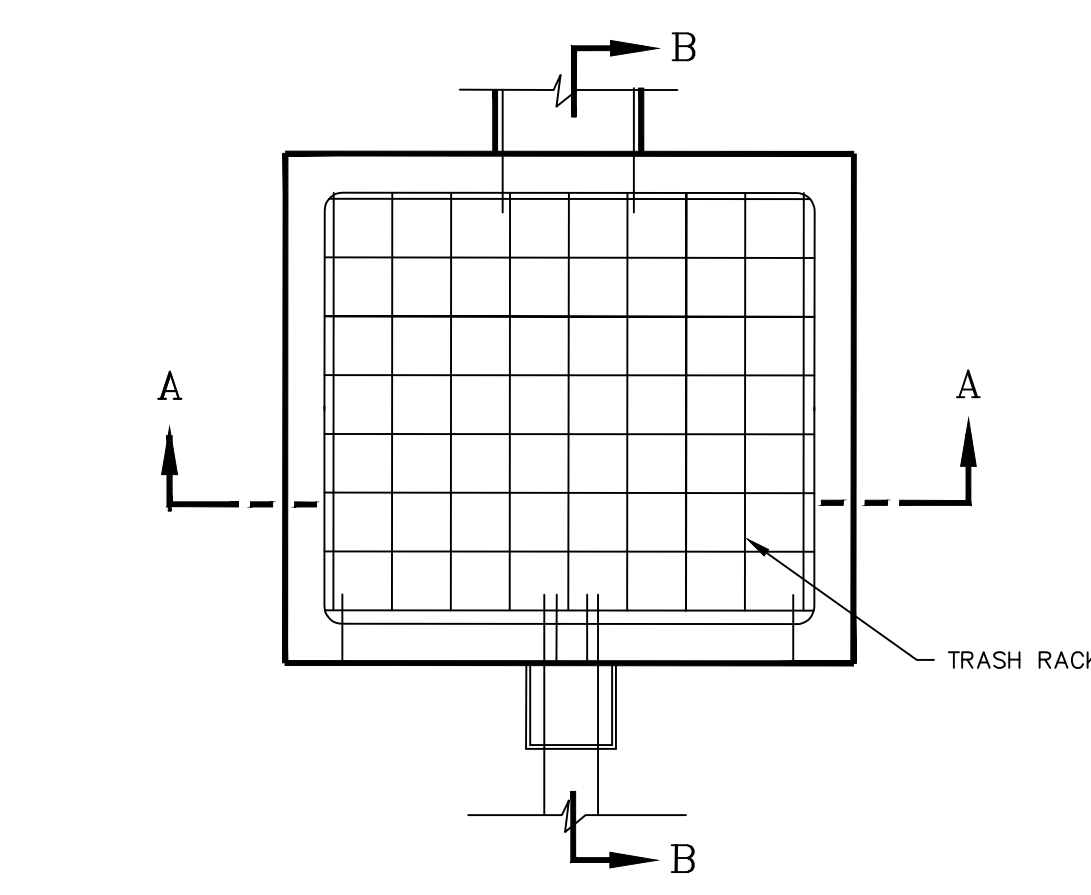
- GENERAL NOTES:**
1. ALL ANCHOR BOLTS, NUTS AND WASHERS TO BE GALVANIZED.
 2. FRAME AND GRATE TO BE CAMPBELL FOUNDRY NO. 3425 OR FABRICATED ALUMINUM GRATE.
 3. ORIFICE TRASH RACK FRAME TO BE HINGED. SIZE IS 12"x12"x12".
 4. PROVIDE SHOP DRAWINGS FOR STRUCTURES AND APPURTENANCES.



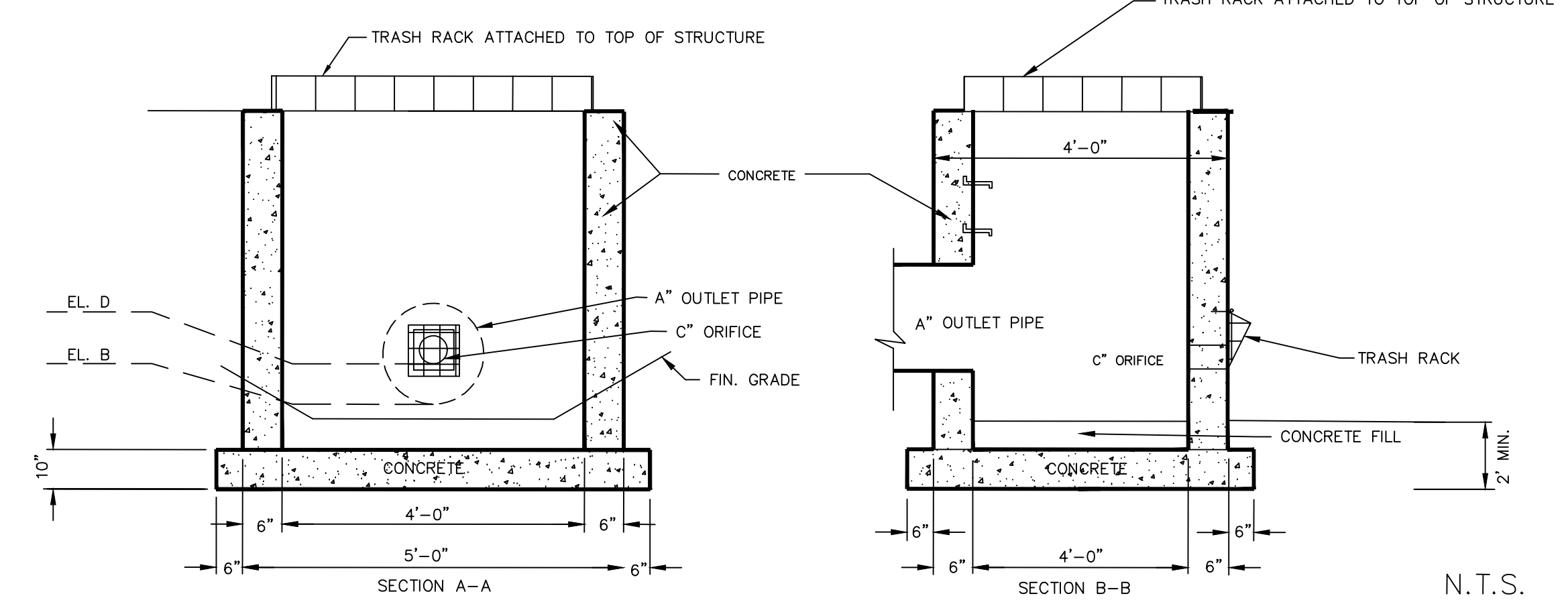
OUTLET STRUCTURE	OUTLET PIPE SIZE	OUTLET PIPE ELEV.	1ST STAGE ORIFICE SIZE	1ST STAGE ORIFICE ELEV.	2ND STAGE WEIR WIDTH	2ND STAGE WEIR ELEV.	3RD STAGE WEIR WIDTH	3RD STAGE WEIR ELEV.
	A	B	C	D	E	F	G	H
OCS-610	42"	68.90'	8"	73.10'	6"	75.00'	2.5' x 1' OPENING X 3	76.90'
OCS-503	18"	81.30'	3"	86.00'	1.5' x 0.33'	87.00'	N/A	N/A
OCS-301	30"	71.23'	3"	77.50'	2' x 3'	80.00'	N/A	N/A
OCS-207	18"	65.93'	3"	75.00'	2' x 1.5'	75.75'	N/A	N/A
OCS-204	24"	68.09'	3"	73.50'	2' x 3"	74.50'	N/A	N/A

N.T.S.

TYPICAL OUTLET STRUCTURE
CONSTRUCTED WETLANDS/INFILTRATION BASINS



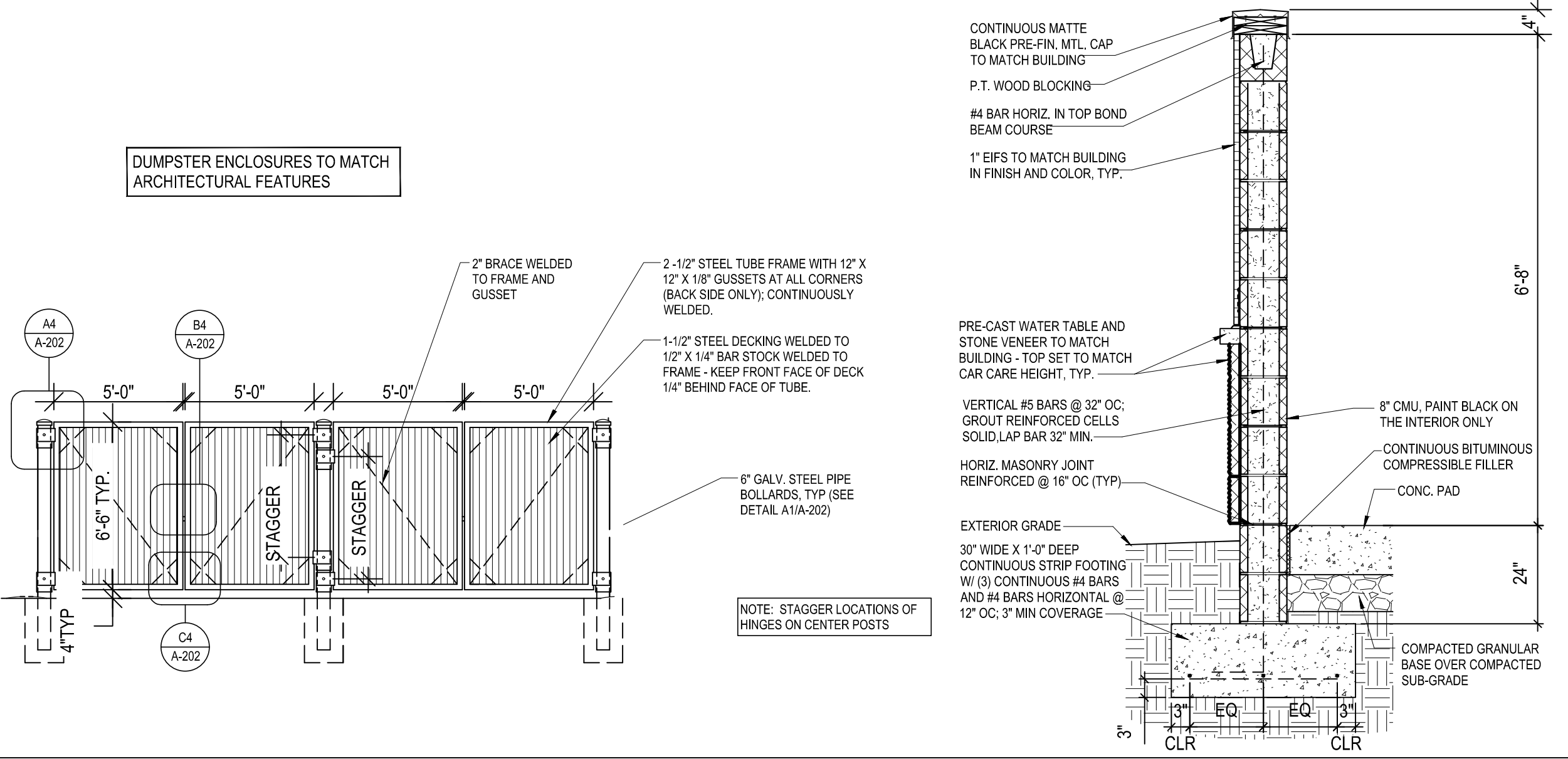
- GENERAL NOTES:**
1. ALL ANCHOR BOLTS, NUTS AND WASHERS TO BE GALVANIZED.
 2. FRAME AND GRATE TO BE CAMPBELL FOUNDRY NO. 3425 OR FABRICATED ALUMINUM GRATE.
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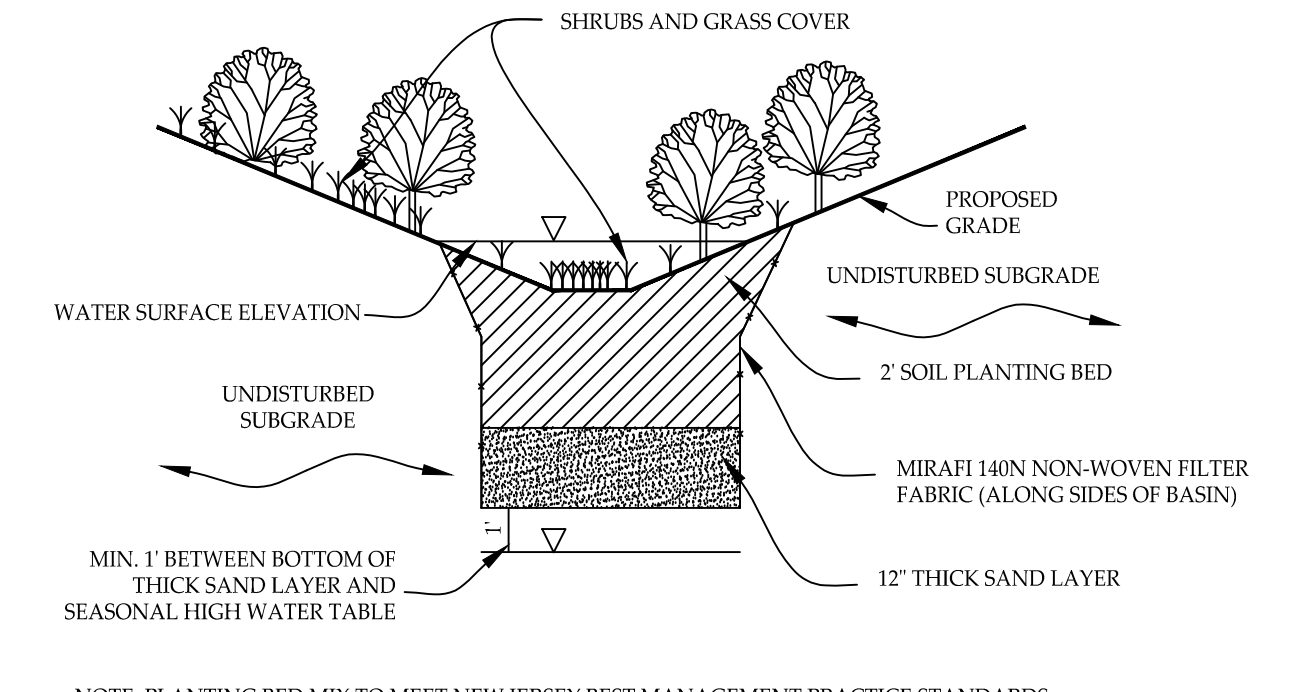
OUTLET STRUCTURE	OUTLET PIPE SIZE	OUTLET PIPE ELEV.	1ST STAGE ORIFICE SIZE	1ST STAGE ORIFICE ELEV.
	A	B	C	D
OCS-302	12"	72.21'	3"	72.30'
OCS-303	12"	66.33'	3"	72.30'
OCS-305	12"	74.65'	3"	74.65'
OCS-304	12"	74.20'	3"	74.20'
OCS-307	12"	76.08'	3"	76.10'
OCS-306	12"	75.58'	3"	76.00'

N.T.S.

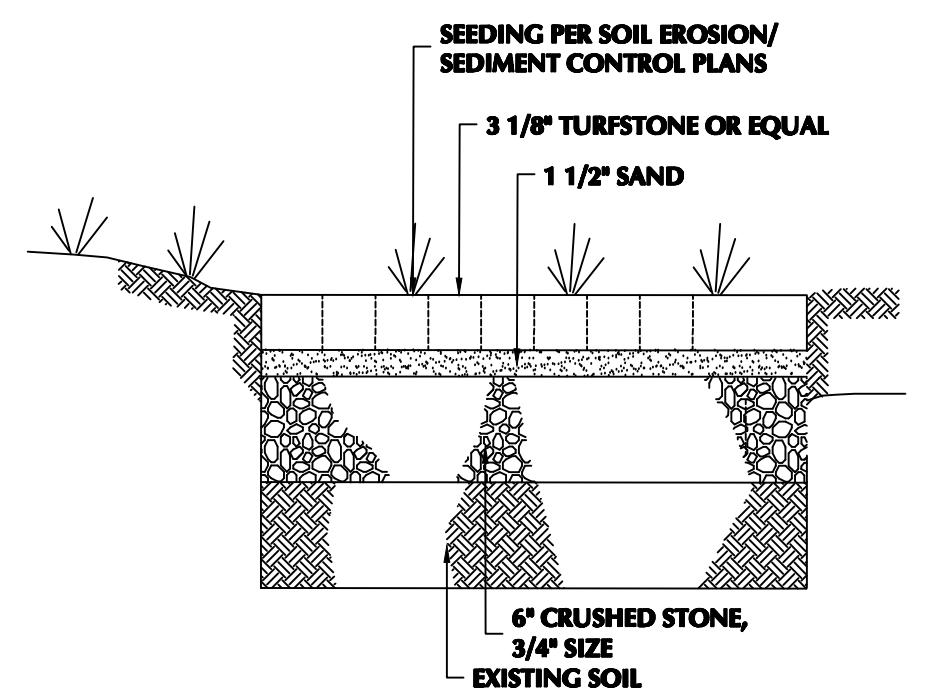
TYPICAL OUTLET STRUCTURE – BIORETENTION BASINS



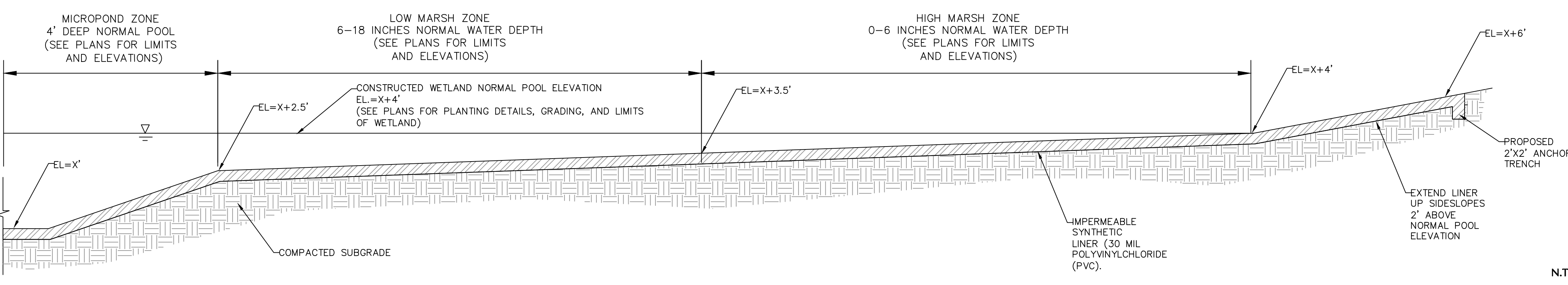
TRASH AND RECYCLING ENCLOSURE DETAIL



BIORETENTION BASIN DETAIL



BASIN ACCESS



CONSTRUCTED WETLAND TYPICAL SECTION

Date	Description	No.
2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1

REVISIONS

Chris Roche
SIGNATURE
CHRISTIAN ROCHE 11/12/2021
PROFESSIONAL ENGINEER NJ Lic. No. 240E04928100

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NJ CERTIFICATE OF AUTHORIZATION No. 246A2798490

Project

BRIDGE POINT 8 INDUSTRIAL PARK

WEST WINDSOR TOWNSHIP
MERCER COUNTY NEW JERSEY

Drawing Title

SITE DETAILS

Project No. 130172801

Date 12/03/2021

Drawn By

Checked By

CS505

N.T.S.