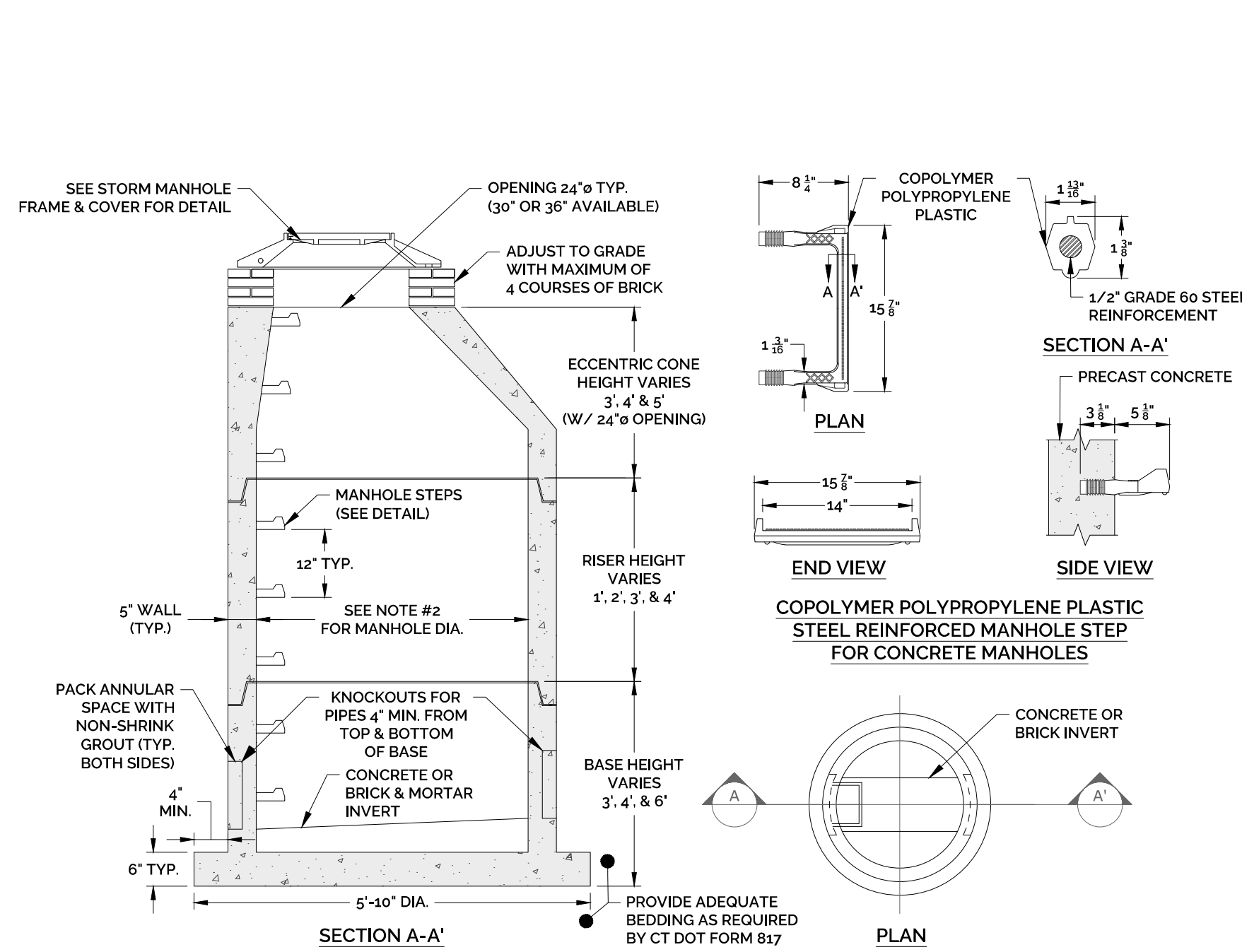
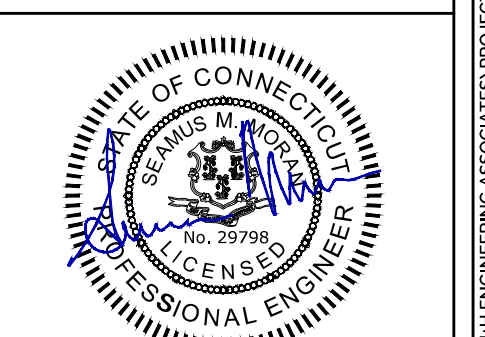


REV.	DATE	DESCRIPTION
1	8/15/2025	RESPONSE TO REVIEW COMMENTS

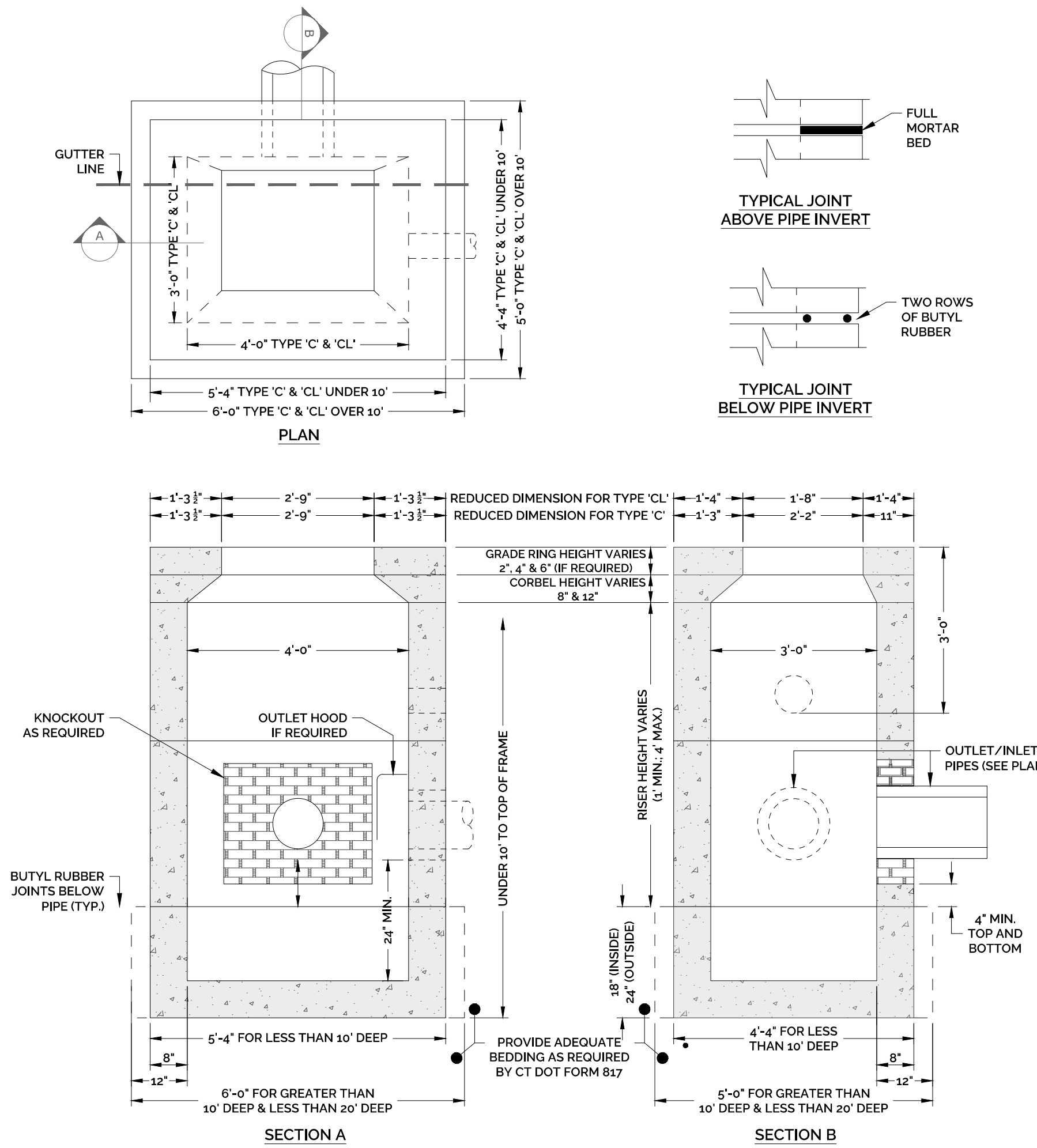
**DRAINAGE DETAILS**  
 23-Lot Residential Resubdivision  
 PROPERTY ADDRESS:  
 47 SHARP HILL ROAD, MONTVILLE, CT 06382  
 PREPARED FOR:  
 MT KINEO BUILDERS, LLC  
 P.O. BOX 246, WEST MYSTIC, CT 06388

PROJECT NO. 2025-0197	SCALE AS NOTED
DRAWN BY: SMM	DATE 7/10/2025
CHECKED BY: SMM	DATE 7/10/2025

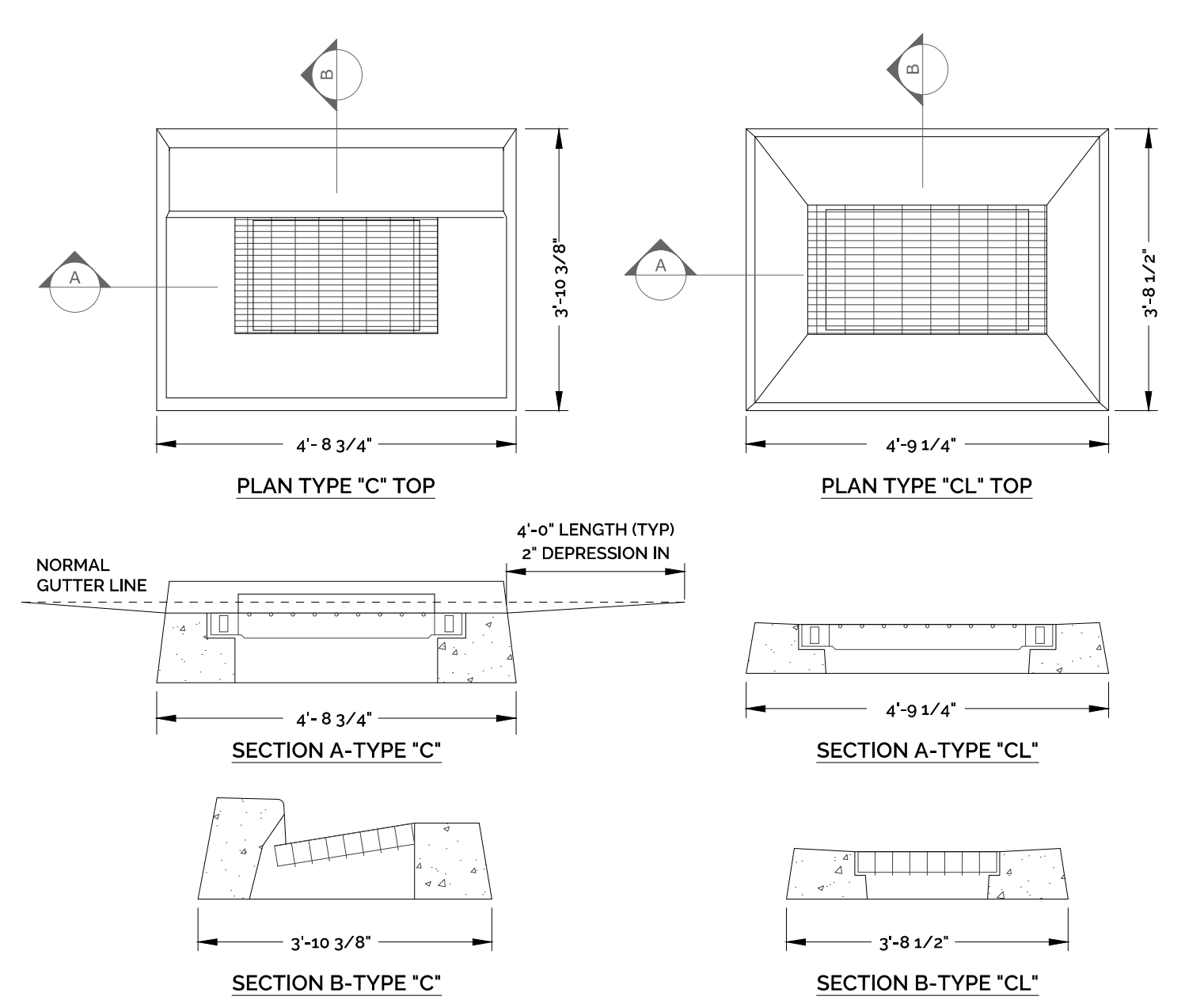
DRAWING  
**DT-2**



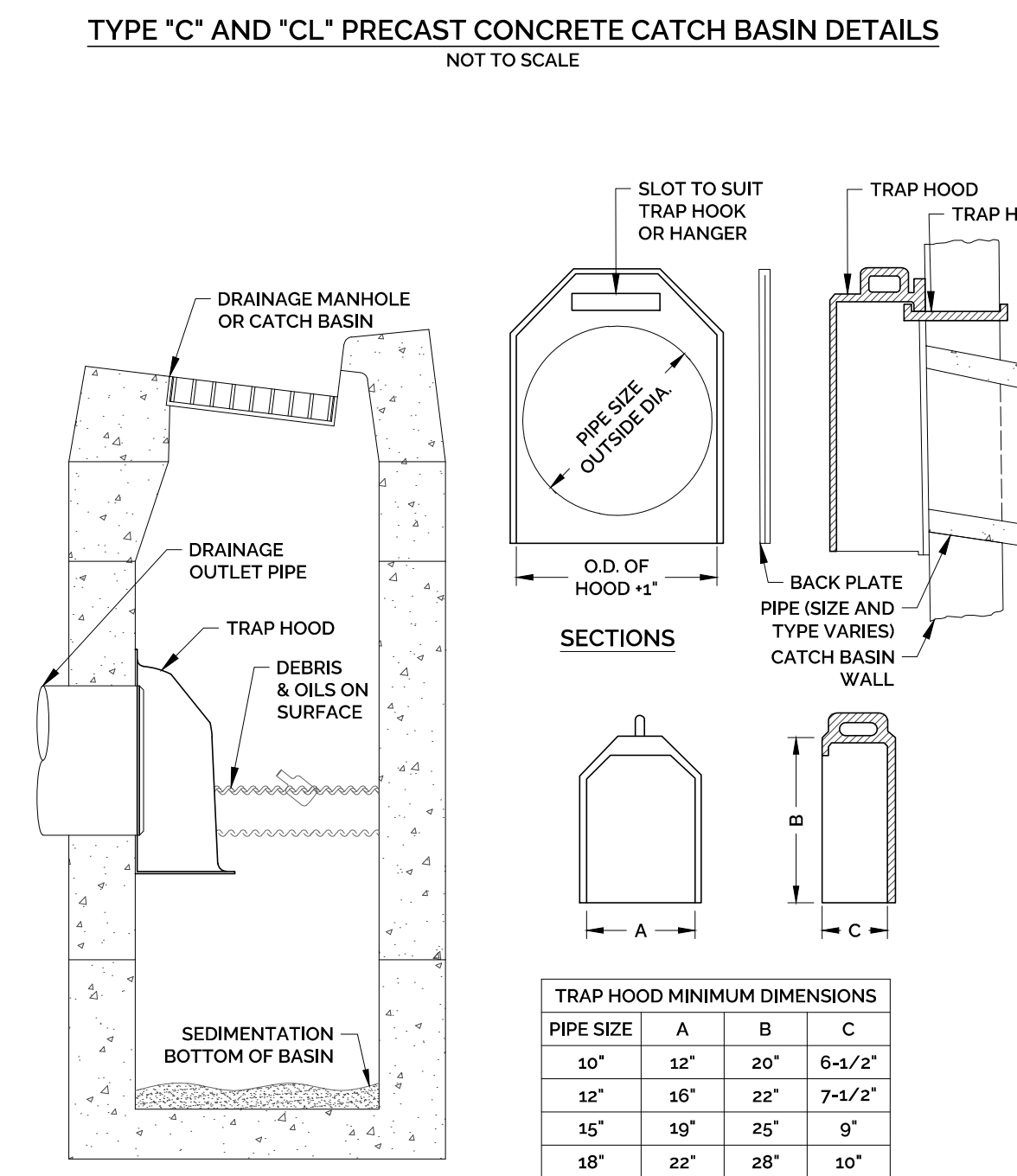
- NOTES:
- PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO CT DOT STANDARD SHEET HW-507.10 AS AMENDED.
  - 4", 5" OR 6" PRECAST CONCRETE BASE DIAMETERS MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5" AND 6" BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS SHALL INCREASE 1" FOR EACH 1" OF INSIDE DIAMETER INCREASE.
  - JOINT SEALANT SHALL BE BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPECIFICATION M-198 & MEETS FEDERAL SPECIFICATION SS-5-0021210-A).
  - REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CT DOT STANDARDS & SUPPLEMENTALS AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2", UNLESS OTHERWISE NOTED.
  - ALL PIPE OPENINGS SHALL BE CLOSED USING MATERIALS WHICH CONFORM TO STATE OF CT STANDARD SPECIFICATIONS SECTION M.08.02.
  - REINFORCING STEEL WELDED WIRE FABRIC SHALL CONFORM TO LATEST ASTM SPECIFICATION A186.
  - CONCRETE COMPRESSIVE STRENGTH SHALL BE MINIMUM 4000 PSI AT 28 DAYS, SELF COMPACTING CONCRETE MIX.
  - MANHOLE STEPS SHALL MEET LATEST OSHA REGULATIONS, (29 CFR 1910.27), SECTION 16 OF ASTM SPECIFICATION C478 AND SECTION 10 OF ASTM SPECIFICATION C497.
  - WHEN SPECIFIED, MANHOLES ARE TO BE COATED WITH BAY OIL, "EBONY".
  - METHOD OF MANUFACTURE SHALL BE WET CAST.
  - BASE SECTION IS MONOLITHIC.
  - MANHOLE INTERIOR DIAMETER:  
 4'-0" FOR 8" TO 36" PIPE DIAMETERS  
 5'-0" FOR 42" PIPE DIAMETER  
 6'-0" FOR 48" PIPE DIAMETER
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04 & HW-507.10, CT DOT FORM 817 AND (MANHOLE STEPS) THE METROPOLITAN DISTRICT SEWER STANDARD DETAILS FIG. 5-34, DATED JAN. 2017.



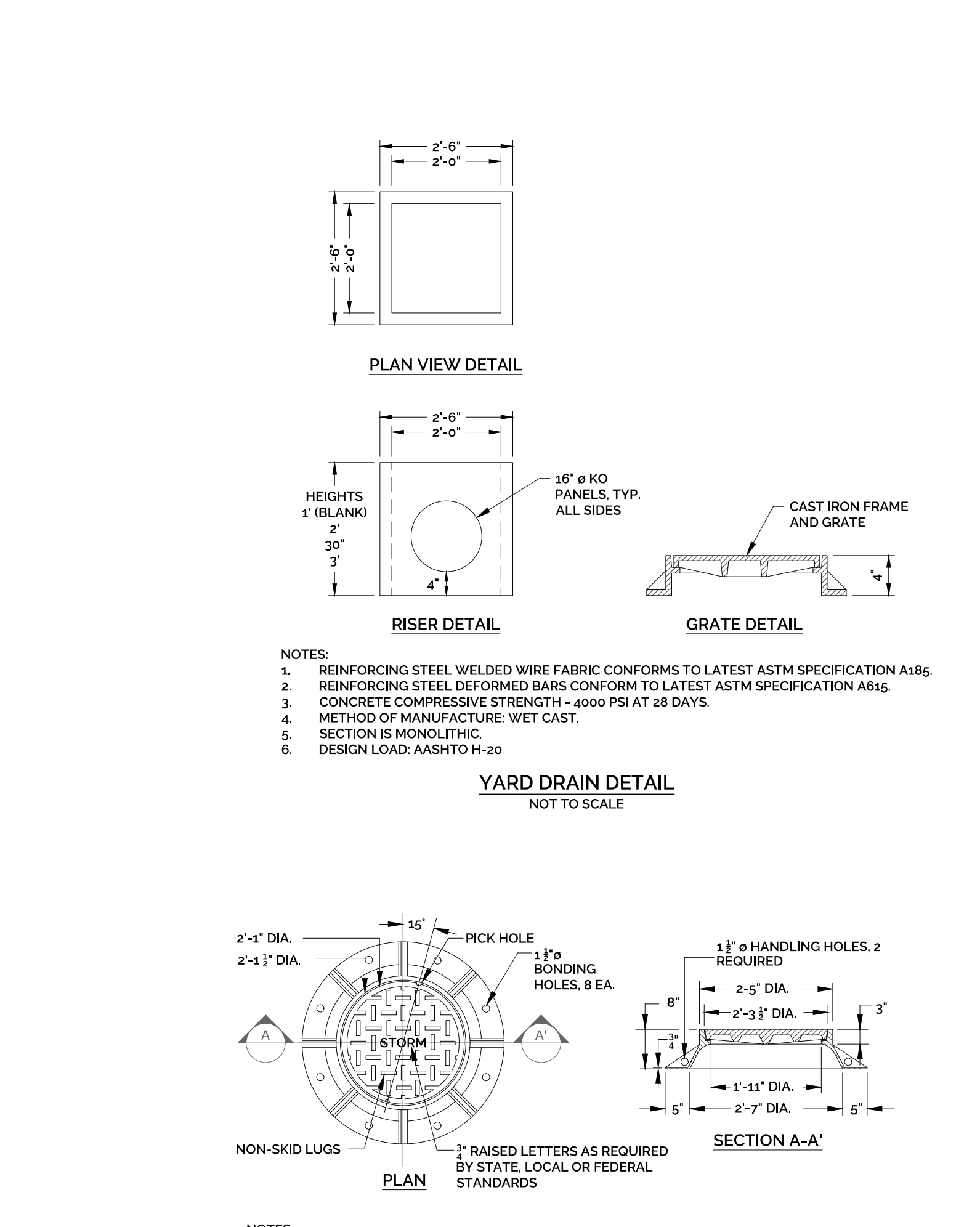
- NOTES:
- PRECAST CONCRETE CATCH BASIN COMPONENTS SHALL CONFORM TO CT DOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507.04, HW-507.07 & HW-507.08, AS AMENDED.
  - THIS DETAIL IS BASED ON CT DOT PRECAST CONCRETE TYPE "C" & "CL" CATCH BASIN COMPONENTS, (UNDER 10" DEEP SHOWN).
  - REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CT DOT STANDARDS & SUPPLEMENTALS AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.
  - METHOD OF MANUFACTURE SHALL BE WET CAST.
  - SUMP SECTION SHALL BE MONOLITHIC.
  - DESIGN LOAD SHALL BE AASHTO H-20.
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04, HW-507.07 & HW-507.08, CT DOT FORM 817, AND UNITED CONCRETE PRODUCTS, AUGUST 2015



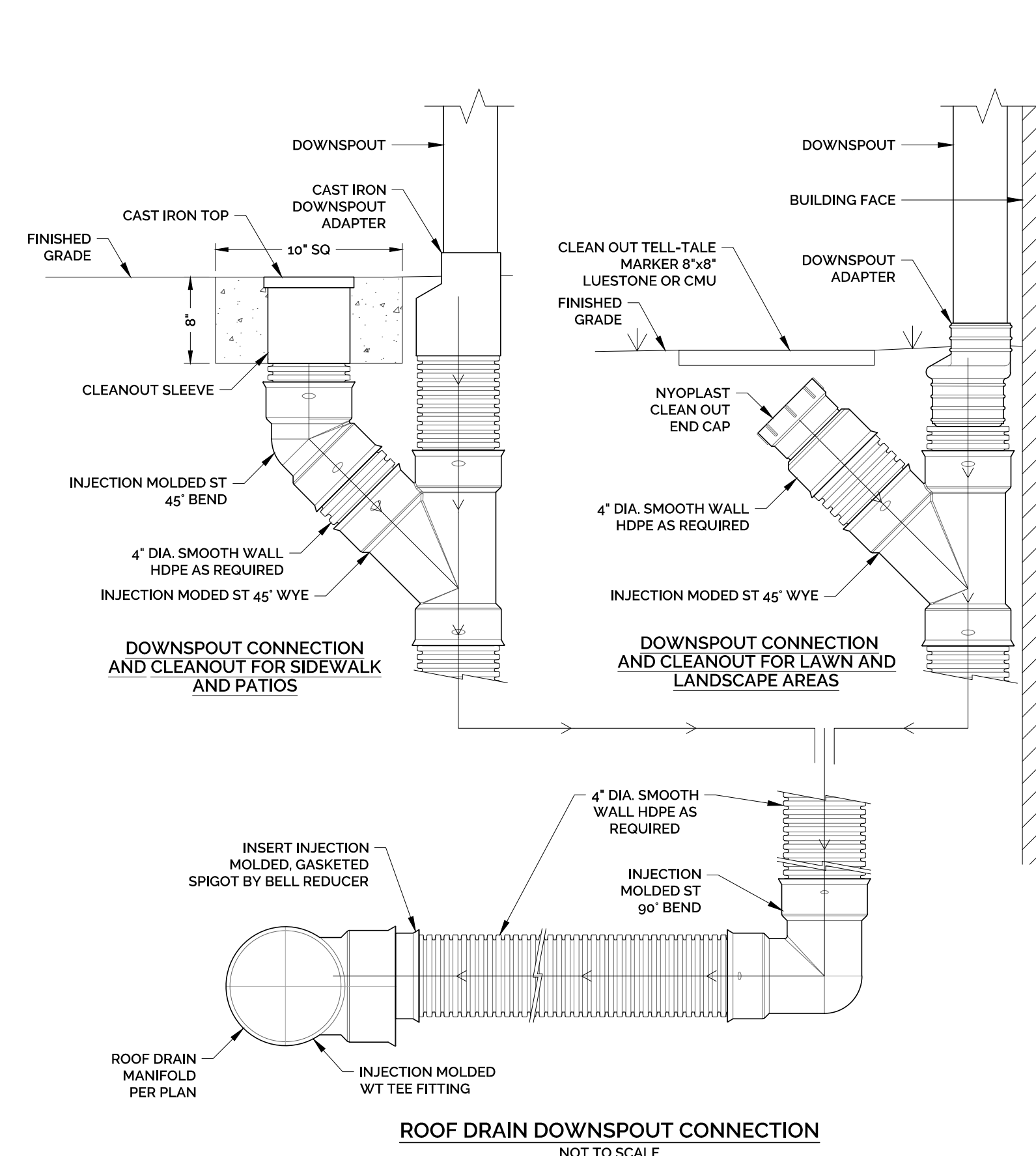
- NOTES:
- CATCH BASIN TOPS, CURBS AND GRATE COMPONENTS SHALL CONFORM TO CT DOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507.07 AND HW-507.08, AS AMENDED.
  - REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CT DOT STANDARDS & SUPPLEMENTALS AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.
  - ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M6.03 OF CONNECTICUT STANDARD SPECIFICATIONS.
  - TYPE "C" CATCH BASIN DEPRESSED GUTTER STRIPS SHALL CONFORM TO CT DOT STANDARD SHEET HW-507.01, AS AMENDED.
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04, HW-507.07 & HW-507.08, CT DOT FORM 817, AND UNITED CONCRETE PRODUCTS, AUGUST 2015.



- NOTES:
- TRAP HOODS SHALL BE CAST IRON FOR 10", 12", 15" AND 18" PIPE SIZES AND FABRICATED ALUMINUM FOR 21" OR GREATER.
  - ALL TRAP HOODS SHALL INCLUDE STAINLESS STEEL HOOKS OR HANGERS FOR MOUNTING TO THE CATCH BASIN WALL. BACK PLATES SHALL BE FURNISHED ONLY WHEN REQUESTED.
  - TRAP HOODS SHALL BE FROM CAMPBELL FOUNDRY, NEEHAW FOUNDRY, EAST JORDAN IRON WORKS OR APPROVED EQUAL. DIMENSIONS AND MODEL NUMBERS VARY BASED ON DISCHARGE PIPE SIZE AND MANUFACTURER.
  - SEE MANUFACTURER FOR INSTALLATION INSTRUCTIONS.



- NOTES:
- STORM MANHOLE FRAMES AND COVERS SHALL CONFORM TO CT DOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507.10, AS AMENDED.
  - CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY, UNLESS OTHERWISE DIRECTED.
  - A FRAME OF 3'-3" WITH 4" FLANGE SHALL BE USED WHEN THE TOP DIAMETER OF A PRECAST CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
  - ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04 & HW-507.10, CT DOT FORM 817.



- NOTES:
- TRAP HOODS SHALL BE CAST IRON FOR 10", 12", 15" AND 18" PIPE SIZES AND FABRICATED ALUMINUM FOR 21" OR GREATER.
  - ALL TRAP HOODS SHALL INCLUDE STAINLESS STEEL HOOKS OR HANGERS FOR MOUNTING TO THE CATCH BASIN WALL. BACK PLATES SHALL BE FURNISHED ONLY WHEN REQUESTED.
  - TRAP HOODS SHALL BE FROM CAMPBELL FOUNDRY, NEEHAW FOUNDRY, EAST JORDAN IRON WORKS OR APPROVED EQUAL. DIMENSIONS AND MODEL NUMBERS VARY BASED ON DISCHARGE PIPE SIZE AND MANUFACTURER.
  - SEE MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

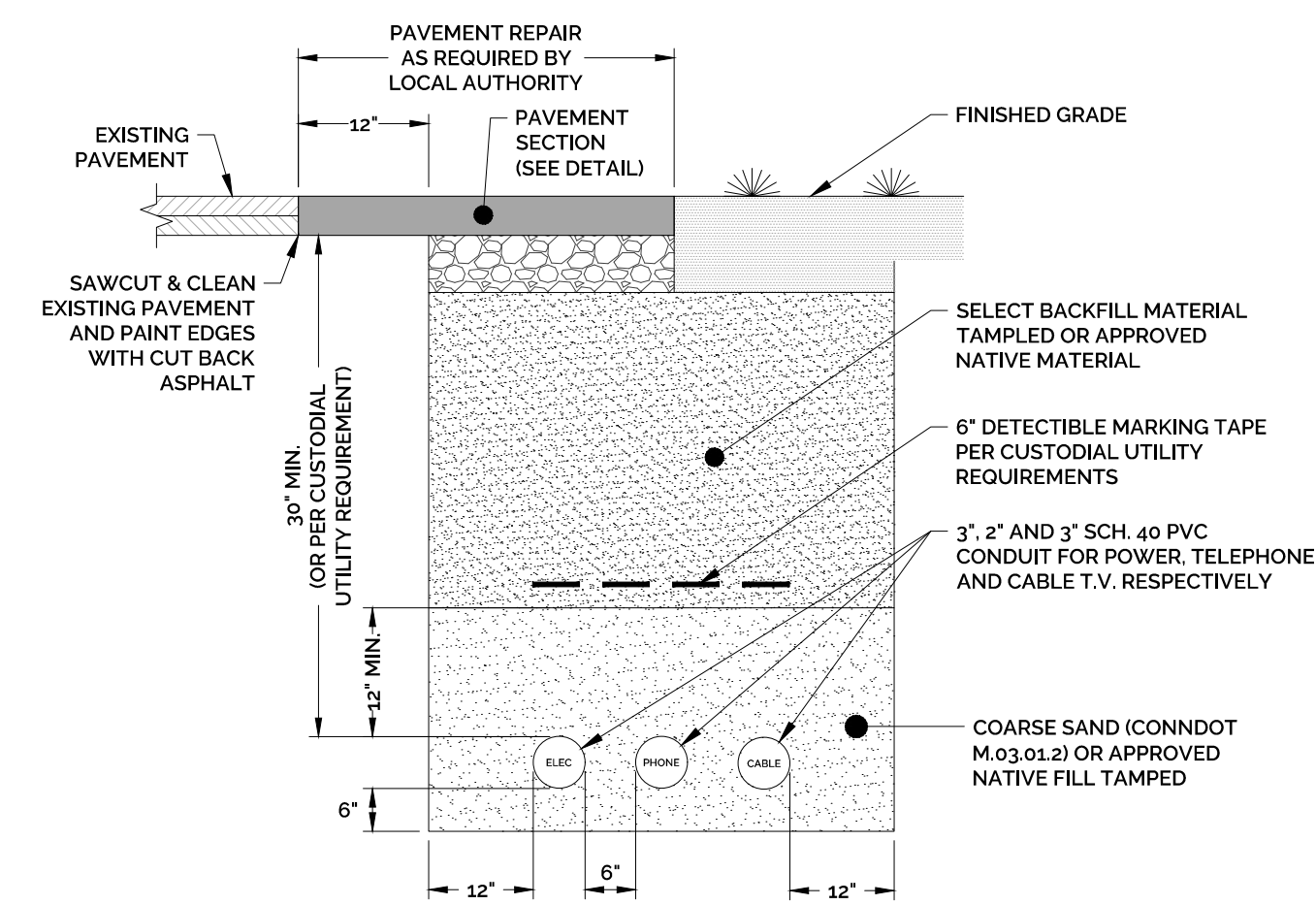
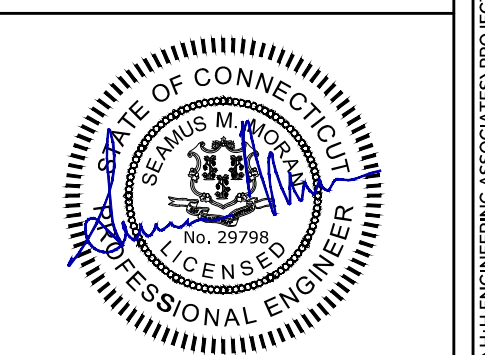
REV.	DATE	DESCRIPTION OF REVISION
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
		DESCRIPTION OF REVISION

**UTILITY DETAILS**

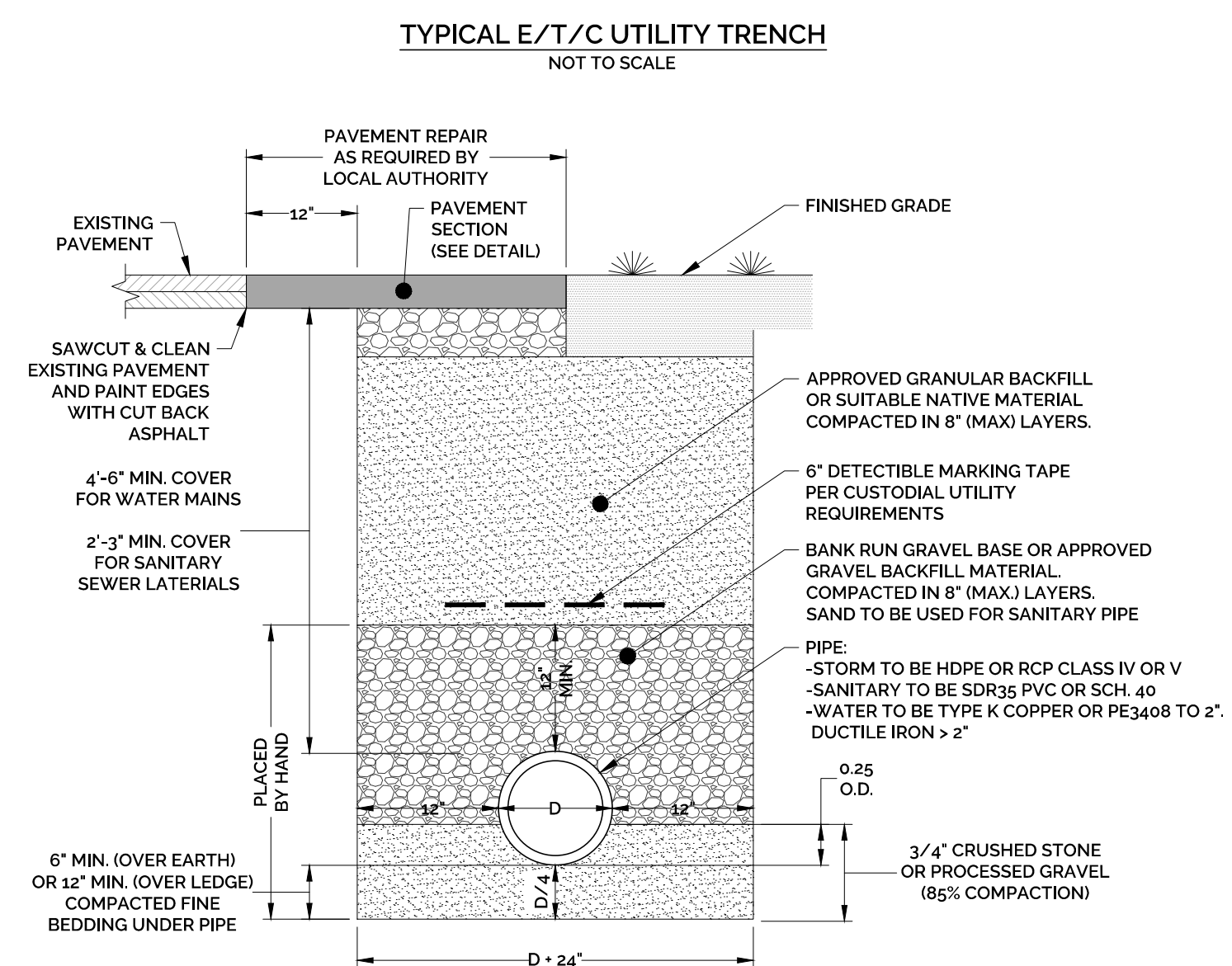
**23-Lot Residential Resubdivision**  
 PROPERTY ADDRESS:  
**47 SHARP HILL ROAD, MONTVILLE, CT 06382**  
 PREPARED FOR:  
**MT KINEO BUILDERS, LLC**  
 P.O. BOX 246, WEST MYSTIC, CT 06388

PROJECT NO. 2025-0197	SCALE AS NOTED
DRAWN BY: SMM	DATE 7/10/2025
CHECKED BY: SMM	DATE 7/10/2025

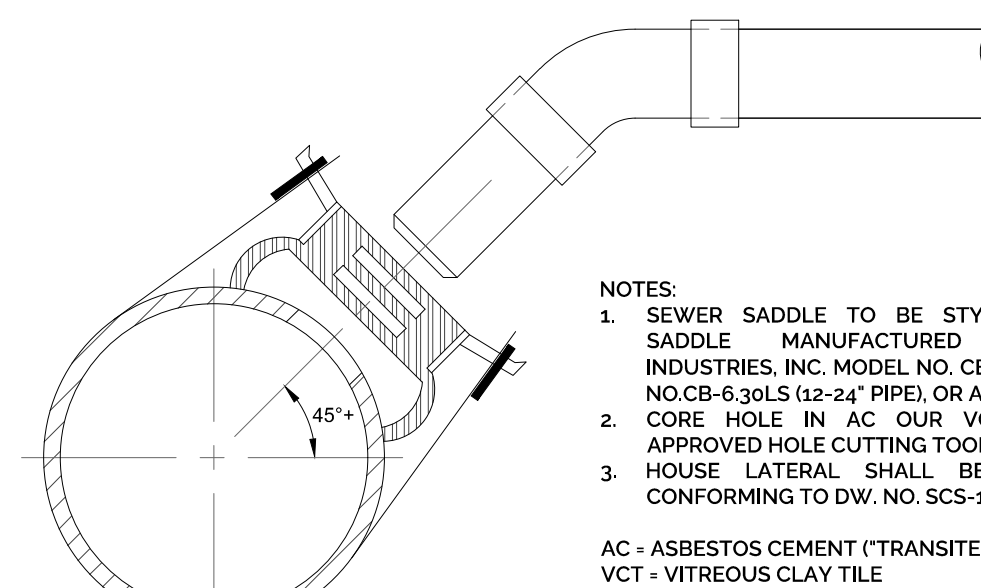
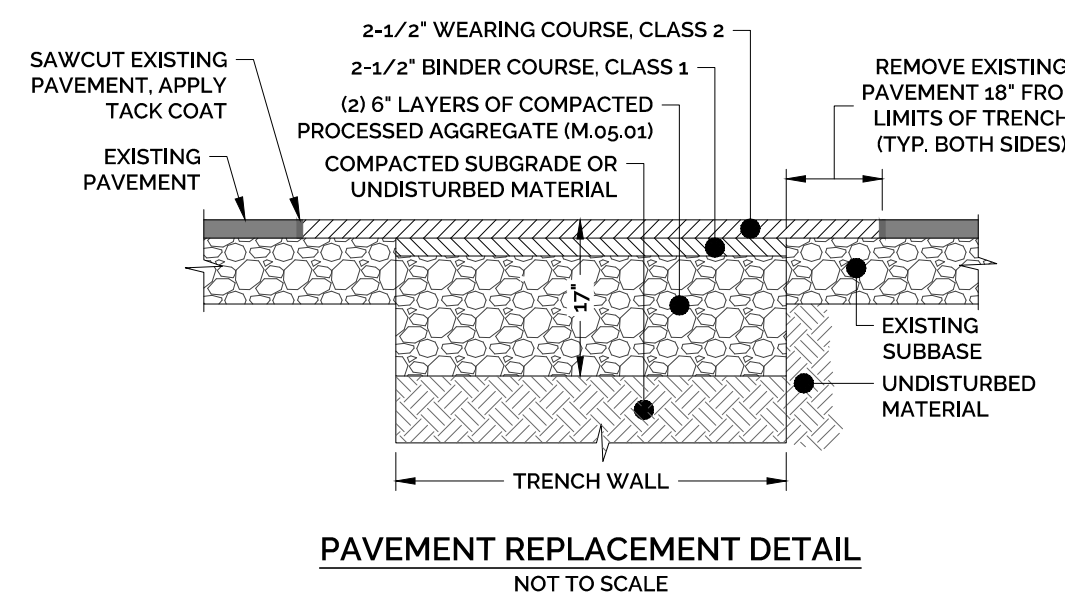
DRAWING  
**DT-3**



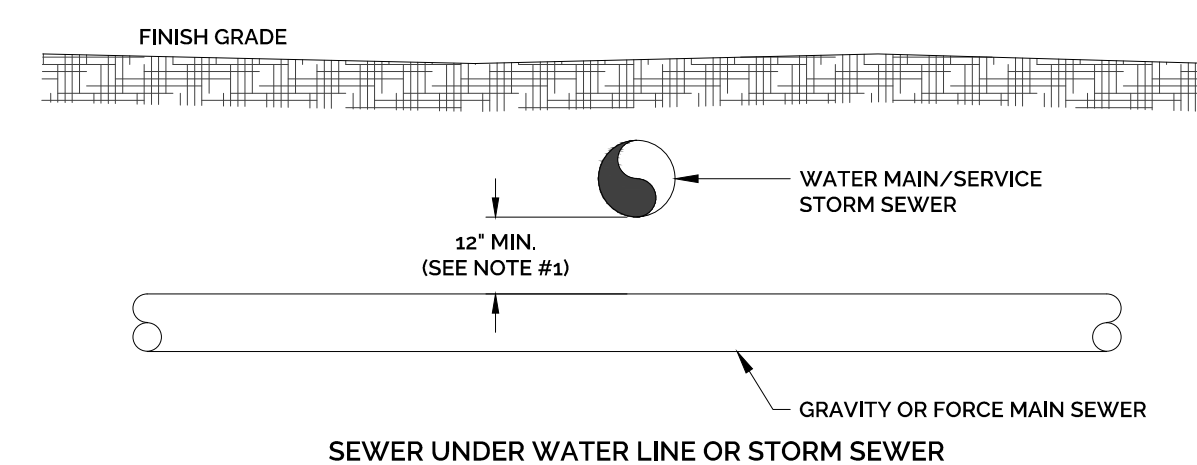
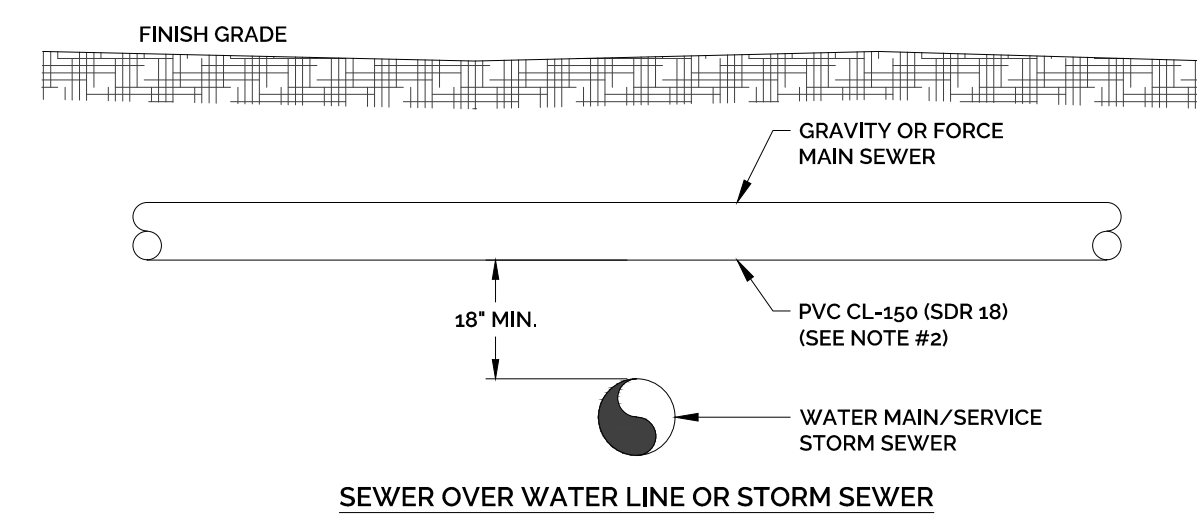
- NOTES:**
- SELECT BACKFILL MATERIAL SHALL BE BANK-RUN GRAVEL GRADATION C, FORM 817, 2019, OR PROCESSED AGGREGATE CAN BE USED IN LIEU OF BANK-RUN GRAVEL OR APPROVED NATIVE MATERIAL.
  - ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO CONNECTICUT DOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 817, 2019 OR AS AMENDED.
  - ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH ALL MUNICIPAL AND UTILITY AUTHORITY REQUIREMENTS AND SPECIFICATIONS.
  - ALL PROPOSED MATERIALS SHALL BE INSTALLED AS SHOWN OR MATCH EXISTING CONDITIONS AS APPROVED BY THE MUNICIPALITY.
  - CONTRACTOR RESPONSIBLE FOR EXCAVATION, BEDDING, CONDUIT & BACKFILL.



- NOTES:**
- SELECT BACKFILL MATERIAL SHALL BE BANK-RUN GRAVEL GRADATION C, FORM 817, 2019, OR PROCESSED AGGREGATE CAN BE USED IN LIEU OF BANK-RUN GRAVEL OR APPROVED NATIVE MATERIAL.
  - ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO CONNECTICUT DOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 817, 2019 OR AS AMENDED.
  - ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH ALL MUNICIPAL AND UTILITY AUTHORITY REQUIREMENTS AND SPECIFICATIONS.
  - ALL PROPOSED MATERIALS SHALL BE INSTALLED AS SHOWN OR MATCH EXISTING CONDITIONS AS APPROVED BY THE MUNICIPALITY.
  - USE WATERTIGHT RUBBER CASSETS ASTM C443 IN ALL PIPE JOINTS.

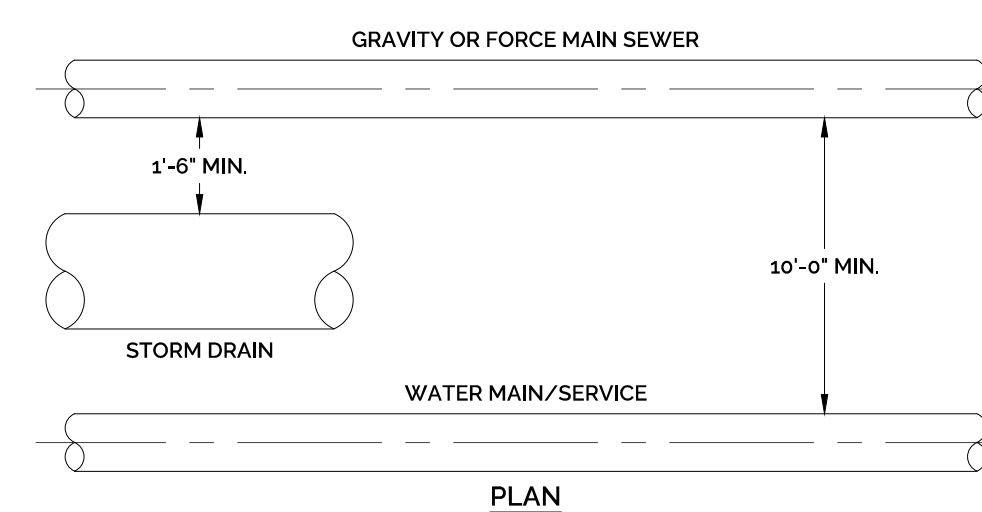


- NOTES:**
- SEWER SADDLE TO BE STYLE "CB" SEWER SADDLE MANUFACTURED BY ROMAC INDUSTRIES, INC. MODEL NO. CB-6.30 (8-1/2" PIPE). NO. CB-6.30LS (12-24" PIPE) OR APPROVED EQUAL.
  - CORE HOLE IN AC OUR VCT MAIN USING APPROVED HOLE CUTTING TOOL.
  - HOUSE LATERAL SHALL BE 6" PVC PIPE CONFORMING TO DW. NO. SCS-101.102 OR 103.
- AC - ASBESTOS CEMENT ("TRANSITE")  
VCT - VITREOUS CLAY TILE



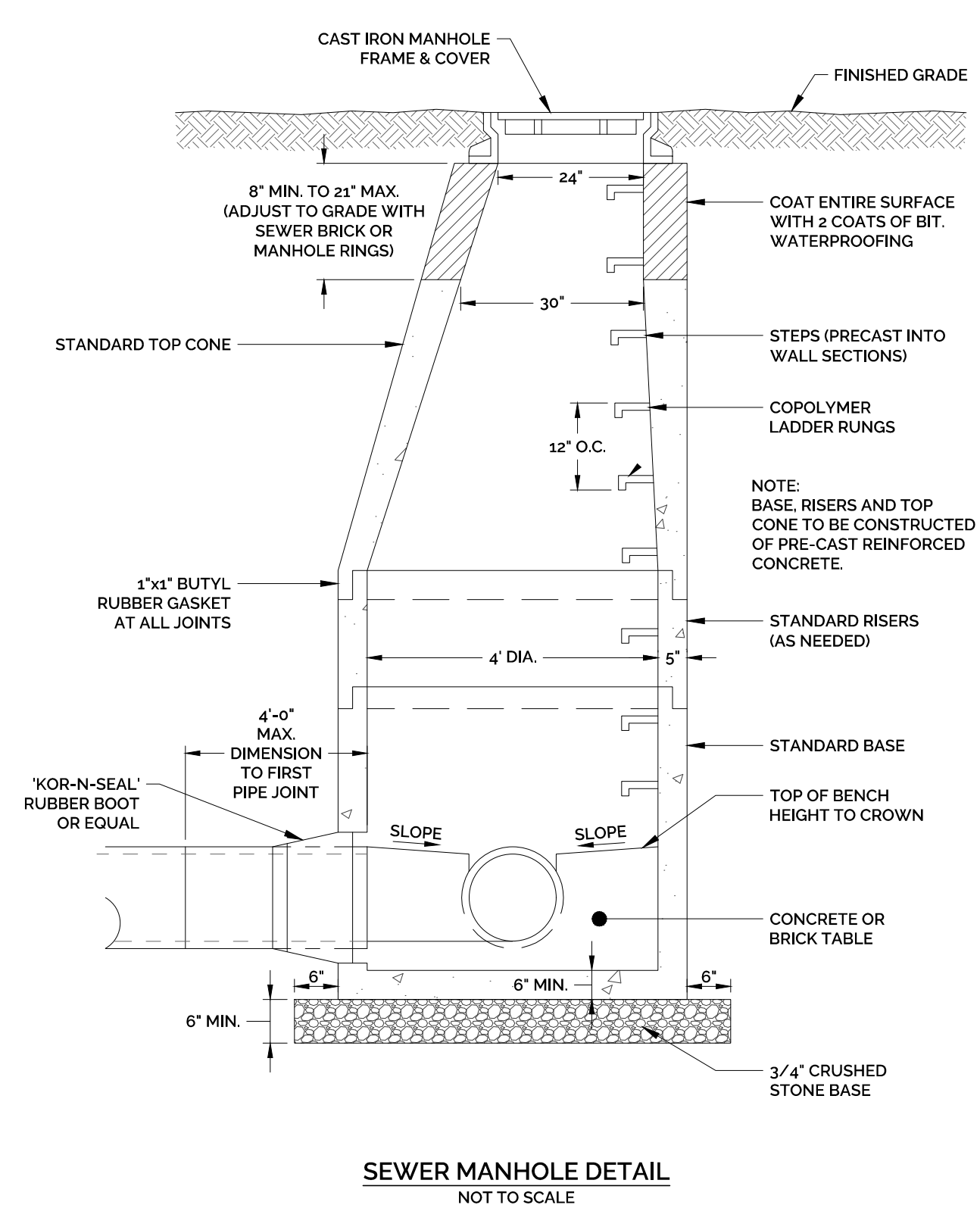
- NOTES:**
- WHEN THE VERTICAL SEPARATION DISTANCE IS 12"-18" THE SEWER SHALL BE PVC CL-150 (SDR 18) FOR A DISTANCE OF 10'-0" ON EITHER SIDE OF THE WATER LINE OR STORM SEWER. WHEN THE SEPARATION DISTANCE IS GREATER THAN 18", STANDARD SEWER PIPE MATERIAL (SDR 35) MAY BE USED.
  - THE SEWER PIPE SHALL BE PVC CL-150 (SDR 18) FOR A DISTANCE OF 10'-0" ON EITHER SIDE OF THE WATER LINE OR STORM SEWER. NO PIPE JOINTS SHALL BE LOCATED WITHIN THE 10' DISTANCE EITHER SIDE.
  - THESE SEPARATION DISTANCES APPLY TO ANY SEWER WITHIN A TOWN RIGHT-OF-WAY OR EASEMENT.

**VERTICAL SEPARATION DISTANCES**  
NOT TO SCALE



- NOTES:**
- THESE SEPARATION DISTANCES APPLY TO ANY SEWER WITHIN A TOWN RIGHT-OF-WAY OR EASEMENT.
  - HORIZONTAL RESTRICTIONS FOR STORM SEWER ONLY APPLY WHEN PIPES ARE AT THE SAME ELEVATION.

**HORIZONTAL SEPARATION DISTANCES**  
NOT TO SCALE



**TEST PIT RESULTS**  
DATE: MARCH 27, 2025  
RECORDED BY: SEAMUS MORAN, P.E.  
(H-H ENGINEERING ASSOCIATES, LLC)

TEST HOLE 101	
0'-11"	TOPSOIL
11'-28"	ORANGE-BROWN FINE SANDY LOAM
28'-40"	MEDIUM SAND W/ COBBLES
40'-48"	BROWN VERY FINE SAND W/ SILT
48'-75"	TAN FINE-MEDIUM SAND
NO MOTTLING NO GROUNDWATER NO LEDGE	

TEST HOLE 102	
0'-11"	TOPSOIL
11'-30"	ORANGE-BROWN FINE SANDY LOAM
30'-53"	GRAY VERY FINE SAND W/ SILT
53'-65"	BROWN VERY FINE SAND
65'-73"	TAN FINE SAND
73'-93"	BROWN-GRAY COARSE SAND & GRAVEL
MOTTLING @ 38" (PERCHED GROUNDWATER) NO GROUNDWATER NO LEDGE	

TEST HOLE 103	
0'-18"	TOPSOIL
18'-30"	BROWN VERY FINE SAND W/ SILT
30'-35"	GRAY VERY FINE SAND W/ SILT, MOTTLED
55'-80"	ORANGE-BROWN COARSE SAND & GRAVEL
MOTTLING @ 36" (POSSIBLY PERCHED GROUNDWATER) NO GROUNDWATER NO LEDGE ROOTS TO 61"	

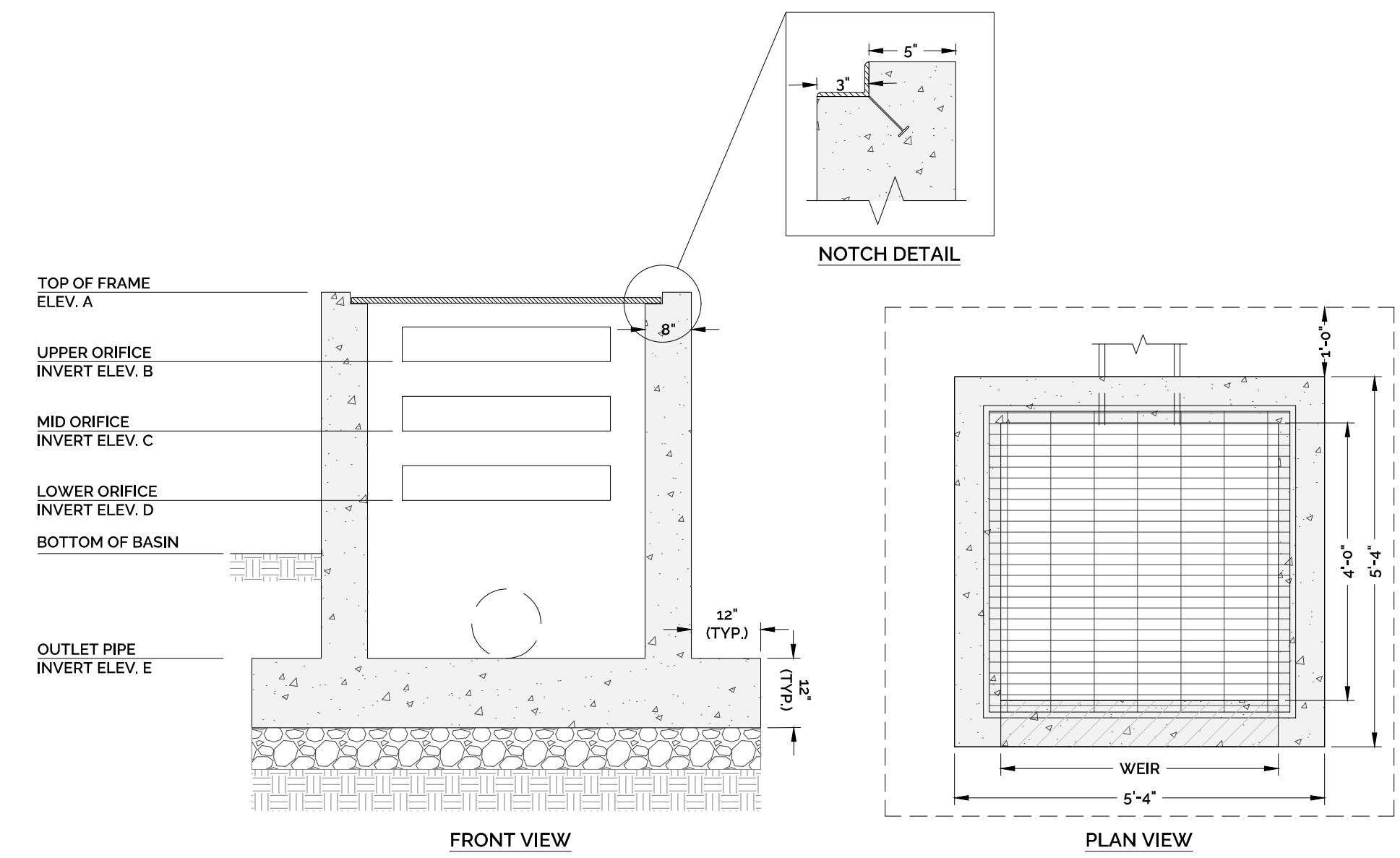
TEST HOLE 104	
0'-8"	TOPSOIL
8'-28"	ORANGE-BROWN FINE SANDY LOAM
28'-33"	GRAY VERY FINE SAND W/ SILT
33'-55"	ORANGE MEDIUM-COARSE SAND W/ FRAGMENTED ROCK
55'-90"	DARK GRAY/BROWN COARSE SAND
MOTTLING @ 31" (PERCHED GROUNDWATER) NO GROUNDWATER NO LEDGE ROOTS TO 61"	

TEST HOLE 105	
0'-16"	TOPSOIL
16'-50"	ORANGE-BROWN FINE-MEDIUM SAND
50'-68"	BROWN VERY FINE SANDY LOAM W/ SILT
68'-92"	BROWN FINE SAND
NO MOTTLING GROUNDWATER @ 88" NO LEDGE ROOTS TO 61"	

**PERMEABILITY RESULTS**  
DATE: MARCH 27, 2025  
COLLECTED BY: SEAMUS MORAN, P.E.  
(H-H ENGINEERING ASSOCIATES, LLC)  
TESTED BY: CLA ENGINEERS  
TESTING METHOD: FALLING HEAD PERMEABILITY TEST

TEST HOLE	SAMPLE DEPTH (INCHES)	PERMEABILITY (FT/DAY)
101	30	13.0
102	27	0.1
104	33	3.8
105	30	8.2

OUTLET CONTROL STRUCTURE ELEVATION SUMMARY TABLE					
STRUCTURE ID	TOP OF FRAME ELEV. A	UPPER ORIFICE INVERT ELEV. B	MIDDLE ORIFICE INVERT ELEV. C	LOWER ORIFICE INVERT ELEV. D	OUTLET PIPE INVERT ELEV. E
OCS-1	358.25	--	--	356.75 (48"W) x 6"(H)	345.00 (24")
OCS-2	348.75	--	--	346.25 (48"W) x 6"(H)	339.00 (24")
OCS-3	342.00	--	340.90 (48"W) x 6"(H)	339.15 (48"W) x 6"(H)	335.00 (21")
OCS-4	391.25	390.75 (24"W) x 6"(H)	390.00 (18"W) x 48"(H)	339.15 (6"W) x 48"(H)	385.50 (15")



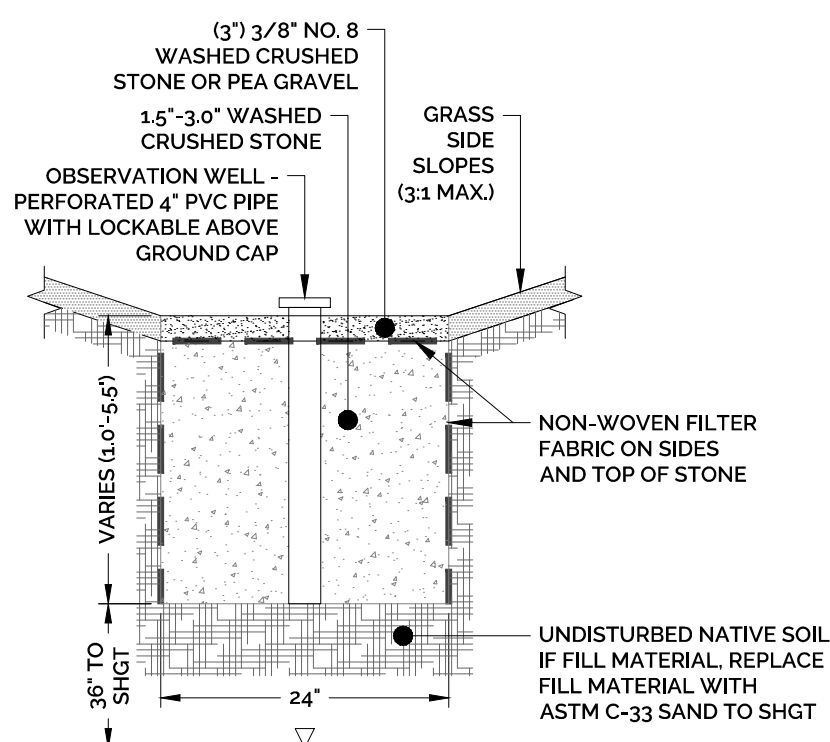
**BASIN OUTLET CONTROL STRUCTURE**  
NOT TO SCALE

**INFILTRATION TRENCH CONSTRUCTION SEQUENCE:**

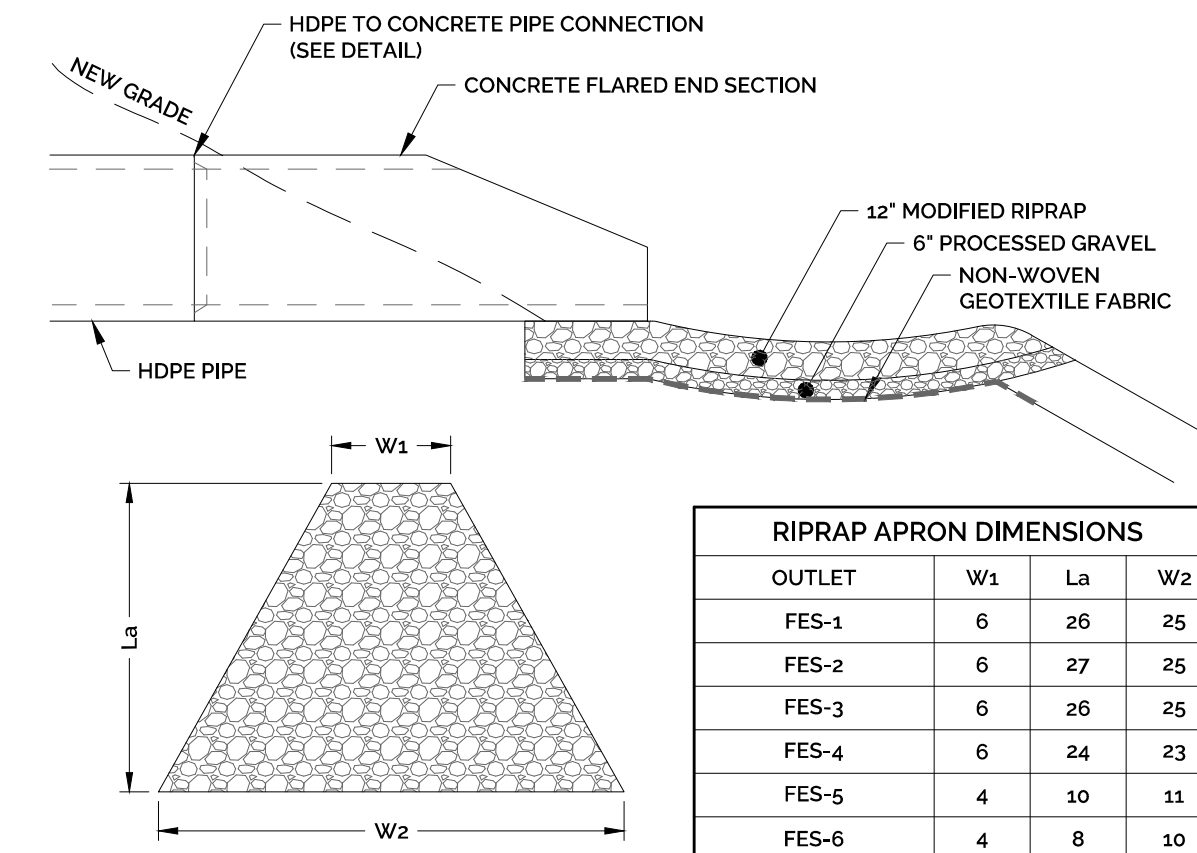
- EXCAVATE TRENCH TO ELEVATION 360.0.
- INSTALL OBSERVATION WELL IN TRENCH. BOTTOM OF OBSERVATION WELL SHALL BE PLACED AT BOTTOM OF TRENCH.
- BACKFILL SAND & STONE IN 6"-9" LIFTS. INSTALL SAND & STONE USING LIGHT EQUIPMENT THAT WILL NOT RESULT IN THE COMPACTION OF THE SOIL WITHIN THE TRENCH.
- DESIGN ENGINEER SHALL INSPECT THE INSTALLATION OF THE INFILTRATION TRENCH DURING THE FOLLOWING STAGES OF CONSTRUCTION:
  - AFTER EXCAVATION OF THE TRENCH AND SCARIFICATION OF BOTTOM AND SIDEWALLS OF EXCAVATION.
  - AFTER INSTALLATION OF THE OBSERVATION WELL AND SAND.
  - AFTER PLACEMENT AND LEVELING OF WASHED STONE LAYER.
  - AFTER PEA GRAVEL SURFACE COVER HAVE BEEN INSTALLED.
- DESIGN ENGINEER SHALL CERTIFY THAT THE SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE DESIGN PLANS.

**INFILTRATION TRENCH MAINTENANCE PLAN:**

- THE INFILTRATION TRENCH SHALL BE CLEANED AT THE END OF CONSTRUCTION ONCE THE CONTRIBUTING AREAS ARE FULLY STABILIZED.
- FOR THE FIRST 6 MONTHS AFTER CONSTRUCTION, THE INFILTRATION TRENCH SHALL BE INSPECTED AFTER MAJOR STORMS (1" OR MORE OF PRECIPITATION).
- AFTER THE FIRST 6 MONTHS OF OPERATION, THE INFILTRATION TRENCH SHALL BE INSPECTED ANNUALLY, AND AN INSPECTION REPORT SHALL BE COMPLETED AND FILED WITH MANAGEMENT STAFF.
- TYPICAL MAINTENANCE SHALL INCLUDE THE FOLLOWING:
- REMOVE TRASH AND ORGANIC DEBRIS (LEAVES).
  - REMOVE SEDIMENT FROM THE INFILTRATION TRENCH SURFACE WHEN THE SEDIMENT ACCUMULATION EXCEEDS 2" OR WHEN DRAWDOWN TIME EXCEEDS 48 HOURS AFTER THE END OF A STORM EVENT, INDICATING THAT THE SOIL MEDIA IS CLOGGED.
  - WEED AS NECESSARY.
  - MOW GRASS WITHIN PROXIMITY OF THE INFILTRATION TRENCH TO A HEIGHT OF 4" TO 6".
  - PERIODICALLY REMOVE GRASS CLIPPINGS TO PREVENT CLOGGING OF THE SURFACE OF THE INFILTRATION TRENCH.

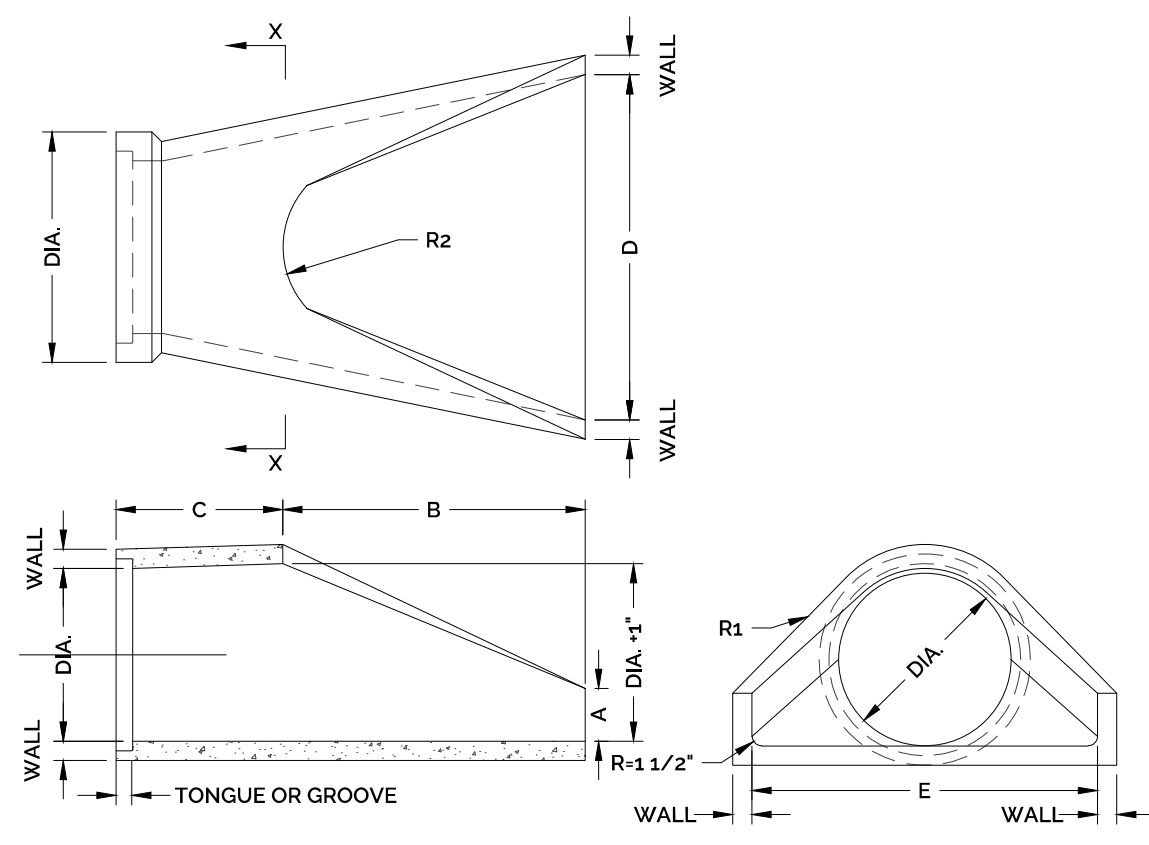


**INFILTRATION TRENCH X-SECTION**  
NOT TO SCALE



NOTE: IN ACCORDANCE WITH CT DOT DRAINAGE MANUAL SECTION 11.13 - OUTLET PROTECTION, THE APRON STONE FOR FES-1, 2, 3, AND 4 SHALL BE STANDARD RIPRAP (DISCHARGE VELOCITIES 10-14 FT/S), AND THE APRON STONE FOR FES-5 AND 6 SHALL BE MODIFIED RIPRAP (DISCHARGE VELOCITIES 0-8 FT/S).

**RIPRAP APRON**  
NOT TO SCALE

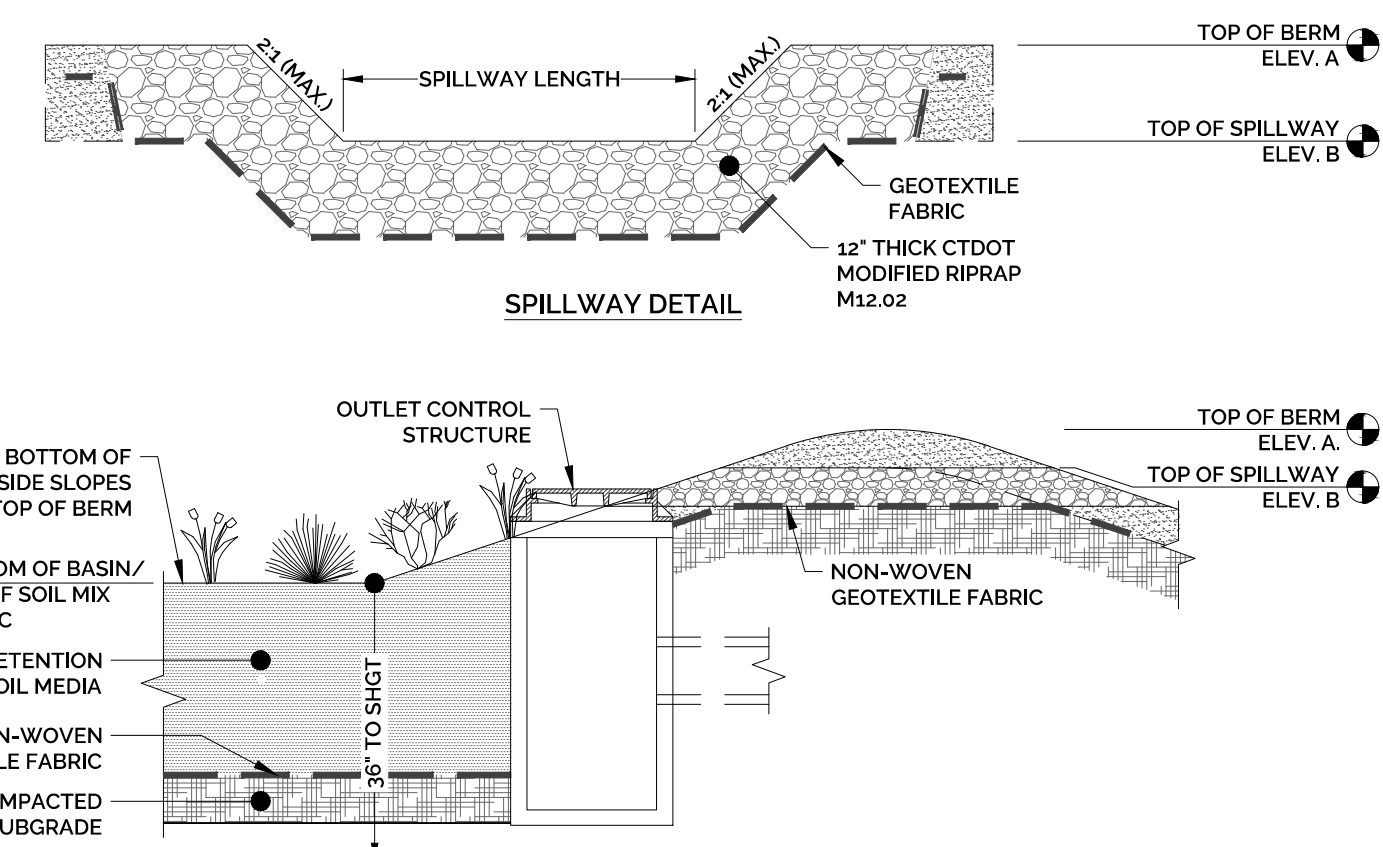


DIA.	A	B	C	D	E	R1	R2
12"	4"	24"	48 7/8"	24"	3"	10 1/4"	9"
15"	6"	27"	45"	30"	3"	12 1/2"	11"
18"	9"	27"	45"	30"	3"	15 1/2"	12"
24"	9 1/2"	43 1/2"	30"	48"	3"	18 13/16"	14"
30"	12"	54"	19 3/4"	60"	3 1/2"	18 1/2"	15"
36"	15"	63"	34 3/4"	72"	4"	24 5/16"	20"
42"	21"	63"	35"	78"	4 1/2"	27 1/2"	22"
48"	24"	72"	20"	84"	5"	28 1/2"	22"
54"	27"	65"	35"	90"	5 1/2"	33 1/8"	24"
60"	30"	60"	39"	96"	6"	36 11/16"	24"

- REINFORCED CONCRETE PIPE CONFORMS TO ASTM C-76, ASTM-C-443, ASHTO M-170, AND ASHTO M-198.
- NOTES:
- ALL PRECAST CONCRETE PRODUCTS MUST HAVE THE CASTING DATE CLEARLY LABELED AND SHALL NOT BE DELIVERED WITHIN 7 DAYS OF THE CASTING DATE.
  - JOINT SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT AS REQUIRED TO CONFORM TO PIPE INSTALLED.
  - WALL THICKNESS SHALL CONFORM TO PIPE THICKNESS.

**REINFORCED CONCRETE FLARED END SECTION**  
NOT TO SCALE

BASIN ELEVATIONS			
BASIN ID	TOP OF BERM ELEV. A	TOP OF SPILLWAY ELEV. B	BOT. OF BASIN ELEV. C
WATER QUALITY BASIN	357.00	356.50	354.00
BASIN 'A'	347.50	347.00	343.50
BASIN 'B'	344.00	343.00	338.00
BASIN 'C'	392.00	391.50	388.00



**BIORETENTION BASIN CONSTRUCTION SEQUENCE:**

- REMOVE EXISTING TOPSOIL, SURFACE LEAF LITTER, ETC. FROM BIORETENTION BASIN AREA AND STOCKPILE FOR REUSE.
- AVOID COMPACTION OF NATURAL SOILS WITHIN BOTTOM AREA OF BIORETENTION BASIN BY CONSTRUCTION EQUIPMENT. THE AREA OF THE BIORETENTION BASIN SHALL BE MARKED OFF BY APPROPRIATE FENCING TO PREVENT THE MOVEMENT OF CONSTRUCTION VEHICLES OVER AND THE POSSIBLE COMPACTION OF THE NATURAL SOILS.
- SCARIFY NATURAL SOILS WITHIN THE BOTTOM OF BASIN PRIOR TO PLACING SOIL MEDIA.
- MIX BIORETENTION SOIL MEDIA. SOIL MEDIA SHALL CONSIST OF THE FOLLOWING:
  - 60-85% ASTM C-33 SAND
  - 15-25% TOPSOIL. TOPSOIL SHOULD CONTAIN 5-20% ORGANIC MATERIAL, HAVE LESS THAN 5% CLAY, BE A SANDY LOAM, LOAMY SAND OR LOAM, AND HAVE A pH RANGE OF 5.5-7.0.
  - 3-8% ORGANIC MATTER. ORGANIC MATTER SHALL CONSIST OF PARTIALLY DECOMPOSED PEAT MOSS (100% PASSING THE 1/2" SIEVE) OR WOOD DERIVATIVES (SHREDDED WOOD, WOOD CHIPS, GROUND BARK).
- SOIL MEDIA PROVIDE FOR A MINIMUM INFILTRATION RATE OF 1.0 INCHES/HOUR. CONTRACTOR SHALL HAVE THE SOIL MEDIA TESTED PRIOR TO PLACEMENT. THE DESIGN ENGINEER SHALL REVIEW AND CERTIFY THAT THE SOIL MEDIA MEETS THE SOIL MEDIA SPECIFICATIONS.
- PLACE SOIL MEDIA IN THE BASIN IN 6"-12" LIFTS USING LIGHT EQUIPMENT. ALLOW SOIL TO SETTLE NATURALLY THROUGH RAIN EVENTS OR PRESOAK AFTER PLACEMENT.
- SIDE SLOPES AND ALL AREAS DISTURBED OUTSIDE THE BASIN SHALL BE FINE GRADED WITH 6" TOPSOIL, RAKED, SEED, AND MULCHED.
- SEED BOTTOM OF BASIN WITH NEW ENGLAND WETLAND PLANTS, INC. ROADSIDE SEED MIX AT 1 LB/1,250 S.F. OR EQUIVALENT. SEEDING SHALL BE QUICKLY ESTABLISHED AND MAINTAINED TO PREVENT ANY SILT ACCUMULATION ALONG THE BOTTOM OF THE BASIN. MINIMUM VEGETATIVE COVERAGE OF 90% SHALL BE TARGETED AND MAINTAINED.
- BIORETENTION BASIN SHALL NEVER BE USED FOR SEDIMENT CONTROL DURING AN ACTIVE CONSTRUCTION PERIOD.
- DURING CONSTRUCTION, SEDIMENT SHALL BE PREVENTED FROM ENTERING THE AREA OF THE BASIN. THE CONTRACTOR SHALL ENSURE THAT THE AREAS DRAINING TO THE BIORETENTION BASIN ARE STABILIZED IN A TIMELY MANNER AND MAINTAINED OVER THE ENTIRE AREA DRAINING TO THE BASIN.
- DESIGN ENGINEER SHALL INSPECT THE INSTALLATION OF THE BIORETENTION BASIN DURING THE FOLLOWING STAGES OF CONSTRUCTION:
  - AFTER EXCAVATION OF THE BASIN AND SCARIFICATION OF BOTTOM AND SIDEWALLS OF EXCAVATION.
  - AFTER PLACEMENT OF BIORETENTION SOIL MEDIA.
- A LICENSED LAND SURVEYOR SHALL PROVIDE AN AS-BUILT OF THE DETENTION BASIN/SAND FILTER. DESIGN ENGINEER SHALL CERTIFY THAT THE SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE DESIGN PLANS.

**BIORETENTION BASIN MAINTENANCE PLAN:**

- IN THE FIRST 6 MONTHS FOLLOWING CONSTRUCTION, THE BIORETENTION BASIN SHALL BE INSPECTED AFTER STORM EVENTS OF 1" OR GREATER. FOLLOWING THE FIRST 6 MONTHS, THE BASIN SHALL BE INSPECTED EVERY 6 MONTHS (SPRING AND FALL) AND/OR AFTER STORM EVENTS OF 2" OR GREATER. INSPECTIONS SHALL INCLUDE THE FOLLOWING:
  - INSPECT SOIL MEDIA FOR STANDING WATER OR OTHER EVIDENCE OF CLOGGING.
  - CHECK FOR SEDIMENT ACCUMULATION, TRASH AND DEBRIS.
  - CHECK FOR BLOCKAGES, STRUCTURAL INTEGRITY, AND EVIDENCE OF EROSION AT INLETS/OUTLETS.
- REGULAR MAINTENANCE INCLUDES THE FOLLOWING:
  - REMOVE SEDIMENT, TRASH AND DEBRIS.
  - REMOVE ACCUMULATED SEDIMENT FROM THE BASIN WHEN THE SEDIMENT ACCUMULATION EXCEEDS 1" OR WHEN DRAWDOWN TIME EXCEEDS 48 HOURS AFTER THE END OF A STORM EVENT. REPLACE WITH FRESH BIORETENTION SOIL MEDIA THAT CONFORMS TO THE SPECIFICATIONS IN THIS SECTION.
  - MAINTAIN VEGETATED FILTER STRIPS OR GRASSED SIDE SLOPES OF BIORETENTION SYSTEM.
  - MOW THE BASIN IN THE FALL AFTER THE FIRST KILLING FROST TO REMOVE SAPLINGS AND WOODY BRUSH AND SUBSEQUENT PERIODIC MOVING FOR MAINTENANCE. MOVING SHOULD NOT BE PERFORMED WHEN THE GROUND IS SOFT TO AVOID THE CREATION OF RUTS AND COMPACTION, WHICH CAN REDUCE INFILTRATION.
  - PERIODICALLY REMOVE GRASS CLIPPINGS TO PREVENT CLOGGING OF THE SURFACE OF THE BIORETENTION SYSTEM.
  - REMOVE ANY INVASIVE SPECIES (INCLUDING ROOTS) THAT HAVE BECOME ESTABLISHED WITHIN THE BASIN AND EMBANKMENTS.
- BIORETENTION BASIN REQUIRES OTHER SEASONAL LANDSCAPE MAINTENANCE INCLUDING:
  - WATERING PLANTS AS NECESSARY DURING FIRST GROWING SEASON.
  - WATERING AS NECESSARY DURING DRY PERIODS.
  - REPLACING DEAD OR DYING PLANTS, OR PRUNING PLANTS, AS NECESSARY.
  - INSPECTION OF SOIL AND REPAIRING ERODED AREAS.

REV.	DESCRIPTION OF REVISION	DATE	BY	APPR.
1	REVISIONS IN RESPONSE TO REVIEW COMMENTS	8/15/2025		

**STORMWATER MANAGEMENT DETAILS**

**23-Lot Residential Resubdivision**  
PROPERTY ADDRESS:  
47 SHARP HILL ROAD, MONTVILLE, CT 06382  
PREPARED FOR:  
**MT KINEO BUILDERS, LLC**  
P.O. BOX 246, WEST MYSTIC, CT 06388

PROJECT NO. 2025-0197	SCALE AS NOTED
DRAWN BY: SM	DATE 7/10/2025
CHECKED BY: SM	DATE 7/10/2025

**DRAWING**  
**DT-4**

