

1. THE CONTRACTOR SHALL REFER TO ADDITIONAL PLAN SHEETS WITHIN THIS SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSIDERED AN AFFIRMATION THAT THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE. IF DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN PLANS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY.
3. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING. THIS PROJECT IS CONSIDERED TO BE A STANDARD CONSTRUCTION PROJECT AND IS NOT DIFFERENT THAN THOSE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
6. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FROM ALL CLAIMS, DAMAGES, LOSSES, AND COSTS, INCLUDING ATTORNEY'S FEES, AND CONSTRUCTION WORK, INCLUDING INJURY TO PERSONS AND DAMAGE TO PROPERTY OR EXISTING FACILITIES.
7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE CODES, OBTAIN ALL APPLICABLE PERMITS, AND BONDS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
8. ALL WORK AND MATERIALS SHALL COMPLY WITH SPECIFICATIONS PROVIDED; ALL LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS AND CODES, AND OSHA STANDARDS IF CONFLICT IS DETERMINED TO EXIST, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER AND OWNER.
9. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
10. THE CONTRACTOR SHALL DESIGNATE A TRAINED COMPETENT PERSON FOR ALL EXCAVATION WORK WHO SHALL BE ON SITE DURING 24 HOURS PER DAY 7 DAYS PER WEEK IN CASE OF EMERGENCY. THE CONTRACTOR SHALL PROVIDE CONTACT INFORMATION FOR THIS PERSON PRIOR TO COMMENCING WORK.
11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PENNDOT AND PROJECT SPECIFIC SPECIFICATIONS.
12. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM WITH THE SITE SPECIFIC MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL COVENANT IS THE RESPONSIBILITY OF THE OWNER OR OWNER'S AGENT TO RETAIN A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO OBSERVE AND ACCESS COMPLIANCE WITH THE SITE SPECIFIC MATERIALS MANAGEMENT PLAN, COA, ENVIRONMENTAL COVENANT AND CONTRACT DOCUMENTS.
13. DAMAGE TO EXISTING PAVEMENT TO REMAIN RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING SITE FEATURES OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY AND OBTAIN THE OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES THE OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER OR ANY INCIDENTAL COSTS.
15. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES, ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, SPECIAL CONDITIONS, AND COPIES OF ALL REQUIRED PERMITS.
16. THE CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING CONSTRUCTION ACTIVITIES. IF DISTURBED, THE CONTRACTOR SHALL HAVE EFFECTED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN OR ADJACENT TO TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES AS AT THE COMPLETION OF APPROPRIATE INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE OBTAINING OF CERTIFICATIONS OF JURISDICTION WHEN REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF PENNSYLVANIA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
19. NO LANDSCAPING WILL OCCUR ON THE SITE DUE TO CLASSIFICATION AS A SUPERFUND SITE.
20. NO LIGHT POLES TO BE LOCATED WITHIN THE FIRSTENRGY EASEMENT.
21. NO CONSTRUCTION EQUIPMENT WILL BE STORED WITHIN FIRSTENRGY EASEMENT DURING OR AFTER CONSTRUCTION ACTIVITIES.
22. THERE WILL BE NO CHANGES TO THE GRADE ELEVATIONS OF THE RIGHT OF WAY UPON COMPLETED OF THE PROJECT.
23. NO SOIL PILES OR OTHER MATERIAL SHALL BE PLACED OR STORED UNDER THE TRANSMISSION-LINE CONDUCTORS AT ANY TIME.

NOTIFICATION REQUIREMENTS

1. A PRE-CONSTRUCTION MEETING WITH THE MERCER COUNTY CONSERVATION DISTRICT AND PADEP IS REQUIRED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. A MINIMUM OF 7 DAYS' NOTICE SHALL BE PROVIDED TO THE CDD/DEP PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. IF THE CDD/DEP IS UNABLE TO ATTEND, THE SOLELY RESPONSIBLE PRE-CONSTRUCTION MEETING, THEN THE PERMITTEE MUST STILL HOLD THE MEETING WITHOUT THE CDD/DEP.
2. UPON THE INSTALLATION OF PERIMETER SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) AND AT LEAST THREE (3) DAYS PRIOR TO PROCEEDING WITH BULK EARTHWORK ACTIVITIES, THE PERMITTEE SHALL PROVIDE NOTIFICATION TO THE CDD/DEP BY PHONE OR ELECTRONIC MAIL.
3. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INSTALLING PROPOSED STORMWATER CONTROL MEASURES (SCMs). INSTALLATION OF CRITICAL STAGES OF SCM CONSTRUCTION MUST BE OVERSEEN BY A LICENSED PROFESSIONAL. THE LICENSED PROFESSIONAL MUST FURNISH THE CDD/DEP WITHIN 30 DAYS OF COMPLETION OF THE SCM CONSTRUCTION.
4. THE PERMITTEE MUST NOTIFY THE CDD/DEP OF ANY PLANNED CHANGE TO EARTH DISTURBANCE ACTIVITIES, BULK EARTHWORK, OR ANY OTHER CHANGE THAT MAY AFFECT NPDES PERMIT COVERAGE PRIOR TO IMPLEMENTING THE CHANGE. THE CDD/DEP WILL NOTIFY THE PERMITTEE WHETHER SUBMISSION OF AN NOI TO AMEND PERMIT COVERAGE IS REQUIRED. THE PERMITTEE MAY NOT PROCEED TO IMPLEMENT THE PROPOSED CHANGE UNTIL THE PERMITTEE RECEIVES WRITTEN APPROVAL FOR THE AMENDMENT FROM THE CDD/DEP.
5. THE PERMITTEE MUST PROVIDE IMMEDIATE NOTIFICATION TO DEP FOR ANY INCIDENT CAUSING OR THREATENING POLLUTION (NO LATER THAN FOUR (4) HOURS AFTER BECOMING AWARE OF THE INCIDENT). IN ADDITION, ANY NON-COMPLIANCE WITH THE THAT MAY ENDANGER HEALTH OR THE ENVIRONMENT MUST BE REPORTED WITHIN 24 HOURS, AND A WRITTEN REPORT MUST BE PROVIDED WITHIN FIVE (5) DAYS.

1. CONTRACTOR SHALL REFER TO THE SUBSTATION PLANS FOR THE EXACT LOCATION OF UTILITY ENTRANCES AND SUBSTATION DIMENSIONS.
2. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF SIDEWALK UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS FOR THE INSTALLATION OF TRAFFIC SIGNAGE AND PAVEMENT MARKINGS AS SHOWN ON THE CONSTRUCTION PLANS.
4. ALL NON-LANDSCAPED ISLANDS SHALL BE PAINTED WITH STRIPES 4" WIDE, AT 45° AND 2 FEET O.C.
5. ALL STRIPING SHALL BE 4" WIDE UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AT THE PROJECT SITE.
7. SEE DETAIL SHEETS FOR ADDITIONAL CONSTRUCTION INFORMATION.
8. CONTRACTOR SHALL NEATLY SAW-CUT ALL JOINTS WHERE THE PROPOSED CONSTRUCTION MEET EXISTING PAVEMENT AND CONCRETE.

1. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMITS AND REQUIREMENTS.
2. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED.
3. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING IMPORT AND EXPORT MATERIAL IN ACCORDANCE WITH THE PADEP'S MANAGEMENT OF FILL POLICY (MOST RECENT EDITION) THE MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL COVENANT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANALYTICAL TESTING TO CHARACTERIZE MATERIALS IN ACCORDANCE WITH THE CLEAN FILL POLICY, AND RESPONSIBLE FOR THE COSTS ASSOCIATED WITH DISPOSING OF EXPORT MATERIAL IN ACCORDANCE WITH THE POLICY.
4. CEC NOTES THAT HISTORIC FILLS (FILLS WITH RESIDUALS PLACED PRIOR TO 1988 AS DEFINED IN THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) CLEAN FILL POLICY) ARE SUBJECT TO ADDITIONAL TESTING, HANDLING, AND MANAGEMENT REQUIREMENTS PER THE PADEP'S CLEAN FILL POLICY THE CONTRACTOR SHALL CONDUCT ENVIRONMENTAL TESTING TO DETERMINE IF THE FILLS ARE OFF-SITE. CEC CONCLUDES THE EXISTING FILL ON-SITE WOULD NEED TO BE TESTED TO DETERMINE BEST MANAGEMENT PRACTICES AS OUTLINED IN THE MATERIALS MANAGEMENT PLAN. REFER TO THE CLEAN FILL POLICY FOR MORE INFORMATION.
5. THE PADEP DEFINES ENVIRONMENTAL DUE DILIGENCE AS FOLLOWS REGARDING CLEAN FILL: INVESTIGATIVE TECHNIQUES, INCLUDING BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF RECORD OWNERS, REVIEW OF PROPERTY USES, RECORDS, AND RECORDS OF ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION RECORDS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR DURING OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. RELASE CONSTRUCTION, PADEP/CDD MUST BE CONTACTED WITHIN 24 HOURS IF SOIL SAMPLES ARE FOUND TO EXCEED CH 250 MSC STANDARDS.
6. SEDIMENT, TRASH, OR ANY NON-NATIVE MATERIAL OBSERVED WITHIN CHANNELS, PIPES AND/OR CATCH BASINS SHOULD BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF WITH THE DEPARTMENT OF SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE ACCORDANCE WITH THE PADEP APPROVED CLEAN UP PLAN THE MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL COVENANT.

1. IT IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO RETAIN A QUALIFIED GEOTECHNICAL ENGINEER TO ASSESS SUBSURFACE CONDITIONS FOR THE PROPOSED SUBSTATION AND BUILDING AREAS AND VERIFY THE STABILITY OF PROPOSED AND EXISTING SLOPES. CEC ASSUMES NO LIABILITY FOR SLOPE STABILITY OR RELATED GEOTECHNICAL CONDITIONS.
2. THE CONTRACTOR MUST CONDUCT INDEPENDENT VERIFICATION AND CONDUCT ADDITIONAL TESTS WHERE IT IS DETERMINED NECESSARY FOR CONSTRUCTION OF THE IMPROVEMENTS AT NO ADDITIONAL COST TO THE OWNER.
3. ALL SLOPES SHALL BE 2:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE OFFSITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND FOR IMPORTING ANY BORROW MATERIAL NECESSARY TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL PROVIDE A SUITABLE DISPOSAL SITE FOR EXCESS SOIL MATERIAL, WHEN APPLICABLE, IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED.
5. ALL EXCAVATION IS CONSIDERED UNCLASSIFIED UNLESS OTHERWISE NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE OFFSITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND FOR IMPORTING ANY BORROW MATERIAL NECESSARY TO COMPLETE THE WORK.
6. IF DURING CONSTRUCTION GEOLOGIC HAZARDS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER, CIVIL ENGINEER, AND GEOTECHNICAL ENGINEER TO DETERMINE THE PROPER HANDLING OF THESE MATERIALS.
7. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT.
8. ADJUST GRADES WHERE NECESSARY TO PROVIDE POSITIVE DRAINAGE TOWARDS EXISTING OR PROPOSED STORM SEWER STRUCTURES AND/OR CHANNELS. NOTIFY ENGINEER.
9. ALL ELEVATIONS SHOWN ARE REFERENCED TO BENCHMARKS ON THE PROJECT SURVEY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AT GROUNDBREAKING.
10. ALL SPOT ELEVATIONS ARE REFERENCED TO THE FINISHED GROUND SURFACE UNLESS OTHERWISE NOTED.

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING, AND FINAL ACCEPTANCE OF NEW STORMWATER MANAGEMENT FACILITIES. THE CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AUTHORITIES, AS APPROPRIATE.
3. ALL STORMWATER MANAGEMENT FACILITIES AND CONVEYANCE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
4. UNDERGROUND DETENTION/STORAGE SYSTEMS LOCATED WITHIN, BELOW, OR IMMEDIATELY ADJACENT TO IDENTIFIED OR SUSPECTED CONTAMINATION ZONES SHALL BE LINED WITH SEAMAN CORPORATION XR-5w GEOMEMBRANE OR APPROVED EQUAL. SYSTEMS LOCATED OUTSIDE IDENTIFIED CONTAMINATION ZONES MAY BE LINED WITH SEAMAN CORPORATION XR-3s GEOMEMBRANE OR APPROVED EQUAL, SUBJECT TO CONTRACTOR VERIFICATION OF SITE CONDITIONS AND MANUFACTURER CONFIRMATION OF CHEMICAL COMPATIBILITY. CONTRACTOR REMAINS RESPONSIBLE FOR LINER SELECTION AND PERFORMANCE.
5. ALL STORM PIPE AND STRUCTURE CONNECTIONS SHALL REQUIRE A WATERTIGHT SEAL.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL UNDERGROUND DETENTION SYSTEMS, INLETS, MANHOLES, ENDWALLS, AND PIPES.

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING WITH THE EPA AND ALL APPLICABLE AGENCIES TO ABANDON OR MODIFY EXISTING MONITORING WELLS AS NOTED IN THE PLAN SHEETS AND ANY REQUIRED REGULATORY REQUIREMENTS INCLUDING ALL PERMITS, APPROVALS, MEANS AND METHODS OF ABANDONMENT AND COMPLY WITH APPLICABLE REGULATIONS. ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR REGULATORY COORDINATION OR FIELD EXECUTION.
2. CONTRACTOR SHALL OBTAIN THE SITE SAFETY PLAN AND SOIL MANAGEMENT PLAN FROM THE OWNER, MERCER NODE PROPERTY, LLC, ACKNOWLEDGE RECEIPT THEREOF, AND ENFORCE ALL REQUIREMENTS FOR ITSELF AND ALL SUBCONTRACTORS. NO SITE DISTURBANCE ACTIVITIES SHALL COMMENCE UNTIL THESE PLANS ARE REVIEWED AND FULLY IMPLEMENTED, AND COMPLIANCE SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UTILITY COMPANIES WHICH MAY HAVE UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 30 DAYS WRITTEN NOTICE TO EACH UTILITY COMPANY PRIOR TO COMMENCING CONSTRUCTION. WHERE UTILITIES ARE NOT KNOWN TO THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THIS SHEET. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
2. THE CONTRACTOR IS EXPRESSLY CAUTIONED THAT THE LOCATIONS AND/OR ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREON ARE BASED ON TOPOGRAPHIC SURVEYS, RECORD DRAWINGS, AND OTHER INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ENGINEER. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER AS SOON AS POSSIBLE. NO GUARANTEE IS MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE PERFORMING ANY WORK IN ANY VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO DETERMINE THE EXACT LOCATION AND/OR PROTECT ANY UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COSTS INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES. TO RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
3. PROPOSED SUBSTATION AND TRANSMISSION LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING, AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY OR AGENCY.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THE UTILITY COMPANY'S REGULATIONS, SPECIFICATIONS, AND STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND PRODUCT SUBMITTALS TO UTILITY COMPANIES PRIOR TO ORDERING MATERIALS. APPROVAL OF MATERIALS AND EQUIPMENT BY UTILITY COMPANIES IS REQUIRED PRIOR TO INSTALLATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING, AND FINAL ACCEPTANCE OF PROPOSED UTILITIES UNLESS OTHERWISE COORDINATED WITH THE OWNER BEFOREHAND.
7. 18-INCH MINIMUM VERTICAL SEPARATION MUST BE MAINTAINED AT ALL UTILITY CROSSESS UNLESS OTHERWISE NOTED ON THE PLAN.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES. ALL UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION. WHERE UTILITIES ARE INSTALLED WITHIN EXISTING PAVEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE PAVEMENT WITH PROJECT REQUIREMENTS AND RESTORE SURFACE TO EXISTING CONDITION.
9. SHOWN UTILITY LOCATIONS ARE APPROXIMATE; THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS, BY TEST PITS IF NECESSARY, AND ALL UTILITIES AND PROPOSED CROSSINGS, REPORTING CONFLICTS TO THE OWNER AND ENGINEER. THE ENGINEER IS HELD HARMLESS FOR CONFLICTS NOT REPORTED PRIOR TO CONSTRUCTION.
10. TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. TRENCH SPOILS SHALL BE TESTED TO DETERMINE FEASIBILITY TO BE INCORPORATED INTO EARTHWORK AT OTHER LOCATIONS ON THE SITE OR REQUIRED TO BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
11. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.
2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.
4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO LOCATION SPECIFIED BY THE OWNER OR HIS/HER REPRESENTATIVE.
5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE OWNER OR HIS/HER REPRESENTATIVE'S PERMISSION. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
6. THE CONTRACTOR MAY NOT USE EXPLOSIVES OR BURN DEBRIS.
7. CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.
8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND/ OR PROPERTY OWNERS.
9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSON TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, SURROUNDING STRUCTURES, UTILITIES AND OTHER FACILITIES DURING DEMOLITION AND REMOVAL OPERATIONS.
11. BUILDING STRUCTURES INCLUDING FOUNDATIONS OR BASEMENTS SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
12. UTILITIES SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.

- OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) SAFE-WORKING CLEARANCE FROM A PERSON OR ANY CONDUCTIVE OBJECT TO THE ENERGIZED BARE WIRES SHALL BE MAINTAINED AT ALL TIMES, CONDUCTIVE OBJECTS DO NOT HAVE TO MAKE PHYSICAL CONTACT WITH THE CONDUCTORS FOR ELECTRICITY TO FLOW UNWANTED DIRECTIONS.
- THE LINE SHALL BE CONSIDERED ENERGIZED AT ALL TIMES.

NOTICE: CONDUCTOR POSITION CHANGES CONTINUOUSLY DEPENDING ON LOAD, AMBIENT TEMPERATURE, WIND SPEED, ETC. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR MONITORING CONDUCTOR POSITION TO DETERMINE OSHA SAFE WORKING CLEARANCE.

- PARKING OR OPERATING A VEHICLE OR EQUIPMENT WITHIN OR ADJACENT TO THE RIGHT-OF-WAY MAY INDUCE AN ELECTRIC CHARGE. INDUCED ELECTRIC CHARGES MAY ALSO BE IMPOSED ON OBJECTS SUCH AS FENCES, SIGNS, OR ANY OTHER CONDUCTIVE OBJECT. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO SATISFY THEMSELVES ON THE NECESSITY OF GROUNDING AND TO ENSURE THAT A PROPER GROUNDING SYSTEM EXISTS TO REMOVE A RESIDUAL CHARGE TO GROUND. IF APPLICABLE, CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING NEAR TRANSMISSION LINES MAY ALSO REQUIRE GROUNDING.

- FIRSTENERGY-AUTHORIZED PERSONNEL, VEHICLES AND EQUIPMENT MUST HAVE CONTINUOUS ACCESS TO THE RIGHTS-OF-WAY AND ALL FIRSTENERGY STRUCTURES.
- ALL OBJECTS OR EQUIPMENT LEFT WITHIN THE RIGHTS-OF-WAY ARE SUBJECT TO REMOVAL. FIRSTENERGY IS NOT RESPONSIBLE FOR THE REMOVAL OR REPLACEMENT OF ANYTHING IN THE TRANSMISSION RIGHTS-OF-WAY DAMAGED OR DESTROYED BECAUSE OF EMERGENCY OR MAINTENANCE OPERATIONS.
- FIRSTENERGY RESERVES THE RIGHT TO INSPECT AT ANY TIME CONSTRUCTION OR OTHER ACTIVITIES WITHIN THE RIGHTS-OF-WAYS, EASEMENTS, OR PROPERTY OWNED BY FIRSTENERGY.

CONSENTS AND/OR EASEMENTS FOR ANY UTILITY, ACCESS ROAD, ETC. WILL BE LIMITED TO A MAXIMUM OF 20 FEET IN WIDTH WITHIN THE FIRSTENERGY RIGHTS-OF-WAY UNLESS PROVISIONS ARE DEFINED IN THE EASEMENTS, DEEDS, ETC.

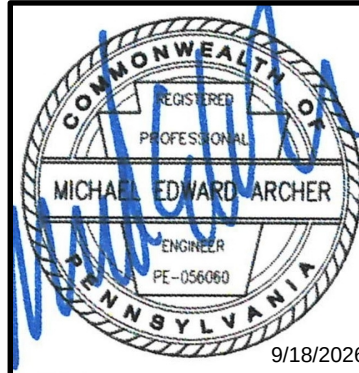
CHANGES TO GRADE ELEVATIONS WITHIN THE FIRSTENERGY TRANSMISSION RIGHT OF WAY ARE NOT PERMITTED. ANY BURIED UTILITIES OR EXCAVATIONS ARE NOT PERMITTED WITHIN 50 FEET OF ANY FIRSTENERGY STRUCTURE (POLES, TOWERS, GUYS, ETC). IN THE EVENT THAT THE EASEMENT WIDTH FROM THE STRUCTURE LOCATION IS LESS THAN 50 FEET, THE DISTANCE FROM THE STRUCTURE TO THE EDGE OF THE EASEMENT WILL BE THE DISTANCE USED.

- PROTECTIVE BARRIERS MUST BE USED FOR ANY DRIVEWAYS, ACCESS ROADS, OR PARKING AREAS, ETC., WITHIN 25 FEET OF ANY FIRSTENERGY STRUCTURE (POLES, TOWERS, GUYS, ETC).
- RIGHTS-OF-WAY, TEMPORARY EASEMENTS, LIMITS OF DISTURBANCE, LIMITS OF CONSTRUCTION, ETC., SHALL NOT INCLUDE TRANSMISSION OR DISTRIBUTION STRUCTURES WITHIN ITS LIMITS.
- UNLESS LEGAL DOCUMENTS MAKE PROVISIONS FOR SUCH, NO BUILDINGS, LIGHTING FIXTURES, SIGNS, BILLBOARDS, SWIMMING POOLS, DECKS, PLANT POSTS, SHEDS, BARNs, GARAGES, PLAYGROUNDS, FENCES OR OTHER STRUCTURES ARE PERMITTED WITHIN THE RIGHT OF WAY. OTHER RESTRICTIONS MAY APPLY FOR SPECIFIC SITUATIONS, SEPTIC SYSTEMS, LEACH BEDS, AND/OR WELLS ARE NOT PERMITTED WITHIN A FIRSTENERGY TRANSMISSION RIGHT OF WAY.
- KITE FLYING, MODEL AIRPLANE FLYING, OR SIMILAR ACTIVITY, IS STRICTLY PROHIBITED ON OR NEAR A FIRSTENERGY TRANSMISSION RIGHT OF WAY.

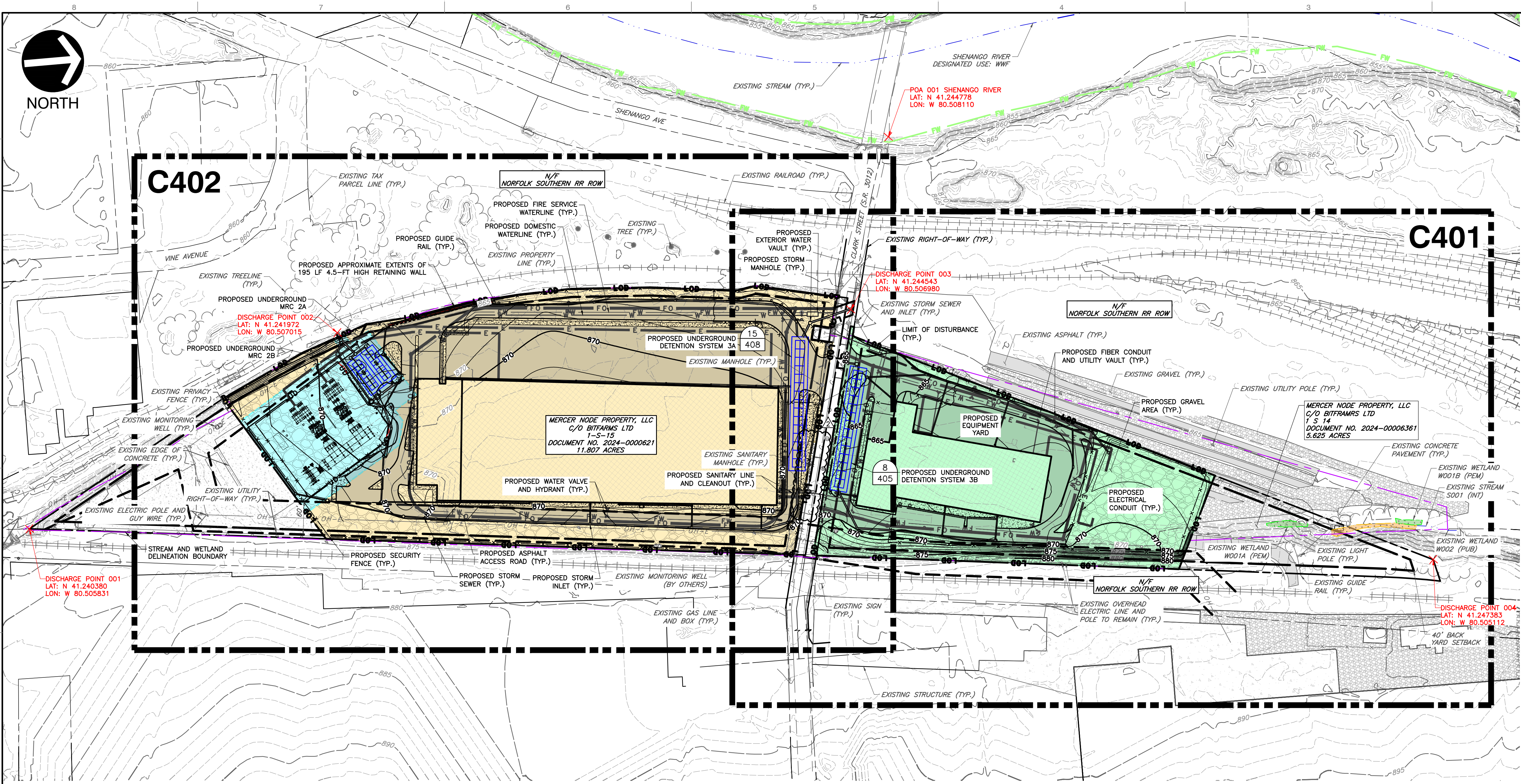
WHEN UTILITIES ARE APPROVED AND INSTALLED IN THE FIRSTENERGY RIGHTS OF WAYS/EASEMENTS, ETC., THE UTILITIES MUST BE APPROVED BY THE OWNER AND CONTACT INFORMATION MUST BE ESTABLISHED ON EACH SIDE OF THE RIGHT OF WAY AT NO GREATER THAN 300 FEET INTERVALS. PROVIDE ON THE PLANS THE EXACT LOCATION OF THE PIPELINE INCLUDING GPS LATITUDE AND LONGITUDE COORDINATES IN DECIMAL DEGREES, MINUTES, AND SECONDS, PIPE DRAINAGE, PIPE DIAMETER, PIPE DEPTH, PIPE MATERIAL, DIMENSIONS FROM THE STRUCTURE(S), RIGHTS-OF-WAYS, PROPERTY LINES,

- THE INSTALLATION OF "DANCER - OVERHEAD ELECTRIC LINES" SIGNS ARE RECOMMENDED IN THE AREA OF THE TRANSMISSION RIGHTS-OF-WAY. PLEASE REFERENCE THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT WWW.MUTCD.FHWA.DOT.GOV/ FOR APPROPRIATE SIGNS, ETC.
- DAMAGE TO ANY FIRSTENERGY FACILITIES DURING THE PROPOSED CONSTRUCTION MUST BE REPAIRED IMMEDIATELY TO THE CONTACT CENTER.

GENERAL NOTES		DRAWING NO.: C001	
DWG SCALE:		SHEET 2 OF 41	
DATE:		APRIL 2025	
PROJECT NO:		DRAWN BY:	
APPROVED BY:		CHECKED BY:	
353-024		BMJ	
RM		VMF	
MERCER NODE PROPERTY, LLC			
MERCER NODE DEVELOPMENT			
200-201 CLARK STREET			
CITY OF SHARON			
MERCER COUNTY, PA			



A:\300-2001\300-2001-0000\DWG\0101\30000-C402-C400-Overall\PCSD\eng\0101\LS\01\01\2026 - ending - Lr 9/16/2026 10:57 AM



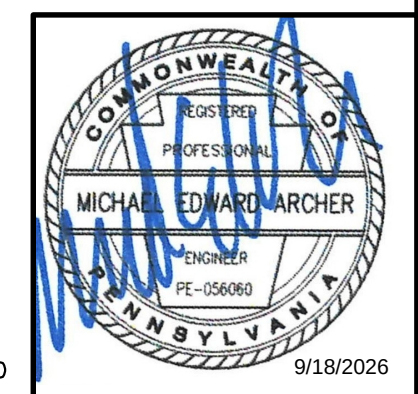
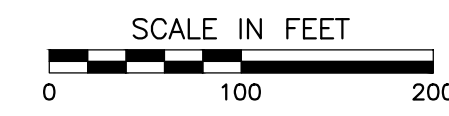
NOTES

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- THE DESIGNATED ENVIRONMENTAL REPRESENTATIVE MUST BE PRESENT DURING ALL DEWATERING ACTIVITIES AND DEWATERING TO BE COMPLETED PER THE APPROVED ONSITE MATERIALS MANAGEMENT PLAN, ENVIRONMENTAL COVENANT, AND CONSENT ORDER AGREEMENT.

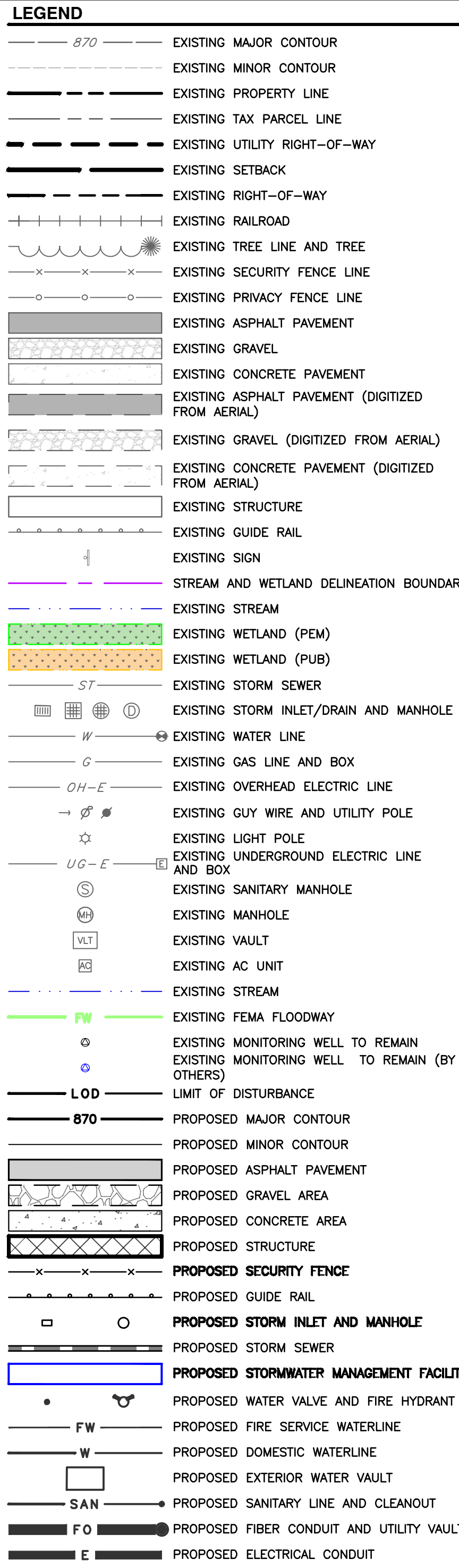
REFERENCES

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- SUBSTATION LAYOUT PROVIDED BY ASPLUNDH ENGINEERING SERVICES ON 02-4-2026.
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- AERIAL PHOTOGRAPHY PROVIDED BY GOOGLE EARTH, ACCESS THROUGH FROM PLEX EARTH ON 01/28/2026. DATE OF PHOTOGRAPHY 10-02-2024.
- APPROXIMATE GROUND WATER MONITORING WELL LOCATIONS ARE BASED ON THE DIGITIZATION OF AN EXHIBIT ISSUED BY ENVIRON 04/30/2014, AND FIELD SURVEY BY CEC IF ABOVE GROUND EVIDENCE WAS OBSERVED AND SHOULD NOT BE CONSIDERED ACCURATE.

LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING PROPERTY LINE
	EXISTING TAX PARCEL LINE
	EXISTING UTILITY RIGHT-OF-WAY
	EXISTING SETBACK
	EXISTING RIGHT-OF-WAY
	EXISTING RAILROAD
	EXISTING TREE LINE AND TREE
	EXISTING SECURITY FENCE LINE
	EXISTING PRIVACY FENCE LINE
	EXISTING ASPHALT PAVEMENT
	EXISTING GRAVEL
	EXISTING CONCRETE PAVEMENT
	EXISTING ASPHALT PAVEMENT (DIGITIZED FROM AERIAL)
	EXISTING GRAVEL (DIGITIZED FROM AERIAL)
	EXISTING CONCRETE PAVEMENT (DIGITIZED FROM AERIAL)
	EXISTING STRUCTURE
	EXISTING GUIDE RAIL
	EXISTING SIGN
	STREAM AND WETLAND DELINEATION BOUNDARY
	EXISTING STREAM
	EXISTING WETLAND (PEM)
	EXISTING WETLAND (PUB)
	EXISTING STORM SEWER
	EXISTING STORM INLET/DRAIN AND MANHOLE
	EXISTING WATER LINE
	EXISTING GAS LINE AND BOX
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING GUY WIRE AND UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING UNDERGROUND ELECTRIC LINE AND BOX
	EXISTING SANITARY MANHOLE
	EXISTING MANHOLE
	EXISTING VAULT
	EXISTING AC UNIT
	EXISTING STREAM
	EXISTING FEMA FLOODWAY
	EXISTING MONITORING WELL TO REMAIN (BY OTHERS)
	LIMIT OF DISTURBANCE
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED ASPHALT PAVEMENT
	PROPOSED GRAVEL AREA
	PROPOSED CONCRETE AREA
	PROPOSED BUILDING
	PROPOSED SECURITY FENCE
	PROPOSED GUIDE RAIL
	PROPOSED STORM INLET AND MANHOLE
	PROPOSED STORM SEWER
	PROPOSED STORMWATER MANAGEMENT FACILITY
	LIMITS OF PHASE 1
	LIMITS OF PHASE 2
	LIMITS OF PHASE 3
	PROPOSED WATER VALVE AND FIRE HYDRANT
	PROPOSED FIRE SERVICE WATERLINE
	PROPOSED DOMESTIC WATERLINE
	PROPOSED EXTERIOR WATER VAULT
	PROPOSED SANITARY LINE AND CLEANOUT
	PROPOSED FIBER CONDUIT AND UTILITY VAULT
	PROPOSED ELECTRICAL CONDUIT



REVISION RECORD	
NO.	DATE
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2	04/03/2026
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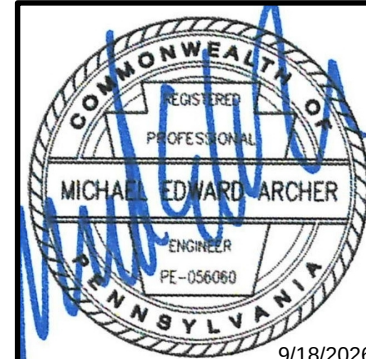
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2. FROM THE NORTH CORNER ON PENNSYLVANIA STATE PLAN NAD83-2011, NORTH ZONE, AS DETERMINED BY CEC USING SURVEY GRADE GPS MEASUREMENTS AND OPUS POST-PROCESSING.
3. VERTICAL DATUM IS BASED ON NAVD88 (GEOID 18), AS DETERMINED BY CEC USING SURVEY GRADE GPS MEASUREMENTS AND OPUS POST-PROCESSING.
4. STREAM AND WETLAND DELINEATION PERFORMED BY CEC ON 07-11-2025.
5. PROPERTY IS LOCATED IN FLOOD ZONE 2 (AREA OF MINOR) AS DEPICTED ON FLOOD INSURANCE RATE MAP #42085C03070, EFFECTIVE DATE 06-09-2014, MERCER COUNTY, PENNSYLVANIA; THIS STATEMENT DOES NOT GUARANTEE THAT THE SUBJECT PROPERTY WILL OR WILL NOT FLOOD.
6. EXISTING CONTOURS ARE DERIVED FROM PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) 2 AND 10 CONTOURS DATED 2006-2008.
7. SUBSTATION LAYOUT PROVIDED BY ASPHLUND ENGINEERING SERVICES ON 02-4-2026.
8. CLARK STREET IS A PADOT STREET PER MERCER COUNTY 10 MAP PREPARED BY THE PADOT DATED 2024.
9. AERIAL PHOTOGRAPHY PROVIDED BY GOOGLE EARTH, ACCESS THROUGH FROM PLEX EARTH ON 01/28/2026. DATE OF PHOTOGRAPHY 10-02-2024.
10. DATE OF GROUND WATER MONITORING WELL LOCATIONS ARE BASED ON THE DIGITIZATION OF AN EXHIBIT ISSUED BY ENVIRON 04/30/2014, AND FIELD SURVEY BY CEC IF ABOVE GROUND EVIDENCE WAS OBSERVED AND SHOULD NOT BE CONSIDERED ACCURATE.

SCALE IN FEET



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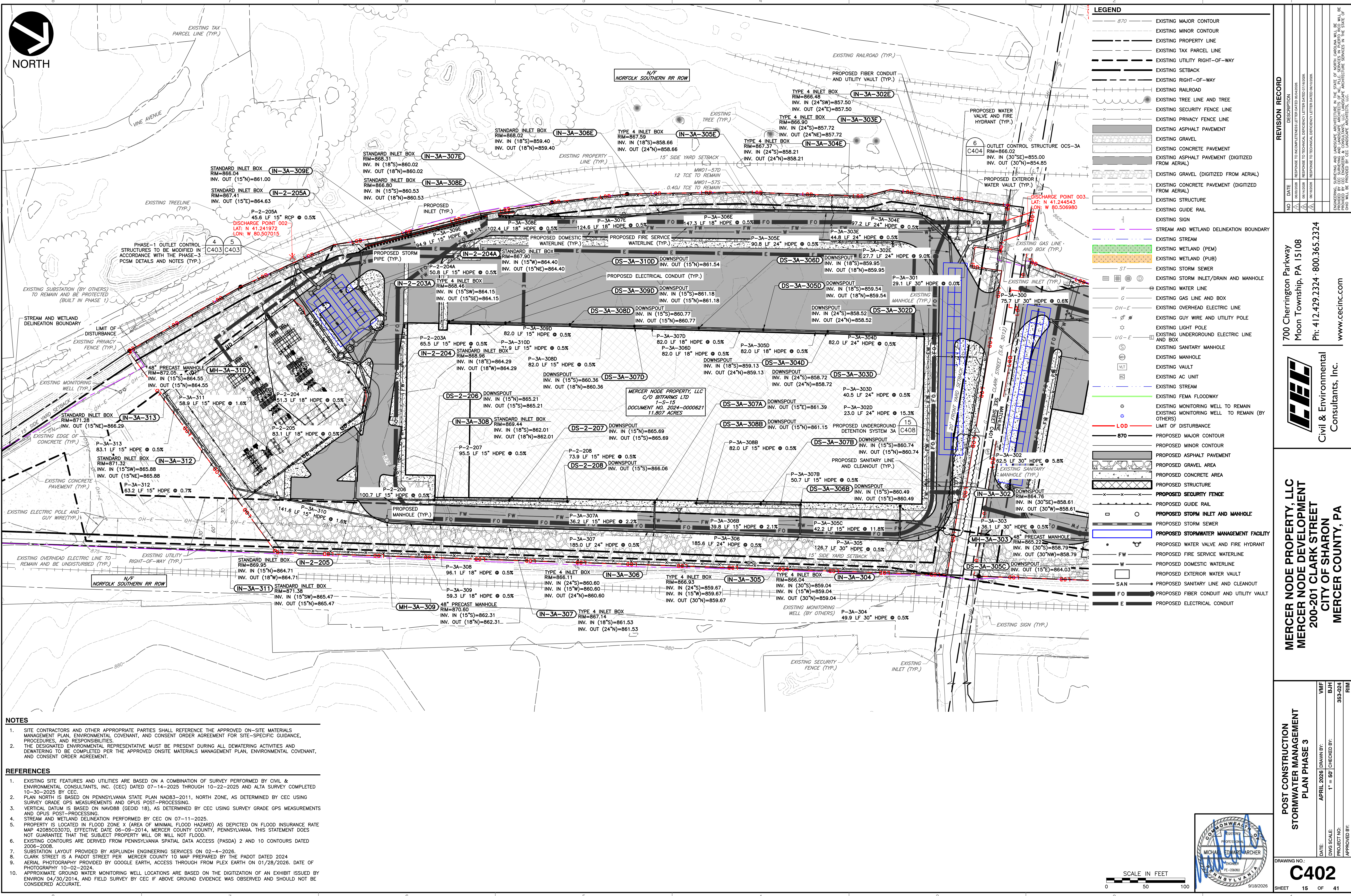


POST CONSTRUCTION STORMWATER MANAGEMENT PLAN PHASE 2		DATE: APRIL 2025 DRAWN BY: VMF	
DWG SCALE:		AS SHOWN CHECKED BY: BJH	
PROJECT NO:		353-024	
APPROVED BY:		RIM	
DRAWING NO: C401			
SHEET 14 OF 41			

700 Cherrington Parkway Moon Township, PA 15108 Ph: 412.429.2324 • 800.365.2324 www.cecinc.com		 Civil & Environmental Consultants, Inc.	
MERCER NODE PROPERTY, LLC MERCER NODE DEVELOPMENT 200-201 CLARK STREET CITY OF SHARON MERCER COUNTY, PA			

NO DATE DESCRIPTION	
1 04/20/2025 RESPONSE TO SCHEMATIC REVIEW FROM THE OWNER	
2 04/20/2025 RESPONSE TO TECHNICAL DISCUSSION FROM THE OWNER	
3 04/20/2025 RESPONSE TO TECHNICAL DISCUSSION LETTER DATED 04/20/2025	

ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEC SURVEYING AND LANDSCAPE ARCHITECTS OF N.C., PLLC. SERVICES IN OTHER STATES WILL BE PROVIDED BY CEC SURVEYING AND LANDSCAPE ARCHITECTS OF N.C., PLLC. SERVICES IN OTHER STATES WILL BE PROVIDED BY CEC SURVEYING AND LANDSCAPE ARCHITECTS, LLC.



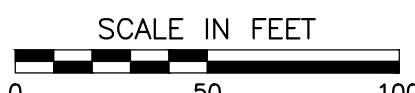
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 - PROPERTY IS LOCATED IN FLOOD ZONE X (AREA OF MINIMAL FLOOD HAZARD) AS DEPICTED ON FLOOD INSURANCE RATE MAP 42085C0307D, EFFECTIVE DATE 06-09-2014, MERCER COUNTY COUNTY, PENNSYLVANIA. THIS STATEMENT DOES NOT GUARANTEE THAT THE SUBJECT PROPERTY WILL OR WILL NOT FLOOD.
 - EXISTING CONTOURS ARE DERIVED FROM PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) 2 AND 10 CONTOURS DATED 2006-2008.
 - SUBSTATION LAYOUT PROVIDED BY ASPLUNDH ENGINEERING SERVICES ON 02-4-2026.
 - CLARK STREET IS A PADOT STREET PER MERCER COUNTY 10 MAP PREPARED BY THE PADOT DATED 2024.
 - AERIAL PHOTOGRAPHY PROVIDED BY GOOGLE EARTH, ACCESS THROUGH FROM PLEX EARTH ON 01/28/2026. DATE OF PHOTOGRAPHY 10-02-2024.
 - APPROXIMATE GROUND WATER MONITORING WELL LOCATIONS ARE BASED ON THE DIGITIZATION OF AN EXHIBIT ISSUED BY ENVIRON 04/30/2014, AND FIELD SURVEY BY CEC IF ABOVE GROUND EVIDENCE WAS OBSERVED AND SHOULD NOT BE CONSIDERED ACCURATE.

LEGEND

- 870 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING PROPERTY LINE
- EXISTING TAX PARCEL LINE
- EXISTING UTILITY RIGHT-OF-WAY
- EXISTING SETBACK
- EXISTING RIGHT-OF-WAY
- EXISTING RAILROAD
- EXISTING TREE LINE AND TREE
- EXISTING SECURITY FENCE LINE
- EXISTING PRIVACY FENCE LINE
- EXISTING ASPHALT PAVEMENT
- EXISTING GRAVEL
- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALT PAVEMENT (DIGITIZED FROM AERIAL)
- EXISTING GRAVEL (DIGITIZED FROM AERIAL)
- EXISTING CONCRETE PAVEMENT (DIGITIZED FROM AERIAL)
- EXISTING STRUCTURE
- EXISTING GUIDE RAIL
- EXISTING SIGN
- STREAM AND WETLAND DELINEATION BOUNDARY
- EXISTING STREAM
- EXISTING WETLAND (PEM)
- EXISTING WETLAND (PUB)
- EXISTING STORM SEWER
- EXISTING STORM INLET/RAIN AND MANHOLE
- EXISTING WATER LINE
- EXISTING GAS LINE AND BOX
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING GUY WIRE AND UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING UNDERGROUND ELECTRIC LINE AND BOX
- EXISTING SANITARY MANHOLE
- EXISTING MANHOLE
- EXISTING VAULT
- EXISTING AC UNIT
- EXISTING STREAM
- EXISTING FEMA FLOODWAY
- EXISTING MONITORING WELL TO REMAIN
- EXISTING MONITORING WELL TO REMAIN (BY OTHERS)
- LOD LIMIT OF DISTURBANCE
- 870 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED ASPHALT PAVEMENT
- PROPOSED GRAVEL AREA
- PROPOSED CONCRETE AREA
- PROPOSED STRUCTURE
- PROPOSED SECURITY FENCE
- PROPOSED GUIDE RAIL
- PROPOSED STORMWATER MANAGEMENT FACILITY
- PROPOSED STORM SEWER
- PROPOSED STORM INLET AND MANHOLE
- PROPOSED WATER VALVE AND FIRE HYDRANT
- PROPOSED FIRE SERVICE WATERLINE
- PROPOSED DOMESTIC WATERLINE
- PROPOSED EXTERIOR WATER VAULT
- SAN PROPOSED SANITARY LINE AND CLEANOUT
- FO PROPOSED FIBER CONDUIT AND UTILITY VAULT
- E PROPOSED ELECTRICAL CONDUIT



REVISION RECORD

NO.	DATE	DESCRIPTION
1	04/03/2026	RESPONSE TO INCOMPLETE LETTER DATED 07/16/2024
2	04/03/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2024
3	04/03/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2024

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN PHASE 3

**MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

C402

**700 Cherrington Parkway
Moon Township, PA 15108
Ph: 412.429.2324 • 800.365.2324
www.cecinc.com**

Civil & Environmental Consultants, Inc.

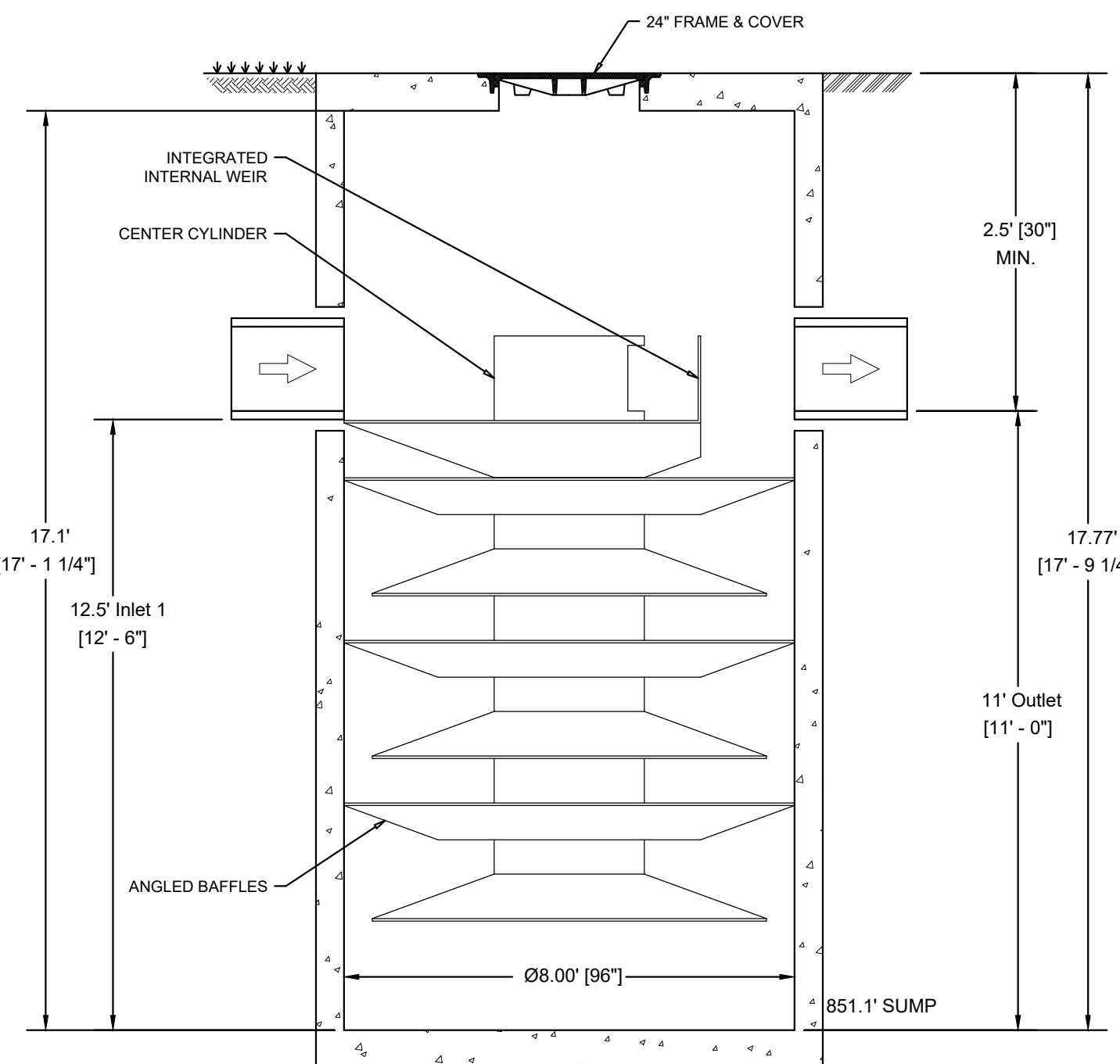
DATE: APRIL 2026 **DRAWN BY:** VMF **CHECKED BY:** BJH **PROJECT NO.:** 353-024 **APPROVED BY:** RIM

9/18/2026

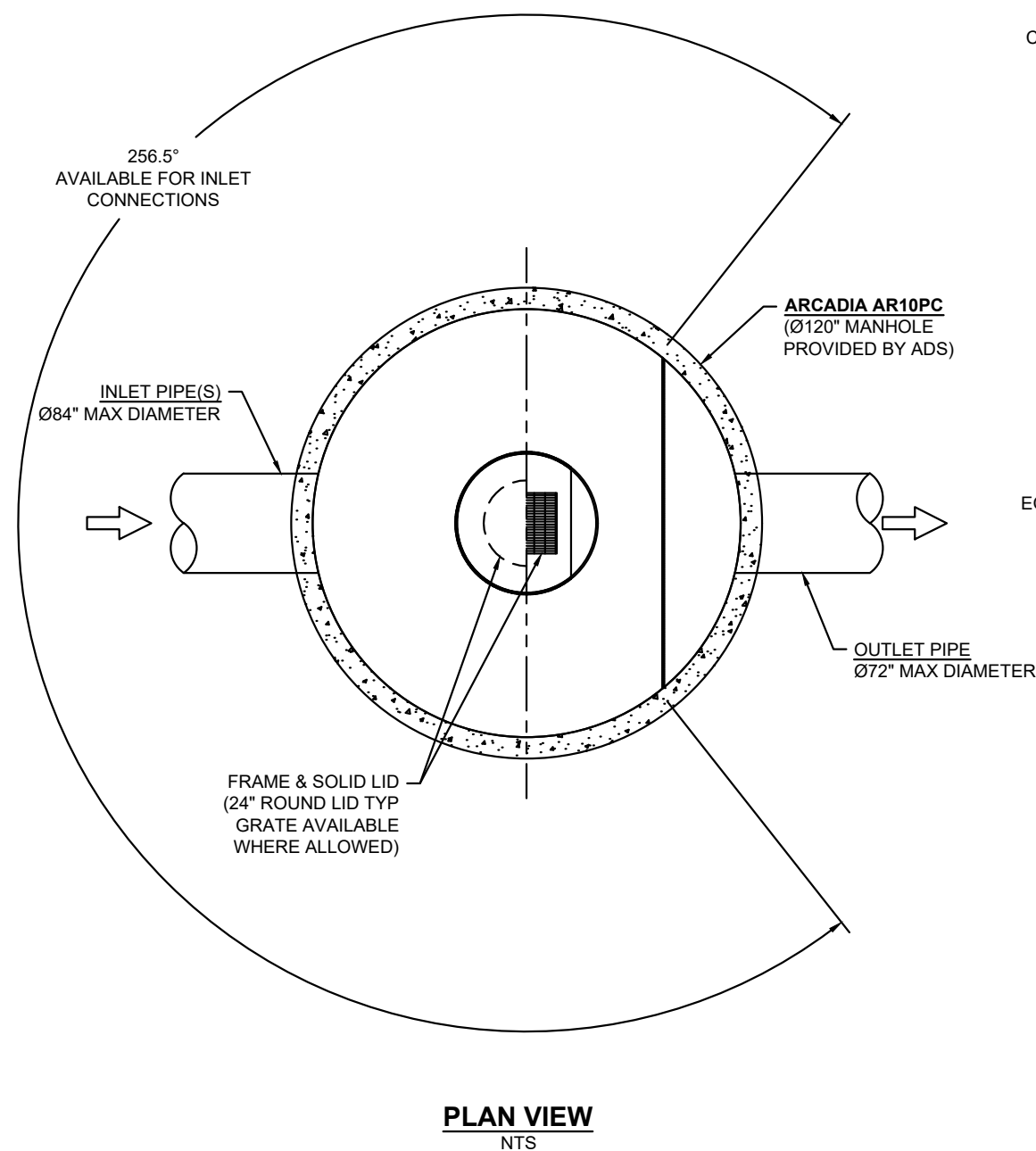
ARCADIA AR8					WQU-1
NUDEP		MAXIMUM TREATMENT RATE			6.72 CFS
BYPASS RATE		6.77 CFS	RIM ELEVATION ±		868.87'
DIAMETER		ANGLE	TYPE	INVERT	
INLET	1	36"	180°	HDPE	863.6'
	2	-	-	-	-
	3	-	-	-	-
OUTLET	36"	0°	HDPE	862.1'	
SUMP ELEVATION				851.1'	

PRODUCT SPECIFICATIONS

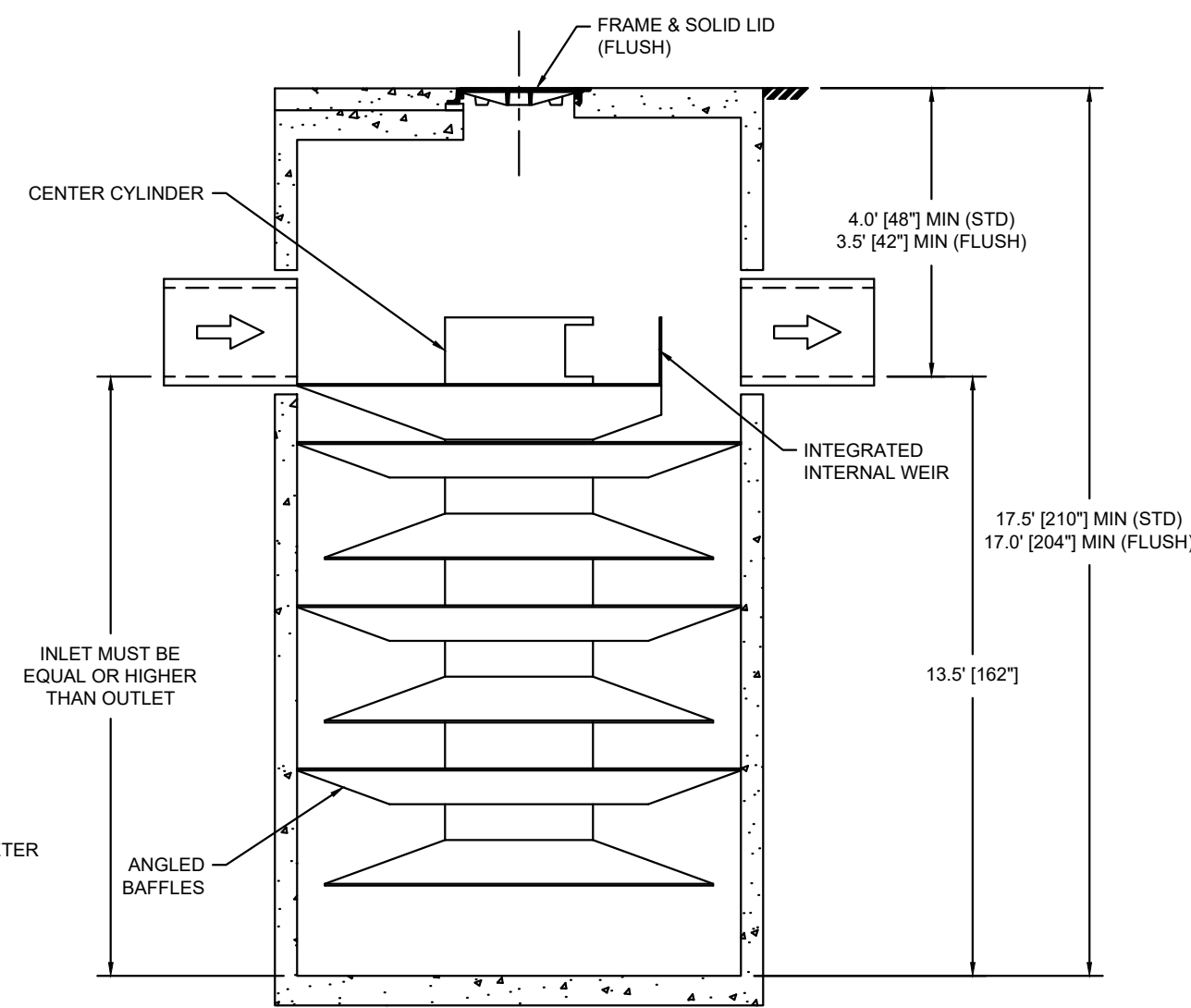
- THE STORMWATER TREATMENT UNIT SHALL BE AN INLINE UNIT CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW. IF PEAK FLOW RATES EXCEED MAXIMUM HYDRAULIC RATE, THE UNIT SHALL BE INSTALLED OFFLINE.
- THE ARCADIA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS ON AN ANNUAL AGGREGATE REMOVAL BASIS. SAID REMOVAL SHALL BE BASED ON FULL-SCALE THIRD PARTY VERIFIED TESTING USING 0K-100 MICRON GRADATION OR EQUIVALENT AND 300 MG/L INFLUENT CONCENTRATION. FULL SCALE TESTING SHALL HAVE INCLUDED SENSITIVE CAPTURE BASED ON ACTUAL, TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT.
- OR-
- THE ARCADIA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS USING A MEDIA MIX WITH D50=75 MICRON AND 200 MG/L INFLUENT CONCENTRATION PER CURRENT NJDEP/ACNJ HAS PROTOCOL.



PROFILE VIEW
NTS



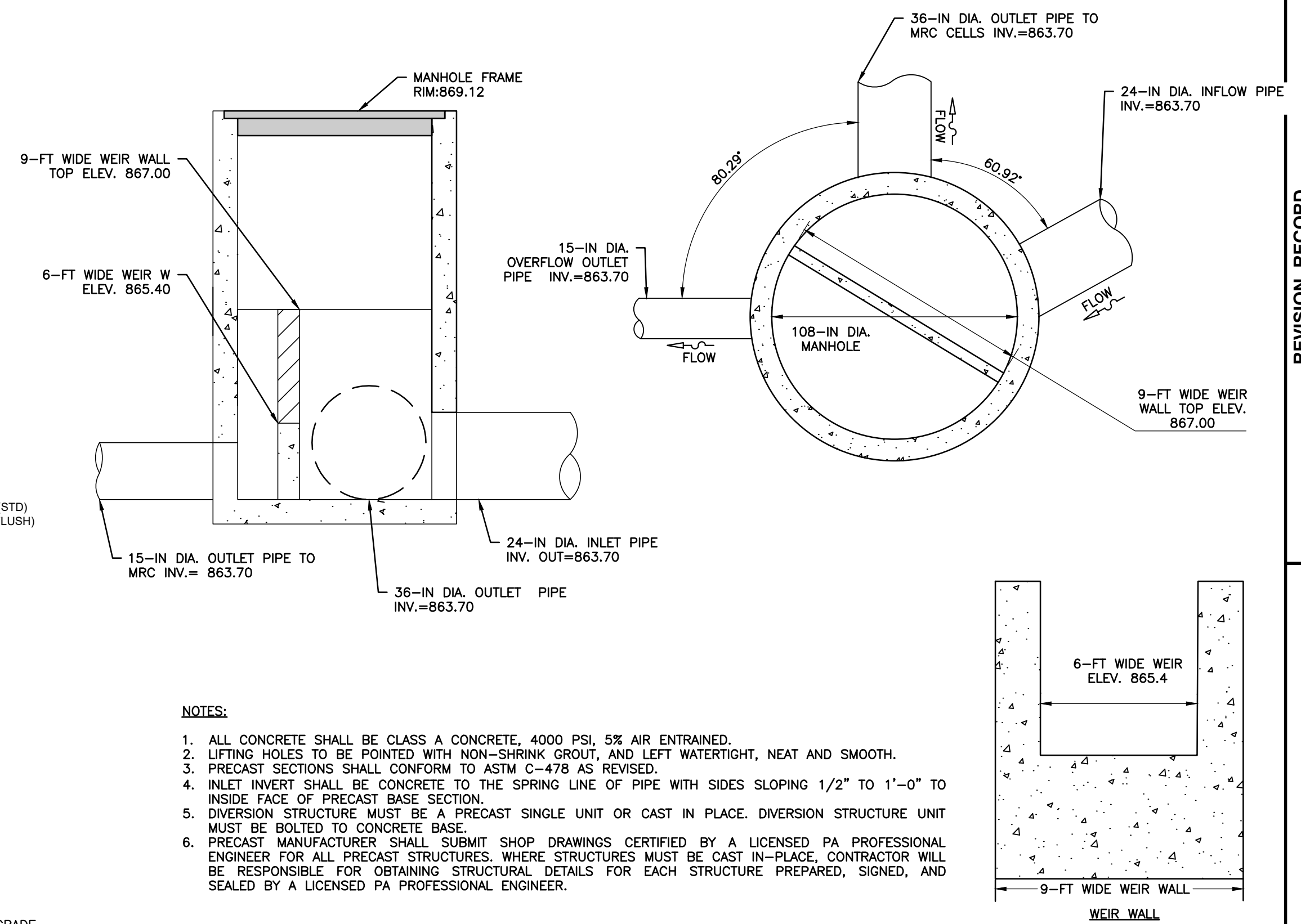
PLAN VIEW
NTS



PROFILE VIEW
NTS

NOTES:

1. ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIALS AND APPLICABLE ADAPTERS.
2. CONTRACTOR IS RESPONSIBLE FOR MATERIAL AND LABOR TO BRING CASTINGS TO FINISHED GRADE.
3. CONTRACTOR TO MEASURE HEIGHT OF STRUCTURE TO ENSURE THAT DEPTH OF EXCAVATION IS CORRECT.
4. UNIT SHALL CONFORM TO HS20-44 LOAD RATINGS.

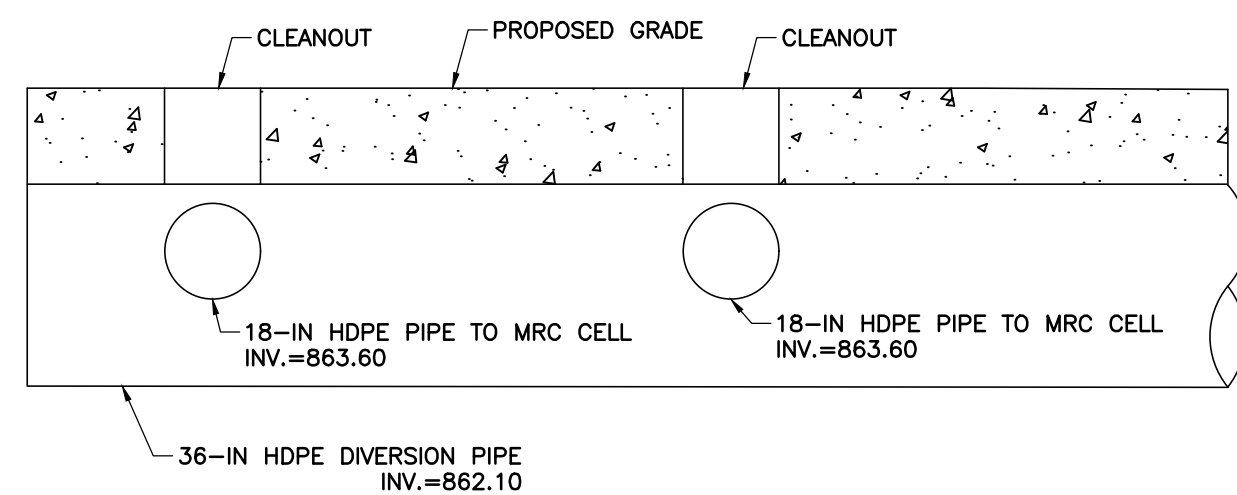


NOTES:

1. ALL CONCRETE SHALL BE CLASS A CONCRETE, 4000 PSI, 5% AIR ENTRAINED.
2. LIFTING HOLES TO BE POINTED WITH NON-SHRINK GROUT, AND LEFT WATERIGHT, NEAT AND SMOOTH.
3. PRECAST SECTIONS SHALL CONFORM TO ASTM C-478 AS REVISED.
4. INLET INVERT SHALL BE 1/2" BELOW THE SPRING LINE OF PIPE WITH SIDES SLOPING 1/2" TO 1"-0" TO INSIDE FACE OF PRECAST BASE SECTION.
5. DIVERSION STRUCTURE MUST BE A PRECAST SINGLE UNIT OR CAST IN PLACE. DIVERSION STRUCTURE UNIT SHALL BE BOLTED TO EXISTING STRUCTURE.
6. PRECAST MANUFACTURER SHALL SUBMIT SHOP DRAWINGS CERTIFIED BY A LICENSED PA PROFESSIONAL ENGINEER FOR ALL PRECAST STRUCTURES. WHERE STRUCTURES MUST BE CAST IN-PLACE, CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR EACH STRUCTURE PREPARED, SIGNED, AND SEALED BY A LICENSED PA PROFESSIONAL ENGINEER.

DETAIL 2
DIVERSION STRUCTURE
DS-2-201

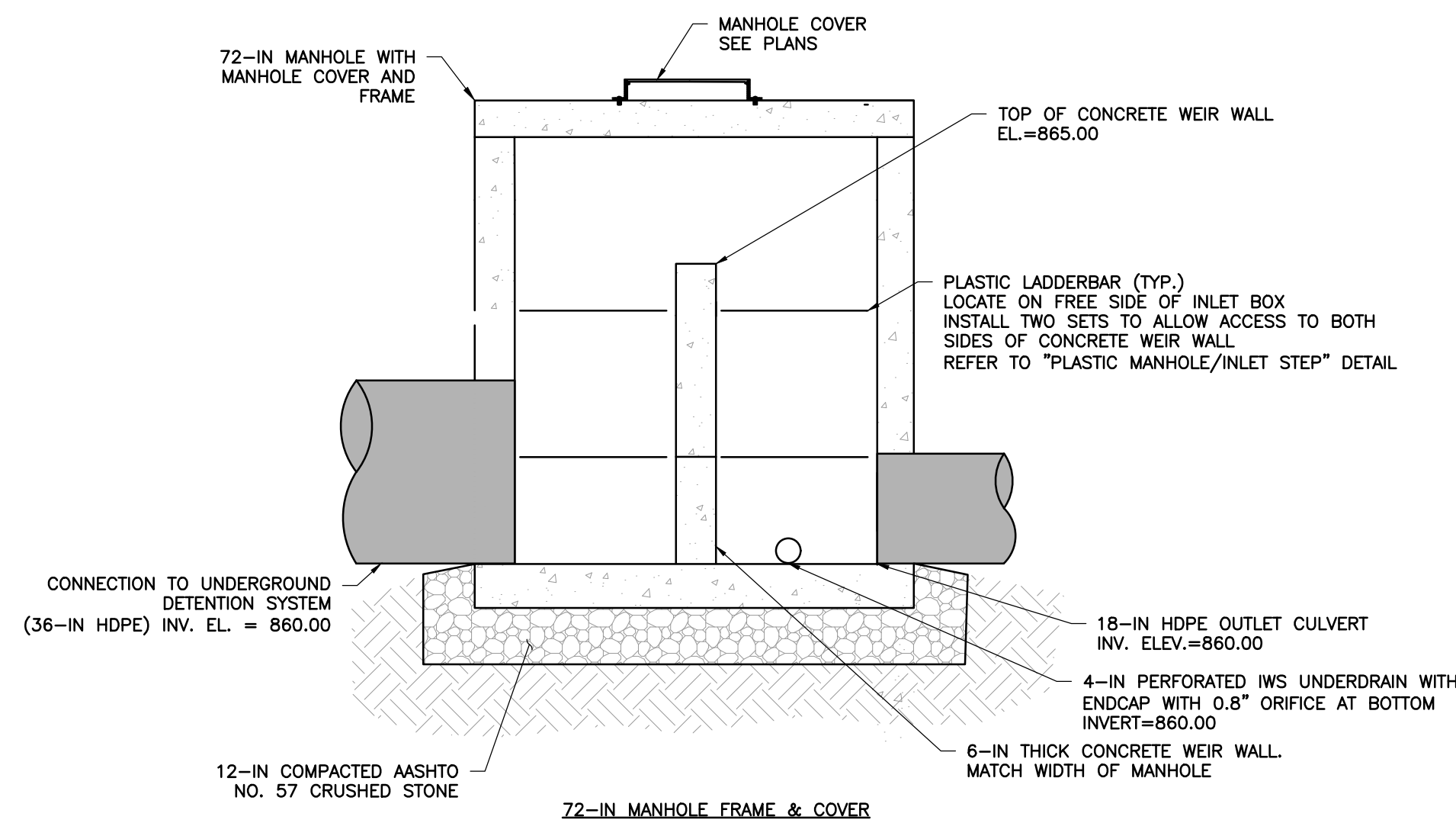
N.T.S.



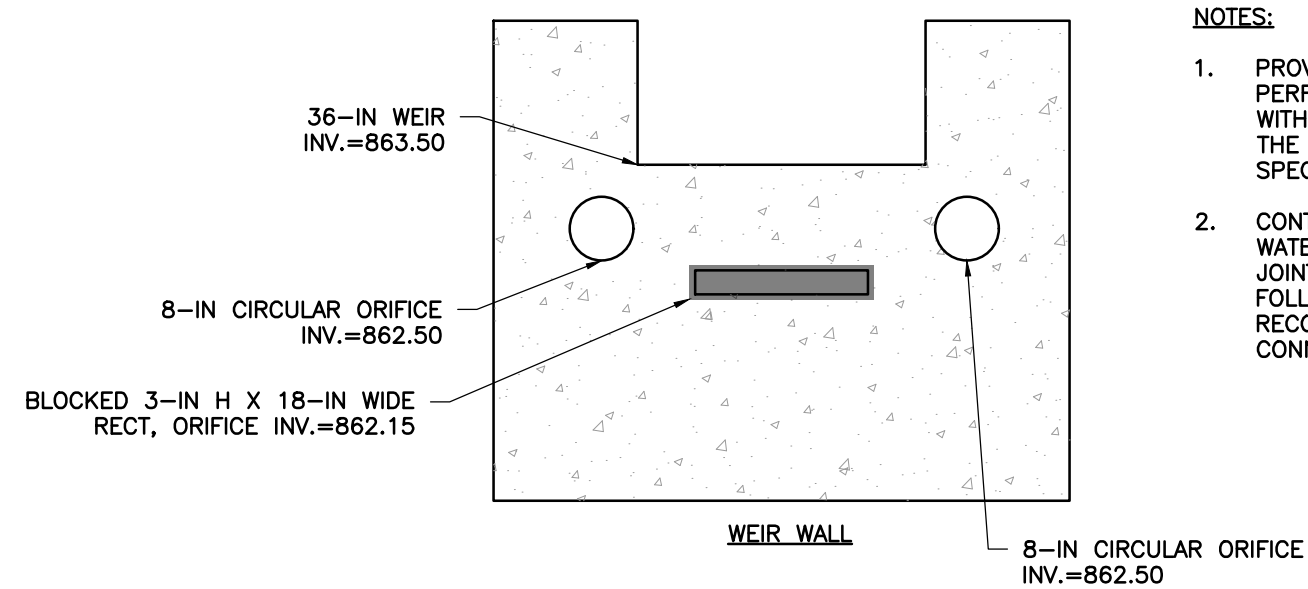
ELEVATION VIEW

DETAIL 3 DIVERSION PIPE SYSTEM FS-2A | 2B

N.T.S.



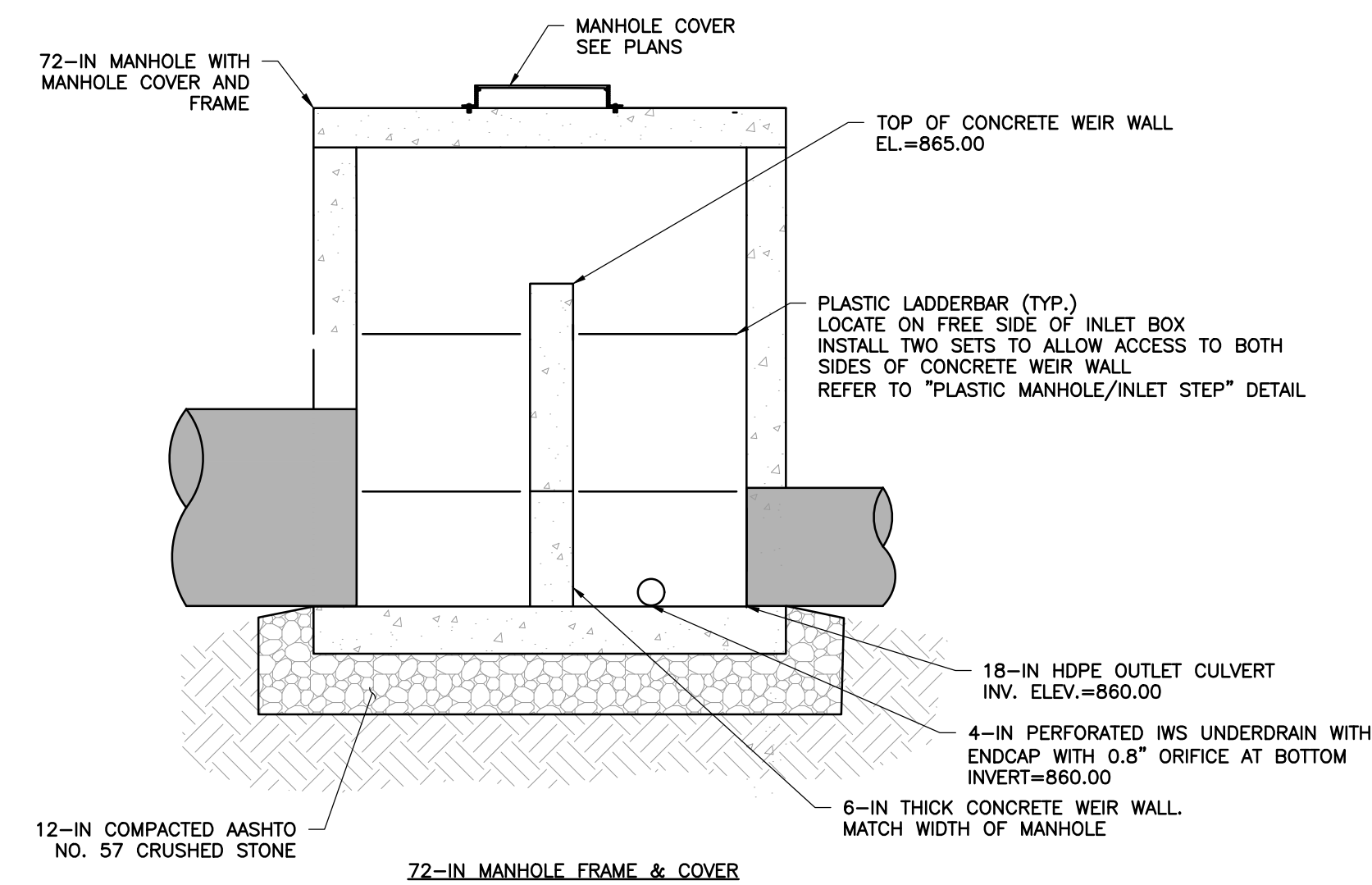
72-IN MANHOLE FRAME & COVER



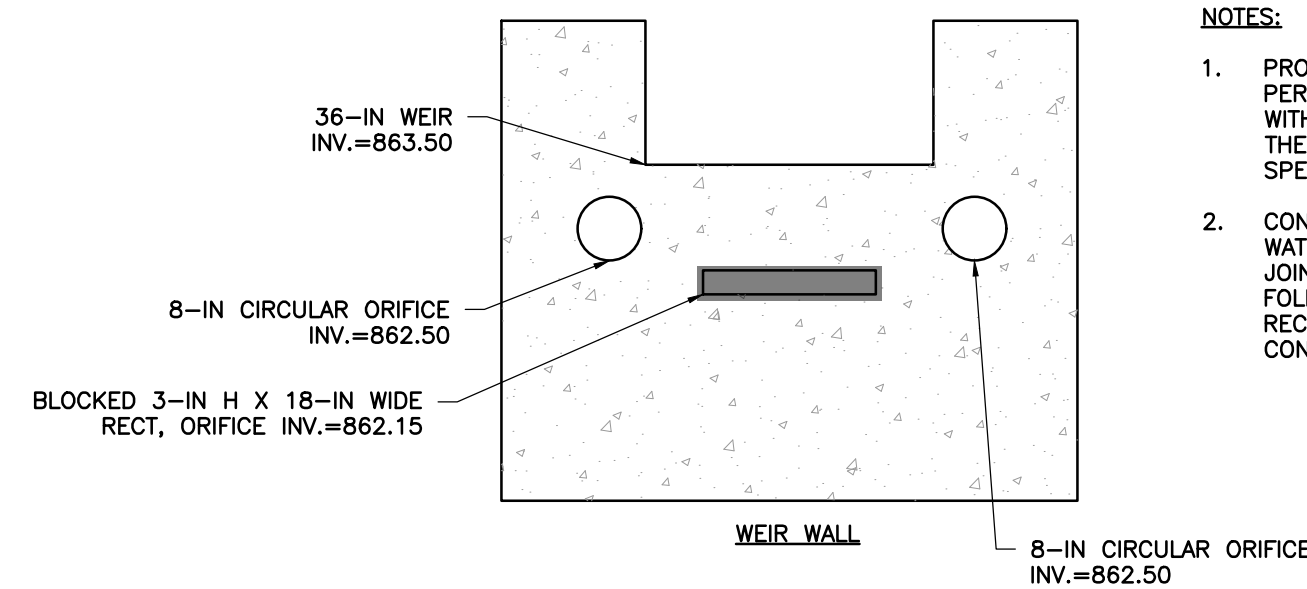
WEIR WALL

8-IN CIRCULAR ORIFICE
INV.=862.50

DETAIL 4
UNDERGROUND DETENTION SYSTEM 2A OUTLET
CONTROL STRUCTURE
(OCS-2A)
NOT TO SCALE



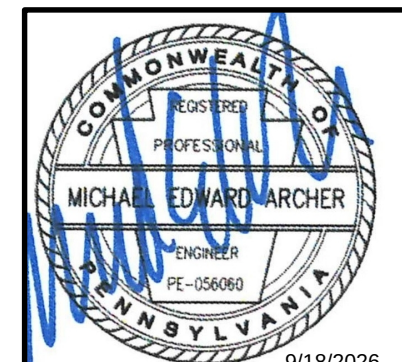
72-IN MANHOLE FRAME & COVER



WEIR WALL

— 8-IN CIRCULAR ORIFICE
INV.=862.50

DETAIL 5
UNDERGROUND DETENTION SYSTEM 2B OUTLET
CONTROL STRUCTURE
(OCS-2B)
NOT TO SCALE



NO	DATE	DESCRIPTION
1	08/03/2008	RESPONSE TO INCOMPLETENESS LETTER DATED 05/04/2008
2	08/14/2008	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2008
3	09/18/2008	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 09/10/2008

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**MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS

DATE:	APRIL 2026	DRAWN BY:	VMF
DWG SCALE:	AS SHOWN	CHECKED BY:	BUH
PROJECT NO:	353-024		
APPROVED BY:	RIM		

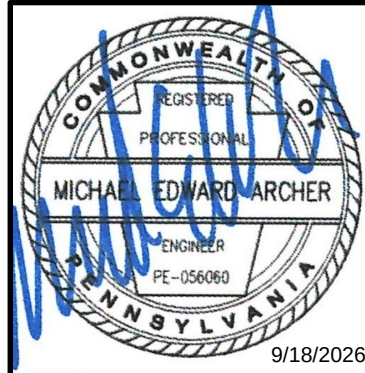
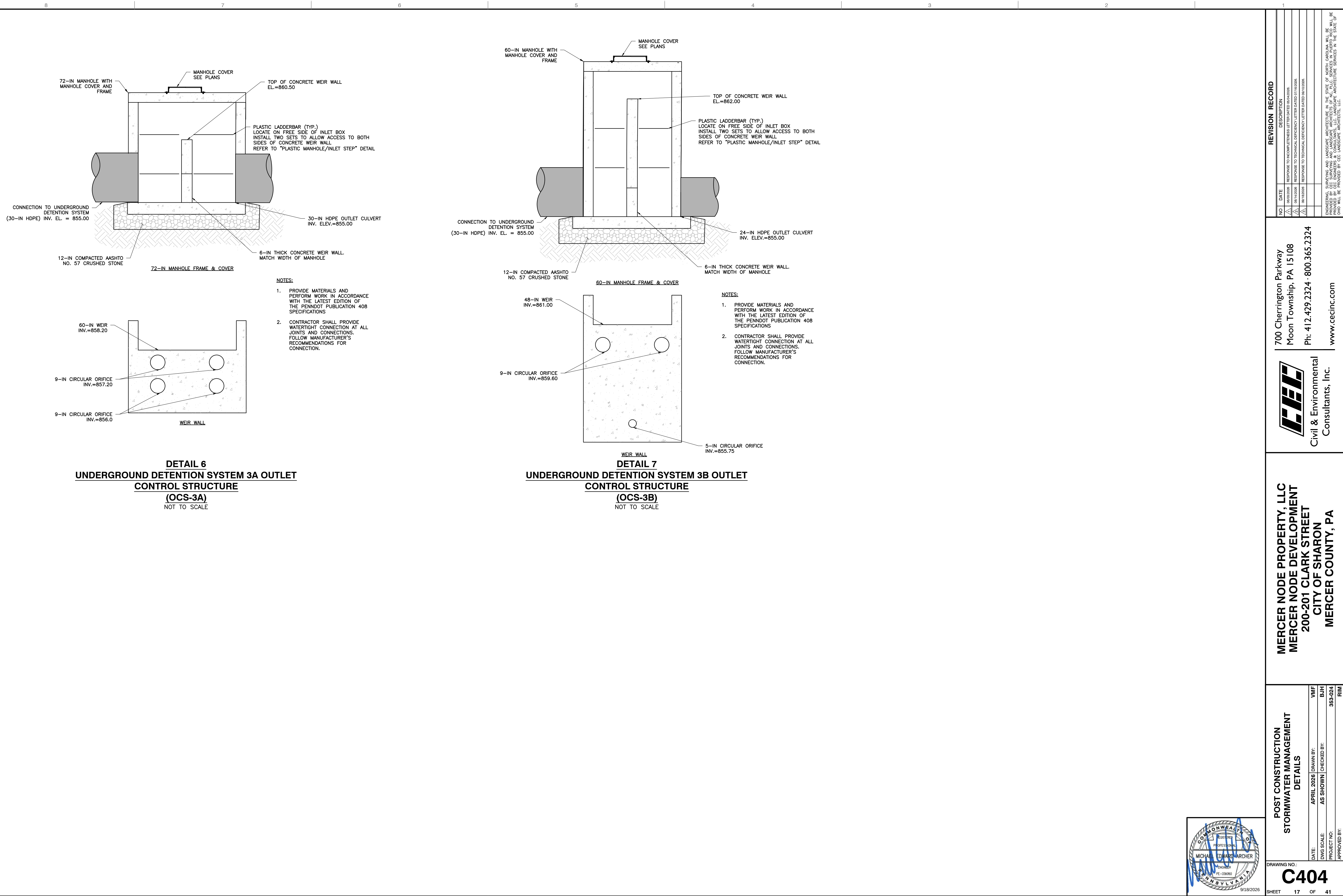
ING NO.:
C403

P: |350-000|353-024|-C400|Dwg|C102|353024-CV02-PCSM UND Details.dwg|C403|LS:18/12/2028 - ehelbling) - LP: 9/16/2028 10:49 AM

9/18/2026

SHEET 16 OF 41

A:\300-2001\352-2041-C400\Draw\1353004-C402-C405-PCSU AND Details.dwg(10/4/15/8/12/2026 - ehabib) - LP: 9/16/2026 10:49 AM



POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS		DATE: APRIL 2026	DRAWN BY: VMF
		AS SHOWN	CHECKED BY: BJH
		PROJECT NO: 353-024	DATE: 9/16/2026
		APPROVED BY: RIM	

MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA



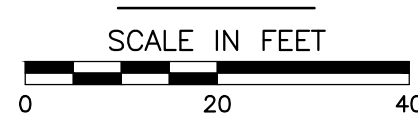
Civil & Environmental
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REVISION RECORD	
NO.	DESCRIPTION
1	RESPONSE TO INCOMPLETE LETTER DATED 06/16/2026
2	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2026
3	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 08/16/2026



PLAN VIEW



GENERAL NOTES:

1. STRUCTURE PROXIMITY LOADING DISCLAIMER:

STORMTARF MODULES AND FOUNDATION ARE NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADING FROM ANY NEARBY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTARF. EXAMPLES OF NEARBY STRUCTURES MAY INCLUDE BUT ARE NOT LIMITED TO BUILDINGS, FOUNDATION ELEMENTS, RETAINING WALLS, LIGHT POLES, BOLLARDS, SIGNPOSTS, FENCES. ADDITIONALLY, STORMTARF IS NOT RESPONSIBLE FOR INSTALLATION CONFLICTS ARISING FROM ANY OF THESE NEARBY STRUCTURES. IF ADDITIONAL LOADING CONSIDERATIONS ARE REQUIRED FOR STRUCTURAL DESIGN OF STORMTARF, PLEASE CONTACT STORMTARF IMMEDIATELY. FOR LIGHT POLES SHOWN OVER THE TOP OF THE SYSTEM, STORMTARF WILL PROVIDE A 5'-0" LATERAL DISTANCE CAVITY AROUND THE LIGHT POLE TO ACCOMMODATE IT. THE EOR TO TAKE RESPONSIBILITY FOR ENSURING THE LIGHT POLE IS NOT INFLECTING ANY LOADING ON THE STORMTARF MODULES AND FOUNDATION.

2. TREE LOADING DISCLAIMER:

THE NUMBER OF TREES OR WEIGHT OF TOTAL PLANT MATERIAL PRESENT ON TOP OF A SINGLE STORMTAPR MODULE SHALL NOT EXCEED 16,000 LBS. THE REQUIREMENTS LISTED HERE APPLY AT BOTH THE TIME OF INSTALLATION AND FOR THE LIFE OF THE TREES AND PLANTS IN QUESTION. THE EOR AND LANDSCAPE ARCHITECT ARE RESPONSIBLE FOR ENSURING THAT TREE AND OTHER PLANT ROOTS DO NOT INTERFERE WITH OR COMPROMISE THE FUNCTIONAL AND STRUCTURAL INTEGRITY OF STORMTAPR'S UNDERGROUND MODULES. APPROPRIATE MEASURES SHOULD BE TAKEN TO PREVENT ROOT GROWTH INTO THE STORMTAPR SYSTEM FROM ADJACENT OR OVERHEAD TREES. FURTHERMORE, THE ROOTS OF THE TREES MUST BE CONTAINED TO PREVENT FUTURE DAMAGE TO THE STORMTAPR SYSTEM. STORMTAPR ACCEPTS NO LIABILITY FOR DAMAGES CAUSED BY TREES OR OTHER VEGETATION PLACED AROUND OR ON TOP OF THE SYSTEM.

3. PRE-TREATMENT/SEDIMENT/FILTER CHAMBER DISCLAIMER:

FOR SYSTEMS CONTAINING PRE-TREATMENT, SEDIMENTATION AND/OR FILTER CHAMBERS; IF REQUIRED TO BE SEALED TO PREVENT SAND AND/OR PRE-TREATED WATER FROM MIGRATING INTO ADJOINING MODULES, IT IS THE SOLE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT THOSE MODULES ARE SEALED.

4. OUTLET CONTROL STRUCTURE DISCLAIMER (IF SHOWN ON THESE PLANS):

IF A WATERTIGHT SOLUTION IS REQUIRED FOR AN OUTLET CONTROL STRUCTURE, ALL EXTERIOR COLD JOINTS, INCLUDING JOINT BETWEEN TOP AND BASE MODULES, BETWEEN TOP AND BASE OF ADJOINING SYMONS WALLS, AND JOINTS BETWEEN MODULES AND ADJACENT END PANELS WILL BE THE SOLE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO PROVIDE AND INSTALL THE WATERTIGHT APPLICATION PER THE EOR'S SPECIFICATION.

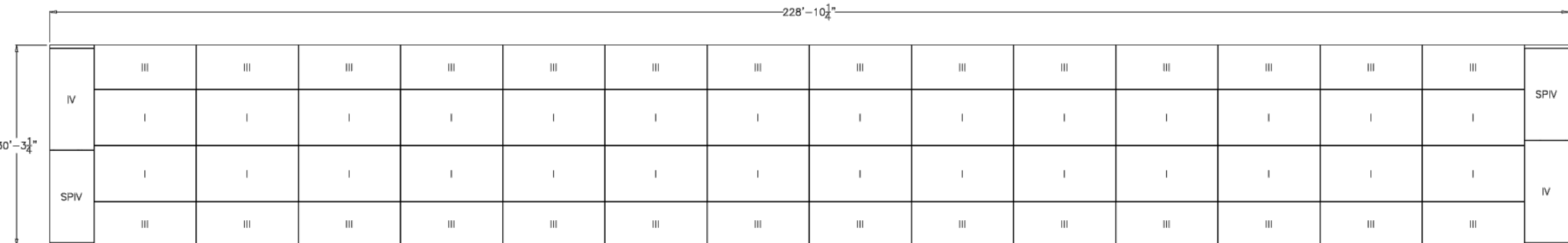
BILL OF MATERIALS			
QTY.	UNIT	DESCRIPTION	WEIGHT
28	I	6'-0" SINGLETRAP	18050
0	II	6'-0" SINGLETRAP	—
28	III	6'-0" SINGLETRAP	18910
2	IV	6'-0" SINGLETRAP	20589
0	V	6'-0" SINGLETRAP	—
0	VI-1	6'-0" SINGLETRAP	—
0	VII-2	6'-0" SINGLETRAP	—
0	VII-4	6'-0" SINGLETRAP	—
0	VII-4	6'-0" SINGLETRAP	—
0	SPHII	6'-0" SINGLETRAP	VARIABLE
0	SPHII	6'-0" SINGLETRAP	VARIABLE
0	T2 PANEL	6" THICK PANEL	—
4	T4 PANEL	6" THICK PANEL	\$2350
0	T7 PANEL	6" THICK PANEL	—
12	JOINTWTRAP	150' PER ROLL	—
40	JOINTWTRAP	14.5' PER ROLL	—
TOTAL PICKS =		60	
TOTAL PANELS =		4	
HEAVIEST PICK WEIGHT = 20,589			

DESIGN CRITERIA

ALLOWABLE MAX GRADE = 863.25'
ALLOWABLE MIN GRADE = 863.25'
INSIDE HEIGHT ELEVATION = 861.75
SYSTEM INVERT = 855.75'

NOTES:

1. DIMENSIONING OF STORMTRAP SYSTEM SHOWN BELOW ALLOW FOR A 3/4" GAP BETWEEN EACH MODULE.
2. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
3. SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.
4. SP - INDICATES A MODULE WITH MODIFICATIONS.
5. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
6. CONTRACTORS RESPONSIBILITY TO INSURE CONSISTENCY/ACCURACY TO FINAL ENGINEER OF RECORD PLAN SET.
7. IN ORDER FOR STORMTRAP TO GENERATE APPROVAL DRAWINGS, CIVIL ENGINEERING DRAWINGS MUST BE PROVIDED TO STORMTRAP AND SHALL INCLUDE ALL PIPE SIZES, PIPE MATERIAL, PIPE INVERT ELEVATIONS, ACCESS OPENING SIZE AND SHAPE. IN ADDITION FINAL GRADING PLANS SHALL INCLUDE MINIMUM AND MAXIMUM GRADES OVER THE TOP OF THE STORMTRAP SYSTEM.

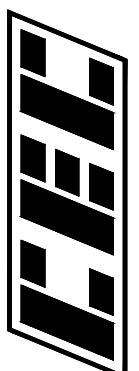


DETAIL 8
UNDERGROUND DETENTION SYSTEM 3B
STORM TRAP SYSTEM
NOT TO SCALE



REVISION RECORD	
NO	DATE DESCRIPTION
1	RESPONSE TO OWNER REQUEST FOR INFORMATION
2	RESPONSE TO OWNER REQUEST FOR INFORMATION
3	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 01/14/2008
4	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 01/14/2008
ENGINEERING AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEC SHARPARD AND LANDSCAPE ARCHITECTS OF P.C., INC. (CEC SLA). THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEC SHARPARD AND LANDSCAPE ARCHITECTS OF P.C., INC. (CEC SLA). THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEC SHARPARD AND LANDSCAPE ARCHITECTS OF P.C., INC. (CEC SLA).	

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**MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS

DRAWING NO.:
C405
SHEET 18 OF 41

OHIO WILL BE PROVIDED BY CEC LANDSCAPE ARCHITECTS, LLC.

APPROVED BY:	RIM
--------------	-----

LIVE LOADING: AASHTO HS-20 HIGHWAY LOADING

GROUND WATER TABLE: BELOW INVERT OF SYSTEM

SOIL BEARING PRESSURE: 3000 PSF

SOIL DENSITY: 120 PCF

EQUIVALENT UNSATURATED

TERAL ACTIVE EARTH PRESSURE: 35 PSF / FT.

EQUIVALENT SATURATED

TERAL ACTIVE EARTH PRESSURE: 80 PSF/FT. (IF WATER TABLE PRESENT)

APPLICABLE CODES: ASTM C857

ACI-318

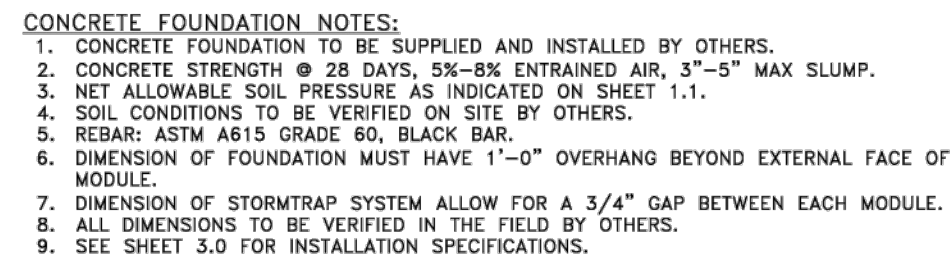
BACKFILL TYPE: SEE SHEET 4.0 FOR BACKFILL OPTIONS

UNIT HEADROOM:	6'-0" SINGLETRAP
TOTAL STORAGE PROV:	37,071.37 CUBIC FEET

1. STORMTANK UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF KID OPENINGS AND INLET/OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
2. COVER RANGE: MIN. 1.00' MAX. 1.00' CONSULT STORMTANK FOR ADDITIONAL COVER OPTIONS.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY, SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR PRIOR TO STORMTANK INSTALLATION.
4. FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW INVERT OF SYSTEM IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTANK.
5. SYSTEM DESIGN MAY ALLOW FOR INCIDENTAL LEAKAGE AND WILL NOT BE SUBJECT TO LEAKAGE TESTING.



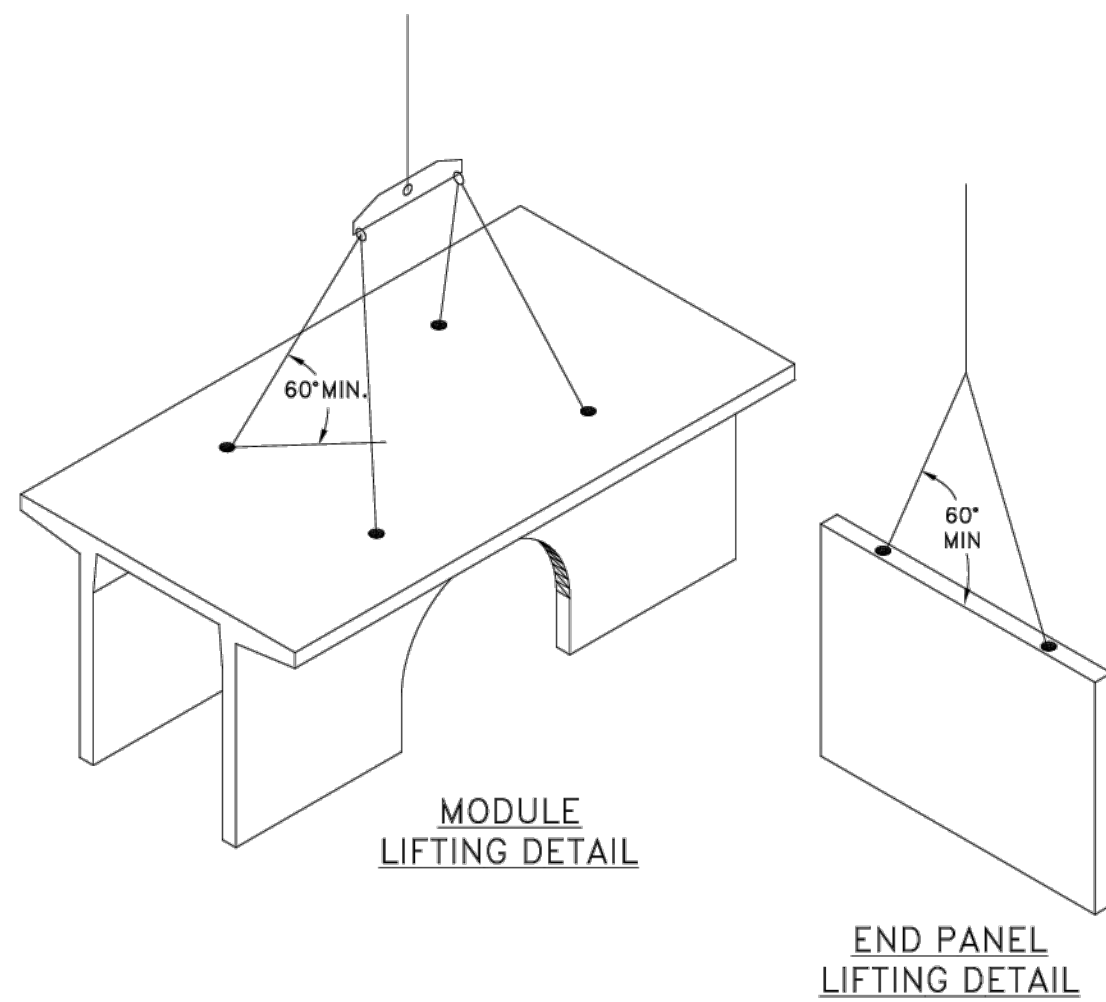
1. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891 (STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES). THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS ARE PROVIDED TO THE STANDARD PRACTICE. THE INSTALLER SHALL INCLUDE THE INSTALLING CONTRACTOR FROM FOLLOWING ASTM C891 IN ITS ENTRY AND IMPLEMENTING ALL APPROPRIATE MEASURES. THE INSTALLING CONTRACTOR OWNS AND IS RESPONSIBLE FOR THE STORMTRAP SYSTEM UPON REMOVAL OF THE MODULES FROM THE PROJECT. THE TRUCK THROUGH "FINAL CONSTRUCTION". FINAL CONSTRUCTION IS ACHIEVED WHEN ALL MODULES ARE SET FULLY BACKFILLED, AND WHEN FINAL FINISHED GRADES ARE REACHED. THE CONTRACTOR IS RESPONSIBLE FOR ANY COUNTERMEASURES NECESSARY TO RESIST UPLIFT/BUOYANCE BEFORE "FINAL CONSTRUCTION" IS ACHIEVED.
2. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT PROPER/ADEQUATE EQUIPMENT IS USED TO SET/INSTALL THE MODULES.
3. STORMTRAP MODULES SHALL BE PLACED ON A LEVEL CONCRETE FOUNDATION (SEE SHEET 2.1) WITH A "1'-0" OVERHANG ON ALL SIDES THAT SHALL BE POURED IN PLACE BY INSTALLING CONTRACTOR. A QUALIFIED GEOTECHNICAL ENGINEER, EMPLOYED BY OWNER, IS TO PROVIDE ASSISTANCE IN EVALUATING THE EXISTING SOIL CONDITIONS TO ENSURE THAT THE SOIL BEARING PRESSURE MEETS OR EXCEEDS THE STRUCTURAL DESIGN LOADING CRITERIA AS SPECIFIED ON SHEET 1.1.
4. THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 2" (SEE DETAIL 2). IF THE SPACE EXCEEDS 2", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
5. STORMTRAP MODULES ARE NOT WATERTIGHT.
6. THE PERIMETER HORIZONTAL JOINT BETWEEN THE STORMTRAP MODULES AND THE CONCRETE FOUNDATION SHALL BE SEALED TO THE FOUNDATION WITH PRE-FORMED MASTIC JOINT SEALERS ACCORDING TO ASTM C891, 8.8 AND 5.12 (SEE DETAIL 1). THE MASTIC JOINT TAPE DOES NOT PROVIDE A WATERTIGHT SEAL.
7. ALL EXTERIOR ROOF AND EXTERIOR VERTICAL WALL JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 8" WIDE PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN, BONDED TO A WOVEN, HIGH PUNCTURE RESISTANT POLYMER WRAP, CONFORMING TO ASTM C891 AND SHALL BE INTEGRATED WITH PRIMER SEALANT AS APPROVED BY THE PROJECT ARCHITECT. (SEE DETAIL 2 & 4). THE JOINT WRAP DOES NOT PROVIDE A WATERTIGHT SEAL. THE SOLE PURPOSE OF THE JOINT WRAP IS TO PROVIDE A FILT AND SOIL TIGHT SYSTEM. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
 - 7.1. USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE JOINT WRAP IS TO BE APPLIED.
 - 7.2. A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (ADHESIVE SIDE DOWN) ALONG THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRM AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.
8. IF THE CONTRACTOR NEEDS TO CANCEL ANY SHIPMENTS, THEY MUST DO SO 48 HOURS PRIOR TO THEIR SCHEDULED ARRIVAL AT THE JOB SITE. IF CANCELED AFTER THAT TIME, PLEASE CONTACT THE PROJECT MANAGER.
9. IF THE STORMTRAP MODULE(S) IS DAMAGED IN ANY WAY PRIOR, DURING, OR AFTER INSTALL, STORMTRAP MUST BE CONTACTED IMMEDIATELY TO ASSESS THE DAMAGE AND DETERMINE WHETHER OR NOT THE MODULE(S) WILL NEED TO BE REPLACED. IF ANY MODULE ARRIVES AT THE JOBSITE DAMAGED OR DOES NOT UNLOAD IT, CONTACT STORMTRAP IMMEDIATELY. ANY DAMAGE NOT REPORTED BEFORE THE TRUCK IS UNLOADED WILL BE THE CONTRACTOR'S RESPONSIBILITY.
10. STORMTRAP MODULES CANNOT BE ALTERED OR MODIFIED AFTER UNMANUFACTURED WITHOUT THE WRITTEN CONSENT FROM STORMTRAP.



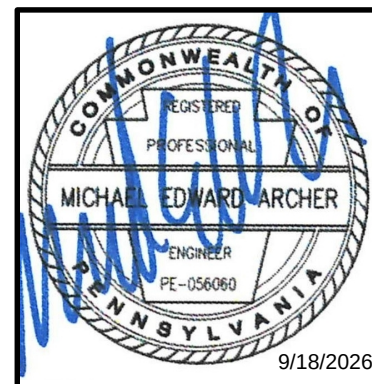
DETAIL 10
3B SINGLETRAP FOUNDATION LAYOUT
NOT TO SCALE

HS-20 & HS-25 LOADING – (ACI 318, ST3)				
MAXIMUM SYSTEM COVER	SLAB THICKNESS	CONCRETE STRENGTH	REINFORCEMENT (BOTH DIRECTIONS)	'A' CLEAR COVER
0"–6" = 1'-0" (HS-20)	8"	4000 PSI	#4 @ 18" O.C.	3.5"
0"–6" = 1'-0" (HS-25)	8"	4000 PSI	#4 @ 16" O.C.	3.5"
1'-1" = 2'-0"	8"	4000 PSI	#4 @ 16" O.C.	3.5"
2'-11" = 3'-0"	8"	4000 PSI	#4 @ 12" O.C.	3.5"
3'-11" = 4'-0" (HS-20)	8"	4000 PSI	#4 @ 12" O.C.	3.5"
3'-11" = 4'-0" (HS-25)	8"	4000 PSI	#5 @ 16" O.C.	3.375"
4'-1" = 3'-0"	8"	4000 PSI	#5 @ 16" O.C.	3.375"
5'-1" = 6'-0"	8"	4000 PSI	#5 @ 16" O.C.	3.375"
6'-11" = 8'-0"	8"	4000 PSI	#5 @ 12" O.C.	3.375"
7'-11" = 8'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
8'-11" = 9'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
9'-11" = 10'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
10'-11" = 11'-0"	10"	4000 PSI	#5 @ 12" O.C.	4.375"
11'-11" = 12'-0"	10"	4000 PSI	#5 @ 12" O.C.	4.375"
12'-11" = 14'-0"	11"	4000 PSI	#5 @ 16" O.C. (T&B)	3.000"
14'-11" = 15'-0"	11"	4000 PSI	#5 @ 16" O.C. (T&B)	3.000"

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL (A) CHAINS/CABLES ARE SECURED PROPERLY TO THE LIFTING ANCHORS AND IN EQUAL FASHION WHEN LIFTING THE STORMTAPR MODULE.
2. MINIMUM 7'-0" CHAIN/CABLE LENGTH TO BE USED TO LIFT STORMTAPR MODULES (SUPPLIED BY CONTRACTOR).
3. CONTRACTOR TO ENSURE MINIMUM LIFTING ANGLE IS 60° FROM TOP SURFACE OF STORMTAPR MODULE. SEE DETAIL.
4. IT IS UNDERSTOOD AND AGREED THAT AT ALL TIMES DURING WHICH HOSTING AND LOGGING EQUIPMENT IS BEING SUPPLIED TO THE PURCHASER, OPERATOR OF SUCH EQUIPMENT SHALL BE IN CHARGE OF HIS ENTIRE EQUIPMENT AND SHALL AT ALL TIMES BE THE JUDGE OF THE PROPERITY OF ANY PROCEEDING OF ANY NATURE TO HIM FROM THE SELLER, ITS AGENTS OR EMPLOYEES. PURCHASER AGREES TO SAVE, INDEMNIFY AND HOLD HARMLESS SELLER FROM ALL LOSS, DAMAGES, DEMANDS OR CAUSES OF ACTION, WHICH MAY ARISE FROM THE EXISTENCE OR OPERATION OF SAID EQUIPMENT.



1. END PANELS WILL BE SUPPLIED TO CLOSE OFF OPEN ENDS OF ROWS.
2. PANELS SHALL BE INSTALLED IN A TILT UP FASHION DIRECTLY ADJACENT TO OPEN OF MODULE (REFER TO SHEET 2.0 FOR END PANEL LOCATIONS). SIDE WITH LIFTERS INDICATES OUTSIDE FACE.
3. CONNECTION HOOKS WILL BE SUPPLIED WITH END PANELS TO SECURELY CONNECT PANEL TO ADJACENT STORMTRAP MODULE (SEE PANEL CONNECTION ELEVATION VIEW).
4. ONCE CONNECTION HOOK IS ATTACHED, LIFTING CLUTCHES MAY BE REMOVED.
5. JOINT WRAP SHALL BE PLACED AROUND PERIMETER JOINT PANEL (SEE SHEET 3.0).



REVISION RECORD	
NO	DATE
1	06/03/2006
RESPONSE TO INCOMPLETE LETTER DATED 05/14/2006.	
2	06/14/2006
RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/19/2006.	

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CITY OF SHARON
MERCER COUNTY, PA**

POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS

DATE:	APRIL 2026	DRAWN BY:	VMF
	AS SHOWN	CHECKED BY:	BJH
PROJECT NO:	353-024		
APPROVED BY:	RIM		

DRAWING NO.:
C406
SHEET 19 OF 4

ZONE CHART		
ZONES	ZONE DESCRIPTIONS	REMARKS
ZONE 1	FOUNDATION AGGREGATE	#5 (5") STONE ANGULAR AGGREGATE (SEE NOTE 4)
ZONE 2	BACKFILL	UNIFIED SOIL CLASSIFICATION (OW, GP, SW, SP) OR SEE BELOW FOR APPROVED BACKFILL OPTIONS
ZONE 3	FINAL COVER OVERTOP	MATERIALS NOT TO EXCEED 120 PCF

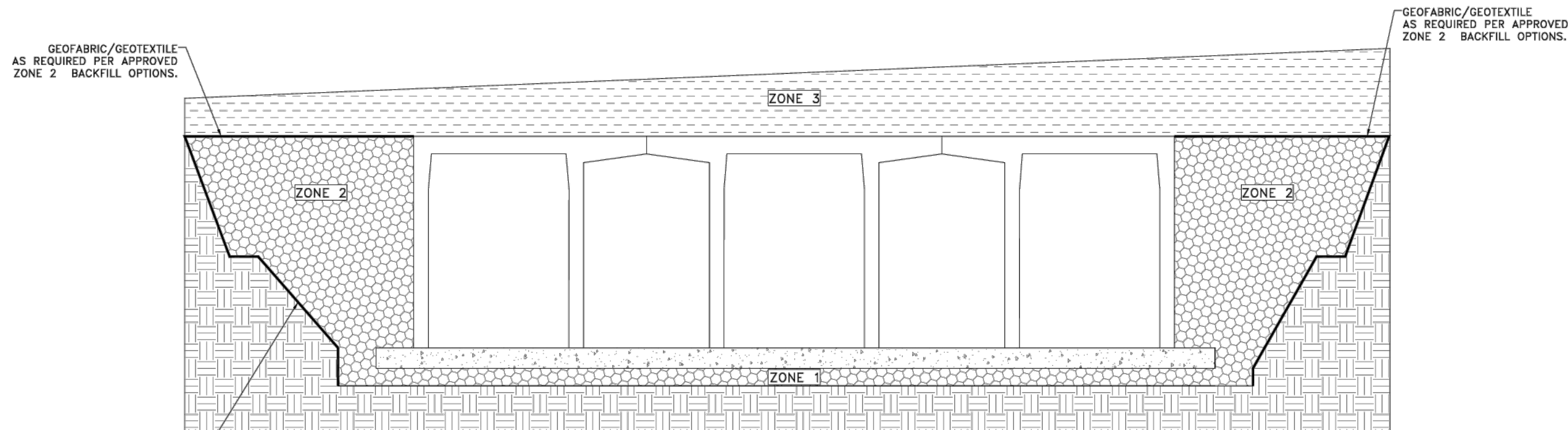
FILL DEPTH	TRACK WIDTH	MAX VEHICLE WEIGHT (KIPS)	MAX GROUND PRESSURE
12"	18"	51.8	1690 psf
	24"	68.1	1219 psf
	30"	76.7	1000 psf
	36"	85.0	924 psf

NOTE:
TRACK LENGTH NOT TO EXCEED 15'-4".
ONLY TWO TRACKS PER VEHICLE.

STORMTRAP ZONE INSTALLATION SPECIFICATION/PROCEDURE

- THE FILL PLACED AROUND THE STORMTRAP MODULES MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL EITHER BE COMPACTED AND/OR VIBRATED TO ENSURE THAT BACKFILL AGGREGATE/STONE MATERIAL IS WELL SEATED AND PROPERLY INTER LOCKED. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEDGING ACTION. CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MUST BE FREE-DRAINING MATERIAL. SEE ZONE 2 BACKFILL CHART ON THIS PAGE FOR APPROVED BACKFILL OPTIONS. IF NATIVE EARTH IS SUSCEPTIBLE TO MIGRATION, CONFIRM WITH GEOTECHNICAL ENGINEER AND PROVIDE PROTECTION AS REQUIRED (PROVIDED BY OTHERS). ALL MODULES MUST BE SET AND ALL SIDES MUST BE FULLY BACKFILLED BEFORE TRAVEL OVERTOP THE SYSTEM IS PERMITTED. SEE NOTE 2 FOR EXCEPTIONS AND LIMITATIONS.
- THE FILL PLACED OVERTOP THE SYSTEM SHALL BE PLACED IN MINIMUM 6" LIFTS. AT NO TIME SHALL MACHINERY OR VEHICLES GREATER THAN THE DESIGN LIVE LOAD LISTED ON SHEET 1.1 TRAVEL OVERTOP THE SYSTEM. IF TRAVEL OVER THE SYSTEM OCCURS BEFORE THE MINIMUM DESIGN COVER IS ACHIEVED, IT MAY BE NECESSARY TO REDUCE THE ULTIMATE LOAD/BURDEN OF THE OPERATING MACHINERY SO AS TO NOT EXCEED THE DESIGN CAPACITY OF THE SYSTEM. VEHICLES AND MACHINERY USED TO PLACE FILL MATERIAL ON TOP OF THE SYSTEM SHALL TRAVEL PARALLEL TO THE LONGITUDINAL AXIS OF THE STORMTRAP MODULES WHENEVER POSSIBLE.
- THE VIBRATORY FUNCTION OF ANY ROLLER, COMPACTOR, VEHICLE, ETC. SHALL NOT BE USED OVERTOP THE SYSTEM WITHOUT PRIOR APPROVAL FROM STORMTRAP. IN SOME CASES, HAND COMPACTION MAY BE NECESSARY TO ENSURE THAT THE ALLOWABLE DESIGN LOADING IS NOT EXCEEDED.
- STONE AGGREGATE FOUNDATION IN ZONE 1 IS FOR LEVELING PURPOSES.

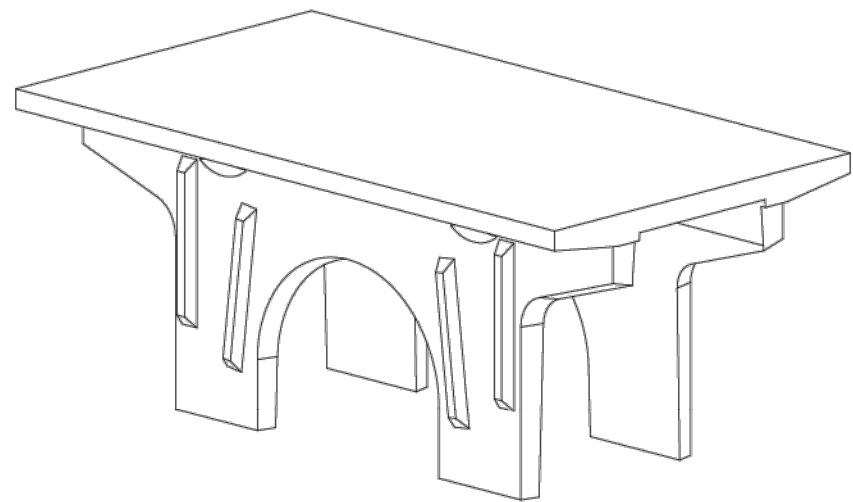
APPROVED ZONE 2 BACKFILL OPTIONS	
OPTION	REMARKS
3" STONE AGGREGATE	THE STONE AGGREGATE SHALL CONSIST OF CLEAN AND FREE DRAINING ANGULAR MATERIAL. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 5% PASSING THE #8 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOFABRIC AROUND THE PERIMETER OF THE BACKFILL (ASTM SIZE #57) AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
SAND	IMPORTED PURE SAND IS PERMITTED TO BE USED AS BACKFILL IF IT IS CLEAN AND FREE DRAINING. THE SAND USED FOR BACKFILLING SHALL HAVE LESS THAN 40% PASSING #40 SIEVE AND LESS THAN 5% PASSING #200 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOFABRIC AROUND THE PERIMETER OF THE SAND BACKFILL.
CRUSHED CONCRETE AGGREGATE	CLEAN, FREE DRAINING CRUSHED CONCRETE AGGREGATE MATERIAL CAN BE USED AS BACKFILL FOR STORMTRAP'S MODULES. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 5% PASSING THE #8 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOFABRIC AROUND THE PERIMETER OF THE BACKFILL.
ROAD PACK	STONE AGGREGATE 100% PASSING THE 1-1/2" SIEVE WITH LESS THAN 12% PASSING THE #200 SIEVE (ASTM SIZE #487). GEOFABRIC AS PER GEOTECHNICAL ENGINEER RECOMMENDATION.



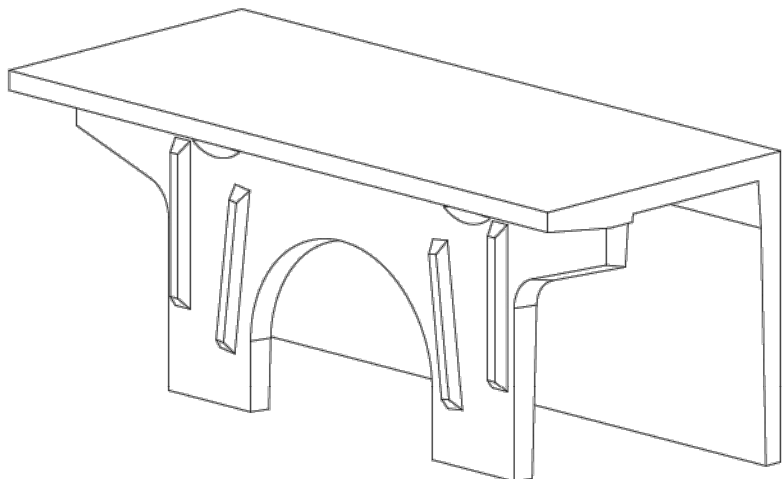
STEPPED OR SERRATED AND APPLICABLE OSHA REQUIREMENTS (SEE INSTALLATION SPECIFICATIONS)

BACKFILL DETAIL DETAIL 12

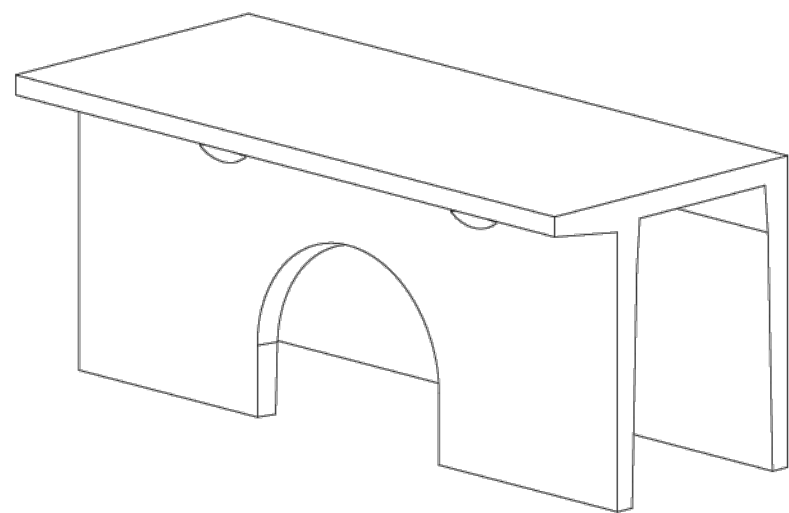
3B SINGLETRAP BACKFILL SPECIFICATION NOT TO SCALE



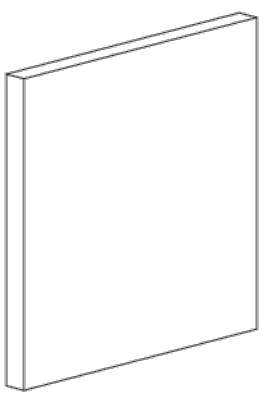
TYPE I



TYPE III



TYPE IV



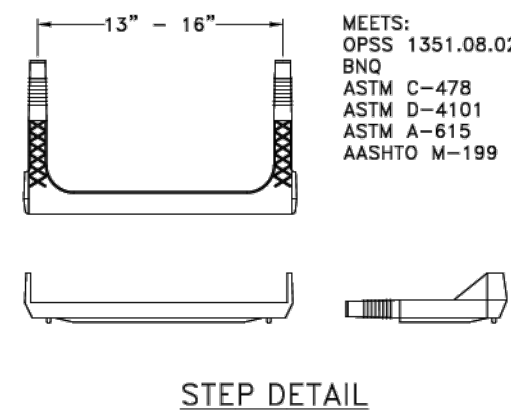
TYPE IV END PANEL

- NOTES:
- OPENING LOCATIONS AND SHAPES MAY VARY.
 - SP - INDICATES A MODULE WITH MODIFICATIONS.
 - P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
 - POCKET WINDOW OPENINGS ARE OPTIONAL.

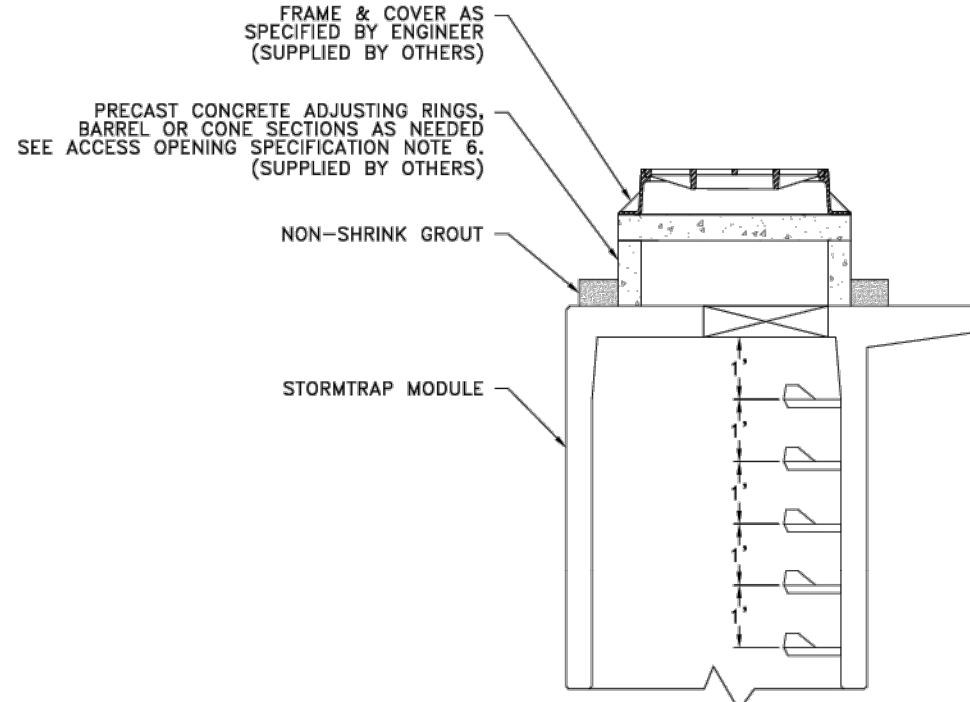
DETAIL 14 3B SINGLETRAP MODULE TYPES NOT TO SCALE

ACCESS OPENING SPECIFICATION

- A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 4'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 2'-0" OF CLEARANCE FROM THE END OF THE STORMTRAP MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG UNLESS OTHERWISE SPECIFIED. SEE SHEET 2.0 FOR SIZES AND LOCATIONS.
- UNLESS OTHERWISE SPECIFIED, PLASTIC COATED STEPS ARE PROVIDED INSIDE ANY MODULE WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP MODULES. ALL ENSURING STEPS SHALL BE PLACED AT A DISTANCE BETWEEN 10" MIN AND 14" MAX BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
- STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
- STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
- ACCESS OPENINGS SHOULD BE LOCATED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTRAP RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM FOR ACCESS AND INSPECTION.
- USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS. (PROVIDED BY OTHERS)



STEP DETAIL



RISER/STAIR DETAIL

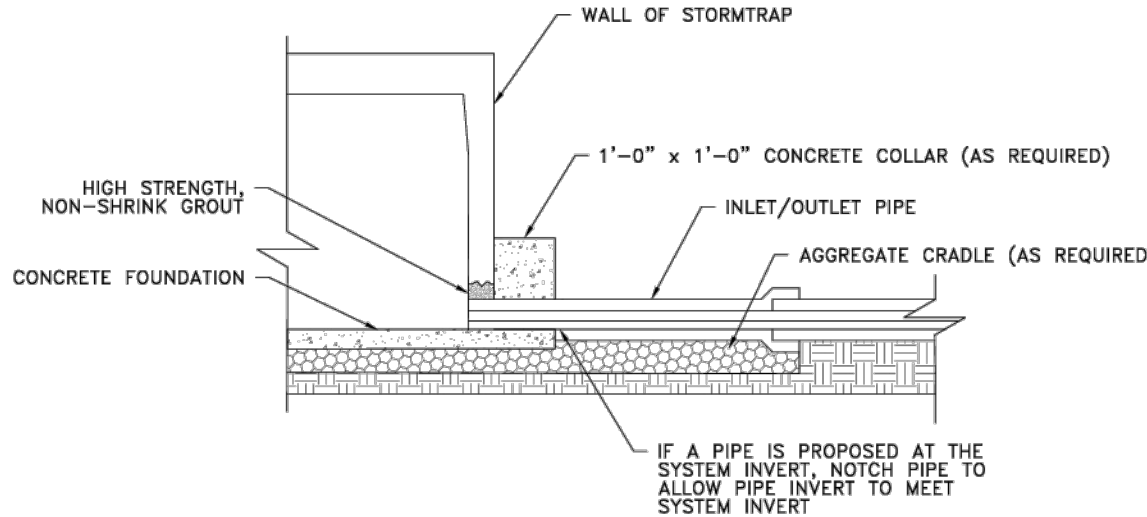
PIPE OPENING SPECIFICATION

- MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
- CONNECTING PIPES MAY BE INSTALLED WITH A 1'-0" CONCRETE COLLAR AND AN AGGREGATE CRADLE (AS REQUIRED) FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI MAY BE USED.
- THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.

PIPE INSTALLATION INSTRUCTIONS

- CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO STORMTRAP.
- IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
- ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

NOTE: ALL ANCILLARY PRODUCTS/SPECIFICATIONS RECOMMENDED AND SHOWN ON THIS SHEET INCLUDING BUT NOT LIMITED TO CONCRETE COLLARS, AGGREGATE CRADLES, GRADE RINGS, RISER SECTIONS, ETC., ARE RECOMMENDATIONS ONLY AND SUBJECT TO CHANGE PER THE INSTALLING CONTRACTOR AND/OR PER LOCAL MUNICIPAL CODE/REQUIREMENTS.



NOTCHED PIPE CONNECTION DETAIL
WHEN PIPE INVERT IS AT
INVERT OF STORMTRAP SYSTEM

DETAIL 13 3B PIPE/ACCESS OPENING SPECIFICATION NOT TO SCALE

REVISION RECORD	
NO	DESCRIPTION
1	RESPONSE TO INCOMPLETE LETTER DATED 06/04/2008
2	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2008
3	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 08/14/2008

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CITY OF SHARON
MERCER COUNTY, PA

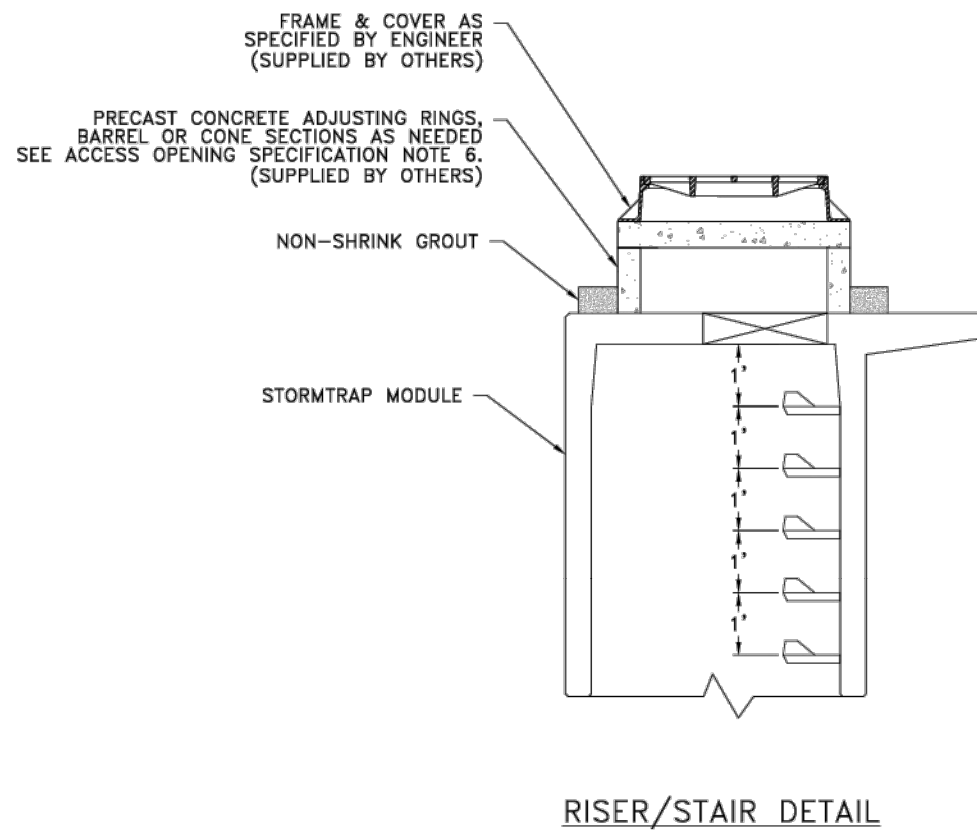
POST CONSTRUCTION
STORMWATER MANAGEMENT
DETAILS

DRAWING NO.:
C407

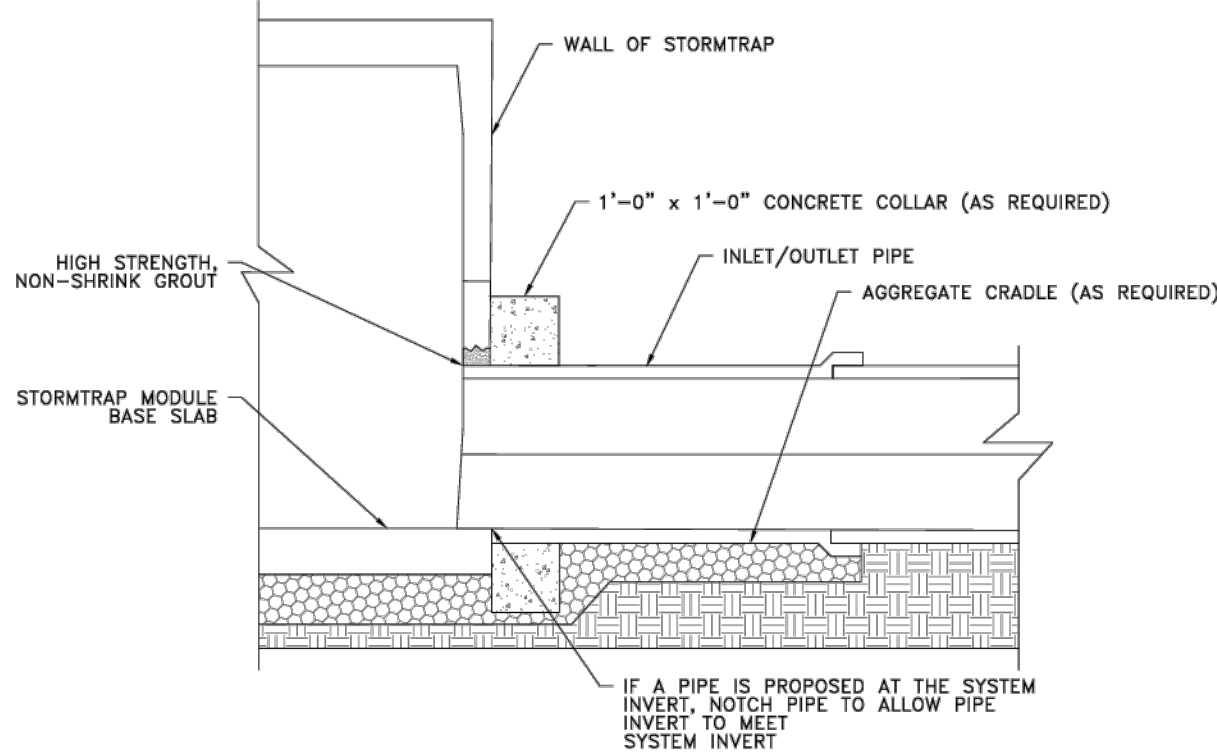
SHEET 20 OF 41



1. A TYPICAL ACCESS OPENING FOR THE STORMTAPR SYSTEM ARE 2"-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 4'-0" IN DIAMETER NEED TO BE APPROVED BY THE CITY ENGINEER. ACCESS OPENINGS MUST BE 2'-0" CLEARANCE FROM THE END OF THE STORMTAPR MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG UNLESS OTHERWISE SPECIFIED. SEE SHEET 2.0 FOR SIZES AND LOCATIONS.
2. UNLESS OTHERWISE SPECIFIED, PLASTIC COATED STEPS ARE PROVIDED INSIDE ANY MODULE WHERE DEMAND NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTAPR MODULES. ALL ENSURING STEPS SHALL BE PLACED AT A DISTANCE BETWEEN 10" AND 14" MAX BETWEEN STEPS. STEPS SHALL BE ADJUSTED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
3. STORMTAPR LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
4. STORMTAPR ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO LOCATION OF STEPS IS ATTAINABLE.
5. ACCESS OPENINGS SHOULD BE PLACED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTAPR RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM.
6. USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTAPR RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS. (PROVIDED BY OTHERS)



1. MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
2. CONNECTING PIPES MAY BE INSTALLED WITH A 1'-0" CONCRETE COLLAR AND AN AGGREGATE CRADLE (AS REQUIRED) FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI MAY BE USED.
3. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.



1. CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO STORMTRAP.
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3. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

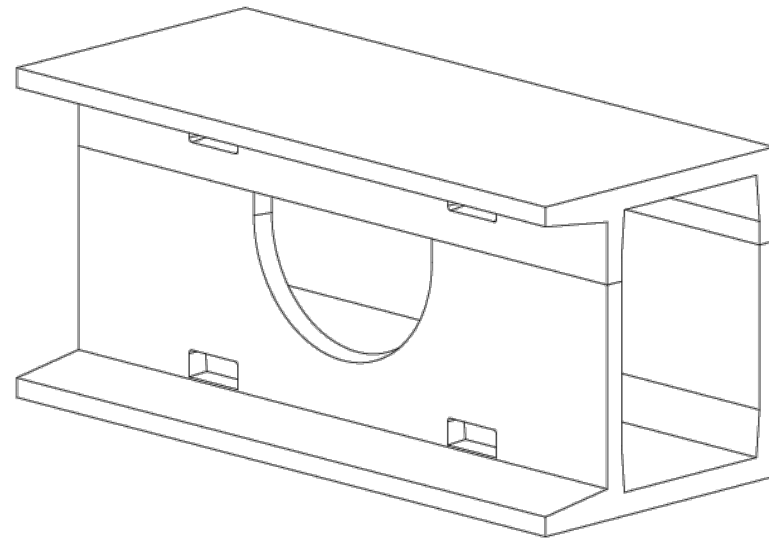
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NOTCHED PIPE CONNECTION DETAIL
WHEN PIPE INVERT IS AT
INVERT OF STORMTRAP SYSTEM

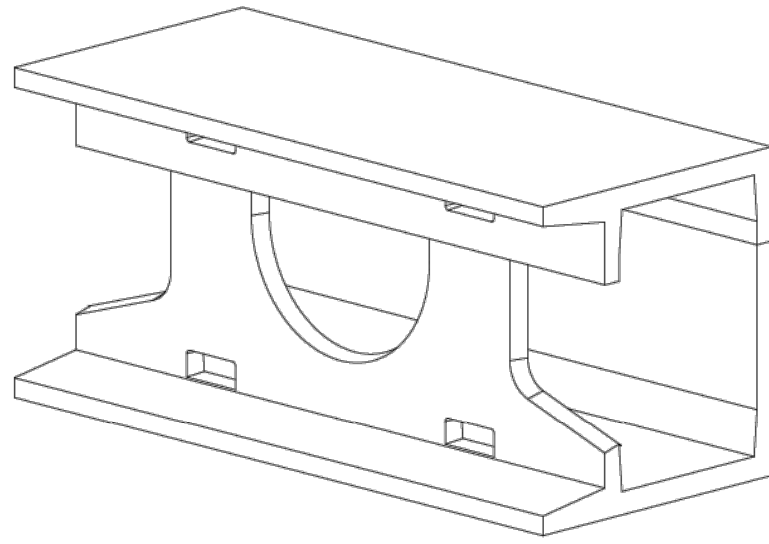
NOTES:

1. OPENING LOCATIONS AND SHAPES MAY VARY.
2. SP - INDICATES A MODULE WITH MODIFICATIONS.
3. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
4. POCKET WINDOW OPENINGS ARE OPTIONAL.

TYPE I



TYPE III/IV



TYPE III



TYPE IV END PANEL

REVISION RECORD		
NO	DATE	DESCRIPTION
1	04/11/2008	RESPONSE TO RECORD REQUEST LETTER DATED 04/09/08
2	04/11/2008	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 04/09/08
3	04/11/2008	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 04/09/08

UNDERSTANDING AND ANTWERP ARCHITECTURE IN THE STATE OF ARIZONA WILL BE PROVIDED BY GIC SURVEYING AND LANDSCAPE ARCHITECTS OF A.P.C. ARCHITECTS IN PUERTO RICO. ALL INFORMATION AND DATA WILL BE PROVIDED BY GIC SURVEYING AND LANDSCAPE ARCHITECTS OF A.P.C. ARCHITECTS IN PUERTO RICO. ALL INFORMATION AND DATA WILL BE PROVIDED BY GIC SURVEYING AND LANDSCAPE ARCHITECTS OF A.P.C. ARCHITECTS IN PUERTO RICO. ALL INFORMATION AND DATA WILL BE PROVIDED BY GIC SURVEYING AND LANDSCAPE ARCHITECTS OF A.P.C. ARCHITECTS IN PUERTO RICO.

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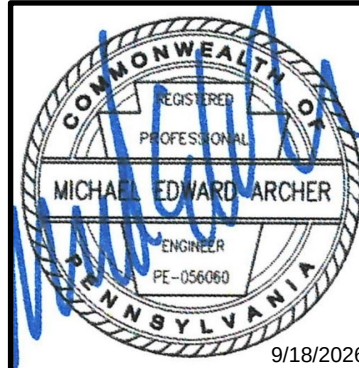
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200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS

DRAWING NO.:

C410

SHEET 23 OF 41



9/18/2020

A:\300-0001\301-0241-0400\Draw\0101\303004-0402-C411-PCSM Notes.dwg[C411] LS(9/11/2026 - Wednesday) - LP: 9/16/2026 10:45 AM

POST CONSTRUCTION STORMWATER MANAGEMENT NOTES

- DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO EDGE OF STRUCTURE, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
- ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
- STORM PIPE MATERIAL OPTIONS ARE AS FOLLOWS: HDPE AND RCP. ALL INLETS ARE TO BE PADOT TYPE M OR TYPE M MODIFIED INLETS UNLESS OTHERWISE SPECIFIED. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL INLETS, MANHOLES, YARD DRAINS AND ENDWALLS.
- BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
- APPROVAL OF A STORMWATER MANAGEMENT PLAN BY THE BOROUGH SHALL NOT BE CONSTRUED AS AN INDICATION THAT SAID PLAN COMPLIES WITH THE REQUIREMENTS, LAWS, OR STANDARDS OF ANY AGENCY OF THE COMMONWEALTH WHICH MAY OR MAY NOT GOVERN SAID ACTIVITY.
- A LICENSED PROFESSIONAL OR THEIR DESIGNEE MUST BE PRESENT ON SITE DURING INSTALLATION OF THE STORMWATER MANAGEMENT CONTROLS (SCMS).
- IT SHALL BE UNLAWFUL TO ALTER OR REMOVE ANY PERMANENT STORMWATER SCM REQUIRED BY AN APPROVED STORMWATER MANAGEMENT PLAN, OR ALLOW THE PROPERTY TO REMAIN IN A CONDITION WHICH DOES NOT CONFORM TO AN APPROVED STORMWATER MANAGEMENT PLAN, UNLESS THE BOROUGH GRANTS AN EXCEPTION IN WRITING.
- INSTALL CONSTRUCTION FENCE AND 12" SILT SOCK AROUND THE PROPOSED SCMS PRIOR TO THE START OF CONSTRUCTION. THE SCMS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF DURING CONSTRUCTION.
- CONSTRUCTION WASTES ARE NOT ANTICIPATED ON SITE. PROCEDURES WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH AND/OR FROM THE PROJECT SITE AND POST CONSTRUCTION STORMWATER MANAGEMENT BMPs WILL BE UNDERTAKEN IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTIONS, TITLE 25, CHAPTER 102.8 (F)(11).
- REFER TO THE PHASE 1 ESA FOR INFORMATION PERTAINING TO SITE CONTAMINATION.
- CONTRACTOR IS TO PROTECT ALL VEGETATION, STREAMS, AND WETLANDS THAT ARE OUTSIDE THE DETERMINED LIMIT OF DISTURBANCE AND LIMIT LAND CLEARING AND GRADING TO AREAS NECESSARY TO COMPLETE PROPOSED SITE IMPROVEMENTS.
- CONTRACTOR TO PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF THE RECEIVING STREAM.

POST CONSTRUCTION STORMWATER MANAGEMENT MAINTENANCE PROGRAM

TO PROVIDE EFFECTIVE OPERATION OF THE STORMWATER MANAGEMENT SYSTEM, THE FOLLOWING MAINTENANCE PROGRAM HAS BEEN DEVELOPED FOR THIS PROJECT. THE OWNER WILL OPERATE AND MAINTAIN ALL STORMWATER MANAGEMENT FACILITIES AND POST CONSTRUCTION STORMWATER MANAGEMENT SCMS PER THE CITY OF SHARON STORMWATER MANAGEMENT ORDINANCE, APPROVED PCSM PLAN, AND THE CURRENT PENNSYLVANIA REGULATIONS. INSPECTION OF THE FACILITIES WILL OCCUR NOT LESS THAN TWO TIMES PER YEAR.

MAINTENANCE OF THE PROJECT AND STORMWATER MANAGEMENT FACILITIES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND/OR LANDOWNER AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

STORMWATER COLLECTION SYSTEM:

- INLET GRATES SHOULD BE KEPT FREE OF TRASH AND DEBRIS.
- INLETS SHOULD BE INSPECTED A MINIMUM OF TWO TIMES PER YEAR AND BE CLEANED OUT WHEN DEBRIS REACHES HALF THE DISTANCE FROM THE BOTTOM OF THE INLET TO THE INVERT OF THE OUTLET PIPE.
- PIPES SHOULD BE FLUSHED AS NEEDED TO CLEAR BUILD-UP OF DEBRIS THAT MAY INTERFERE WITH THE FLOW OF WATER THROUGH THE PIPES.

STORMWATER OUTFALLS:

- PIPE OUTFALLS SHOULD BE INSPECTED A MINIMUM OF TWO TIMES PER YEAR AND BE KEPT FREE OF DEBRIS AND VEGETATION THAT MAY INTERFERE WITH THE DISCHARGE OF WATER.
- CLEAR THE ENERGY DISSIPATORS/OUTLET PROTECTION APRONS OF ALL DEBRIS.
- REPLACE ANY DISLODGED ROCK. ROCK SHOULD BE REPLACED AS NEEDED TO PREVENT EROSION AND SCOUR AROUND THE OUTFALL.

GENERAL MAINTENANCE:

- SEDIMENT AND DEBRIS REMOVED FROM STORMWATER FACILITIES SHALL BE DISPOSED OF IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE CODES, MATERIALS MANAGEMENT PLAN, COA, AND ENVIRONMENTAL CONVEYANT. UNDER NO CIRCUMSTANCE SHALL SEDIMENT BE DISPOSED OF IN OR NEAR WATERS OF THE COMMONWEALTH.

MRC STORMTRAP UNDERGROUND DETENTION SYSTEM:

IN GENERAL MAINTENANCE SHOULD OCCUR ON A QUARTERLY BASIS AND FOLLOWING STORM EVENTS GREATER THAN 1-IN IN A 24-HR PERIOD AND SHALL INCLUDE THE FOLLOWING ACTIVITIES:

- ACCUMULATED SEDIMENT SHALL BE REMOVED TO MAINTAIN FLOW PATHWAYS, PREVENT CONCENTRATED FLOWS, AND PREVENT OBSTRUCTION OF STRUCTURE. THIS ACTIVITY TO BE DONE AS NEEDED.
- INSPECT FLOW SPLITTERS AND REMOVE ANY TRASH, DEBRIS, AND SEDIMENT USING A VACUUM TRUCK OR OTHER APPROPRIATE METHOD.
- INSPECT FLOW CONTROL STRUCTURES AND REMOVE ANY TRASH, DEBRIS, AND SEDIMENT USING A VACUUM TRUCK OR OTHER APPROPRIATE METHOD.
- INSPECT STORMTRAP SYSTEM FOR ACCUMULATED SEDIMENT, TRASH, AND DEBRIS. USE A VACUUM TRUCK TO REMOVE ANY ACCUMULATED TRASH, DEBRIS, SEDIMENT.

ACADIA AR10PC:

IN GENERAL MAINTENANCE SHOULD OCCUR ON A QUARTERLY BASIS AND FOLLOWING STORM EVENTS GREATER THAN 1-IN IN A 24-HR PERIOD AND SHALL INCLUDE THE FOLLOWING ACTIVITIES:

- DETERMINE THE SEDIMENT DEPTH BY LOWERING A STADIA ROD INTO THE MANHOLE UNTIL IT REACHES THE TOP OF THE CAPTURED SEDIMENT. MARK THIS SPOT ON THE ROD, THEN CONTINUE PUSHING THE ROD THROUGH THE SEDIMENT UNTIL IT REACHES THE BOTTOM OF THE SUMP. NEXT MARK THE SECOND SPOT ON THE ROD AND COMPARE THE TWO MARKINGS TO DETERMINE THE DEPTH OF SEDIMENT. MAINTENANCE SHOULD OCCUR WITH THE SEDIMENT HAS REACHED A DEPTH OF 18-INCHES.
- REMOVE THE MANHOLE COVER TO PROVIDE ACCESS TO THE THE POLLUTANT STORAGE. POLLUTANTS ARE STORED IN THE SUMP, BELOW THE UNIT ASSEMBLY, ACCESS THIS AREA THROUGH THE ACCESS CYLINDER.
- USE A VACUUM TRUCK TO REMOVE ALL WATER, DEBRIS, OIL, AND SEDIMENT.
- USE A HIGH PRESSURE HOSE TO CLEAN THE MANHOLE OF ALL THE REMAINING SEDIMENT AND DEBRIS. THEN, USE THE VACUUM TRUCK TO REMOVE THE WATER.
- FILL THE CLEAN MANHOLE WITH WATER UNTIL THE LEVEL REACHES THE INVERT OF THE OUTLET PIPE.
- REPLACE THE MANHOLE COVER.
- DISPOSE OF THE POLLUTED WATER, OIL, SEDIMENT, AND TRASH AT AN APPROVED FACILITY.

RECYCLING OR DISPOSAL OF MATERIALS

- ANY AND ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR MANAGING IMPORT AND EXPORT MATERIAL IN ACCORDANCE WITH THE PADEP'S MANAGEMENT OF FILL POLICY (MOST RECENT EDITION). THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANALYTICAL TESTING TO CHARACTERIZE MATERIALS IN ACCORDANCE WITH THE CLEAN FILL POLICY, AND RESPONSIBLE FOR THE COSTS ASSOCIATED WITH DISPOSING OF EXPORT MATERIAL IN ACCORDANCE WITH THE POLICY.
- CEC NOTES THAT HISTORIC FILLS (FILLS WITH RESIDUALS PLACED PRIOR TO 1988 AS DEFINED IN THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) CLEAN FILL POLICY) ARE SUBJECT TO ADDITIONAL TESTING, HANDLING, AND MANAGEMENT REQUIREMENTS PER THE PADEP'S CLEAN FILL POLICY, IF THEY NEED TO BE HAULED OFF-SITE. EXISTING FILL ON-SITE, IF ENCOUNTERED, WOULD BE CLASSIFIED AS HISTORIC FILL. HISTORIC FILLS CAN REMAIN ON-SITE WITHOUT THE NEED FOR ADDITIONAL TESTING. REFER TO THE CLEAN FILL POLICY FOR MORE INFORMATION.
- THE PADEP DEFINES ENVIRONMENTAL DUE DILIGENCE AS FOLLOWS REGARDING CLEAN FILL: INVESTIGATIVE TECHNIQUES, INCLUDING BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. DURING CONSTRUCTION, PADEP/CCD MUST BE CONTACTED WITHIN 24 HOURS IF SOIL SAMPLES ARE FOUND TO EXCEED CH. 250 MSC STANDARDS.

CONSTRUCTION SEQUENCE

- MOBILIZE EQUIPMENT, CONSTRUCTION TRAILER, MATERIAL STORAGE BINS, ETC. ONSITE.
- LAYOUT THE LIMITS OF THE SITE, ESTABLISH BENCHMARKS, AND REFERENCE POINTS.
- INSTALL THE TIRE WASH ENTRANCES AND CONCRETE WASHOUT FACILITY AT THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE PROVIDED DETAILS. INSTALLATION OF ADDITIONAL ENTRANCE LOCATIONS MAY BE NECESSARY; HOWEVER, ADDITIONAL ENTRANCES MUST BE APPROVED BY THE CONSERVATION DISTRICT BEFORE INSTALLATION.
- PERFORM INITIAL DEMOLITION FOR INSTALLATION OF PERIMETER BMPs. LIMIT DEMOLITION TO AREAS NECESSARY TO CONSTRUCT/INSTALL BMPs.
- INSTALL COMPOST FILTER SOCKS AT THE LOCATIONS AS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE STANDARDS DETAILS. COMPOST FILTER SOCKS SHALL BE SIZED TO THE SPECIFICATIONS SHOWN ON THE E&S PLAN DRAWINGS.
- PERFORM SITE DEMOLITION ACTIVITIES.
- BEGIN BULK WORK EXCAVATION OF THE SITE. COMPOST FILTER SOCK SHALL TEMPORARILY BE REMOVED, AS NECESSARY, DURING DRY CONDITIONS, AND IMMEDIATELY REPLACED TO ACHIEVE FINAL SUBGRADE ELEVATION AROUND THE PERIMETER OF THE SITE.

HALT ALL ACTIVITIES AND CONTACT CEC PRIOR TO THE BEGINNING OF THE NEXT STEP IN THE CONSTRUCTION SEQUENCE. THE CONSTRUCTION OF UNDERGROUND DETENTION SYSTEM 3A AND 3B CONSISTS OF CRITICAL STAGES THAT A LICENSED PROFESSIONAL OR DESIGNEE MUST BE ONSITE FOR INSPECTION. LICENSED PROFESSIONALS MUST BE LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA.

- UPON ACHIEVING FINAL SUB-GRADE ELEVATION, BEGIN UNDERGROUND DETENTION SYSTEM 3A AND 3B EXCAVATION/CONSTRUCTION IN ACCORDANCE WITH THE APPROVED DETAILS. ENSURE THAT ALL STORMWATER RUNOFF IS DIRECTED DOWNSTREAM SUCH THAT PONDING OR FLOODING DOES NOT OCCUR.

CRITICAL STAGE

INSTALLATION OF UNDERGROUND DETENTION SYSTEM 3A AND 3B IS A CRITICAL STAGE THAT A LICENSED PROFESSIONAL OR DESIGNEE MUST BE ON SITE TO CONSTRUCT. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 BUSINESS DAYS NOTICE PRIOR TO THE INSTALLATION OF UNDERGROUND DETENTION SYSTEM. THE LICENSED PROFESSIONAL OR THEIR DESIGNATED REPRESENTATIVE MUST BE PRESENT DURING SUBGRADE PREPARATION, STONE PLACEMENT, AND UNDERDRAIN INSTALLATION.

A. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891 (STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES). THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS ARE FOLLOWING ASTM C891 IN ITS ENTIRETY AND IMPLEMENTING APPROPRIATE MEASURES. THE INSTALLING CONTRACTOR OWNS AND IS RESPONSIBLE FOR THE STORMTRAP SYSTEM UPON REMOVAL OF THE MODULES FROM THE DELIVERY TRUCK THROUGH FINAL CONSTRUCTION. FINAL CONSTRUCTION IS ACHIEVED WHEN ALL OF THE MODULES ARE SET, FULLY BACKFILLED, AND WHEN FINAL GRADES ARE REACHED. THE CONTRACTOR IS RESPONSIBLE FOR ANY COUNTERMEASURES NECESSARY TO RESIST UPLIFT/BUOYANCY BEFORE FINAL CONSTRUCTION IS ACHIEVED.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT PROPER/ADEQUATE EQUIPMENT IS USED TO SET/INSTALL THE MODULES.

C. STORMTRAP MODULES SHALL BE PLACED ON A LEVEL CONCRETE FOUNDATION WITH A 1'-0" OVERHANG ON ALL SIDES THAT SHALL BE POURED IN PLACE BY INSTALLING CONTRACTOR. THE GEOTECHNICAL ENGINEER OF RECORD TO ENSURE THAT THE SOIL BEARING PRESSURE MEETS OR EXCEEDS THE STRUCTURAL DESIGN LOADING CRITERIA.

D. THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADVANCEMENT MODULES DOES NOT EXCEED 3/4". IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE TO SPECIFICATION.

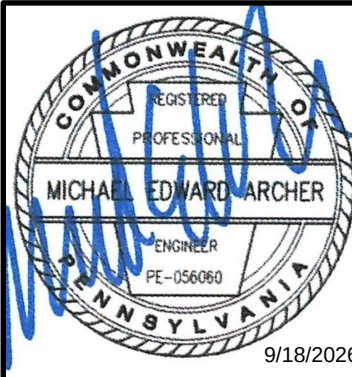
E. THE PERIMETER HORIZONTAL JOINT BETWEEN THE STORMTRAP MODULES AND THE CONCRETE FOUNDATION SHALL BE SEALED TO THE FOUNDATION WITH PRE-FORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891, 8.8, AND 8.12. THE MASTIC JOINT TAPE DOES NOT PROVIDE A WATERTIGHT SEAL.

F. ALL EXTERIOR ROOF AND EXTERNAL VERTICAL WALL JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 8-IN WIDE PRE-FORMED, COLD APPLIED, SELF ADHERING ELASTOMERIC RESIN, BONDED TO A WOVEN SEALANT AS APPROVED BY STORMTRAP. THE JOINT WRAP DOES NOT PROVIDE A WATERTIGHT SEAL. THE PURPOSE OF THE JOINT WRAP IS PROVIDE SILT AND SOIL TIGHT SYSTEM.

G. IF THE STORMTRAP MODULE IS DAMAGED IN ANY WAY PRIOR, DURING, OR AFTER INSTALL, STORMTRAP MUST BE CONTACTED IMMEDIATELY TO ASSESS THE DAMAGE AND DETERMINE WHETHER OR NOT THE MODULES WILL NEED TO BE REPLACED. IF ANY MODULE ARRIVES AT THE JOBSITE DAMAGED DO NOT UNLOAD IT. CONTACT STORMTRAP IMMEDIATELY. ANY DAMAGE NOT REPORTED BEFORE THE TRUCK IS UNLOADED WILL BE THE CONTRACTOR'S RESPONSIBILITY.

H. STORMTRAP MODULES CANNOT BE ALTERED IN ANY WAY AFTER MANUFACTURING WITHOUT WRITTEN CONSENT FROM STORMTRAP AND THE ENGINEER OF RECORD.

- CONSTRUCT THE BUILDINGS, SITE UTILITIES, AND THE REMAINING STORM SYSTEMS. INSTALL ALL INLETS, MANHOLES, AND PIPES DOWNSTREAM TO UPSTREAM PER PLANS. COMPOST FILTER SOCK SHALL BE REMOVED, AS NECESSARY, DURING DRY CONDITIONS, TO FACILITATE STORM SYSTEM OR UTILITY INSTALLATION. REMOVED COMPOST FILTER SOCK SHALL BE REPLACED IMMEDIATELY FOLLOWING BACKFILLING OF STORM SEWER OR UTILITY EXCAVATIONS. INSTALL INLET FILTER BAGS ON ALL INLETS FOLLOWING INSTALLATION.
- ONCE CONSTRUCTION IS COMPLETED, REMOVE ANY SEDIMENT THAT MAY HAVE ACCUMULATED IN THE PROPOSED STORM SEWER SYSTEM. STABILIZE THE DISTURBANCE AREAS WITH GRAVEL, CONCRETE, OR ASPHALT AS SPECIFIED ON THE PLAN DRAWINGS. INSTALL GEOMEMBRANE LINER BENEATH GRAVEL AREAS IN ACCORDANCE WITH THE PROVIDED DETAIL. REMOVE COMPOST FILTER SOCK AS STABILIZATION PROGRESSES.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL REMAINING E&S BMPs.
- AFTER PROJECT COMPLETION AND FINAL INSPECTION, IT IS REQUIRED TO SUBMIT THE NPDES NOTICE OF TERMINATION TO THE MERCER COUNTY CONSERVATION DISTRICT.



POST CONSTRUCTION STORMWATER MANAGEMENT NOTES

DRAWING NO.: C411

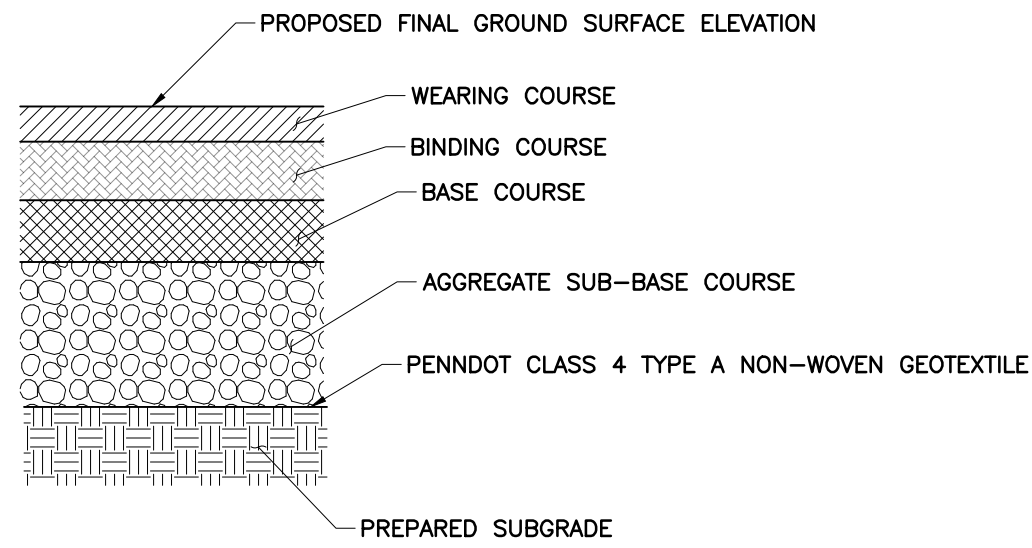
SHEET 42 OF

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CEC
Civil & Environmental
Consultants, Inc.

MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA

DATE: APRIL 2026 | DRAWN BY: VME
PROJECT NO: N.T.S. | CHECKED BY: BJH
APPROVED BY: 363-024 RIM



ITEM	LIGHT DUTY PAVEMENT SECTION	ITEM	HEAVY DUTY PAVEMENT SECTION
PG 64-22 (9.5mm SUPERPAVE MIX WEARING COURSE)	1.5"	PG 64-22 (9.5mm SUPERPAVE MIX WEARING COURSE)	2"
PG 64-22 (19mm SUPERPAVE MIX BINDER COURSE)	2"	PG 64-22 (19mm SUPERPAVE MIX BINDER COURSE)	3"
PG 64-22 (25mm SUPERPAVE MIX BASE COURSE)	6"	PG 64-22 (25mm SUPERPAVE MIX BASE COURSE)	8"
PENNDOT TYPE 2A AGGREGATE SUB-BASE COURSE	6"	PENNDOT TYPE 2A AGGREGATE SUB-BASE COURSE	6"

NOTES:

- PRIOR TO PLACEMENT OF PADOT CLASS 4 GEOTEXTILE, THE PAVEMENT SUBGRADE SHALL BE PREPARED AS FOLLOWS:

A. PAVEMENT SUBGRADE SHALL BE PROOFROLLED USING A FULLY-LOADED DUMP TRUCK PRIOR TO PAVEMENT CONSTRUCTION. ANY SOFT AREAS SHALL BE OVEREXCAVATED TO A FIRM AND COMPETENT MATERIAL AND BACKFILLED AS DESCRIBED IN 1B.

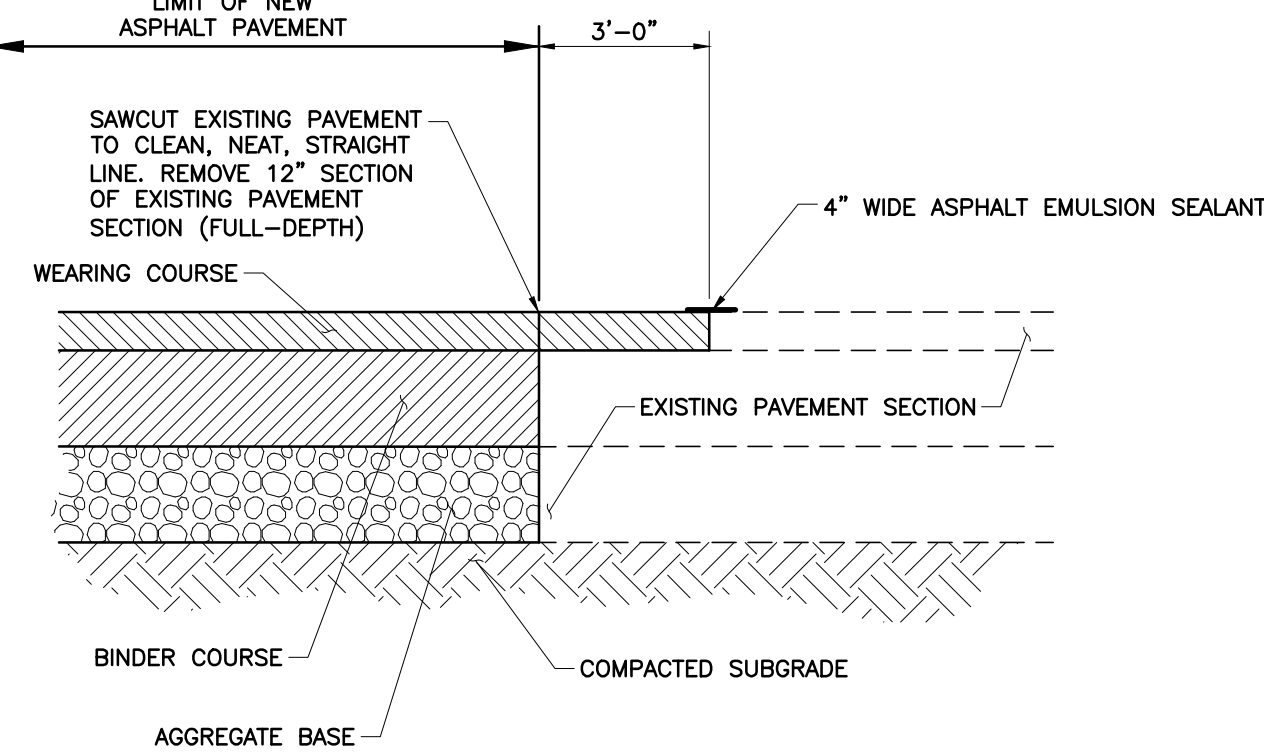
B. ALL APPROVED FILL SHALL BE PLACED IN MAXIMUM 8" THICK, LOOSE LIFTS AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AND WITHIN ±3% OF ITS OPTIMUM MOISTURE CONTENT. THE FILL MATERIAL'S MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).

C. AFTER COMPACTION, THE PAVEMENT SUBGRADE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION WITH NO SUDDEN, SHARP OR ABRUPT CHANGES OR BREAKS IN GRADES. NO STANDING WATER OR EXCESS MOISTURE SHALL BE PRESENT. ALL SOFT AND YIELDING AREAS SHALL BE REWORKED BY OVEREXCAVATING TO A FIRM AND COMPETENT MATERIAL, AND BACKFILLED AS DESCRIBED IN 1B.

D. THE SUBGRADE SHALL BE GRADED AND SHAPED AS REQUIRED TO CONSTRUCT THE AGGREGATE BASE COURSE IN CONFORMANCE WITH THE GRADES, LINES AND THICKNESSES SHOWN ON THE DRAWINGS.

- THE ASPHALT COURSES SHALL BE TAPERED INTO THE STORM SEWER INLETS WHILE MAINTAINING FULL PAVEMENT SECTION DEPTH.

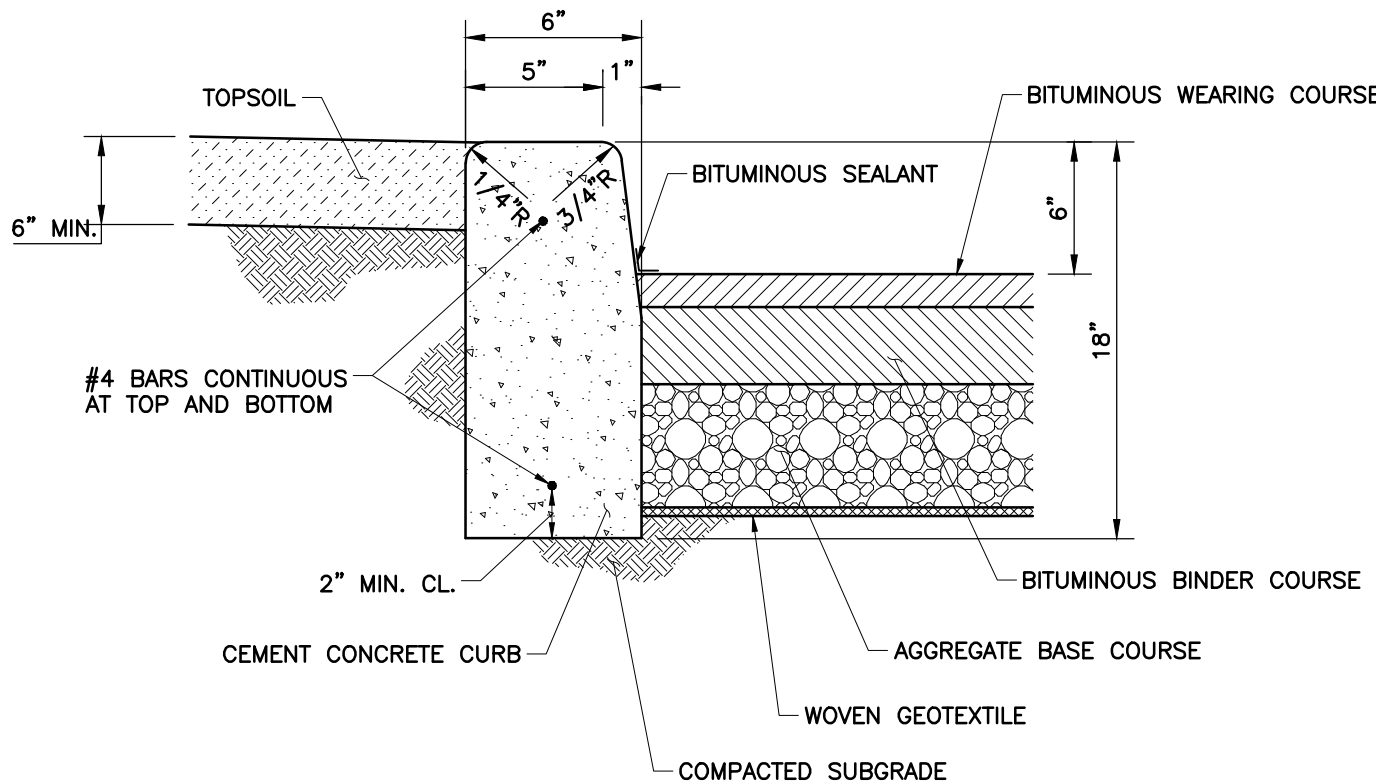
DETAIL 21
PAVEMENT SECTION W/ GEOTEXTILE
N.T.S.



NOTE:

- PROVIDE TACK COAT ALONG SAWCUT TO BIND EXISTING PAVEMENT TO NEW PAVEMENT. FOR AREAS WITH PATCHING AND OVERLAY, PROVIDE TACK COAT TO BIND EXISTING PAVEMENT WITH NEW ASPHALT.
- THIS DETAIL APPLIES TO ALL AREAS WHERE PROPOSED PAVEMENT IS INSTALLED ABUTTING EXISTING PAVEMENT, OR AS NOTED ON PLANS.

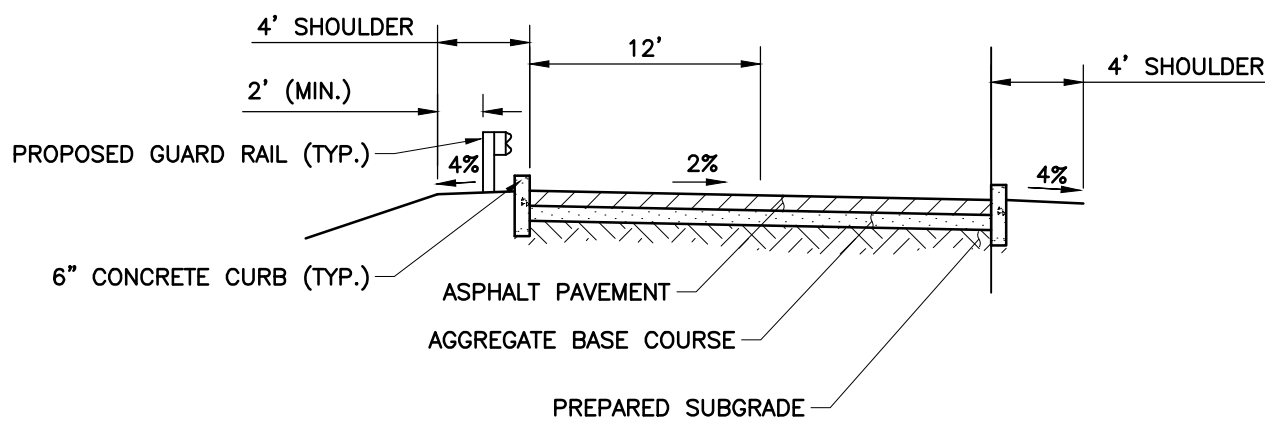
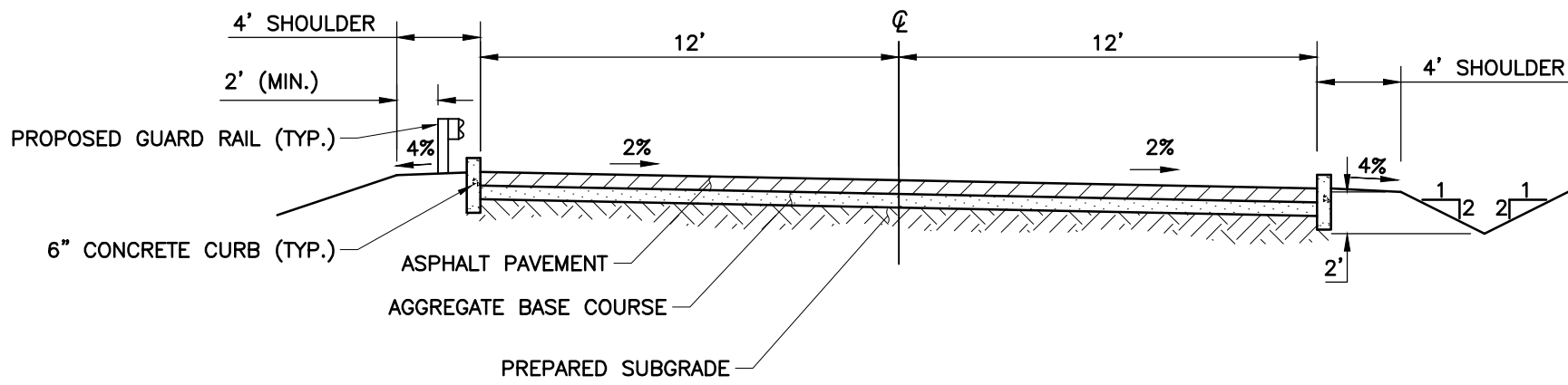
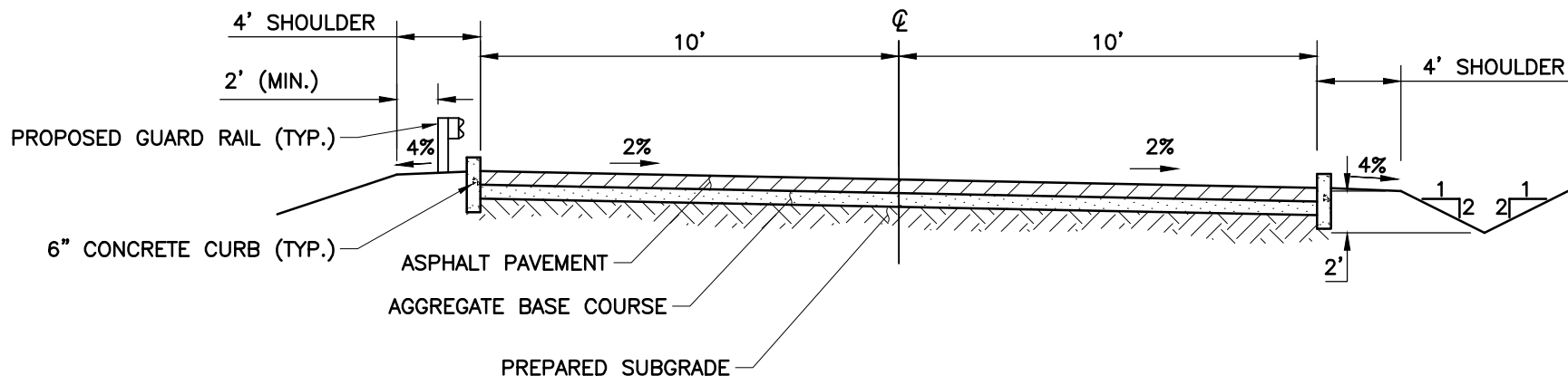
DETAIL 25
SAWCUT AND PAVEMENT JOINT
N.T.S.



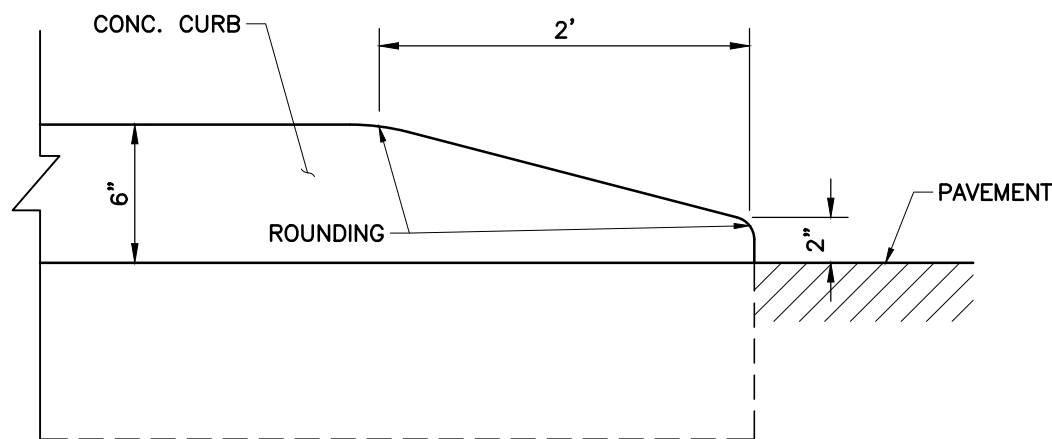
NOTES:

- CONCRETE SHALL BE CLASS "A" 4,000 PSI UNLESS OTHERWISE NOTED.
- EXPANSION JOINTS TO BE PLACED AT 30'-0" O.C. AND AT ALL STRUCTURES AND DRIVEWAYS.
- CONTROL JOINTS TO BE PLACED AT 15'-0" O.C.
- MATCH JOINTS IN CONCRETE CURBS WITH PROPOSED PAVEMENT JOINTS.

DETAIL 26
CONCRETE CURB
N.T.S.



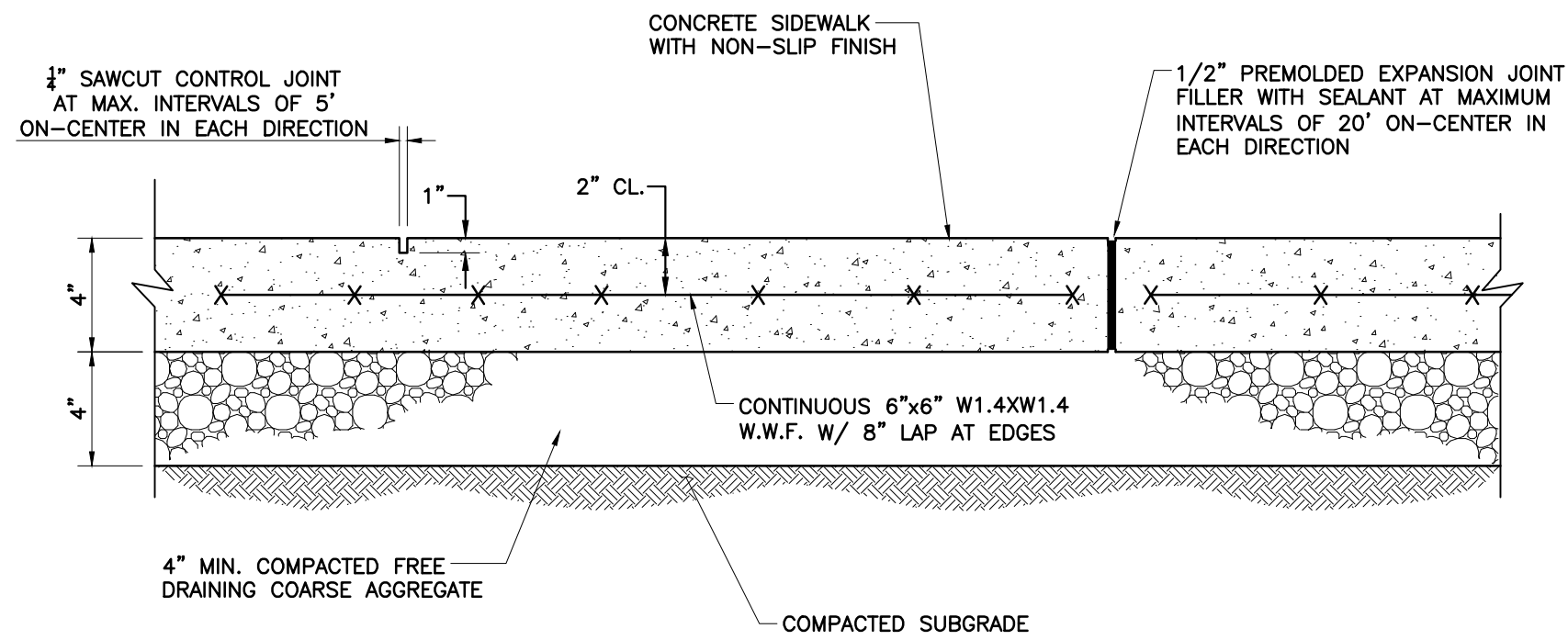
DETAIL 22
ROADWAY SECTION
N.T.S.



NOTES:

- CONCRETE SHALL BE CLASS "A" 4,000 PSI UNLESS OTHERWISE NOTED.
- EXPANSION JOINTS TO BE PLACED AT 30'-0" O.C. AND AT ALL STRUCTURES AND DRIVEWAYS.
- CONTROL JOINTS TO BE PLACED AT 15'-0" O.C.
- MATCH JOINTS IN CONCRETE CURBS WITH PROPOSED PAVEMENT JOINTS.

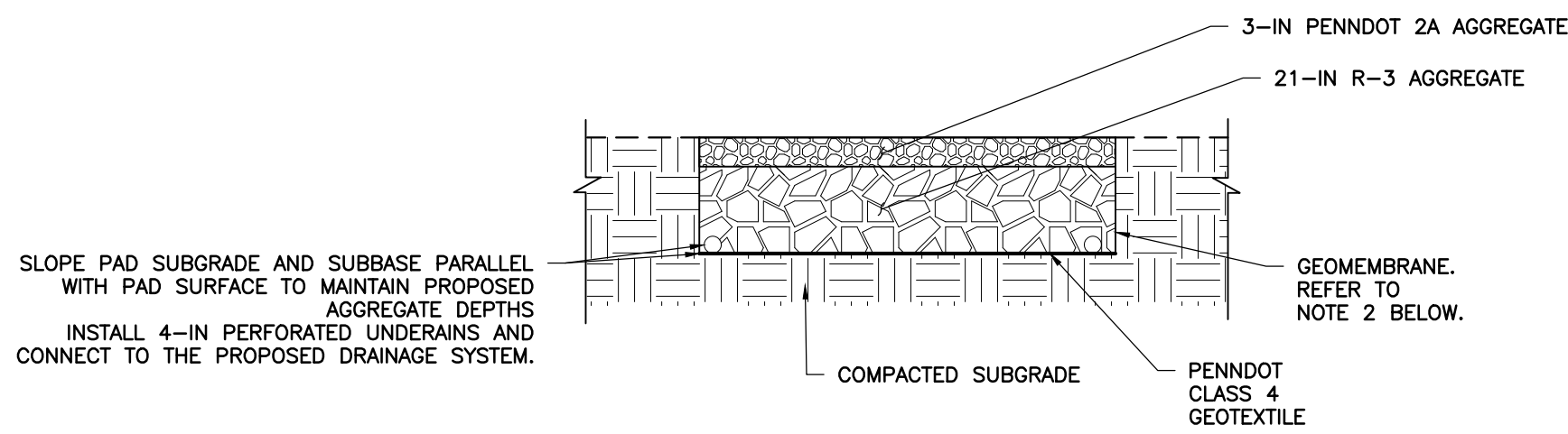
DETAIL 27
NOSE DOWN CURB
NOT TO SCALE



NOTES:

- PROVIDE AN 8" WIDE HAUNCH CARRIED TO FROST DEPTH, AND 1/2" EXPANSION JOINT FILLER WITH SEALANT WHERE THE CONCRETE SIDEWALK ABUTS THE BUILDING.
- PROVIDE MEDIUM BROOM FINISH.
- CONCRETE SHALL BE CLASS "A" 4,000 PSI UNLESS OTHERWISE NOTED.

DETAIL 23
CONCRETE SIDEWALK
N.T.S.



NOTE:

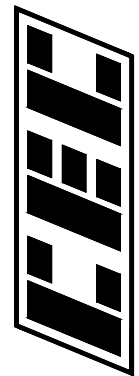
- FURNISH AND INSTALL MATERIALS IN ACCORDANCE WITH PENNDOT PUB 408, LATEST EDITION.
- GRAVEL AREAS LOCATED WITHIN, BENEATH, OR IMMEDIATELY ADJACENT TO IDENTIFIED OR SUSPECTED CONTAMINATION ZONES SHALL BE LINED WITH SEAMAN CORPORATION XR-5® GEOMEMBRANE OR APPROVED EQUAL. GRAVEL AREAS LOCATED OUTSIDE IDENTIFIED CONTAMINATION ZONES MAY BE LINED WITH SEAMAN CORPORATION XR-3® GEOMEMBRANE OR APPROVED EQUAL, SUBJECT TO CONTRACTOR VERIFICATION OF SITE CONDITIONS AND MANUFACTURER'S CONFIRMATION OF CHEMICAL COMPATIBILITY. CONTRACTOR REMAINS RESPONSIBLE FOR LINER SELECTION, INSTALLATION, AND PERFORMANCE BASED ON MANUFACTURER'S SPECIFICATIONS.

DETAIL 24
GRAVEL AREA
N.T.S.

REVISION RECORD

NO.	DATE	DESCRIPTION
1	04/18/2026	RESPONSE TO ACOMPLETENESS LETTER DATED 04/08/2026
2	04/18/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2024
3	04/18/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 09/16/2024

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Consultants, Inc.

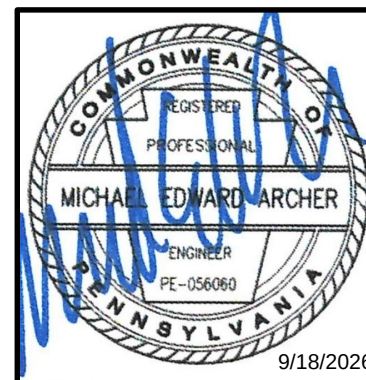
MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA

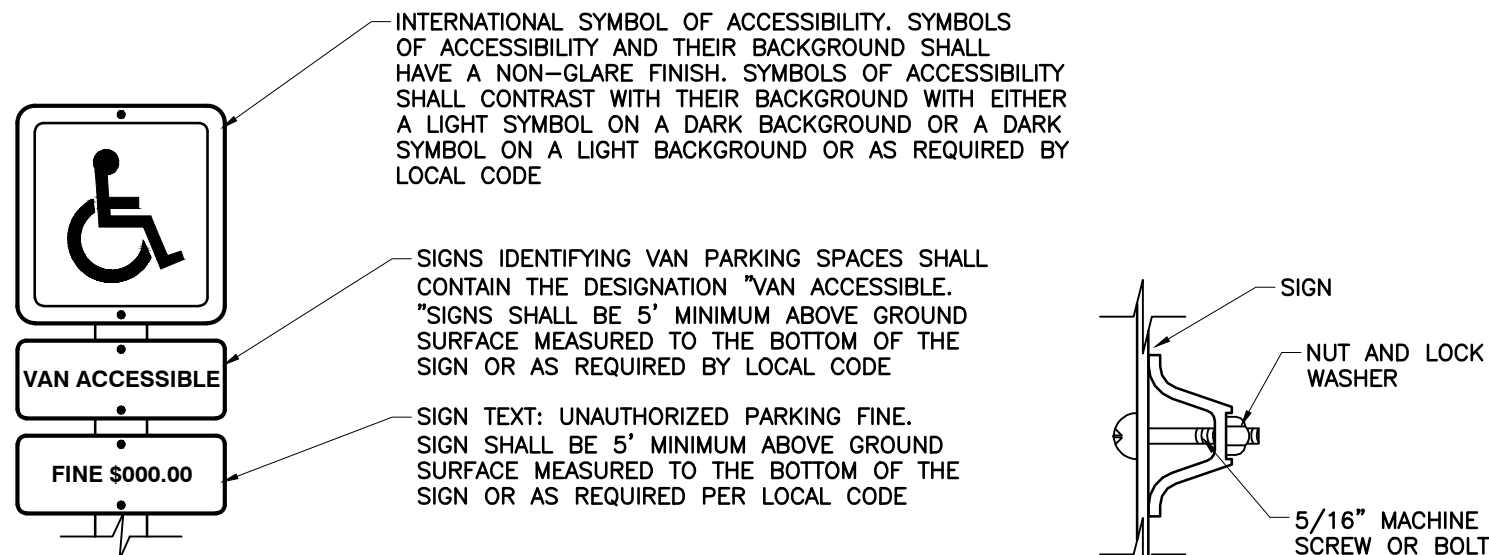
CONSTRUCTION DETAILS

DATE:	APRIL 2026	DRAWN BY:	VMF
DWG SCALE:	N.A.	CHECKED BY:	BJH
PROJECT NO:	353-024		
APPROVED BY:			RLM

DRAWING NO:
C800

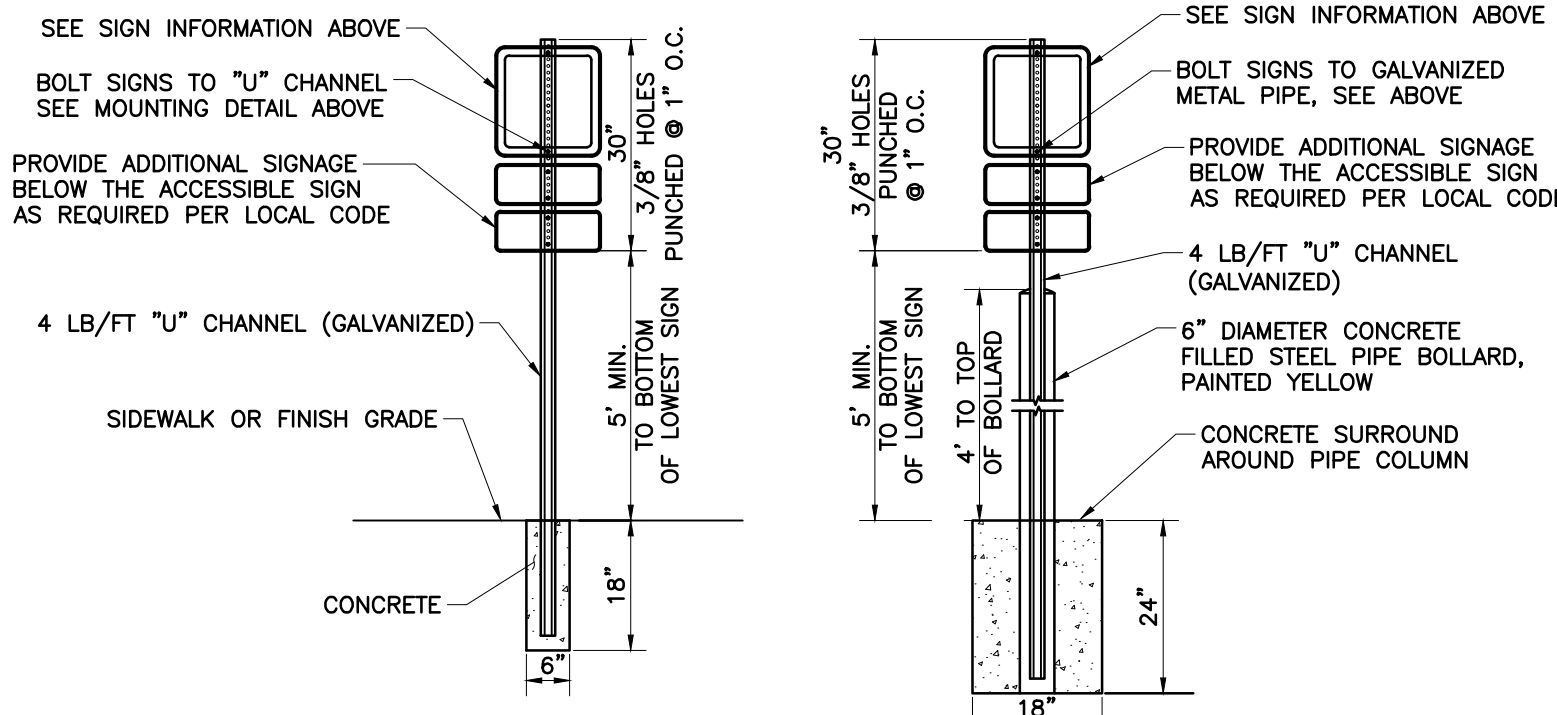
SHEET 31 OF 41





SIGN INFORMATION

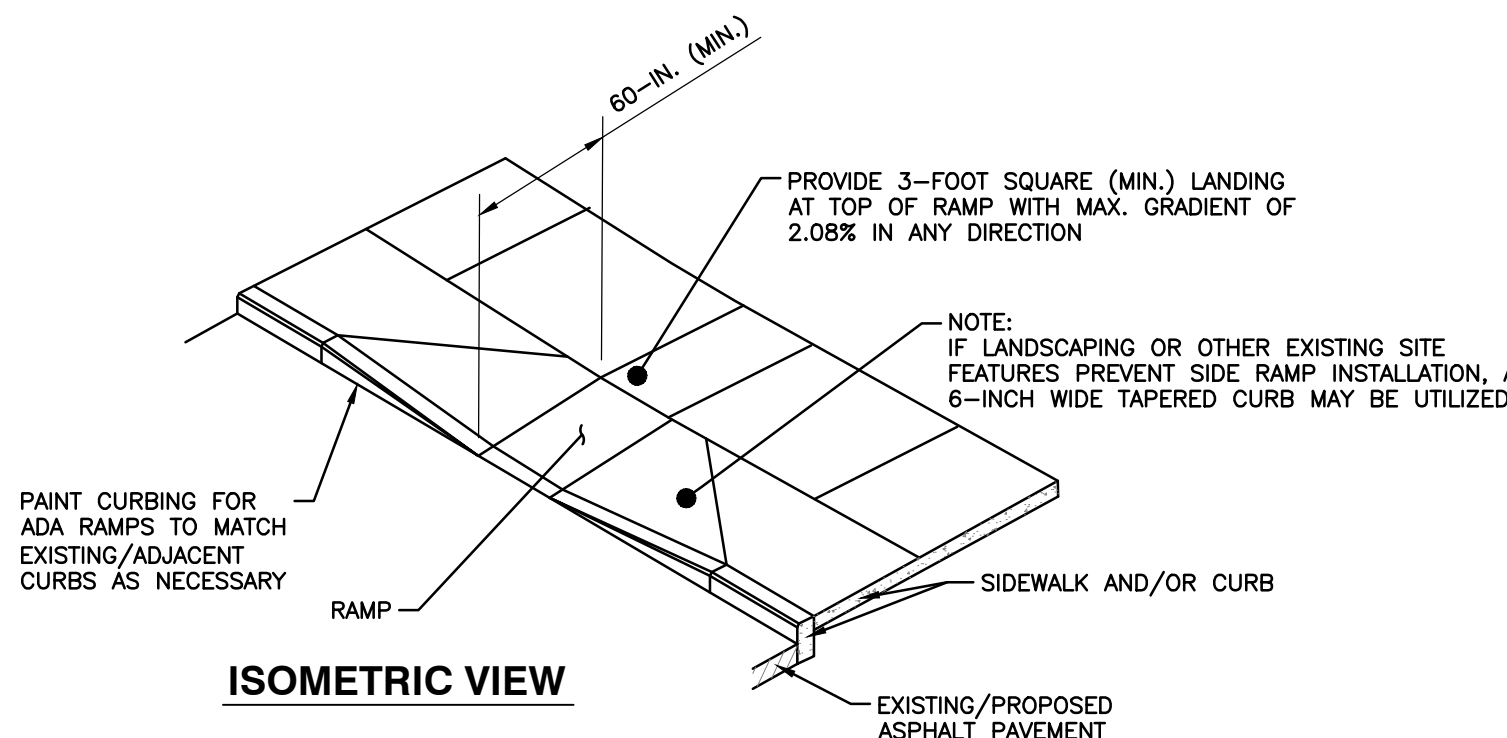
SIGN MOUNTING



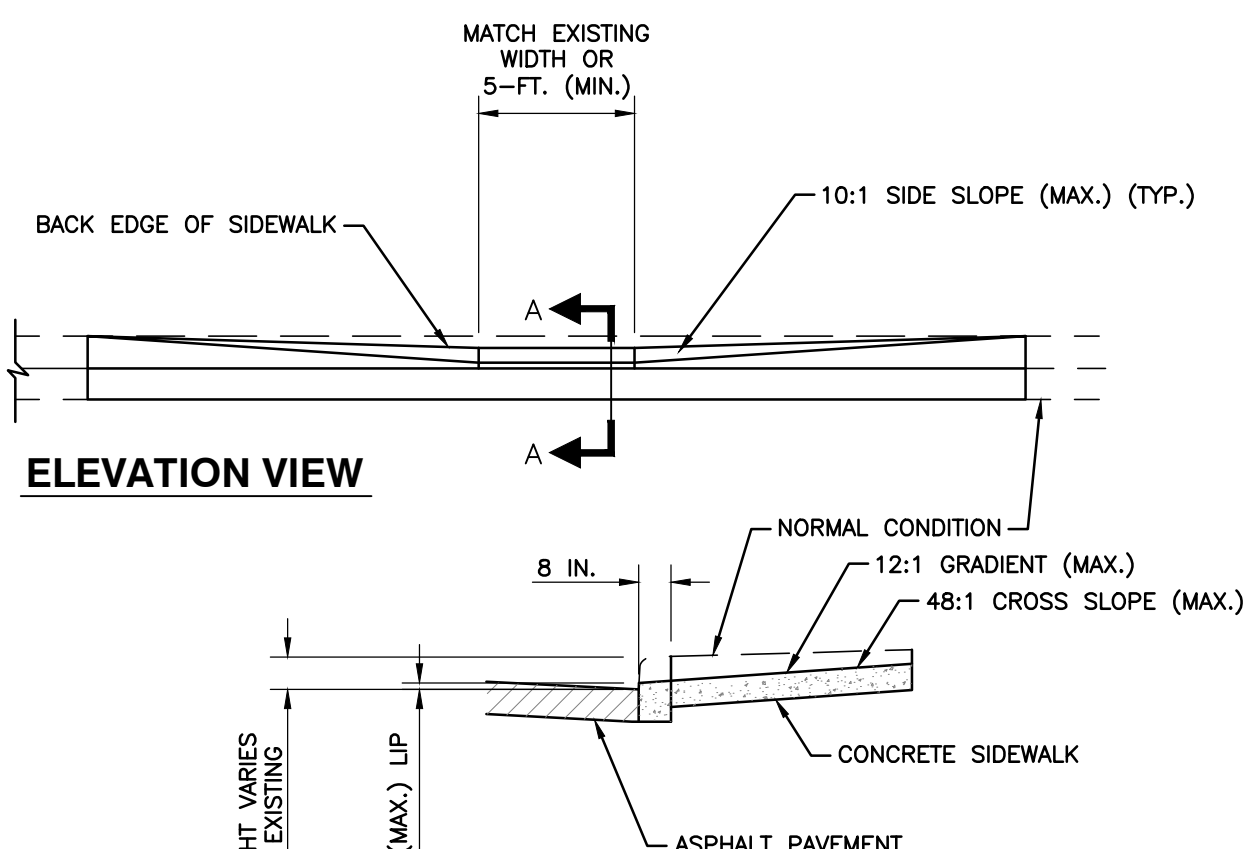
"U" CHANNEL INSTALLATION

ALTERNATE BOLLARD INSTALLATION

DETAIL 28
ACCESSIBLE PARKING SIGN
N.T.S.



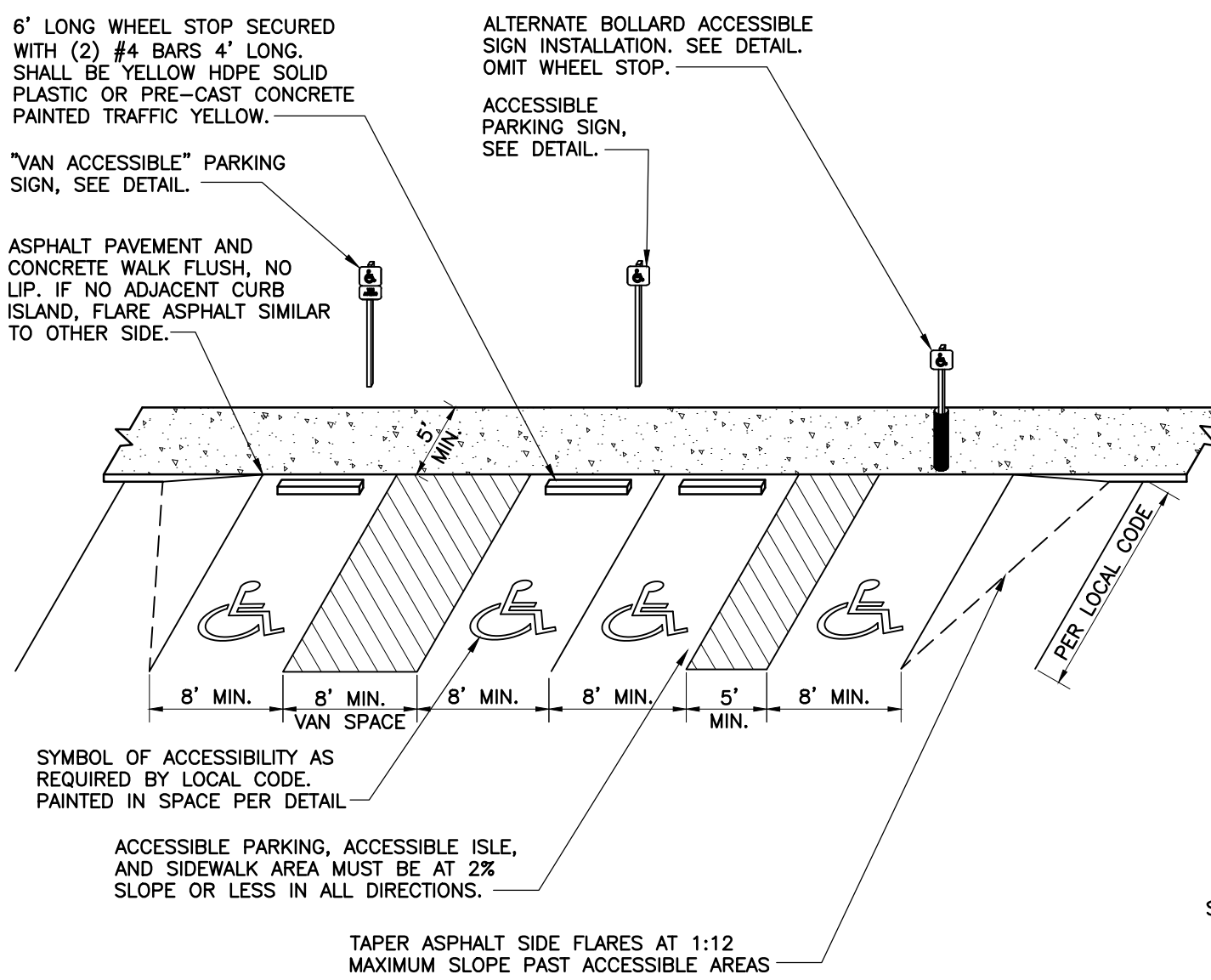
ISOMETRIC VIEW



CROSS SECTION A-A

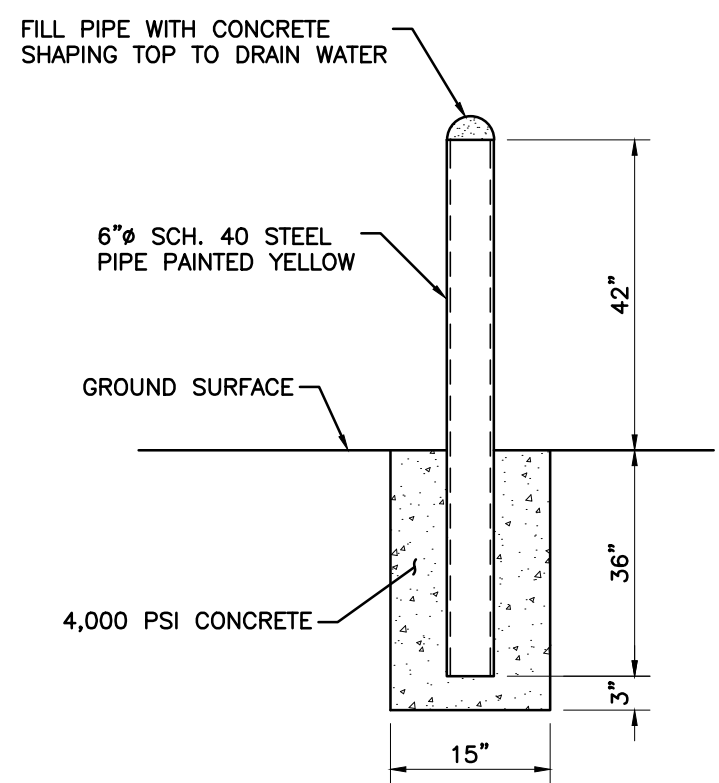
- NOTES:
1. RAMP SHALL NOT EXCEED A 12:1 SLOPE.
 2. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PENNDOT SPECIFICATIONS FOR CONCRETE.
 3. BROOM FINISH ALL CONCRETE. CURBING COMPOUND SHALL BE CURE & SEAL BY DAYTON SUPERIOR.
 4. NO CONCRETE SHALL BE POURED UNTIL FORMS AND SUBGRADE HAVE BEEN INSPECTED AND APPROVED BY COA CONSULTANT.

DETAIL 34
ACCESSIBLE CURB RAMP
N.T.S.

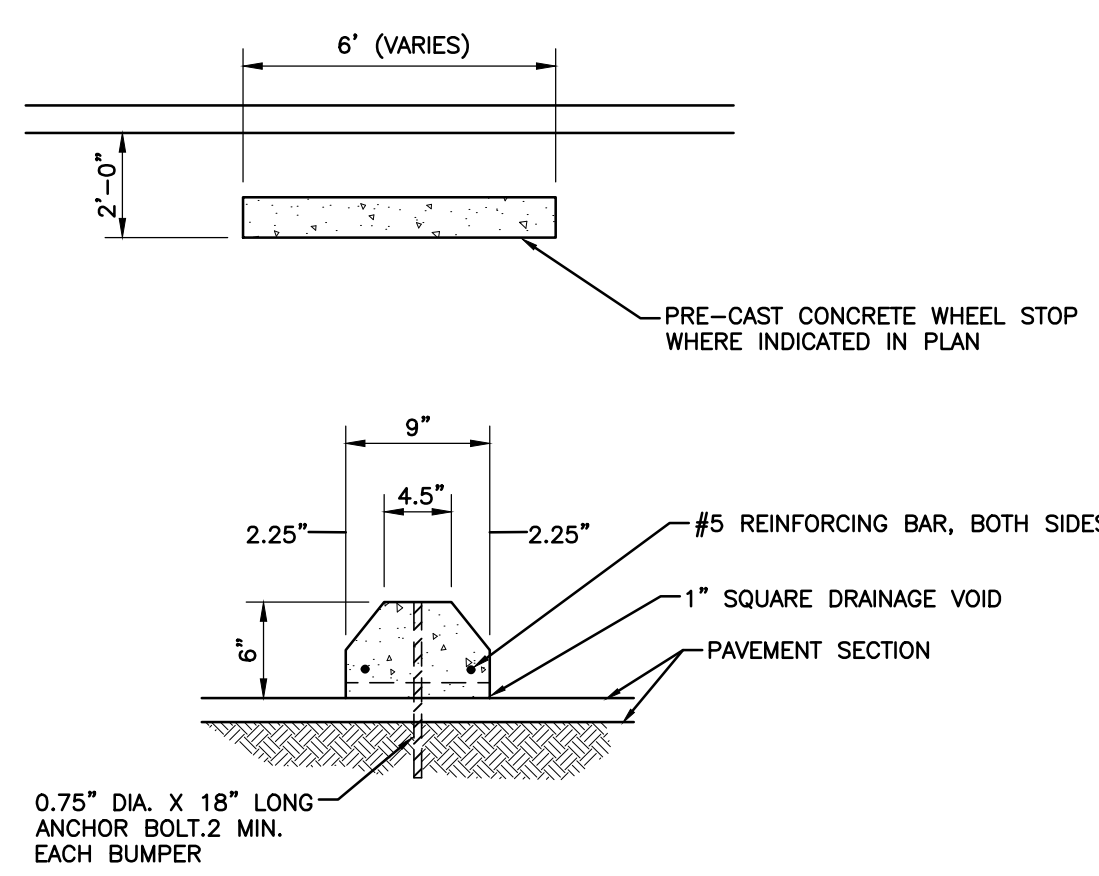


- NOTES:
1. ACCESSIBLE PARKING SPACE AND ACCESSIBLE ISLE: MAXIMUM 2.0% SLOPE IN ANY DIRECTION.
 2. ASPHALT TO CONCRETE BLENDED TRANSITION TO BE COMPLETELY FLUSH, NO LIP.
 3. PLACEMENT AND STRIPING SHOWN IN DETAIL IS SCHEMATIC, SEE SITE PLAN FOR CONFIGURATION.
 4. ACCESSIBLE ISLE SHALL BE PAINT STRIPED AT 45° ANGLE, EACH 6" WIDE STRIPE AT 24" ON CENTER.

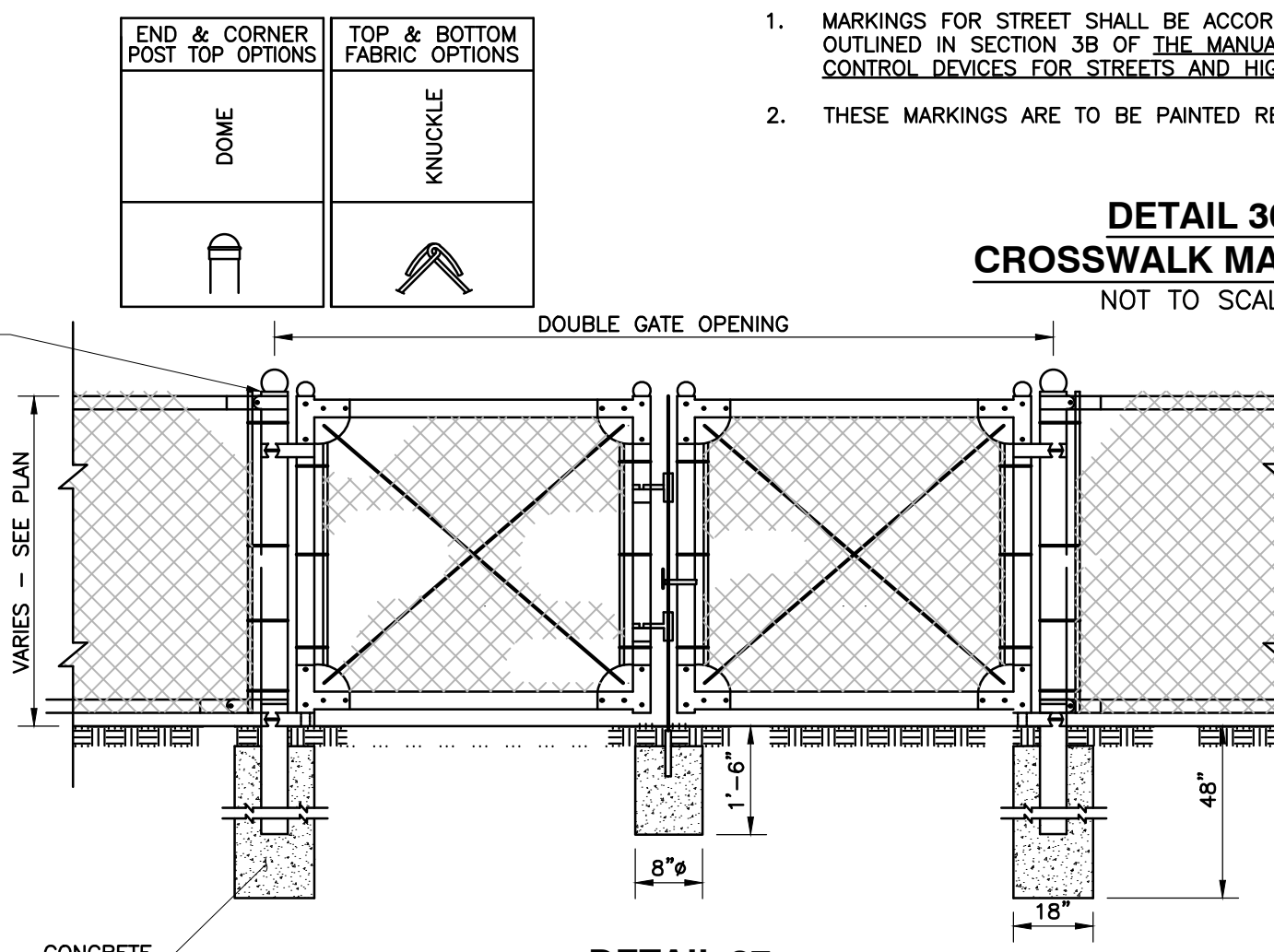
DETAIL 29
ACCESSIBLE PARKING STALL
N.T.S.



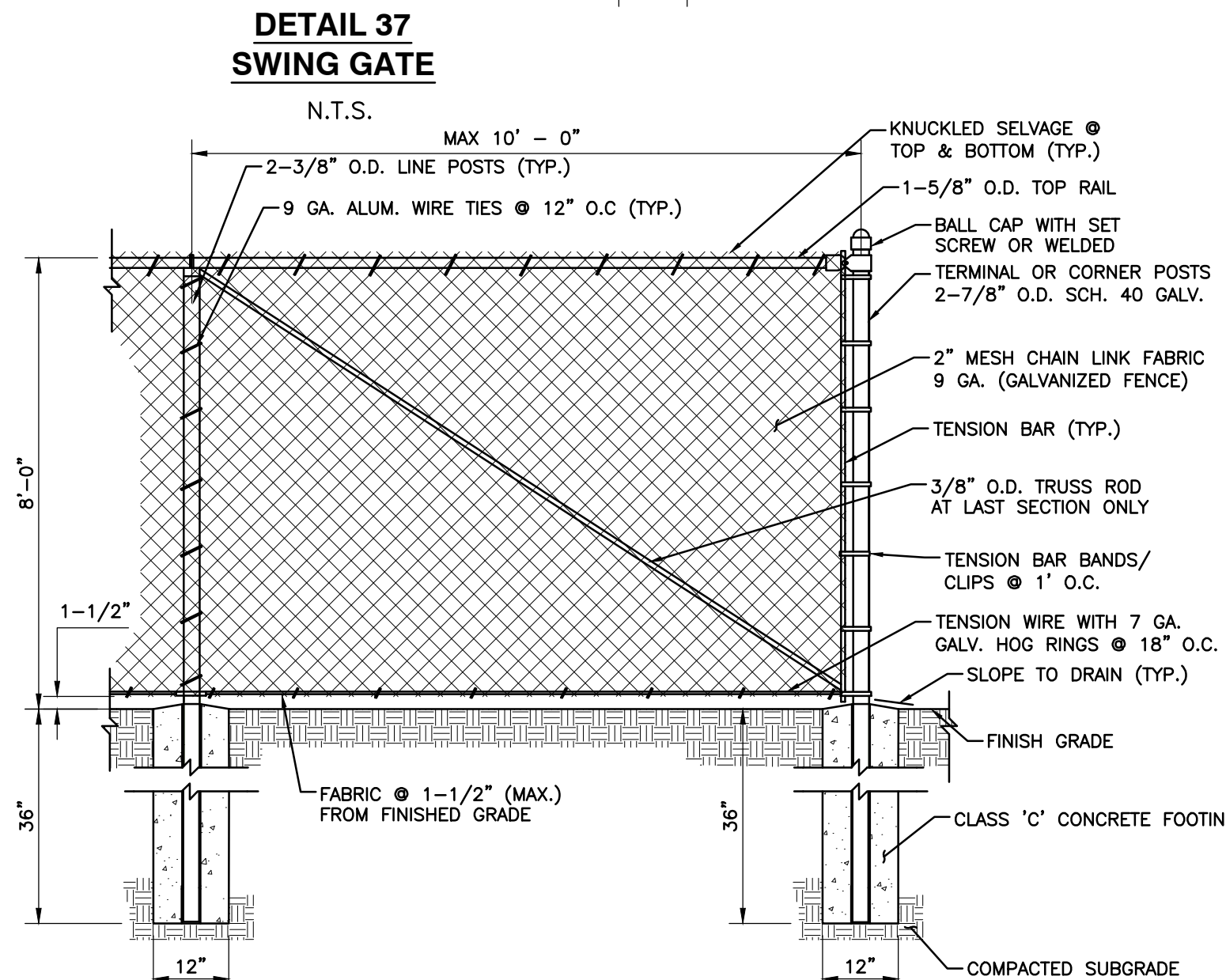
DETAIL 35
BOLLARD
N.T.S.



DETAIL 36
WHEEL STOP
N.T.S.

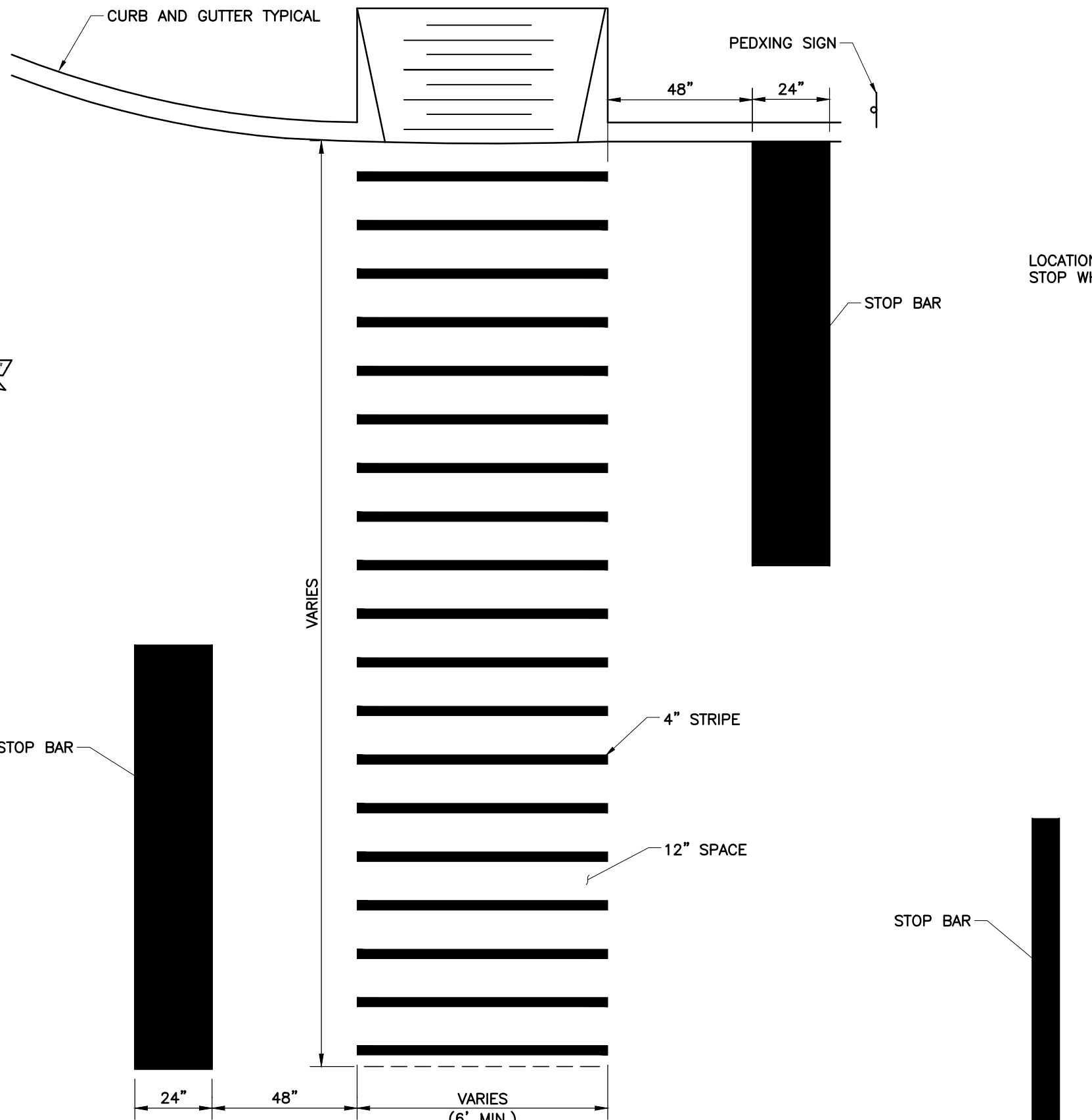


DETAIL 30
CROSSWALK MARKINGS
NOT TO SCALE



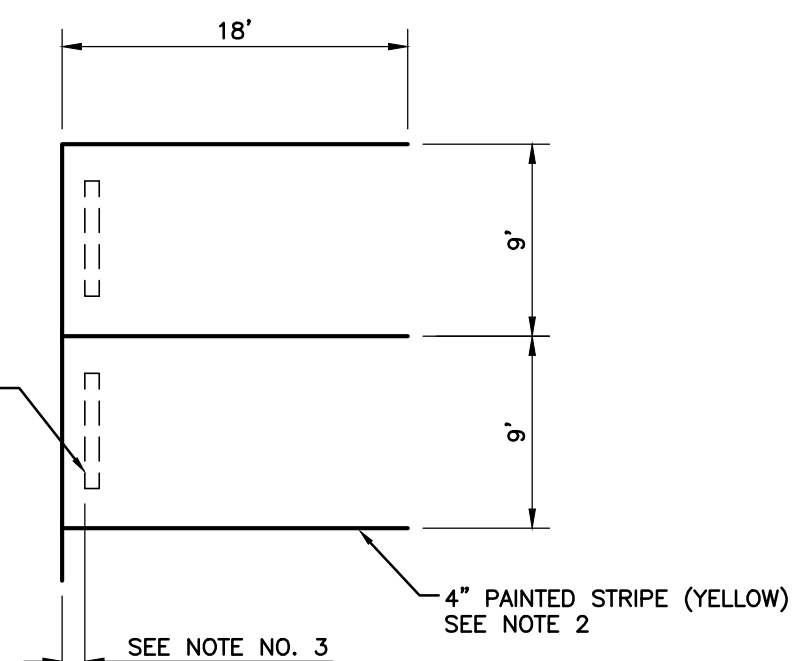
- NOTES:
1. MATERIALS FOR CONSTRUCTION SHALL BE GALVANIZED COATED STEEL.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.

DETAIL 38
SECURITY FENCE
N.T.S.

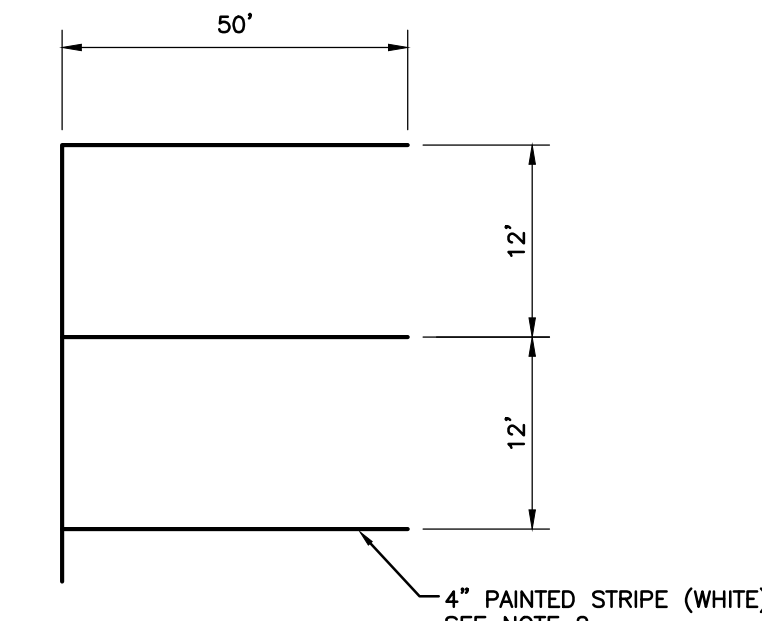


DETAIL 31
8" WHITE STOP BAR
NOT TO SCALE

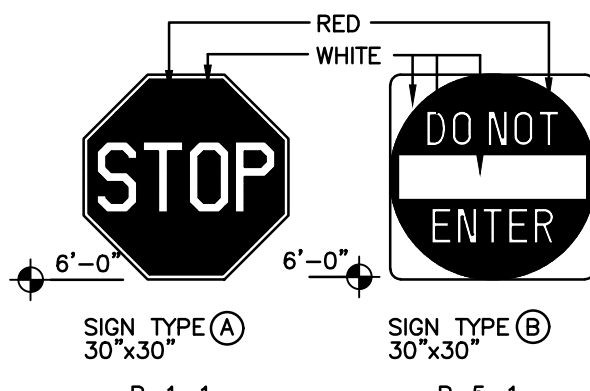
- NOTES:
1. MARKINGS FOR STREET SHALL BE ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
 2. THESE MARKINGS ARE TO BE PAINTED REFLECTIVE WHITE.



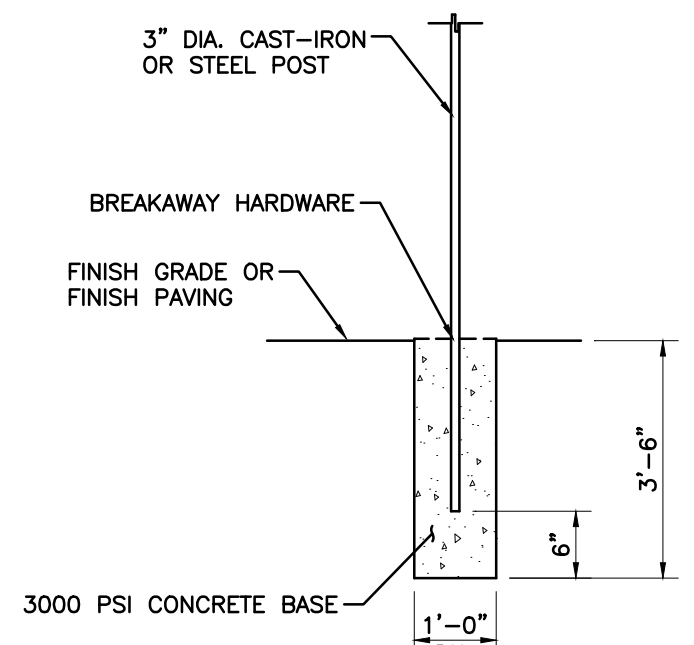
DETAIL 32
TYPICAL PARKING STALL
N.T.S.



DETAIL 33
TYPICAL LOADING STALL
N.T.S.



DETAIL 40
PRIVATE SITE SIGN
N.T.S.



DETAIL 39
NOT USED
N.T.S.

REVISION RECORD

NO.	DATE	DESCRIPTION
1	04/10/2024	RESPONSE TO INCOMPLETE LETTER DATED 04/10/2024
2	04/11/2024	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/10/2024
3	04/11/2024	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 08/10/2024

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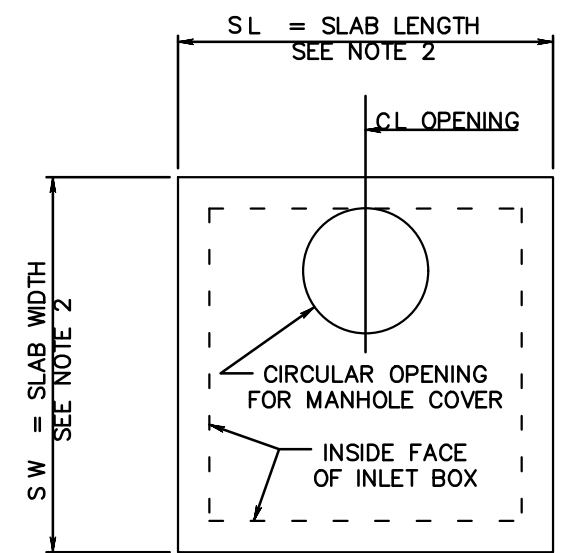
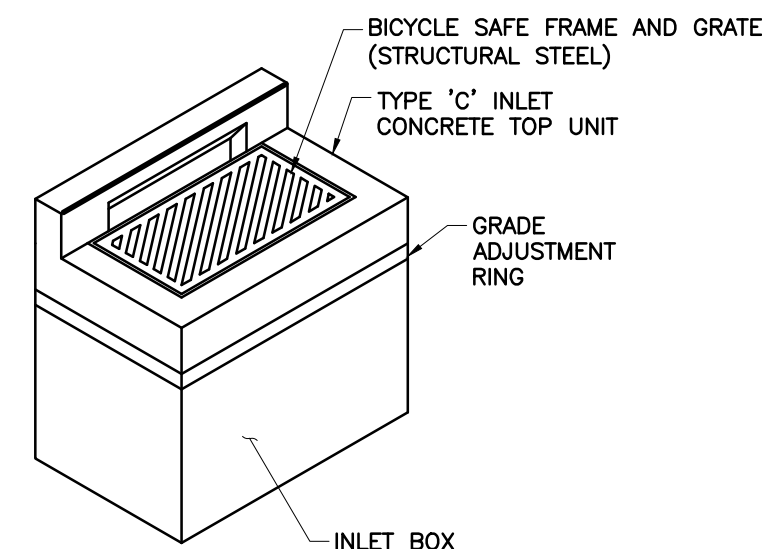
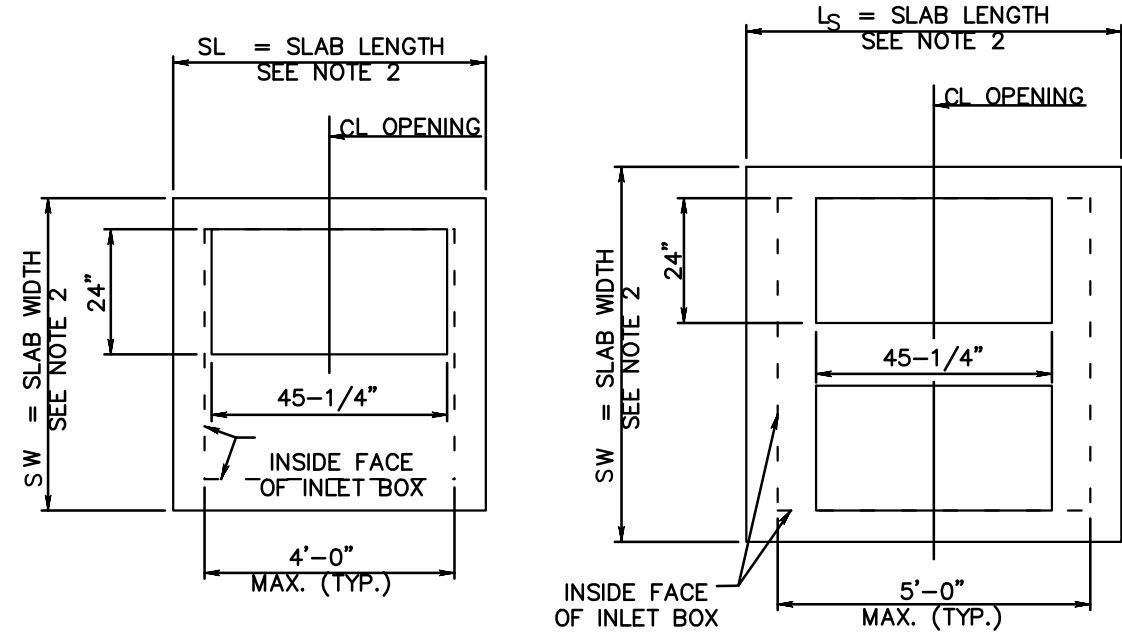


MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA

CONSTRUCTION DETAILS

DATE:	APRIL 2025	DRAWN BY:	VMF
DWG SCALE:	N/A	CHECKED BY:	BJH
PROJECT NO:	353-024	APPROVED BY:	RM

DRAWING NO: C801



TYPE 4 OR 5 INLET BOX

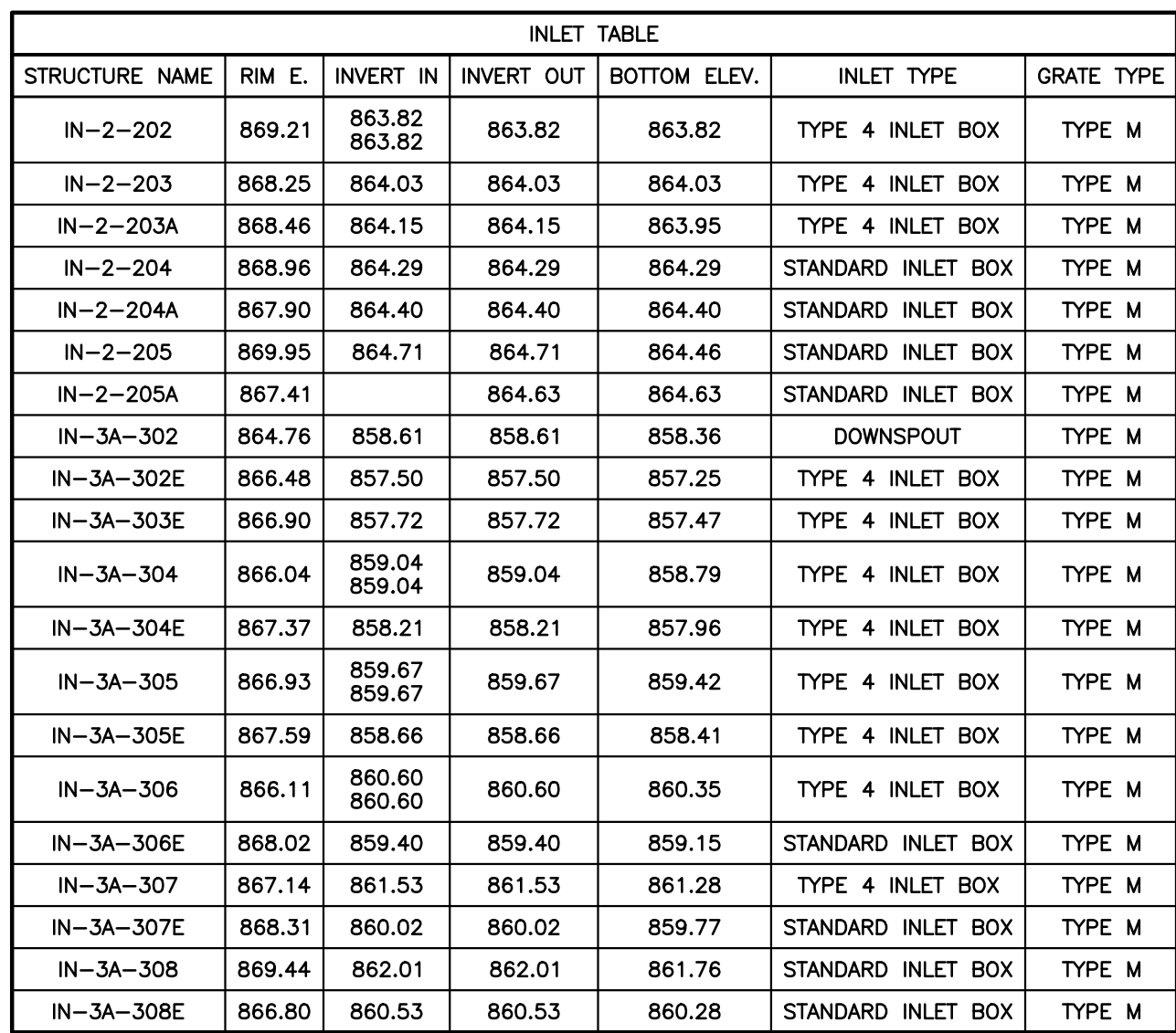


- NOTES:**
1. FOR ADDITIONAL NOTES, REFER TO PENNDOT PUBLICATION 72M, RC-46M FOR DETAILS FOR THE CONCRETE TOP UNITS, FRAMES, AND GRATES.
 2. OUT TO OUT DIMENSIONS OF TOP SLABS TO MATCH SIZE OF INLET BOX.
 3. SET EDGE OF OPENING AT INSIDE FACE OF INLET BOX FOR ACCESS, IF POSSIBLE.

INLET WITH SUMP NOTES:

1. SMALL WEEP HOLES SHOULD BE DRILLED INTO THE BOTTOM OF THE INLET TO PREVENT STANDING WATER FOR LONG PERIODS OF TIME.

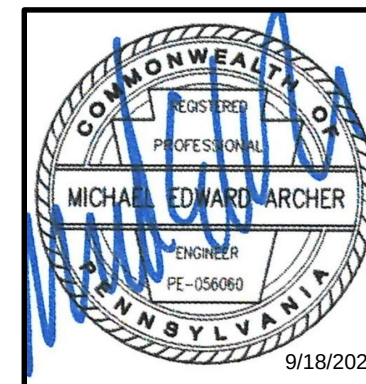
- LEGEND**
- ① OUTSIDE DIAMETER OF PIPE TO PIPE OPENING
- ② REDUCTION IN WALL THICKNESS DIMENSION
INSIDE FACE OF BOX WALL TO OUTSIDE DIAMETER OF
PIPE OPENING



INLET TABLE						
STRUCTURE NAME	RM E.	INVERT IN	INVERT OUT	BOTTOM ELEV.	INLET TYPE	GRATE TYPE
IN-3A-309E	866.04		861.00	860.75	STANDARD INLET BOX	TYPE M
IN-3A-311	871.38	865.47	865.47	865.47	STANDARD INLET BOX	TYPE M
IN-3A-312	871.32	865.88	865.88	865.88	STANDARD INLET BOX	TYPE M
IN-3A-313	871.28		866.29	866.04	STANDARD INLET BOX	TYPE M
IN-3B-300	867.51	860.22 855.75	856.00	855.60	TYPE 4 INLET BOX	TYPE M
IN-3B-300C	862.96	857.99 858.11	856.00	855.75	TYPE 4 INLET BOX	TYPE M
IN-3B-300G	867.01		856.00	855.75	STANDARD INLET BOX	TYPE M
IN-3B-301	868.34	860.65	860.65	860.65	TYPE 4 INLET BOX	TYPE M
IN-3B-301C	864.78	859.78	859.78	859.53	STANDARD INLET BOX	TYPE M
IN-3B-301I	863.76		858.80	858.80	STANDARD INLET BOX	TYPE M
IN-3B-302	867.39	860.98	860.98	860.98	TYPE 4 INLET BOX	TYPE M
IN-3B-302C	865.61	860.77 860.77	860.77	859.78	STANDARD INLET BOX	TYPE M
IN-3B-303	867.00	861.44 861.44	861.44	861.44	STANDARD INLET BOX	TYPE M
IN-3B-303C	866.47	861.46 862.03	861.46	861.46	STANDARD INLET BOX	TYPE M
IN-3B-304	866.93	861.93	861.93	861.93	STANDARD INLET BOX	TYPE M
IN-3B-304C	867.11	862.11 862.11	862.11	862.11	TYPE 4 INLET BOX	TYPE M
IN-3B-305C	867.74	863.02	863.02	863.02	STANDARD INLET BOX	TYPE M
IN-3B-305F	866.48	862.27	862.27	862.27	TYPE 4 INLET BOX	TYPE M
IN-3B-306C	868.38		863.38	863.38	STANDARD INLET BOX	TYPE M
IN-3B-306F	868.79		862.54	862.29	STANDARD INLET BOX	TYPE M

- NOTES:**
1. ALL WELDING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 1105.03(m).
 2. ALL BEARING BARS AND PERIMETER BARS SHALL BE ASTM A572 GRADE 50 STEEL. ALL CROSS BARS SHALL BE A36 STEEL.
 3. ALL CROSS BARS SHALL BE LOCATED FLUSH ALONG THE TOP SURFACE OF THE GRATE.
 4. COAT GRATES WITH AN APPROVED BITUMINOUS PAINT, IN ACCORDANCE WITH PUBLICATION 408, SECTION 605.2(d), IN THE SHOP OF FIELD PRIOR TO INSTALLATION.
 5. AS AN ALTERNATE TO BITUMINOUS PAINT, GALVANIZE GRATES IN ACCORDANCE WITH PUBLICATION 408, SECTION 1105.02(s).

DETAIL 42
PENNDOT INLET GRATE
N.T.S.



REVISION RECORD		
NO	DATE	DESCRIPTION
1	06/11/2008	RESPONSE TO AGENCY COMMENTS ON THE INITIAL PLAN
2	06/11/2008	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 05/14/2008
3	06/11/2008	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 05/14/2008
ENGINEERING SURVEYING AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY THE CONSULTING ENGINEER AND LANDSCAPE ARCHITECT FIRM OF RECORD. THE FIRM OF RECORD WILL BE THE PROVIDER OF THE PROFESSIONAL SEAL AND PROFESSIONAL CERTIFICATION. THE ARCHITECTURE SURVEYING SERVICE SHALL BE PROVIDED BY C&S LANDSCAPE ARCHITECTS, LLC.		

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Civil & Environmental
Consultants, Inc.

**MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

CONSTRUCTION DETAILS

DATE:	APRIL 2026	DRAWN BY:	VMF
DWG SCALE:	N/A	CHECKED BY:	BUH
PROJECT NO:			
APPROVED BY:	353-024		
	RIM		

DRAWING NO.:
C802
SHEET **33** OF **4**



NOTES:

1. PER PADOT PUB. 408 SEC. 704 STANDARDS
2. REFER TO LOCAL STANDARDS FOR FURTHER DETAILS

MANHOLE COVER AND FRAME
N.T.S.

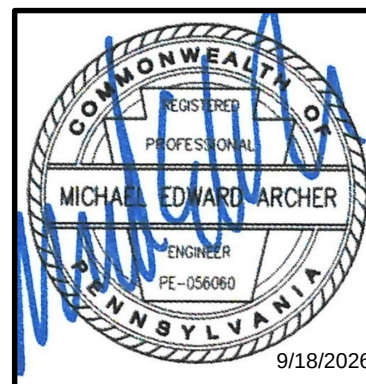
DETAIL 43
PRECAST CONCRETE MANHOLE
N.T.S.

MANHOLE TABLE			
STRUCTURE NAME	RIM E.	INVERT IN	INVERT OUT
MH-2-200	869.59	862.00	862.00
MH-2-200D	868.72	859.97 859.88	859.88
MH-3A-303	865.22	858.79	858.79
MH-3A-309	870.60	862.31	862.31
MH-3A-310	872.05	864.55	864.55

- NOTES:**
1. CONSTRUCT IN ACCORDANCE WITH THE REQUIREMENTS OF COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PADOT) PUBLICATION 408, SECTION 605.
 2. REFER TO PADOT BUREAU OF HIGHWAY DESIGN'S STANDARDS FOR ROADWAY CONSTRUCTION, SERIES RC-1M TO RC-101M, SHEETS 1 THROUGH 30 OF RC-39M, FOR DETAILS OF THE MANHOLE SECTIONS, GRADE ADJUSTMENT RINGS, STEPS, FRAMES AND COVERS.
 3. ALL CEMENT CONCRETE USED TO CONSTRUCT THE MANHOLES SHALL BE CLASS AA, AND SATISFY THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 704.
 4. ALL REINFORCEMENT STEEL USED TO CONSTRUCT THE MANHOLES SHALL BE ASTM-A615, GRADE 60, DEFORMED OR PLAIN STEEL BARS, AND SATISFY THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 709.1 AND 709.2 (IF APPLICABLE).
 5. PRE-CAST REINFORCED CONCRETE MANHOLE SECTIONS AND GRADE ADJUSTMENT RINGS SHALL CONFORM TO THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 714, AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI.
 6. ALL FRAMES AND COVERS/GRADES FOR STORM SEWER MANHOLES SHALL BE NON-ROCKING AND MADE OF HEAVY DUTY CAST IRON, AND SATISFY THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 605.2(b). ALL FRAMES SHALL BE SET IN A FULL BED OF MORTAR AND ANCHORED TO THE CONICAL TOP SECTION USING MINIMUM 4 ANCHOR BOLTS ON OPPOSITE SIDES.
 7. ALL GRADE ADJUSTMENT RINGS SHALL BE OF MASONRY OR PRECAST CONCRETE CONSTRUCTION.
 8. A RUBBER GASKET THAT SATISFIES THE REQUIREMENTS OF ASTM C-443 SHALL BE INSTALLED BETWEEN ALL STORM SEWER MANHOLE SECTIONS. INSTALL TWO CONTINUOUS RINGS OF BITUMINOUS MASTIC THAT SATISFY ASTM C-443 AT EACH JOINT FOR SANITARY SEWER MANHOLES.
 9. ALL MANHOLE SECTIONS SHALL BE SET IN PLACE IN NON-SHRINK MORTAR OR BITUMINOUS MATERIAL AND CONFORM TO THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 705.7.
 10. ALL MANHOLES SHALL HAVE LADDER RUNGS, SPACED 12 INCHES APART, TO FACILITATE ACCESS TO THE MANHOLE. SEE PLASTIC MANHOLE/INLET STEP DETAIL. ALL LADDER RUNGS MUST MEET THE PERFORMANCE CRITERIA OF ASTM C478.
 11. A MINIMUM OF 12" OF ASHTO #57 STONE SHALL BE USED AS BEDDING FOR THE MANHOLES. THE ASHTO #57 STONE SHALL BE PLACED IN MAXIMUM 6-INCH THICK LOSTE LIFTS AND COMPACTED TO AT LEAST 75% OF ITS RELATIVE DENSITY. ALL ASHTO #57 STONE SHALL BE CRUSHED LIMESTONE AND SATISFY THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 703. ALL SOIL BACKFILL PLACED AROUND THE MANHOLES, AND ABOVE THE BEDDING, SHALL BE PLACED IN MAXIMUM 8-INCH THICK LOSTE LIFTS AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AND WITHIN $\pm 3\%$ OF ITS OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).

MANHOLE TABLE

STRUCTURE NAME	RIM E.	INVERT IN	INVERT OUT
MH-2-200	869.59	862.00	862.00
MH-2-200D	868.72	859.97 859.88	859.88
MH-3A-303	865.22	858.79	858.79
MH-3A-309	870.60	862.31	862.31
MH-3A-310	872.05	864.55	864.55



CONSTRUCTION DETAILS

CONSTRUCTION DETAILS	
DATE:	APRIL 2026
DWG SCALE:	N.A.
PROJECT NO:	353-024
APPROVED BY:	RIM

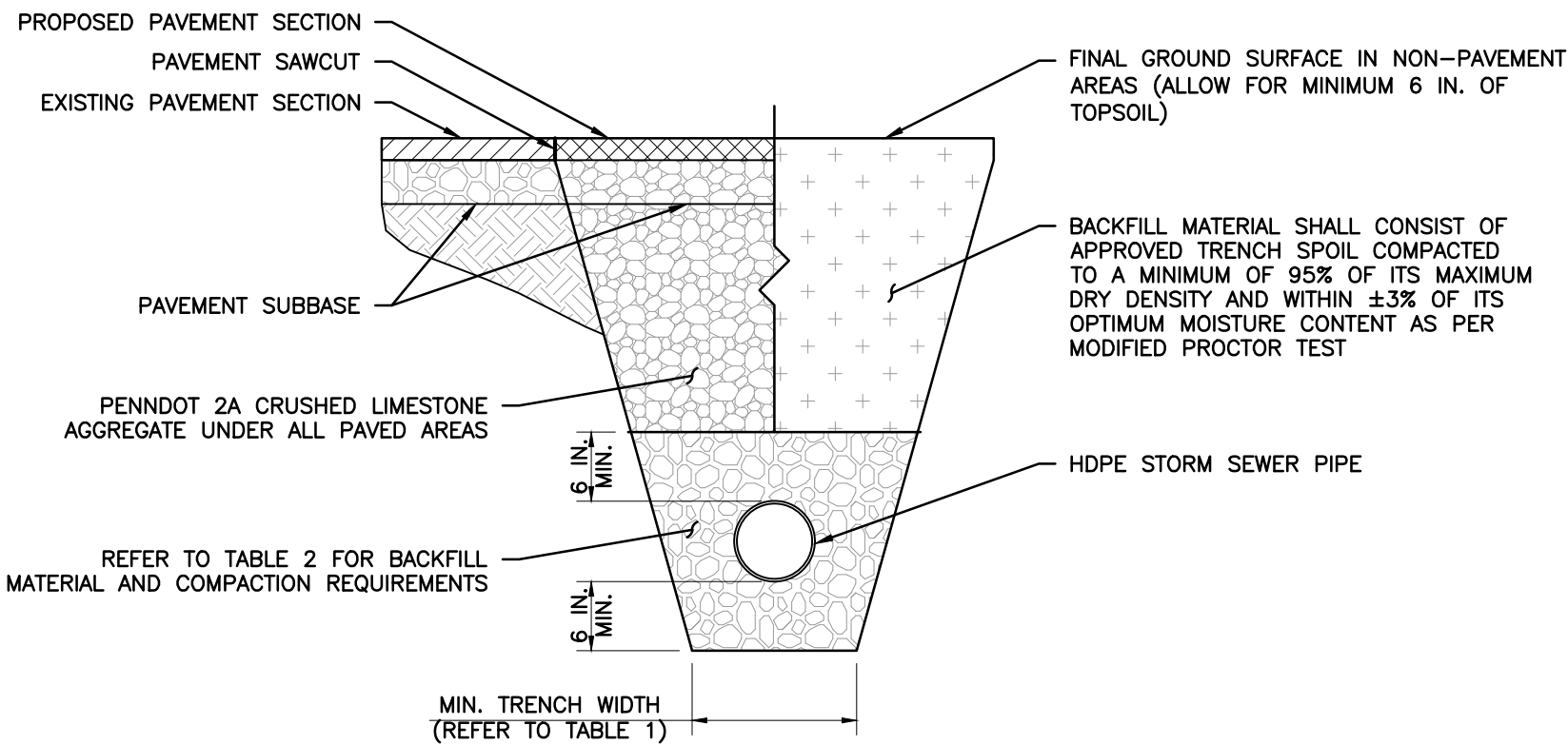
**MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA**

700 Cherrington Parkway
Moon Township, PA 15108
Ph: 412.429.2324 • 800.365.2324
www.cecinc.com

REVISION RECORD

NO	DATE	DESCRIPTION
A	0003/2026	RESPONSE TO INCOME TAXES LETTER DATED 03/04/2026.
A	08/14/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2026.
A	09/10/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 08/10/2026.
		ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEE SURVEYING AND LANDSCAPE ARCHITECTS OF NC, PLLC. SERVICES IN PUERTO RICO WILL BE PROVIDED BY CEE SURVEYING AND LANDSCAPE ARCHITECTS OF P.R., PLLC. ARCHITECTURE SERVICES IN THE STATE OF OHIO WILL BE PROVIDED BY CEE LANDSCAPE ARCHITECTS, LLC.

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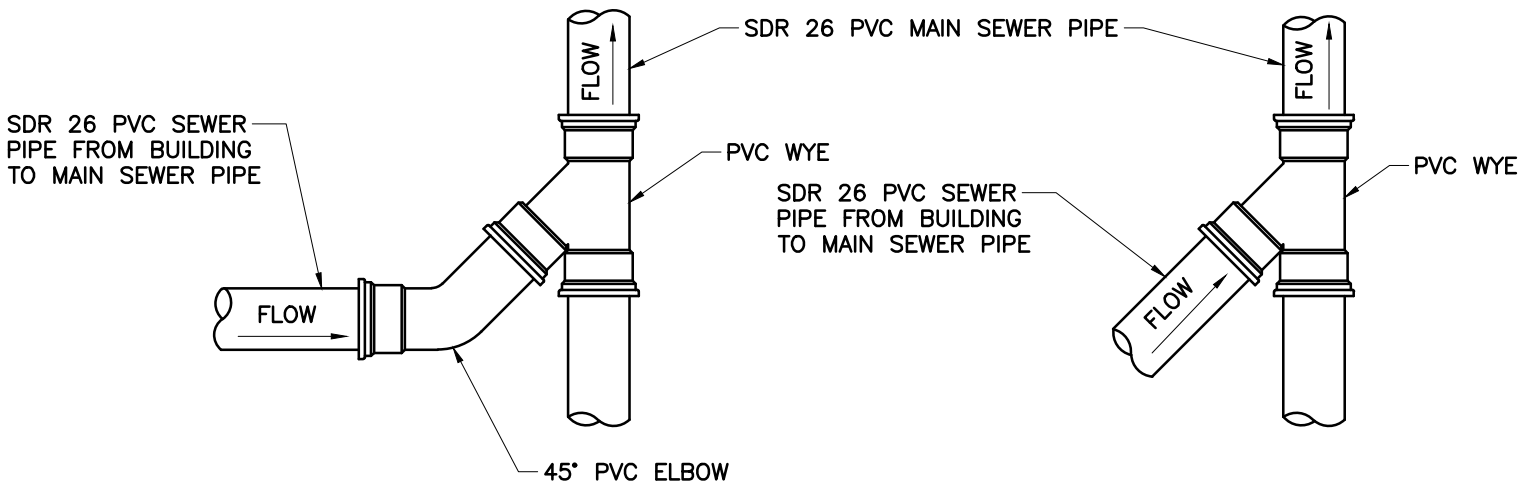
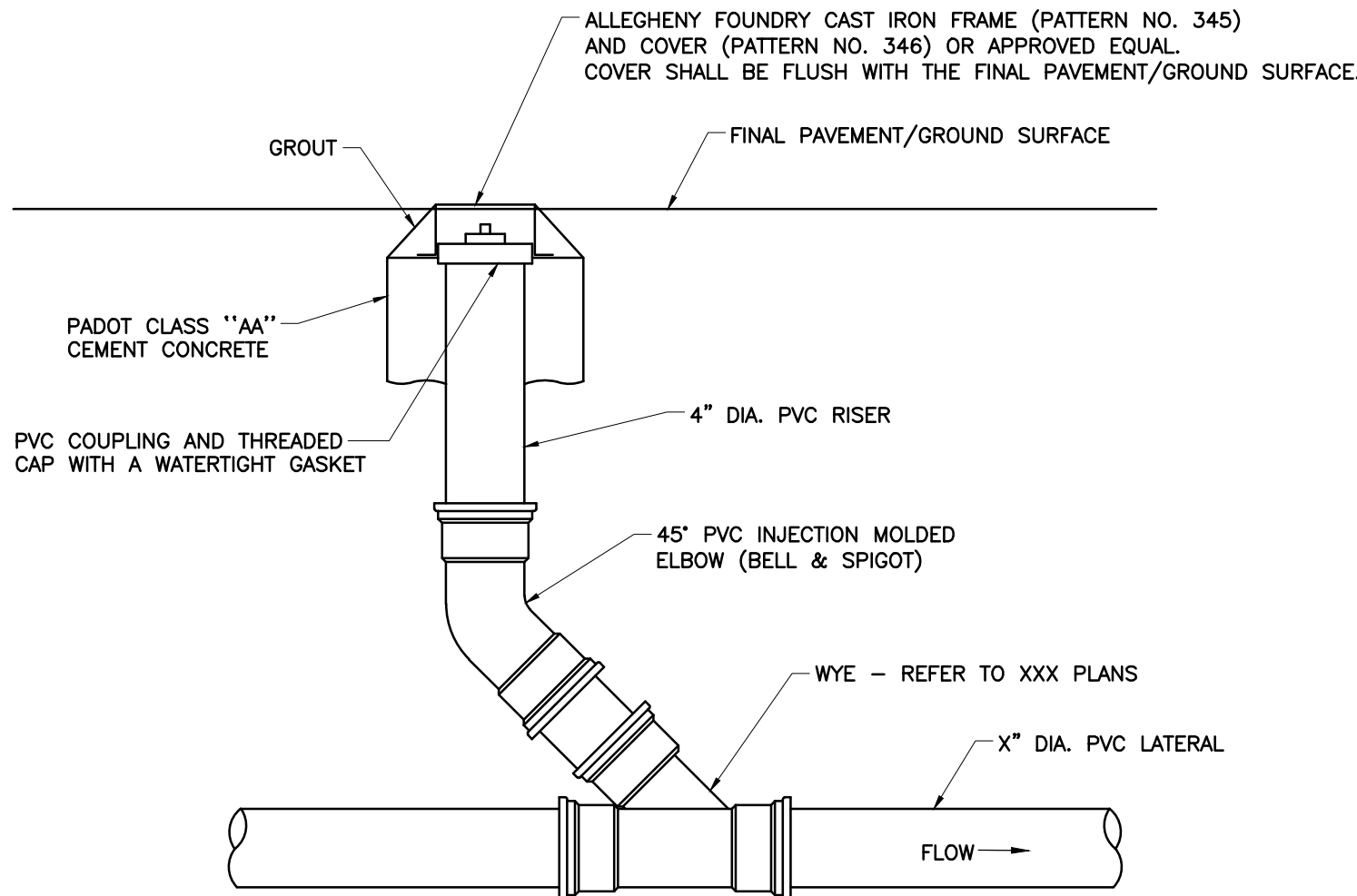
STORM SEWER PIPE

ABBREVIATIONS
D = INSIDE DIAMETER
O.D. = OUTSIDE DIAMETER

- NOTES:
1. THIS DETAIL APPLIES TO STORM AND SANITARY SEWER CLEANOUTS WITH APPROPRIATE CHANGES TO WYE AND PIPE SIZES.
 2. ALL PVC PIPE AND FITTINGS SHALL BE SDR 35 WITH RUBBER GASKETED JOINTS.
 3. THE CLASS "AA" CEMENT CONCRETE SHALL SATISFY THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 704.

STORM SEWER CLEAN OUT

N.T.S.



- NOTES:
1. THESE DETAILS APPLY TO STORM AND SANITARY SEWER CONNECTIONS WITH APPROPRIATE CHANGES TO WYE AND PIPE SIZES, AND PIPE MATERIALS.
 2. ALL PVC PIPE AND FITTINGS SHALL BE MINIMUM SDR 26 WITH RUBBER GASKETED JOINTS.

WYE CONNECTION

N.T.S.

COVER REQUIREMENTS

UTILITY	MINIMUM COVER REQUIRED *
STORM SEWER	2.0 FT.

* AS MEASURED FROM TOP OF PIPE TO FINAL GROUND SURFACE

NOTES:

1. ALL MATERIALS EXCAVATED FROM THE UTILITY TRENCH SHALL BE STOCKPILED A MINIMUM SUFFICIENT DISTANCE FROM ALL TRENCHES TO PREVENT SLIDES OR CAVE-INS.
2. ALL BACKFILL MATERIALS SHALL BE APPROVED BY THE GENERAL CONTRACTOR OR HIS REPRESENTATIVE BEFORE BEING PLACED.
3. THE AASHTO #57 STONE SHALL BE CRUSHED LIMESTONE THAT SATISFIES THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 703.
4. THE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT FOR THE BACKFILL MATERIALS SHALL BE DETERMINED BY ASTM D1557, AND THE RELATIVE DENSITY OF THE AASHTO #57 STONE SHALL BE DETERMINED BY ASTM D4253 AND ASTM D4254.
5. THE CONTRACTOR SHALL CONSTRUCT THE UTILITY TRENCHES AND PROVIDE ADEQUATE SHORING (WHERE NECESSARY) IN CONFORMANCE WITH THE LATEST REQUIREMENTS FOR CONSTRUCTION STANDARD FOR EXCAVATIONS (29 CFR PART 1926.650--.652 SUBPART P) PROMULGATED BY OSHA.
6. THE CONTRACTOR SHALL VERIFY THAT THE MINIMUM SPECIFIED PIPE COVER IS PROVIDED BETWEEN THE FINAL GROUND SURFACE AND TOP OF PIPE BEFORE LAYING PIPE. PROVIDE A MINIMUM OF 3 FT. OF COVER ABOVE ALL PIPES DURING CONSTRUCTION.
7. INCREASE TRENCH WIDTH AS NECESSARY TO ALLOW FOR PROPER COMPACTION OF BEDDING/BACKFILL.
8. HDPE AND HCP STORM SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

TRENCH DETAILS

N.T.S.

TABLE 1: MINIMUM TRENCH WIDTHS

PIPE DIAMETER (in.)	TRENCH WIDTH (in.)
4-10	28
12	30
15	34
24	48
30	56
36	64
42	72
48	80
54	88
60	96

TABLE 2: BACKFILL MATERIAL AND COMPACTION REQUIREMENTS

DESCRIPTION	SOIL CLASSIFICATIONS			MIN. MODIFIED PROCTOR DENSITY %
	ASTM D2321	ASTM D487	AASHTO M43	
GRADED OR CRUSHED STONE, GRAVEL	CLASS I	-	5	N/A SEE NOTES FOR VISUAL CRITERIA
WELL-GRADED SAND, GRAVELS AND GRAVEL/SAND MIXTURES; POORLY GRADED SAND, GRAVELS AND GRAVEL/SAND MIXTURES; LITTLE TO NO FINES	CLASS II	GW GP SW SP	57 6	95%
SILTY OR CLAYEY GRAVELS, GRAVEL/SAND/SILT OR GRAVEL AND CLAY MIXTURES; SILTY OR CLAYEY SANDS, SAND/CLAY OR SAND/SILT MIXTURES	CLASS III	GW GP SW SP	GRAVEL AND SAND (<10% FINES)	95%

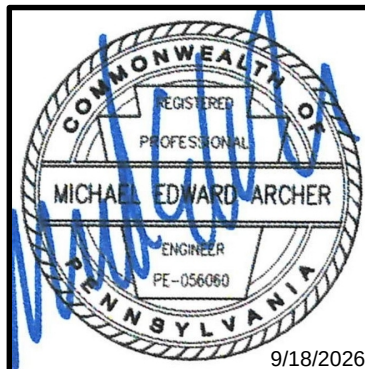
DETAIL 44

STORM PIPE/CULVERT

N.T.S.

PIPE TABLE				
PIPE NAME	SIZE (IN)	LENGTH (FT)	SLOPE	MATERIAL
FS-2A	36	26.8	0.00%	HDPE
FS-2A INLET PIPE	18	8.7	0.95%	HDPE
FS-2B	36	9.5	0.00%	HDPE
FS-2B INLET PIPE	18	8.8	0.94%	HDPE
P-2-200	24	27.7	3.60%	HDPE
P-2-200D	30	38.1	0.47%	HDPE
P-2-201	24	105.7	1.61%	HDPE
P-2-201D	24	11.5	0.26%	HDPE
P-2-201E	24	23.5	0.51%	HDPE
P-2-202	24	24.8	0.50%	HDPE
P-2-202B	36	14.9	0.47%	HDPE
P-2-202D	36	5.0	0.00%	HDPE
P-2-202E	36	5.0	0.00%	HDPE
P-2-203	24	42.2	0.50%	HDPE
P-2-203A	15	65.5	0.50%	HDPE
P-2-204	18	51.3	0.50%	HDPE
P-2-204A	15	50.8	0.50%	HDPE
P-2-205	18	83.1	0.50%	HDPE
P-2-205A	15	45.6	0.50%	RCP
P-2-206	15	100.7	0.50%	HDPE
P-2-207	15	95.5	0.50%	HDPE
P-2-208	15	73.9	0.50%	HDPE
P-3A-300	30	75.7	0.59%	HDPE
P-3A-301	30	29.1	0.00%	HDPE
P-3A-302	30	62.5	5.78%	HDPE
P-3A-302D	24	23.0	15.29%	HDPE
P-3A-302E	24	27.7	9.04%	HDPE
P-3A-303	30	36.1	0.50%	HDPE
P-3A-303D	24	40.5	0.50%	HDPE
P-3A-303E	24	44.8	0.49%	HDPE
P-3A-304	30	49.9	0.50%	HDPE
P-3A-304D	24	82.0	0.50%	HDPE
P-3A-304E	24	97.2	0.50%	HDPE
P-3A-305	30	126.7	0.50%	HDPE
P-3A-305C	15	42.2	11.82%	HDPE
P-3A-305D	18	82.0	0.50%	HDPE
P-3A-305E	24	90.8	0.50%	HDPE
P-3A-306	24	185.6	0.50%	HDPE
P-3A-306B	15	39.8	2.06%	HDPE
P-3A-306D	18	82.0	0.50%	HDPE

PIPE TABLE				
PIPE NAME	SIZE (IN)	LENGTH (FT)	SLOPE	MATERIAL
P-3A-306E	18	147.3	0.50%	HDPE
P-3A-307	24	185.0	0.50%	HDPE
P-3A-307A	15	36.2	2.18%	HDPE
P-3A-307B	15	50.7	0.50%	HDPE
P-3A-307D	18	82.0	0.50%	HDPE
P-3A-307E	18	124.6	0.50%	HDPE
P-3A-308	18	96.1	0.50%	HDPE
P-3A-308B	15	82.0	0.50%	HDPE
P-3A-308D	15	82.0	0.50%	HDPE
P-3A-308E	18	102.4	0.50%	HDPE
P-3A-309	18	59.3	0.50%	HDPE
P-3A-309D	15	82.0	0.50%	HDPE
P-3A-309E	15	94.9	0.50%	HDPE
P-3A-310	15	141.6	1.58%	HDPE
P-3A-310D	15	71.9	0.50%	HDPE
P-3A-311	15	58.9	1.56%	HDPE
P-3A-312	15	63.2	0.66%	HDPE
P-3A-313	15	83.1	0.50%	HDPE
P-3B-300	24	4.0	6.28%	HDPE
P-3B-300G	15	5.9	4.28%	HDPE
P-3B-300H	30	5.0	0.00%	HDPE
P-3B-301	24	71.1	0.60%	HDPE
P-3B-301B	18	30.1	6.49%	HDPE
P-3B-301C	18	108.5	1.65%	HDPE
P-3B-301H	24	23.9	0.63%	HDPE
P-3B-301I	15	68.5	1.01%	HDPE
P-3B-302	24	65.0	0.51%	HDPE
P-3B-302C	18	41.0	2.40%	HDPE
P-3B-303	18	90.4	0.51%	HDPE
P-3B-303C	18	116.4	0.59%	HDPE
P-3B-303D	18	99.8	0.50%	HDPE
P-3B-304	18	97.1	0.50%	HDPE
P-3B-304A	18	51.7	0.54%	HDPE
P-3B-304C	18	127.9	0.51%	HDPE
P-3B-304E	18	84.8	0.52%	HDPE
P-3B-305	18	43.7	0.51%	HDPE
P-3B-305C	15	68.1	1.34%	HDPE
P-3B-305F	18	32.8	0.50%	HDPE
P-3B-306C	15	72.9	0.50%	HDPE
P-3B-306F	18	52.7	0.51%	HDPE



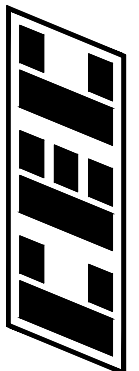
CONSTRUCTION DETAILS

DATE	APRIL 2026	DRAWN BY:	VMF
DWG SCALE	N.A.	CHECKED BY:	BJH
PROJECT NO:	353-024	APPROVED BY:	RIM

DRAWING NO.: **C804**

SHEET 35 OF 41

MERCER NODE PROPERTY, LLC
MERCER NODE DEVELOPMENT
200-201 CLARK STREET
CITY OF SHARON
MERCER COUNTY, PA



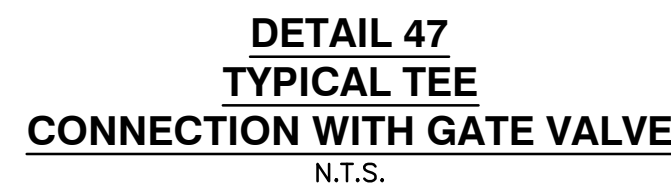
Civil & Environmental
Consultants, Inc.

700 Cherrington Parkway
Moon Township, PA 15108
Ph: 412.429.2324 · 800.365.2324
www.cecinc.com

REVISION RECORD

NO	DATE	DESCRIPTION
1	04/03/2026	RESPONSE TO INCOMPLETENESS LETTER DATED 05/05/2026
2	04/14/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 07/16/2026
3	04/16/2026	RESPONSE TO TECHNICAL DEFICIENCY LETTER DATED 08/10/2026

ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURE IN THE STATE OF NORTH CAROLINA WILL BE PROVIDED BY CEC SURVEYING AND LANDSCAPE ARCHITECTS OF NC, PLLC. SERVICES IN PUERTO RICO WILL BE PROVIDED BY CEC SURVEYING AND LANDSCAPE ARCHITECTS OF PR, PLLC. ARCHITECTURE SERVICES IN THE STATE OF CHD WILL BE PROVIDED BY CEC LANDSCAPE ARCHITECTS, LLC.



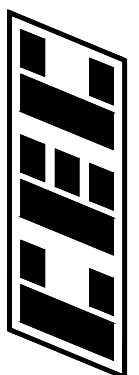
- | UTILITY | MINIMUM COVER REQUIRED * |
|----------------|--------------------------|
| SANITARY SEWER | REFER TO UTILITY PLAN |
| WATERLINE | 4.0 FT. |
| GAS LINE | 2.0 FT. |
| ELECTRIC LINE | 2.0 FT. |
| TELEPHONE LINE | 2.0 FT. |
- * AS MEASURED FROM TOP OF PIPE TO FINAL GROUND SURFACE
VEGETATED AREA

- ELECTRICAL SERVICE LINE**
DETAIL 52
UTILITY TRE
N.T.S.



REVISION RECORD		
NO	DATE	DESCRIPTION
1	06/03/2026	RESPONSE TO INCOMPLETENESS LETTER DATED 05/04/2026.

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**MERCER NODE PROPERTY, LLC
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CONSTRUCTION DETAILS

DATE:	APRIL 2026	DRAWN BY:	VMF
SCALE:	N.A.	CHECKED BY:	BUH
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C805

