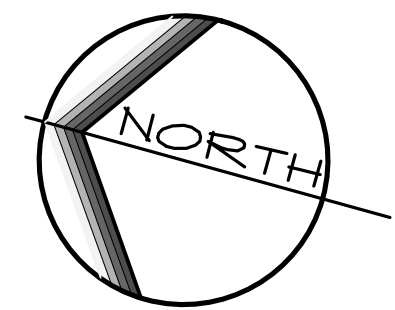
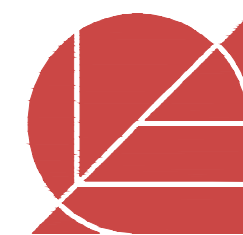
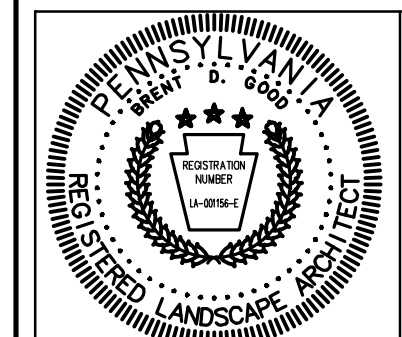




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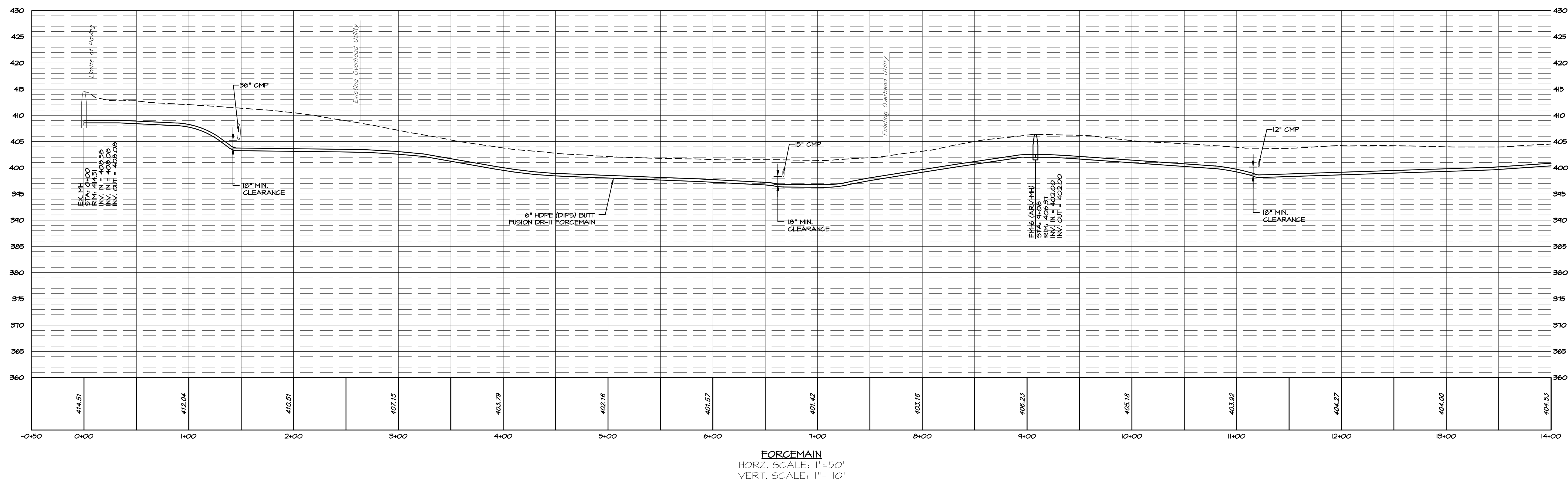


FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

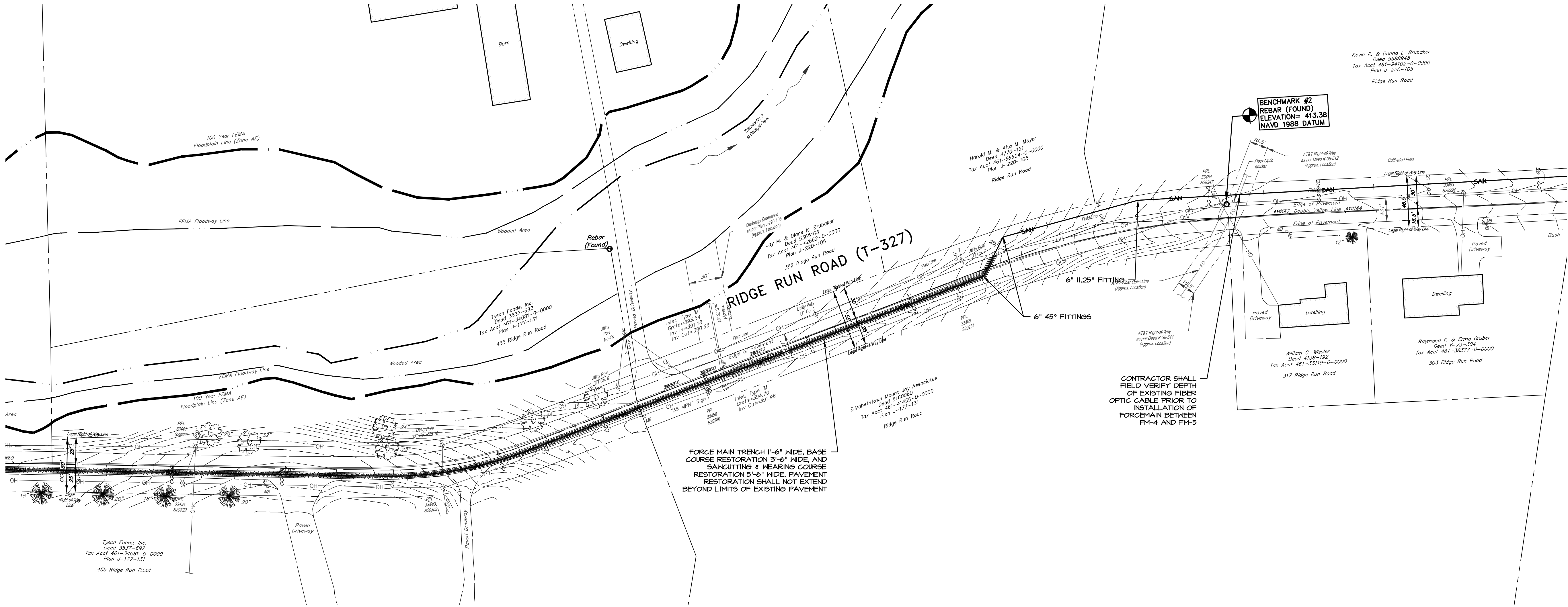
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

CAD DESIGNER:	TBS	SCALE:	1" = 50'
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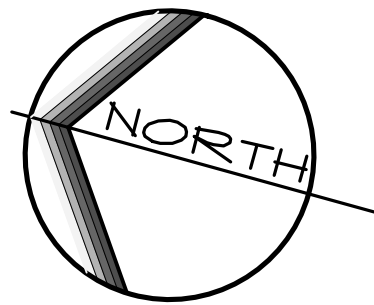
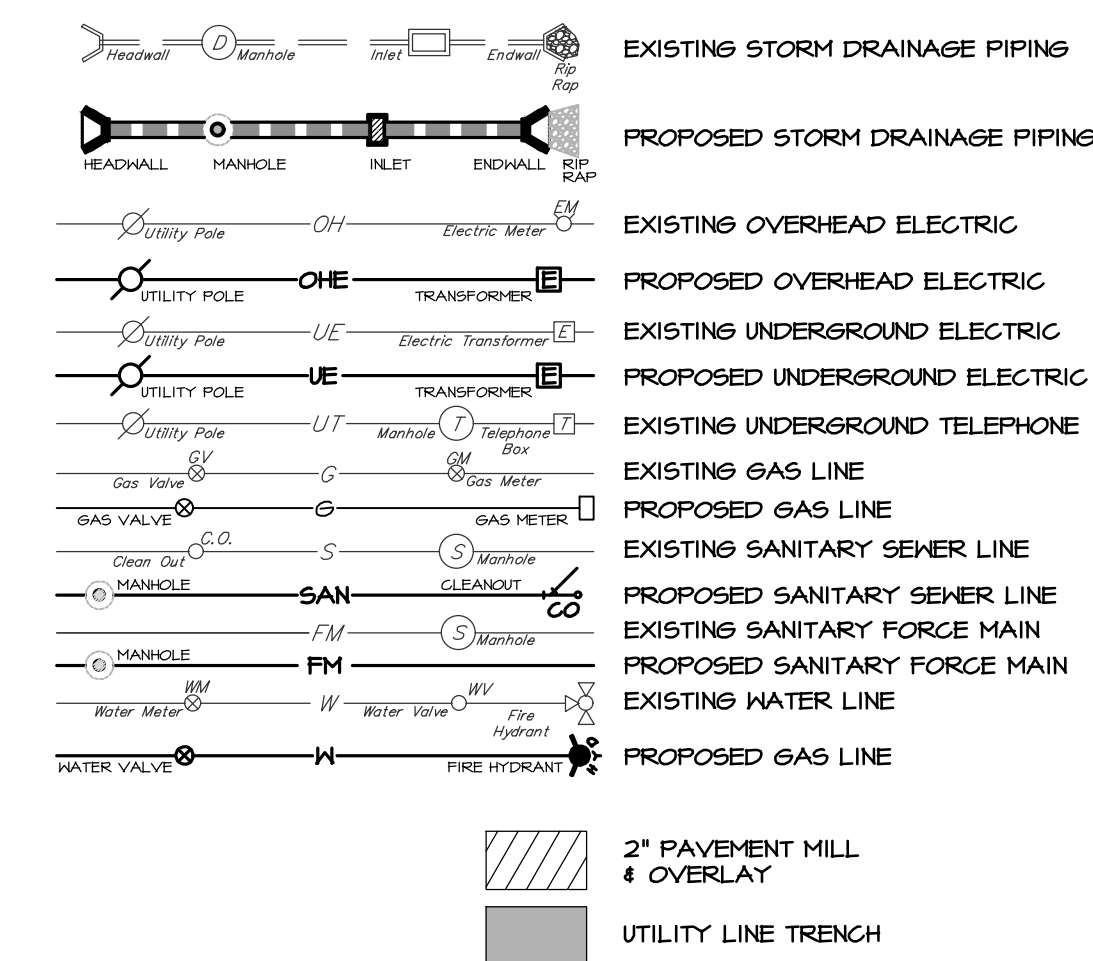
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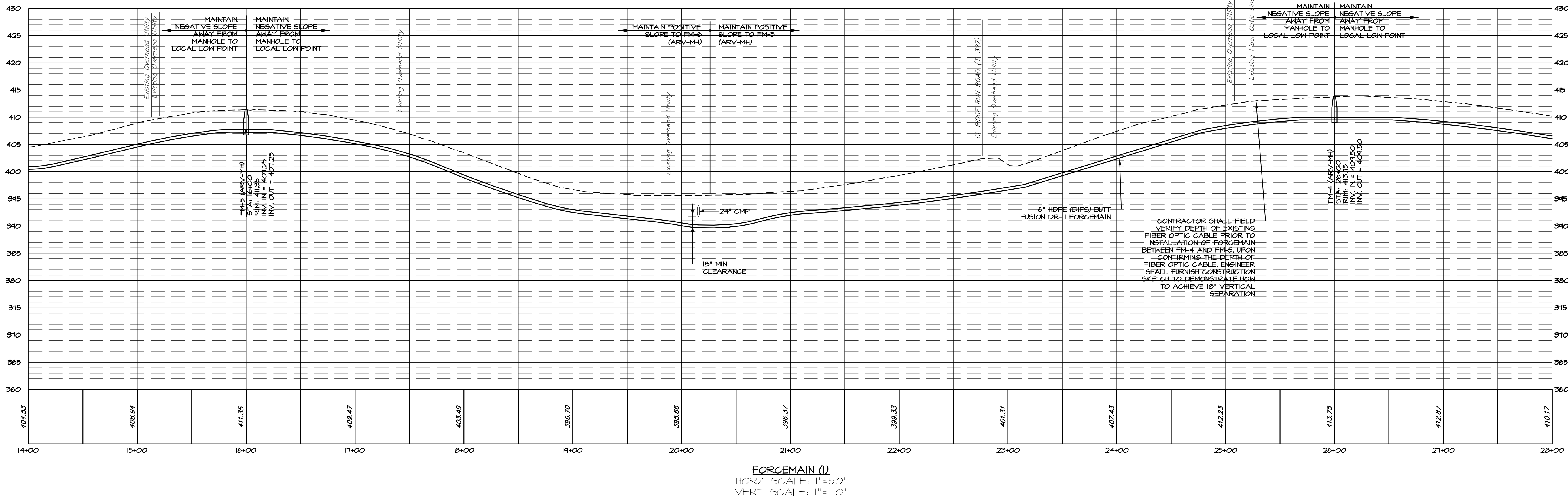
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UTILITY LEGEND

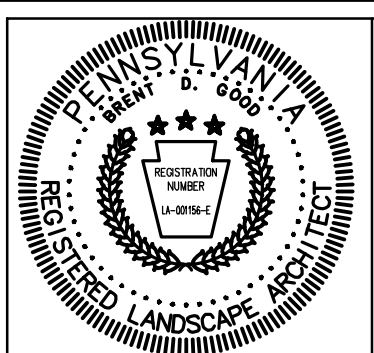


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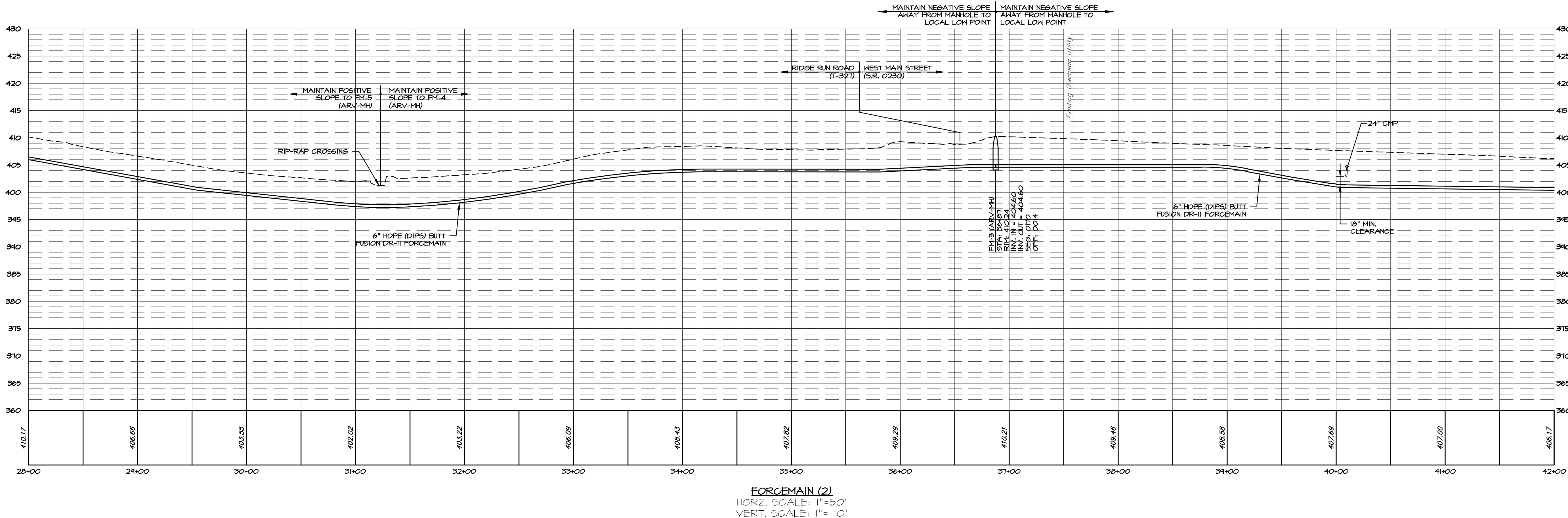
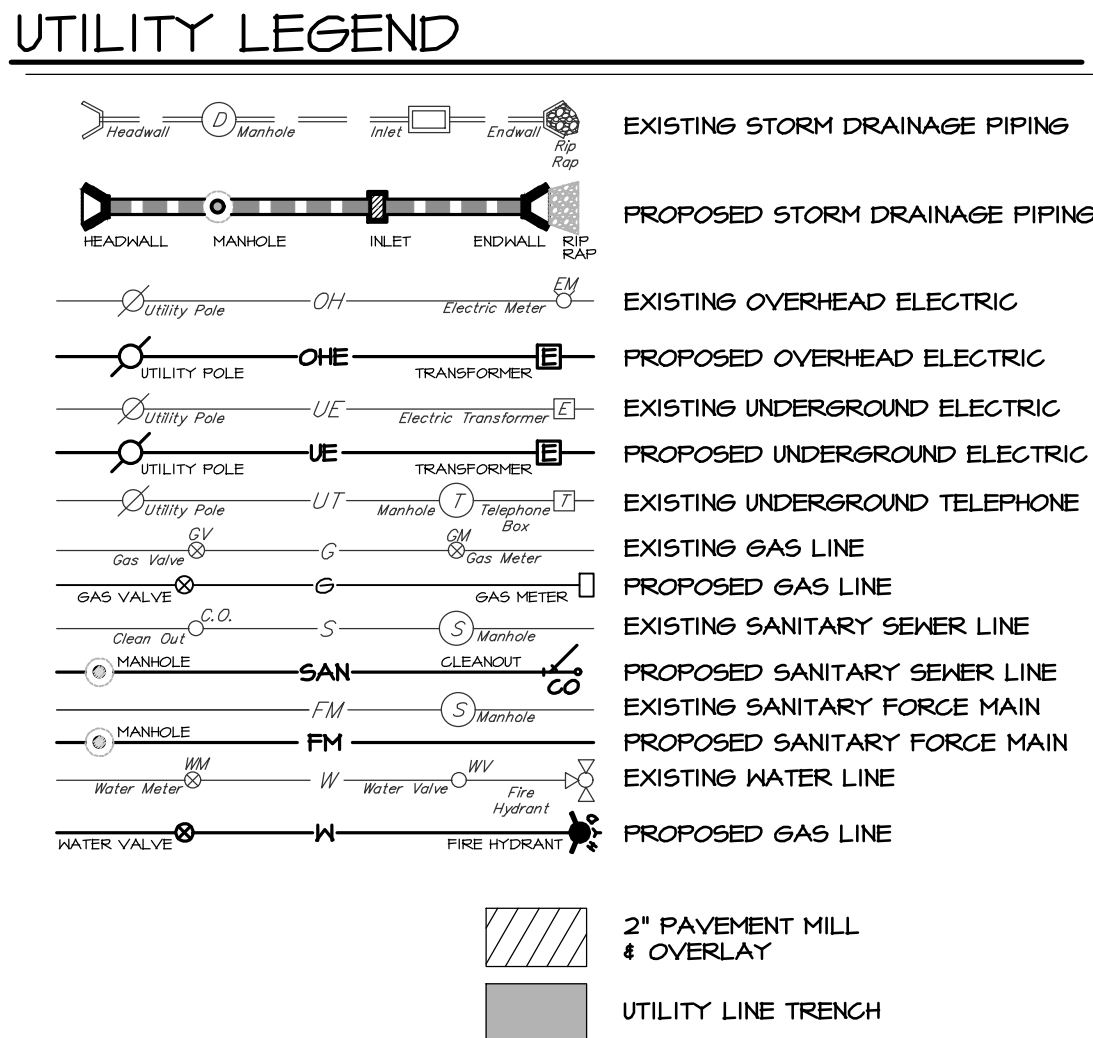
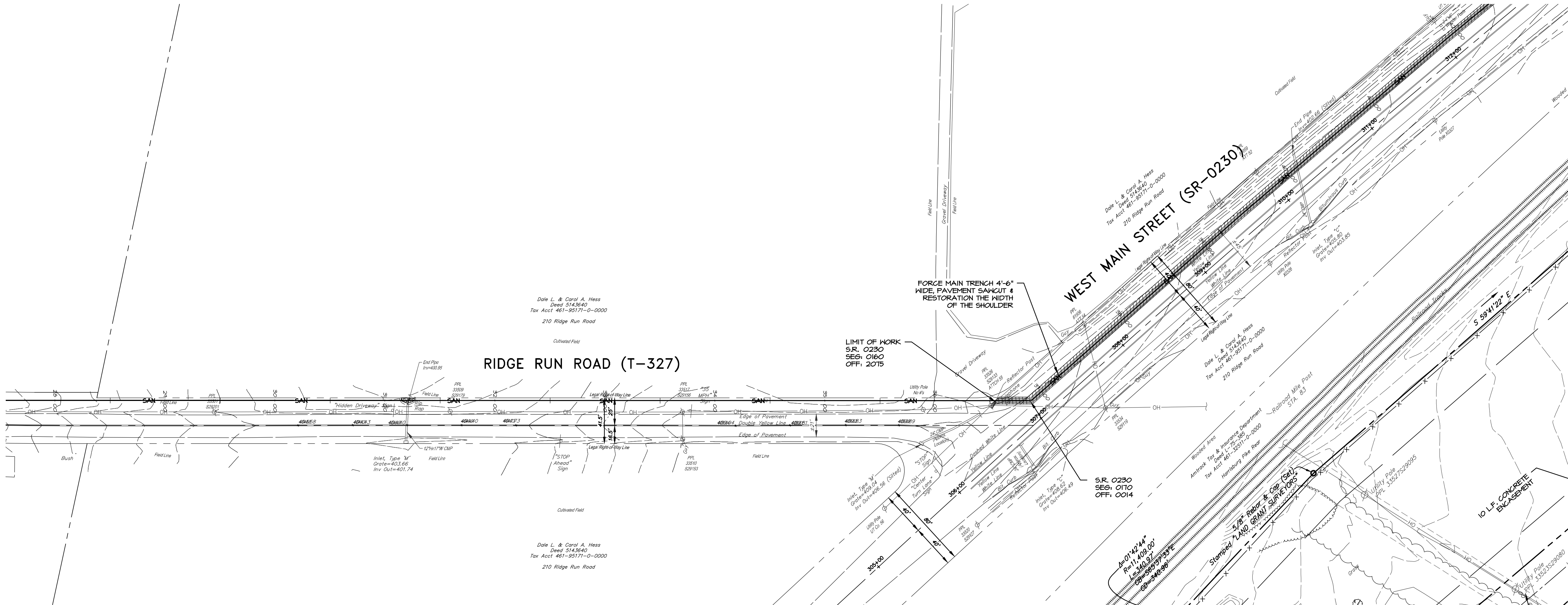


FINAL PHASE 1 PLAN
SUBJECT:
UTILITY PLAN & PROFILES
FOR
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MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = 50'

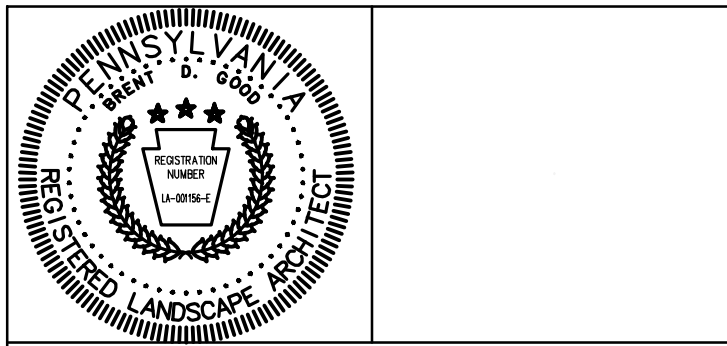
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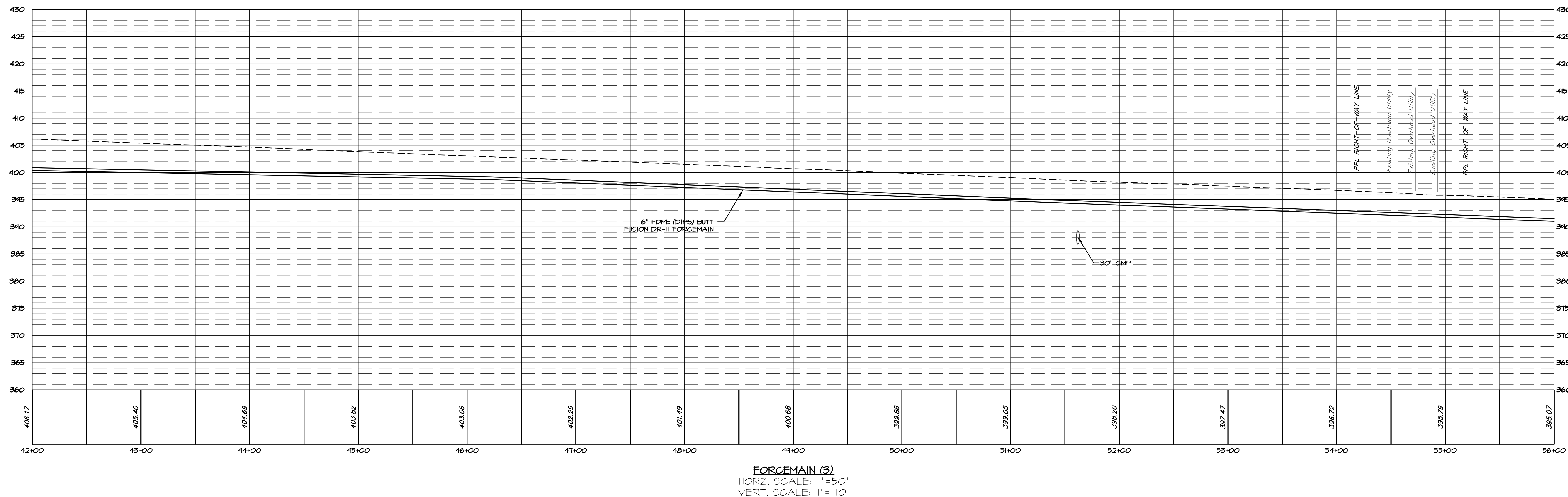
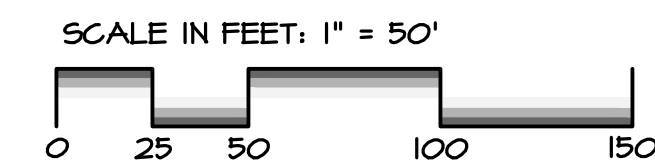
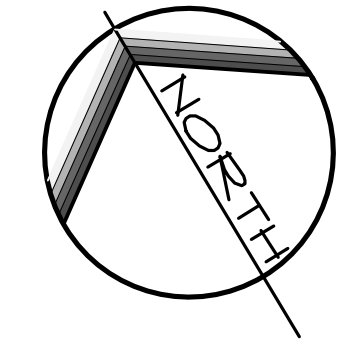
FINAL PHASE 1 PLAN

SUBJECT:
UTILITY PLAN & PROFILES

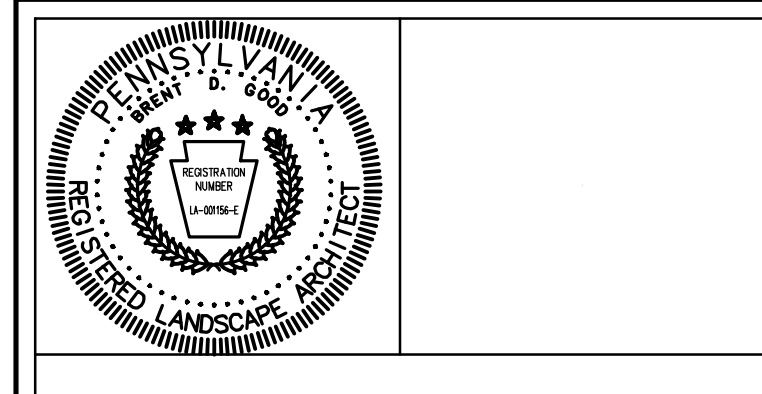
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = 50'



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MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = 50'

1. ALL WORK ON OR ADJACENT RAILROAD PROPERTY MUST COMPLY WITH AMTRAK ENGINEERING PRACTICES EP3014 - MAINTENANCE AND PROTECTION OF RAILROAD TRAFFIC DURING CONTRACTOR OPERATIONS.

3. ALL UNDERGROUND UTILITIES, CABLES, AND FACILITIES MUST BE LOCATED AND PROTECTED BEFORE ANY EXCAVATING, DRILLING, BORING, OR DIGGING OPERATIONS ARE INITIATED. THE CONTRACTOR OR CONSTRUCTION TAKES FULL RESPONSIBILITY FOR LOCATING ALL COMMERCIAL UTILITIES, CABLES, DUCT LINES, AND FACILITIES. THESE ACTIVITIES WILL NOT BE PERFORMED IN CLOSE PROXIMITY TO THE EXISTING HIGHWAY RIGHT-OF-WAY. THE CONTRACTOR SHALL PROVIDE COMMUNICATIONS AND SIGNAL (CAS) DEPARTMENT PERSONNEL, HAND DIGGING MAY BE REQUIRED, AS DIRECTED BY AMTRAK THROUGH THE CONTRACTOR'S AUTHORITY TO PROTECT EXISTING UTILITIES. THE RIGHT TO ACCESS ALL EXISTING CABLES AND CONDUITS THROUGHOUT CONSTRUCTION. AMTRAK ALSO RESERVES THE RIGHT TO UPGRADE AND INSTALL NEW CABLES AND CONDUITS IN THE EXISTING HIGHWAY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE AWARE THAT AMTRAK IS NOT PART OF THE ONE-CALL PROCESS; CONTACT AMTRAK ENGINEERING TO HAVE ALL RAILROAD UTILITIES LOCATED. THE CONTRACTOR SHALL BE ADVISED BY AMTRAK, EXISTING DEPTHS OF UTILITIES BEING CROSSED MUST BE VERIFIED THROUGH TEST PITS PERFORMED BY THE CONTRACTOR AS DIRECTED BY AND UNDER THE DIRECT SUPERVISION OF AMTRAK. CAS SUPERVISOR SHALL BE NOTIFIED IN ADVANCE TO PREVENT ANY INTERRUPTION TO RAILROAD OPERATION.

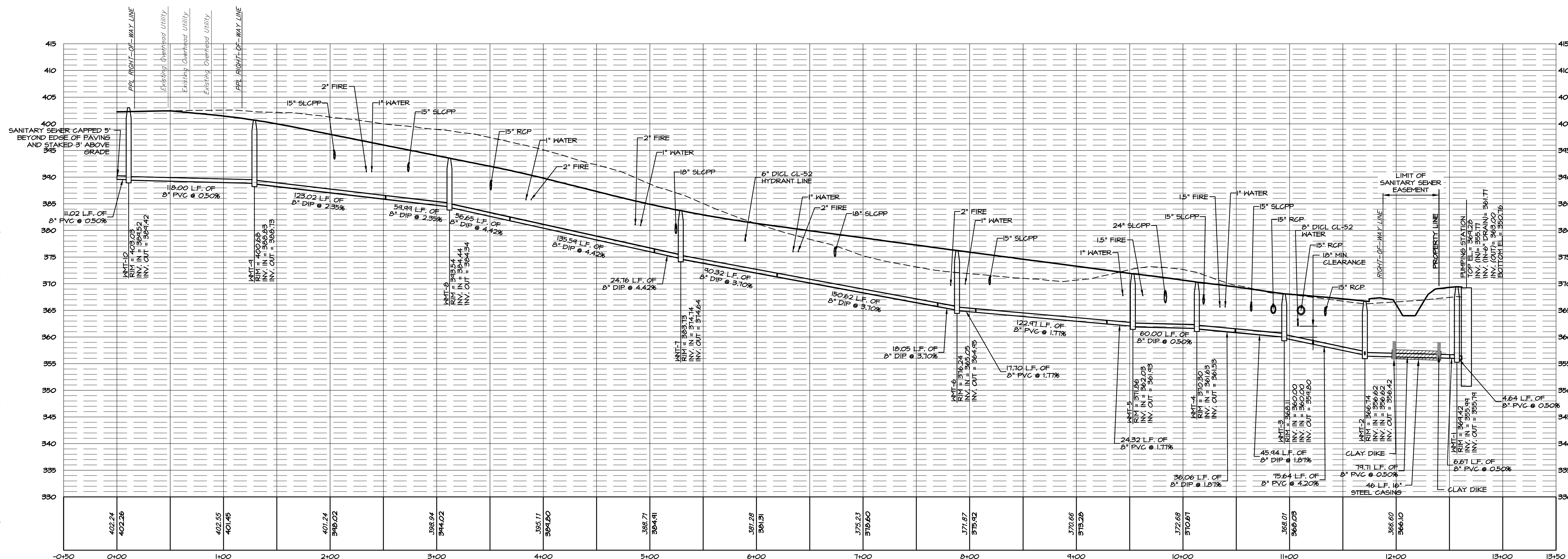
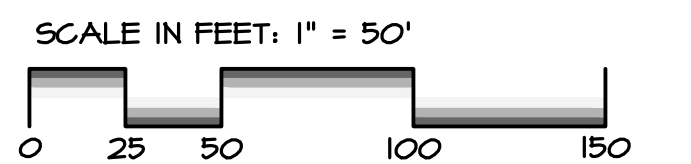
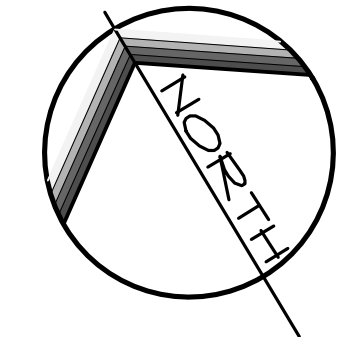
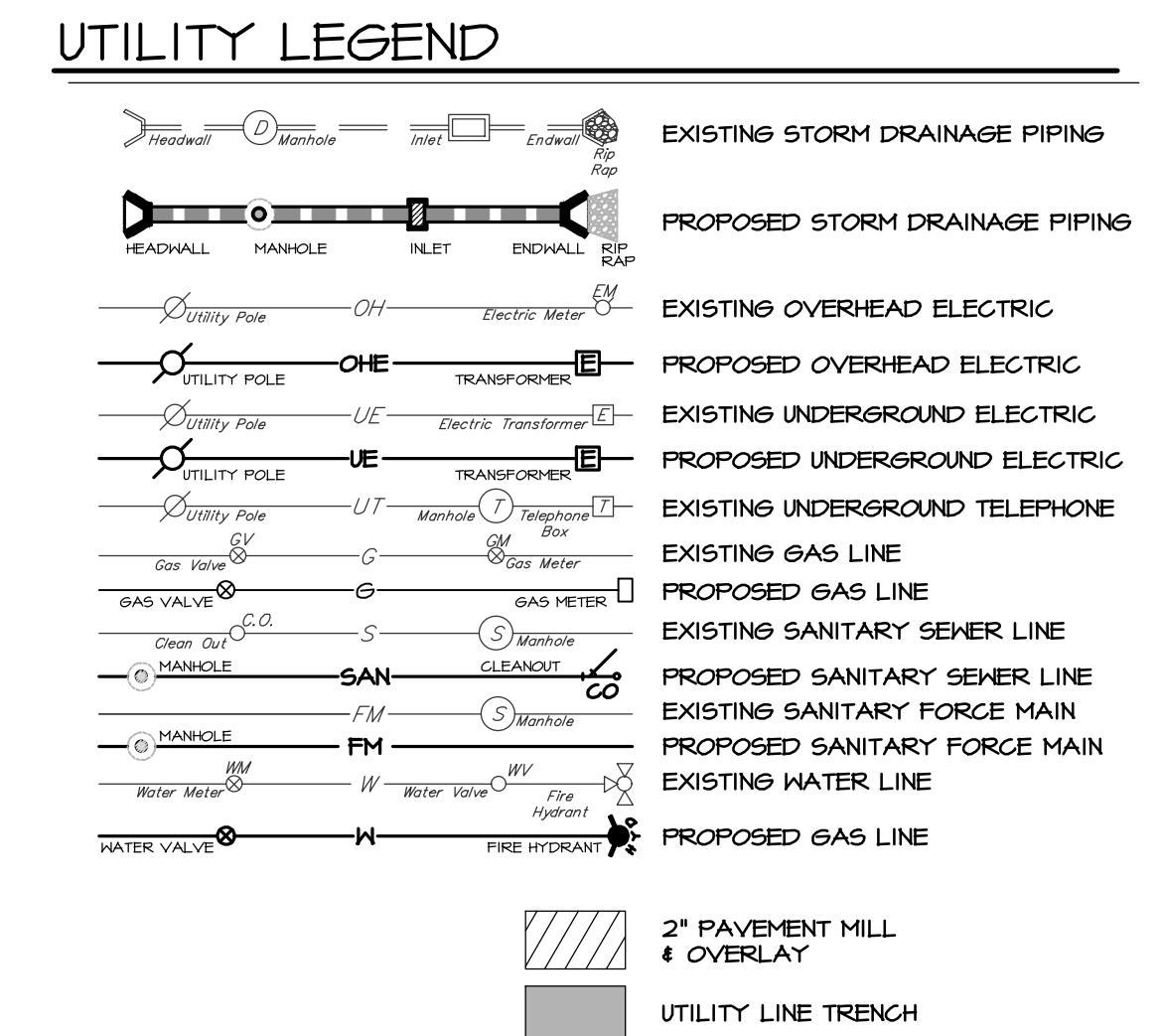
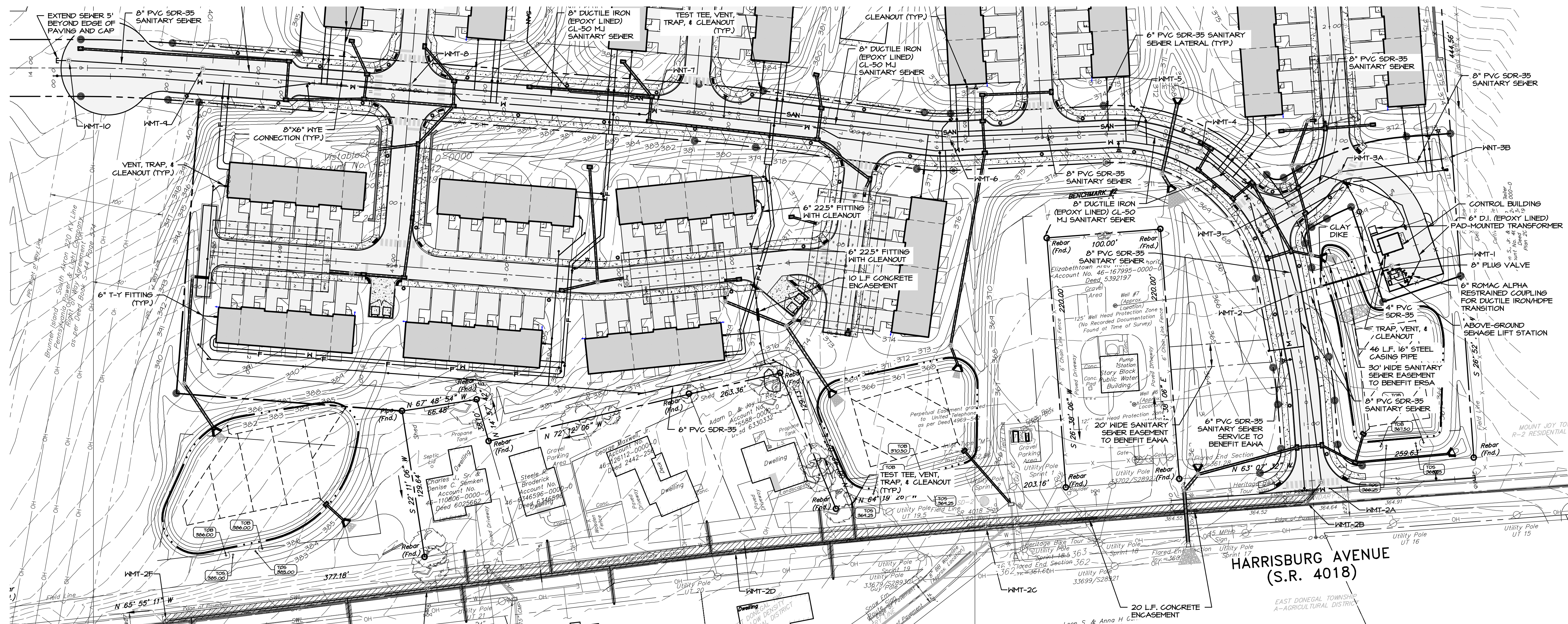
5. PRIOR TO ENTERING AMTRAK'S PROPERTY FOR ANY WORK, THE CONTRACTOR MUST EXECUTE AMTRAK'S STANDARD TEMPORARY PERMIT TO ENTER UPON PROPERTY (PTE). THE FULLY EXECUTED PTE, WRITTEN NOTICE TO PROCEED FROM AMTRAK THAT ALL REQUIREMENTS OF THE PTE HAVE BEEN MET AND PROOF OF SAFETY TRAINING MUST, AT ALL TIMES, BE FURNISHED BY THE CONTRACTOR AT THE PROJECT SITE.

7. ANY DEBRIS OR DAMAGE RESULTING FROM WORK SHALL BE IMMEDIATELY REPORTED TO THE RAILROAD. RAILROAD SHALL BE REPAIRED BY RAILROAD FORCES AT PROJECT EXPENSE.

SANITARY SEWER FORCEMAIN PRESSURIZED TO 70 PSI @ 6.4'
DEPTH

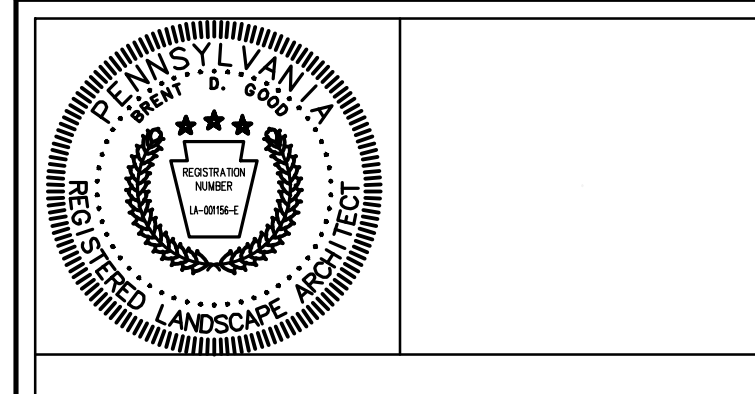


DRAWING NO.
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STREET A SANITARY SEWER
HORIZ. SCALE: 1"=50'
VERT. SCALE: 1"= 10'

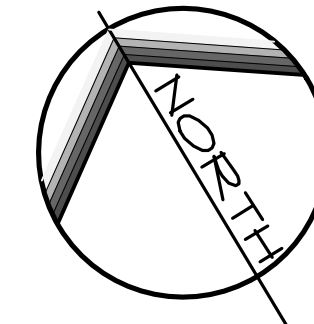
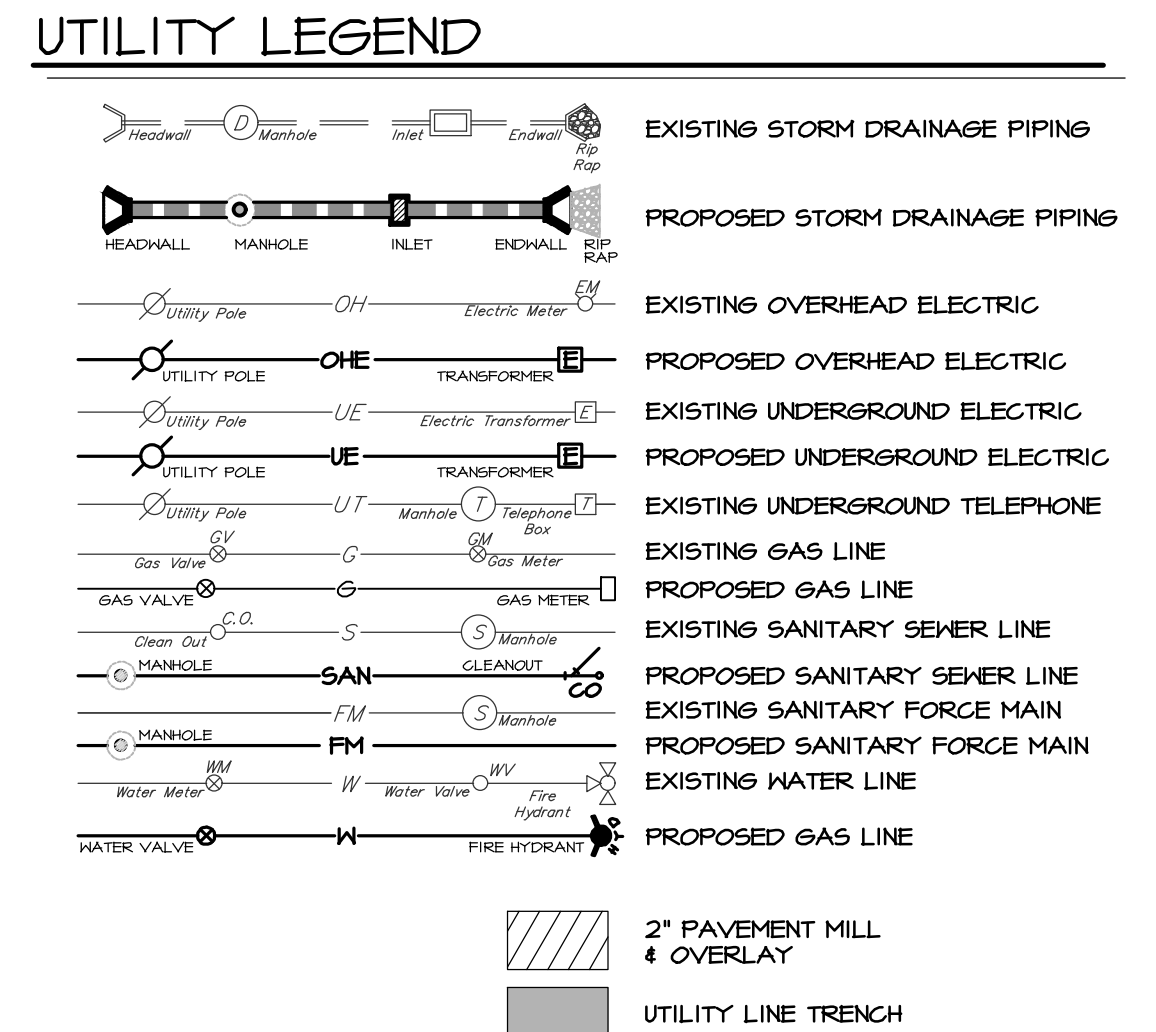
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FINAL PHASE 1 PLAN
SUBJECT: UTILITY PLAN & PROFILES
FOR WESTMOUNT MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT: VISTABLOCK, LLC 150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = 50'

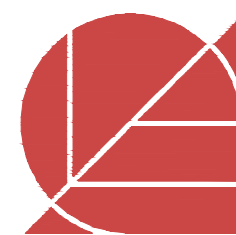
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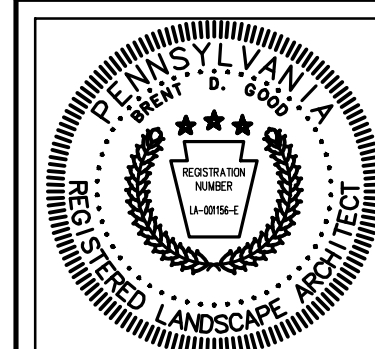
SCALE IN FEET: 1" = 50'



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3. -	-	-
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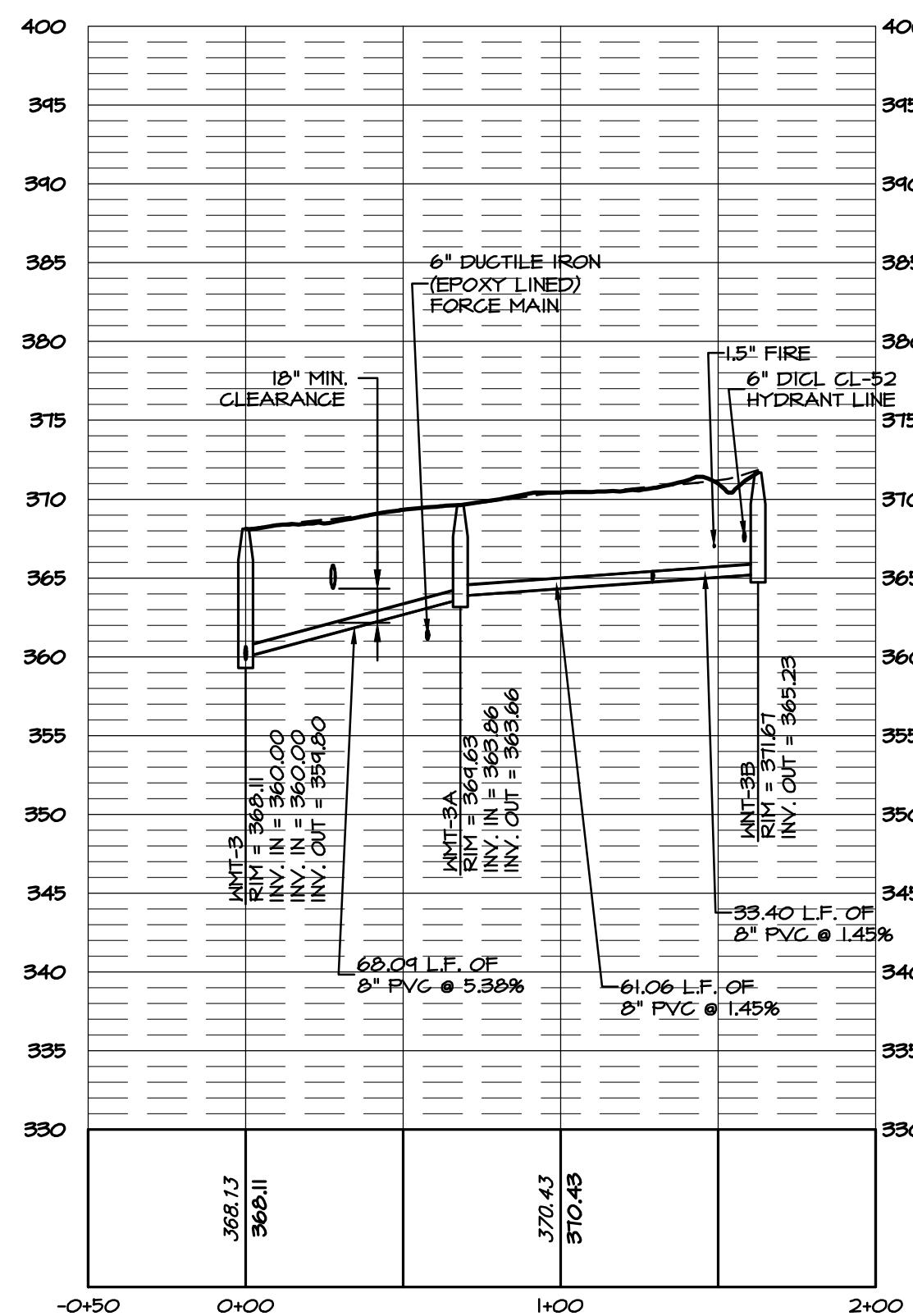
FINAL PHASE 1 PLAN

SUBJECT:
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FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

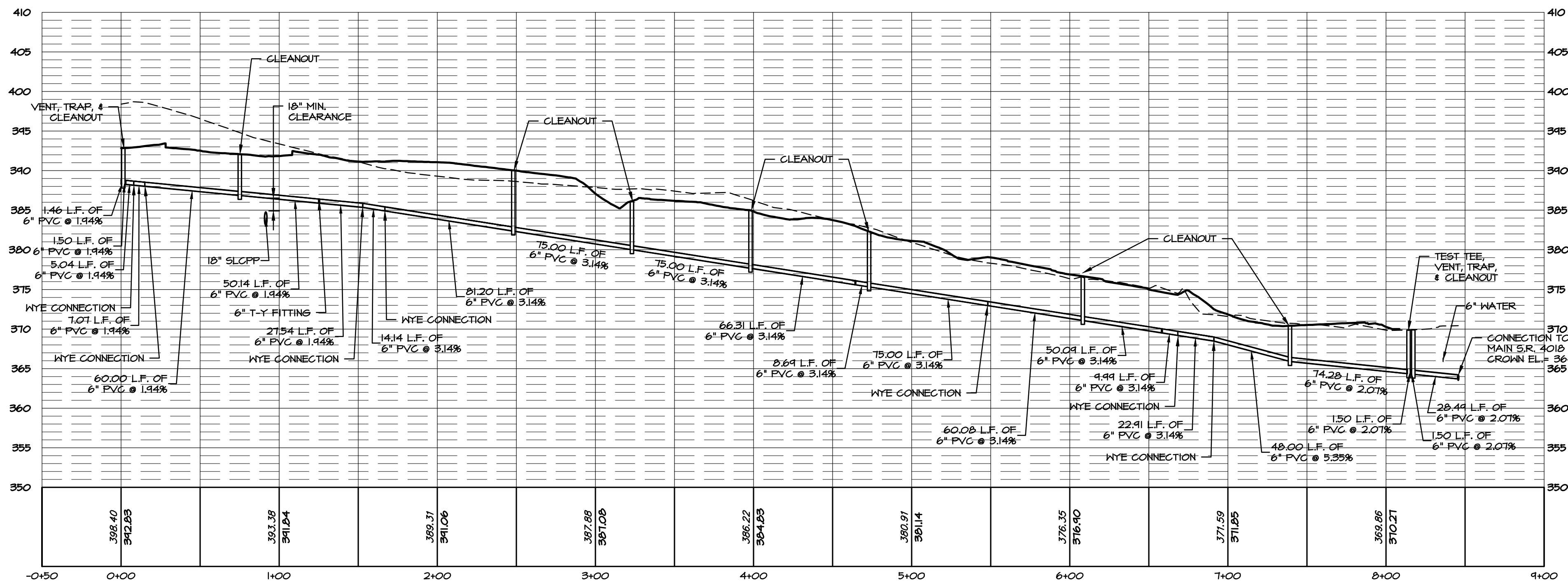
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ENGINEER: TEH PROJECT NO. 1212-004
CAD DESIGNER: TRS SCALE: 1" = 50'

DRAWING NO.

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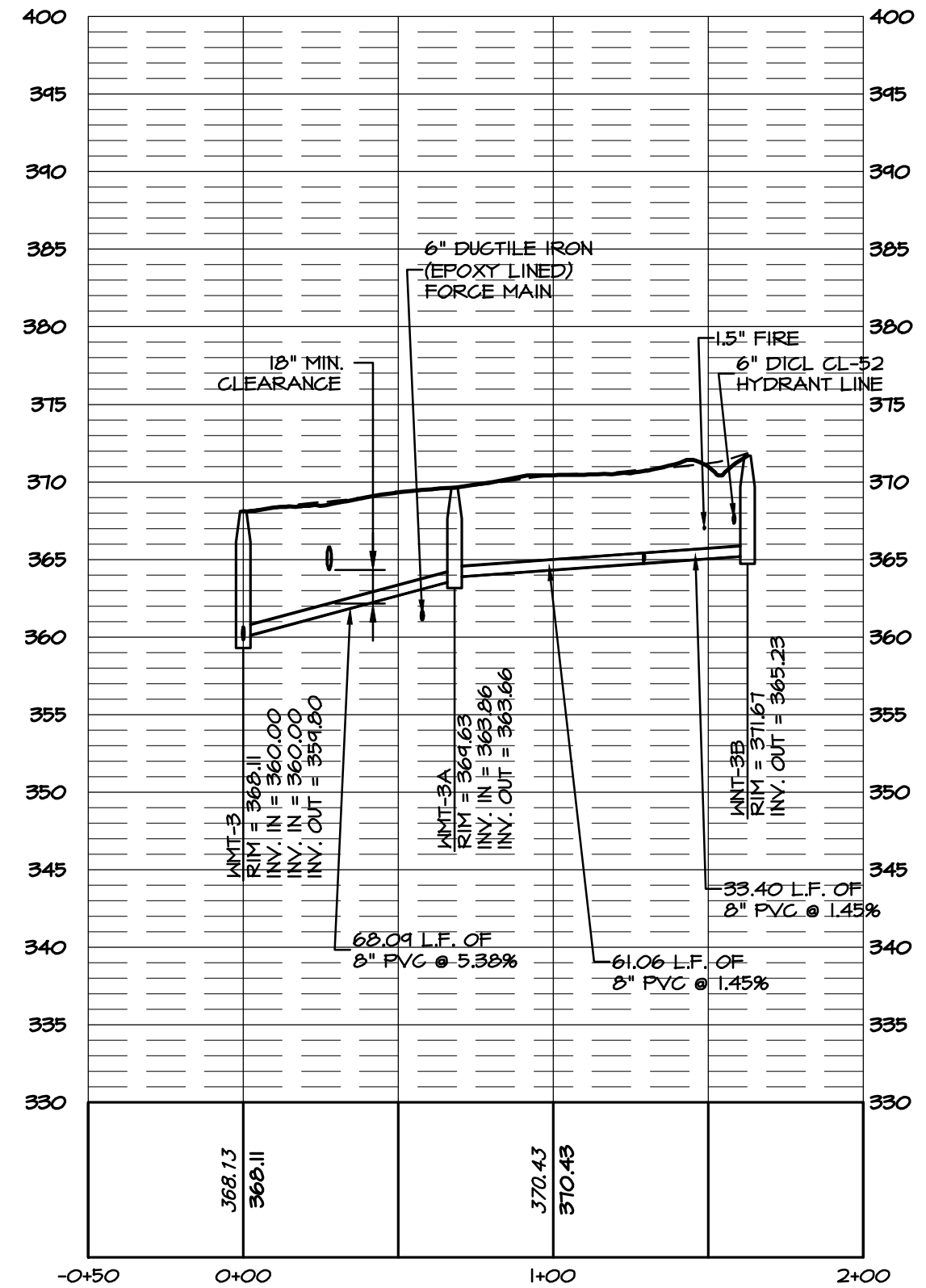
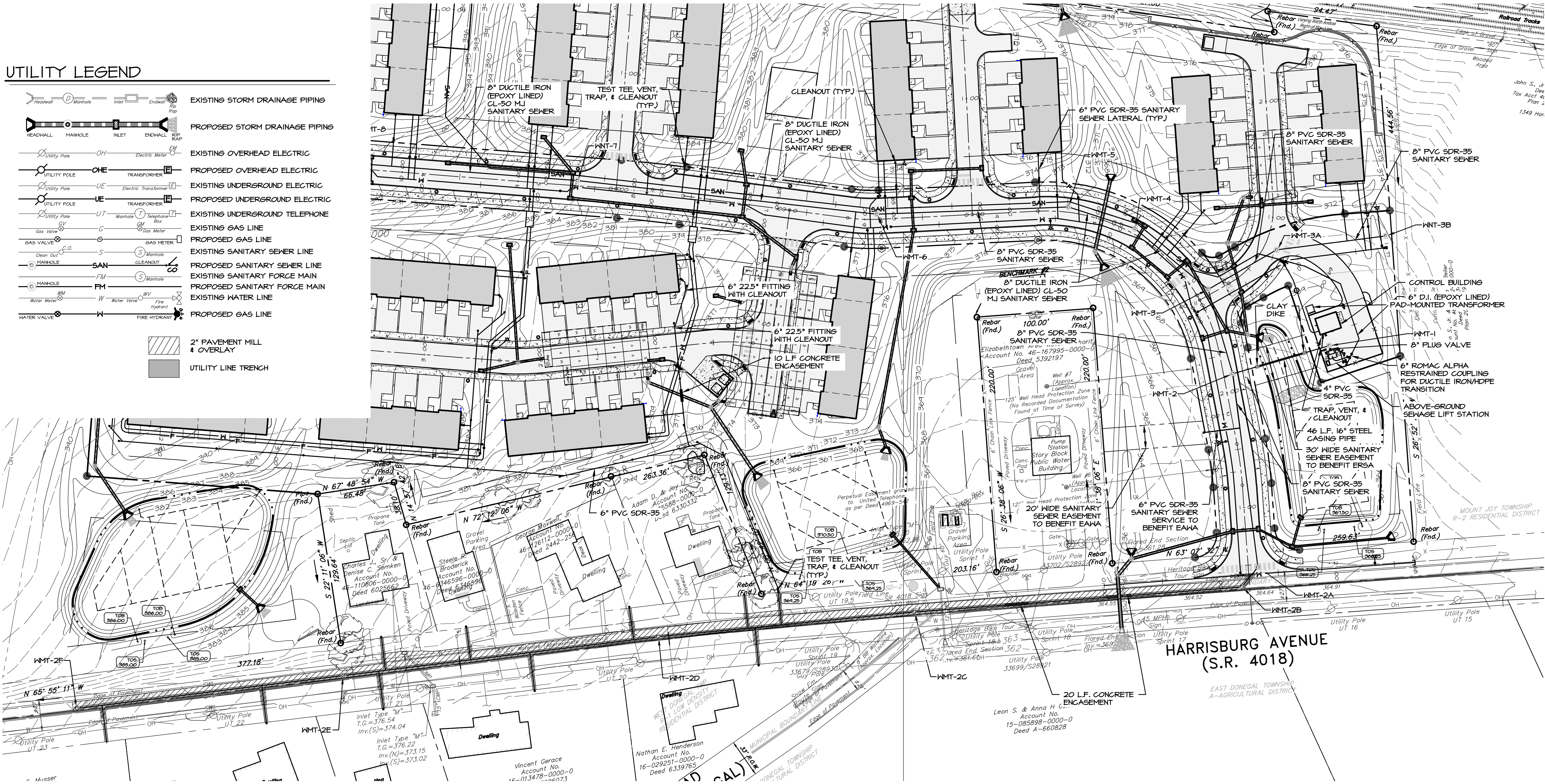
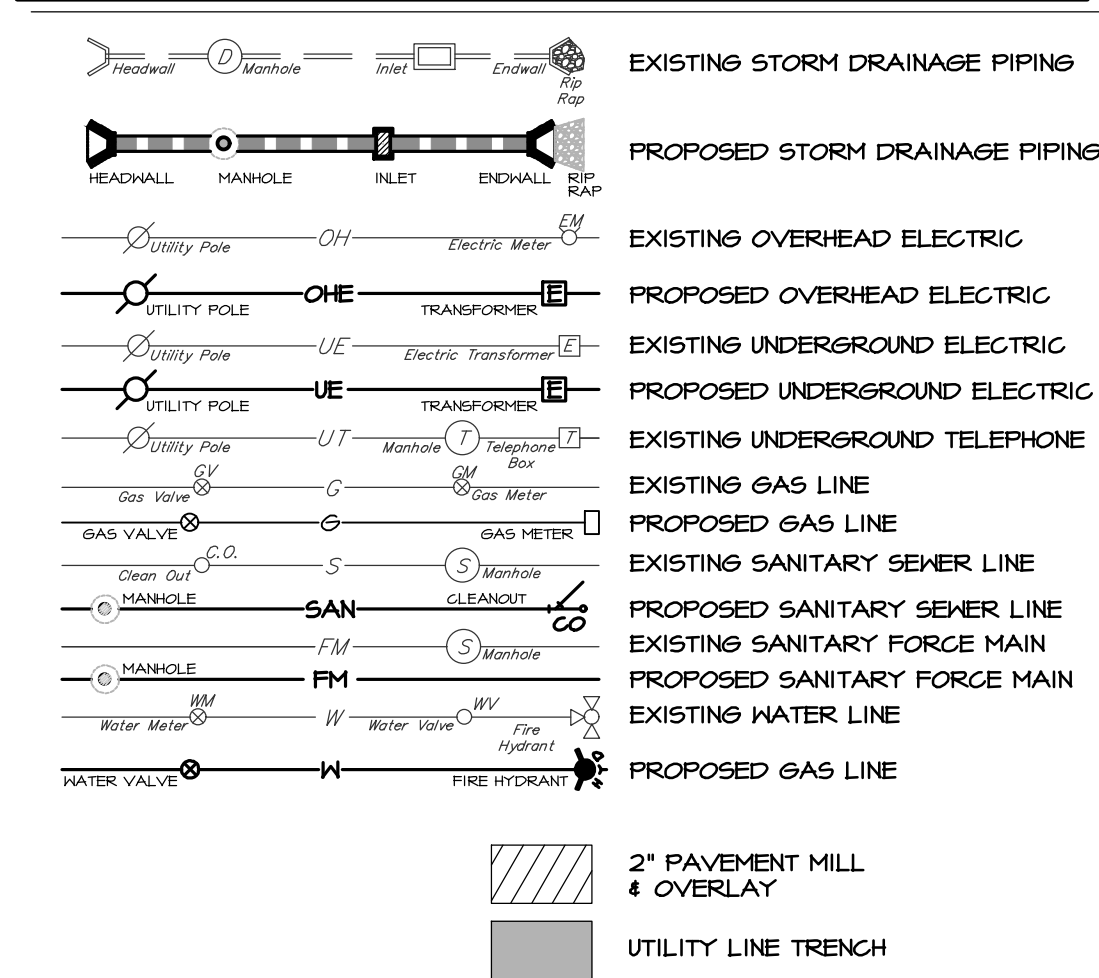


UTILITY LOT SANITARY SEWER EXTENSION
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VERT. SCALE: 1"= 10'

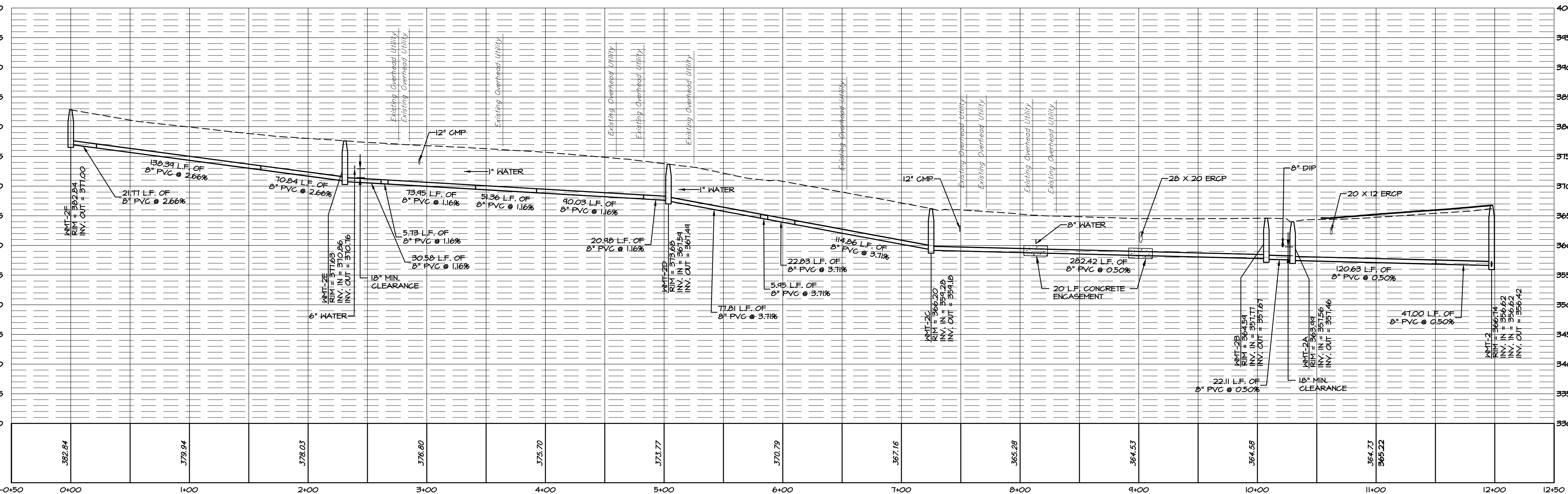


TOWNHOUSE CONNECTION TO S.R. 4018
HORZ. SCALE: 1"=50'
VERT. SCALE: 1"= 10'

UTILITY LEGEND



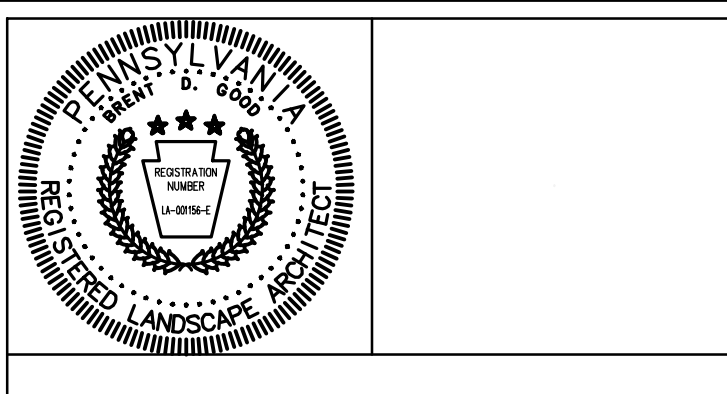
UTILITY LOT SANITARY SEWER EXTENSION
HORZ. SCALE: 1"=50'
VERT. SCALE: 1"= 10'



WMT-2F TO WMT-2
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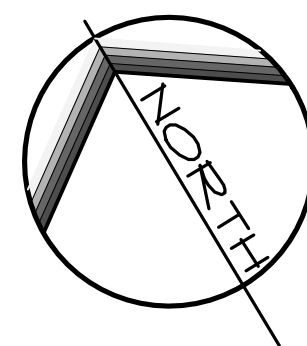
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FINAL PHASE 1 PLAN
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MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

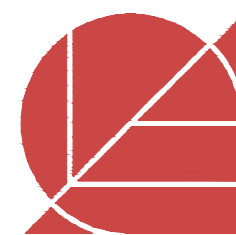
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ENGINEER:	TEH	PROJECT NO.:	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = 50'

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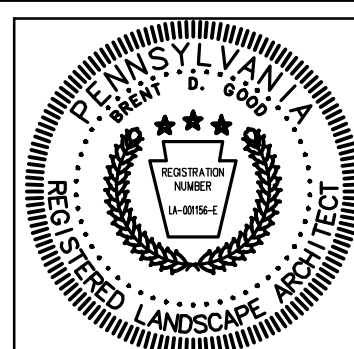
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SUBJECT:
UTILITY PLAN & PROFILES

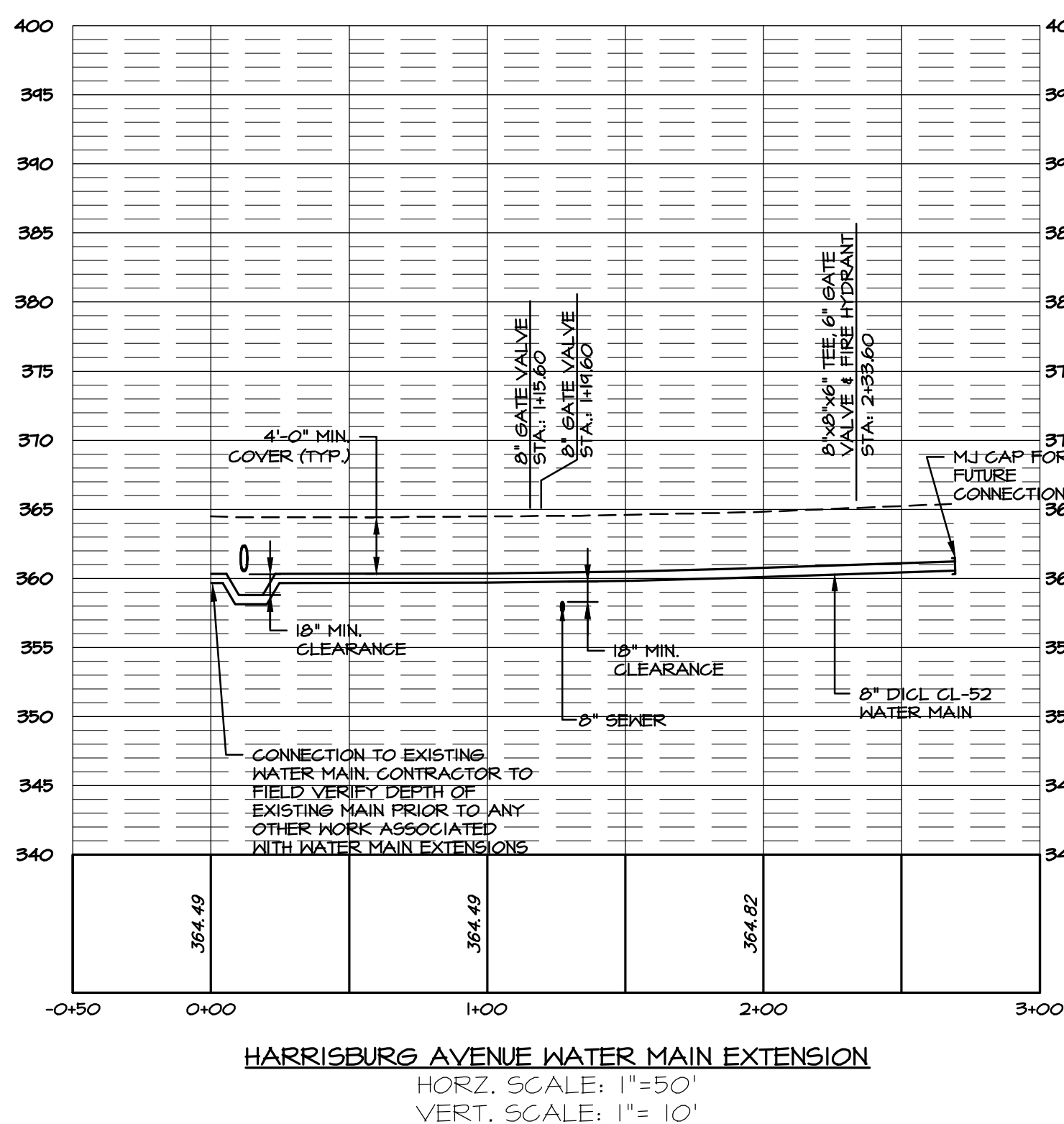
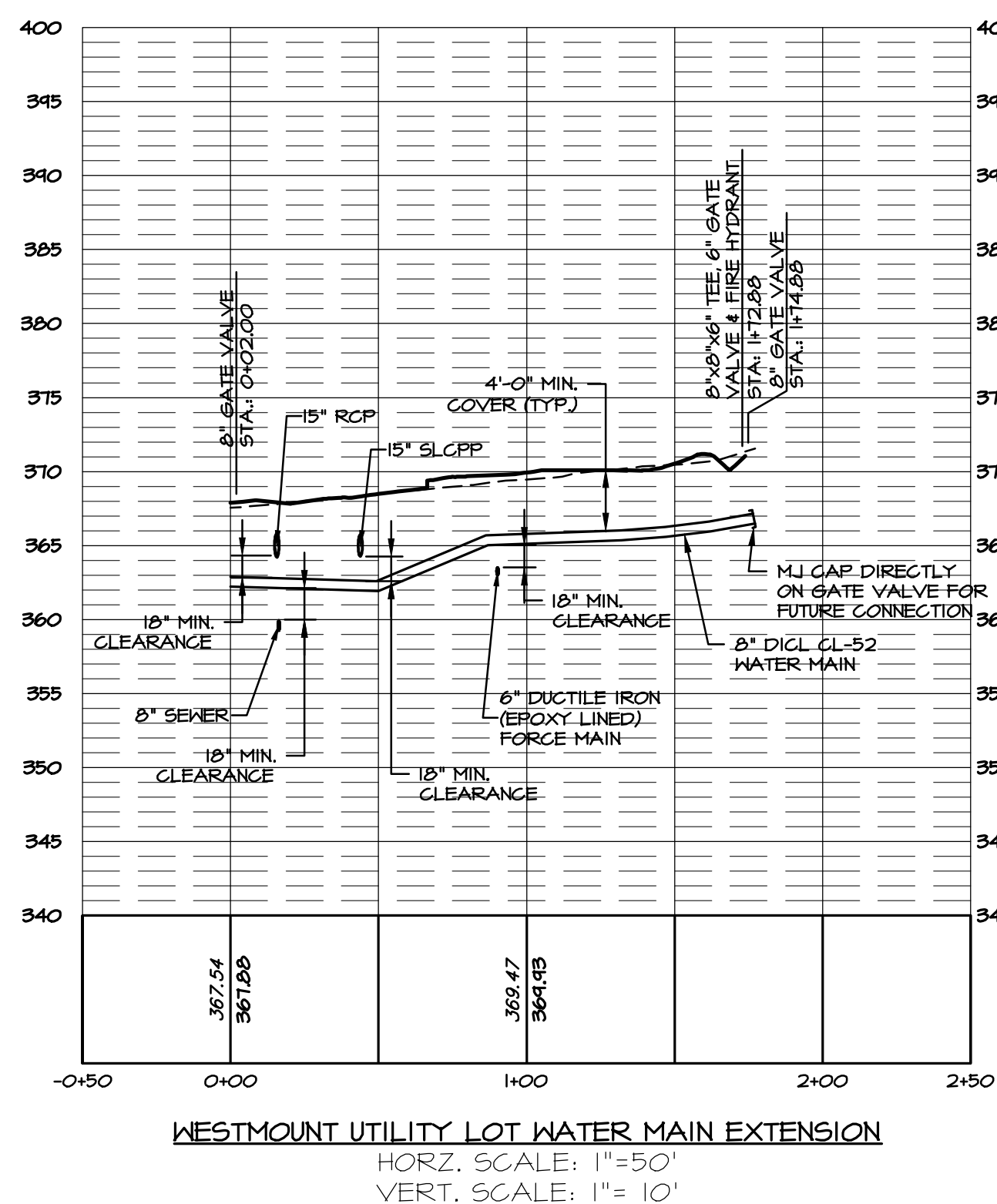
FOR
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CLIENT:
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LANCASTER, PA 17601
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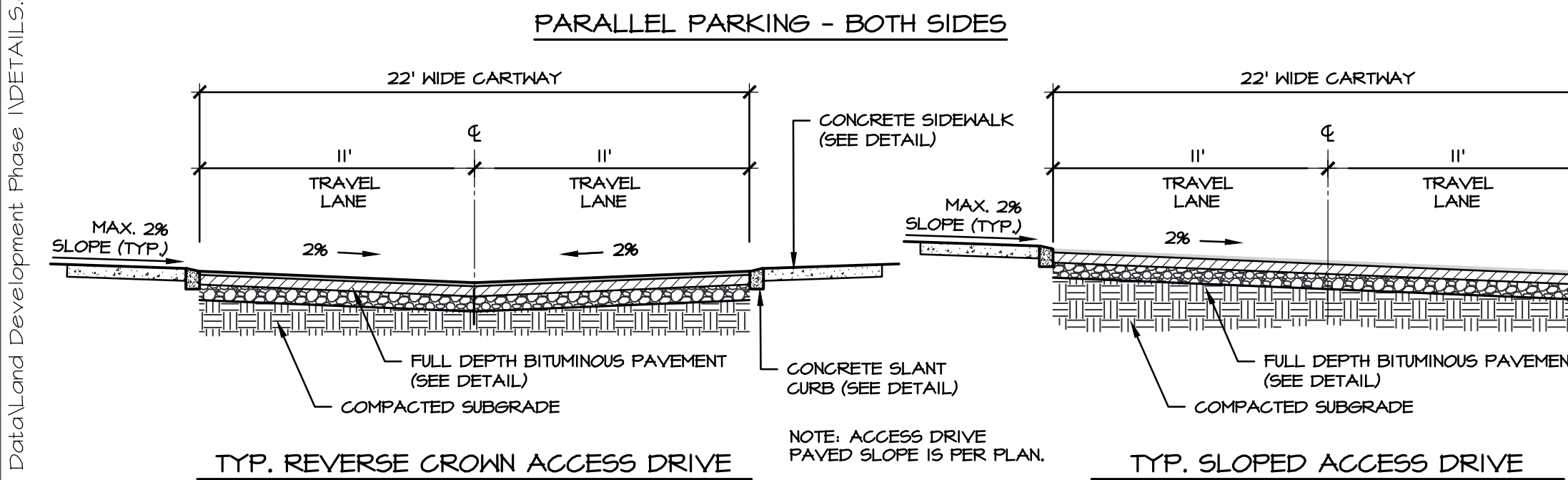
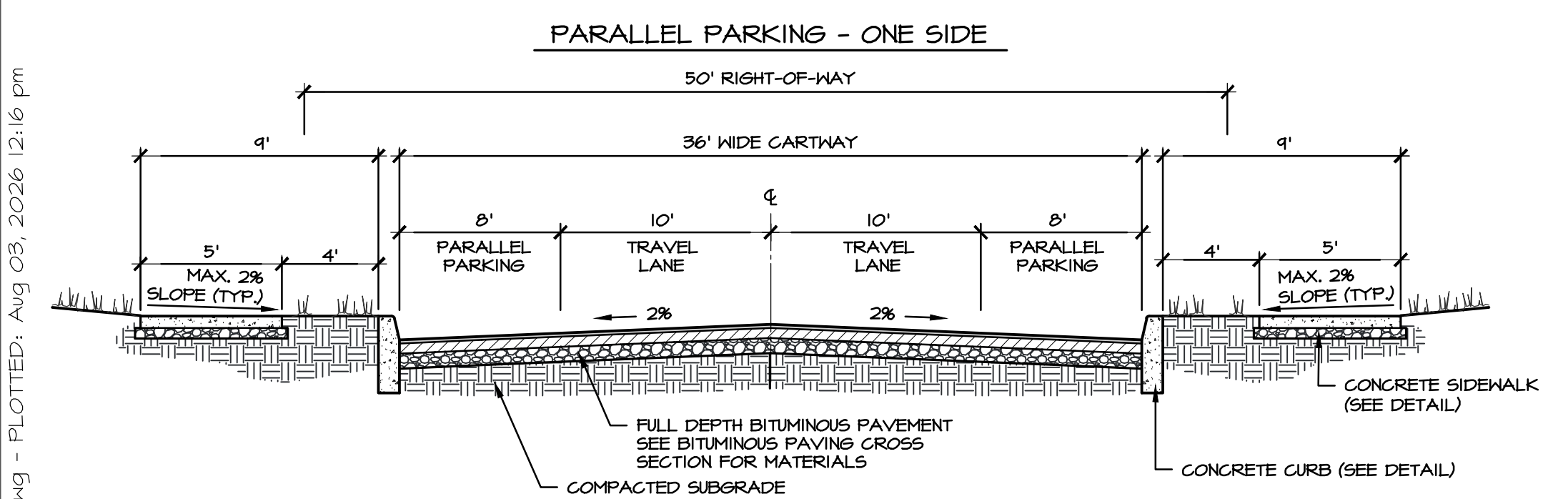
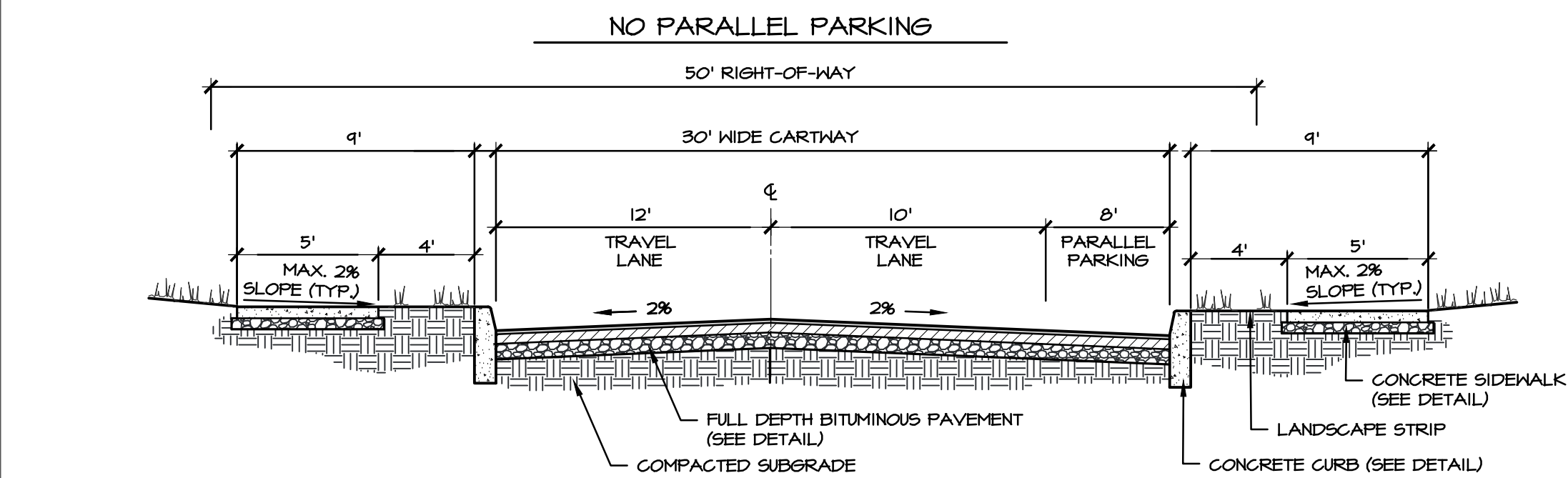
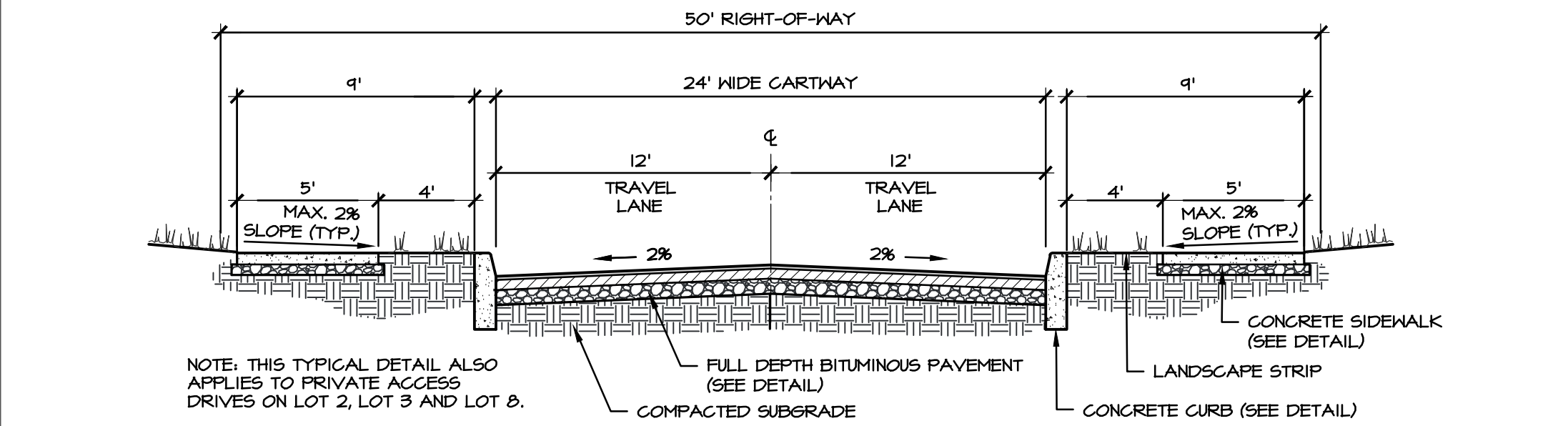
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ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = 50'

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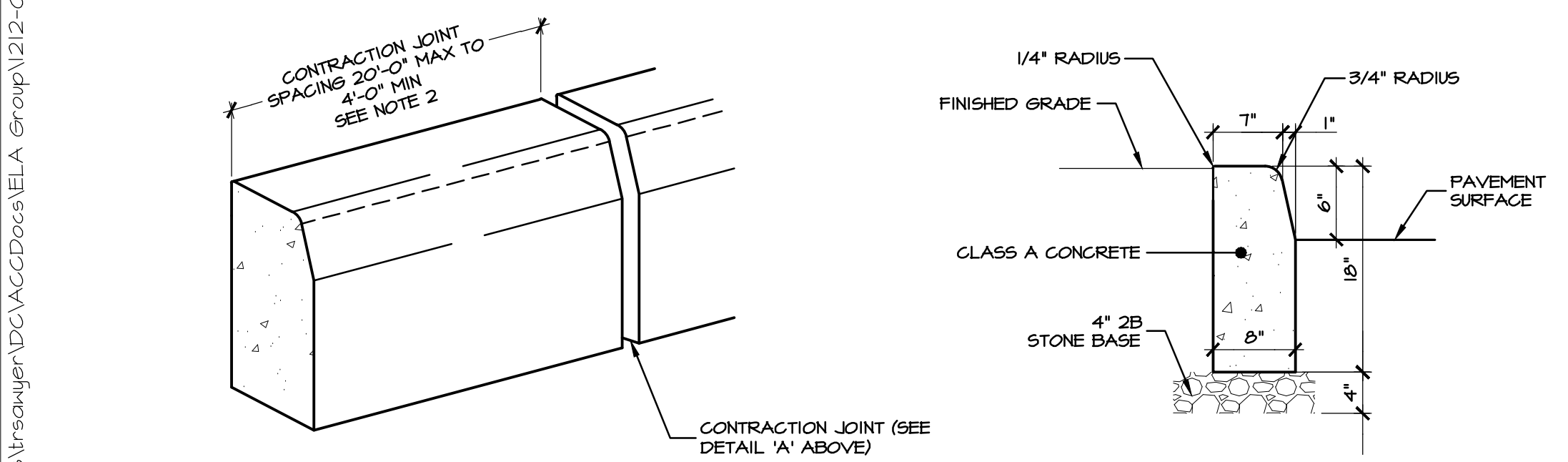
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A TYPICAL STREET CROSS-SECTIONS

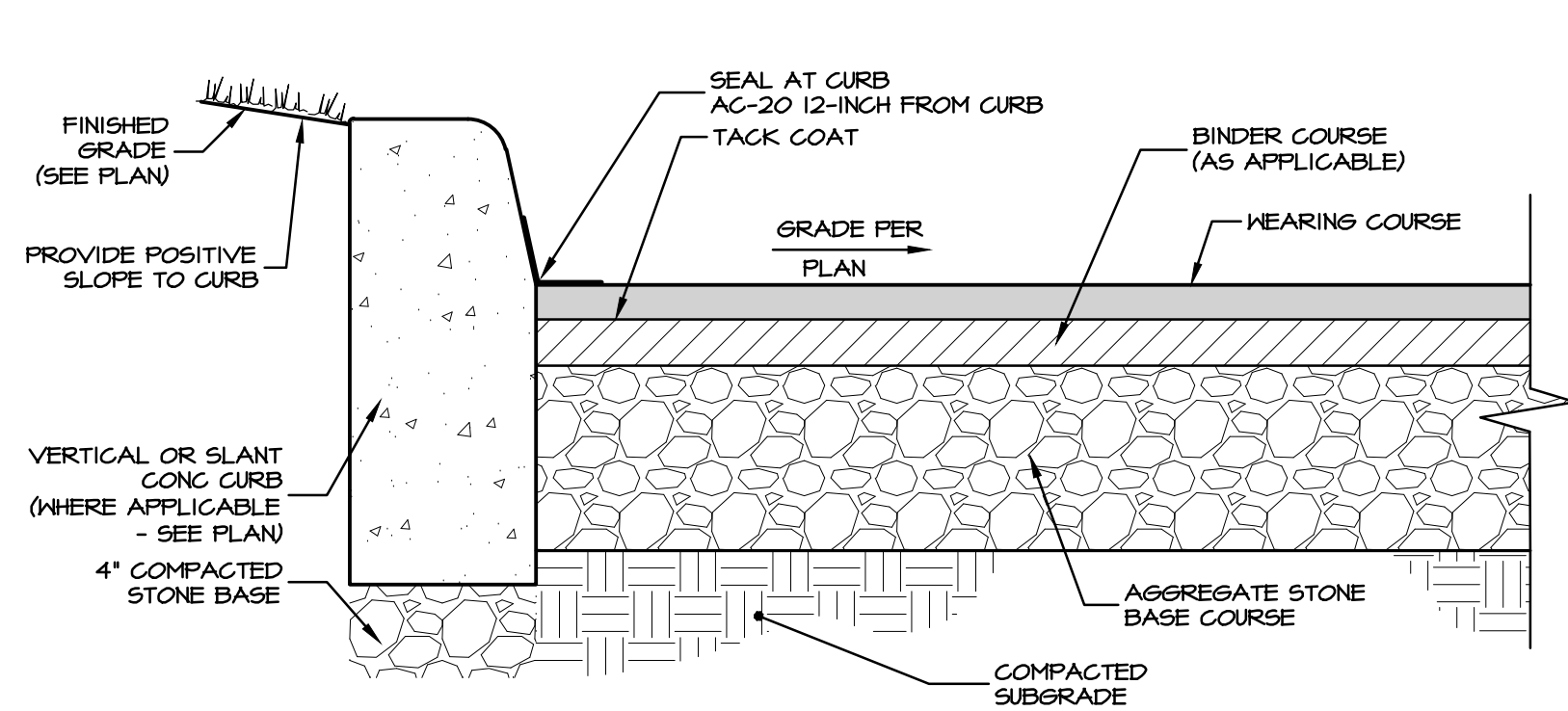
NO SCALE

- NOTES:**
1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 630 FOR PLAIN CEMENT CONC CURB.
 2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.
 3. INSTALL EXPANSION MATERIAL AT INTERVALS NOT TO EXCEED 100 FEET. EXPANSION MATERIAL SHALL BE 1" THICK PREMOULDED, NON-EXTRUDING, RESILIENT BITUMINOUS JOINT FIBER. INSTALL EXPANSION MATERIAL ADJACENT TO ALL INLETS AND OTHER STRUCTURES.
 4. PROVIDE REVEAL AS INDICATED ON PLAN.
 5. SEAL PAVEMENT JOINT AT CURB LINE WITH EMULSIFIED ASPHALT.



G PADOT TYPE CONCRETE VERTICAL CURB

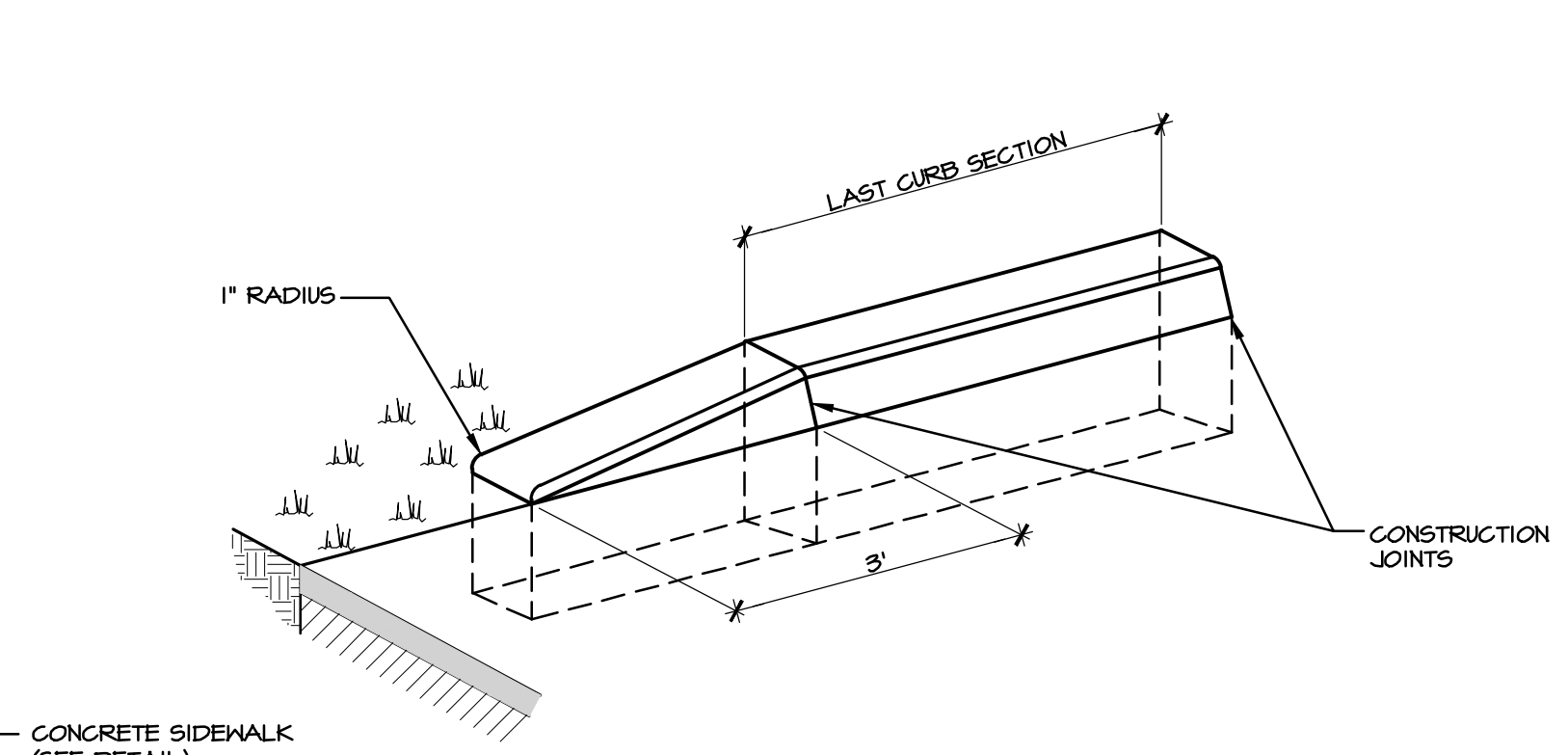
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BITUMINOUS PAVING SCHEDULE						
SYM	WEARING COURSE		BINDER COURSE		AGGREGATE BASE COURSE	
	TYPE	COMPACTED THICKNESS	TYPE	COMPACTED THICKNESS	TYPE	LOCATION
A	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 9.5 MM, SRL-H	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 25 MM MIX, 50 SYRATIONS	4"	2A MODIFIED	LOCAL DEDICATED STREET
B	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 9.5 MM, SRL-L	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 25 MM MIX, 50 SYRATIONS	3"	2A MODIFIED	PARKING AREAS
C	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 9.5 MM, SRL-L	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 25 MM MIX, 50 SYRATIONS	4"	2A MODIFIED	ACCESS DRIVES

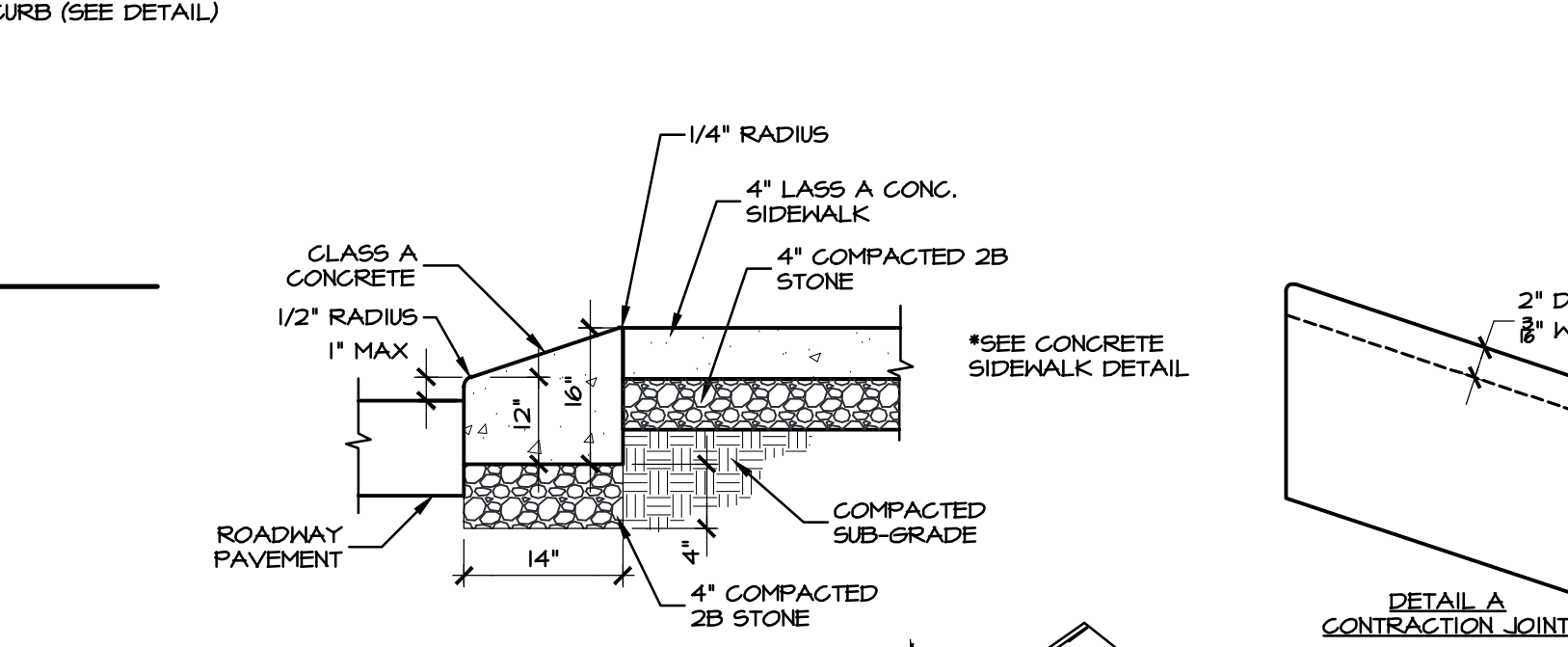
B BITUMINOUS PAVEMENT SECTION / SCHEDULE

NO SCALE



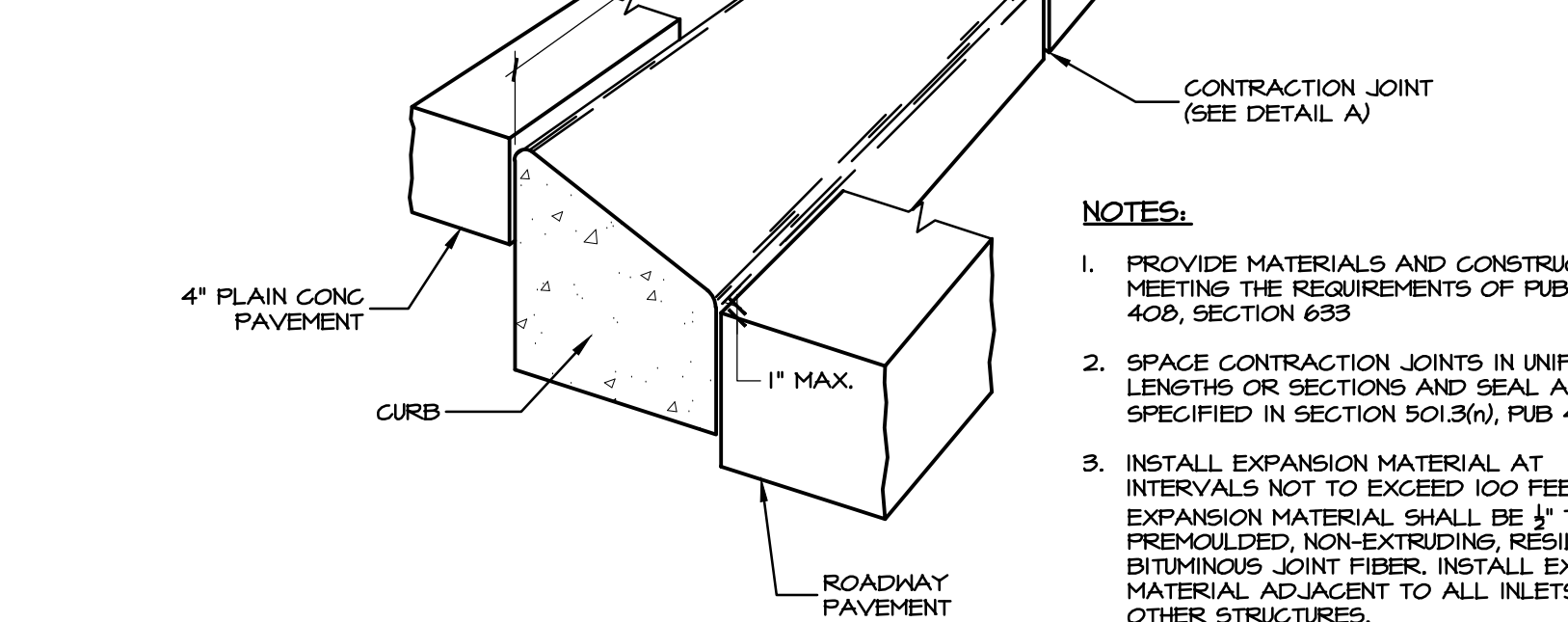
D TYPICAL CURB END DETAIL

NO SCALE



E SAWCUT/BITUMINOUS PAVING JOINT

NO SCALE



I DUMPSTER PAD PAVEMENT SECTION

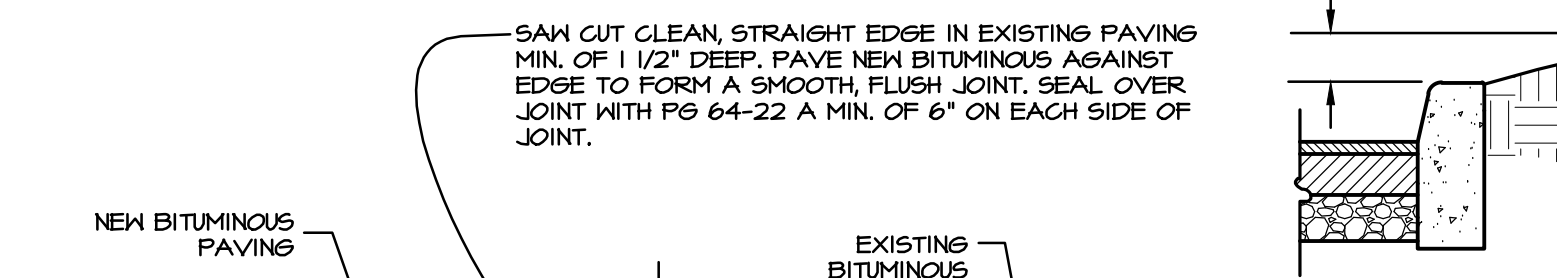
NO SCALE

1. BITUMINOUS PAVEMENT MATERIALS ARE LISTED PER PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, PUBLICATION 408 STANDARDS, LATEST REVISIONS.
2. RECLAIMED AGGREGATE MATERIAL SHALL MEET THE REQUIREMENTS OF PA DOT PUBLICATION 408, SECTION 103.1, TABLE A, OR 103.2, TABLE B.
3. IT IS RECOMMENDED THAT THE PAVEMENT SECTION AND OTHER DESIGN CONSIDERATIONS SUCH AS PAVEMENT BASE DRAIN BE DESIGNED BY A GEOTECHNICAL PROFESSIONAL BASED UPON FIELD TESTING OF SOIL SUBGRADE CONDITIONS ANTICIPATED PAVEMENT LOADINGS, INCLUDING CONSTRUCTION TRAFFIC, AND OTHER APPROPRIATE DESIGN FACTORS. THE PAVEMENT SECTION SPECIFIED ON THIS DETAIL IS PROVIDED WITHOUT A GEOTECHNICAL PROFESSIONAL AND REPRESENTS A STANDARD PAVEMENT SECTION THAT DOES NOT CONSIDER THESE FACTORS.*
4. THE SUITABILITY OF THE PAVEMENT SUBGRADE SHALL BE INSPECTED AND APPROVED BY GEOTECHNICAL PROFESSIONAL PRIOR TO INSTALLATION OF PAVING SECTION. IF SUBGRADE IS DETERMINED UNSUITABLE BASED UPON COMPACTION, SOIL TYPE, ETC., APPROPRIATE STABILIZATION MEASURES AS RECOMMENDED BY THE GEOTECHNICAL PROFESSIONAL SHALL BE IMPLEMENTED.
5. IF ANY PRECIPITATION OCCURS BEFORE STONE SUBBASE INSTALLATION, PAVEMENT SUBGRADE SHALL MUST BE RE-INSPECTED AND APPROVED TO CONFIRM SUITABILITY.
6. SPECIFIC PAVING CRITERIA AS CONTAINED WITHIN PENNDOT PUBLICATION 408 AS IT RELATES TO APPROVED AMBIENT TEMPERATURE FOR PAVING INSTALLATION SHALL BE FOLLOWED.
7. ALL AREAS ADJACENT TO CURB, INLETS, MANHOLE COVERS, ETC. ARE TO BE SEALED 12-INCHES WIDE WITH AC-20.
8. ALL ROADS AND STREETS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT VERSION OF THE PENNDOT PUB. 408. THE CONTRACTOR SHALL OBTAIN CONSTRUCTION MATERIALS FROM PENNDOT APPROVED SUPPLIERS AS LISTED IN PENNDOT BULLETIN 15. THE CONTRACTOR SHALL PROVIDE PENNDOT APPROVED MIX DESIGN AND CERTIFICATES OF COMPLIANCE, FORM 65-411, FOR ALL MATERIALS PROVIDED FOR THE WORK. DELIVERY TICKETS SHALL BE PROVIDED FOR ALL MATERIALS.

BITUMINOUS PAVING SCHEDULE						
SYM	WEARING COURSE		BINDER COURSE		AGGREGATE BASE COURSE	
	TYPE	COMPACTED THICKNESS	TYPE	COMPACTED THICKNESS	TYPE	LOCATION
A	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 9.5 MM, SRL-H	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 25 MM MIX, 50 SYRATIONS	4"	2A MODIFIED	LOCAL DEDICATED STREET
B	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 9.5 MM, SRL-L	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 25 MM MIX, 50 SYRATIONS	3"	2A MODIFIED	PARKING AREAS
C	SUPERPAVE ASPHALT DESIGN, HMA WEARING COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 9.5 MM, SRL-L	1.5"	SUPERPAVE ASPHALT DESIGN, HMA BINDER COURSE, PG 64-22, 0.3 TO 3.0 MILLION ESAL'S, 25 MM MIX, 50 SYRATIONS	4"	2A MODIFIED	ACCESS DRIVES

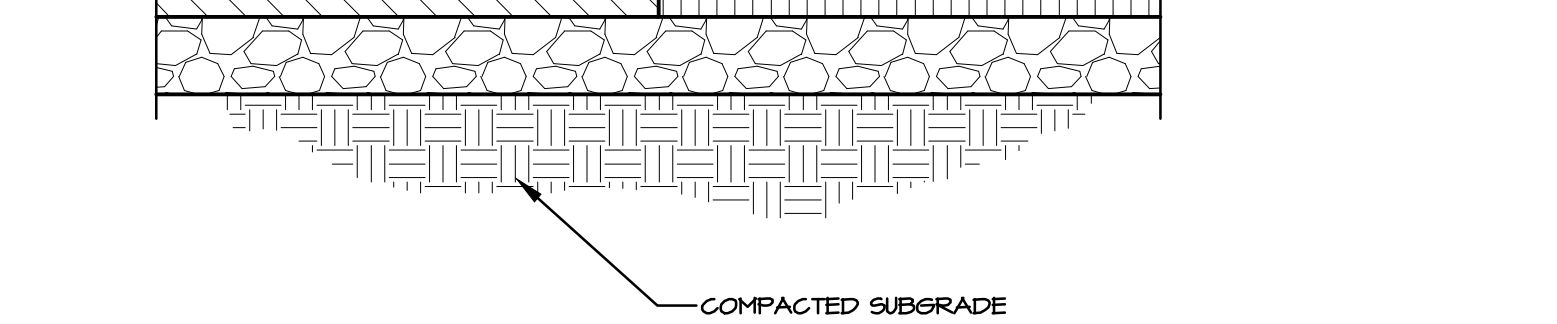
C BITUMINOUS DRIVEWAY SECTION

NO SCALE



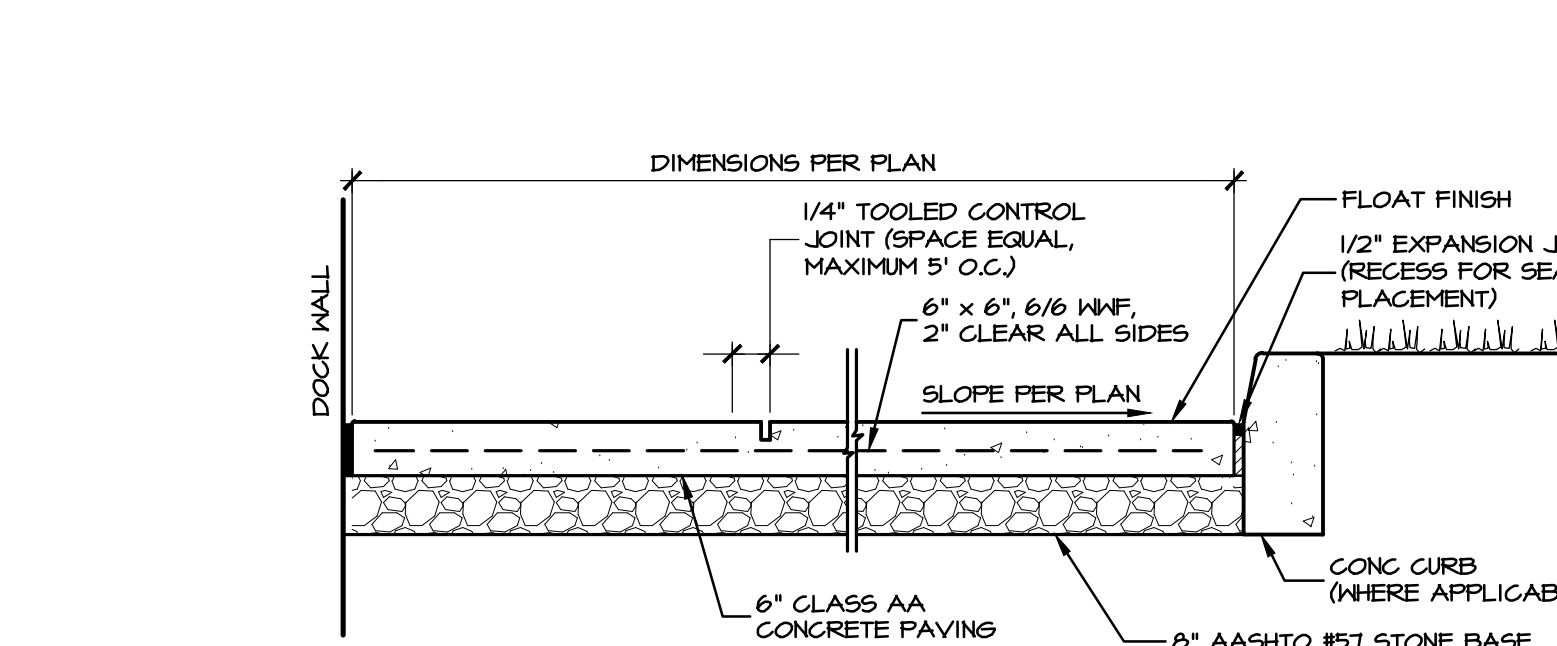
F PARKING ISLAND MOUNDING

NO SCALE



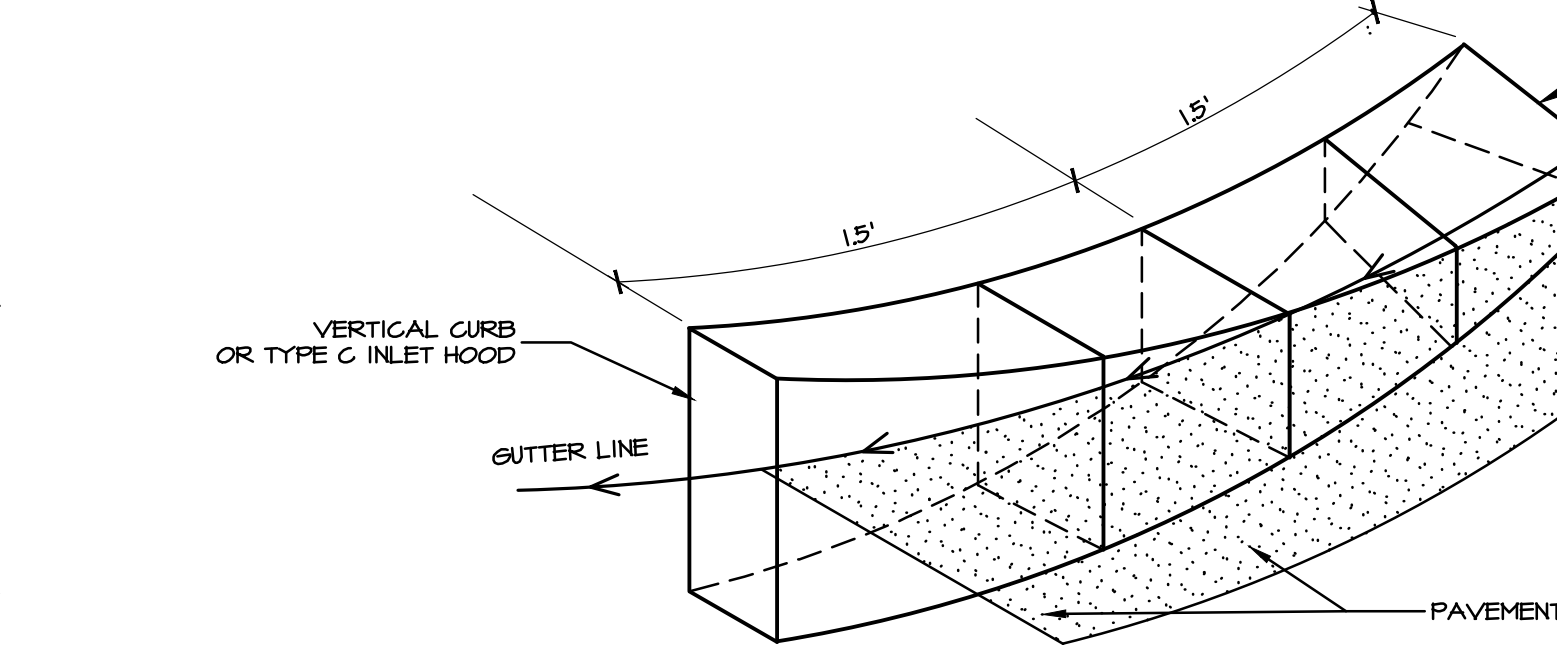
A TYPICAL CURB END DETAIL

NO SCALE



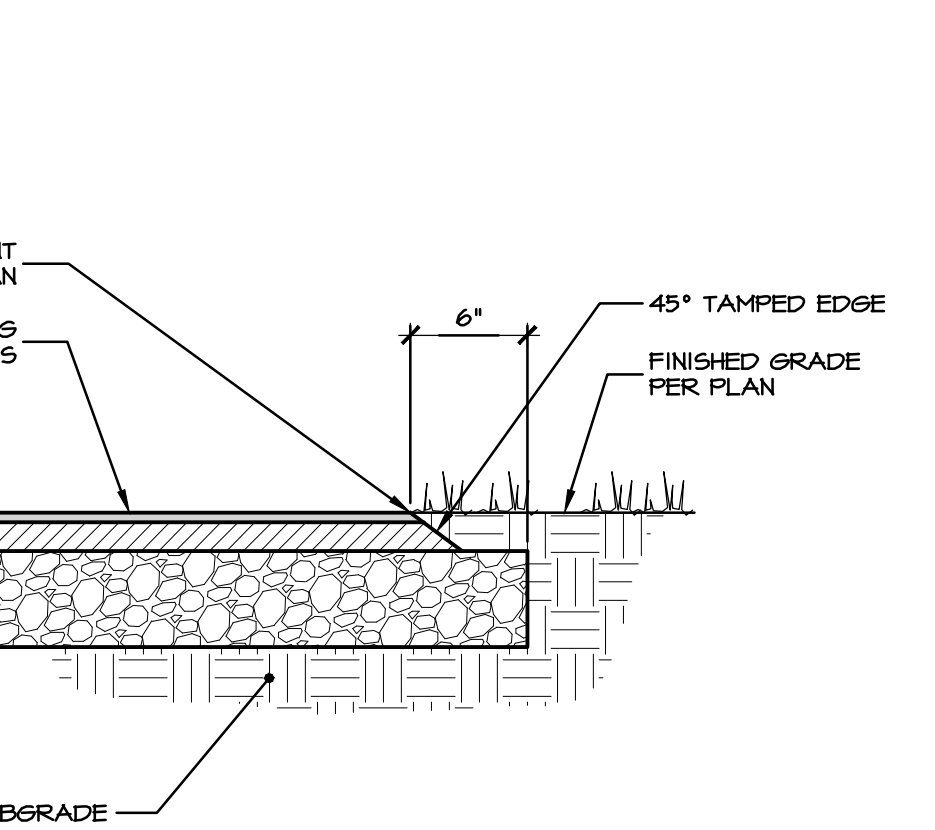
E SAWCUT/BITUMINOUS PAVING JOINT

NO SCALE



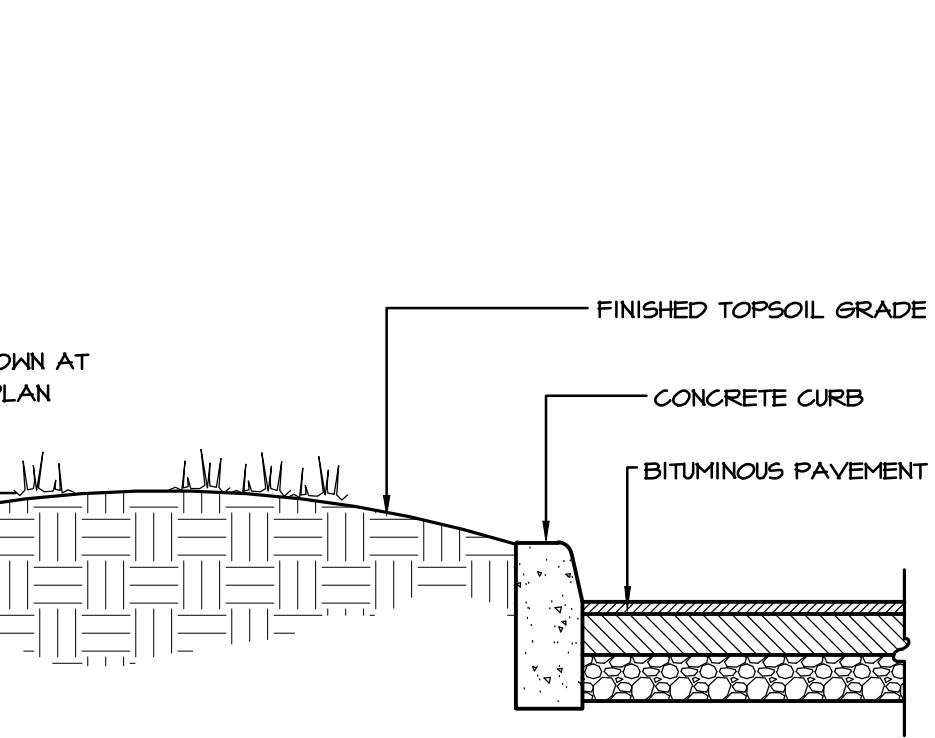
I DUMPSTER PAD PAVEMENT SECTION

NO SCALE



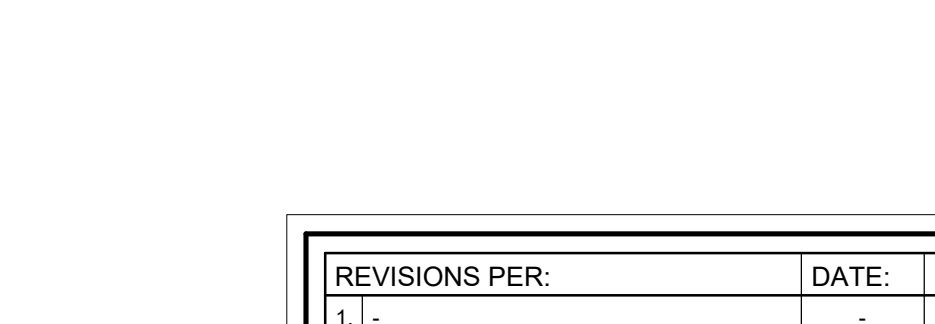
A TYPICAL CURB END DETAIL

NO SCALE



E SAWCUT/BITUMINOUS PAVING JOINT

NO SCALE



I DUMPSTER PAD PAVEMENT SECTION

NO SCALE

REVISIONS PER:

DATE:

BY:

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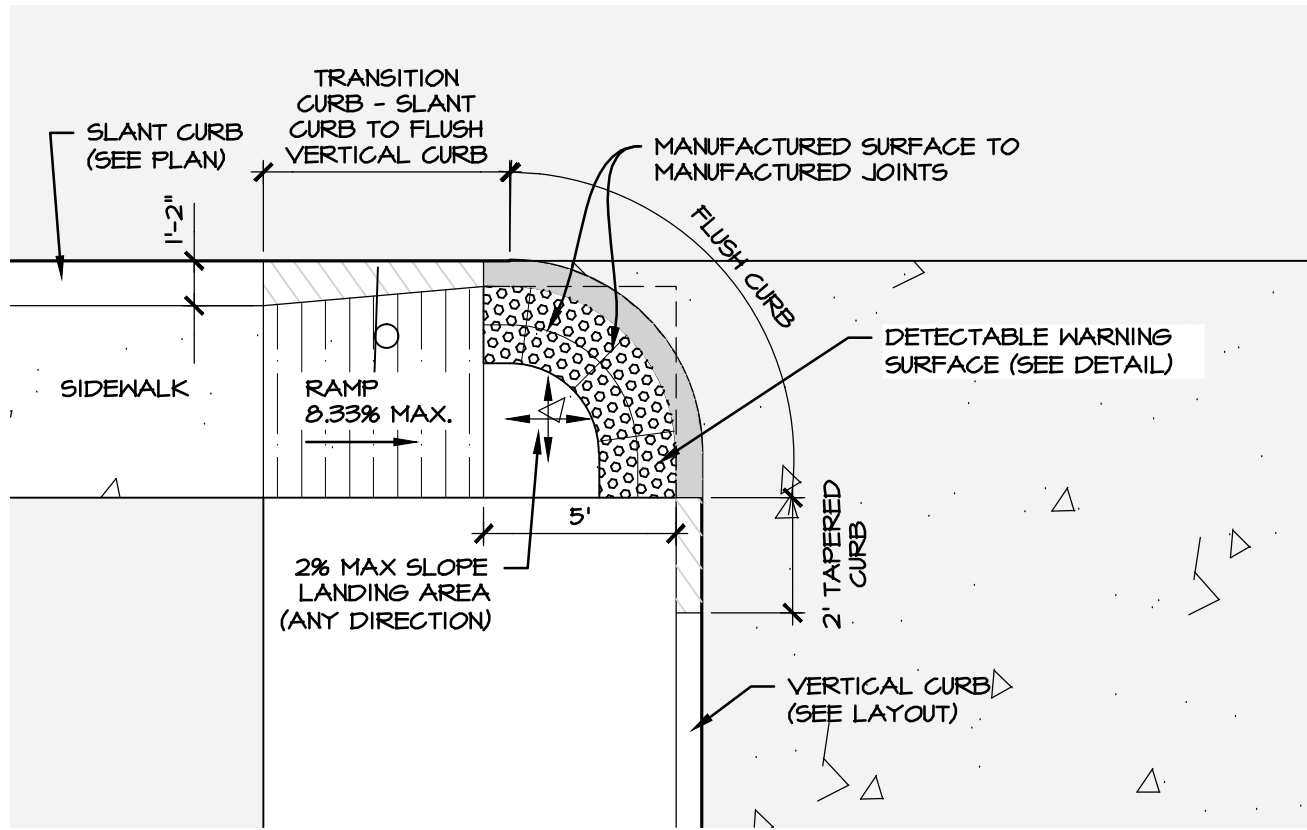
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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

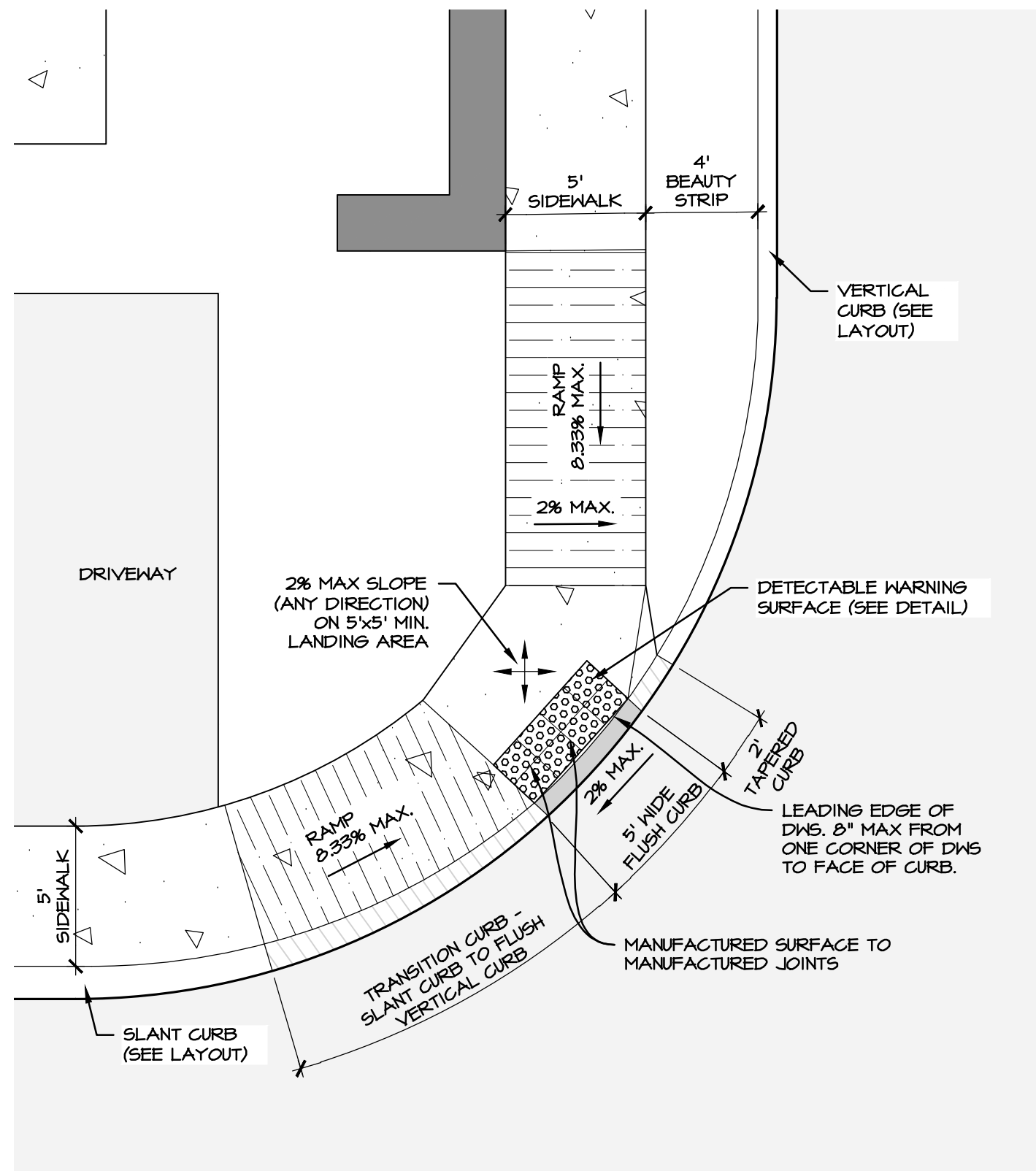
FINAL PHASE 1 PLAN
SUBJECT:
SITE DETAILS
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.:	1212-004
CAD DESIGNER:	TRS	SCALE:	AS NOTED

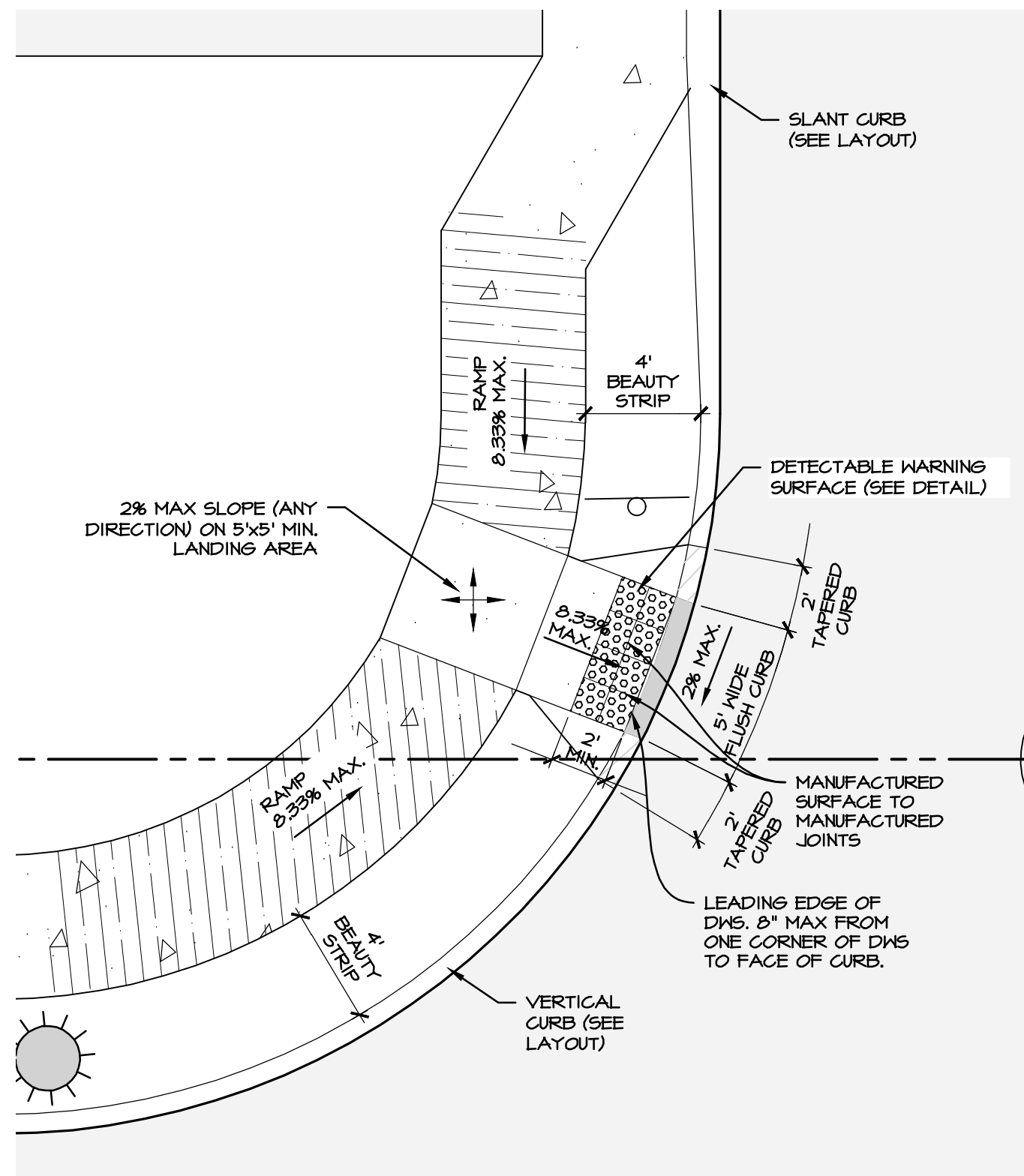
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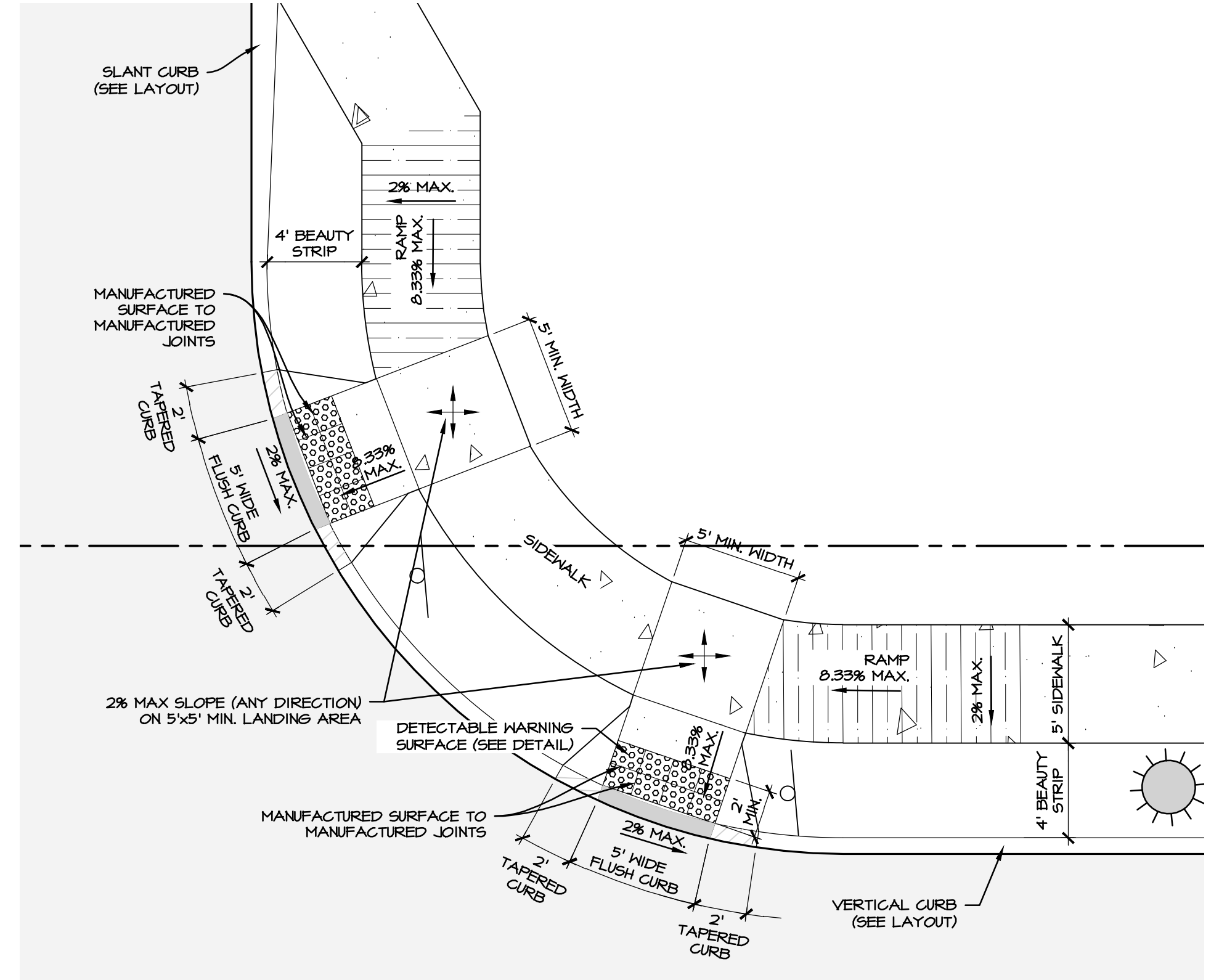
PENNDOT TYPE 1A CURB RAMP



PENNDOT TYPE 2 CURB RAMP (MODIFIED)

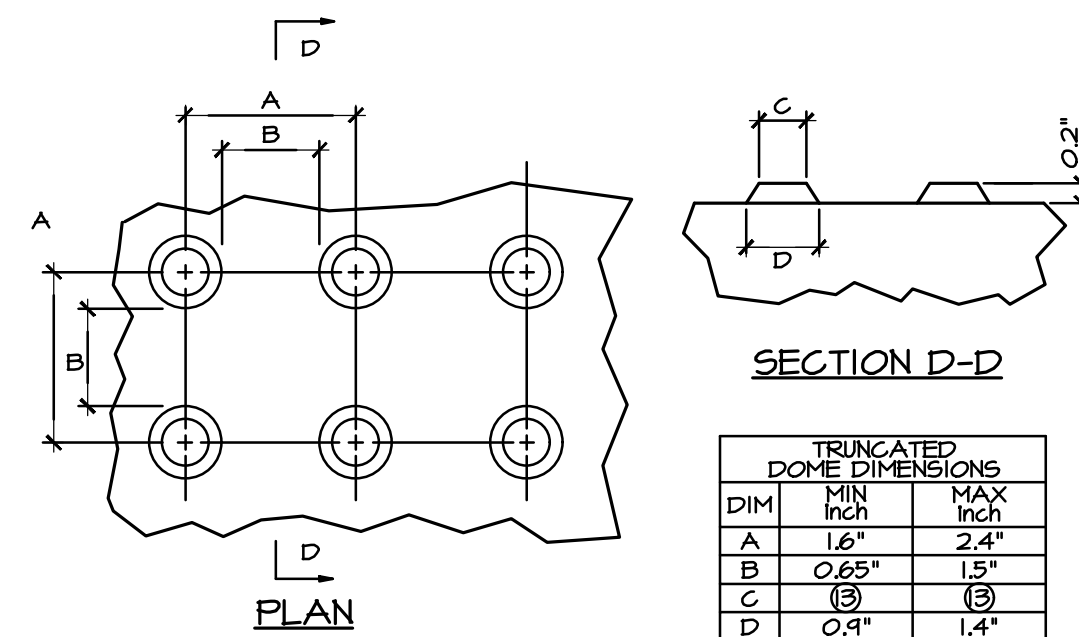


PENNDOT TYPE 6 CURB RAMP

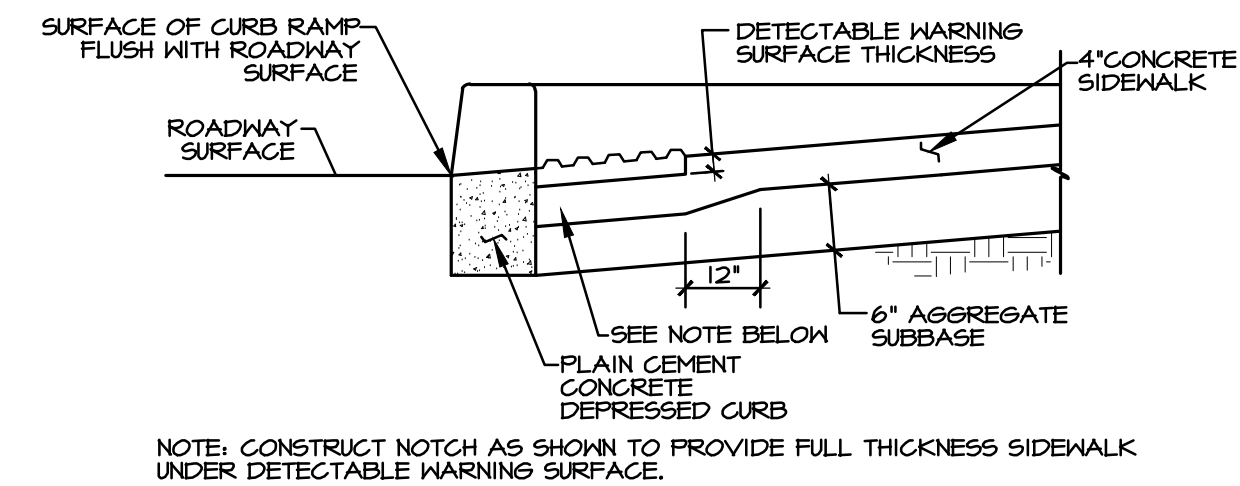


PENNDOT TYPE 6 DOUBLE CURB RAMP

TYPICAL ADA RAMP NOTES:
1. ALL RAMP NOT TO EXCEED 0.33% SLOPE.

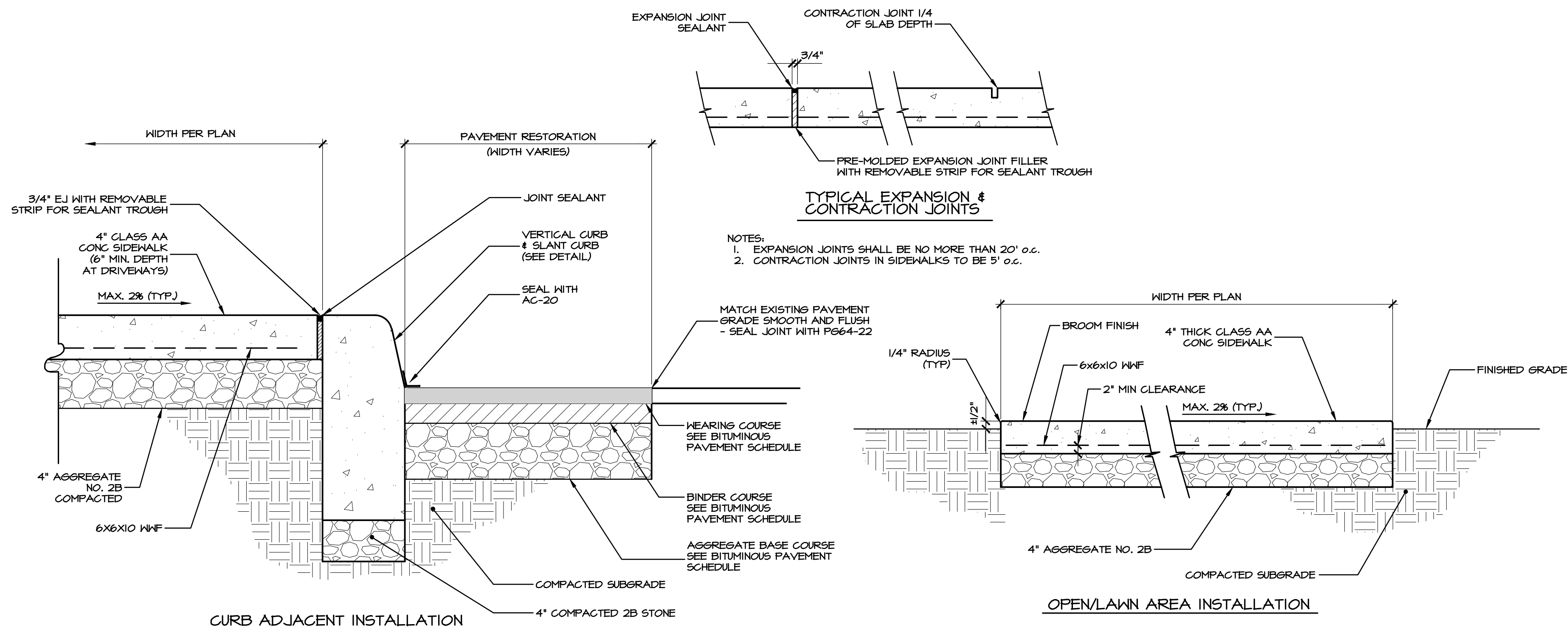


DETECTABLE WARNING SURFACE (DWS)
TRUNCATED DOME DETAILS



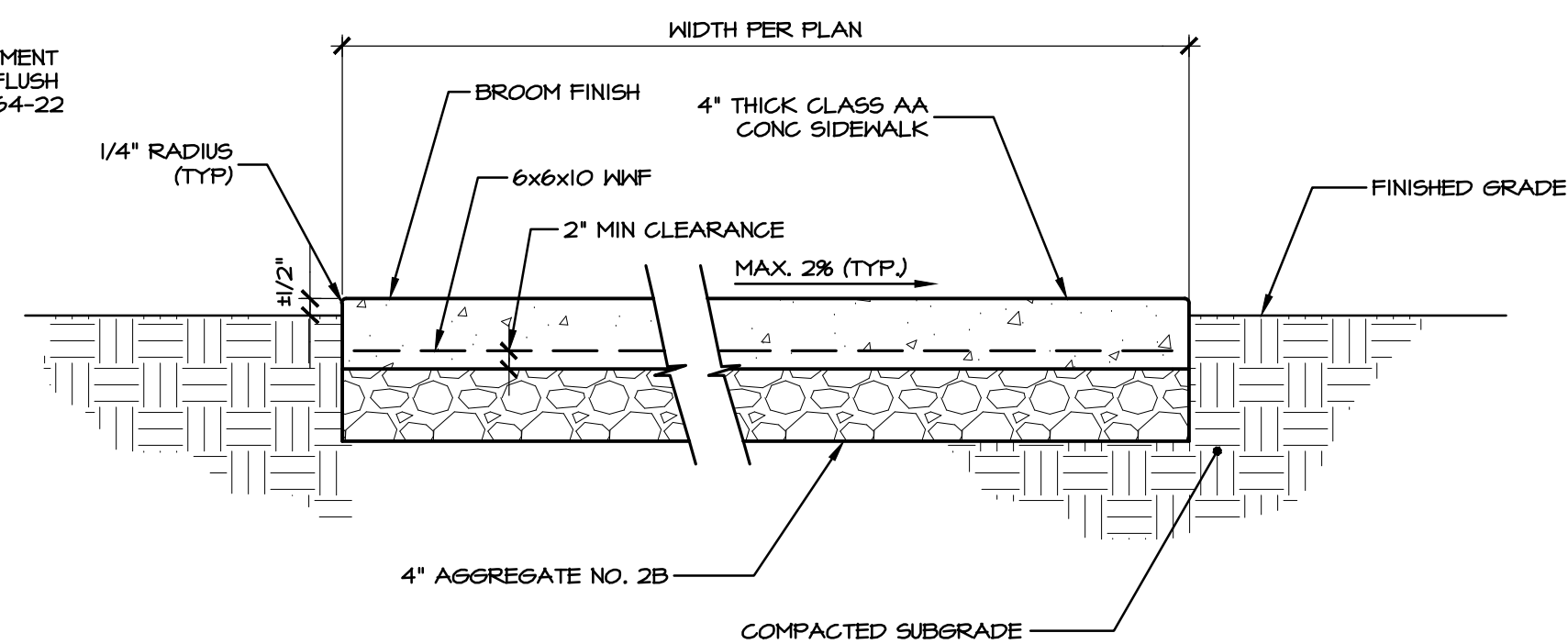
DETECTABLE WARNING SURFACE
EMBEDDING DETAIL

A CURB RAMPS AND SIDEWALKS DETAIL
NO SCALE

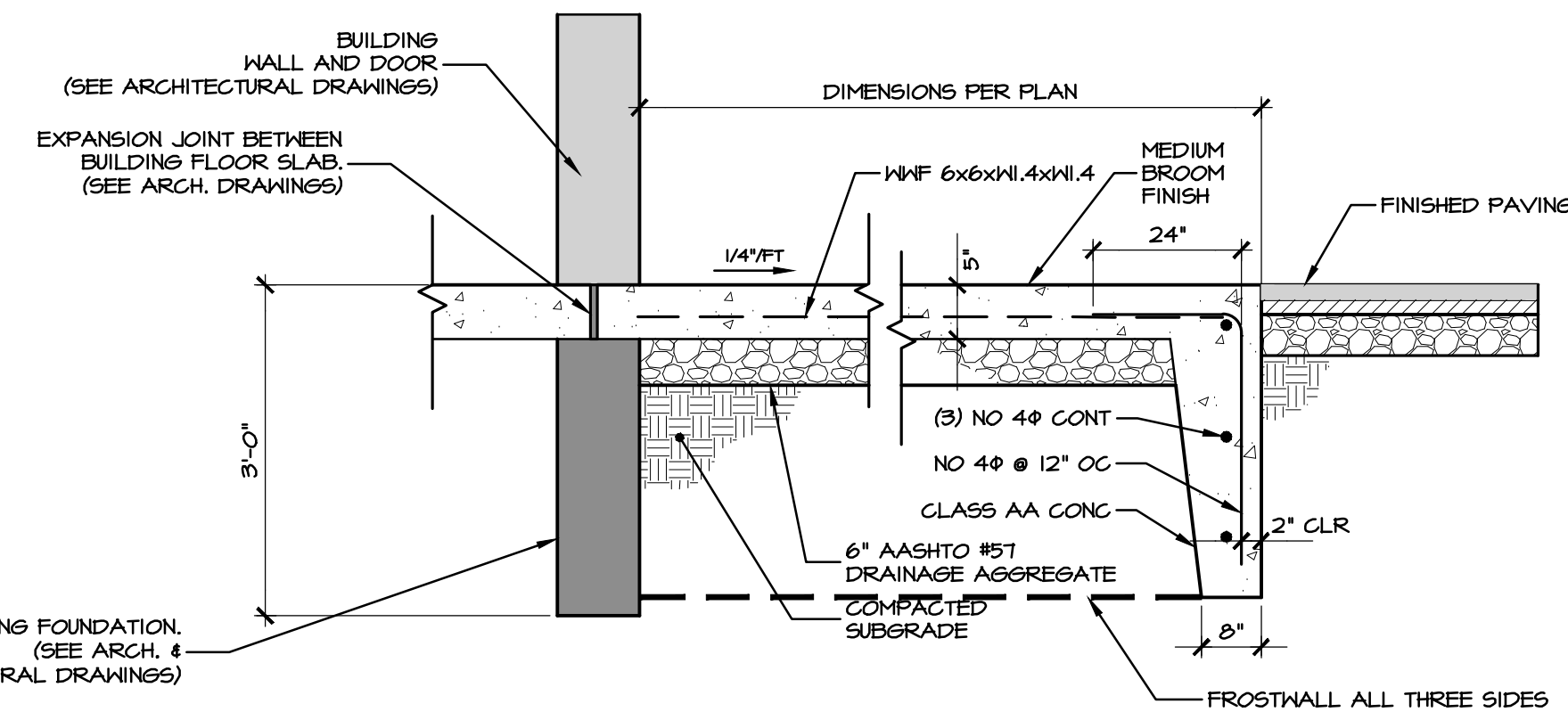


TYPICAL EXPANSION &
CONTRACTION JOINTS

NOTES:
1. EXPANSION JOINTS SHALL BE NO MORE THAN 20' o.c.
2. CONTRACTION JOINTS IN SIDEWALKS TO BE 5' o.c.



OPEN/LAWN AREA INSTALLATION



A FROST WALL AT DOOR
NO SCALE

B CONCRETE SIDEWALK DETAIL
NO SCALE

REVISIONS PER:	DATE:	BY:
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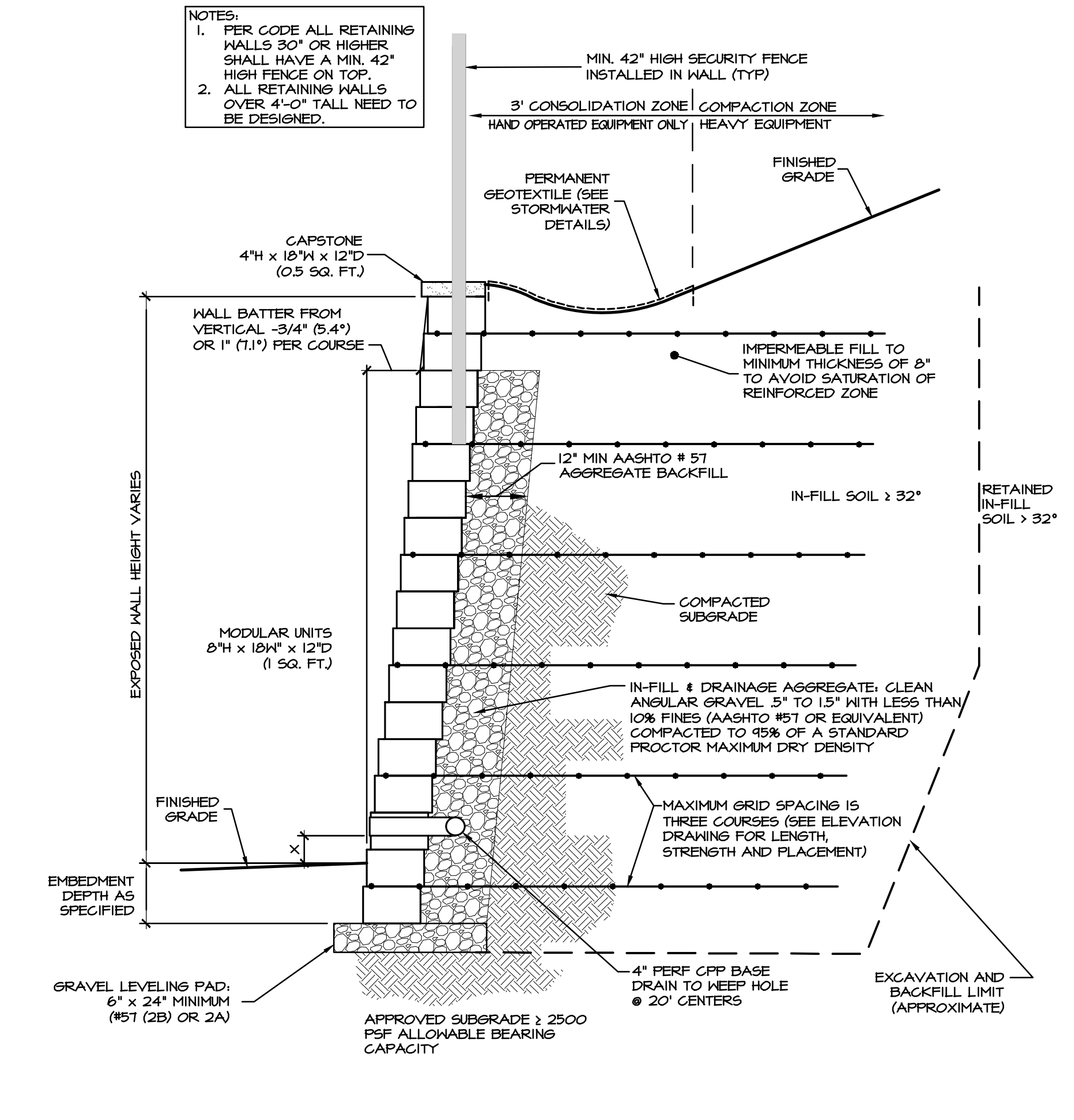
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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

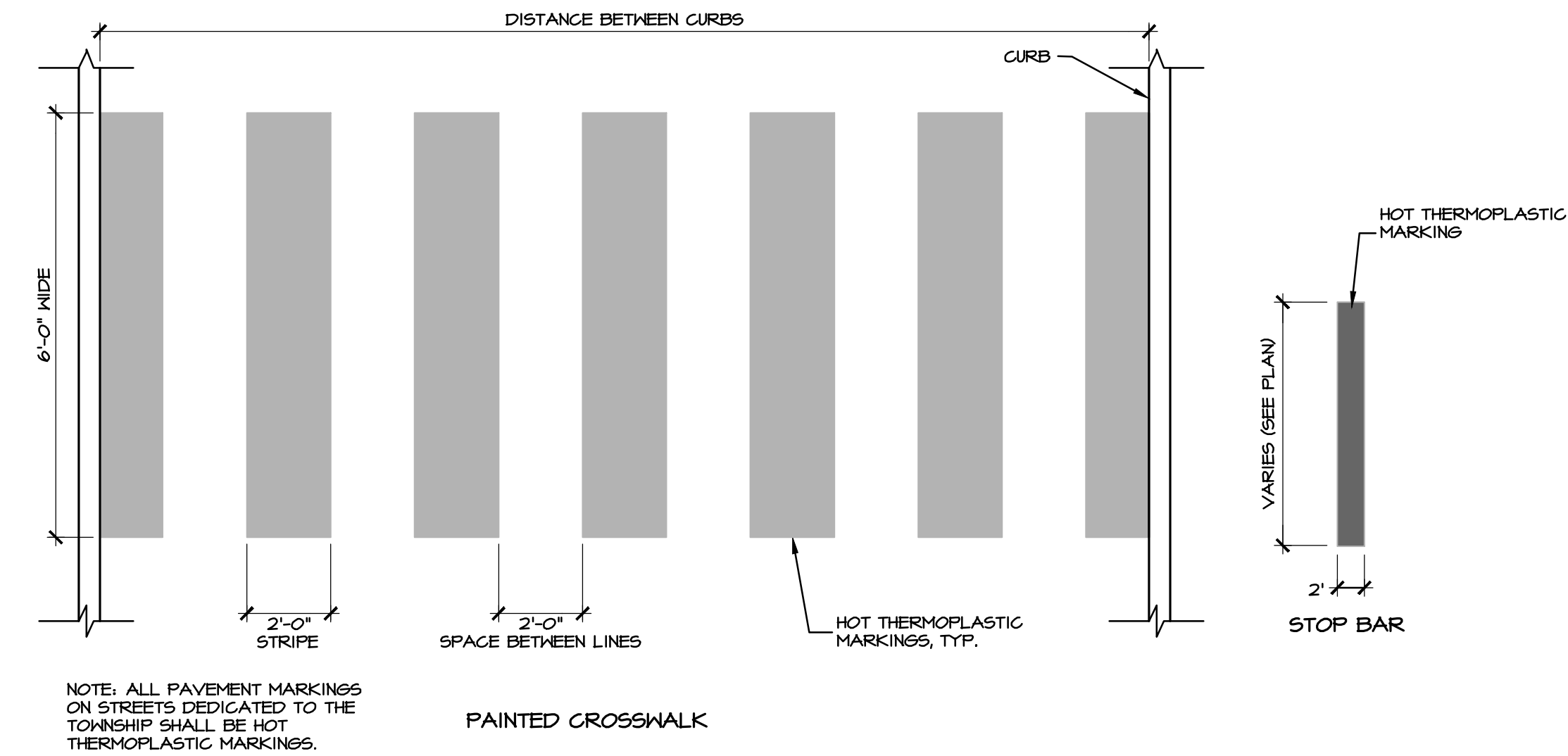
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717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
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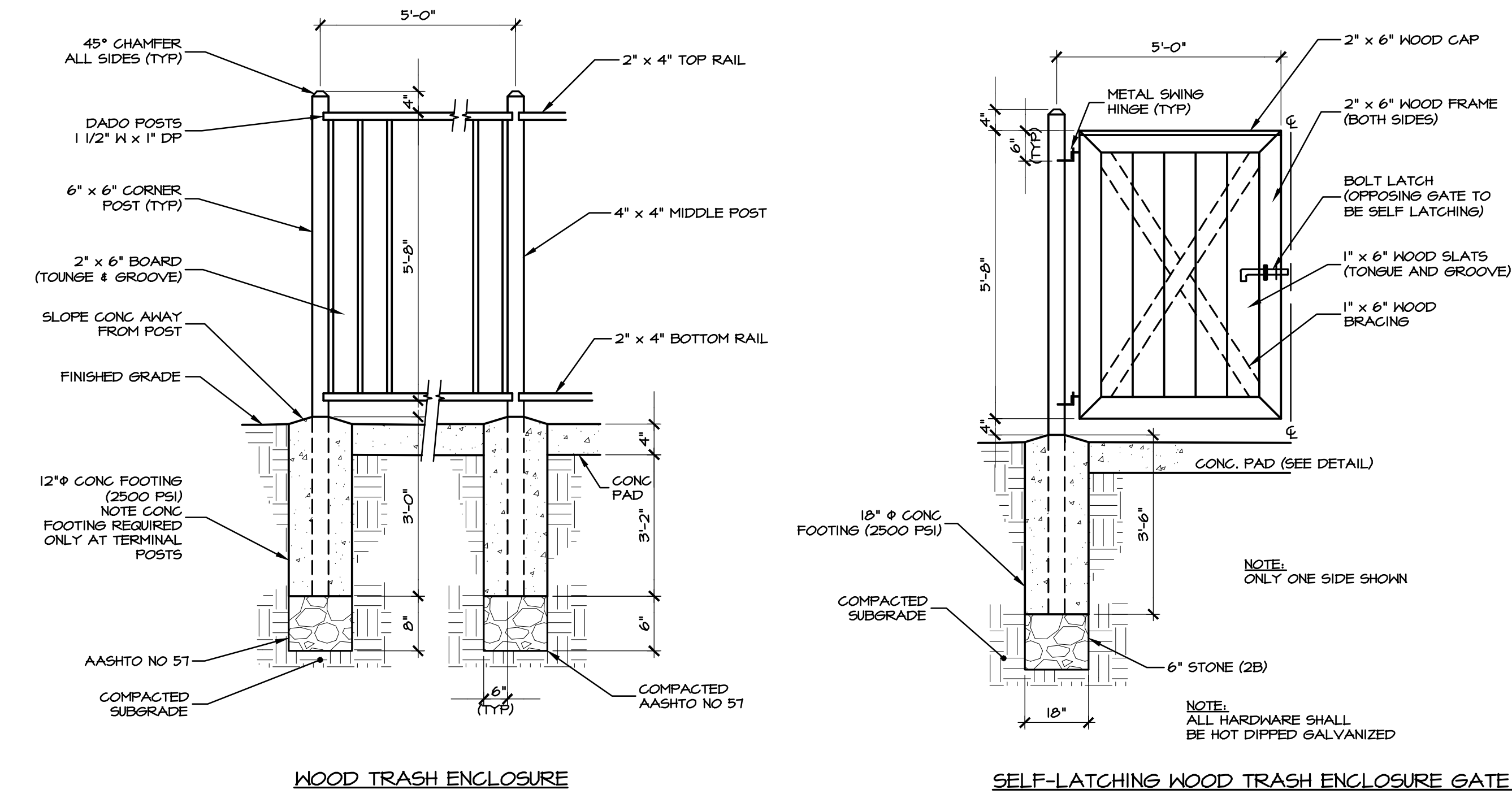
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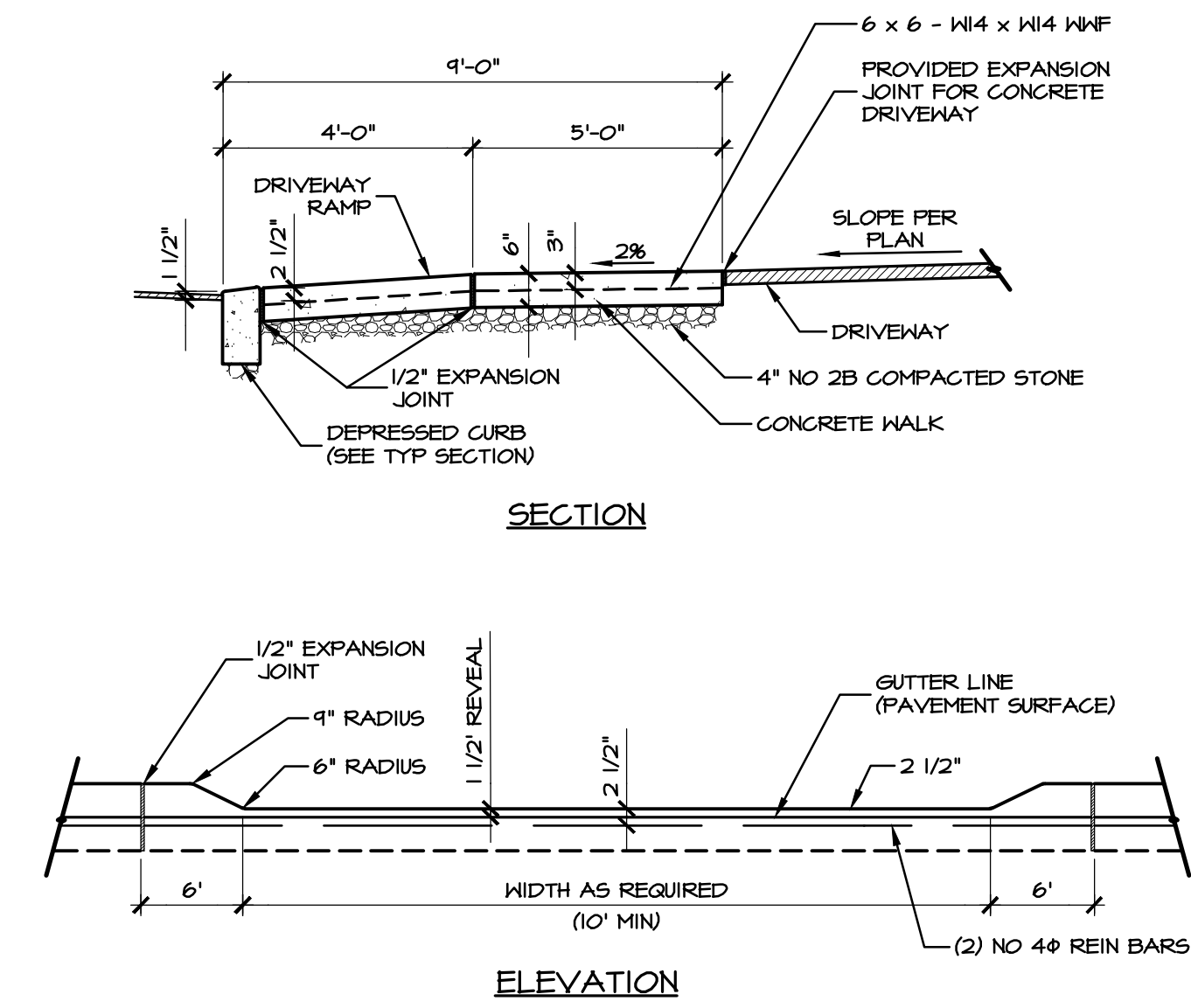
A TYPICAL SEGMENTAL RETAINING WALL SECTION
NO SCALE



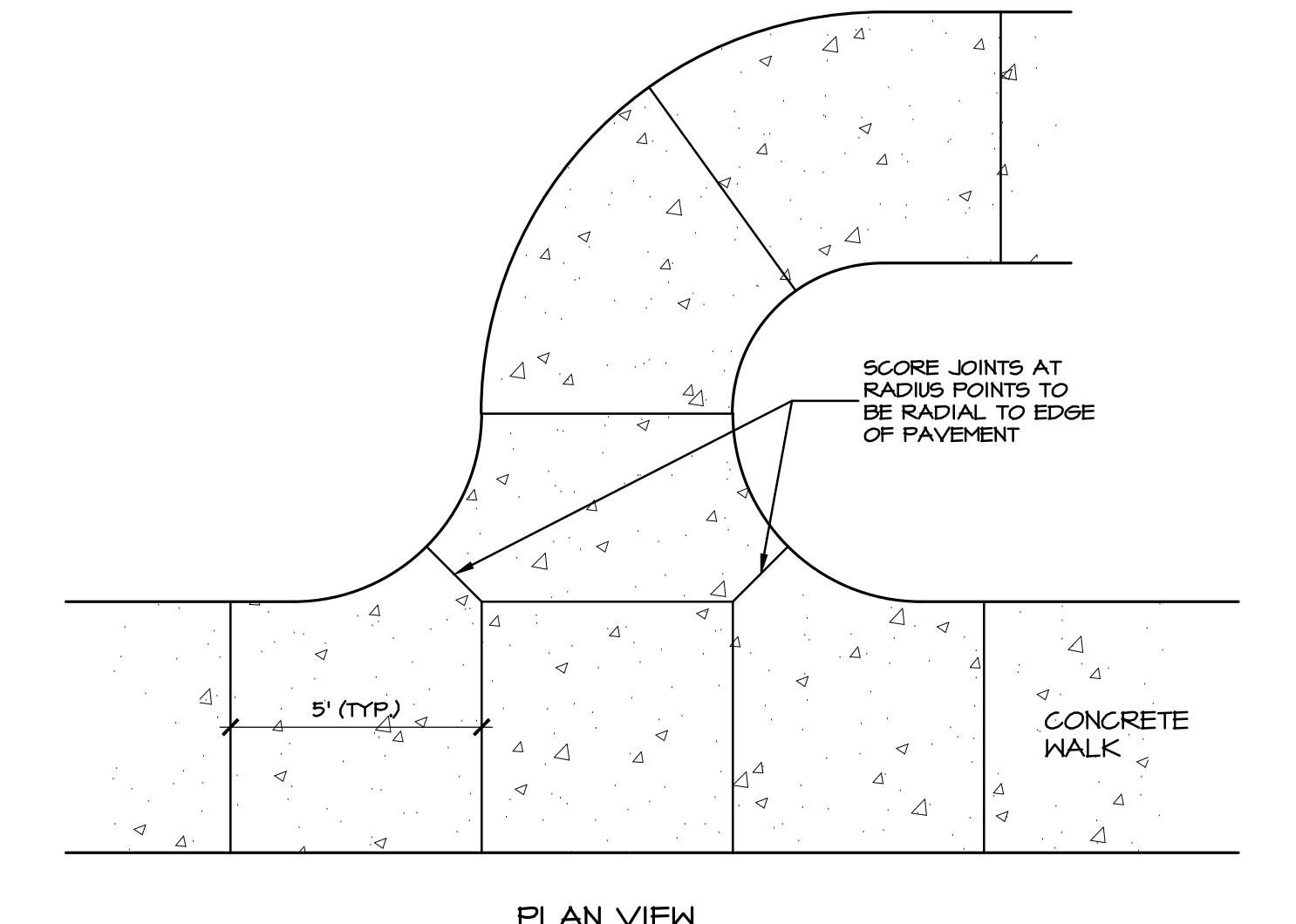
B PAVEMENT MARKING DETAIL
NO SCALE



E WOOD TRASH ENCLOSURE DETAIL
NO SCALE



C REINFORCED CONCRETE APRON AT CURB CUT
NO SCALE



D RADIAL SCORING JOINT
NO SCALE

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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

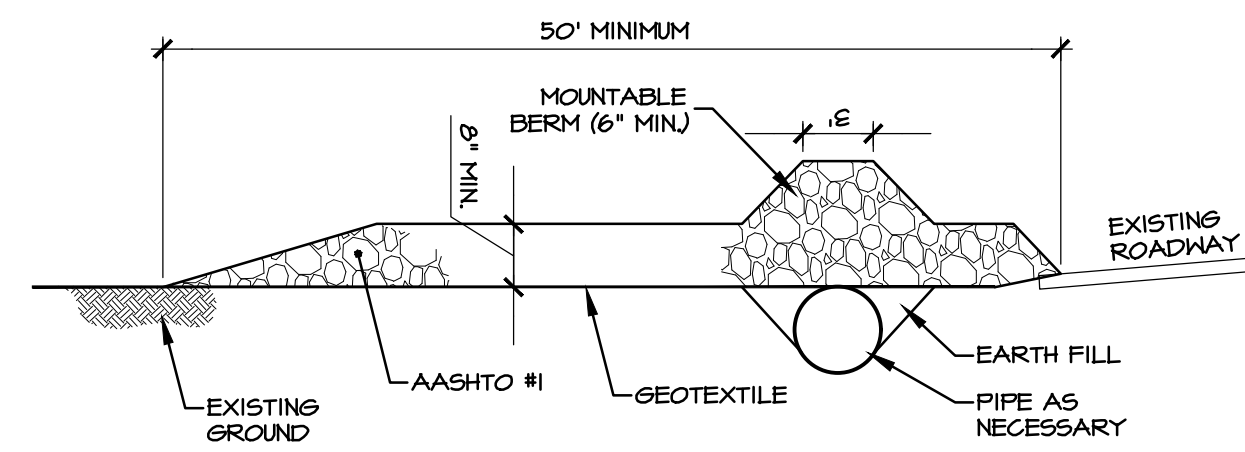
FINAL PHASE 1 PLAN

SUBJECT:
SITE DETAILS

FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

CLIENT:
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150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = XX'



1. SEDIMENT DEPOSITED ON PUBLIC ROADWAYS SHOULD BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR DRAINAGE COURSES INTO DITCHES, CULVERTS, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
2. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK COVER OVER FULL WIDTH OF ENTRANCE.
3. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
4. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
5. HASH RACK SUBSTITUTE, PUBLIC STREET SHEEPING WITH A VACUUM SHEEPER AND ROLLING OF DIRT AND GRAVEL ROADS AT THE END OF EACH WORK DAY (OR MORE FREQUENTLY AS NEEDED), MANUAL CLEANING OF TIRES PRIOR TO SITE EGRESS IS PERMITTED. TOPOGRAPHY OR THE ABSENCE OF ELECTRICITY MAY PREVENT THE USE OF GAS-POWERED VACUUM SHEEPERS. VACUUM SHEEPERS CAN REMOVE ACCUMULATED SEDIMENT FROM STREETS BEFORE IT IS WASHED INTO SURFACE WATERS. TIRES CAN BE CLEANED OFF MANUALLY WITH A BRUSH PRIOR TO ENTERING THE ROADWAY. DIRT AND GRAVEL WASHED AREAS AFFECTED BY TRACKED MUD, REQUIRES CONTINUOUS MAINTENANCE.

1. RACK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE.
2. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE DEPOSITED ON ROADWAY, EXTENDING LENGTH OF RACK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ADJACENT DITCHES, DIVERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

1. INSPECTION OF ROCK CONSTRUCTION ENTRANCES SHALL OCCUR AS FOLLOWS:
 - WEEKLY
 - AFTER EACH RUNOFF EVENT (THIS IS REQUIRED IN ADDITION TO THE REQUIRED WEEKLY INSPECTION)
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
 - (1) A SUMMARY OF SITE CONDITIONS, EIS BMP AND PCSPM BMP, IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS; AND
 - (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.

SPECIES	ANNUAL RYE (SPRING) OR WINTER RYE (FALL)
% PURE LIVE SEED	95%
APPLICATION RATE	200 LB/ACRE
FERTILIZER TYPE	10-10-10
FERTILIZER APPL. RATE	500 LB/ACRE
LIMING RATE	1 TON/ACRE
MULCH TYPE	HAY OR STRAW
MULCHING RATE	3 TONS/ACRE

TOPSOIL PLACEMENT DEPTH	4-8 IN.
SPECIES	TALL FESCUE AND PERENNIAL RYEGRASS (1)
% PURE LIVE SEED	95%
APPLICATION RATE	344 LB./ACRE (8 LBS/1,000 SF)
FERTILIZER TYPE	PER SOIL TEST (0-10-20 IF NO TEST DATA)
FERTILIZER APPL. RATE	PER SOIL TEST 1,000 LB/ACRE IF NO TEST DATA)
LIMING RATE	PER TEST (6 TONS/ACRE IF NO TEST DATA)
MULCH TYPE	HAY OR STRAW
MULCHING RATE	3 TONS/ACRE
ANCHOR MATERIAL	POLYMERIC TACKIFIER
ANCHORING METHOD	SPRAY APPLY W/ A HYDRO-SEEDER OR SIMILAR
RATE OF ANCHOR MATERIAL APPL.	20 LB/ACRE
SEEDING SEASON DATES	APRIL 1 - OCTOBER 15

1. TALL FESCUE / PERENNIAL RYEGRASS MIX SHALL BE: 80% PENNINGTON "KENTUCKY 31" TALL FESCUE AND 20% PENNINGTON "SMART SEED" PERENNIAL RYEGRASS (OR APPROVED EQUAL). THE FESCUE AND RYEGRASS (MIXED OR UNMIXED) ARE TO BE APPLIED AT THE SAME RATE THEREFORE, MIX THE SEED AT 80%/20% AS SPECIFIED ABOVE AND APPLY AT 344 LBS/AC.
2. IF PERMANENT SEEDING IS NOT PRACTICAL DUE TO THE TIME OF YEAR, DISTURBED AREA SHALL BE SEEDDED WITH ANNUAL RYE (SPRING) OR WINTER RYE (FALL) GRASS AT A RATE OF 200 LBS/ACRE AND MULCHED WITH STRAW AT A RATE OF 3 TONS PER ACRE.
3. IT IS RECOMMENDED THAT SOIL TESTING BE DONE PRIOR TO SEEDING AND MULCHING TO DETERMINE THE PROPER SOIL AMENDMENTS AND APPLICATION RATES FOR THE PROPOSED SEED MIXTURE(S). IN THE ABSENCE OF A SOIL TEST, SOIL AMENDMENTS SHOULD BE ADDED AT THE RATES SPECIFIED BY THE SELECTED SEEDING REFERENCE.
4. FILL SLOPES SHOULD BE SEEDDED AND MULCHED AT REGULAR VERTICAL INCREMENTS - 15 TO 25 FEET MAXIMUM - AS THE FILL IS BEING CONSTRUCTED. THIS WILL ALLOW THE BOTTOM OF THE FILL TO PROGRESS TOWARD STABILIZATION WHILE WORK CONTINUES ON THE UPPER PORTION, MAKING FINAL STABILIZATION EASIER TO ACHIEVE AND PROVIDING SOME VEGETATIVE BUFFERING AT THE BOTTOM OF THE SLOPE.
5. WHEREVER SEED AND MULCH IS APPLIED BY HYDROSEEDING METHODS, THE SEED AND MULCH SHOULD BE APPLIED IN SEPARATE APPLICATIONS WITH THE SEED BEING APPLIED FIRST AND THE MULCH SPRAYED ON TOP OF THE SEED. THIS IS TO ENSURE THAT THE SEED MAKES CONTACT WITH THE UNDERLYING SOIL. SOIL PREPARATION SHOULD BE COMPLETED PRIOR TO ADDING SEED TO THE HYDROSEEDING EQUIPMENT. RUNNING SEED THROUGH THE PUMPING SYSTEM CAN RESULT IN EXCESSIVE ABRASION OF THE SEED AND REDUCE THE PERCENTAGE OF PURE LIVE SEED IN THE APPLICATION. THEREFORE ALL SITE PREPARATION SHOULD BE COMPLETED PRIOR TO THE ARRIVAL OF THE HYDROSEEDER.
6. IN CRITICAL AREAS (E.G. ADJACENT TO OR WITHIN 50 FEET OF STREAMS, PONDS, OR WETLANDS) A PROTECTIVE BLANKET SHOULD BE PROVIDED FOR ALL SEEDDED AREAS. CONSIDERATION SHOULD BE GIVEN TO USE OF MULCH WITH NETTING OR PROTECTIVE BLANKETS FOR ALL SEEDDED AREAS ON SLOPES 3:1V OR STEEPER.
7. WHEN WETLAND AREAS ARE TEMPORARILY DISTURBED, ISOLATE AND STOCKPILE TOPSOIL FOR REPLACEMENT AFTER GRADING IS COMPLETED. IN MOST CASES, NO SEEDING OF THE DISTURBED AREA IS NECESSARY AFTER THE TOPSOIL IS REPLACED. THE SOIL CONTAINS SUFFICIENT SEED AND ROOT MATERIAL TO REESTABLISH VEGETATION. IF TEMPORARY VEGETATIVE STABILIZATION IS NECESSARY, APPLY ANNUAL RYEGRASS AT THE RATE NOT EXCEEDING 48 LB PLS/ACRE. APPLY CLEAN STRAW AS A MULCH AT THE RATE OF 3 TONS/ACRE. NO SOIL AMENDMENTS SHOULD BE USED ON WETLAND AREAS.
8. VEHICULAR TRAFFIC SHOULD BE RESTRICTED FROM AREAS TO BE SEEDDED TO PREVENT SOIL COMPACTION.
9. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
10. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES.
11. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS.
12. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.

NO SCALE



NOT TO SCALE



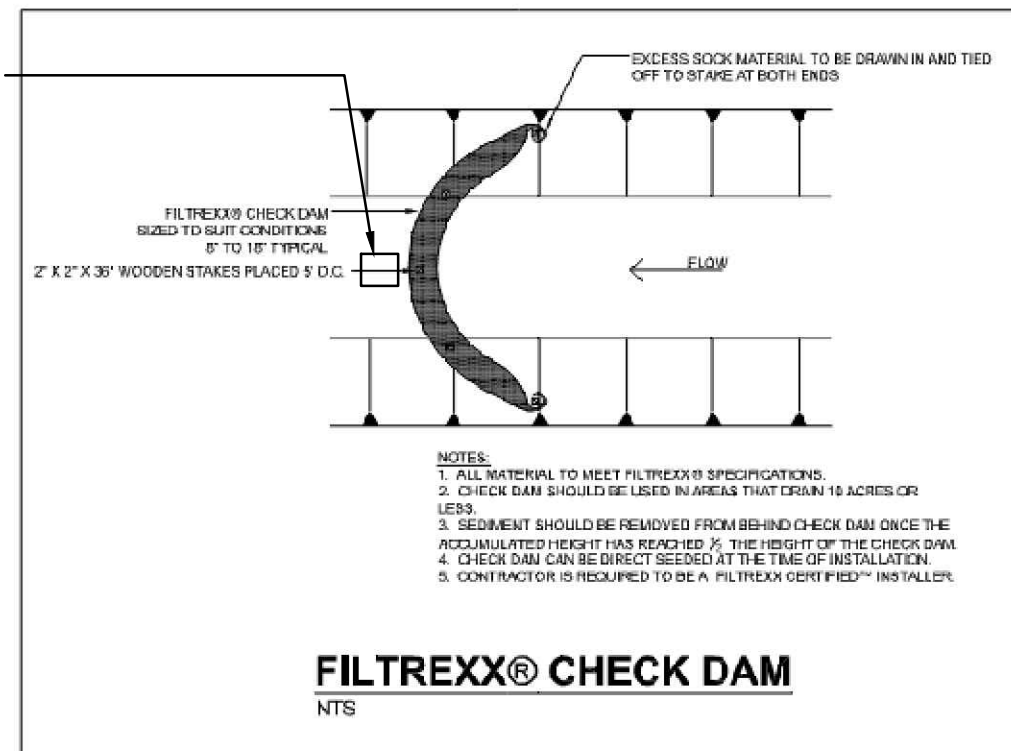
NOT TO SCALE

FILTER SOCK FABRIC MINIMUM SPECIFICATIONS					
MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFFP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDHFFP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 psi	26 psi	44 psi	202 psi
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-55)	23% AT 1000 hr.	23% AT 1000 hr.		100% AT 1000 hr.	100% AT 1000 hr.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS

INNER CONTAINMENT NETTING	HDPE BIAXIAL NET
	CONTINUOUSLY WOUND
	FUSION-WELED JUNCTURES
	3/4" X 3/4" MAX. APERTURE SIZE
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)
	3/16" MAX. APERTURE SIZE
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.	

1. COMPOST SHOULD BE A WELL DECOMPOSED, NEED-FREE ORGANIC MATTER DERIVED FROM AGRICULTURE, FOOD, STUMP GRINDINGS, AND YARD OR WORK/BARK/ORGANIC MATTER SOURCES. THE COMPOST SHOULD BE AEROBICALLY COMPOSTED AND SHOULD NOT HAVE ANY DETECTABLE OR OBJECTABLE ODORS AND SHOULD BE REASONABLY FREE (KIB BY DRY WEIGHT) OF MAN-MADE FOREIGN MATTER. THE COMPOST PRODUCT SHOULD NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS THE ORGANIC COMPOST OF THE MIX.

ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM



Advanced Tubular Filters

DiversionSoxx Product Specs:

Netting Material Type	Original Pallet Netting Heavy Duty Multi-Filament Polypropylene (MFPP)
Netting Degradation	Photodegradable
Netting Diameters	12", 18", 24"
Netting Opening Size	1/8"
Netting Color	Green w/ Thin Black Stripes
Fabric Tensile Strength (ASTM D4595)¹	546 (Original Netting)
Fill Type	50% Composted Hardwood Mulch/ 50% Leaf Compost
Functional Longevity²	1-2 years
Staking Recommendation	Every 5 ft

Item Number	Diameter	Total Linear Feet per pallet	Unit Length	Units per pallet	Stakes per pallet	Pallet Weight
PI2-10-DS	12-in	110-ft	110-ft	1	12	~ 2100 lbs
PB12-10-DS	12-in	110-ft	110-ft	1	12	~ 2100 lbs
PN12-10DS-10-DS	12-in	100-ft	10-ft	10	0	~ 1950 lbs
PB18-5S-DS	18-in	55-ft	55-ft	1	6	~ 2100 lbs
PS24-40-DS	24-in	40-ft	40-ft	1	5	~ 2100 lbs

Pallets per TL	22
Shipping Dimensions	40L x 48W x 66H
Packaging	40 x 48 Pallet with Plastic Stretch-Wrap or Super Sack
Storage Life	Under Roof - 6 months / Outdoors - 3 months

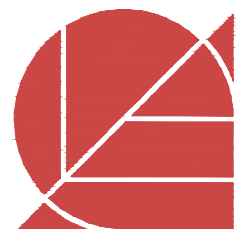


PERMANENT SEEDING/VEGETATIVE STABILIZATION WILL BE IN ACCORDANCE WITH THE SEEDING SCHEDULE AND THE FOLLOWING PROCEDURES:

1. ROUGH GRADE AND REMOVE ALL DEBRIS, LARGE STONES, AND CONSTRUCTION MATERIALS.
2. APPLY AGRICULTURAL GRADE LIME AS SPECIFIED BY THE SOIL TEST OR AT A MINIMUM RATE OF 6 TONS/ACRE.
3. APPLY FERTILIZER IN ACCORDANCE WITH THE SOIL TEST. IN THE ABSENCE OF A SOIL TEST, APPLY 10-10-20 FERTILIZER AT A RATE OF 1,000 lbs/ACRE.
4. TILL ALL ABOVE MATERIALS THOROUGHLY INTO A 4"-6" SOIL DEPTH.
5. FINISH GRADE FOR SEEDING.
6. APPLY SEED AT THE SPECIFIED APPLICATION RATE AS INDICATED ON THE SEEDING SCHEDULE(S) - SEE GENERAL SEEDING NOTE 2.
7. RAKE OR DRAG TO COVER SEED LIGHTLY.
8. ROLL LIGHTLY TO PLACE SEED IN CONTACT WITH THE SOIL.
9. APPLY HAY OR STRAW MULCH AT A RATE OF 3 TONS/ACRE.
10. MULCH SHALL BE ANCHORED AS SPECIFIED OR IN ACCORDANCE WITH THE CURRENT PENN STATE UNIVERSITY AGRONOMY GUIDE.

TOPSOIL PLACEMENT DEPTH	4-8" IN.
SPECIES	TALL FESCUE AND PERENNIAL RYEGRASS (1)
% PURE LIVE SEED	95%
APPLICATION RATE	344 LB./ACRE (8 LBS/1,000 SF)
FERTILIZER TYPE	PER SOIL TEST (10-10-20 IF NO TEST DATA)
FERTILIZER APPL. RATE	PER SOIL TEST (1,000 LB/ACRE IF NO TEST DATA)
LIMING RATE	PER SOIL TEST (6 TONS/ACRE IF NO TEST DATA)
MULCH TYPE	HAY OR STRAW
MULCHING RATE	3 TONS/ACRE
ANCHOR MATERIAL	LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETTING
ANCHORING METHOD	APPLY/STAPLE TO MANUFACTURER'S SPECS
RATE OF ANCHOR MATERIAL APPL.	REFER TO MANUFACTURER'S SPECIFICATIONS
SEEDING SEASON DATES	APRIL 1 - OCTOBER 15

REVISIONS PER:		DATE:	BY:
1.	-	-	-
2.	-	-	-
3.	-	-	-
4.	-	-	-
5.	-	-	-



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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SUBJECT:
ESC DETAILS

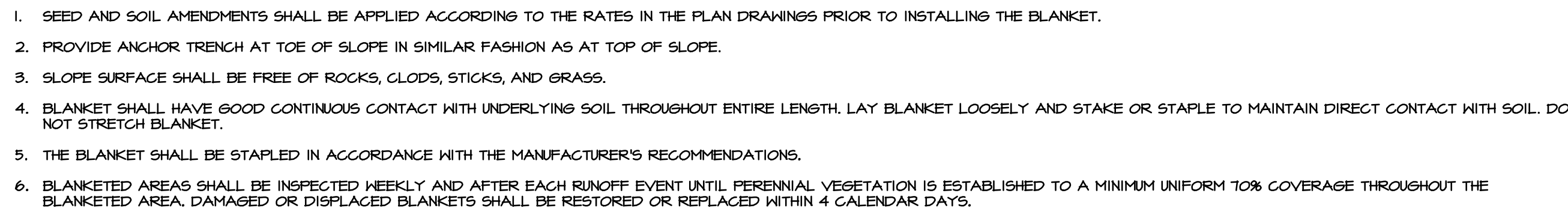
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	AS NOTED

DRAWING NO

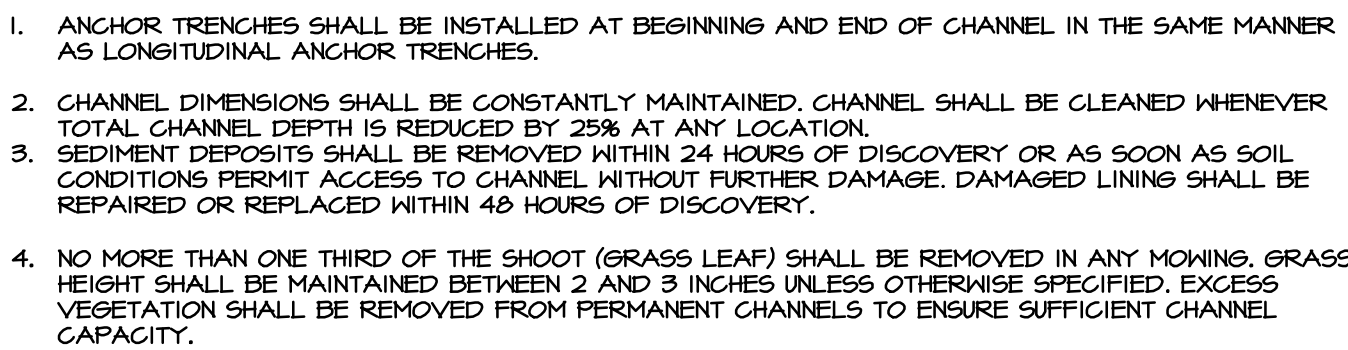
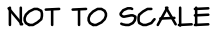
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NOT TO SCALE

1. STRAW AND HAY MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.
2. ASPHALT, EITHER EMULSIFIED OR CUT-BACK, CONTAINING NO SOLVENTS OR OTHER DILUTING AGENTS TOXIC TO PLANT OR ANIMAL LIFE, UNIFORMLY APPLIED AT THE RATE OF 31 GALLONS PER 1000 SQ YD MAY BE USED TO TACK MULCH.
3. SYNTHETIC BINDERS (CHEMICAL) MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.
4. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

NO SCALE



NOT TO SCALE

1. INSTALL WITH CORRUGATIONS VERTICAL.
2. MINIMUM DISTANCE TO PIPE JOINT SHALL BE 2 FEET.
3. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT. THE LAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE CAULKED WITH ASPHALTIC MASTIC AT TIME OF INSTALLATION.
4. COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

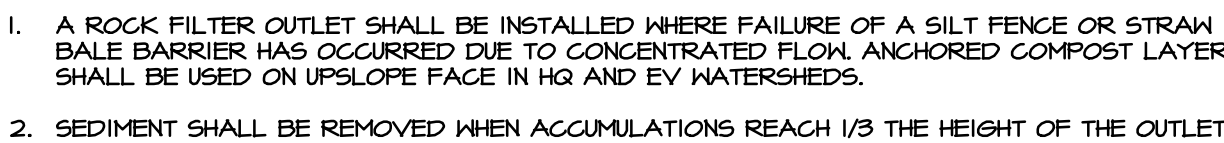
NO SCALE



WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINAGE, OPEN DITCHES OR SURFACE WATERS. THEY SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. WHEREVER POSSIBLE, THEY SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE. ADDITIONAL INFORMATION ON	STORMWATER	WEBSITE	AT
http://cftp.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&mp=117&mmeuse=14 http://www.epa.gov			

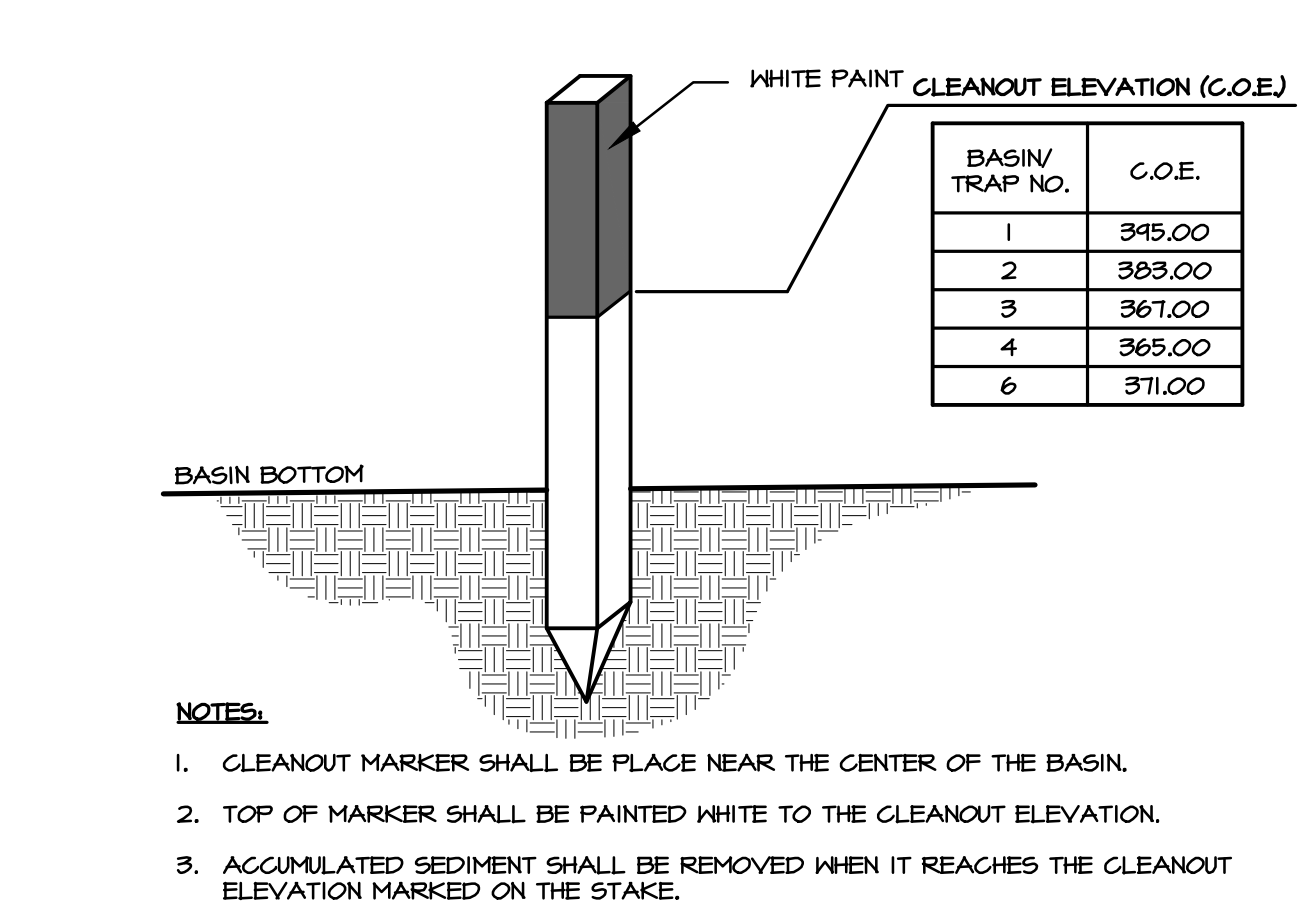
WHEREVER COMPOST SOCK WASHOUTS ARE USED, A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANCE SO AS TO FORM A RING WITH ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER. CARE SHOULD BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANCE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS-SECTION.

NO SCALE

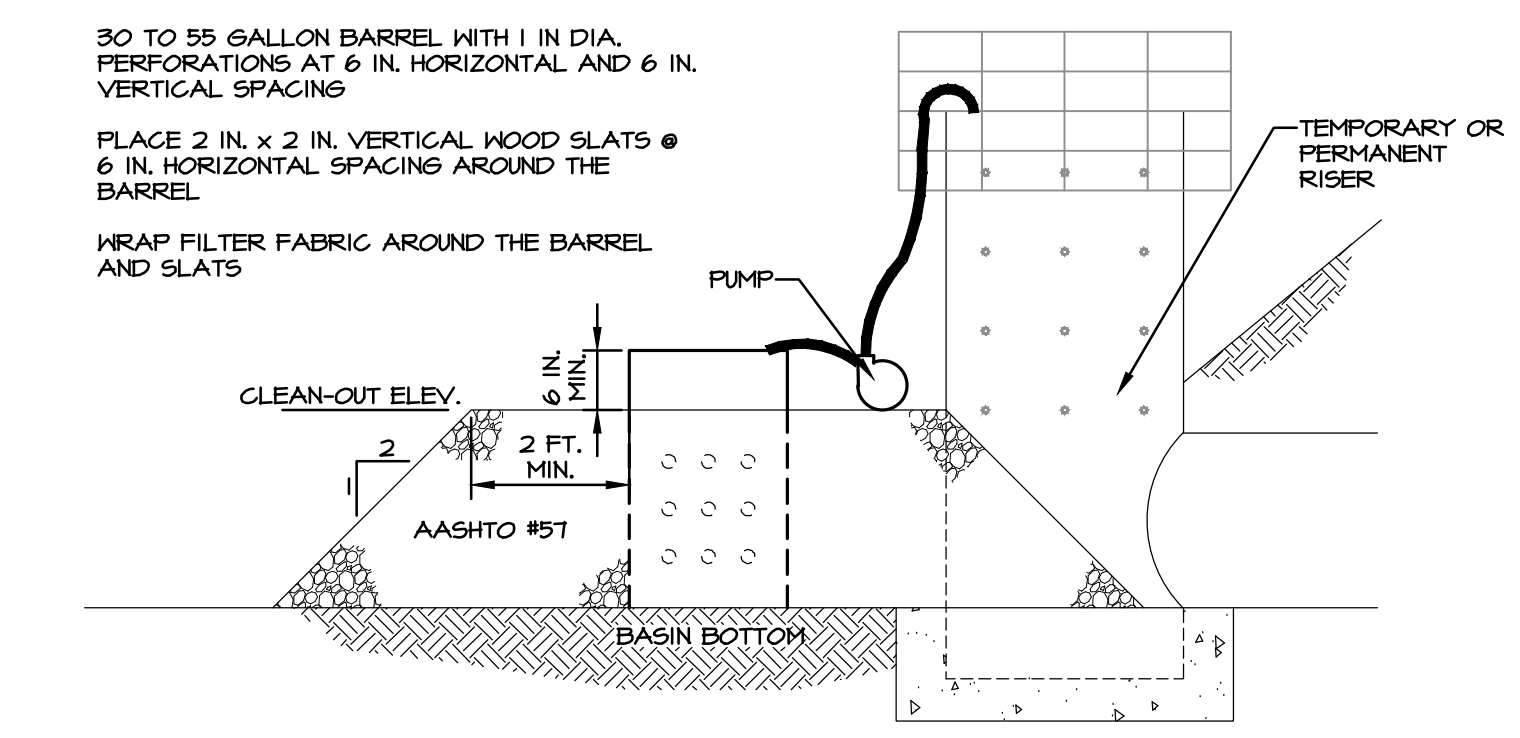


NOT TO SCALE

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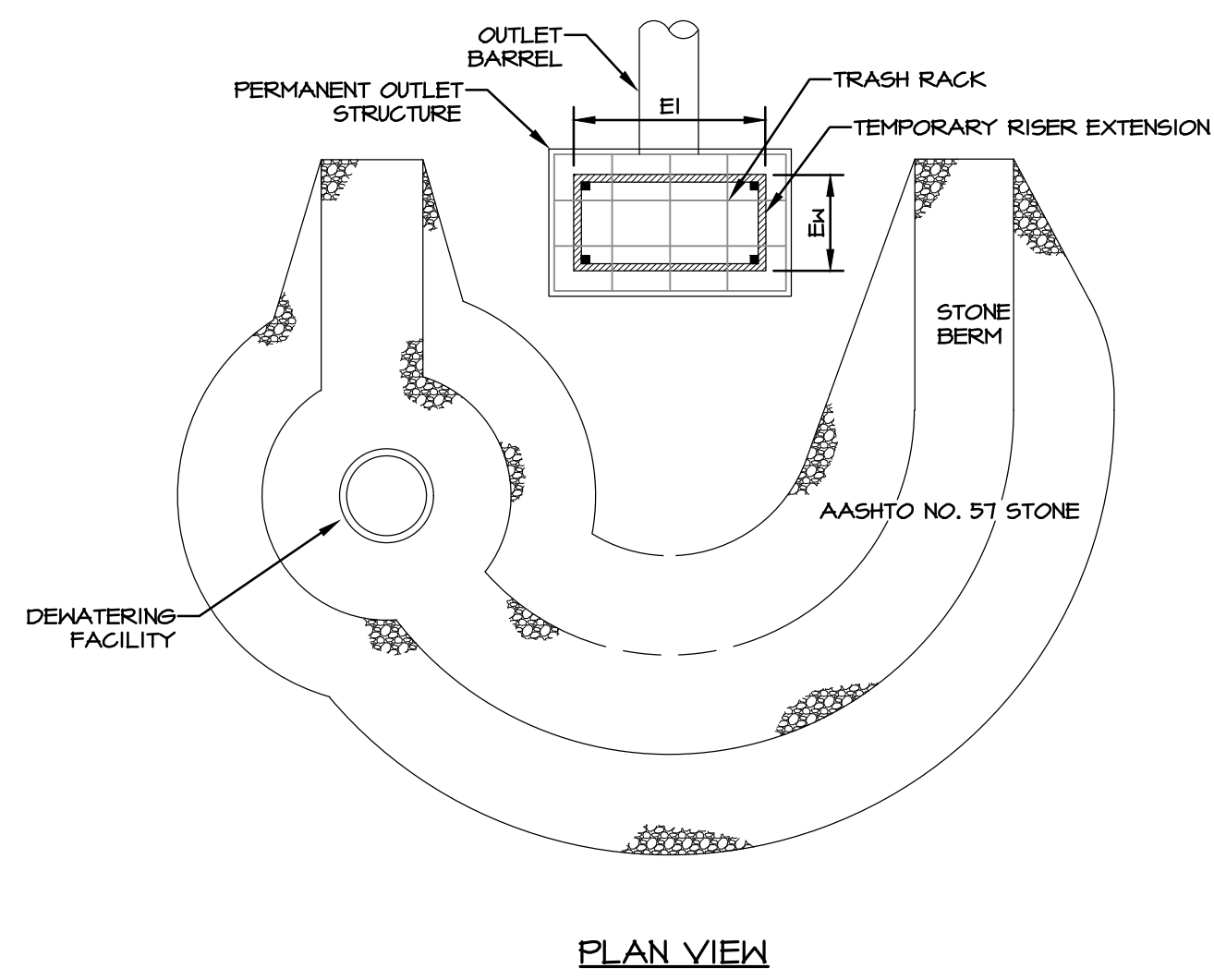


A CLEANOUT MARKER
NOT TO SCALE



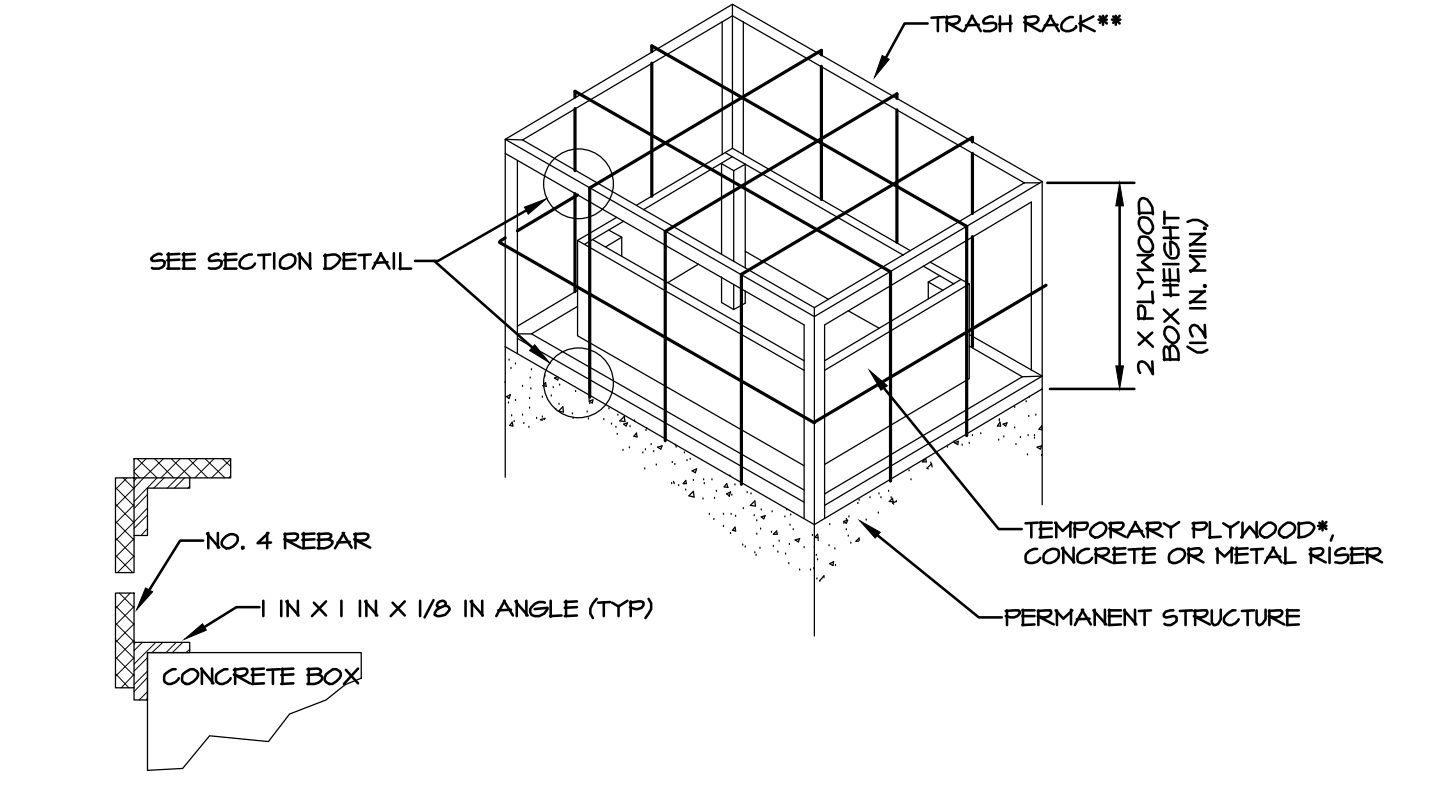
- NOTES:**
1. Dewatering facility shall be installed immediately upon completion of basin/trap.
 2. Prior to initiating operation of dewatering facility, all accumulated sediment shall be cleaned from the inside of the barrel.
 3. Dewatering facility shall be continuously monitored during operation. If for any reason the dewatering facility ceases to function properly, it shall be immediately shut down and not restarted until the problem has been corrected.

**B SEDIMENT BASIN OR SEDIMENT TRAP
SEDIMENT STORAGE DEWATERING FACILITY**
NO SCALE



- NOTES:**
1. NO GUIDE RAILS SHALL BE REQUIRED FOR THIS INSTALLATION.
 2. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH SKIMMER ATTACHED TO PERMANENT RISER DETAIL AND SEDIMENT BASIN EMBANKMENT AND SPILLWAY DETAILS-SKIMMER.

C STONE LANDING BERM
NO SCALE

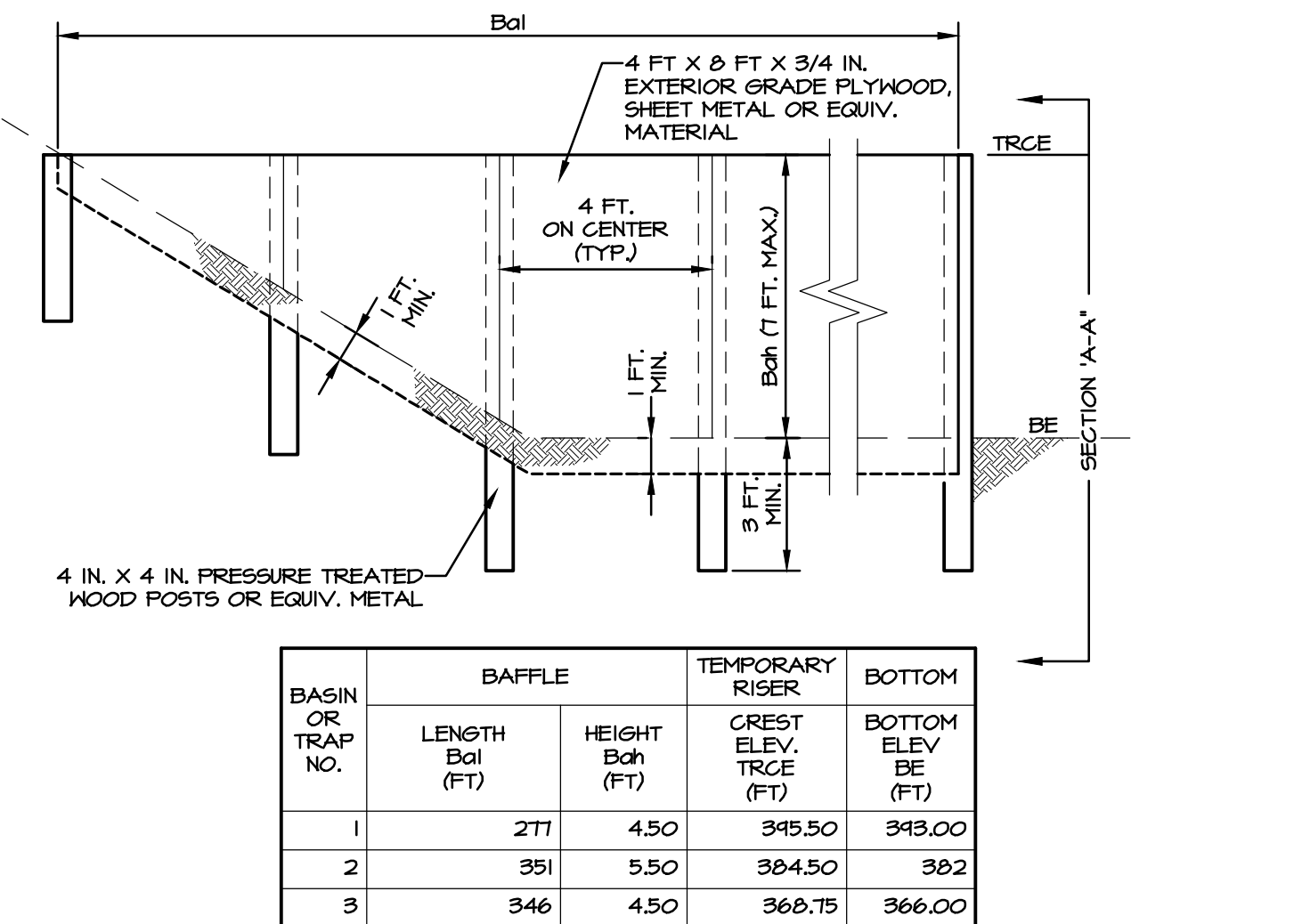
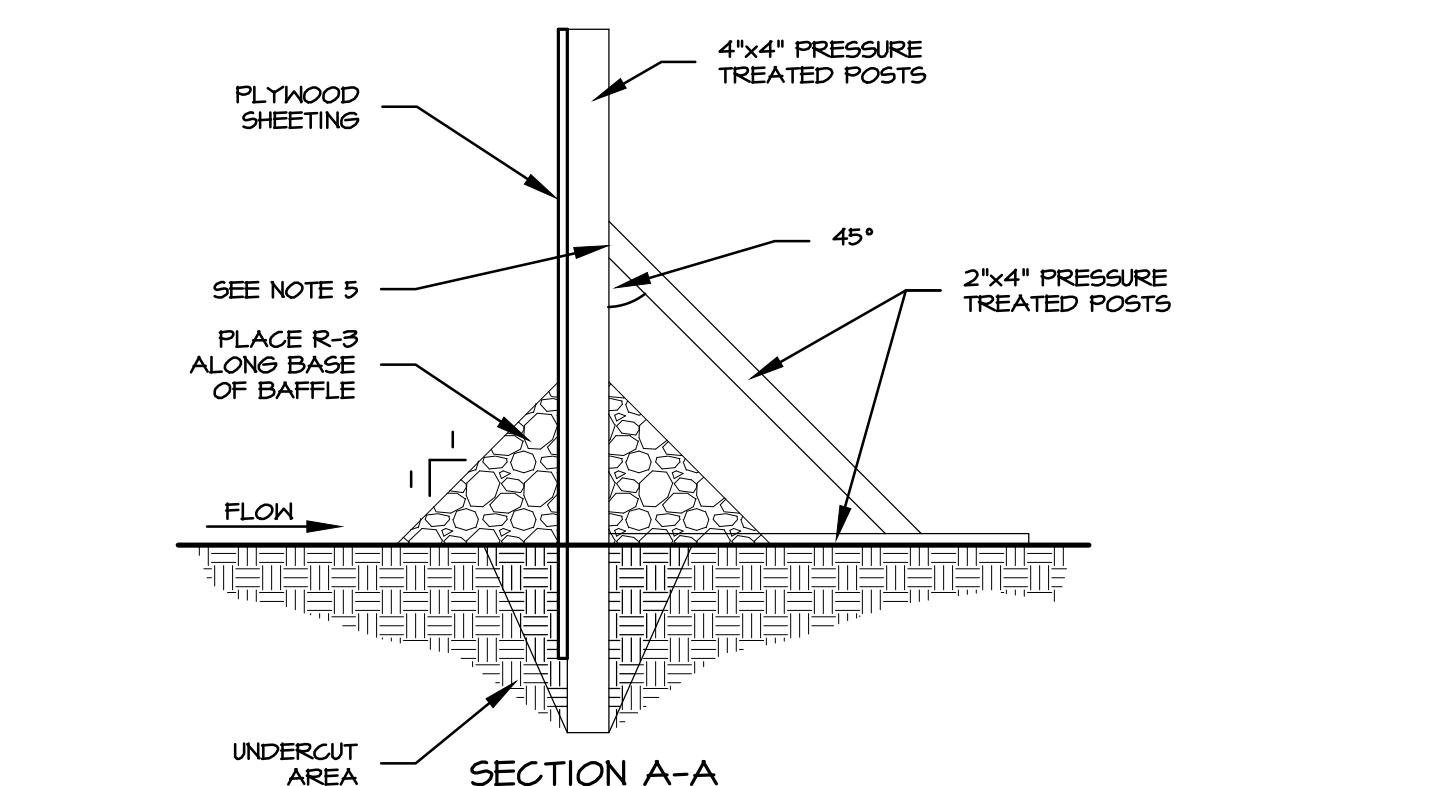


SECTION DETAIL

- * 3/4 IN. PRESSURE TREATED PLYWOOD BOX WITH 2 IN. X 2 IN. PRESSURE TREATED CORNER SUPPORTS, SET INTO 1-1/2 IN. GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTIGHT SEALS.
** TRASH RACK COMPOSED OF 1 IN. X 1 IN. X 1/8 IN. L (TYP) AND #4 BARS (TYP) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER OF THE BARREL MAX.

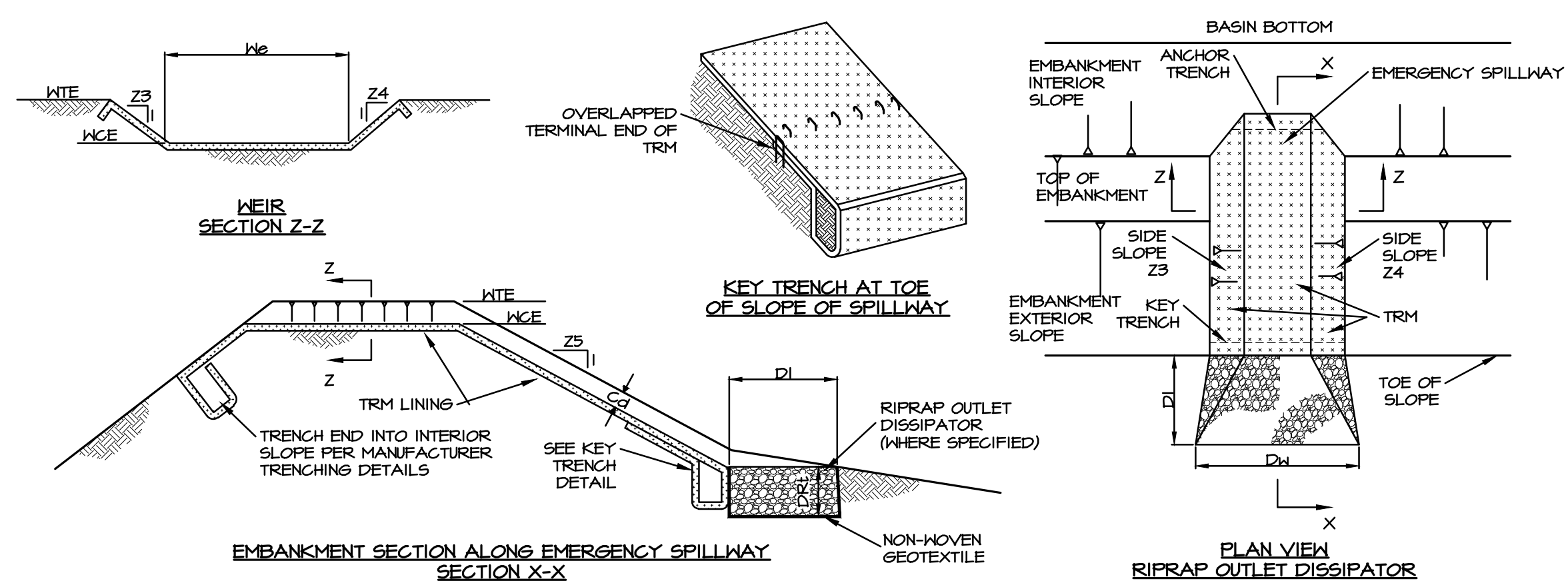
- NOTES:**
1. BOX SHALL BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.
 2. TOP OF TEMPORARY RISER EXTENSION SHALL BE AT LEAST AS HIGH AS SEDIMENT BASIN TEMPORARY RISER AND SHALL BE 6 IN. (MINIMUM) BELOW CREST OF EMERGENCY SPILLWAY.
 3. ALL JOINTS SHALL BE WATER TIGHT.
 4. CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

D TEMPORARY RISER EXTENSION AND TRASH RACK FOR PERMANENT STRUCTURE
NO SCALE



- NOTES:**
1. SEE APPROPRIATE BASIN DETAIL FOR PROPER LOCATION AND ORIENTATION.
 2. AN ACCEPTABLE ALTERNATIVE IS TO INSTALL A SUPER SILT FENCE AT THE BAFFLE LOCATION
 3. IN POOLS WITH DEPTHS EXCEEDING 1', THE TOP OF THE PLYWOOD BAFFLE DOES NOT NEED TO EXTEND TO THE TEMPORARY RISER CREST.
 4. BAFFLES SHALL BE TIED INTO ONE SIDE OF THE BASIN UNLESS OTHERWISE SHOWN ON THE PLAN DRAWINGS.
 5. SUBSTITUTION OF MATERIALS NOT SPECIFIED IN THIS DETAIL SHALL BE APPROVED BY THE DEPARTMENT OR THE LOCAL CONSERVATION DISTRICT BEFORE INSTALLATION.
 6. DAMAGED OR WARPED BAFFLES SHALL BE REPLACED WITHIN 7 DAYS OF INSPECTION.
 7. BAFFLES REQUIRING SUPPORT POSTS SHALL NOT BE INSTALLED IN BASINS REQUIRING IMPERVIOUS LINERS.

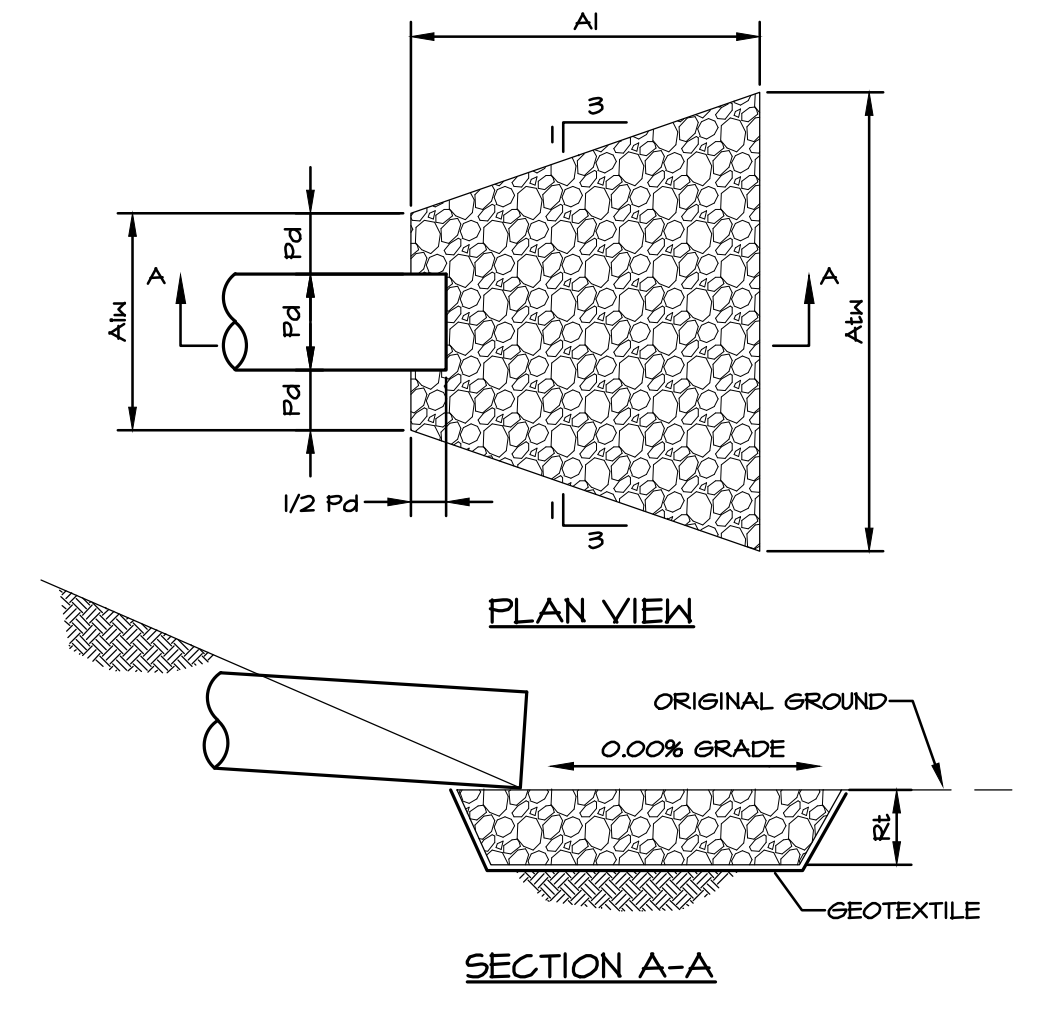
E BAFFLE
NO SCALE



EMERGENCY SPILLWAY DESIGN SCHEDULE														NOTES
BMP NO.	WEIR					LINING		CHANNEL		DISSIPATOR				
	Z3 (FT)	Z4 (FT)	TOP ELEV. WTE (FT)	PERM. CREST ELEV. WCE (FT)	WIDTH WE (FT)	TRM/LINING TYPE	STAPLE PATTERN	Z5 (FT)	DEPTH Cd (FT)	LENGTH D1 (FT)	WIDTH D4 (FT)	RIPRAP SIZE (R- <u> </u>)	RIPRAP THICKNESS D1t (IN)	
15	4	4	367.50	366.25	25	P300	D	5	0.5	N/A	N/A	N/A	N/A	1. RIPRAP AT TOE OF EMBANKMENT SHALL BE EXTENDED A SUFFICIENT LENGTH IN BOTH DIRECTIONS TO PREVENT SCOUR.
20	4	4	370.50	369.25	30	P300	D	6	0.5	N/A	N/A	N/A	N/A	2. THE USE OF BAFFLES THAT REQUIRE SUPPORT POSTS ARE RESTRICTED FROM USE IN BASINS REQUIRING IMPERVIOUS LINERS.
23	4	4	366.00	365.00	20	P300	D	5	N/A	N/A	N/A	N/A	N/A	3. HEAVY EQUIPMENT SHALL NOT BE TAKEN OVER SPILLWAY WITHOUT PREVIOUSLY TAKEN TO PROTECT TRIM LINER.
26	4	4	347.00	346.00	35	P300	D	4	0.25	N/A	N/A	N/A	N/A	4. DISPERSED LINER WITHIN THE

- NOTES:**
1. RIPRAP AT TOE OF EMBANKMENT SHALL BE EXTENDED A SUFFICIENT LENGTH IN BOTH DIRECTIONS TO PREVENT SCOUR.
 2. THE USE OF BAFFLES THAT REQUIRE SUPPORT POSTS ARE RESTRICTED FROM USE IN BASINS REQUIRING IMPERVIOUS LINERS.
 3. HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING.
 4. DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY.
 5. LINE ENTIRE LENGTH & WIDTH OF SPILLWAY w/ SPECIFIED EROSION CONTROL MATTING & EXTEND TO TOE OF SLOPE OF OUTSIDE EMBANKMENT

F BASIN EMERGENCY SPILLWAY WITH TRM LINING
NO SCALE



OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP		APRON		
		SIZE R-__	THICK. Rt (IN)	LENGTH At (FT)	INITIAL WIDTH A1w (FT)	TERMINAL WIDTH A2w (FT)
ST-6	18	3	4	8.50	4.50	13.00

- NOTES:**
1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
 2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.
 3. EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

H RIPRAP APRON AT PIPE OUTLET WITH NO FLARED ENDWALL
NO SCALE

REVISIONS PER: 1. - 2. - 3. - 4. - 5. - DATE: - - - - - BY: - - - - -

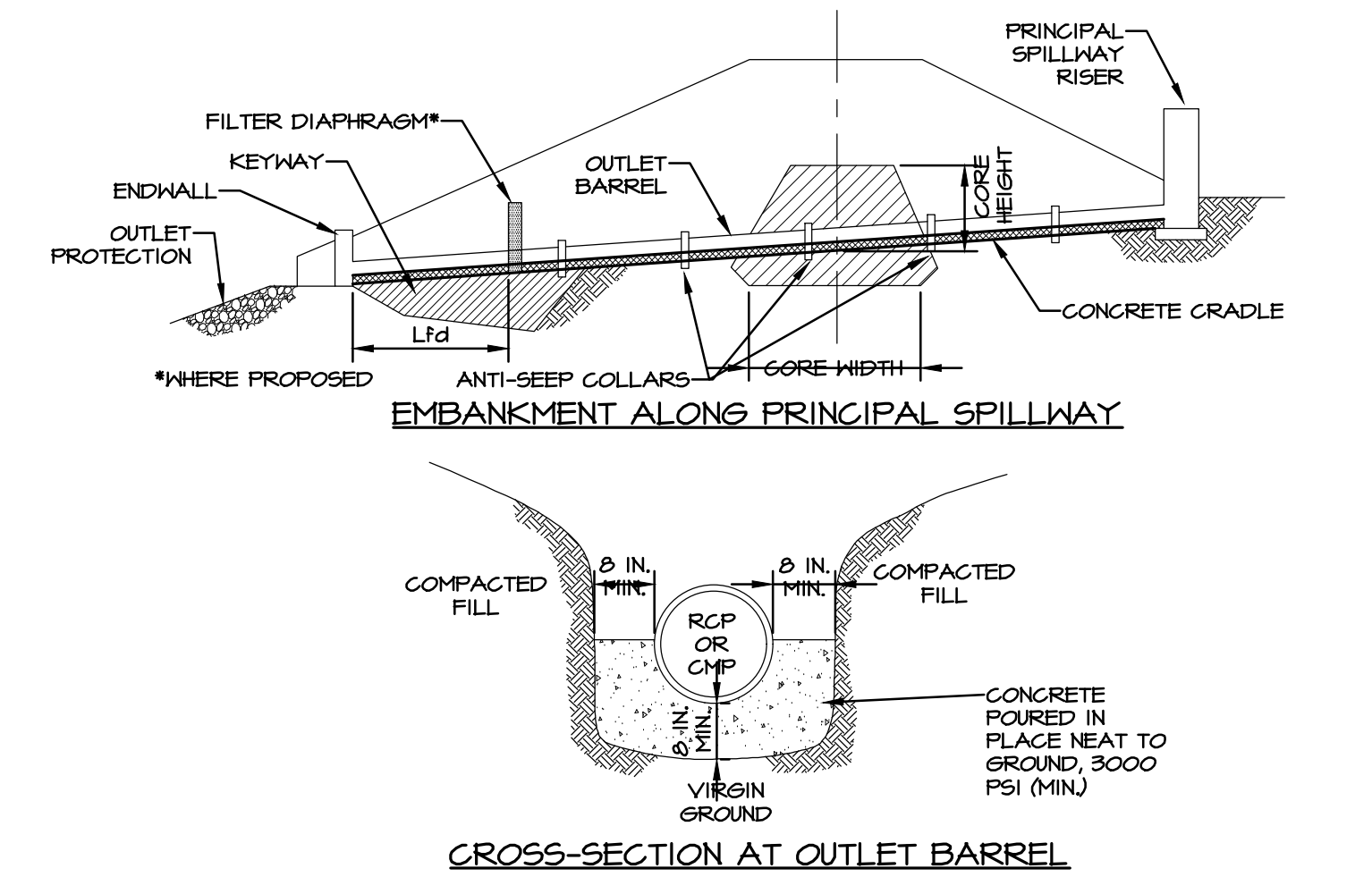
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ENGINEERS + LANDSCAPE ARCHITECTS
4139 Oregon Pike, Ephrata, PA 17522 717.626.7271
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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

FINAL PHASE 1 PLAN
SUBJECT:
ESC DETAILS
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER: BDG DATE: AUG. 3, 2026
ENGINEER: TEH PROJECT NO. 1212-004
CAD DESIGNER: TRS SCALE: AS NOTED

DRAWING NO.
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CONCRETE CRADLE LENGTH	
TRAP / BASIN NO.	LENGTH (FT)
TRAP 1	324
TRAP 2	4150
TRAP 3	5450
TRAP 4	2250
TRAP 6	62

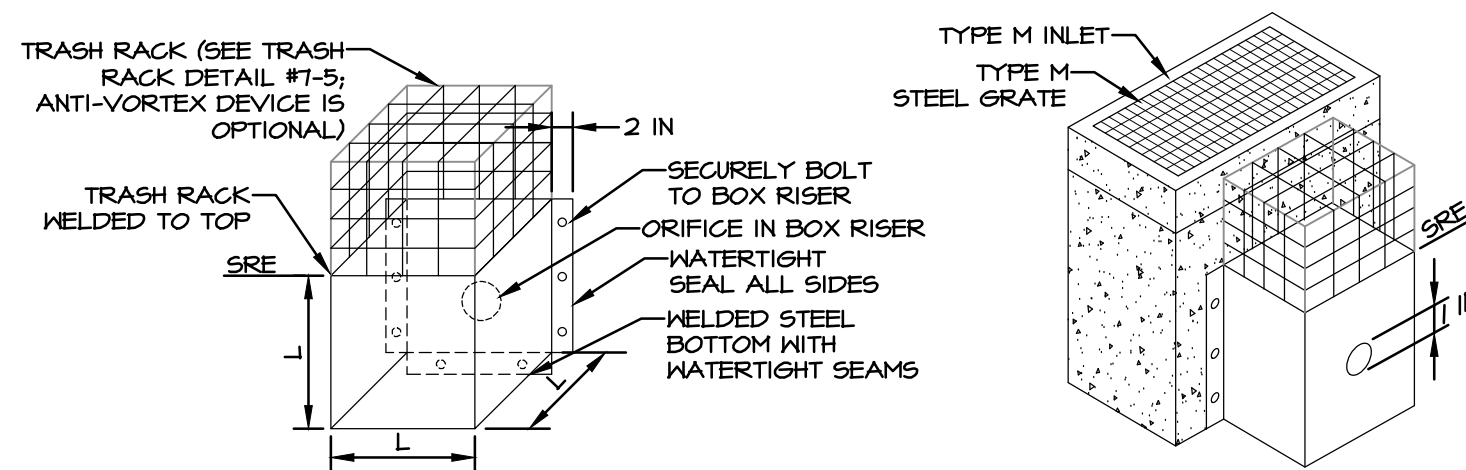
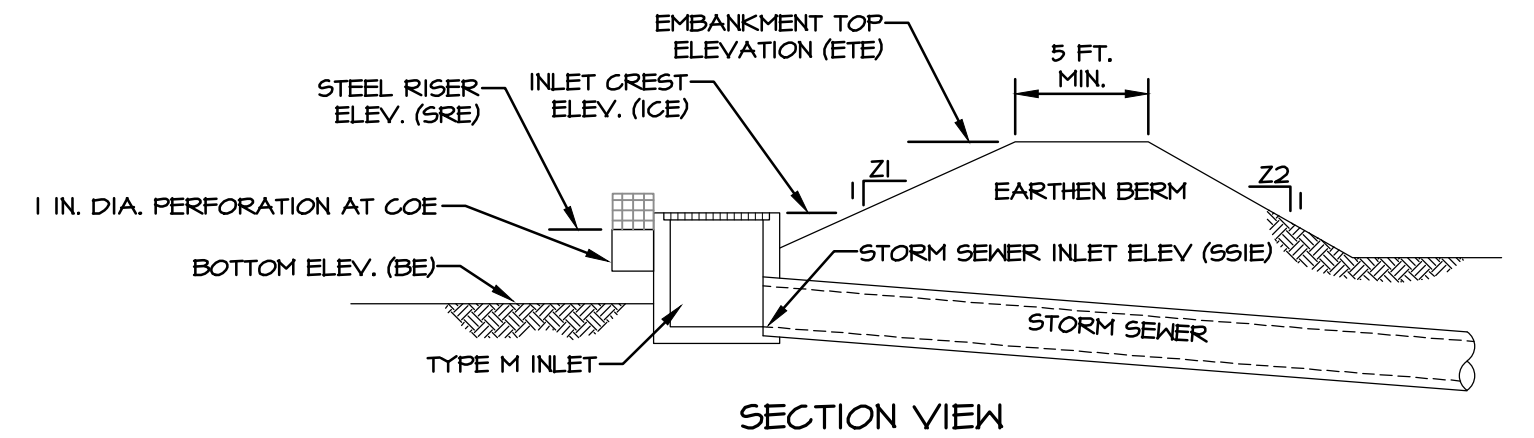
NOTES:

1. A CONCRETE CRADLE MAY BE USED IN CONJUNCTION WITH ANTI-SEEP COLLARS AND/OR FILTER DIAPHRAGM.
2. ANTI-SEEP COLLAR NUMBER, SIZE AND SPACING SHALL BE AS SHOWN ELSEWHERE IN PLAN.
3. FILTER DIAPHRAGM LOCATION (Lfd) SHALL BE AS SHOWN IN FIGURE 1.8 OF THE PA DEP EROSION CONTROL MANUAL.

A CONCRETE CRADLE FOR BASIN OR TRAP OUTLET BARREL

NO SCALE

ESC-XXX



FABRICATED STEEL RISER DETAIL

TYPE M WITH E&S RISER DETAIL

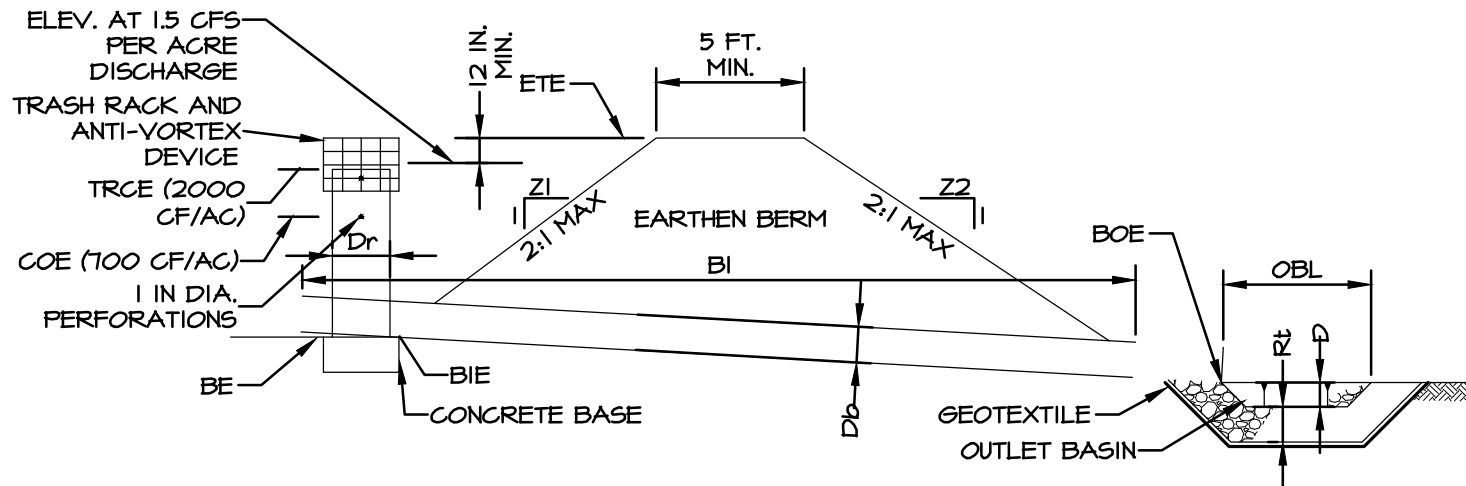
TRAP NO.	Z1 (FT)	Z2 (FT)	FABRICATED RISER			STORM SEWER INVERT ELEV. (SSE)	INLET CREST ELEV. (ICE)	EMBANK. TOP ELEV. (ETE)	BOTTOM ELEV. (BE)
			LENGTH L (FT)	STEEL RISER ELEV. (SRE)	PERF. COE (FT)				
1	3	3	2.00	345.50	345	342	345.50	347	343.50
2	3	3	2.00	304.50	303	301	304.50	306	302
3	3	3	2	360.75	367	364.00	360.75	370.50	366
4	3	3	1.75	365.75	365	362.75	365.75	367.50	364

NOTES:

1. FILL MATERIAL FOR THE BERM SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE BERM SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. ELEVATION ETE SHALL BE MINIMUM 24 IN. ABOVE INLET CREST ELEVATION (ICE).
2. UPON COMPLETION, THE BERM SHALL BE SEEDED, MULCHED, BLANKETED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.
3. ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.
4. A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.
5. CHECK BERMS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED INLETS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS.
6. REMOVE ACCUMULATED SEDIMENT AND STABILIZE DISTURBED AREAS INSIDE THE TRAP BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY.

B TYPE M INLET SEDIMENT TRAP

NO SCALE



TRAP NO.	CONCRETE BASE			OUTLET BASIN			
	LENGTH CBL (IN)	WIDTH CBL (IN)	THICK CBL (IN)	RIPRAP SIZE (R-)	ROCK THICK RT (IN)	DEPTH D (IN)	LENGTH OBL (FT)
6	30	30	24	3	4	0	12.13

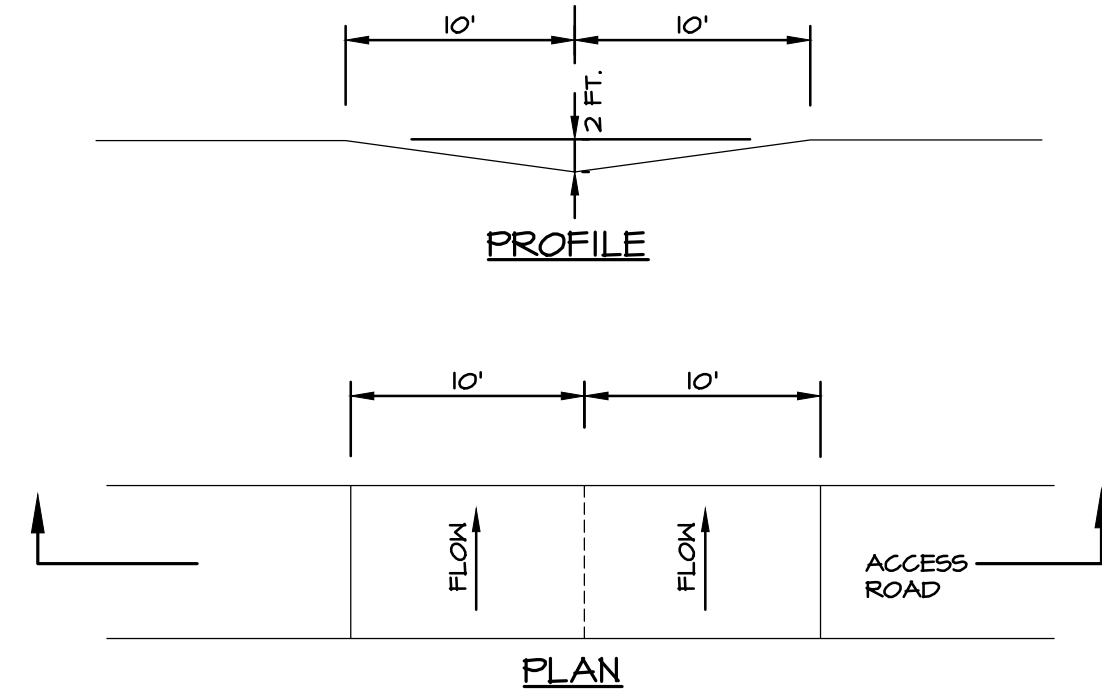
TRAP NO.	Z1 (FT)	Z2 (FT)	RISER			BARREL		EMBANKMENT		CLEAN OUT ELEV COE (FT)	BOTTOM ELEV BE (FT)
			MATL	DIA D (IN)	CREST ELEV RCE (FT)	BOT PERF ELEV (FT)	INLET ELEV BIE (FT)	LENGTH BI (FT)	OUTLET ELEV BOE (FT)		
6	3	3	CMP	21	372.00	371.00	370.00	56	364.72	18	374.00

NOTES:

1. SEE TEMPORARY RISER FOR DETAILS OF THE TEMPORARY RISER CONSTRUCTION.
2. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS.
3. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS.
4. ALL SEDIMENT TRAPS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT.
5. ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.
6. A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH TRAP. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE TRAP IN THE MANNER DESCRIBED IN THE E&S PLAN.
7. CHECK EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. CLOGGED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS.
8. DISPLACED RIPRAP WITHIN THE OUTLET PROTECTION SHALL BE REPLACED IMMEDIATELY.
9. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS INSIDE THE TRAP SHALL BE STABILIZED BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. TO ASSIST IN REMOVING SEDIMENT, WHICH MAY BE SATURATED, A DEVICE SUCH AS IS SHOWN IN STANDARD CONSTRUCTION DETAIL ON SEDIMENT STORAGE DEWATERING FACILITY MAY BE USED TO DEWATER THE SEDIMENT PRIOR TO ITS REMOVAL.

C BARREL/RISER SEDIMENT TRAP

NO SCALE

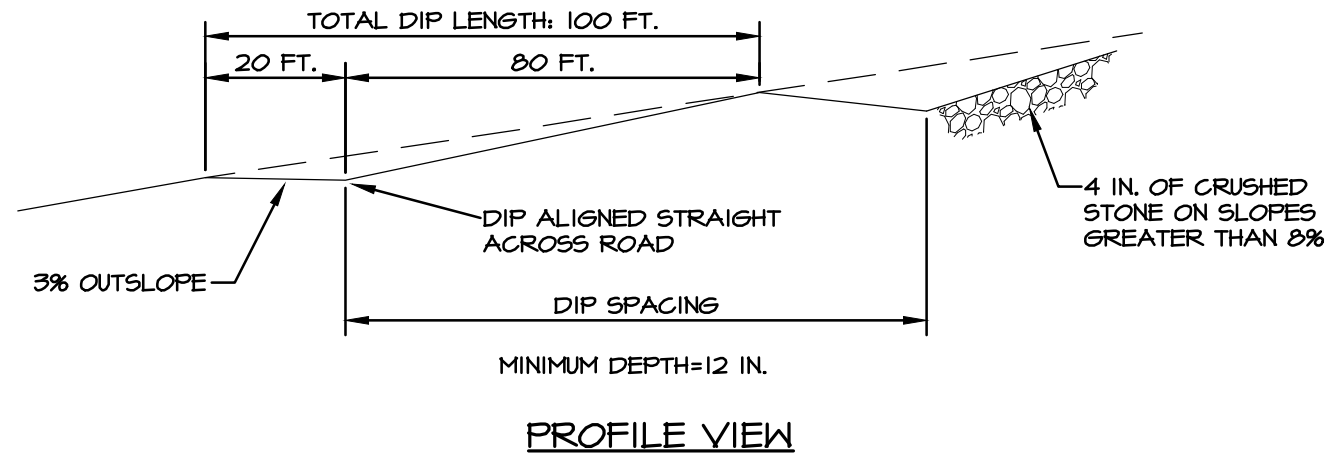


NOTES:

1. BROAD-BASED DIPS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN AND AT THE LOCATIONS SHOWN ON THE PLAN DRAWINGS.
2. DIPS SHALL BE ORIENTED SO AS TO DISCHARGE TO THE LOW SIDE OF THE ROADWAY.
3. DIPS SHALL BE INSPECTED DAILY. DAMAGED OR NON-FUNCTIONING DIPS SHALL BE REPAIRED BY THE END OF THE WORKDAY.
4. MAXIMUM SPACING OF BROAD-BASED DIPS SHALL BE AS SHOWN IN TABLE 3.2 OF THE PA DEP EROSION CONTROL MANUAL.

E BROAD BASED DIP - LOW GRADIENT (< 5 %) ROADWAYS

NO SCALE



PROFILE VIEW

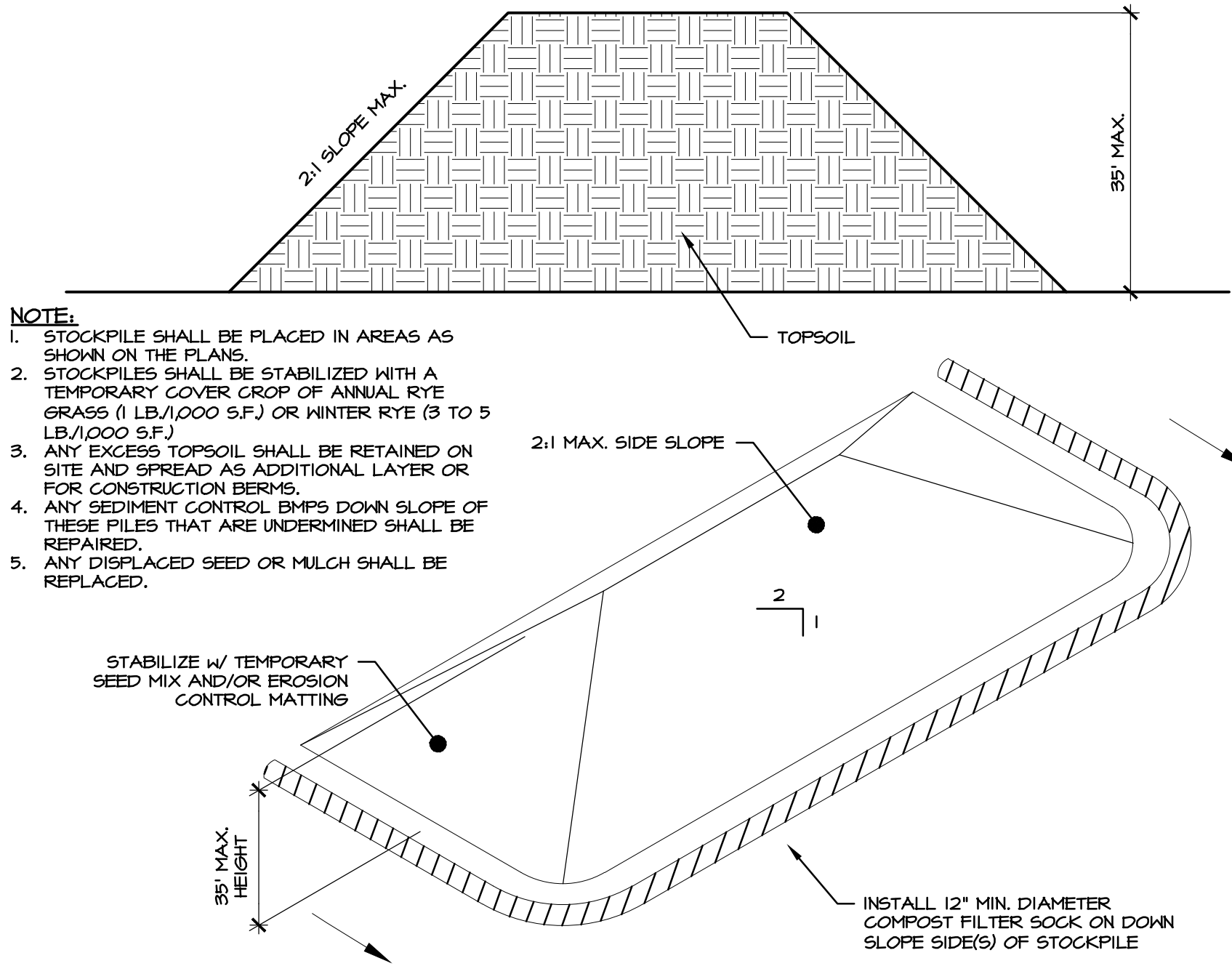
NOTES:

1. BROAD-BASED DIPS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN AND AT THE LOCATIONS SHOWN ON THE PLAN DRAWINGS.
2. DIPS SHALL BE ORIENTED SO AS TO DISCHARGE TO THE LOW SIDE OF THE ROADWAY.
3. DIPS SHALL BE INSPECTED DAILY. DAMAGED OR NON-FUNCTIONING DIPS SHALL BE REPAIRED BY THE END OF THE WORKDAY.
4. MAXIMUM SPACING OF BROAD-BASED DIPS SHALL BE AS SHOWN IN TABLE 3.2 OF THE PA DEP EROSION CONTROL MANUAL.

F BROAD BASED DIP FOR HIGH GRADIENT (5%-10%) ROADWAYS

NO SCALE

ESC-XXX

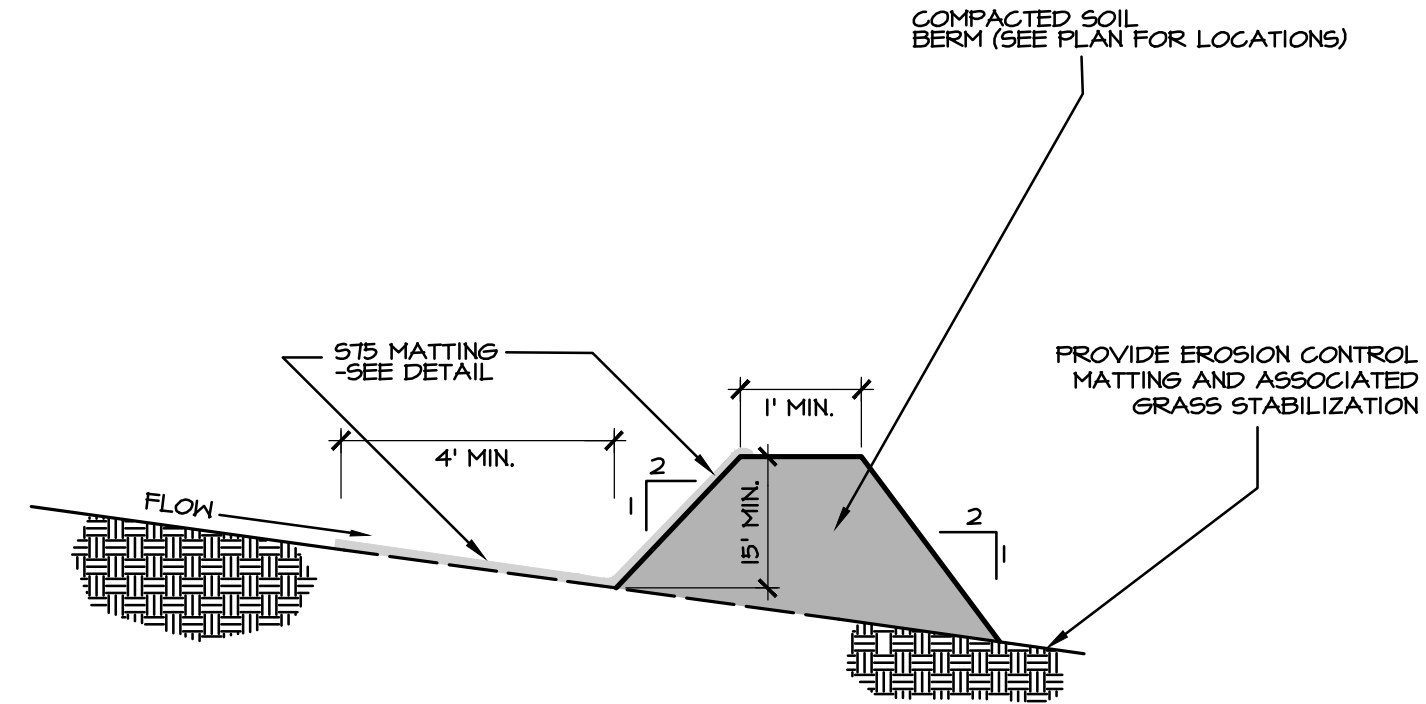


NOTE:

1. STOCKPILE SHALL BE PLACED IN AREAS AS SHOWN ON THE PLANS.
2. STOCKPILES SHALL BE STABILIZED WITH A TEMPORARY COVER CROP OF ANNUAL RYE GRASS (1 LB./1000 SF.) OR WINTER RYE (3 TO 5 LB./1000 SF.)
3. ANY EXCESS TOPSOIL SHALL BE RETAINED ON SITE AND SPREAD AS ADDITIONAL LAYER OR FOR CONSTRUCTION BERMS.
4. ANY SEDIMENT CONTROL BMPS DOWN SLOPE OF THESE PILES THAT ARE UNDERMINED SHALL BE REPAIRED.
5. ANY DISPLACED SEED OR MULCH SHALL BE REPLACED.

G SOIL STOCKPILE

NOT TO SCALE



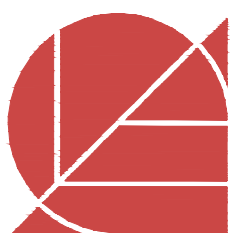
NOTES:

1. THE BERM AND ANY CHANNEL (INCLUDING GRADING DIRECTING FLOW ALONG THE BERM) SHALL BE SEEDED IMMEDIATELY WITH A TEMPORARY GRASS MIX. REFER TO DETAIL FOR TEMPORARY SEEDING SPECIFICATIONS.
2. PROVIDE STONE FILTER OUTLET AS PER APPROVED PLANS AND AT ANY POINT WHERE FIELD CONDITIONS WARRANT SUCH AS CONCENTRATED FLOWS OR AREAS OF EROSION.

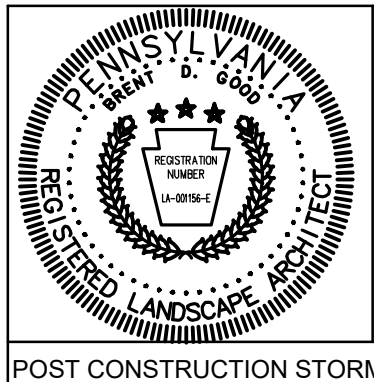
H TOP SOIL DIVERSION BERM DETAIL

NO SCALE

REVISIONS PER:	DATE:	BY:
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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

FINAL PHASE 1 PLAN

SUBJECT:
ESC DETAILS

FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	1" = XX'

DRAWING NO.

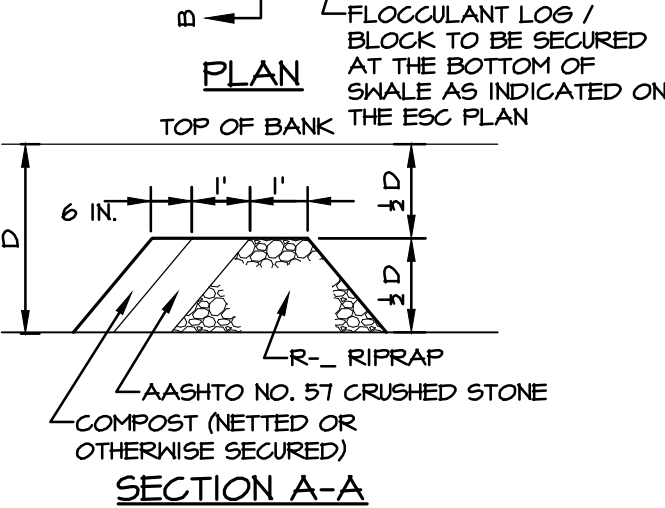
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NOTES:

1. A MINIMUM OF 2-20 REBAR SHALL BE PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBAR SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.
2. CONCRETE BASE SHALL BE POURED IN SUCH A MANNER SO AS TO INSURE THAT CONCRETE FILLS BOTTOM OF RISER TO INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE. MINIMUM BASE WIDTH EQUALS 2 TIMES RISER DIAMETER.
3. EMBEDDED SECTION OF ALUMINUM OR ALUMINIZED PIPE SHALL BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.
4. CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

(A) NO SCALE



NOTES:

1. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS.
2. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

(D) NO SCALE



1. SINGLE MITIGATION MEASURES SHOULD BE APPROVED BY A PA LICENSED GEOLOGIST OR ENGINEER PRIOR TO IMPLEMENTATION
2. EXAMPLE MITIGATION PRESENTED FOR SINKHOLES NOT NEAR SURFACE STRUCTURES AND/OR STRUCTURAL SUPPORT.
3. THICKNESS OF BACKFILL MATERIAL WILL VARY BASED ON SITE CONDITIONS. IT IS SUGGESTED THAT A PA LICENSED GEOLOGIST BE CONSULTED PRIOR TO MITIGATION

NO SCAL



NOTES:

ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

NO SCALE



- NOTES:
1. MAXIMUM DRAINAGE AREA = 1 ACRE.
 2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET SERVING TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
 3. ROLLED EARTHEN BERM SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBGRADE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT OF EARTH BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
 4. SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
 5. FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE.
 6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.
 7. FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
- | INLET NUM. | INLET LOCATI
ON PLAN |
|------------|-------------------------|
| 1-65 | ESC 9 |
| 1-49 | ESC 9 |
| 1-B09A | ESC 8 |

(H) NO SCALE



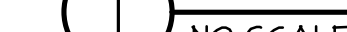
1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
2. RIPRAP APRONS SHOULD BE CONSTRUCTED AT OR NEAR ZERO GRADE FROM BACK TO FRONT AND SIDE TO SIDE. WHERE APRONS ARE CONSTRUCTED WITH A GRADIENT BACK TO FRONT, THE ROCK SIZE AND/OR APRON LENGTH SHOULD BE ADJUSTED UPWARDS TO COMPENSATE. IN NO CASE SHOULD RIPRAP APRONS BE CONSTRUCTED WITH A BACK TO FRONT GRADIENT EXCEEDING 5%.
3. INSTALL CLASS 2 GEOTEXTILE MATERIAL BETWEEN RIPRAP AND SUBGRADE.
4. USE THIS CONFIGURATION FOR ALL RIPRAP PLACEMENT AT OUTLET STRUCTURES UNLESS OTHERWISE NOTED.

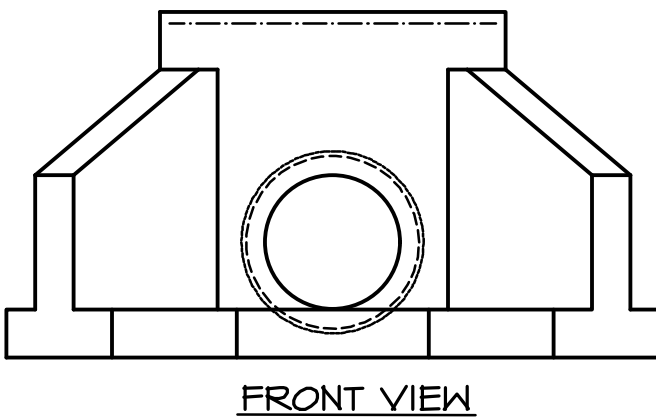
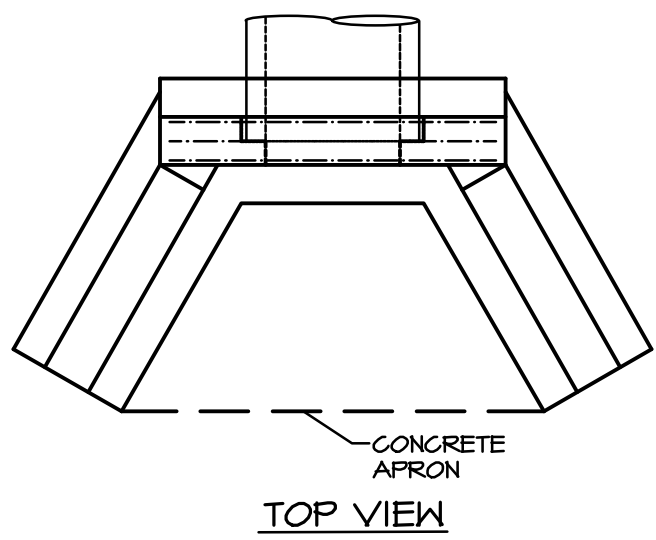
RIPRAP APRON INSPECTION SCHEDULE AND REPORTING

1. INSPECTION OF RIPRAP APRONS SHALL OCCUR AS FOLLOWS:
 - WEEKLY
 - AFTER EACH RUNOFF EVENT (THIS IS REQUIRED IN ADDITION TO THE REQUIRED WEEKLY INSPECTION)
2. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ANY REPAIRS MADE SHALL BE KEPT AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
 - (1) A SUMMARY OF SITE CONDITIONS, E45 BMP AND FCSM BMP, IMPLEMENTATION AND MAINTENANCE AND CONFORMANCE ACTIONS; AND
 - (2) THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.
3. FOR ADDITIONAL INSPECTION AND REPORTING REQUIREMENTS AND INFORMATION, SEE THE NPDES PERMIT CONDITIONS, EFFLUENT LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS, ITEM NO. 2.A (VISUAL INSPECTIONS) FOUND ON SHEET XXX.



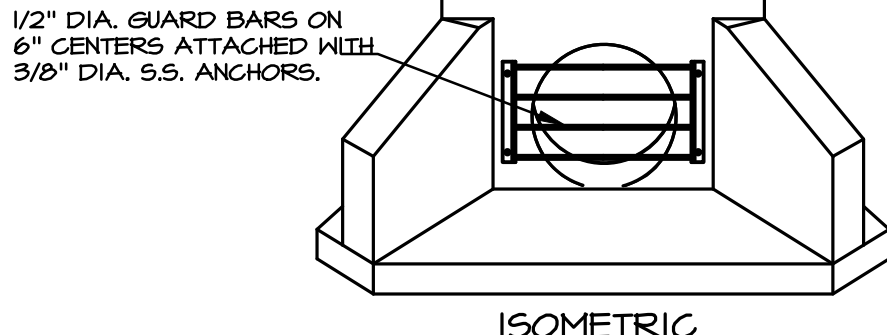
1. STRIP ALL SOFT OR UNSUITABLE MATERIALS EXTENDING HORIZONTALLY 5 FEET BEYOND THE PERIMETER OF THE EXISTING SINKHOLE TO A DEPTH OF COMPETENT BEDROCK OR TO 3 FEET BELOW THE SUBGRADE, WHICHEVER IS LESS.
2. FILL SINKHOLE WITH R-3 ROCK TO 12 INCHES BELOW THE LEVEL OF THE STRIPPED SURFACE. USE LARGER ROCK IF AVAILABLE. FILL VOIDS WITH REMAINING 12 INCHES WITH ASHTO #51 CRUSHED STONE AND 9 INCHES OF THE TYPE 'A' SAND AS SET OUT IN CONTACT TO AN UNYIELDING CONDITION.
3. FILL AREA WITH CONTROLLED MATERIAL TO PLAN SUBGRADE, AND REPLACE TOPSOIL.
4. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT TRAVERSE THE CORRECTED AREA.
5. THE MUNICIPALITY AND/OR MUNICIPALITY ENGINEER SHALL BE CONTACTED TO ANY SINKHOLE REPAIR.



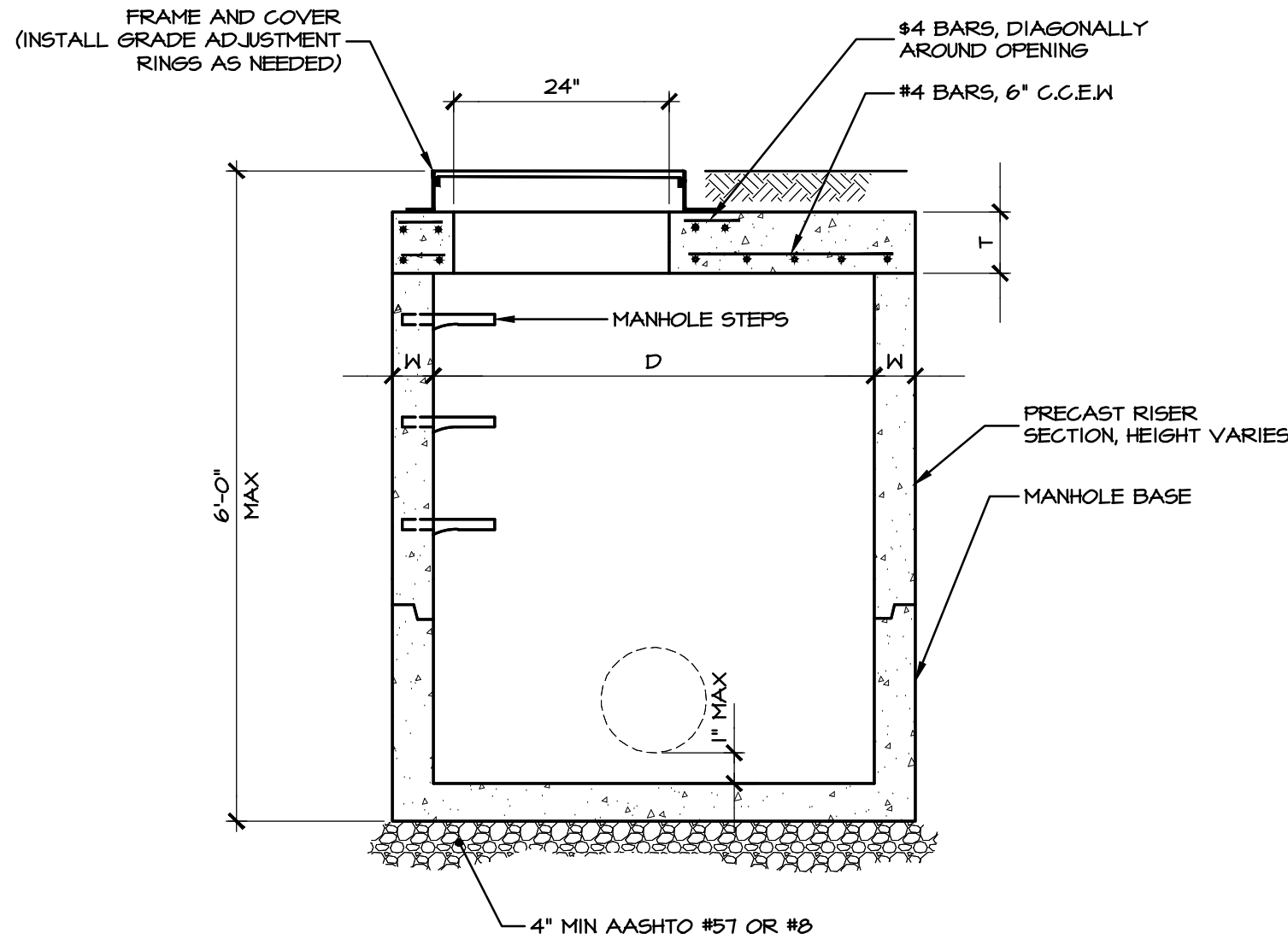


- NOTES:**
1. ALL ENDWALLS SHALL BE PRECAST IN ACCORDANCE WITH PADOT PUBLICATION 40B, SECTION T14, CLASS AA & IN ACCORDANCE WITH PADOT PUBLICATION T2, RC-31 STANDARD, AS AMENDED.
 2. ALL CONCRETE SHALL CONFORM TO PADOT PUBLICATION 40B, SECTION T04, CLASS AA.
 3. REINFORCING STEEL SHALL CONFORM TO PADOT PUBLICATION 40B, SECTION T04, AND PUBLICATION T2, RC-31 STANDARD.
 4. EXPOSED EDGES SHALL BE CHAMFERED 1".
 5. PROVIDE PIPE OPENING SIZE IN PRECAST UNITS TO ACCOMMODATE PIPE SIZE, MATERIAL AND ALIGNMENT.
 6. PROVIDE CONCRETE APRON UNLESS OTHERWISE SPECIFIED.
 7. GROUT OPENINGS AROUND PIPE CONNECTION TO THE STRUCTURE TO PROVIDE A WATERTIGHT JOINT AND CONNECTION USING A NON-SHRINK GROUT ON THE INSIDE AND OUTSIDE OF THE STRUCTURE.

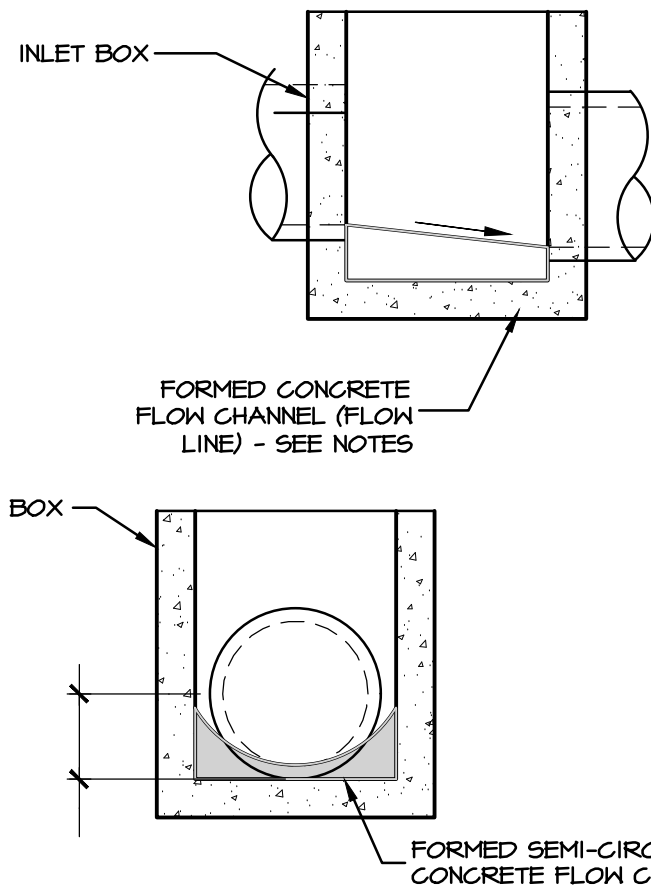
(TYPE 'DW' & 'D' ENDWALLS ONLY)



- NOTES:**
1. MATERIAL TO BE: GALVANIZED STEEL WRUST INHIBITOR OR STAINLESS STEEL.
 2. IF STEEL IS UTILIZED, THE UNIT SHALL BE FABRICATED, CLEANED AND THEN HOT DIP GALVANIZED AFTER FABRICATION.
 3. DIMENSION APPROPRIATELY FOR HEADWALL UTILIZED.
 4. TRASH RACK BASED ON MONARCH PRODUCTS, INC. TRASH RACK (717-498-1185).



D	W	T
4'-0"	5"	6"
5'-0"	6"	8"
6'-0"	7"	8"



- NOTES:**
1. FORMED FLOW CHANNEL TO HAVE SEMICIRCULAR GEOMETRY AND BE CONSTRUCTED TO PROVIDE SELF CLEANING OF INLET.
 2. CONTRACTOR SHALL PROVIDE A SMOOTH, UNIFORM ELEVATION CHANGE FROM THE INVERT IN TO THE INVERT OUT ALONG THE FLOW CHANNEL FOR ALL STRUCTURES, IN ACCORDANCE WITH THE ELEVATIONS AS IDENTIFIED ON THE STORM WATER PROFILES SHEETS.
 3. FLOW CHANNEL TO BE CONSTRUCTED WITH CONCRETE (3000 PSI) OR OTHER SUITABLE COUNTY APPROVED MATERIAL.
 4. ALL UNDERGROUND STORMWATER PIPING, OTHER THAN THOSE SPECIFICALLY INTENDED FOR GROUNDWATER COLLECTION, SHALL BE CONSTRUCTED WITH WATERTIGHT JOINTS AND CONNECTIONS

A PRECAST TYPE 'DW' ENDWALL

NO SCALE

B TRASH RACK DETAIL

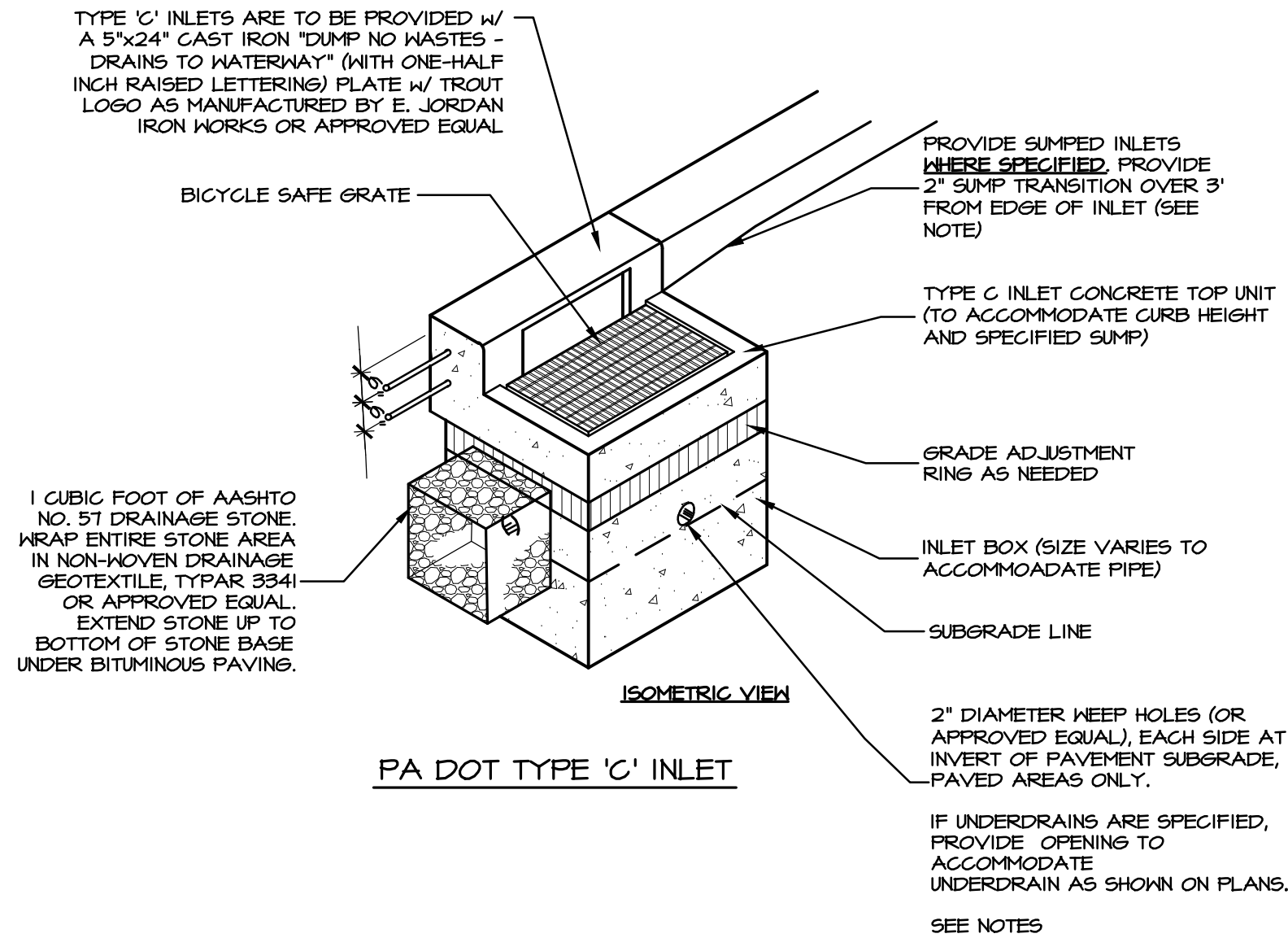
NO SCALE

C SHALLOW MANHOLE DETAIL - STORM SEWER

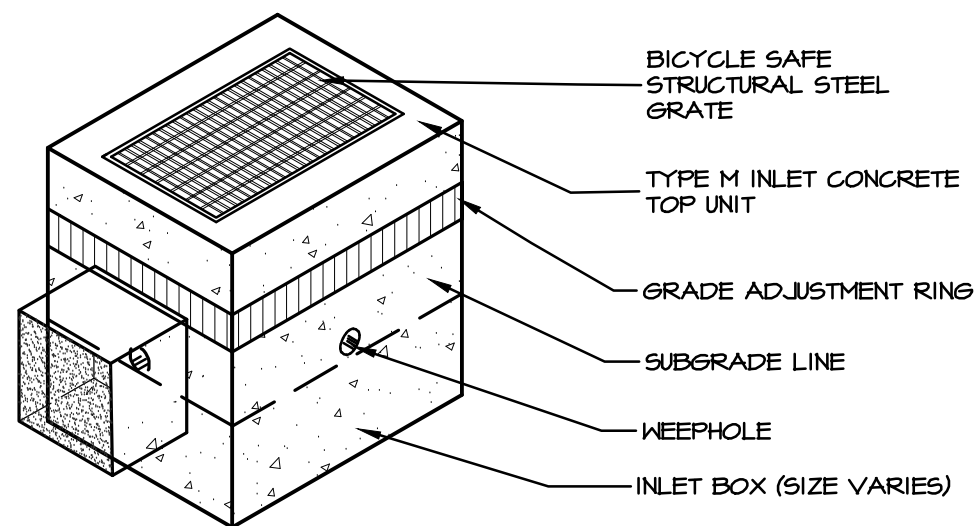
NO SCALE

D CATCH BASIN FLOW CHANNEL

NO SCALE



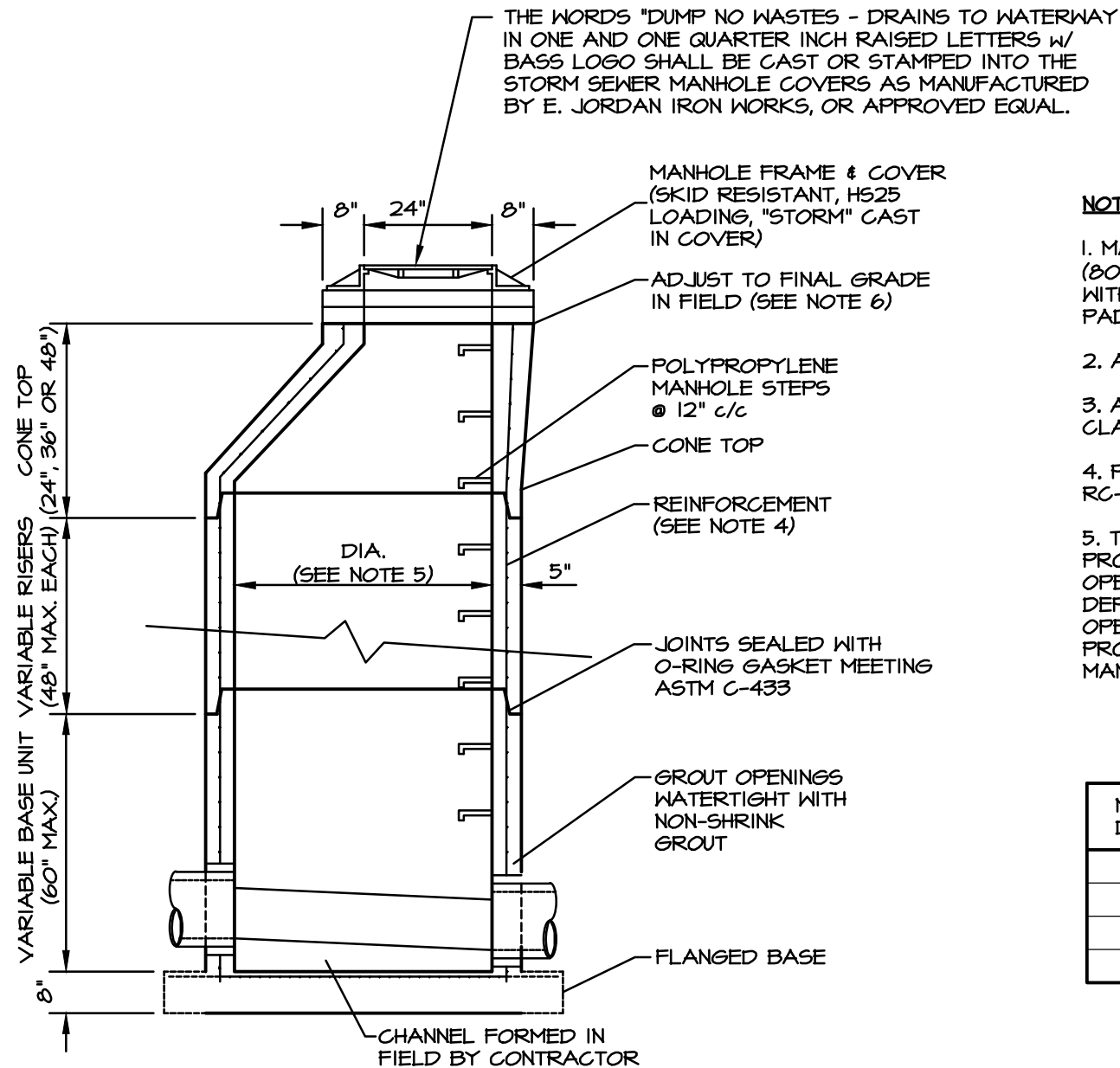
PA DOT TYPE 'C' INLET



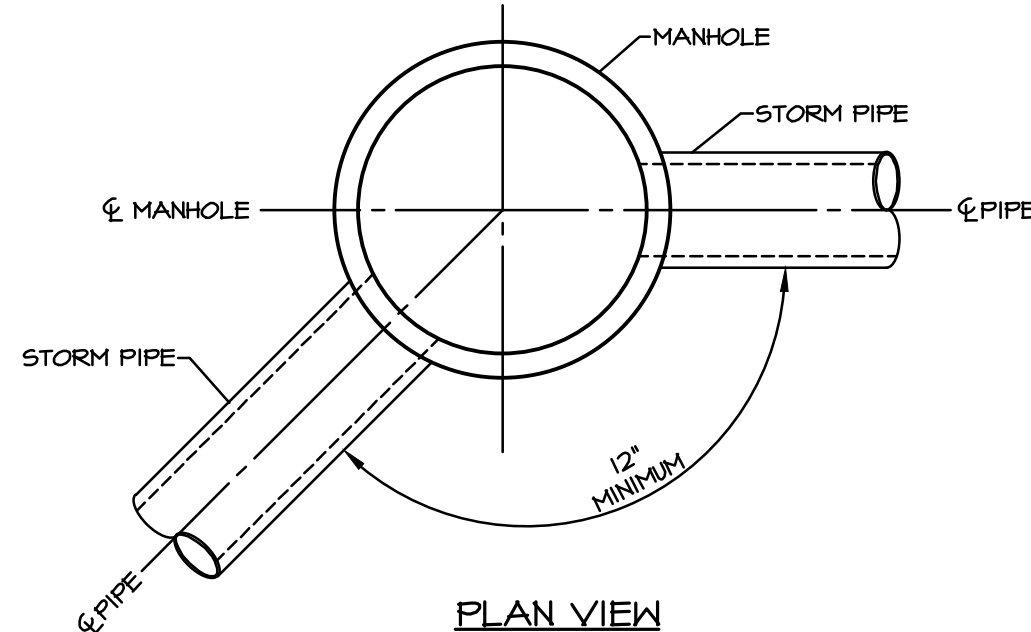
PA DOT TYPE 'M' INLET

INLET NOTES:

1. MATERIAL AND CONSTRUCTION BASED UPON PENNDOT STANDARDS AND SPECIFICATIONS. ALL CONSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH THE MOST UP TO DATE PA DOT PUBLICATION 40B, SECTION 605 & APPLICABLE PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION PERTAINING TO INLET STRUCTURES.
2. THIS DETAIL DEPICTS THE SHAPE AND DIMENSIONS REQUIRED FOR UNIFORMITY AND COMPATIBILITY. IT IS NOT INTENDED TO SHOW THE DETAILS REQUIRED FOR MANUFACTURING AND HANDLING. ONLY THOSE ITEMS WHICH ARE SUPPLIED BY AN APPROVED MANUFACTURER AS LISTED IN PA BULLETIN NO 15 WILL BE PERMITTED.
3. INLETS WITHIN THE PENNDOT RIGHT OF WAY SHALL BE IN ACCORDANCE WITH PENNDOT ROADWAY CONSTRUCTION STANDARDS, LATEST REVISION, AND AS PER APPROVED PENNDOT HIGHWAY OCCUPANCY PERMIT PLANS.
4. INLETS WITHIN A MUNICIPAL ROADWAY/RIGHT OF WAY SHALL BE APPROVED BY THE MUNICIPALITY PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES, MATERIAL AND ALIGNMENT PRIOR TO ORDERING PRE CAST STRUCTURES.
6. CONCRETE TOP UNITS WHICH SEAT THE GRATE DIRECTLY WITHIN THE UNIT SHALL UTILIZE 1-1/4" X 1-1/4" ANGLES EMBEDDED IN THE CONCRETE AS A BEARING AREA FOR THE GRATE.
7. THE SELECTION OF COMPONENTS TO ACHIEVE A SPECIFIED INLET TYPE IS THE CONTRACTOR'S RESPONSIBILITY.
8. PIPES SHALL BE LOCATED AS REQUIRED.
9. WEEP HOLES SHALL BE INSTALLED IN INLET BOXES WITHIN PAVED AREAS TO PERMIT DRAINAGE OF THE PAVEMENT SUBBASE, UNLESS OTHERWISE APPROVED.
10. USE PRE CAST CONCRETE GRADE ADJUSTMENT RINGS FOR FINAL GRADE. BRICKS, BLOCKS, MORTAR, ETC. ARE NOT PERMITTED AS GRADE ADJUSTMENTS.
11. INLET BOX SHALL BE PRE CAST CONCRETE, UNLESS OTHERWISE SPECIFIED OR APPROVED.
12. ALL ON-SITE INLETS SHALL HAVE TOP UNITS TO MATCH CURB REVEAL AND SPECIFIED SUMP.
13. INLETS THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED.
14. ALL DRAINAGE STRUCTURES SHALL HAVE POURED-IN-PLACE CONCRETE CHANNEL BOTTOM, UNLESS OTHERWISE NOTED (SUCH AS SNOOTS, WATER QUALITY INLETS, DESIGNATED SEDIMENT STORAGE, ETC.) ON THE PLANS.
15. CORNER ENTRY OF PIPES INTO INLETS IS PROHIBITED. THE INLET MANUFACTURER SHALL PROVIDE OVER SIZED BOXES AND/OR ELLIPTICAL OPENINGS AS NECESSARY TO ACCOMMODATE PIPE ENTRY ANGLES. SHOP DRAWINGS SHALL BE PROVIDED TO THE DESIGN ENGINEER AND TOWNSHIP ENGINEER PRIOR TO CASTING.
16. A 2' SUMP ON TYPE 'C' INLETS SHALL BE PROVIDED ONLY WHERE NOTED ON THE STORMWATER PIPE PROFILES. THE 2' SUMP TRANSITION ALONG CURB GUTTER LINE SHALL BE ADJUSTED ACCORDINGLY FOR FIELD CONDITIONS, ADA REQUIREMENTS, AND/OR AS SPECIFIED/DETAILED ON THE PLANS.
17. FINAL INLET TOP OF GRATE ELEVATION SHALL BE ADJUSTED TO ACCOUNT FOR SPECIFIED ROAD GRADE.
18. GROUT OPENINGS AROUND PIPE CONNECTIONS TO PROVIDE A WATERTIGHT JOINT. USE NON-SHRINK GROUT ON INSIDE & OUTSIDE OF STRUCTURE.
19. ALL JOINTS ADJACENT TO BITUMINOUS PAVING SHALL BE SEALED WITH P664-22.
20. PROVIDE 2'X6" INLET BOXES, DOUBLE 2'X4" BOXES, ETC. WHERE NOTED ON THE PLAN.
21. CONSULT THE PLANS FOR ANY SPECIFIC SUMP REQUIREMENTS.
22. CONCRETE INLETS WITHIN PUBLIC ROADWAYS, SHALL INCORPORATE GRADE RINGS TO BRING THE GRATE OR COVER TO PROPER ELEVATION. GRADE RINGS SHALL BE SET ON A NON-SHRINK GROUT PAD TO PROVIDE FULL BEARING ON THE SUPPORTING SURFACE. PROVIDE NON-SHRINK GROUT AS SPECIFIED IN PADOT PUBLICATION 40B, SECTION 1001.2(D). MAXIMUM GROUT DEPTH = 1/2".



SECTION VIEW



PLAN VIEW

NOTES:

1. MANHOLE BASED UPON TERRE HILL CONCRETE PRODUCTS, TERRE HILL, PA (800-242-1504). USE ONLY PADOT MANHOLES CONSTRUCTED IN ACCORDANCE WITH PADOT PUBLICATION T2, RC-34 STANDARD, WHERE PERFORMING WORK IN PADOT RIGHTS-OF-WAY.
 2. ALL PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM-C478.
 3. ALL CONCRETE SHALL CONFORM TO PADOT PUBLICATION 40B, SECTION T14, CLASS AA.
 4. PROVIDE REINFORCEMENT IN ACCORDANCE WITH PADOT PUBLICATION T2, RC-34 STANDARD.
 5. THE DIAMETER OF THE MANHOLES PROVIDED SHALL BE BASED UPON PROVIDING A MINIMUM OF 12-INCHES OF HORIZONTAL SEPARATION BETWEEN OPENINGS LOCATED AT THE SAME DEPTH. PIPES NOT LOCATED AT THE SAME DEPTH MUST BE LOCATED VERTICALLY AT LEAST ONE TIMES THE MAXIMUM OPENING DIAMETER APART WHERE THE HORIZONTAL SEPARATION IS NOT PROVIDED. IN ALL CASES, THE MAXIMUM PIPE SIZE AND OPENING IN PRECAST MANHOLES SHALL BE AS FOLLOWS:
- | MANHOLE DIA. | MAXIMUM PIPE SIZE | MAXIMUM OPENING |
|--------------|-------------------|-----------------|
| 4'-0" | 30" | 38" |
| 5'-0" | 42" | 50" |
| 6'-0" | 54" | 62" |
| 8'-0" | 72" | 80" |
6. ADJUST MANHOLE TO FINAL GRADE WITH PRECAST CONCRETE GRADING RINGS. MAXIMUM ADJUSTMENT IS 12-INCHES.
 7. PROVIDE GRADE ADJUSTMENT RISERS OF ADJUSTABLE INSERTS IN ACCORDANCE WITH PADOT PUBLICATION T2, RC-34 STANDARD. LOCATE TOP OF FRAME OF ADJUSTMENT RISER 1/8" BELOW THE TOP OF THE ROADWAY SURFACE.
 8. FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE ATTACHED RIGIDLY TO THE TOP OF THE MANHOLE WITH THREADED STUDS IN ACCORDANCE WITH PADOT PUBLICATION T2, RC-34 STANDARD. THE BASE OF THE FRAME AND/OR PRECAST CONCRETE GRADE RINGS TO BE SET IN A BED OF CEMENT MORTAR.
 9. SEAL ALL JOINTS BETWEEN MANHOLE SECTIONS WITH "RAMNEK" OR EQUAL SEALANT.
 10. CONTRACTOR SHALL VERIFY MANHOLE SIZING BASED ON PIPE SIZES, MATERIAL, AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
 11. THIS STANDARD DEPICTS THE SHAPE AND DIMENSIONS REQUIRED FOR UNIFORMITY AND COMPATIBILITY. IT IS NOT INTENDED TO SHOW THE DETAILS REQUIRED FOR MANUFACTURING AND HANDLING. ONLY THOSE ITEMS WHICH ARE SUPPLIED BY AN APPROVED MANUFACTURER AS LISTED IN PA BULLETIN NO. 15 WILL BE PERMITTED.

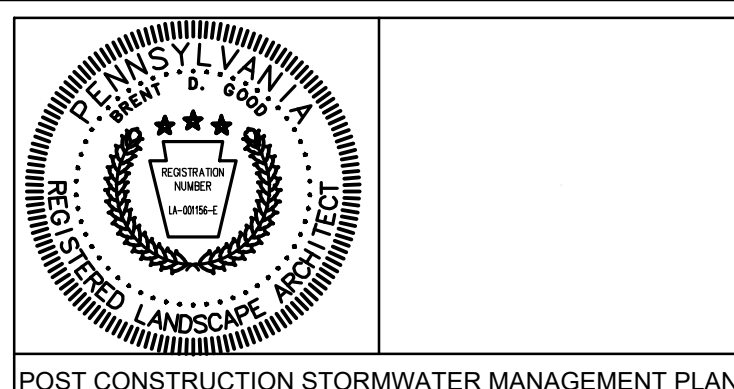
E PA DOT TYPE STORMWATER INLETS (TYPE 'C' & 'M')

NO SCALE

F PRECAST STORM SEWER MANHOLE

NO SCALE

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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

FINAL PHASE 1 PLAN	
SUBJECT: STORMWATER DETAILS	
FOR WESTMOUNT	
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA	
CLIENT: VISTABLOCK, LLC	
150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775	

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.:	1212-004
CAD DESIGNER:	TRS	SCALE:	AS NOTED

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SECTION

6"

INSIDE FACE OF STRUCTURE

SECTION A-A

1/2"Ø GRADE 60 DEFORMED STEEL REINFORCEMENT ROD

COPOLYMER POLYPROPYLENE COMPOUND TYPE II

PLAN

15 7/16"

14"

FRONT VIEW

SIDE VIEW

4 3/8"

1 3/8"

NOTES:

1. ATTACH INSERTS MANUFACTURER'S AND SPECIFICATION.
2. DRIVE STEP INTO BOTH LEGS ARE SEATED.
3. STEP SHALL MEET ASTM C-418 AND STANDARDS WHEN INSTALLED.

ULTIMATE BYPASS AREA

304 STAINLESS STEEL FRAMING

FLEDSTORM PURE INLET FILTERS FOR ROUND OPENINGS

FLEDSTORM PURE WALL MOUNT INLET FILTERS FOR OPEN THREAT BUTTRESS

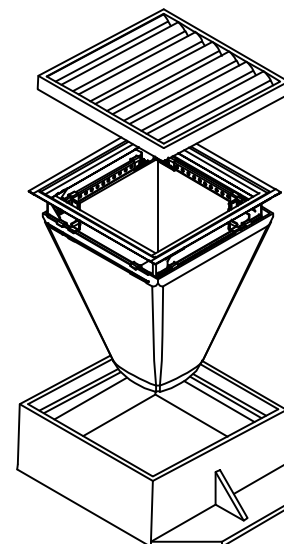
FOR OPEN THROAT CURB INLETS - MOUNTED TO WALL BENEATH CURB OPENING	
CURB OPENING SIZE	FLEXSTORM FRAME P/N
UP TO 4" CURB OPENINGS (1 FILTER)	62HDH-1
BETWEEN 4" AND 8" CURB OPENINGS (2 FILTERS)	62HDH-2
BETWEEN 8" AND 12" CURB OPENINGS (3 FILTERS)	62HDH-3
BETWEEN 12" AND 16" CURB OPENING (4 FILTERS)	62HDH-4

MINIMUM BYPASS FLOW RATES (CFPS)*	
BASED ON NOMINAL FRAME SIZE WITH MINIMUM 2" BYPASS FLOW GAP	
N	2.4
	3.5
	5.0
	7.2

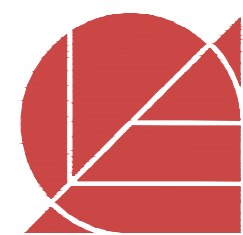
SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL BAG / FRAME SIZE							
NOMINAL BAG SIZE MATCHED TO FRAME	SOLIDS STORAGE (GAL)	FX (GPM)	FX (POST) (GPM)	FX (GPM)	% PG OIL RETENTION (%)	% PG OIL RETENTION (%)	% PG OIL RETENTION (%)
SMALL	1.6	1.3	0.8	0.4	74	85	84
MEDIUM	2.1	1.7	1.2	1.5	75	204	84
LARGE	3.6	2.9	2.1	1.4	75	262	84
XL	4.3	3.6	2.4	2.6	266	314	78
FILTRATION EFFICIENCY	82%	N/A	LARGE SCALE TEST PARTY TESTING PER ASTM D 788: USING 78 CONCENTRATION UNDER SANYO LAMP				
100 TON SUPERFUELED SOLIDS RESID	N/A	N/A	LARGE SCALE TESTING AT 40 GPM UNDER 150 PSI, OILY SAND AT 100 MG PER HEADS, 100 MG PER TAIL				
TOTAL NET (TYPICAL) HYDROCARBONS	N/A	N/A	LARGE SCALE TESTING AT 40 GPM WITH USED MOTOR OIL AT 240 MG PER HEADS, 100 MG PER TAIL				
PG FILT BAGS AT 30% MAX CAPACITY PG FILT BAGS AT 30% MAX CAPACITY AND HYDLYC GROMMET AT 100% CAPACITY							

1. ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL FOR 25 YEAR SERVICE LIFE RATING.
2. TOTAL BYPASS CAPACITY; BYPASS CAPACITY WILL VARY WITH EACH SIZE DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE.
3. UPON ORDERING CONFIRMATION OF THE DOT CANNOT, PRECAST OR CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED TO FLEXSTORM AND ASSEMBLY. YOUR CUSTOMIZED FLEXSTORM INLET FILTER. PART NUMBER ALONE IS NOT SUFFICIENT.
4. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

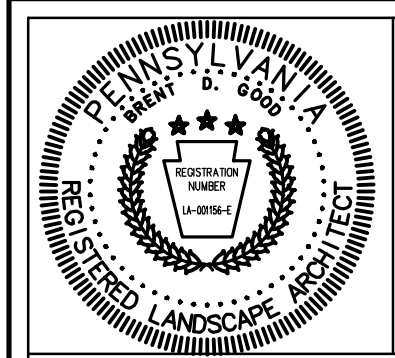
1. REMOVE GRATE.
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE.



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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

CAD DESIGNER:	TRS	SCALE:	AS NOTED
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DRAWING NO

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FOR EXISTING PAVEMENT RESTORATION WIDTH PER APPENDIX 17: TRENCH WIDTH PLUS 4' FOR THE NEARING COARSE & TRENCH WIDTH PLUS 2' FOR THE BASE COARSE

GRASS AREAS

PAVED AREAS

DIM. PER APPDX. 17

12" (RESTORATION ONLY)

SEAL EDGE

WAC-20 (RESTORATION ONLY)

PAVEMENT AS SPECIFIED

4" - 6" TOPSOIL W/ SEED

COMPACTED BACKFILL

STORM PIPE

PADOT NO. 2A STONE BACKFILL

12" MIN

AASHTO NO. 8 INITIAL BACKFILL

6" MIN

8" MIN

8" MIN

PIPE 24"

AASHTO NO. 8 PIPE BEDDING

The diagram consists of two parts. The top part shows a 3D perspective view of a square trench plug. The top face is labeled with a dimension of 24" and an 'X' indicating a variable. The side face is labeled 'COMPACTED CLAY OR CONCRETE'. A circular opening is visible on the front face. The bottom part shows a plan view of a trench. Two vertical rectangular sections represent the trench plugs, labeled 'TRENCH PLUGS'. The top and bottom lines of the trench are labeled 'TOP OF TRENCH' and 'TRENCH BOTTOM' respectively. The distance between the plugs is labeled 'TRENCH PLUS SPACING (50' OR AS SHOWN ON PLANS)'. Two horizontal pipes are shown passing through the trench, labeled 'PIPE' and 'PIPE BEDDING'.

NOTES

1. FILTRES GRO SOXX ARE TO BE PROVIDED WHERE SPECIFIED AS A PRE-TREATMENT DEVICE FOR VEGETATED BMP(S).
2. GRO SOXX SHALL BE PRE-SEEDED AND INSTALLED PER MANUFACTURER SPECIFICATIONS

The diagram shows a cross-section of a vegetated basin. On the left, a sloped line represents the 'BASIN SIDESLOTT' (sic). At the bottom of the basin, there is a horizontal line representing the 'BASIN BOTTOM'. A series of vertical lines with small circles at the top represent vegetation. A horizontal dimension line indicates a distance of '5'' from the left edge of the vegetation area to the center of the 'FILTRES GRO SOXX' device. The device is shown as a circular cross-section with a central vertical line. A label points to the top of the device: 'INSTALL 10" DIAMETER PRE-SEEDED FILTRES® GROSOXX™ W/ GROWING MEDIA™'. Another label points to the bottom of the device: '2"x2"x10" WOODEN STAKE @ 10'-0" o.c.'.

The diagram illustrates a cross-section of a channel or ditch. On the left, a 'LONGITUDINAL ANCHOR TRENCH' is shown, containing 'TOLERANT/EROSION RESISTANT VEGETATION'. A 'WATER' line indicates the water level. The channel bed is covered with a 'LINING'. A 'Z2' label is placed on the right side of the lining. The bottom of the channel is labeled 'B'. The entire system is labeled '(LOOKING DOWNSTREAM)'.

* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

ANNEAL CROSS-SECTION

OVERLAP 6 IN. MIN.

EXCAVATE CHANNEL TO DESIGN GRADE AND CROSS SECTION

SOIL BACKFILL

LONGITUDINAL ANCHOR TRENCH

DESIGN DEPTH

OVERCUT CHANNEL 2 IN. TO ALLOW BULKING DURING SEED BED PREPARATION

PREPARE SOIL AND APPLY SEED BEFORE INSTALLING BLANKETS, MATS, OR OTHER TEMPORARY CHANNEL LINER SYSTEM.

SHINGLE-LAP SPICED ENDS OR BEGIN NEW ROLL IN AN INTERMITTENT CHECK SLOT MIN. SHINGLE LAP=6 IN.

ISOMETRIC VIEW

INTERMITTENT CHECK SLOT

LONGITUDINAL ANCHOR TRENCH

CONTRIBUTING ROOF AREA (SF)	PIPE SLOPE	PVC PIPE SIZE (IN)
< 1,100	0.5%	4"
< 1,600	1%	4"
< 3,350	0.5%	6"
< 4,750	1%	6"
< 7,250	0.5%	8"
< 12,600	1.5%	8"

BITUMINOUS PAVING INSTALLATION

CONCRETE PAVING INSTALLATION

COVER TO BE "FLUSH" WITH CONC. COLLAR AND SHALL BE SECURELY FASTENED TO ASSEMBLY²³

6" MIN.

10 1/2" DIA.

6" MIN.

THREADER CLEAN OUT CAP

CIRCULAR CONCRETE COLLAR 3500 PSI (MIN) AT 28 DAYS

CONCRETE PAVING

SLOPE 1"

SEAL JOINT WITH PG 64-22

±12"

BITUMINOUS PAVING

EJ 3675 4" TALL ALLEN HEAD BOLTED CLEANOUT/MONUMENT BOX ASSEMBLY OR EQUAL²³

PROVIDE 3/8" E.J. W/ FILLER WHERE ADJACENT TO CONCRETE PAVING

1" CLEAR AROUND RISER PIPE

FINISHED GRADE (DIRECT AWAY BUILDING AT 2")

6" AASHTO #8 CRUSHED STONE AROUND RISER PIPE

SDR-35 P.V.C. RISER PIPE

BEND AS REQUIRED TO MAKE RISER VERTICAL

STORM SEWER PIPE (CONTRACTOR TO SIZE PIPE IN ACCORDANCE WITH THE SCHEDULE)

INTERMEDIATE CLEAN-OUT

NOTES:

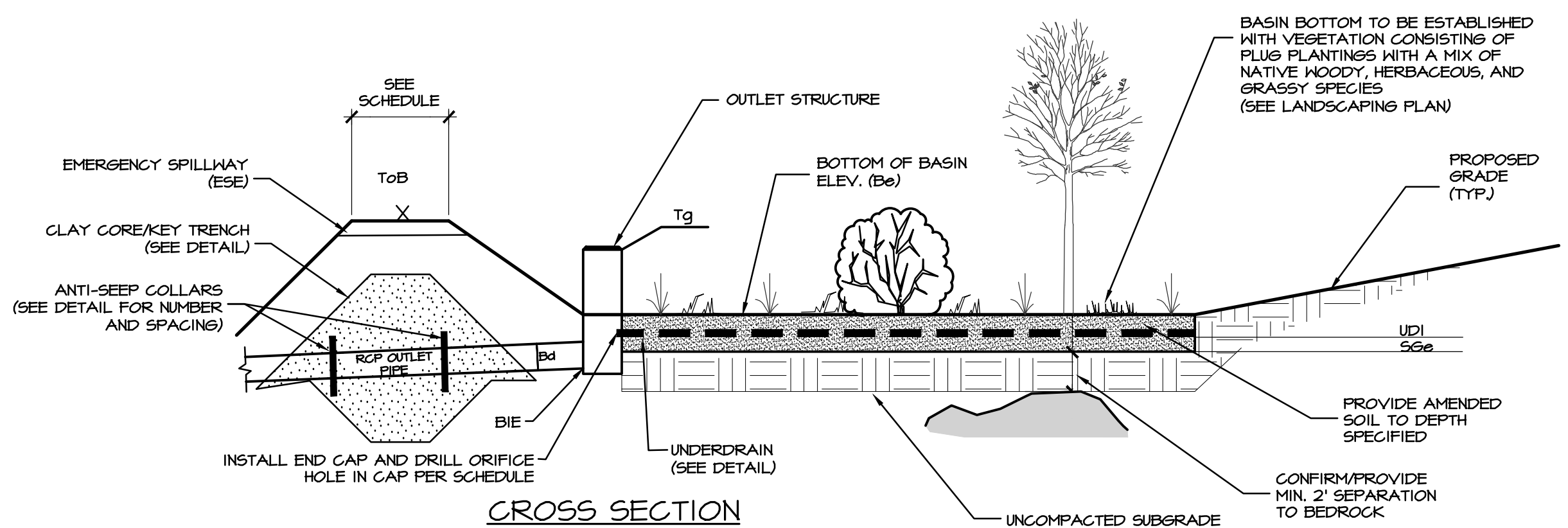
ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

(F) GRASS LINED CHANNEL
NO SCALE

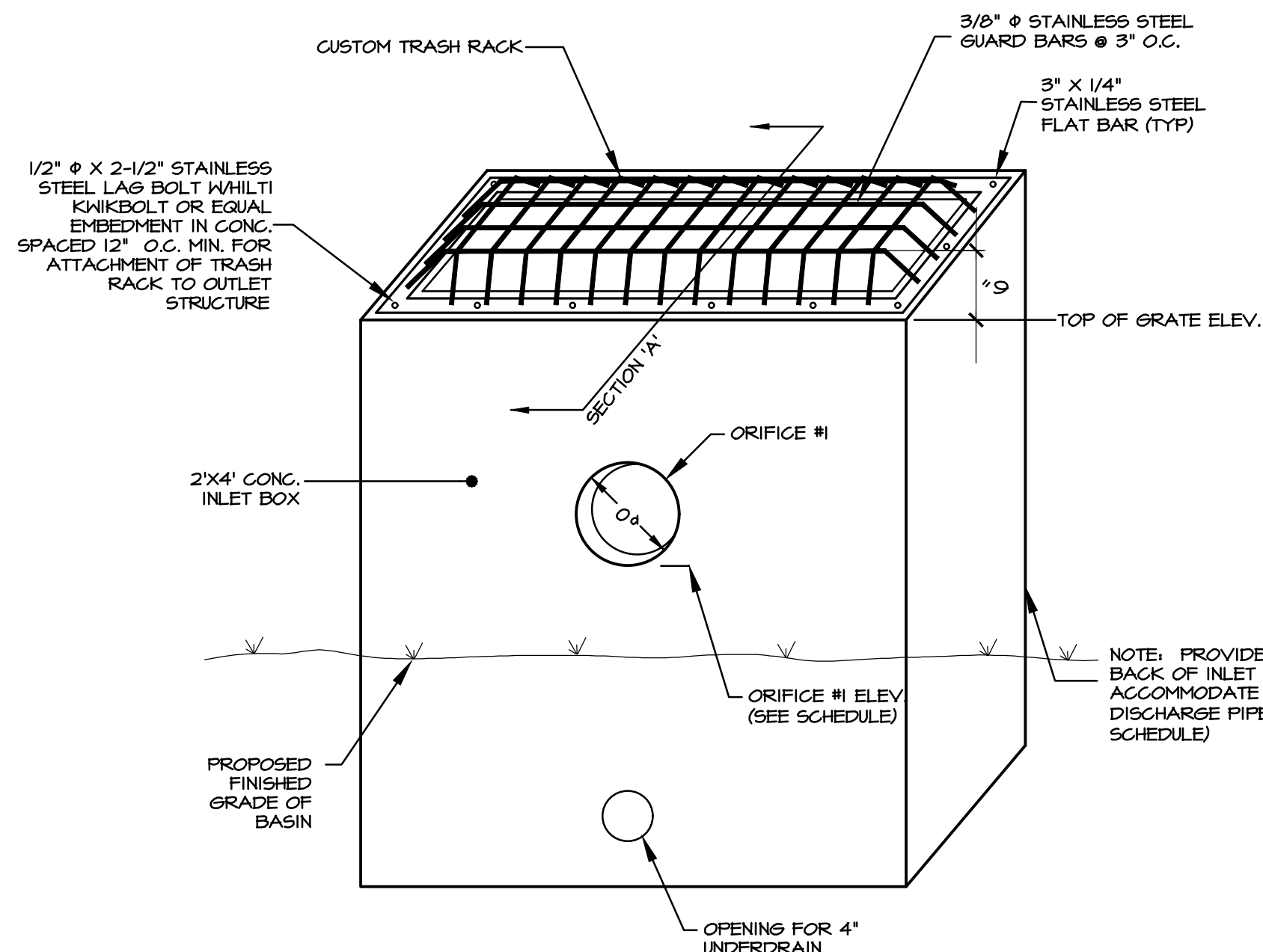
DRAWING NO.
58 of 79



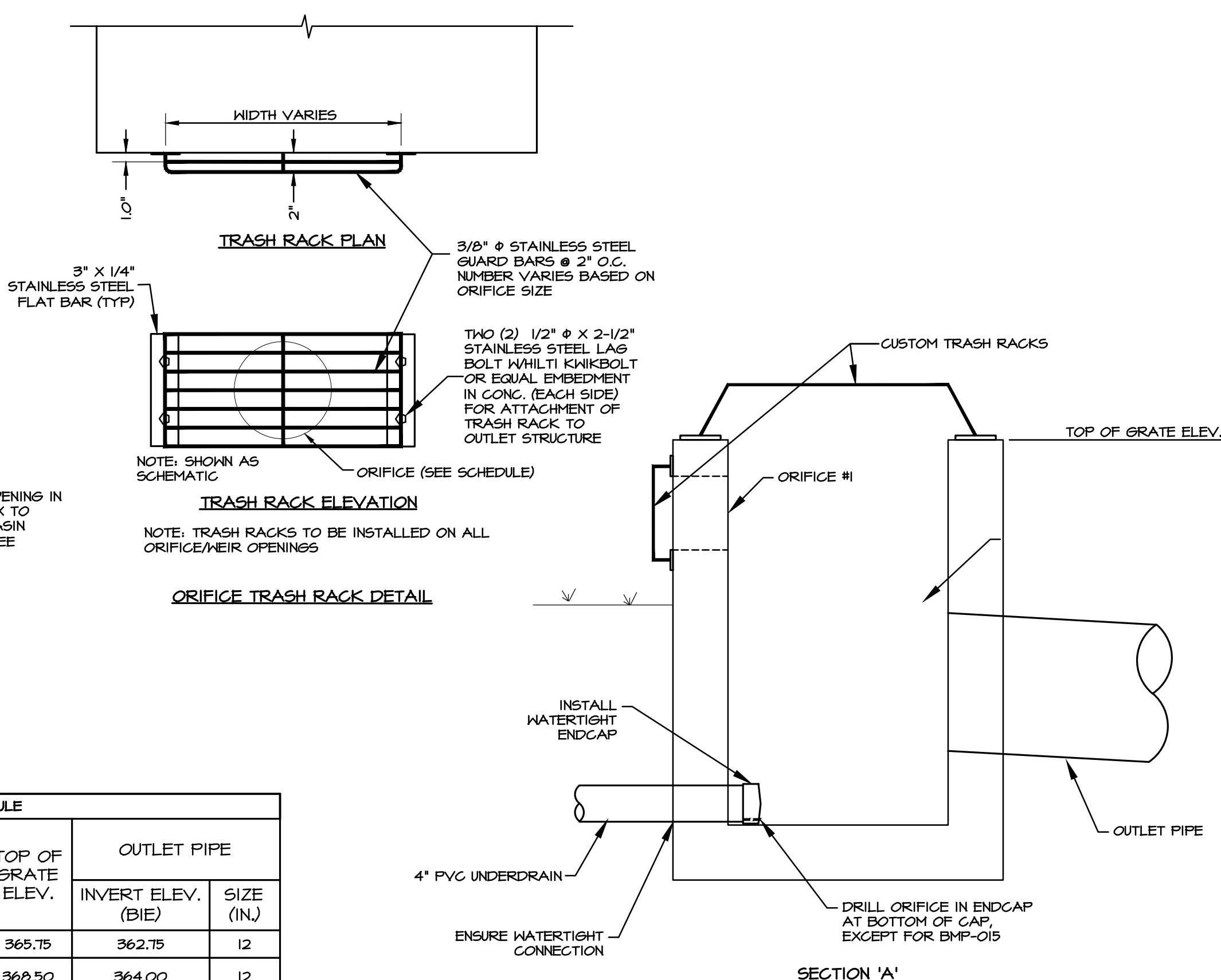
NOTE:

1. BASIN DISCHARGE PIPE TO BE PROVIDED WITH WATER TIGHT JOINTS. ALL CONNECTIONS TO STORM STRUCTURES SHALL BE WATER TIGHT. BACKFILL TRENCH WITH COMPACTED ONSITE MATERIAL.
2. STRIP AND REMOVE ALL TOPSOIL AND ORGANIC MATTER FROM THE SUBGRADE OF THE BASIN EMBANKMENT AREA.
3. EMBANKMENTS SHALL BE COMPACTED BY SHEEPSFOOT OR PADFOOT ROLLER. THE LOOSE LIFT THICKNESS SHALL BE NINE INCHES OR LESS, DEPENDING ON ROLLER SIZE AND THE MAXIMUM PARTICLE SIZE IS SIX INCHES OR LESS. 80% OF THE LIFT THICKNESS. FIVE PASSES OF THE COMPACTION EQUIPMENT OVER THE ENTIRE SURFACE OF EACH LIFT IS REQUIRED. EMBANKMENT COMPACTION TO VISIBLE NONMOVEMENT IS ALSO REQUIRED.
4. FINAL INTERIOR/EXTERIOR SIDE SLOPES SHALL NOT EXCEED A 3H:1V SLOPE. SEE APPROVED GRADING PLAN.
5. BOLD-RETENTION BASIN BOTTOMS SHALL BE PROBED FOR BEDROCK ON A 25 FOOT GRID. BEDROCK ENCOUNTERED WITHIN 2' OF THE SUBGRADE ELEVATION SHALL BE REMOVED TO A MINIMUM DEPTH OF 2' BELOW THE SUBGRADE ELEVATION AND BACKFILLED WITH AMENDED SOIL.

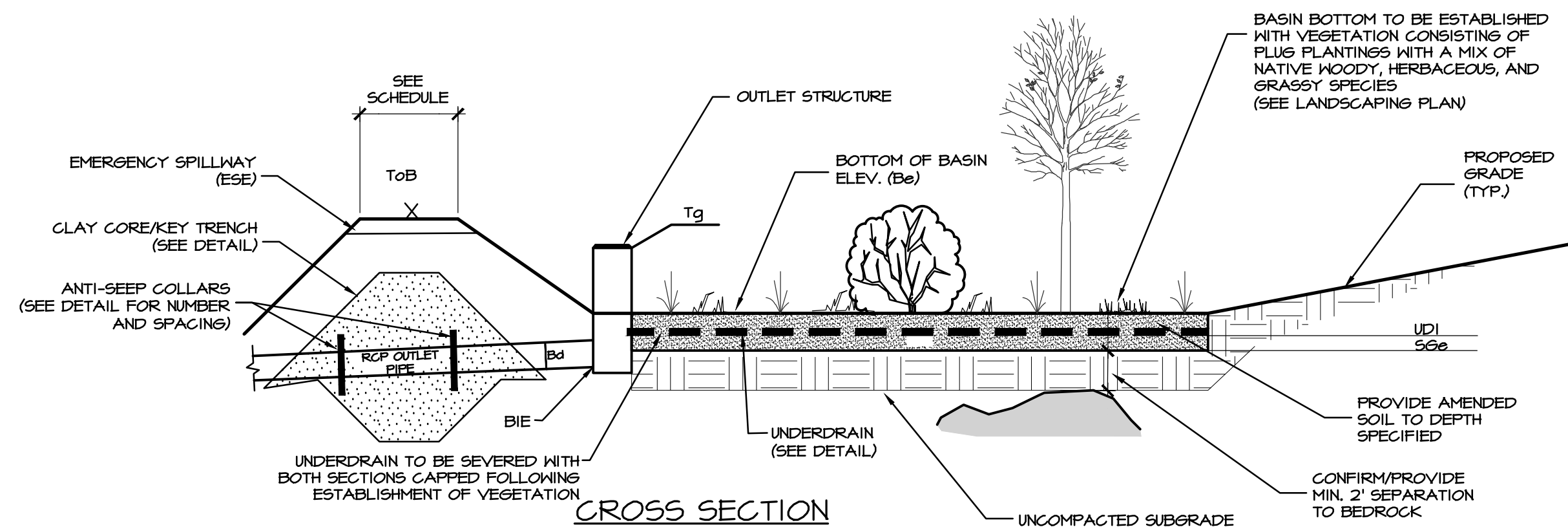
BIO-RETENTION BASIN DESIGN SCHEDULE											
BMP NO.	BOTTOM ELEV. (Be)	SUBGRADE ELEV. (Sse)	UNDERDRAIN INVERT (UDI)	UNDERDRAIN ORIFICE DIA. (IN)	TOP OF BERM (TOB)	BERM WIDTH (FT)	EMERGENCY SPILLWAY (ESE)	OUTLET STRUCTURE		OUTLET PIPE	
								TYPE	TOP OF GRATE (TG)	INVERT ELEV. (BIE)	SIZE (IN)
20	366.00	364.00	365.00	2.5"	370.50	8	369.25	2'x4' CONC. INLET	360.50	364.00	12
23	382.00	380.00	381.00	2"	386.00	5	385.00	2'x4' CONC. INLET	384.50	381.00	12



NOTE: SHOP DRAWINGS TO BE PROVIDED TO TOWNSHIP ENGINEER AND
DESIGN ENGINEER FOR APPROVAL.



(A) TYPICAL BIO-RETENTION BASIN CROSS-SECTION DETAIL
NO SCALE



NOTES:

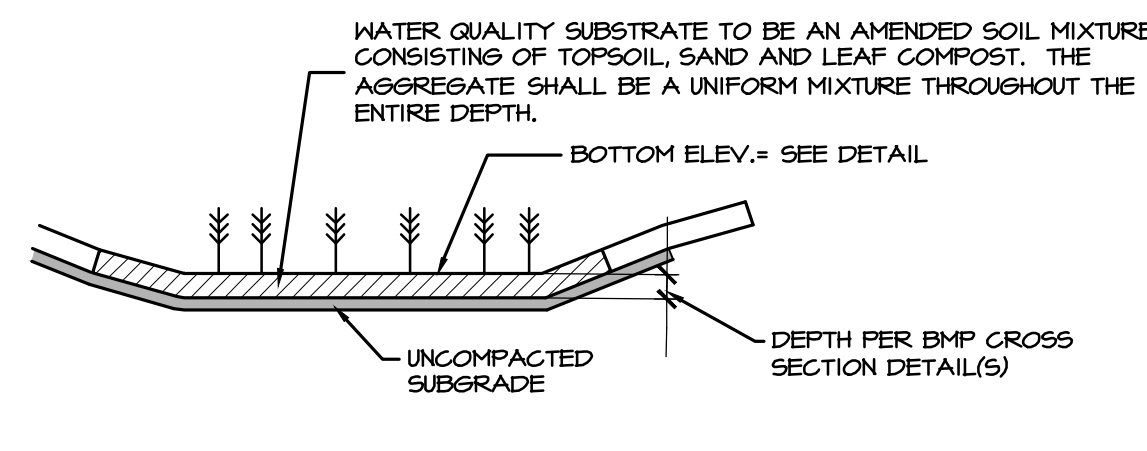
1. BASIN DISCHARGE PIPE TO BE PROVIDED WITH WATER TIGHT JOINTS. ALL CONNECTIONS TO STORM STRUCTURES SHALL BE WATER TIGHT. BACKFILL TRENCH WITH COMPACTED ONSITE MATERIAL.
2. STRIP AND REMOVE ALL TOPSOIL AND ORGANIC MATTER FROM THE SUBGRADE OF THE BASIN EMBANKMENT AREA.
3. EMBANKMENTS SHALL BE COMPACTED BY SHEEPSFOOT OR PADFOOT ROLLER. THE LOOSE LIFT THICKNESS SHALL BE 12 INCHES OR LESS. THE MAXIMUM LIFT SIZE AND THE MAXIMUM PARTICLE SIZE IS SIX INCHES OR LESS THAN 8% OF THE LIFT THICKNESS. FIVE PASSES OF THE COMPACTION EQUIPMENT OVER THE ENTIRE SURFACE OF EACH LIFT IS REQUIRED TO ACHIEVE THE REQUIRED COMPACTION. VISIBLE NONMOVEMENT IS ALSO REQUIRED.
4. FINAL INTERIOR/EXTERIOR SIDE SLOPES SHALL NOT EXCEED A 3:1 V/SLOPE. SEE APPROVED GRADING PLAN.

PERFORMANCE GUARANTEE:

1. SEE GRADING PLAN FOR SPECIFIC GRADING OF BASINS.
2. INFILTRATION BASIN BOTTOM SHALL BE ESTABLISHED WITH VEGETATION CONSISTING OF PLUG PLANTINGS, WITH A MIX OF NATIVE WOODY, HERBACEOUS, AND GRASSY SPECIES. SEE LANDSCAPING PLAN FOR SPECIES, QUANTITIES AND PLANTING DATES.
3. THE PROPOSED STORMWATER INFILTRATION SYSTEM AS SHOWN RELIES ON PERMEABLE SOIL CONDITIONS TO DEWATER AND FUNCTION PROPERLY. AS PART OF THE DESIGN PROCESS, GEOLOGIC, INFILTRATION, AND/OR SOIL TESTING WAS CONDUCTED BY A QUALIFIED PROFESSIONAL, SOIL SCIENTIST, OR LICENSED GEOLOGIST TO ASSURE THAT THE SOIL CONDITIONS AND PRE-CONSTRUCTION MUST BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION TO ASSURE THAT COMPACTION DOES NOT OCCUR WHICH WOULD COMPROMISE THE PERMEABILITY OF THE FLOOR OF THE INFILTRATION FACILITIES. IF AFTER INSTALLATION, THE INFILTRATION FACILITIES DO NOT FUNCTION AS DESIGNED, AND THE CAUSE IS DETERMINED, BY A QUALIFIED PROFESSIONAL, TO BE COMPACTION OF THE SOIL, THE CONTRACTOR SHALL RESTORE THE BASIN TO THE ORIGINAL PERMEABILITY REMEDIATION OUTLINED BY THE QUALIFIED PROFESSIONAL, TO RESTORE PRE-CONSTRUCTION PERMEABILITY.
4. THE PRESENCE/ABSENCE OF BEDROCK WITHIN 2 FEET OF THE BOTTOM OF THE BASIN SHALL BE VERIFIED WITH THE USE OF A HAND-PROBE HAVING AN APPROXIMATE DIAMETER OF $\frac{3}{4}$ " OR GREATER BY EXTENDING THE PROBE INTO THE BASIN TO A MINIMUM OF 2 FEET ON AN APPROXIMATELY 10-FOOT GRID PATTERN ACROSS THE BOTTOM OF THE BASIN.
5. IF BEDROCK OR OTHER UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, CONTRACTOR IS TO OVER-EXCAVATE TO A MINIMUM OF 2 FEET BELOW SUBGRADE AND BACKFILL WITH AMENDED SOILS.
6. PRE-CONSTRUCTION INFILTRATION TESTS BY THE CONTRACTOR TO DETERMINE PERMEABILITY OR DESIGN PROFESSIONAL TO CONFIRM ACCEPTABLE INFILTRATION RATES HAVE BEEN ACHIEVED.

INFILTRATION BASIN DESIGN SCHEDULE										
BMP NO.	BOTTOM ELEV. (Be)	SUBGRADE ELEV. (SGe)	UNDERDRAIN INVERT (UDI)	TOP OF BERM (ToB)	BERM WIDTH (FT)	EMERGENCY SPILLWAY (ESE)	OUTLET STRUCTURE		OUTLET PIPE	
							TYPE	TOP OF GRATE (TG)	INVERT ELEV. (BIE)	SIZE (IN.)
15	364.00	363.00	363.00	361.50	5	366.25	2'x4' CONC. INLET	365.75	362.75	12

C TYPICAL INFILTRATION BASIN CROSS-SECTION DETAIL
NO SCALE



AMENDED SOIL MIXTURE NOTES

1. WATER QUALITY SUBSTRATES AND ASSOCIATED SOILS SHALL BE SELECTED TO ENSURE CONVEYANCE AND PERMEABILITY (MIN. 1/4"HR, MAX 6"/HR) TO THE PROPOSED UNDERDRAIN OR SUBGRADE.
2. ALL SOILS TO BE UTILIZED IN THE AMENDED SOIL MIXTURE SHALL BE REQUIRED IN ALL INFILTRATION BMPs WHERE AMENDED SOILS ARE PROPOSED. A MINIMUM OF TWO TESTS PER BASIN SHALL BE PERFORMED TO UTILIZE THE PROPOSED SOILS AND TO BE DESCRIBED IN THE PADEP BMP MANUAL IN ORDER TO CONFIRM THAT ACCEPTABLE INFILTRATION RATES HAVE BEEN ACHIEVED.
3. GLAY SOILS OR OTHER COHESIVES THAT PREVENT INFILTRATION SHALL NOT BE TESTED.
4. ALL SOIL TO BE UTILIZED IN THE AMENDED SOIL MIXTURE SHALL BE TESTED AND VERIFIED TO CONTAIN A MAXIMUM OF 5% CLAY. CLAY IS DEFINED AS A FEELING OF SLIPPERY TO THE TESTING AGENCY TO ENSURE PROPER PERMEABILITY.
5. ALL SOILS SHALL BE TESTED AND VERIFIED NOT TO CONTAIN ANY CONTAMINANTS OR TOXIC SUBSTANCES THAT WOULD COMPROMISE THE INTENT OF WATER QUALITY.
6. THE LEAF BASED COMPOST SHALL BE PROVIDED WITH A MATERIAL CERTIFICATION FROM THE SUPPLIER FOR APPROVAL PRIOR TO INSTALLATION. ALL SOLIDS OR OTHER SUCH CONTAMINANTS ARE PERMITTED.

TYPICAL AMENDED SOIL MIXTURE

10%	FINE COMPOST
10%	MASONRY SAND
80%	TOPSOIL

FINE COMPOST FOR BMP SOIL:

75%	BY VOLUME RECYCLED PLANT WASTE
25%	MAX. OTHER APPROVED ORGANIC WASTE (NO POST-CONSUMER FOOD WASTE, MANURE OR BIO-SOLIDS)*

*SOIL SAMPLE MUST BE APPROVED BY DESIGN AND MUNICIPAL ENGINEERS PRIOR TO PLACEMENT. CONTRACTOR TO VERIFY NO POST CONSUMER FEED WASTE OR SOLIDS USED IN PREPARATION OF SOILS.

SOIL INSTALLATION & COMPACTION
NOTES FOR BMP:

1. CONTRACTOR TO SELECT EQUIPMENT TO MINIMIZE COMPACTION OF THE REQUIRED AMENDED SOILS WITHIN THE BMP AREA.
2. THE AMENDED SOIL MIXTURE SHALL BE FULLY AND PROPERLY BLENDED TO PROVIDE A UNIFORM HOMOGENEOUS MIXTURE.
3. THE REQUIRED AMENDED SOIL STRUCTURE TO BE LIFTED, PRESOAK LIFTS WITH LIGHT WATERING TO ENCOURAGE NATURAL COMPACTION OR IF CONSTRUCTION SCHEDULE PERMITS, ALLOW FOR NATURAL SETTLEMENT WITH THE HELP OF RAIN EVENT TO PRESOAK THE SOIL MEDIUM.
4. IF NATURAL SETTLEMENT IS ANTICIPATED, THE CONTRACTOR SHALL BACKFILL AN APPROPRIATE AMOUNT ABOVE THE SPECIFIED BMP BOTTOM INVERT TO ACCOUNT FOR SUCH.

TOPSOIL VERIFICATION

- I. ANY AND ALL TOPSOIL TO BE USED IN AMENDED SOIL MIXTURE SHALL UNDERGO APPROPRIATE LAB TESTING AS PRESCRIBED BY A QUALIFIED GEOTECHNICAL PROFESSIONAL IN ORDER TO DETERMINE THE SUITABILITY FOR USE IN THE ABOVE AMENDED SOIL BLEND MIX.

SEEDING NOTES AND RECOMMENDATIONS FOR BMP BASINS

1. TO PREVENT SEED MIGRATION IN RAIN EVENTS, HYDROSEEDING OR AN APPROVED METHOD SHALL BE EMPLOYED TO THE BASIN BOTTOM ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. SUCH HYDROSEEDING SHALL INCORPORATE AN APPROPRIATE MIXTURE OF SEED, MULCH, AND TACKIFIER COAGULANT TO WATER TO FORM A THICK SLURRY. THIS SLURRY IS APPLIED WITH PRESSURE TO PREPARE A SOIL SURFACE FOR BETTER SEED GERMINATION AND PLANT DEVELOPMENT, WHILE PREVENTING EROSION.
3. SUPPLEMENTAL WATERING MAY BE NECESSARY IF PLANTING IS COMPLETED DURING HOT WEATHER.
4. IN ANTICIPATED AREAS OF EROSION FROM STORMWATER INUNDATION, A JUTE MATTING OR EQUAL APPROVED EROSION CONTROL LINING SHALL BE INSTALLED ALONG THE BASIN BOTTOM TO PROTECT THE SOIL SURFACE AND ASSIST WITH PROPER GERMINATION OF THE BMP SEED MIX.
5. WHERE A PERMANENT LINING IS SPECIFIED WITHIN THE BMP SEEDINGS LIMITS, A THIN LAYER OF TOP SOIL SHALL BE APPLIED OVER THE PERMANENT LINING TO ALLOW FOR A SOFT SEEDING OF THE SEED MIX.

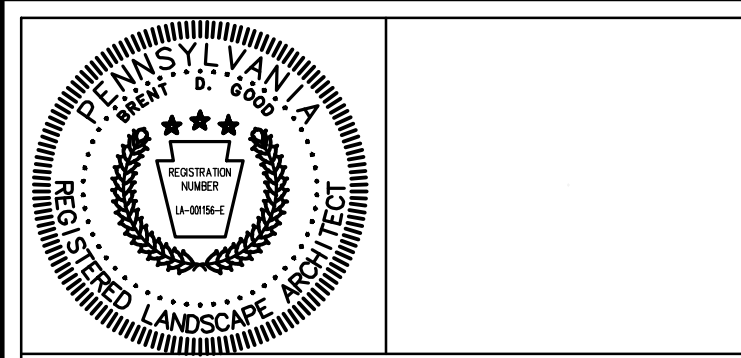
SEEDING SPECIFICATION

1. IT IS THE INTENT OF THE BIDDING TO ESTABLISH A MEADOW GRASS BOTTOM OF THE BMP BASIN(S). MEADOW BOTTOMS ARE NOT TO BE MOVED OTHER THAN RECOMMENDED SEEDING, RE-SEEDING AND ALL OTHER REQUIRED MAINTENANCE.
2. THE BASIN BOTTOMS, ONCE PLANTED, MUST BE MAINTAINED TO PERMANENTLY ESTABLISH THE REQUIRED VEGETATION. MAINTENANCE MAY INCLUDE WEEDING, MOWING, OVER SEEDING, RE-SEEDING AND ALL OTHER REQUIRED MAINTENANCE.
3. THE SEED MIXTURE TO BE USED IS THE FOLLOWING (OR APPROXIMATELY EQUAL) AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ASSOCIATED SITE CONDITIONS. IT IS RECOMMENDED THAT THE SEED BE BROADCAST.
4. THE CONTRACTOR IS TO PROVIDE ERNMX #127 SEED MIX FOR MEADOW BOTTOMS AT A RATE OF 15 LB/VAC WITH AN ADDITION OF 1 LB/VAC (OR 1 LB/1000 SQ FT) OF PANICUM GRASS. UNPAVED DRIVEWAYS SHALL BE TOPDRESSED WITH THE ERNMX-127, AS SPECIFIED BY ERNST SEED.

MAINTENANCE/ESTABLISHMENT

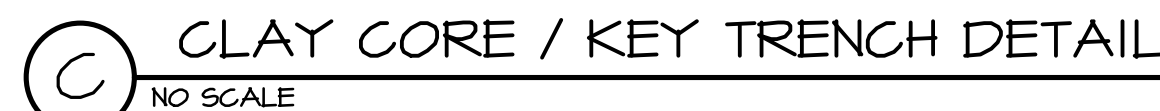
1. REGULAR MAINTENANCE OF THE FACILITY FOR THE FIRST 1-3 YEARS IS CRITICAL TO THE ESTABLISHMENT OF DESIRED SPECIES AND DENSE VEGETATION, WHICH IS CRITICAL IN MAINTAINING A WELL DRAINED SOIL, AND SHALL BE OVERSEEN BY A QUALIFIED LANDSCAPING PROFESSIONAL.
2. CRITICAL MAINTENANCE DURING THE ESTABLISHMENT PERIOD MAY INCLUDE WATERING, VECTOR CONTROL, ADDITIONAL SEEDING/RE-SEEDING, SEMI-ANNUAL MOWING, ETC.
3. AMENDED SOILS AND SEEDING SHOULD ONLY BE PERFORMED/PLANTED BY A QUALIFIED LANDSCAPING PROFESSIONAL. GERMINATION IS FEASIBLE (SPRING/EARLY FALL), AS DEEMED APPROPRIATE BY A QUALIFIED LANDSCAPING PROFESSIONAL.

REVISIONS PER:		DATE:	BY:
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2.	-	-	-
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4.	-	-	-
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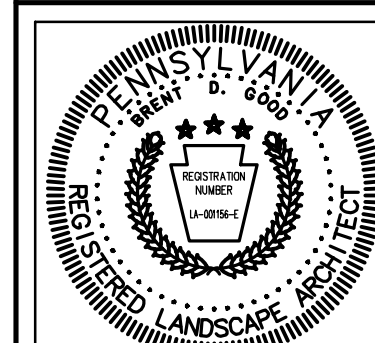
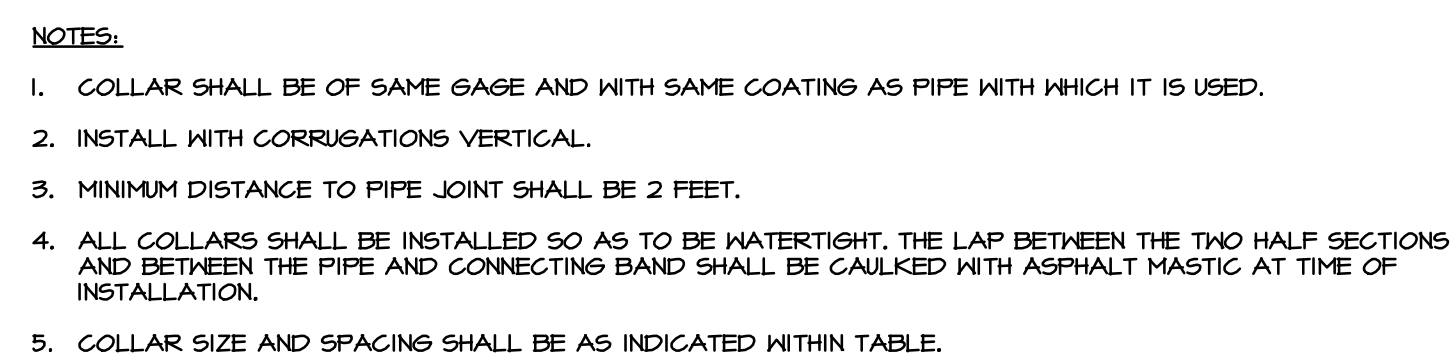
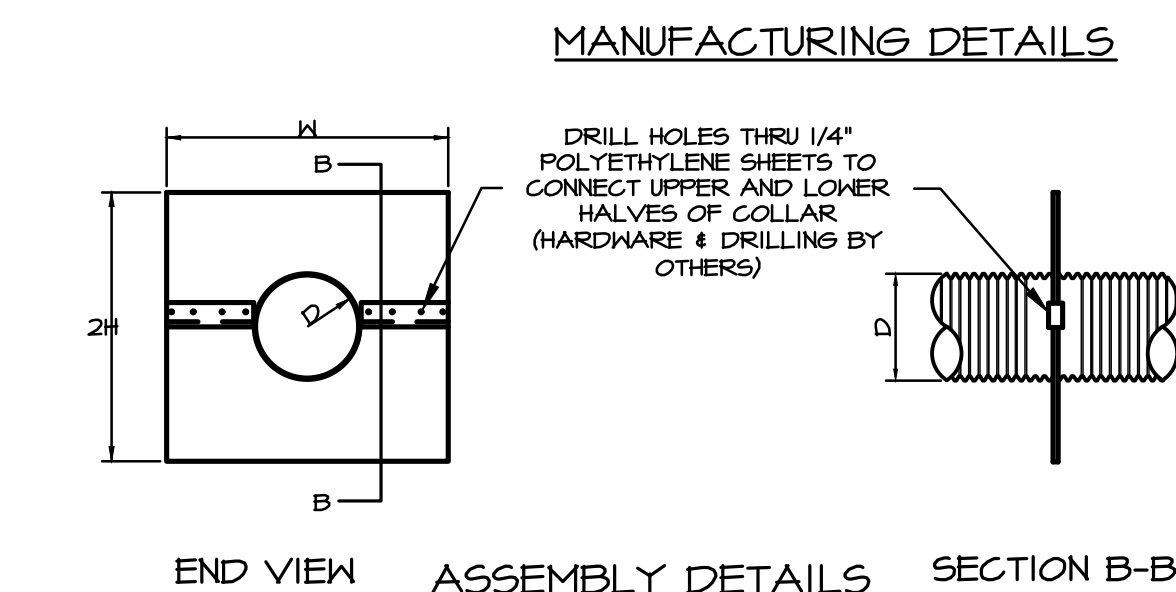
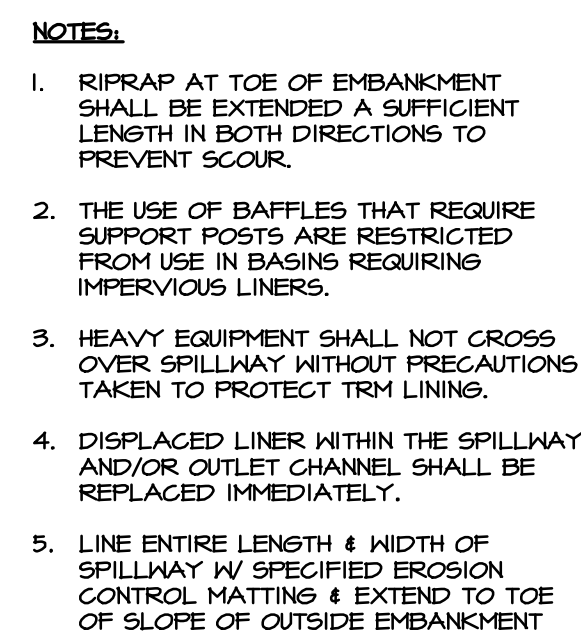
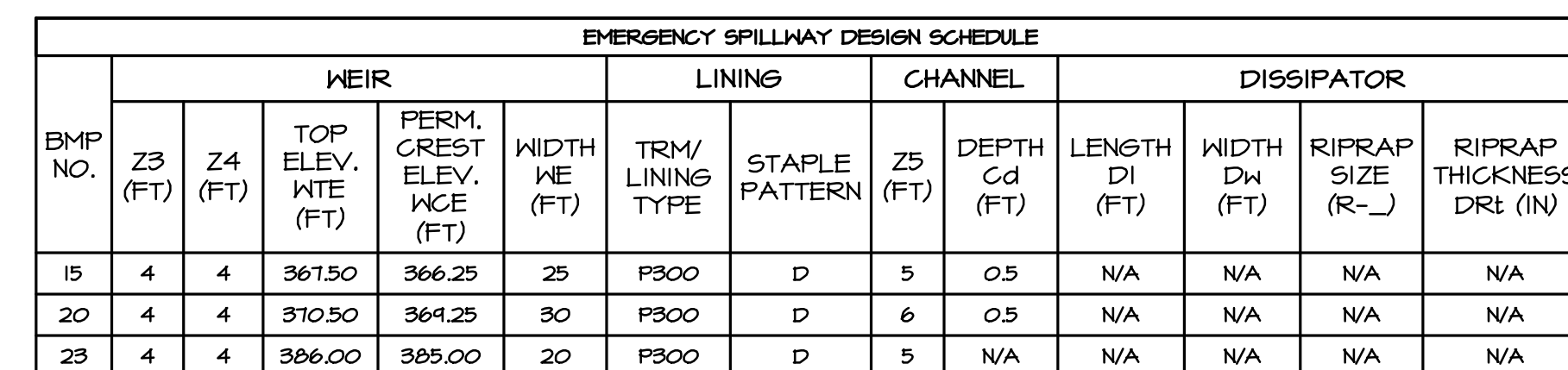
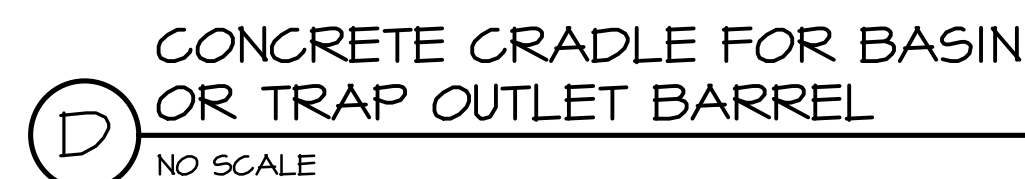


FINAL PHASE 1 PLAN
SUBJECT:
STORMWATER DETAILS
FOR
WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT:
VISTABLOCK, LLC
150 FARMINGTON LANE
LANCASTER, PA 17601
717-682-8775

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	AS NOTED



REVISIONS PER:	DATE:	BY:
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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

FINAL PHASE 1 PLAN
SUBJECT: STORMWATER DETAILS
FOR WESTMOUNT
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA
CLIENT: VISTABLOCK, LLC
150 FARMINGTON LANE LANCASTER, PA 17601 717-682-8775

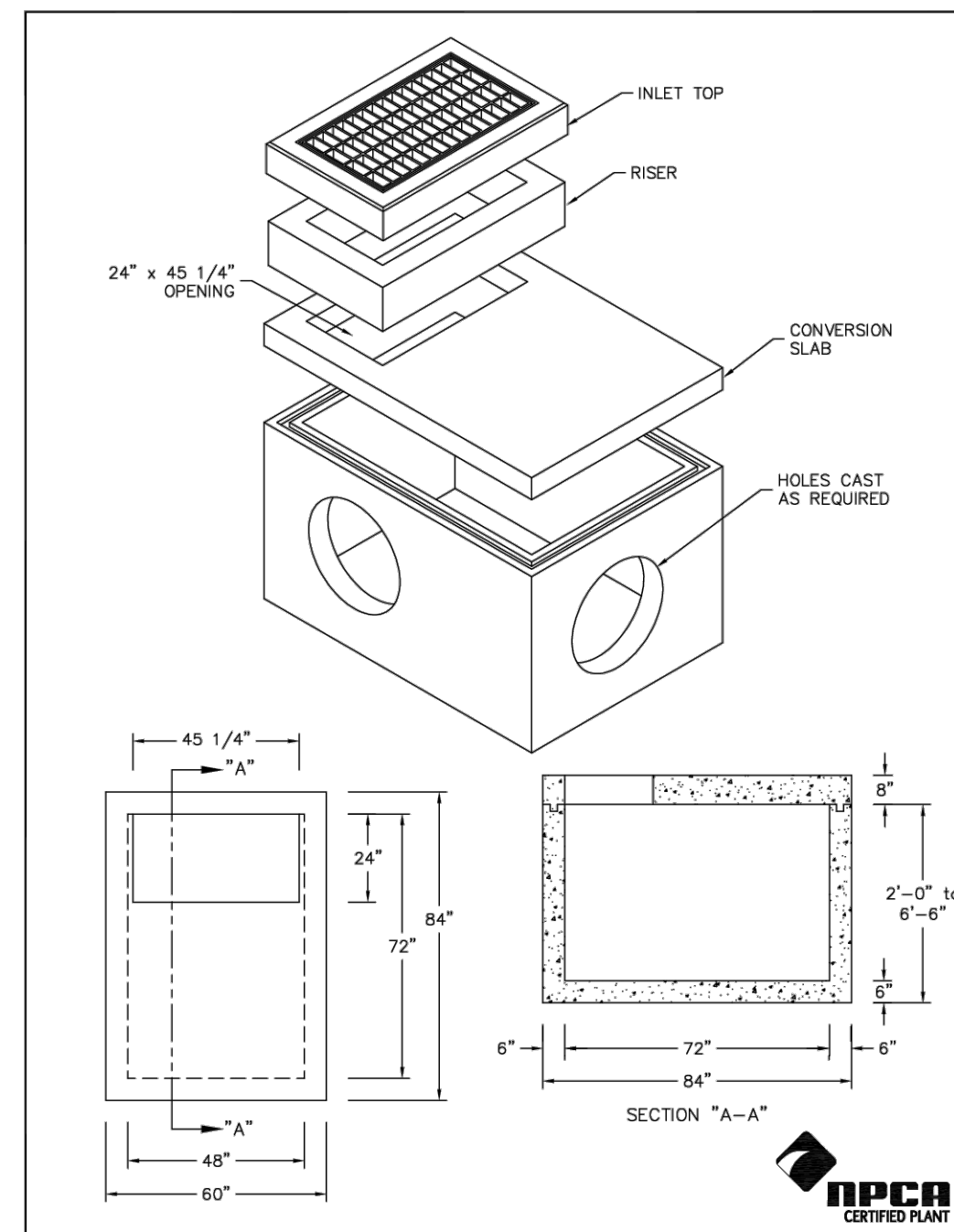
MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	AS NOTED

DRAWING NO

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DRAWING NO.
62 of 79



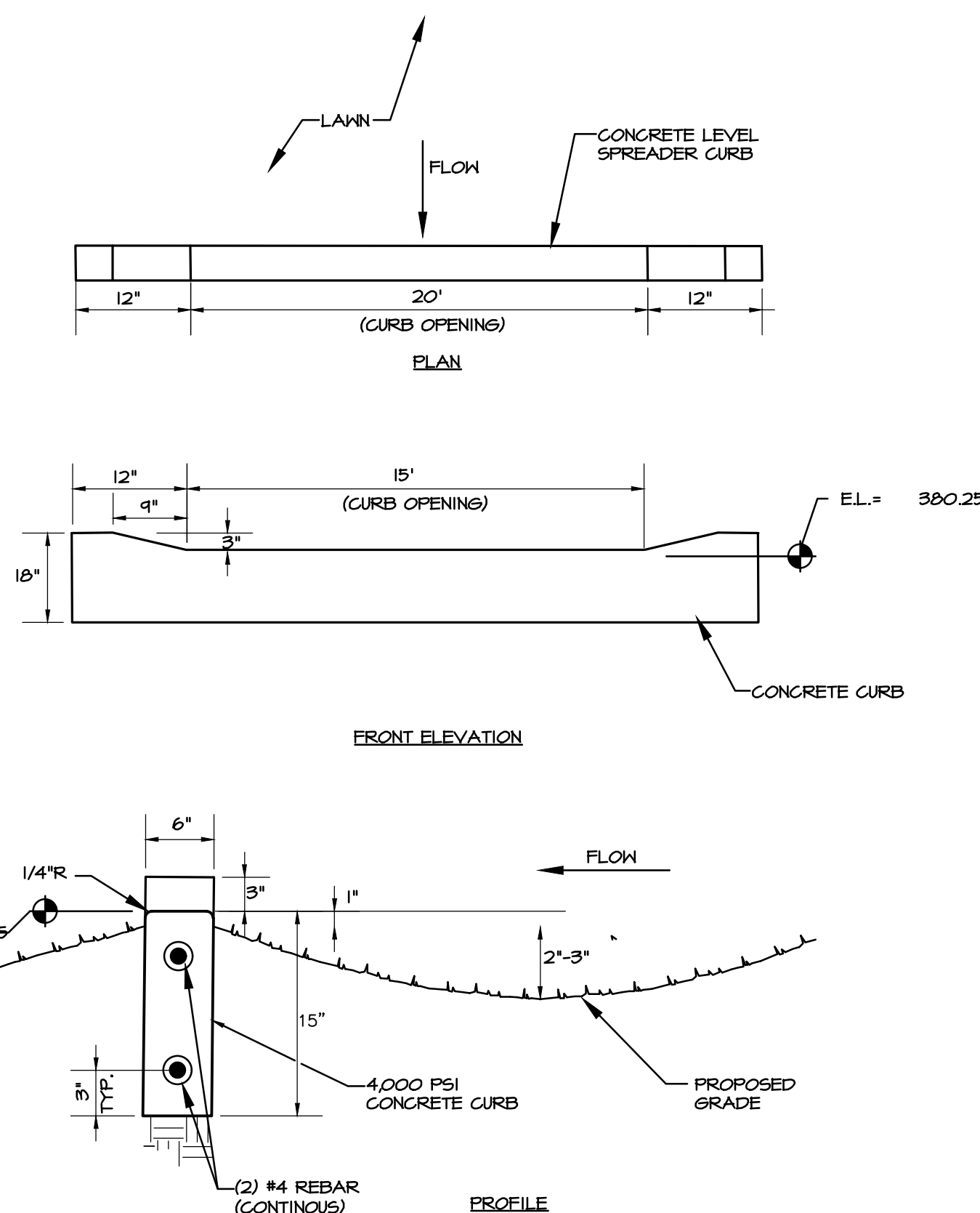
48" X 72" INLET BOX W/ INLET TOP
NO SCALE

A BMP 22 LAYOUT DETAIL
1" = 10'

FOR $D \geq 3$ FT. - USE R-4
FOR $D \geq 2$ FT. TO $D < 3$ FT. - USE R-3
NOT APPLICABLE FOR $D < 2$ FT.

- NOTES:
1. INSPECT FOREBAY CHECK DAMS DURING EACH BASIN INSPECTION.
 2. VEGETATION AND DEBRIS SHALL BE REMOVED FROM THE FACE OF THE CHECK DAM FOLLOWING REGULAR MOWING AND DURING BASIN INSPECTIONS.
 3. DISLODGED RIPRAP SHALL BE REPLACED DURING REGULAR INSPECTIONS
 4. WHEN SEDIMENT DEPOSITION IS OBSERVED THROUGHOUT THE CHECK DAM, REMOVE AND REPLACE THE CHECK DAM.

D BASIN FOREBAY CHECK DAM
NO SCALE

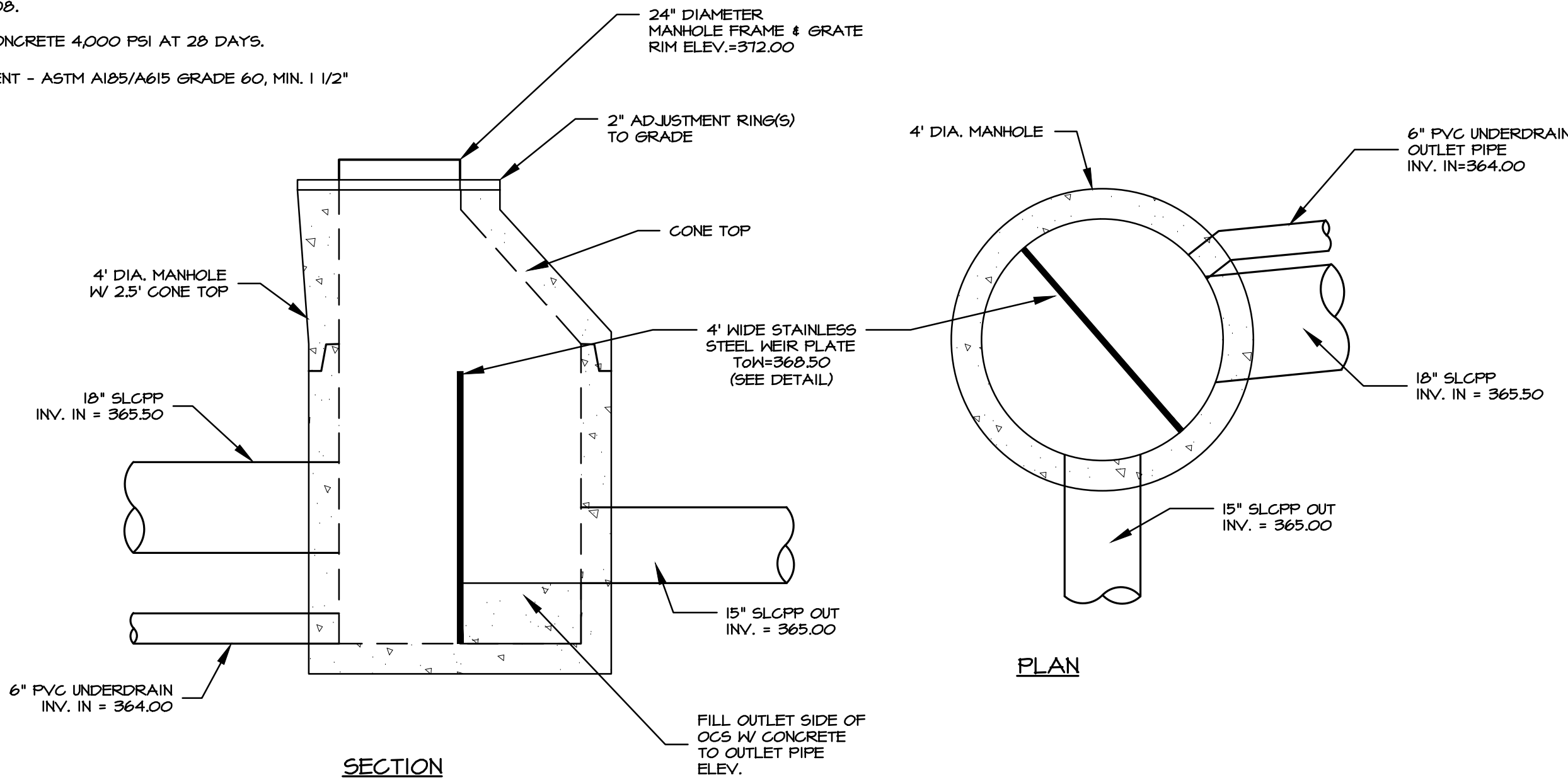


LEVEL SPREADER (EW-998)
NO SCALE

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.	1212-004
CAD DESIGNER:	TRS	SCALE:	AS NOTED

NOTES:

1. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT.
2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.
3. STRUCTURES SHALL BE PRE-CAST.
4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.
5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
7. REINFORCEMENT - ASTM A185/A615 GRADE 60, MIN. 1 1/2" COVER.

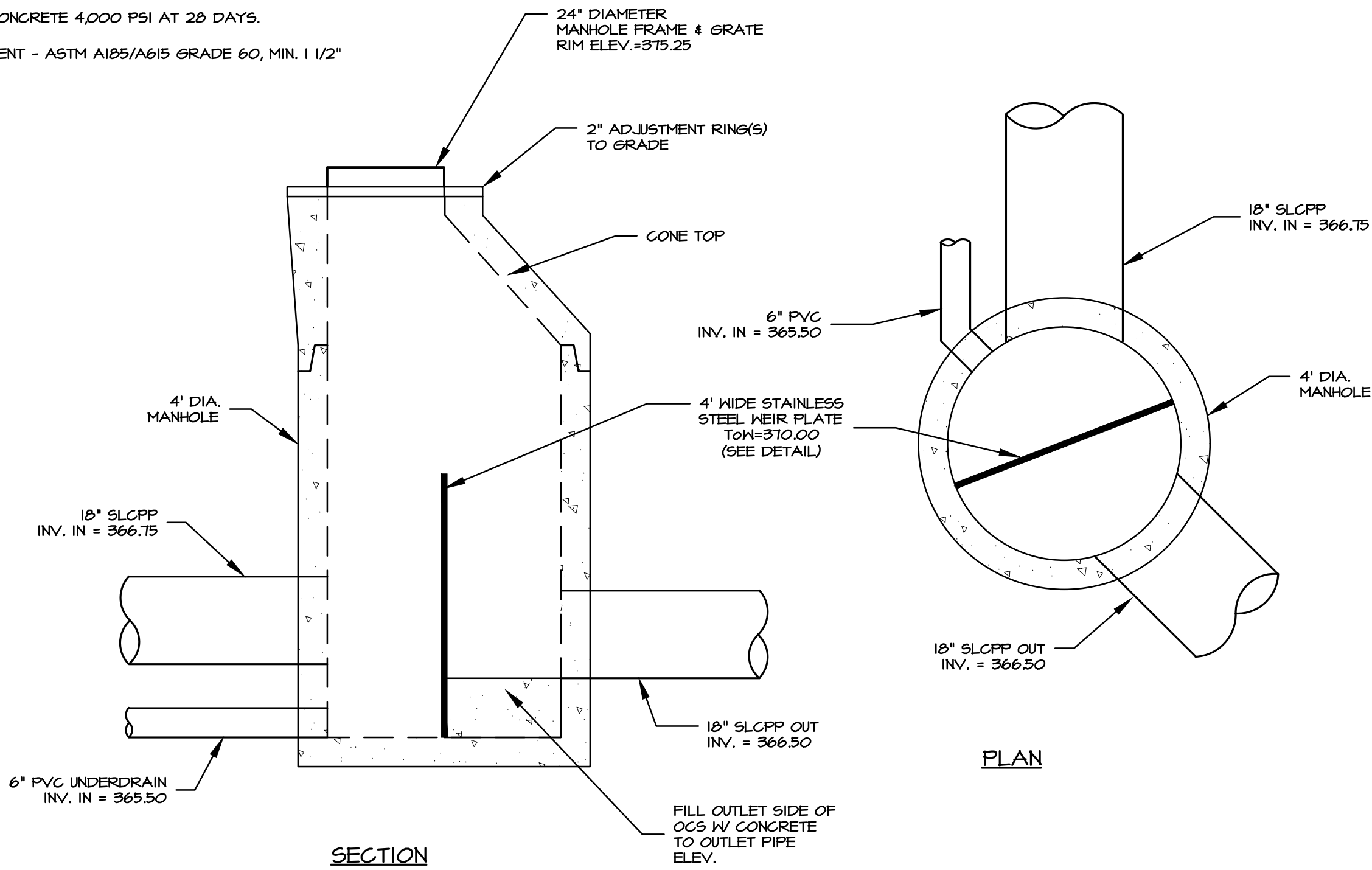


A OCS 14 DETAIL

1/2" = 1'

NOTES:

1. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT.
2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.
3. STRUCTURES SHALL BE PRE-CAST.
4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.
5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
7. REINFORCEMENT - ASTM A185/A615 GRADE 60, MIN. 1 1/2" COVER.

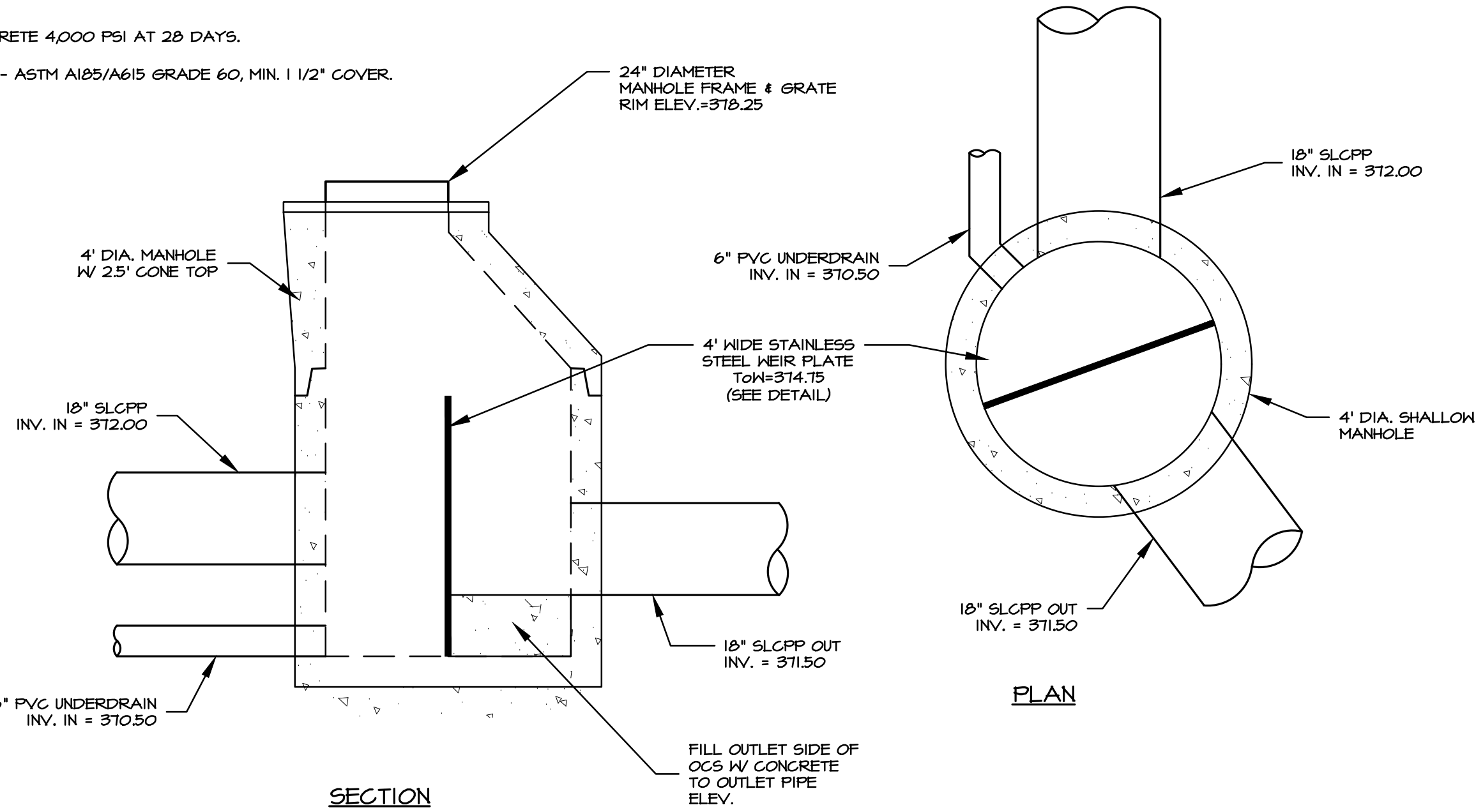


C OCS 19 DETAIL

1/2" = 1'

NOTES:

1. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT.
2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.
3. STRUCTURES SHALL BE PRE-CAST.
4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.
5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
7. REINFORCEMENT - ASTM A185/A615 GRADE 60, MIN. 1 1/2" COVER.

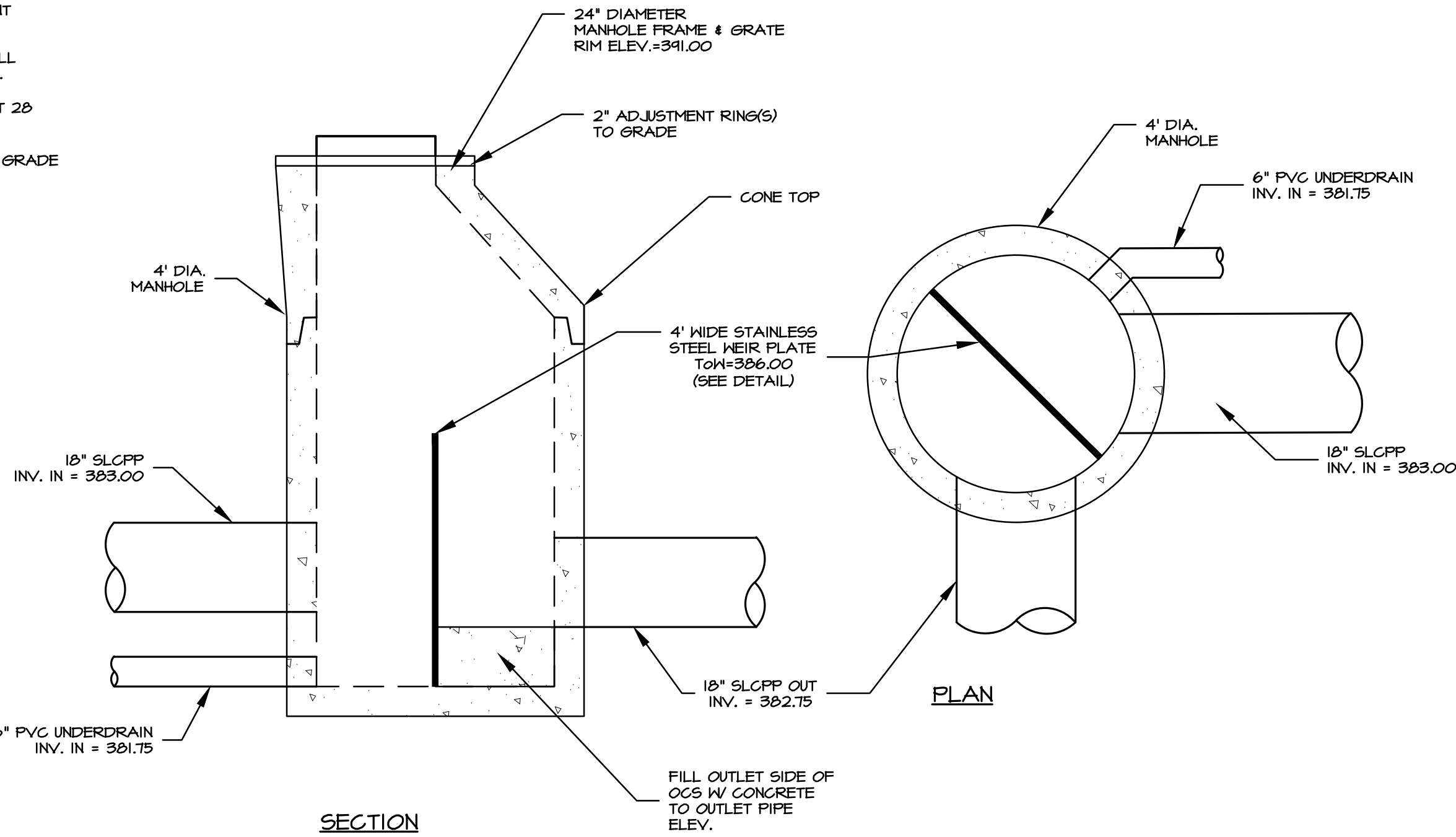


B OCS 17 DETAIL

1/2" = 1'

NOTES:

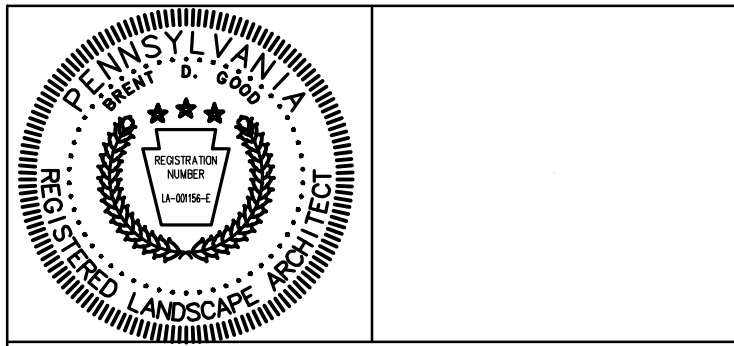
1. ALL CONNECTIONS TO OUTLET STRUCTURE MUST BE WATERTIGHT.
2. CONTRACTOR SHALL VERIFY BOX SIZING BASED ON PIPE SIZES & ALIGNMENT PRIOR TO ORDERING STRUCTURES.
3. STRUCTURES SHALL BE PRE-CAST.
4. DRAINAGE STRUCTURES THAT ARE FIVE FOOT OR GREATER IN DEPTH SHALL HAVE POLYPROPYLENE ENCASED MANHOLE STEPS INSTALLED ARE PER CURRENT STANDARDS.
5. MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PENN D.O.T. PUB. 408.
6. CLASS AA CONCRETE 4,000 PSI AT 28 DAYS.
7. REINFORCEMENT - ASTM A185/A615 GRADE 60, MIN. 1 1/2" COVER.



D OCS 22 DETAIL

1/2" = 1'

REVISIONS PER:	DATE:	BY:
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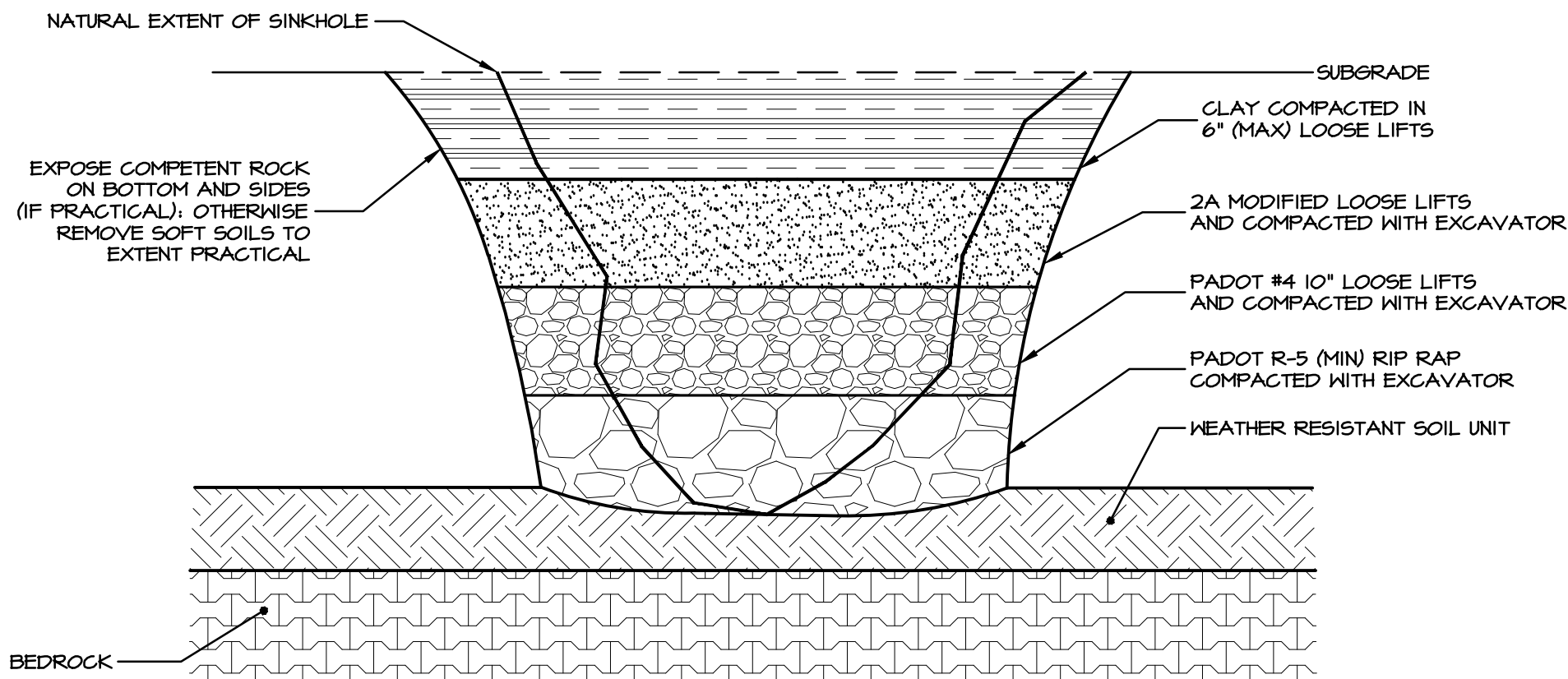
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

FINAL PHASE 1 PLAN	
SUBJECT:	
STORMWATER DETAILS	
FOR	
WESTMOUNT	
MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA	
CLIENT:	
VISTABLOCK, LLC	
150 FARMINGTON LANE	
LANCASTER, PA 17601	
717-682-8775	

MANAGER:	BDG	DATE:	AUG. 3, 2026
ENGINEER:	TEH	PROJECT NO.:	1212-004
CAD DESIGNER:	TRS	SCALE:	AS NOTED

DRAWING NO.
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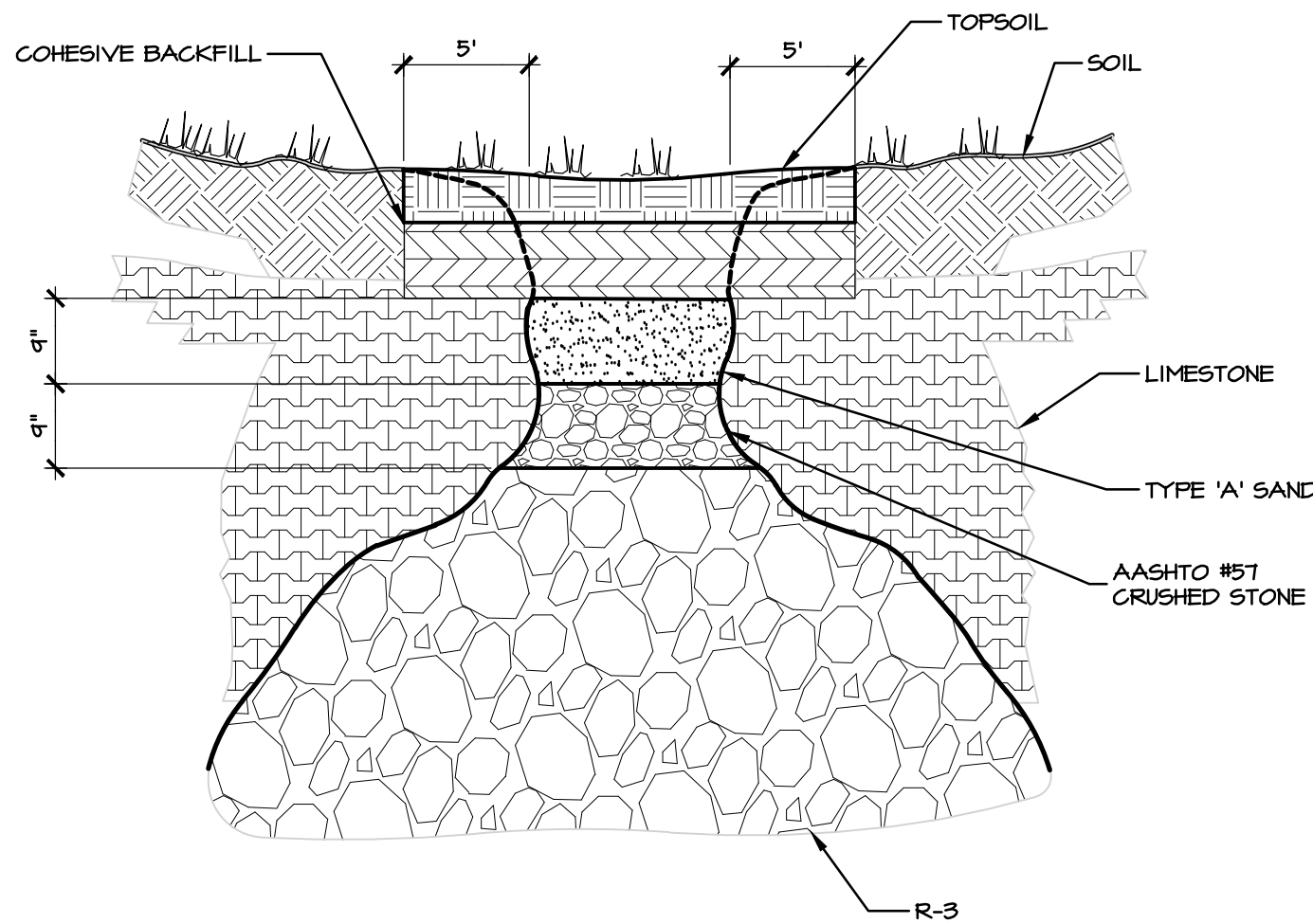
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NOTES:

1. SINKHOLE MITIGATION MEASURES SHOULD BE APPROVED BY A PA LICENSED GEOLOGIST OR ENGINEER PRIOR TO IMPLEMENTATION
2. EXAMPLE MITIGATION PRESENTED FOR SINKHOLES NOT NEAR SURFACE STRUCTURES AND/OR STRUCTURAL SUPPORT.
3. THICKNESS OF BACKFILL MATERIAL WILL VARY BASED ON SITE CONDITIONS. IT IS SUGGESTED THAT A PA LICENSED GEOLOGIST BE CONSULTED PRIOR TO MITIGATION

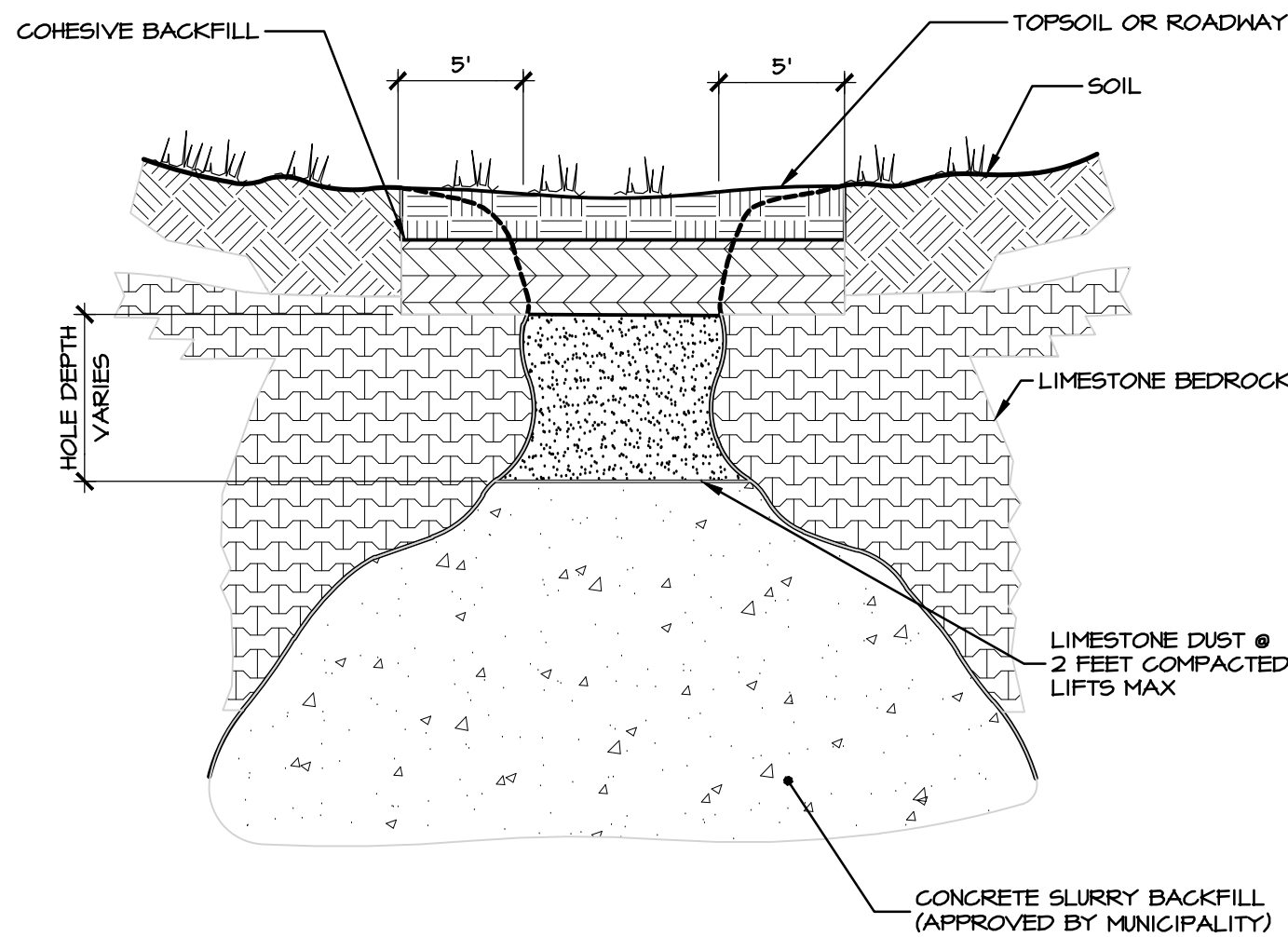
A SINKHOLE REPAIR DETAIL - NO THROAT ENCOUNTERED
NO SCALE



NOTES:

1. STRIP ALL SOFT OR UNSUITABLE MATERIALS EXTENDING HORIZONTALLY 5 FEET BEYOND THE PERIMETER OF THE EXISTING SINKHOLE TO A DEPTH OF COMPETENT BEDROCK OR TO 3 FEET BELOW PLAN SUBGRADE, WHICHEVER IS LESS.
2. FILL SINKHOLE WITH R-3 ROCK TO 10 INCHES BELOW THE LEVEL OF THE STRIPPED SURFACE. USE LARGER ROCK IF NECESSARY TO FILL VOIDS. FILL THE REMAINING 10 INCHES WITH AASHTO #57 CRUSHED STONE AND 9 INCHES OF THE TYPE 'A' SAND AS SHOWN. COMPACT TO AN UNYIELDING CONDITION.
3. FILL AREA WITH CONTROLLED MATERIAL TO PLAN SUBGRADE, AND REPLACE TOPSOIL.
4. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT TRAVERSE THE CORRECTED AREA.
5. THE MUNICIPALITY AND/OR MUNICIPALITY ENGINEER SHALL BE CONTACTED PRIOR TO ANY SINKHOLE REPAIR.

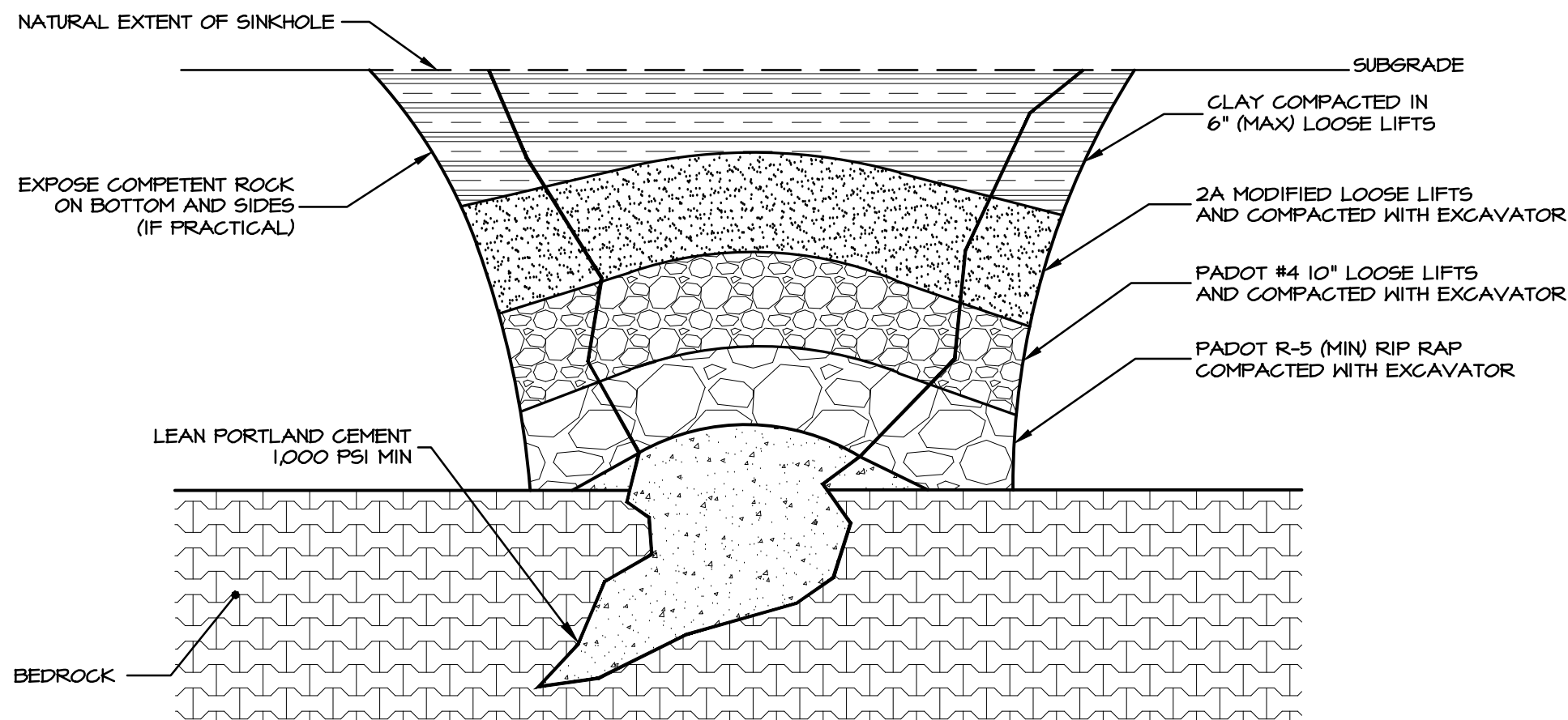
B 'ROCK FILL' SINKHOLE REPAIR DETAIL
NO SCALE



SINKHOLE REPAIR NOTES:

1. ANY SINKHOLE ENCOUNTERED PRECEDING, OR DURING SITE DEVELOPMENT ON ANY AREA THAT IS INTENDED TO BE OFFERED TO THE CITY FOR DEDICATION (BE IT FOR SANITARY SEWER EASEMENT, STREET RIGHT-OF-WAY, STORM SEWER EASEMENT, OR ANY OTHER PUBLIC USE) SHALL BE REPAIRED USING THE FOLLOWING METHODS:
A. REMOVE ALL UNSUITABLE SOIL IN THE LOCATION OF THE SINKHOLE IN ORDER TO LOCATED AN OPENING (SINKHOLE "THROAT") IN THE BEDROCK, IF POSSIBLE.
B. "THROAT" SHOULD BE FLUSHED WITH WATER TO CLEAR. OPENING, TO BE IMMEDIATELY FILLED WITH A FLOWABLE FILL OR CONCRETE SLURRY UNTIL MATERIAL BACKS UP IN TO EXCAVATED HOLE. ALLOW CONCRETE TO SETUP FOR TWENTY-FOUR HOURS.
C. FILL HOLE WITH LIMESTONE "DUST", COMPACTED IN LIFTS OF TWO FEET MAXIMUM DEPTH.
D. REPLACE SUBSOIL IMMEDIATELY BELOW SURFACE AND RESTORE SURFACE AS PER INTENDED USE, I.E., GRASSED AREA, ROADWAY, DRIVEWAY, ETC.
2. THE DEVELOPER SHALL NOTIFY THE MUNICIPALITY IF ANY SINKHOLES ARE ENCOUNTERED DURING DEVELOPMENT, AND SHALL PROVIDE THE MUNICIPALITY WITH A DESCRIPTION AND LOCATION OF ANY SINKHOLE REPAIR.

C 'CONCRETE FILL' SINKHOLE REPAIR DETAIL
NO SCALE

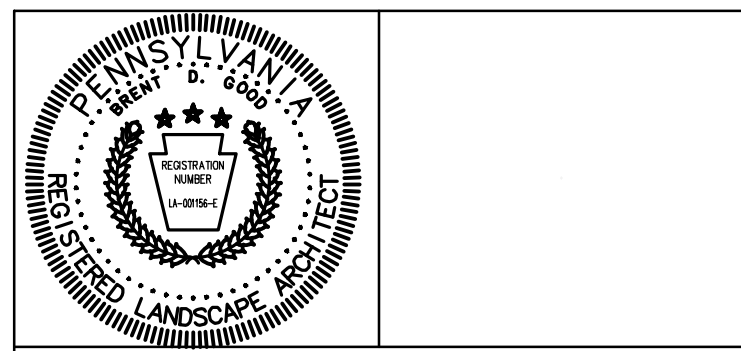


NOTES:

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2. EXAMPLE MITIGATION PRESENTED FOR SINKHOLES NOT NEAR SURFACE STRUCTURES AND/OR STRUCTURAL SUPPORT.
3. THICKNESS OF BACKFILL MATERIAL WILL VARY BASED ON SITE CONDITIONS. IT IS SUGGESTED THAT A PA LICENSED GEOLOGIST BE CONSULTED PRIOR TO MITIGATION

D SINKHOLE REPAIR DETAIL - THROAT ENCOUNTERED
NO SCALE

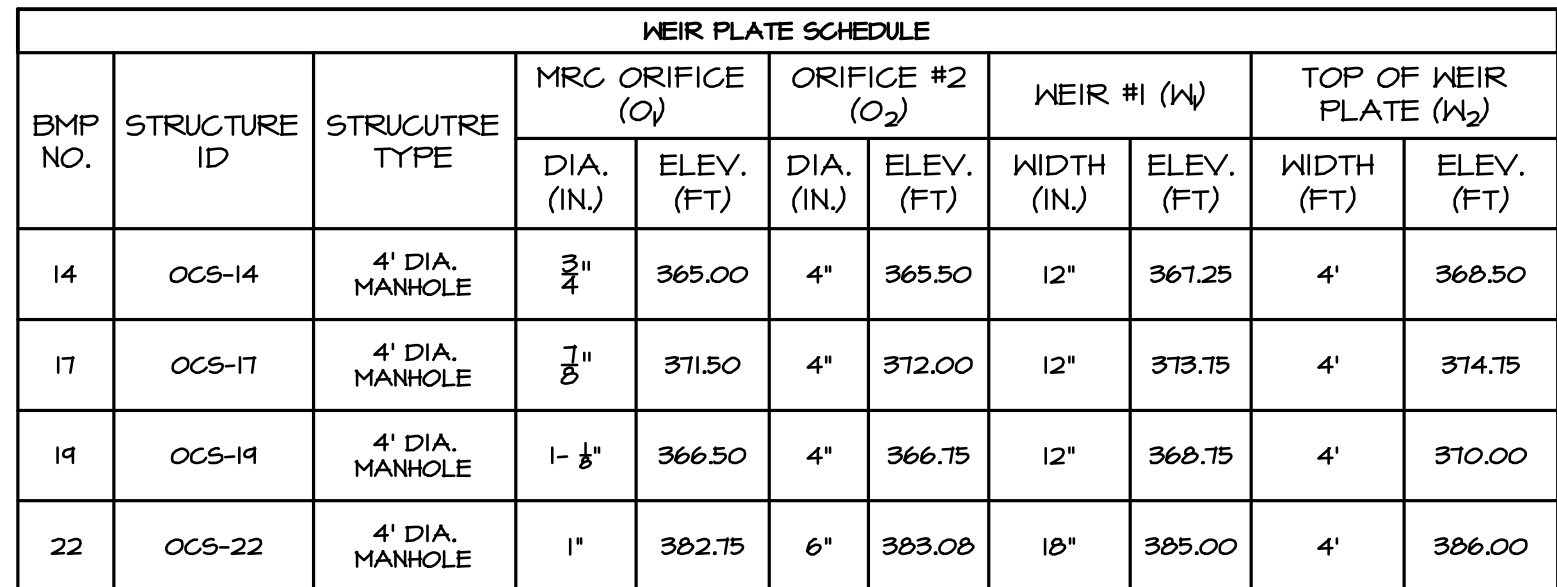
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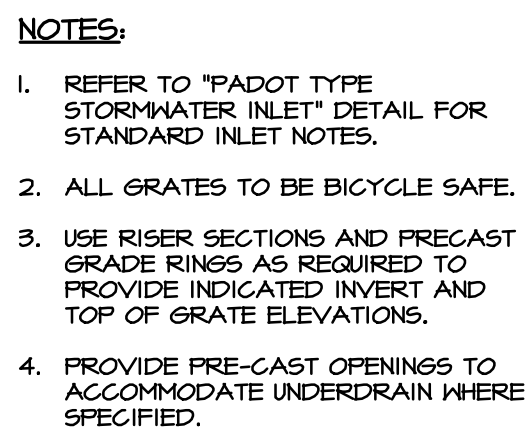
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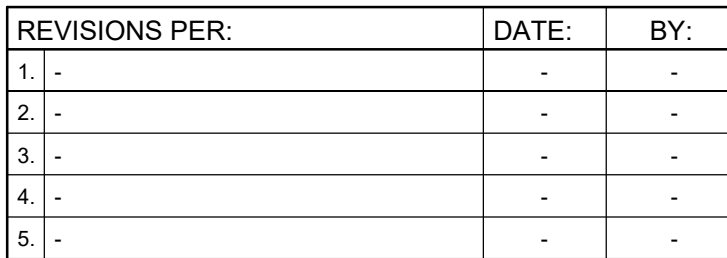


- (D) 2' X 2' PRECAST INLET
NO SCALE

B IMPERMEABLE LINER DETAIL
NO SCALE



BARRACUDA MAX (S8) STANDARD DETAIL
NO SCALE



ELA GROUP
ENGINEERS + LANDSCAPE ARCHITECTS
4139 Oregon Pike, Ephrata, PA 17522 717.626.7271
elagroup.com



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