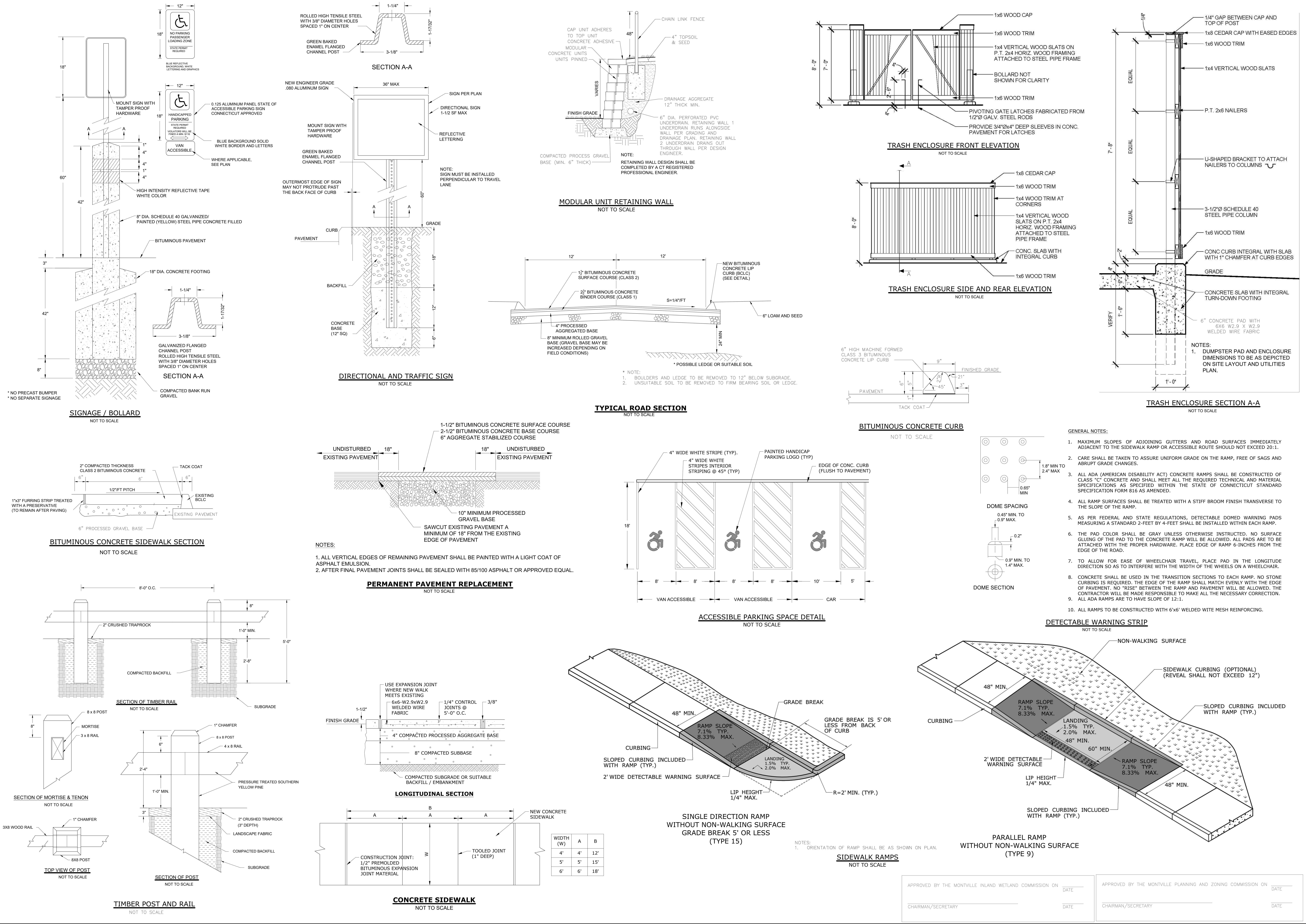


3	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	05/16/2022	SMM	
2	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	03/15/2022	SMM	
1	IWC AND PZC SUBMISSION	11/15/2021	SMM	
REV.	DESCRIPTION OF REVISION	DATE		APPR.

STAMP

Loureiro
Engineering • Construction • EH&S • Energy Waste • Facility Services • Laboratory
Loureiro Engineering Associates, Inc.
100 Northwest Drive • Plainville, Connecticut 06062
Phone: 860-747-6181 • Fax: 860-747-8822
An Employee Owned Company • www.Loureiro.com

SCALE: NOT TO SCALE
COMM. NO.: 88VA9.01
DRAWN BY: BJM — DATE: 3/11/2021
APPROVED BY: PB — DATE: 3/11/2021

DETAILS

VILLAGE APARTMENTS - PHASE III

15 JEROME AVENUE, 82 JEROME ROAD AND 32 ROUTE 32, UNCASVILLE - MONTVILLE, CT

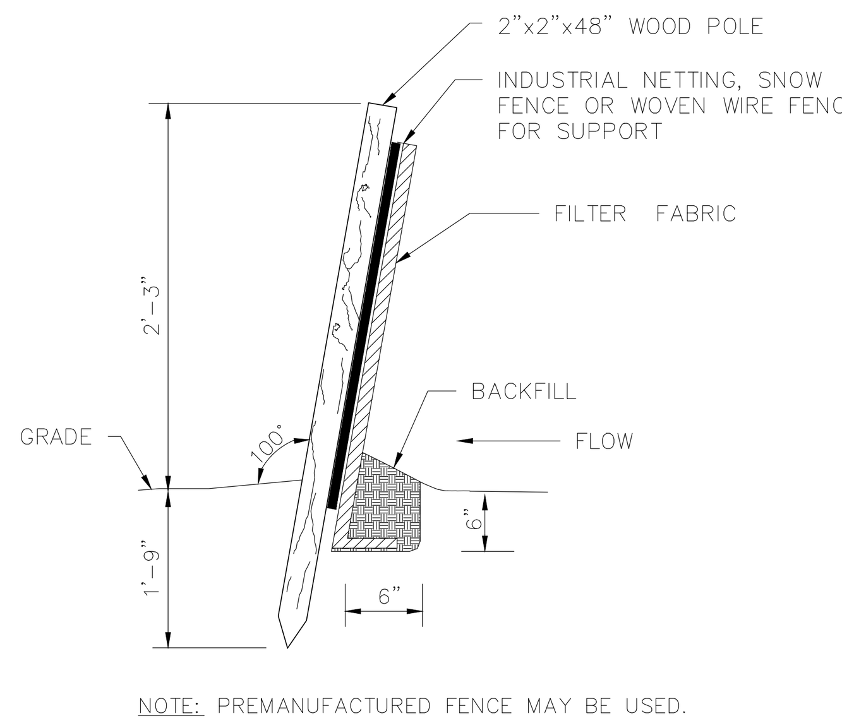
PREPARED FOR:

VILLAGE APARTMENTS LLC AND CONNECTICUT MULTIFAMILY EQUITIES II, LLC

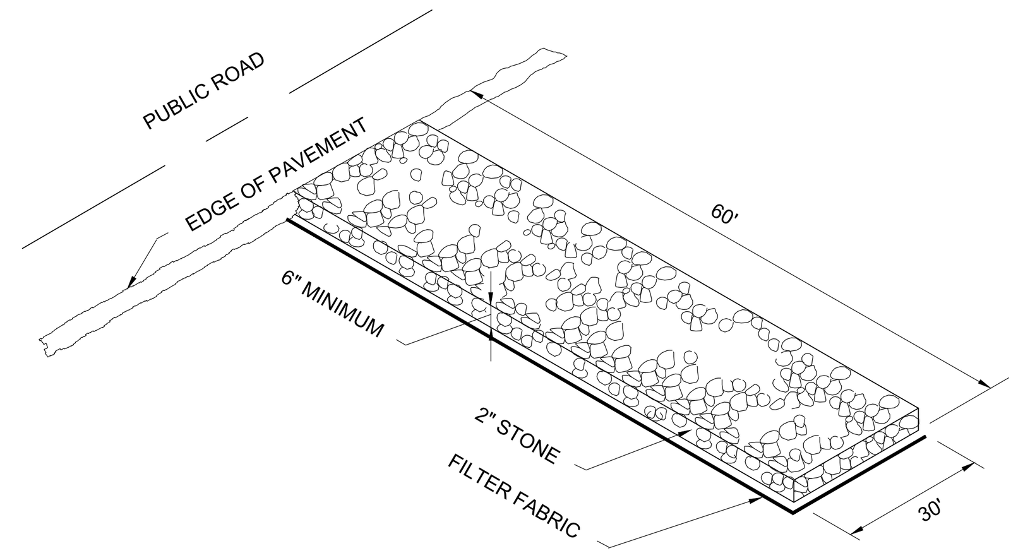
1099 NORTH STREET, WHITE PLAINS, NY

DRAWING 19000079.10

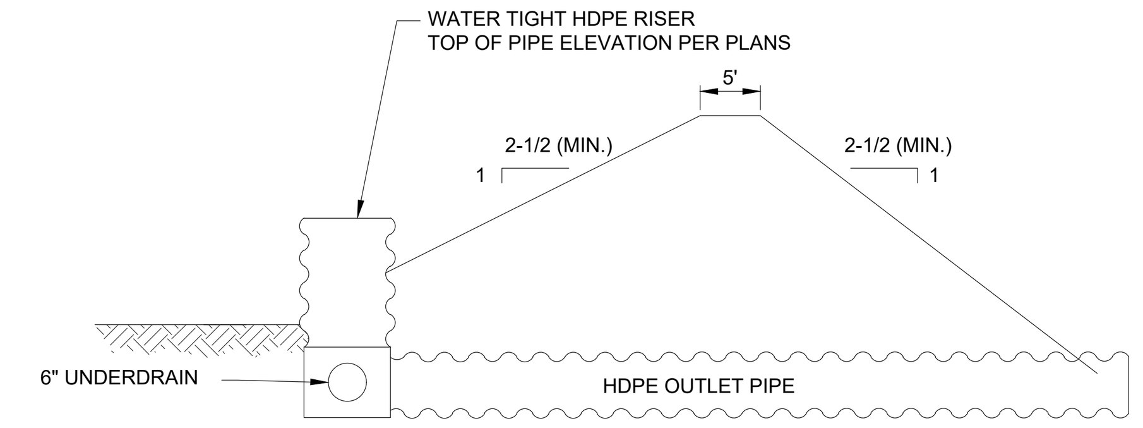
SHEET NO. 11 — NO. OF SHEETS 14



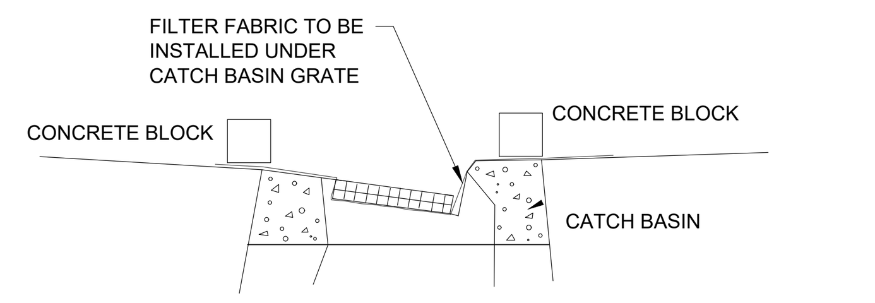
SEDIMENT FENCE
NOT TO SCALE



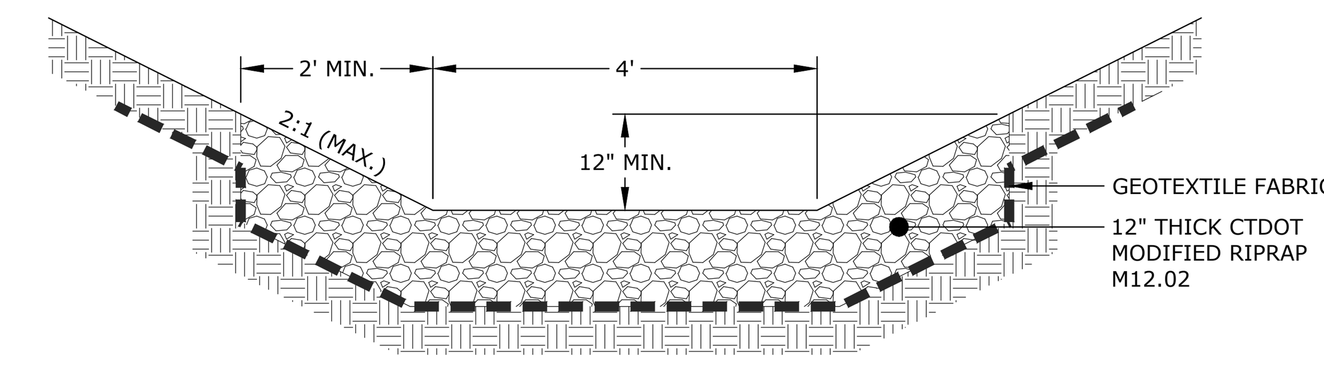
TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE



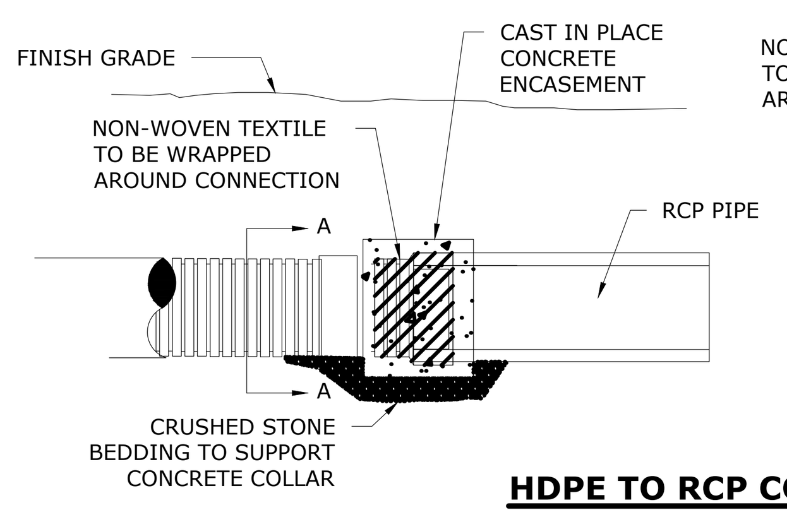
TEMPORARY OUTLET RISER
NOT TO SCALE



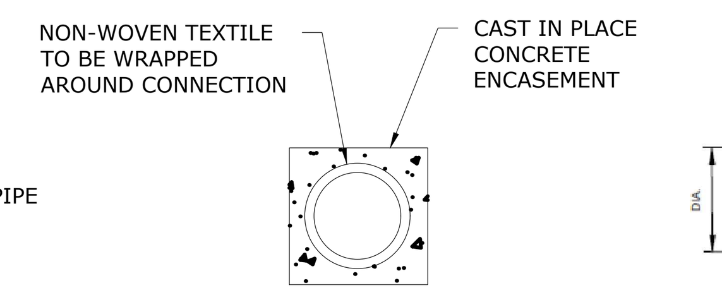
SILTATION FABRIC INSTALLATION AT CATCH BASIN
NOT TO SCALE



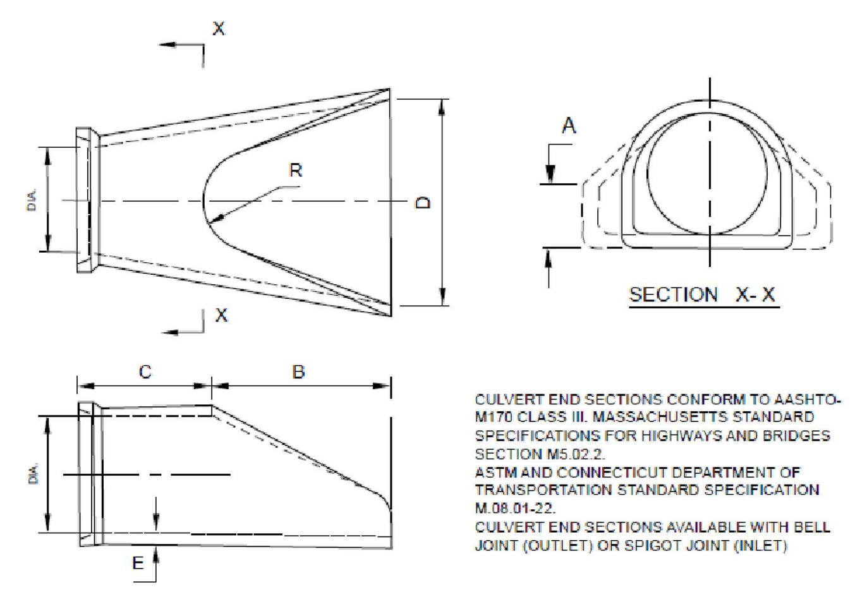
RIP-RAP SWALE
NOT TO SCALE



HDPE TO RCP CONNECTION (GEOTEXTILE WRAP)
NOT TO SCALE

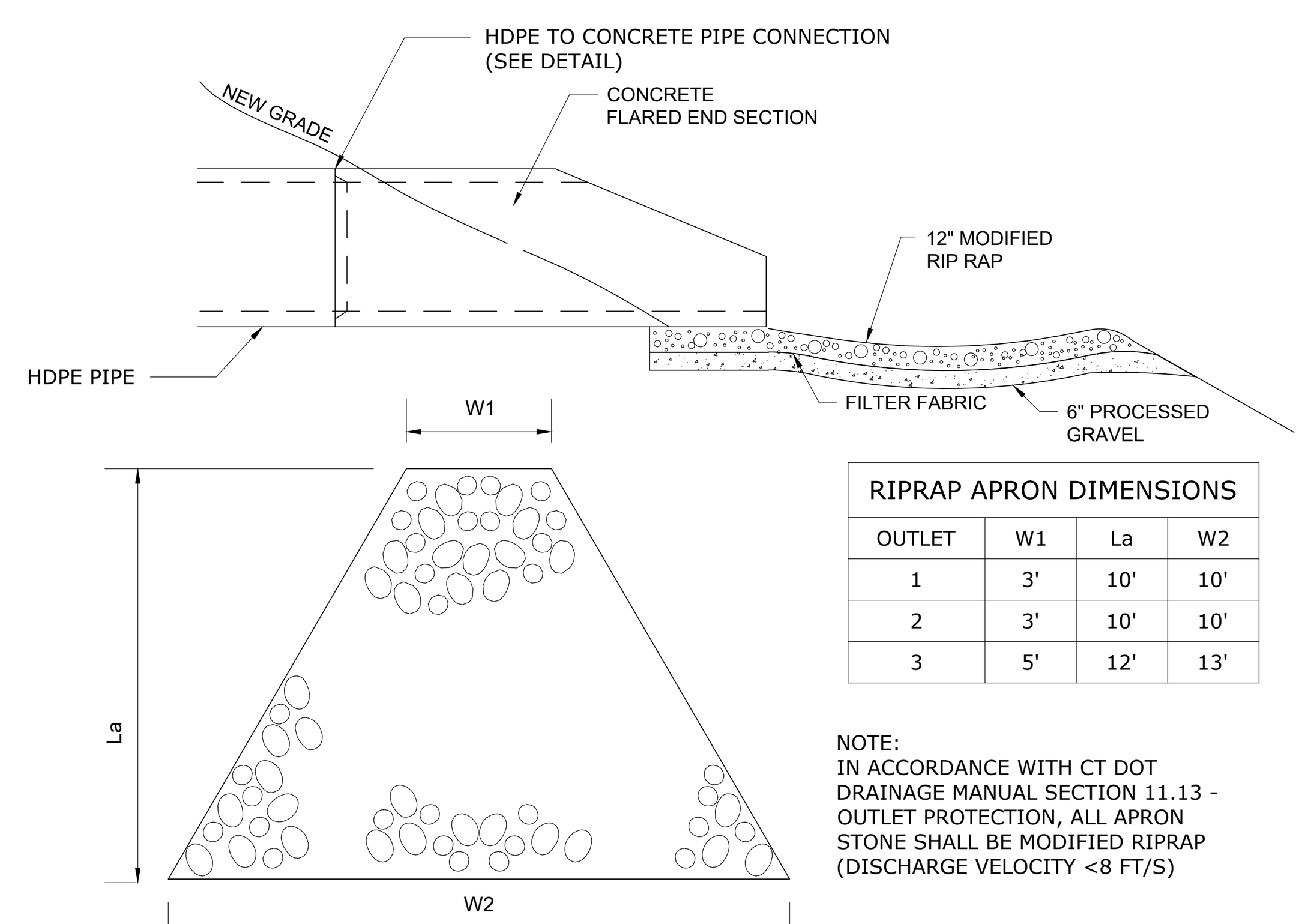


SECTION A-A
NOT TO SCALE



DIA	A	B	C	D	E	R
12"	4"	2'-0"	4'-0 7/8"	2'-0"	3"	9"
15"	6"	2'-3"	3'-10"	2'-6"	3"	11"
18"	9"	2'-3"	3'-10"	3'-0"	3"	12"
24"	9 1/2"	3'-7 1/2"	2'-6"	4'-0"	3"	14"
30"	12"	4'-6"	1'-7 3/4"	5'-0"	3 1/2"	15"
36"	15"	5'-3"	2'-10 3/4"	6'-0"	4"	20"
42"	21"	5'-3"	2'-11"	6'-6"	4 1/2"	22"
48"	24"	6'-0"	2'-2"	7'-0"	5"	22"
54"	27"	5'-5"	2'-11"	7'-6"	5 1/2"	24"
60"	30"	5'-0"	3'-3"	8'-0"	6"	24"

REINFORCED CONCRETE CULVERT ENDS
NOT TO SCALE

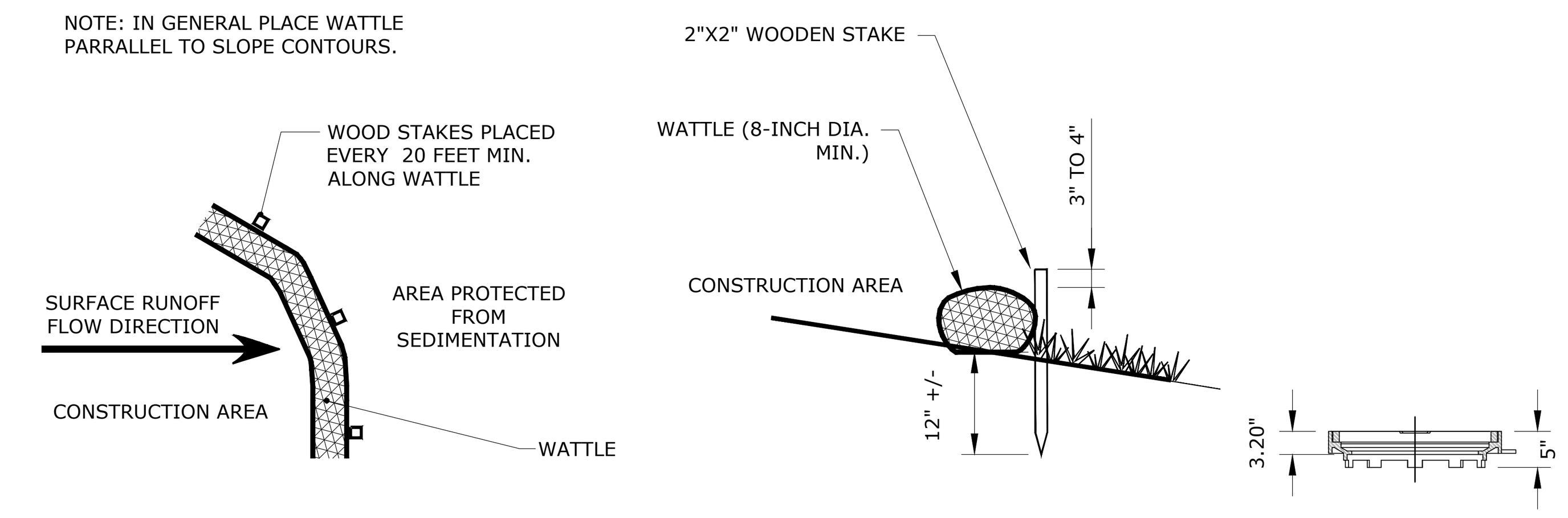


RIPRAP APRON DIMENSIONS

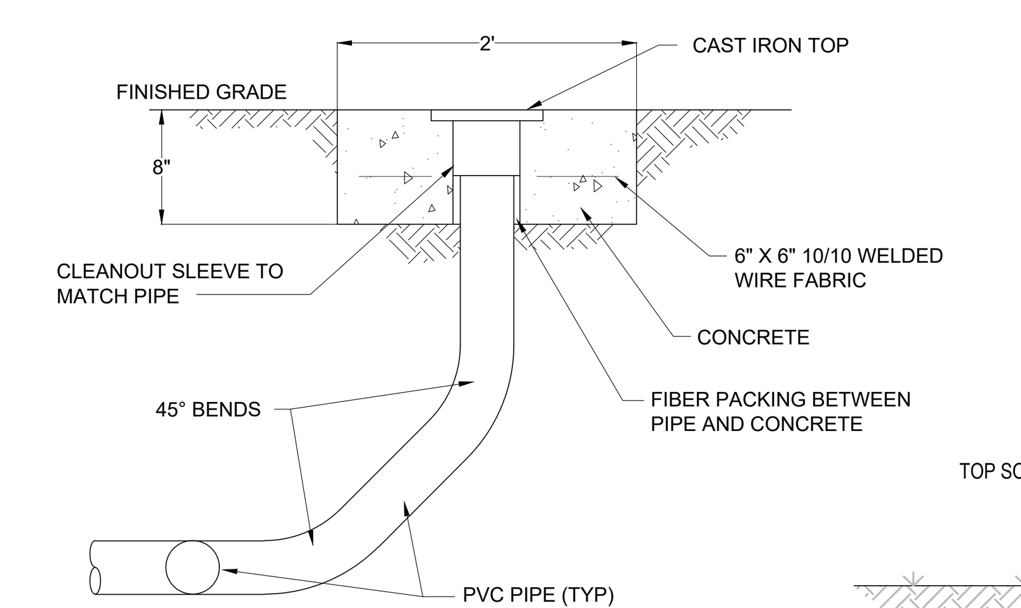
OUTLET	W1	La	W2
1	3'	10'	10'
2	3'	10'	10'
3	5'	12'	13'

NOTE:
IN ACCORDANCE WITH CT DOT DRAINAGE MANUAL SECTION 11.13 - OUTLET PROTECTION, ALL APRON STONE SHALL BE MODIFIED RIPRAP (DISCHARGE VELOCITY <8 FT/S)

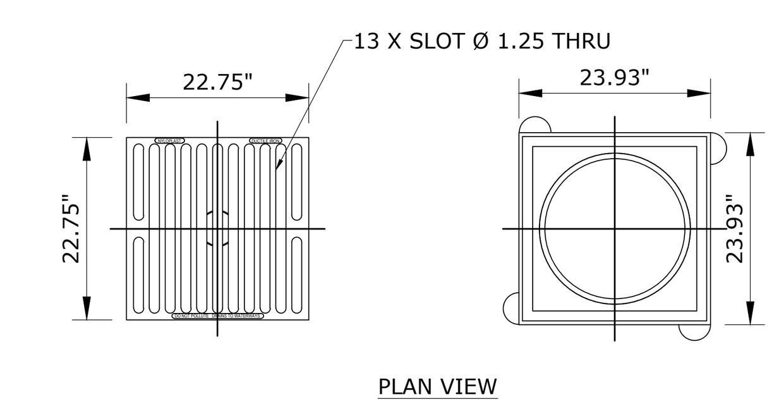
RIPRAP APRON
NOT TO SCALE



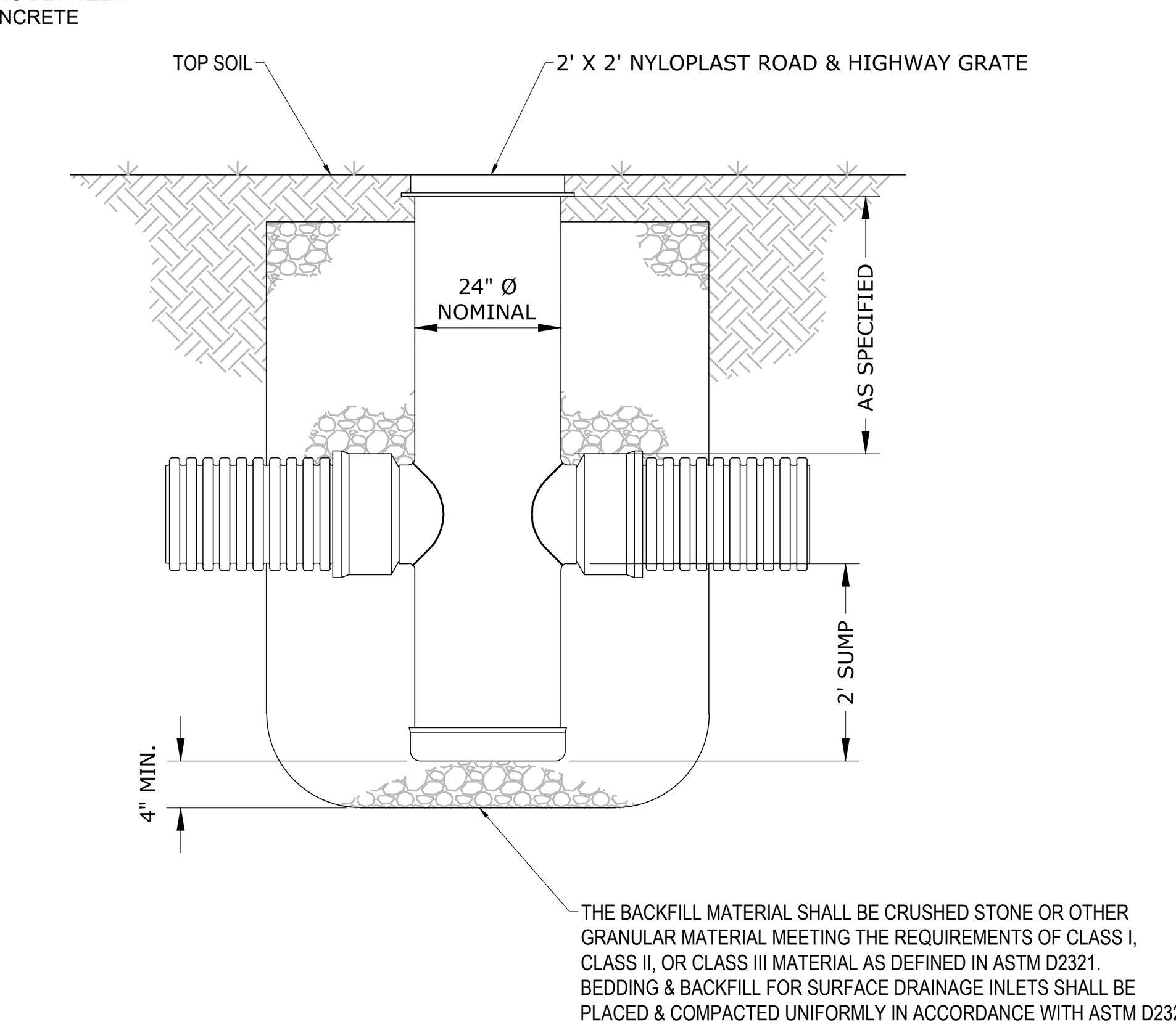
COMPOST WATTLE TYP.
NOT TO SCALE



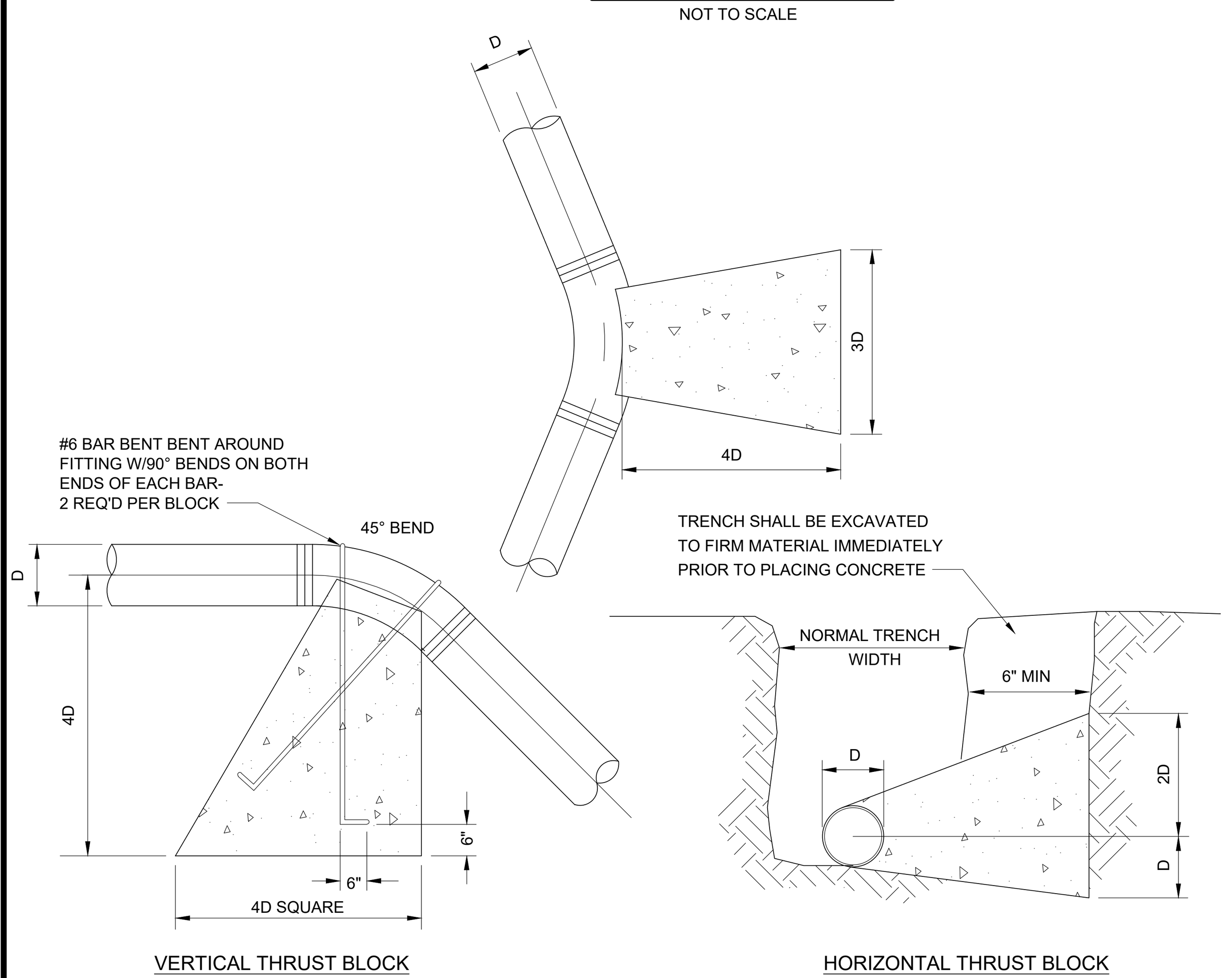
SEWER CLEANOUT DETAIL
NOT TO SCALE



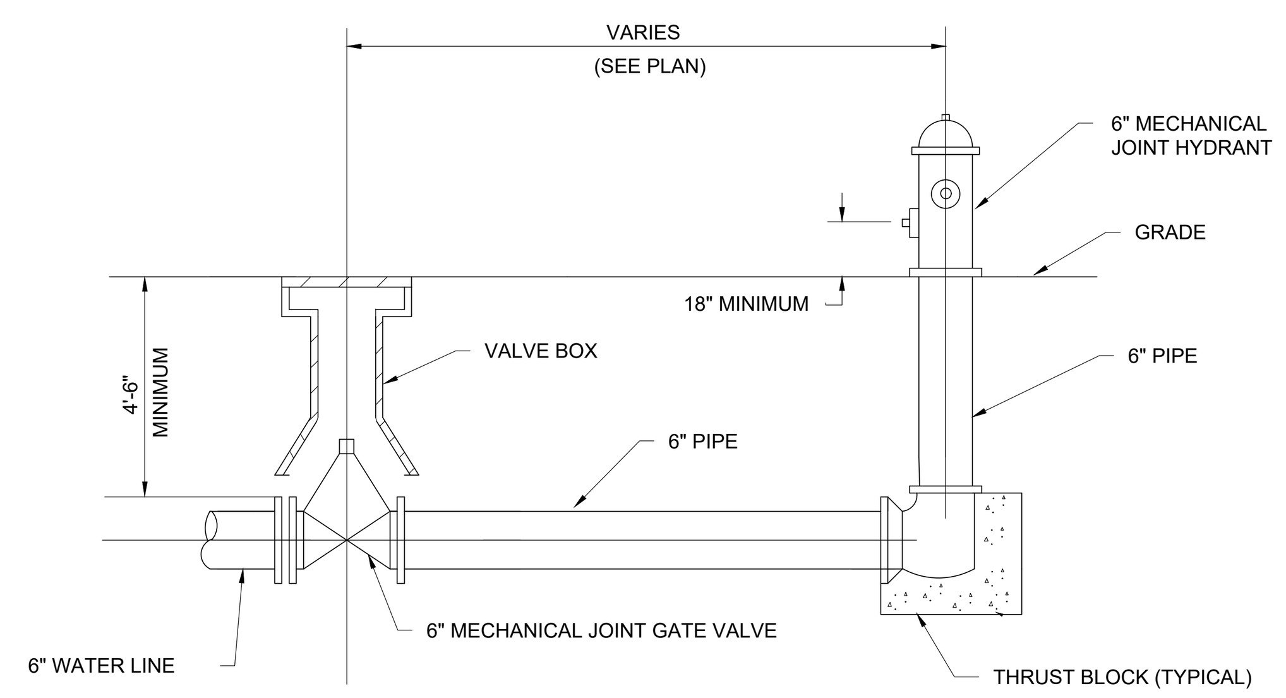
2' X 2' NYLOPLAST ROAD & HIGHWAY GRATE
NOT TO SCALE



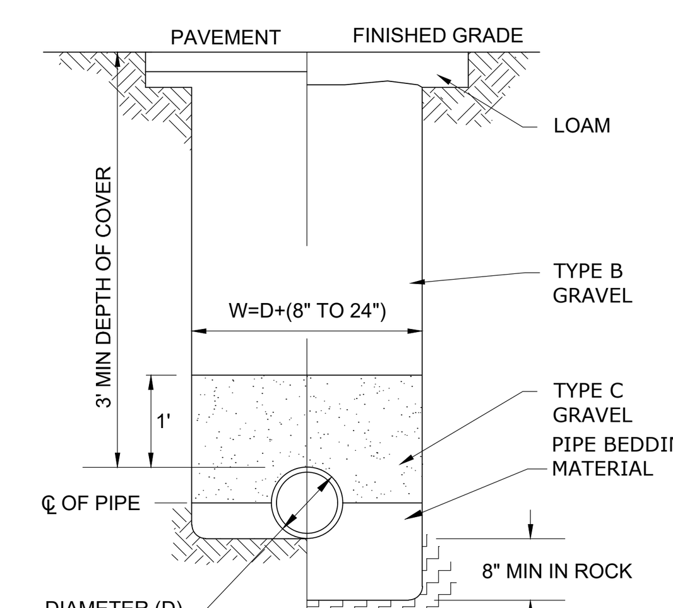
NYLOPLAST DRAIN BASIN
NOT TO SCALE



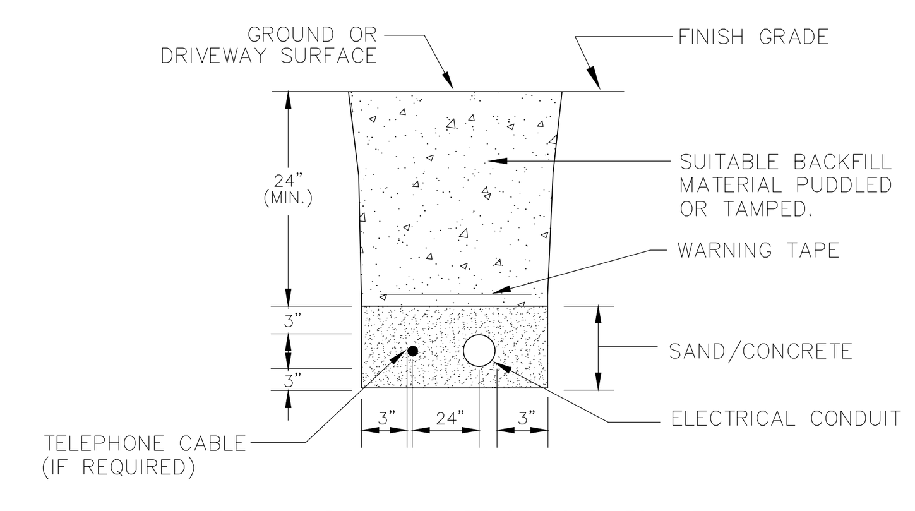
CONCRETE THRUST BLOCKING
NOT TO SCALE



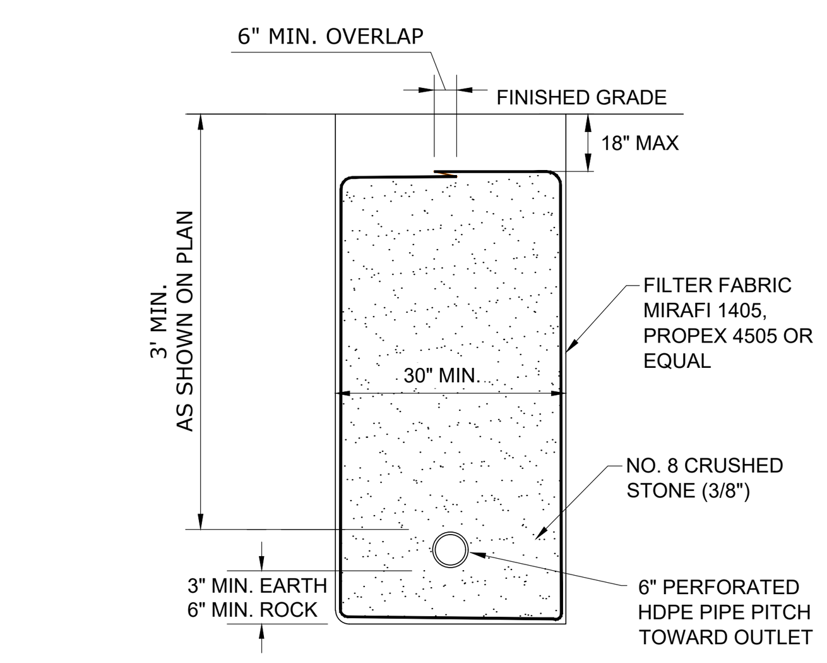
TYPICAL HYDRANT INSTALLATION
NOT TO SCALE



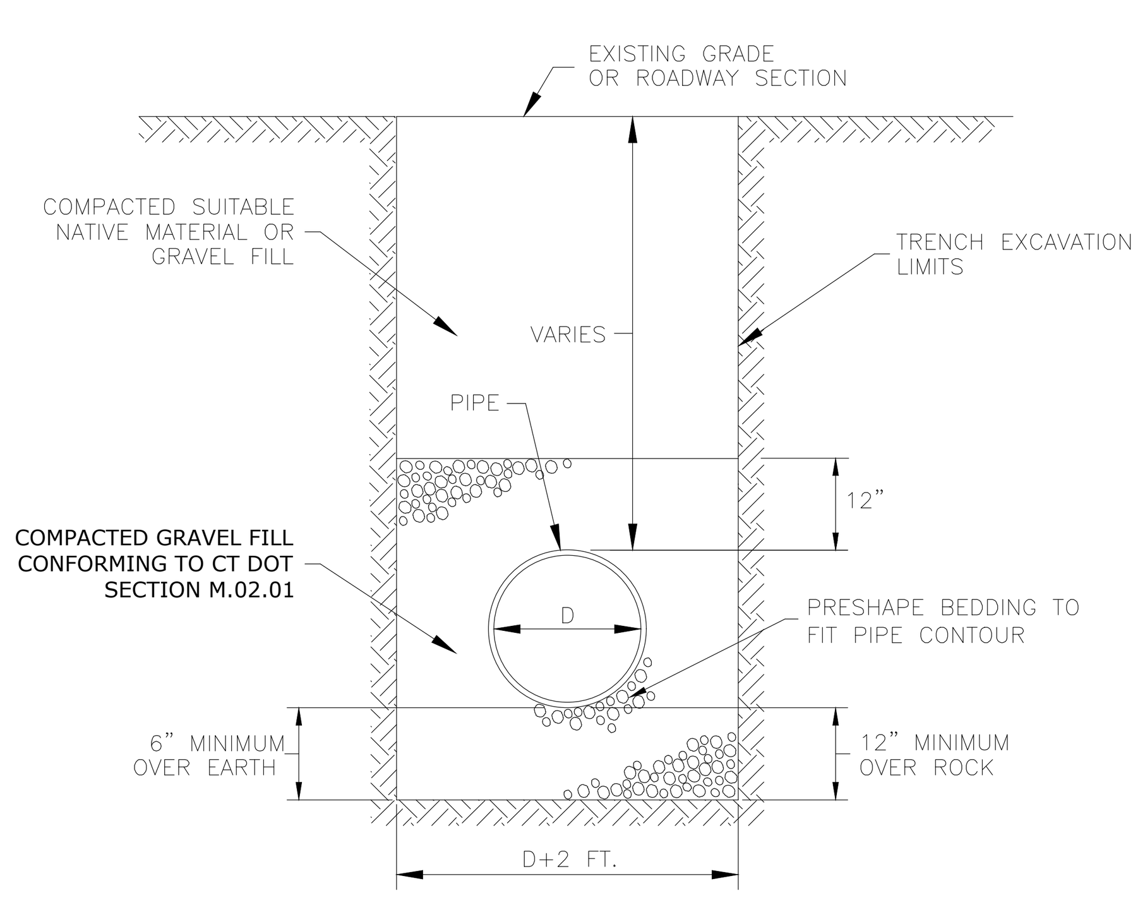
WATER LINE TRENCH
NOT TO SCALE



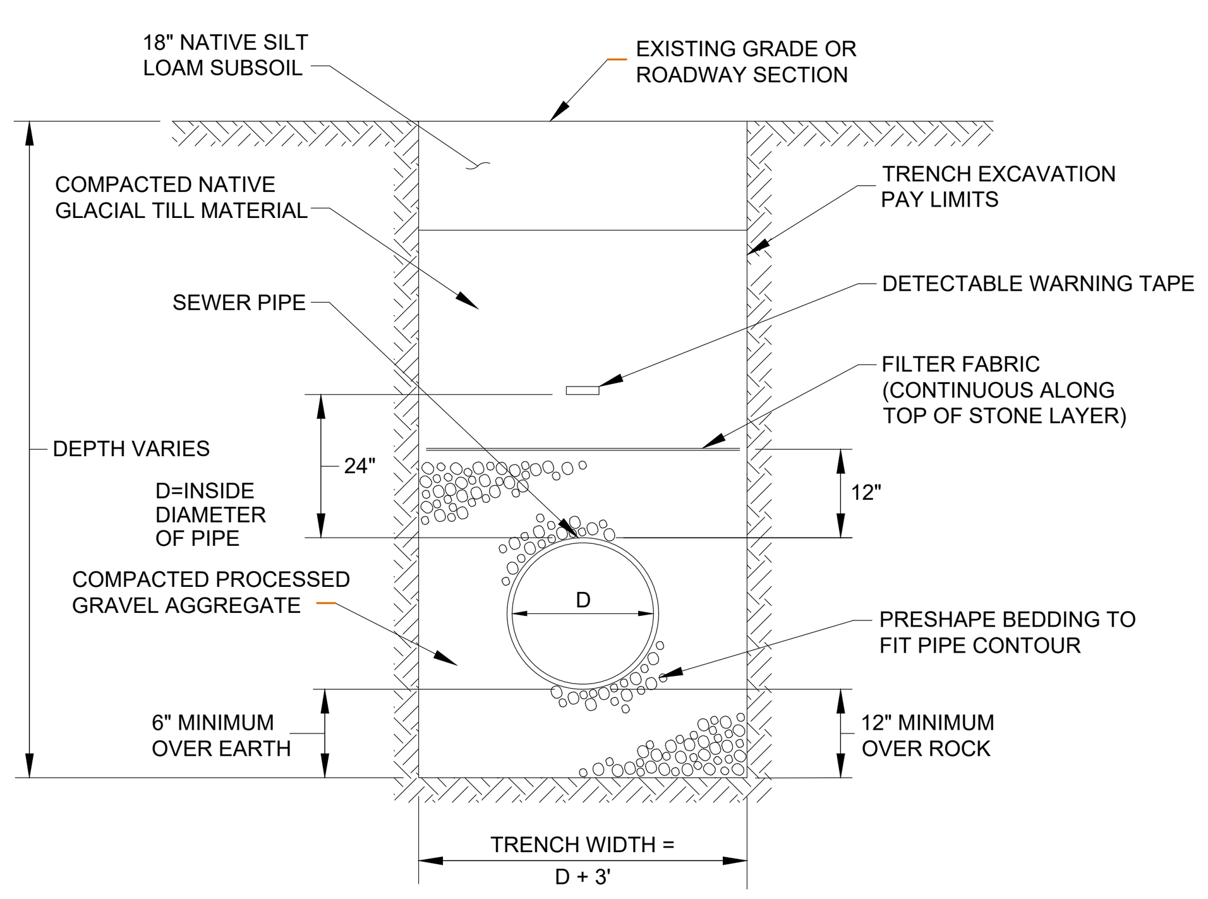
ELECTRICAL LINE TRENCH
NOT TO SCALE



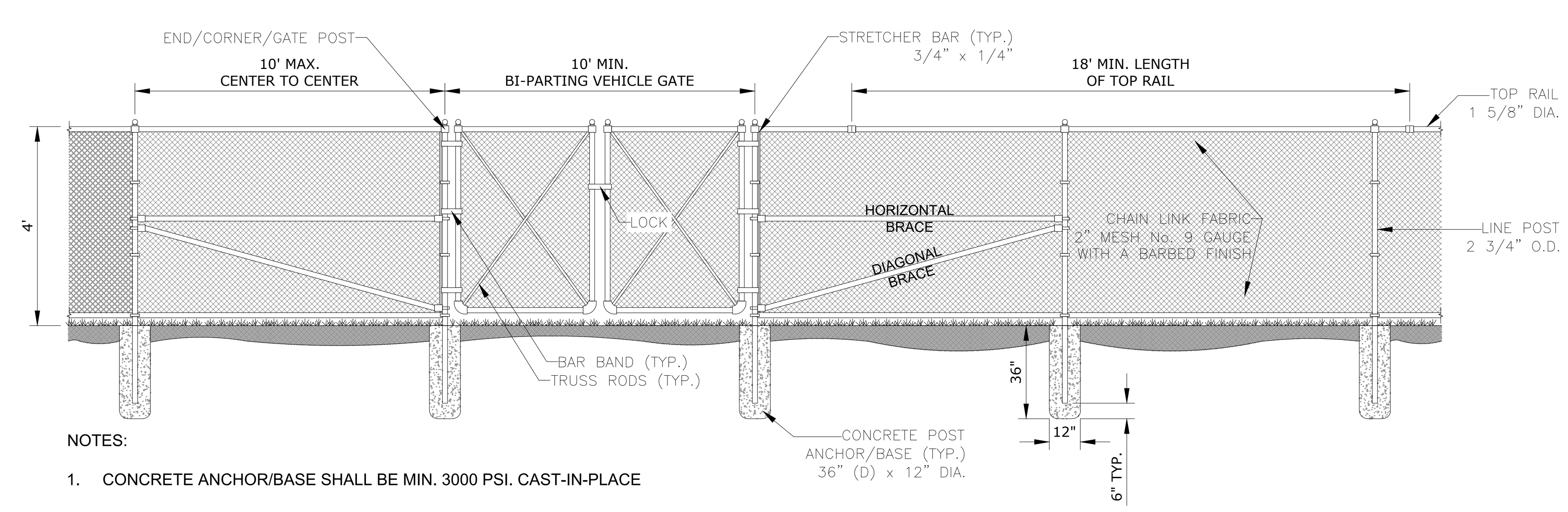
UNDER DRAIN
NOT TO SCALE



STORM DRAIN TRENCH
NOT TO SCALE



SANITARY SEWER TRENCH
NOT TO SCALE



NOTES:

1. CONCRETE ANCHOR/BASE SHALL BE MIN. 3000 PSI. CAST-IN-PLACE
2. PROVIDE HORIZONTAL AND DIAGONAL BRACING AT ALL CORNERS, PULL, TERMINAL AND GATE POSTS.
3. POST SHALL BE SPACE AT A MAXIMUM OF 10'-0'.

CHAIN LINK FENCE
NOT TO SCALE

APPROVED BY THE MONTVILLE INLAND WETLAND COMMISSION ON ______ DATE
CHAIRMAN/SECRETARY ______ DATE

APPROVED BY THE MONTVILLE PLANNING AND ZONING COMMISSION ON ______ DATE
CHAIRMAN/SECRETARY ______ DATE

REV.	DESCRIPTION OF REVISION	DATE	APPR.
3	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	05/16/2022	SMM
2	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	03/15/2022	SMM
1	IWC AND PZC SUBMISSION	11/15/2021	SMM

STAMP

Loureiro
Engineering • Construction • EH&S • Energy
Waste • Facility Services • Laboratory
Loureiro Engineering Associates, Inc.
100 Fort Hill Road • Groton, Connecticut 06340
Phone: 860-448-0400 • Fax: 860-448-0899
An Employee Owned Company • www.Loureiro.com

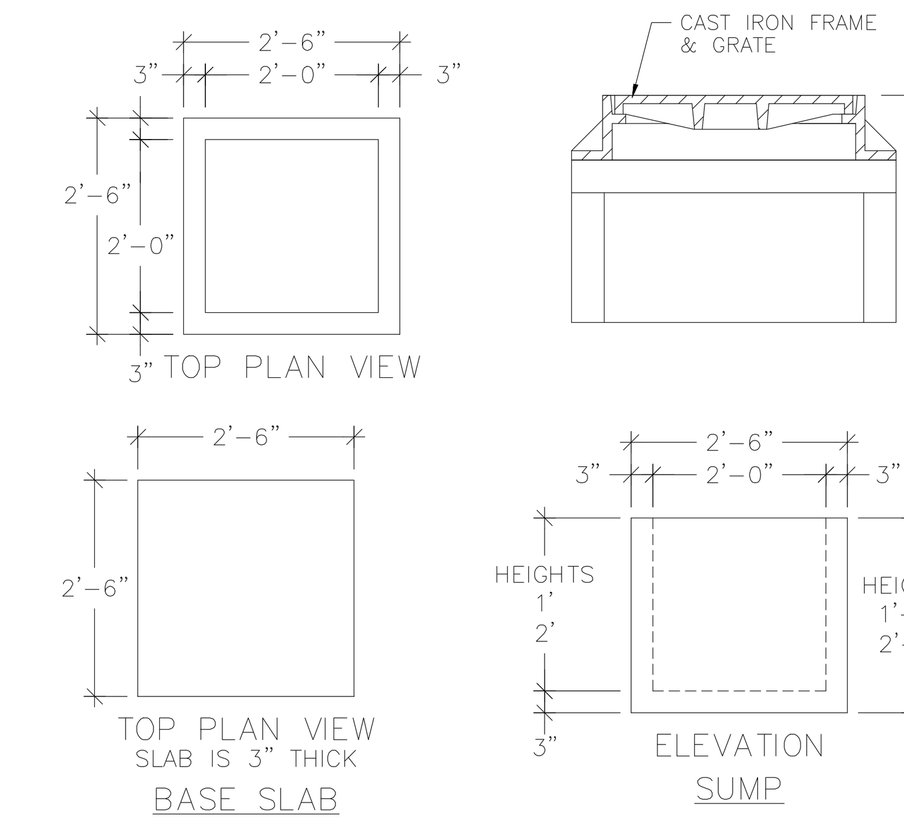
SCALE: NOT TO SCALE
COMM. NO. 88VA9.01
DRAWN BY: BJM — DATE: 3/11/2021
APPROVED BY: PB — DATE: 3/11/2021

DETAILS

VILLAGE APARTMENTS - PHASE III
15 JEROME AVENUE, 82 JEROME ROAD AND 232 ROUTE 32, UNCASVILLE - MONTVILLE, CT
PREPARED FOR:
VILLAGE APARTMENTS LLC AND CONNECTICUT MULTIFAMILY EQUITIES II, LLC
1099 NORTH STREET, WHITE PLAINS, NY

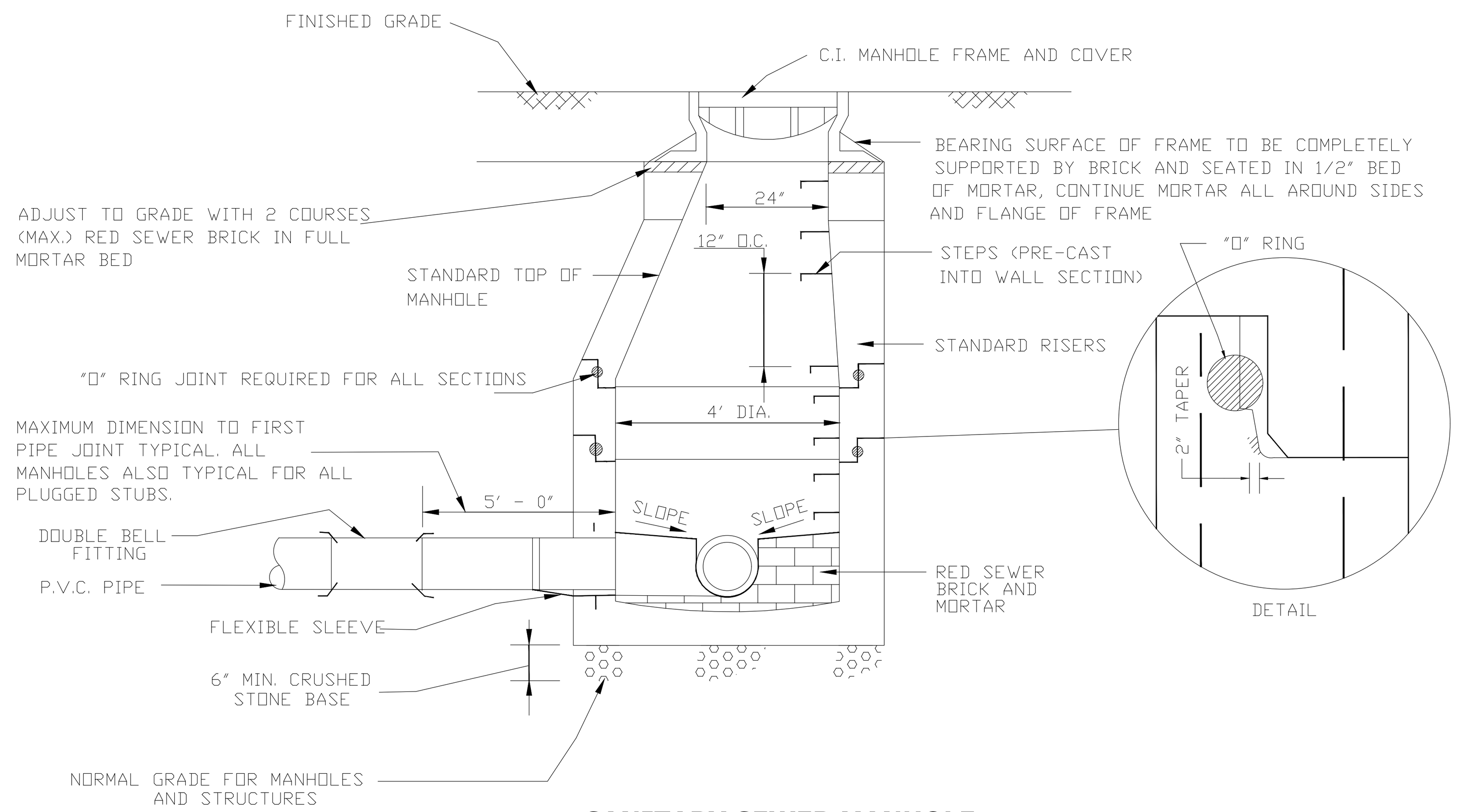
DRAWING
19000079.11
SHEET NO. 12 — NO. OF SHEETS 14

V:\CT\MONTVILLE\JEROME RD-00\E&S PHASE III\DWGS\DETAILS.DWG Tab: DETAILS 2 Saved: 5/16/2022 1:39 PM Plotted: 5/16/2022 1:40 PM

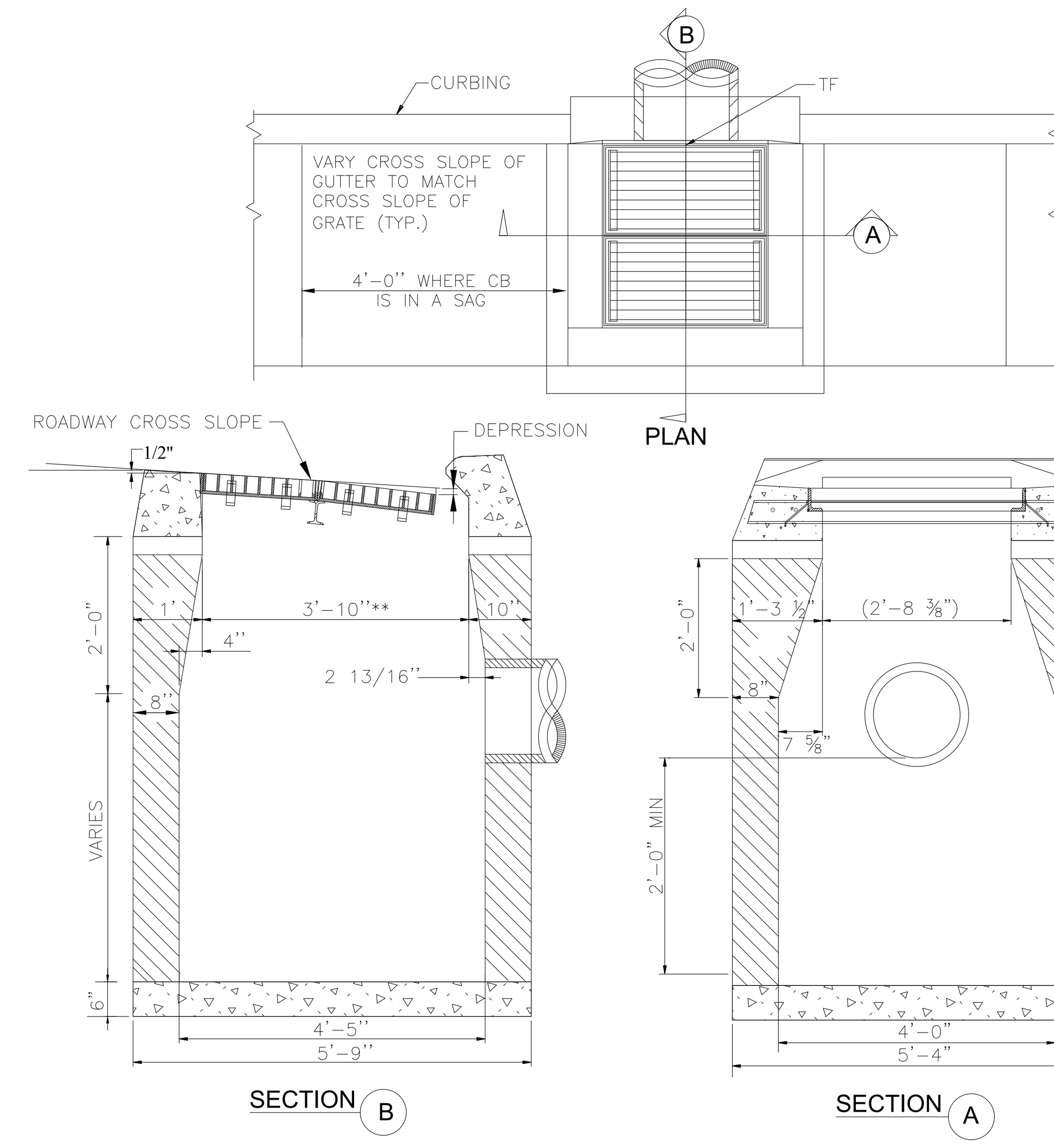


NOTES:
1. REINFORCING STEEL WELDED WIRE FABRIC CONFORMS TO LATEST ASTM SPECIFICATION A185.
2. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
3. CONCRETE COMPRESSIVE STRENGTH – 4000 PSI AT 28 DAYS.
4. METHOD OF MANUFACTURE: WET CAST.
5. SECTION IS MONOLITHIC.
6. DESIGN LOAD: AASHTO H-20

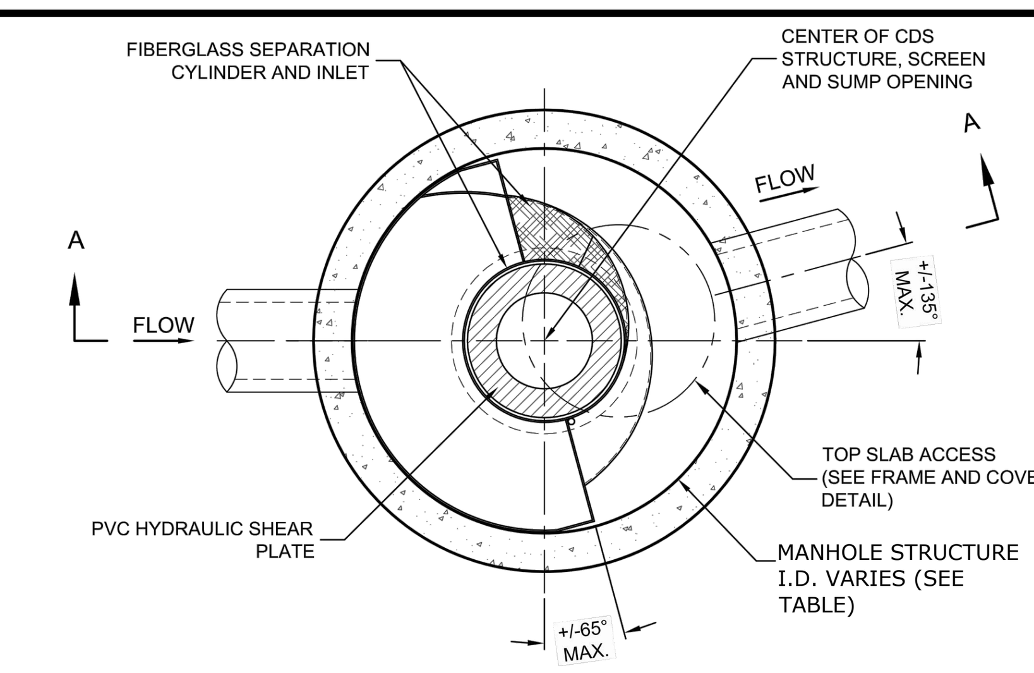
YARD DRAIN DETAIL
NOT TO SCALE



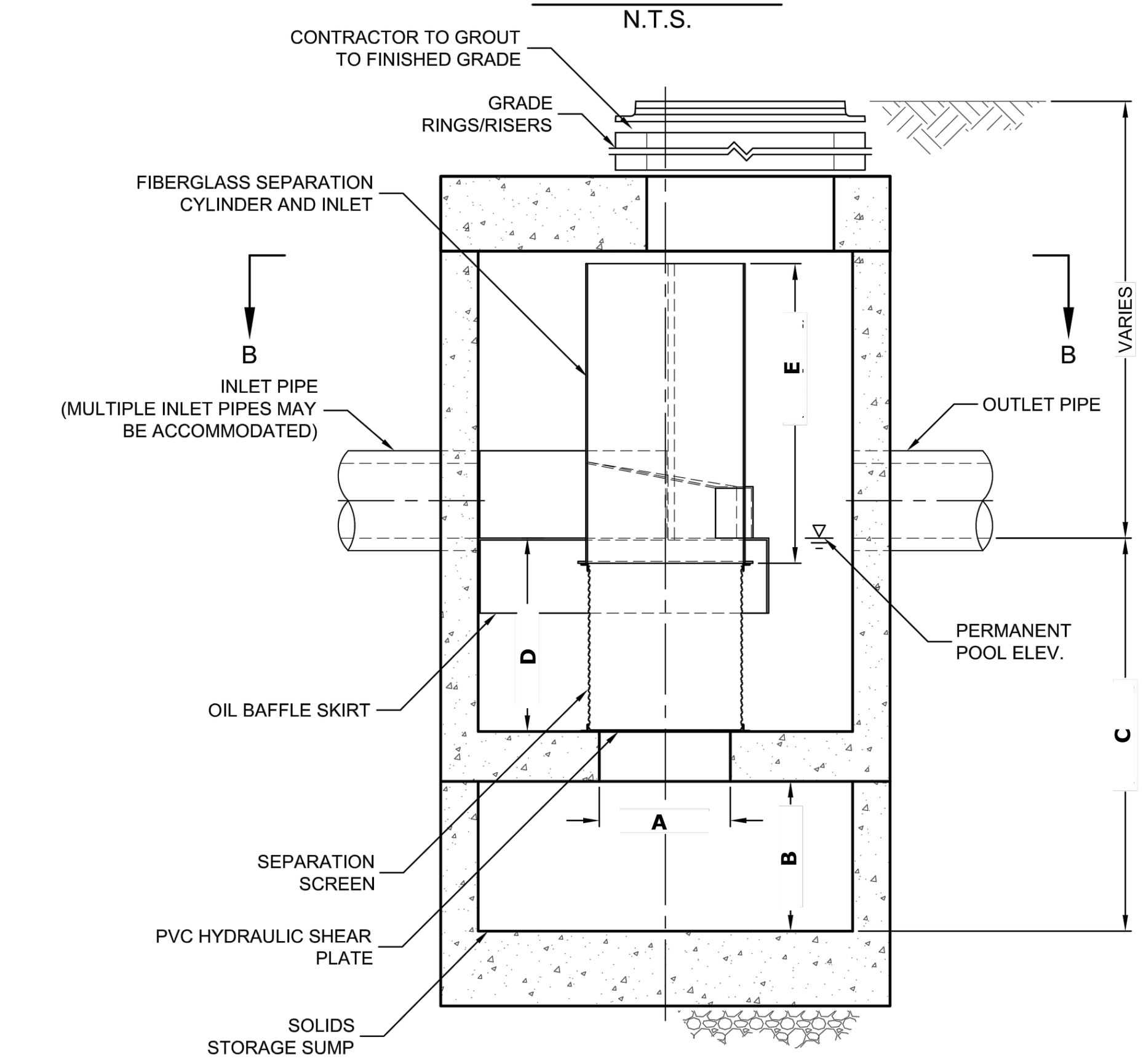
SANITARY SEWER MANHOLE
NOT TO SCALE



TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I
NOT TO SCALE



PLAN VIEW B-B
N.T.S.



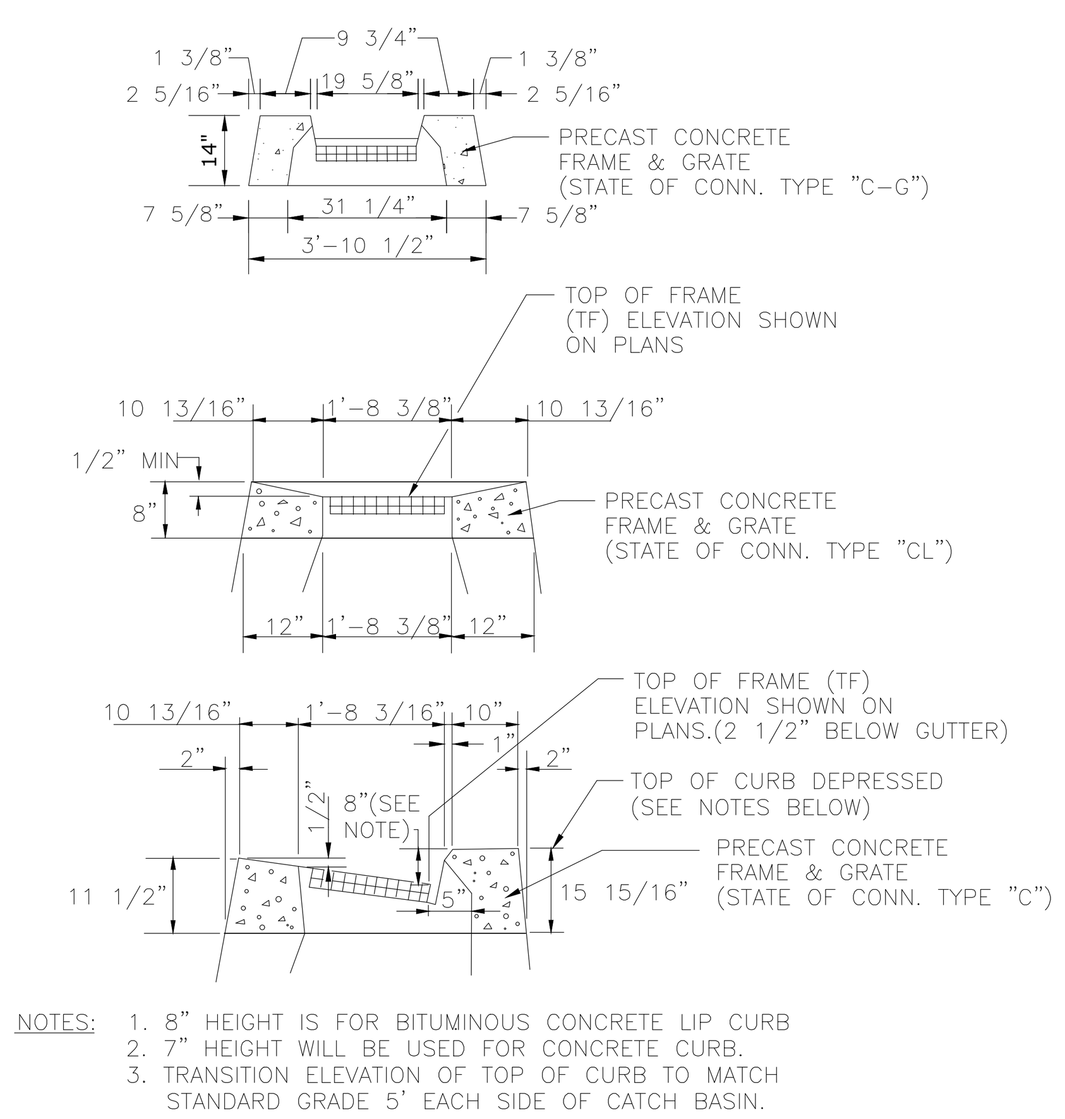
ELEVATION A-A
N.T.S.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

INLINE CDS STRUCTURE TABLE

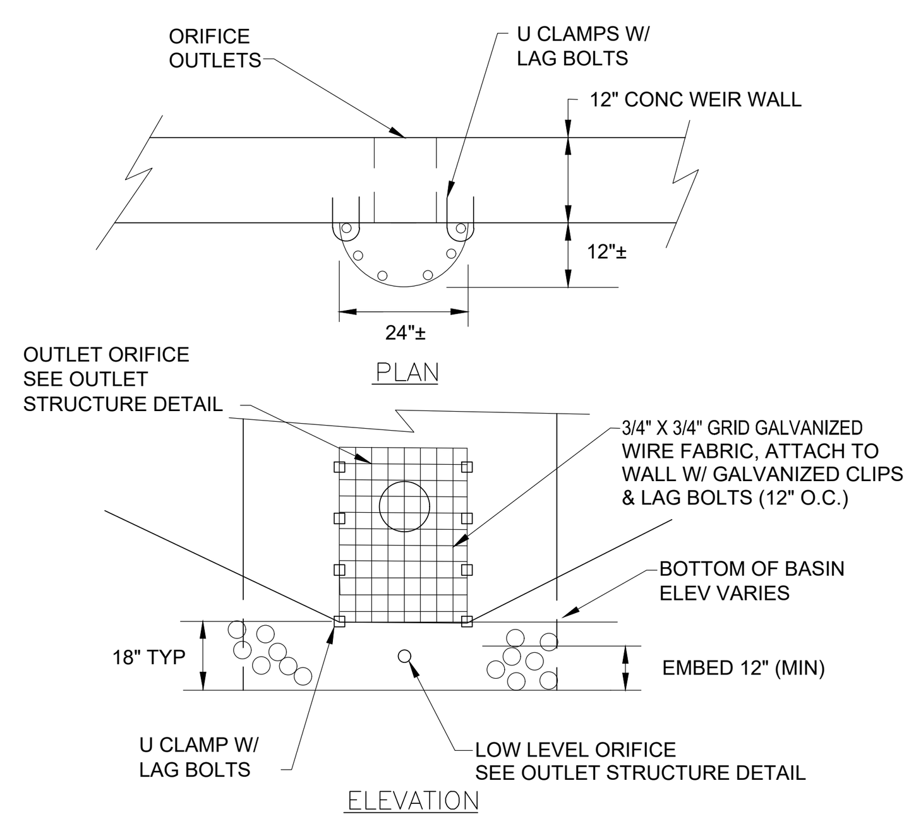
STRUCTURE ID	SYSTEM MODEL	MANHOLE I.D.	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'	DIMENSION 'D'	DIMENSION 'E'
CDS1, CDS4	CDS2020-5-C	60"	1' - 9"	2' - 0"	5' - 3"	2' - 7"	4' - 0"
CDS2, CDS3	CDS1515-3-C	36"	1' - 4"	2' - 0"	4' - 2"	1' - 8"	4' - 0"
CDS5	CDS3035-6-C	72"	1' - 9"	2' - 0"	6' - 9"	4' - 1"	4' - 0"
CDS6	CDS2015-4-C	48"	1' - 9"	2' - 0"	4' - 6"	2' - 0"	4' - 0"

INLINE CDS STANDARD DETAIL
NOT TO SCALE

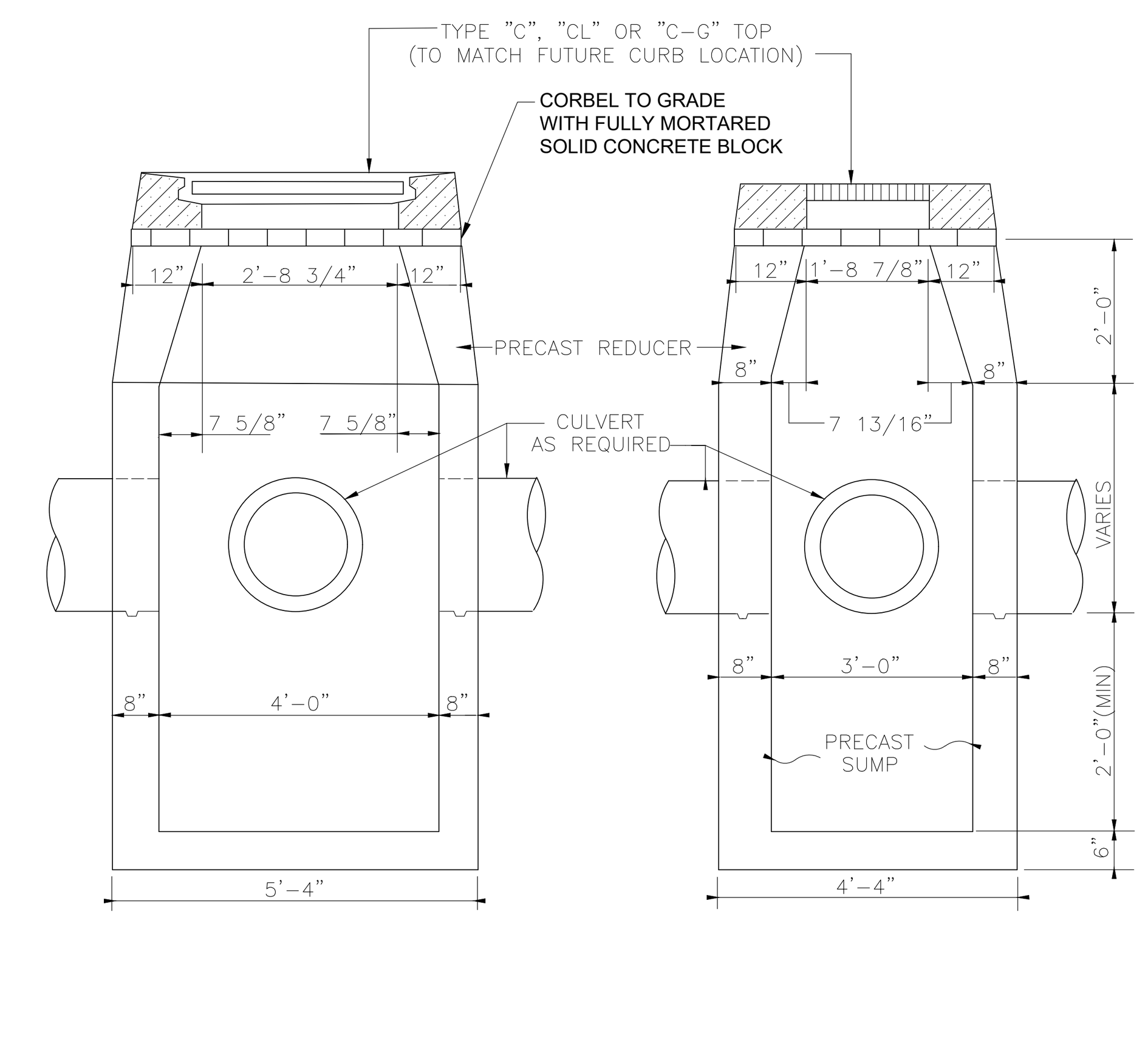


NOTES:
1. 8" HEIGHT IS FOR BITUMINOUS CONCRETE LIP CURB
2. 7" HEIGHT WILL BE USED FOR CONCRETE CURB.
3. TRANSITION ELEVATION OF TOP OF CURB TO MATCH STANDARD GRADE 5" EACH SIDE OF CATCH BASIN.

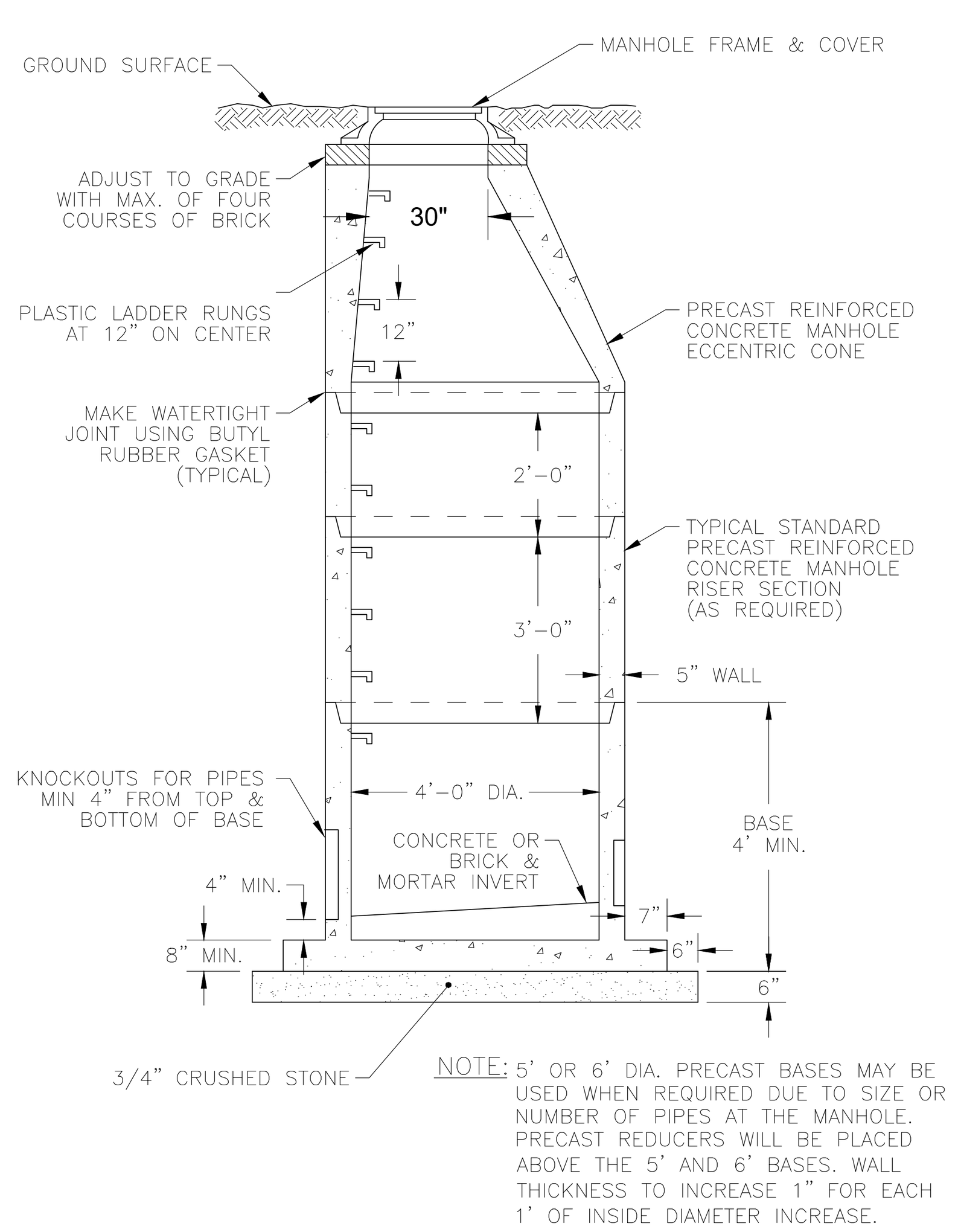
FRAME AND GRATE FOR TYPE "C", "CL" OR "C-G" CATCH BASIN
NOT TO SCALE



OUTLET TRASH RACK
NOT TO SCALE

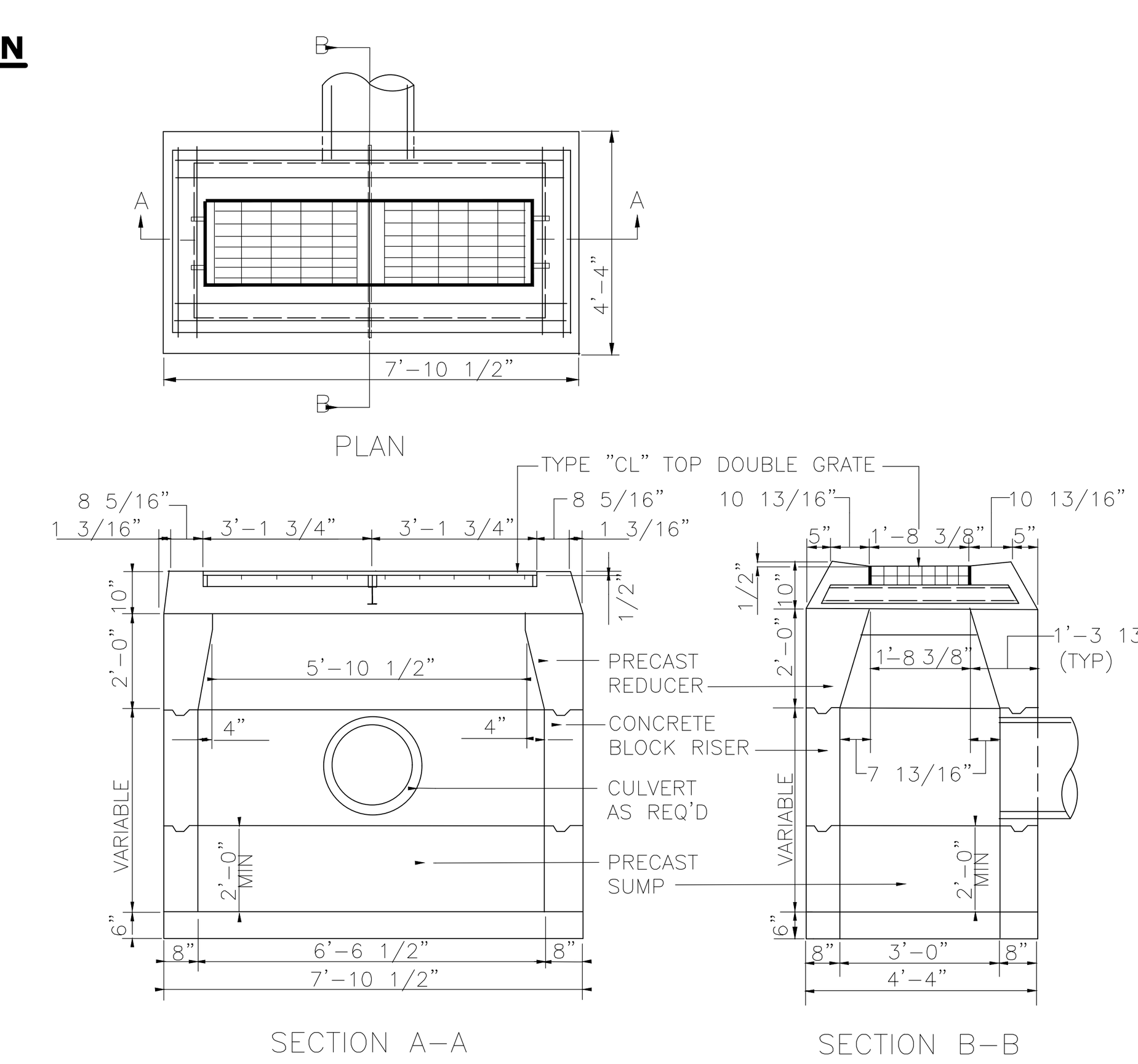


TYPE "C", "CL" OR "C-G" CATCH BASIN WITH SUMP
NOT TO SCALE



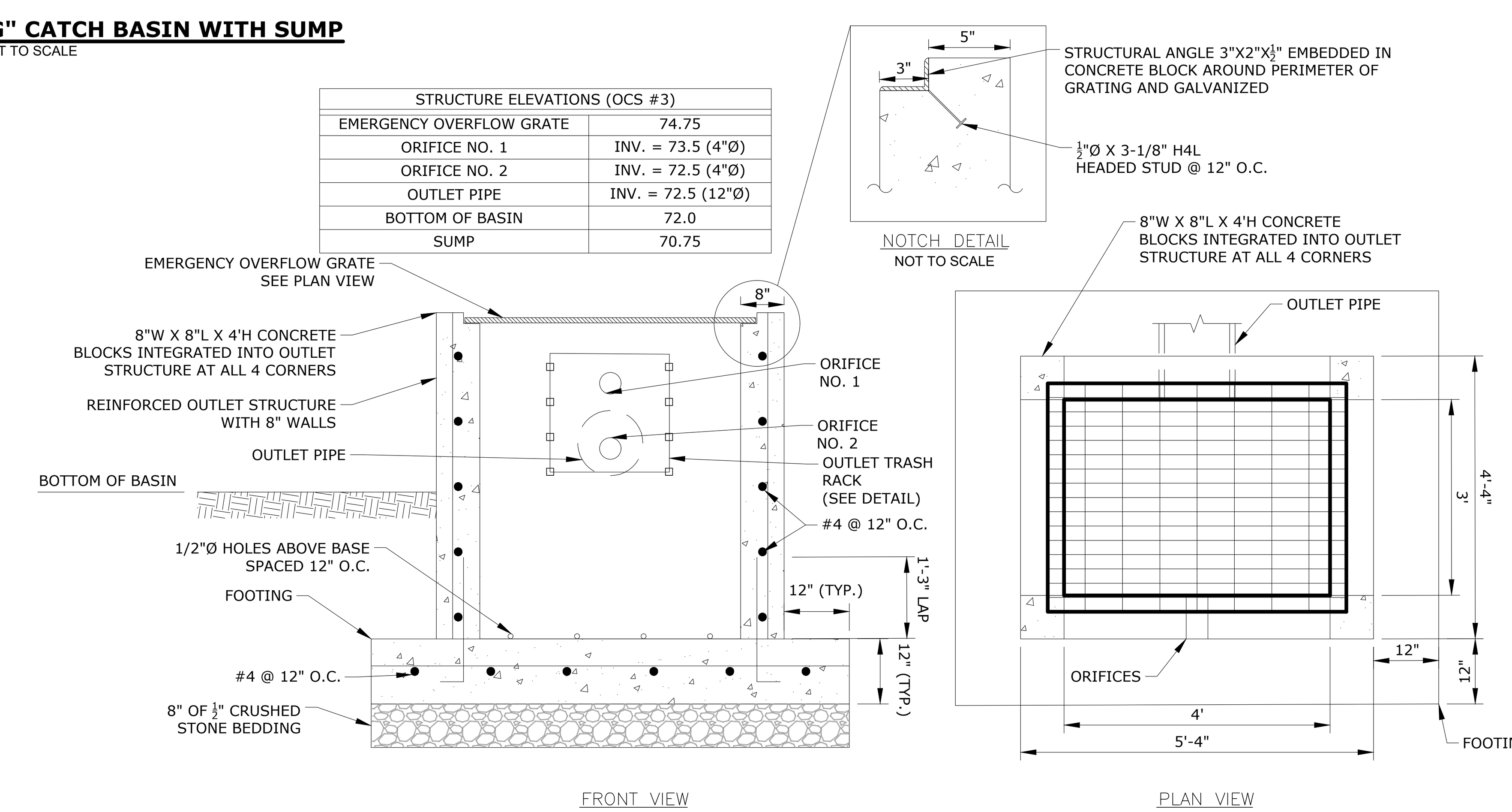
NOTE: 5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' AND 6' BASES. WALL THICKNESS TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.

PRECAST CONCRETE DRAINAGE MANHOLE
NOT TO SCALE

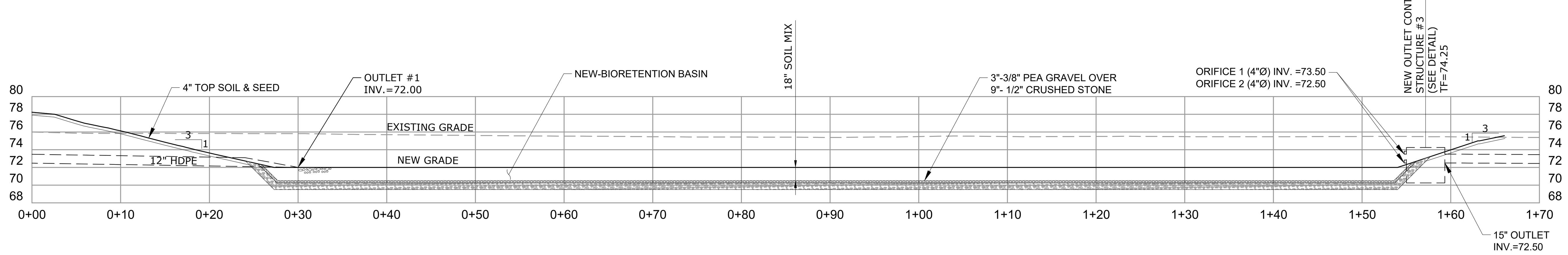


TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II
NOT TO SCALE

STRUCTURE ELEVATIONS (OCS #3)	
EMERGENCY OVERFLOW GRATE	74.75
ORIFICE NO. 1	INV. = 73.5 (4"Ø)
ORIFICE NO. 2	INV. = 72.5 (4"Ø)
OUTLET PIPE	INV. = 72.5 (12"Ø)
BOTTOM OF BASIN	72.0
SUMP	70.75



BIORETENTION BASIN OUTLET STRUCTURE (OCS #3)
NOT TO SCALE



SECTION A-A': BIORETENTION BASIN
SCALE: 1"=10'

APPROVED BY THE MONTVILLE INLAND WETLAND COMMISSION ON ________ DATE
CHAIRMAN/SECRETARY ________ DATE

APPROVED BY THE MONTVILLE PLANNING AND ZONING COMMISSION ON ________ DATE
CHAIRMAN/SECRETARY ________ DATE

REV.	DESCRIPTION OF REVISION	DATE	APPR.
3	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	05/16/2022	SMM
2	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	03/15/2022	SMM
1	IWC AND PZC SUBMISSION	11/15/2021	SMM

STAMP

Loureiro
Engineering • Construction • EH&S • Energy
Waste • Facility Services • Laboratory
Loureiro Engineering Associates, Inc.
100 Fort Hill Road • Groton, Connecticut 06340
Phone: 860-448-0400 • Fax: 860-448-0899
An Employee Owned Company • www.Loureiro.com

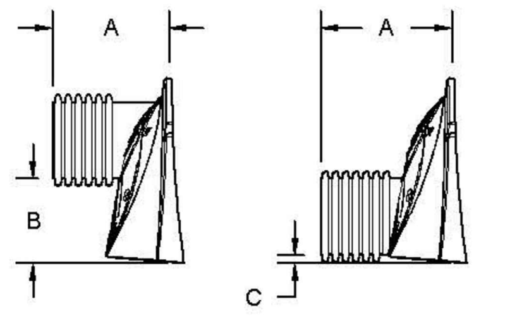
SCALE: NOT TO SCALE
COMM. NO.: 88VA9.01
DRAWN BY: BJM | DATE: 3/11/2021
APPROVED BY: PB | DATE: 3/11/2021

DETAILS

VILLAGE APARTMENTS - PHASE III
15 JEROME AVENUE, 82 JEROME ROAD AND 232 ROUTE 32, UNCASVILLE - MONTVILLE, CT
PREPARED FOR:
VILLAGE APARTMENTS LLC AND CONNECTICUT MULTIFAMILY EQUITIES II, LLC
1099 NORTH STREET, WHITE PLAINS, NY

DRAWING 19000079.12
SHEET NO. 13 | NO. OF SHEETS 14

V:\CT\MONTVILLE\JEROME RD-00\E&S PHASE III\DWGS\DETAILS.DWG Tab: DETAILS 3 Saved: 5/16/2022 1:39 PM Plotted: 5/16/2022 1:40 PM



PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

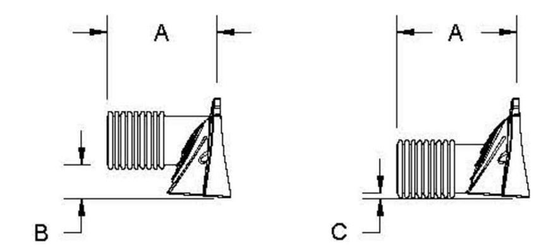
PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B 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 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

STORMTECH SC-740 STUD LOCATION IN END CAPS
NOT TO SCALE



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

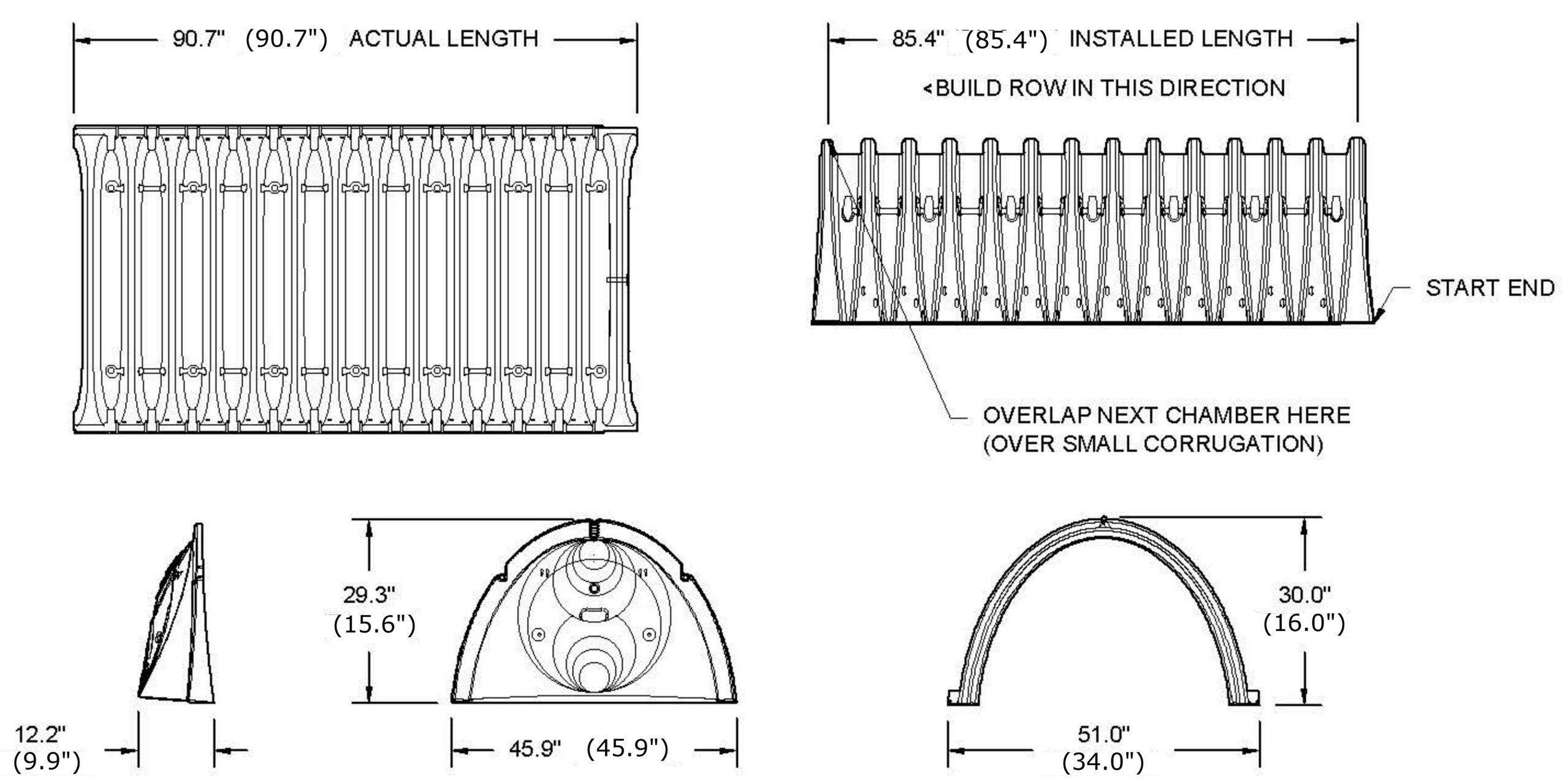
PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EPE06B / SC310EPE06BPC			---	0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EPE08B / SC310EPE08BPC			---	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10BPC			---	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 1-888-892-2694.

* 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

STORMTECH SC-310 STUD LOCATION IN END CAPS
NOT TO SCALE



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(34.0"x16.0"x85.4")
CHAMBER STORAGE	45.9 CUBIC FEET	(14.7 FT³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(31.0 FT³)
WEIGHT	75.0 lbs.	(75.0 LBS.)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

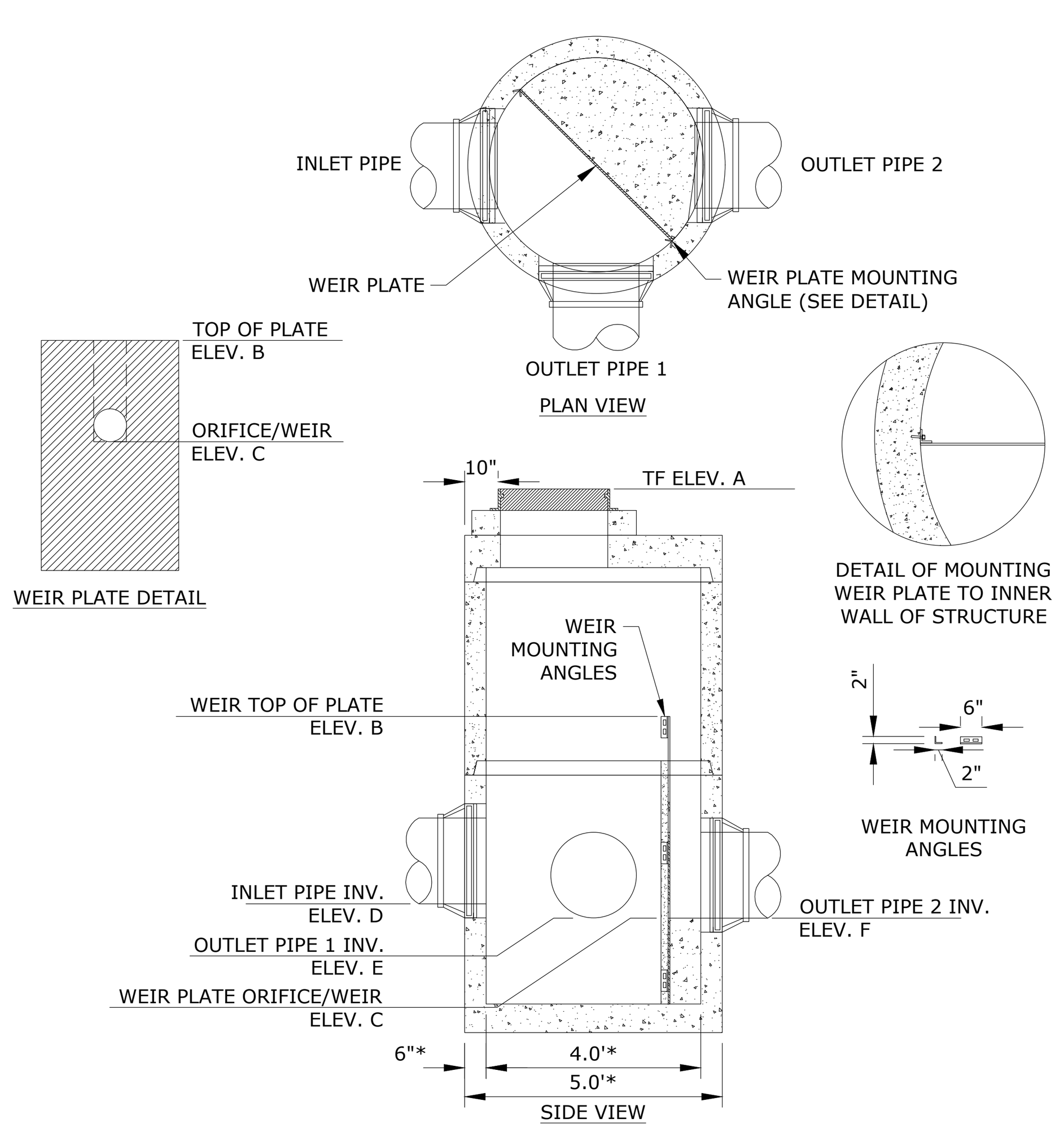
NOTE: DIMENSIONS ARE STORMTECH SC-740 WITH SC-310 SHOWN IN PARENTHESIS.

STORMTECH SC-740 & SC-310 TECHNICAL SPECIFICATION
NOT TO SCALE

UNDERGROUND DETENTION/INFILTRATION ELEVATION SUMMARY TABLE

STRUCTURE ID	CHAMBER TYPE	NUMBER OF CHAMBERS	TOP OF STONE ELEV.	TOP OF CHAMBER ELEV.	BOTTOM OF CHAMBER ELEV.	BOTTOM OF STONE ELEV.	INLET MANIFOLD SIZE	OUTLET MANIFOLD SIZE	INLET STUB INVERT ELEV.	OUTLET STUB INVERT ELEV.
UNDERGROUND DETENTION/ INFILTRATION SYSTEM #1	SC-740	99 (IN 9 ROWS)	76.5	76.0	73.5	73.0	15"X12"	15"X12"	73.6(12"Ø)	73.6(12"Ø)
UNDERGROUND DETENTION/ INFILTRATION SYSTEM #2	SC-740	234 (IN 18 ROWS)	76.0	75.5	73.0	72.5	24"X12"	24"X12"	73.10(12"Ø)	73.10(12"Ø)
UNDERGROUND DETENTION/ INFILTRATION SYSTEM #3	SC-310	170 (IN 17 ROWS)	72.83	72.33	71.0	70.5	15"X12"	15"X12"	71.08(12"Ø)	71.08(12"Ø)

UNDERGROUND DETENTION/INFILTRATION ELEVATION SUMMARY TABLE
NOT TO SCALE



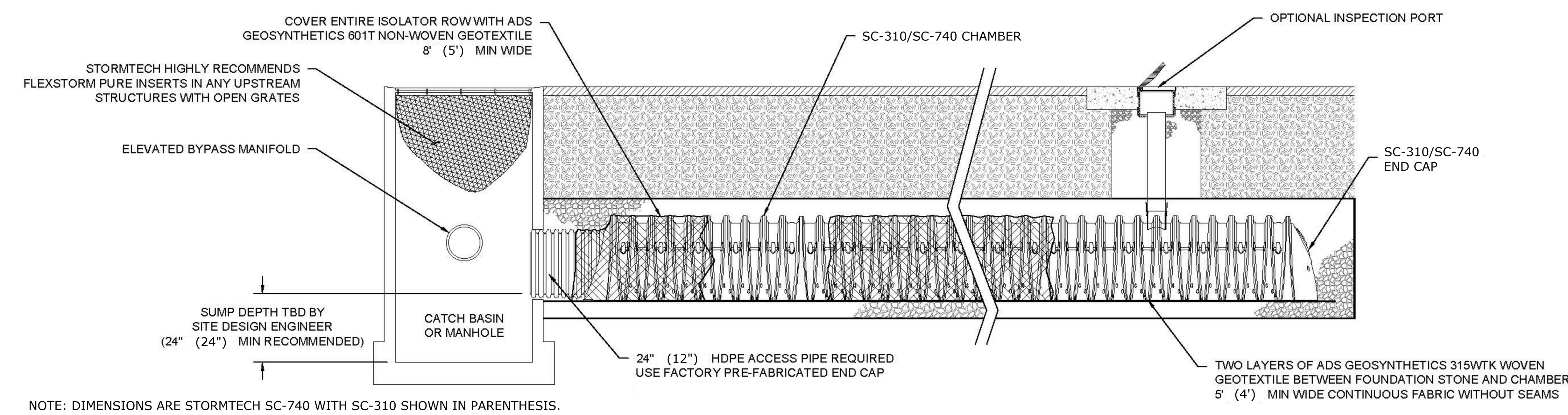
NOTE:
*5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' AND 6' BASES. WALL THICKNESS TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.

NOTES:
1. STEEL REINFORCEMENT SHALL CONFORMS TO LATEST ASTM SPECIFICATIONS:
   ASTM A-615, GRADE 60 BLACK DEFORMED BARS
   ASTM A-185 WELDED WIRE FABRIC
   0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
2. CONCRETE: Fc = 4,000 PSI @ 28 DAYS MINIMUM, TYPE III CEMENT
3. BUTYL RUBBER JOINT SEALANT PROVIDED CONFORMS TO ASTM C-990 AND FEDERAL SPEC SS-S-210A
4. ONE POUR MONOLITHIC BASE SECTION.

OVERFLOW CONTROL STRUCTURE ELEVATION SUMMARY TABLE

STRUCTURE ID	TOP OF FRAME ELEV. A	TOP OF WEIR PLATE ELEV. B	LOW-FLOW ORIFICE/WEIR INVERT ELEV. C	INLET PIPE INVERT ELEV. D	OUTLET PIPE 1 INVERT ELEV. E	OUTLET PIPE 2 INVERT ELEV. F
ICS1	78.3	74.75	-	74.70 (18"Ø)	73.5 (24"Ø; ISOLATER ROW)	73.5 (15"Ø; INLET MANIFOLD)
ICS2	80.3	74.75	-	76.15 (12"Ø)	73.5 (24"Ø; ISOLATER ROW)	73.5 (15"Ø; INLET MANIFOLD)
ICS3	78.0	74.25	-	73.65 (18"Ø)	73.0 (24"Ø; ISOLATER ROW)	73.0 (24"Ø; INLET MANIFOLD)
ICS4	81.7	74.25	-	73.0 (24"Ø)	73.0 (24"Ø; ISOLATER ROW)	73.0 (24"Ø; INLET MANIFOLD)
ICS5	77.5	73.25	-	71.90 (15"Ø)	71.08 (12"Ø; ISOLATER ROW)	71.0 (15"Ø; INLET MANIFOLD)
ICS6	77.2	73.25	-	72.40 (15"Ø)	71.08 (12"Ø; ISOLATER ROW)	71.0 (15"Ø; INLET MANIFOLD)
OCS1	80.1	76.0	74.75 (4"Ø ORIFICE) 73.75 (4"Ø ORIFICE)	73.50(15"Ø; N) 73.60(12"Ø; E)	-	73.5 (12"Ø)
OCS2	79.6	75.5	73.0 (8"Ø ORIFICE)	73.0(24"Ø)	-	73.0 (15"Ø)
OCS4	78.45	-	-	71.0(15"Ø; E & W) 71.08(12"Ø; S)	-	71.1 (18"Ø)

INLET CONTROL STRUCTURE (ICS) AND OUTLET CONTROL STRUCTURE (OCS)
NOT TO SCALE



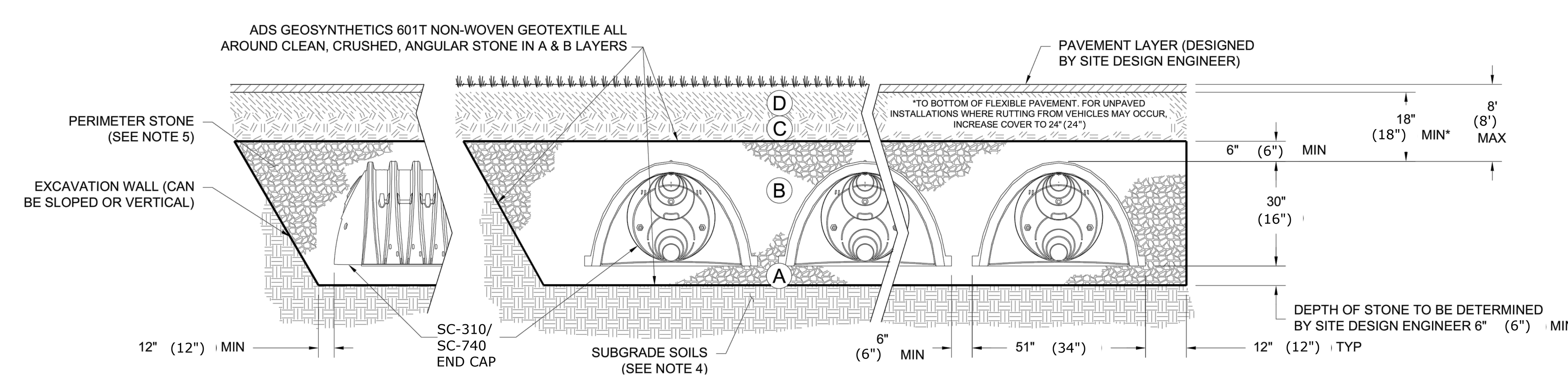
NOTE: DIMENSIONS ARE STORMTECH SC-740 WITH SC-310 SHOWN IN PARENTHESIS.

STORMTECH SC-740 & SC-310 ISOLATOR ROW DETAIL
NOT TO SCALE

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 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 SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 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 LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. 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".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. 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.
4. 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:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740/310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550* LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

*ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. FOR SC-740 CHAMBERS AND 400 LBS/IN/IN. FOR SC-310 CHAMBERS.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 & SC-310 CHAMBER SYSTEMS
NOT TO SCALE

APPROVED BY THE MONTVILLE INLAND WETLAND COMMISSION ON ______ DATE
CHAIRMAN/SECRETARY ______ DATE

APPROVED BY THE MONTVILLE PLANNING AND ZONING COMMISSION ON ______ DATE
CHAIRMAN/SECRETARY ______ DATE

REV.	DESCRIPTION OF REVISION	DATE	APPR.
3	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	05/16/2022	SMM
2	REVISIONS PER TOWN AND THIRD PARTY REVIEW COMMENTS	03/15/2022	SMM
1	IWC AND PZC SUBMISSION	11/15/2021	SMM

STAMP

Loureiro
Engineering • Construction • EH&S • Energy
Waste • Facility Services • Laboratory
Loureiro Engineering Associates, Inc.
100 Fort Hill Road • Groton, Connecticut 06340
Phone: 860-448-0400 • Fax: 860-448-0899
An Employee Owned Company • www.Loureiro.com

SCALE: NOT TO SCALE
COMM. NO. 88VA9.01
DRAWN BY: BJM DATE: 3/11/2021
APPROVED BY: PB DATE: 3/11/2021

DETAILS

VILLAGE APARTMENTS - PHASE III
15 JEROME AVENUE, 82 JEROME ROAD AND 232 ROUTE 32, UNCASVILLE - MONTVILLE, CT
PREPARED FOR:
VILLAGE APARTMENTS LLC AND CONNECTICUT MULTIFAMILY EQUITIES II, LLC
1099 NORTH STREET, WHITE PLAINS, NY

V:\CT\MONTVILLE\JEROME RD-00\E&S PHASE III\DWGS\DETAILS.DWG Tab: DETAILS 4 Saved: 5/16/2022 1:41 PM Plotted: 5/16/2022 1:41 PM

DRAWING 19000079.13
SHEET NO. 14 NO. OF SHEETS 14