



# CVS AT WILDLIGHT

CVS # 168098  
SR 200 & CROSSTOWN AVE S  
NASSAU COUNTY, FLORIDA 32097

## YULEE, FLORIDA

### PREPARED FOR

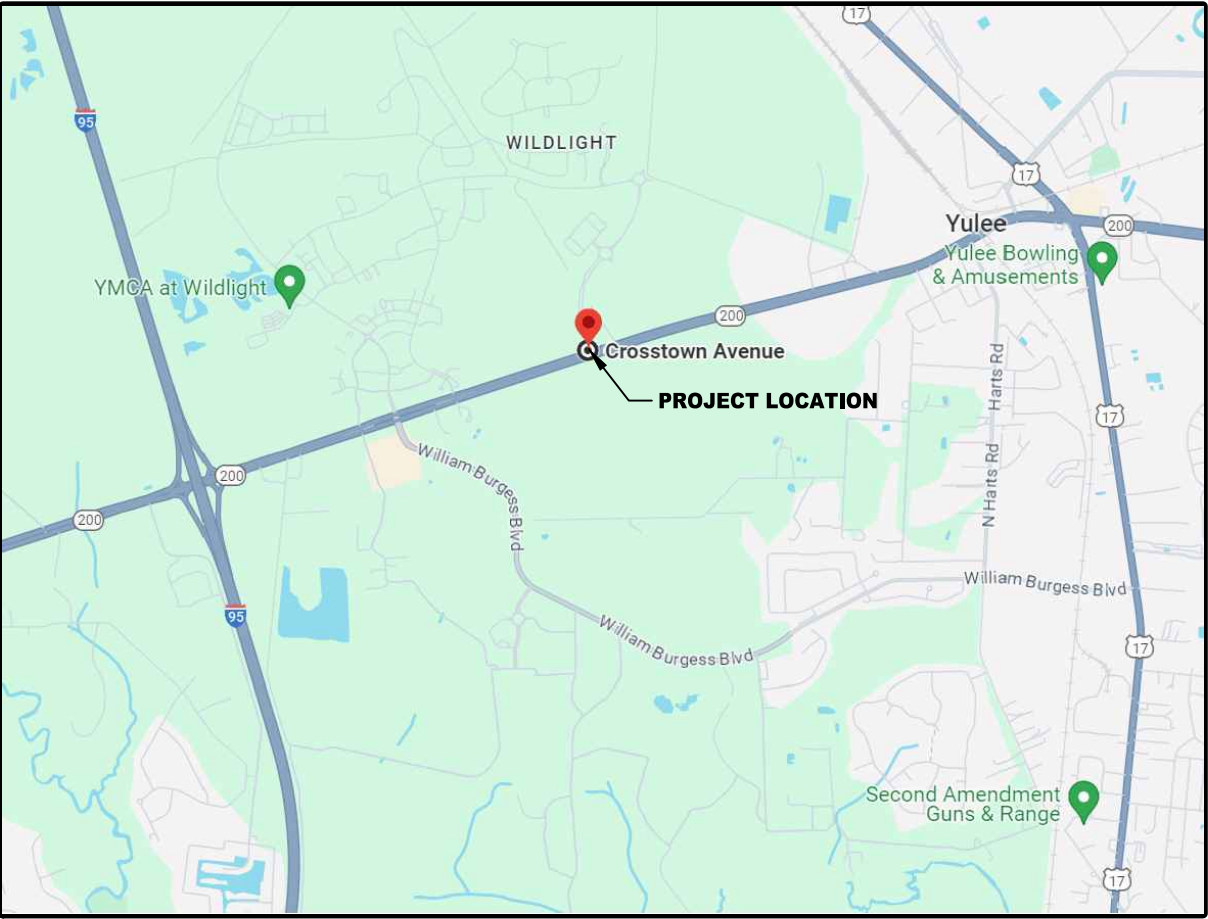
# BOOS DEVELOPMENT GROUP, INC

410 PARK PLACE BLVD., SUITE 100  
CLEARWATER, FL  
727-669-2900



14775 Old St. Augustine Road  
Jacksonville, FL 32258  
(904) 642-8990  
CA - 00002584 LC - 0000316

# MARCH 2025



LOCATION MAP  
N.T.S.

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NOTE:  
IF YOU DIG IN FLORIDA, YOU ARE REQUIRED TO  
CALL SUNSHINE STATE ONE-CALL OF FLORIDA,  
INC. 1-800-432-4770 FOR LOCATES. IT'S THE  
LAW.

JEA FLOW TEST
FLOW TEST DATE: 2/25/2025 @ 10:14 AM.
FLOW HYDRANT LOCATION CROSSTOWN AVE S 275' S OF SR 200/A1A (786934)
STATIC RESIDUAL HYDRANT LOCATION CROSSTOWN AVE 230' N OF SR 200/A1A (697320)
NUMBER OF PORTS: 3
DIAMETER OF PORTS (IN): 2.5
PITOT PRESSURE (PSI): 14
STATIC PRESSURE (PSI): 63
RESIDUAL PRESSURE (PSI): 45
FLOW AT TEST (GPM): 1894
FLOW AT 20 PSI (GPM): 3031

JEA DESIGN STANDARDS: 2024

JEA AVAILABILITY #: 2023-2426

VERTICAL DATUM USED FOR  
THIS PROJECT: NAVD88

COVER

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
1

Trusted  
Advisors,  
Creating  
Community

ETM  
ENGLAND-THIMS & MILLER

14775 Old St. Augustine Rd.  
Jacksonville, Florida 32258  
(904) 642-8990  
www.etmnc.com  
REG-00002584 LC-0000316

REVISIONS:  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

PLANS PREPARED UNDER  
THE DIRECTION OF:

DALLAS SCHRIER  
P.E. NUMBER: 94608

PLOTTED: March 27, 2025 - 4:36 PM. BY: Kevin Ferguson

THE FLORIDA PROFESSIONAL ENGINEER NAMED HEREIN SHALL BE RESPONSIBLE FOR THE DRAWINGS LISTED IN THIS BOX IN ACCORDANCE WITH RULE 61G15-23-003, F.A.C. THESE SHEETS HAVE BEEN SIGNED AND SEALED USING A DIGITAL SIGNATURE BY: DALLAS SCHRIER P.E. NUMBER: 94608

ENGLAND-THIMS & MILLER, INC.  
14775 OLD ST. AUGUSTINE ROAD  
JACKSONVILLE, FLORIDA 32258  
PHONE (904) 642-8990  
CERTIFICATE OF AUTHORIZATION NUMBER: 00002584

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

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31	18	MAINTENANCE OF TRAFFIC	

THE FLORIDA REGISTERED LANDSCAPE ARCHITECT NAMED HEREIN SHALL BE RESPONSIBLE FOR THE DRAWINGS LISTED IN THIS BOX. THESE SHEETS HAVE BEEN SIGNED AND SEALED USING A DIGITAL SIGNATURE BY: JONATHAN F. KORMAN, PLA L.A. NUMBER: 6667357

ENGLAND-THIMS & MILLER, INC.  
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SIGNATURE SHEET

CVS AT WILDLIGHT FOR BOOS DEVELOPMENT GROUP, INC

2

DRAWING NUMBER

ENGLAND-THIMS & MILLER

Trusted Advisors, Creating Community

1411 Edgewater Drive, Ste. 200  
Orlando, Florida 32804  
(407) 536-5379  
www.etm-inc.com

REG-00002584

LC-0000316

ETM NO. 23-128-01

DRAWN BY: KMF

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PLOTTED: March 27, 2025

4:36 PM, BY: Kevin Ferguson

c:\2025\23-128\23-128-01\LandDev\Design\Plots\23-128.dwg



GENERAL SITE NOTES:

1. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND FOR ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONSTRUCTION CONTRACT. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA (811) FOR UTILITY LOCATES IN ACCORDANCE WITH STATE LAW PRIOR TO EXCAVATING. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF OR WITHIN THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE ISSUES THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.
3. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING STRUCTURES, IMPROVEMENTS, UTILITIES, PROPERTY LINES, AND CONFIRM ALL PROPOSED DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION OR ORDERING ANY MATERIALS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER NASSAU COUNTY STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS. (SEE NASSAU COUNTY DEVELOPMENT REVIEW GENERAL NOTES #7 & #8.)
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED. FAILURE OF THE CONTRACTOR TO IDENTIFY/QUANTIFY THE AMOUNT OF UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED DURING THE BID PROCESS WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONSTRUCTION CONTRACT.
6. ALL MATERIALS AND WORKMANSHIP ARE TO BE WARRANTED BY THE CONTRACTOR TO THE OWNER AND THE NASSAU COUNTY FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND NASSAU COUNTY.
7. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE A RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT, AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.
8. UNLESS DIRECTED OTHERWISE BY THE OWNER OR THE ENGINEER, THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH COUNTY REQUIREMENTS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING NASSAU COUNTY RIGHT-OF-WAY PERMITS FOR WORK IN THE COUNTY RIGHT-OF-WAY OR EASEMENT. CONTRACTOR IS RESPONSIBLE FOR CONTROL OF SEDIMENTATION AND RUNOFF RESULTING FROM RAINFALL EVENTS DURING THE CONSTRUCTION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REGULATORY PERMITS ISSUED FOR THE PROJECT.
10. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE APPROPRIATE AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR.
11. IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE ENGINEER FOR APPROVAL OF ALL DEWATERING OPERATIONS PRIOR TO COMMENCEMENT.
12. PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

GENERAL SITE NOTES:

12. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH NASSAU COUNTY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
13. CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, BERMS, RIGHTS-OF-WAYS AND EASEMENTS (INCLUDING ELECTRIC EASEMENTS) ARE INCLUDED IN THIS PROJECT.
15. ALL ACCESS EASEMENTS ARE TO BE STABILIZED AND DRIVABLE.
16. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
17. BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH NASSAU COUNTY FIRE MARSHAL AND ALL OTHER PERMITTING AUTHORITIES BY THE CONTRACTOR.
18. UNSUITABLE MATERIALS UNDER UTILITY OR STORM PIPE, STRUCTURES, PAVEMENT, BUILDING PADS, OR HARDCAPE ELEMENTS SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
19. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
20. ALL UNDERGROUND UTILITIES TO BE INSTALLED UNDER PAVEMENT MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
21. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
22. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STORM PIPE OR STRUCTURE.
23. AUGER BORINGS PROVIDED BY ENGINEERING CONSULTING SERVICES, DATED: 7/5/2024,
24. FLOOD ZONE BASED UPON FEMA INSURANCE RATE MAPS PANEL NOS. 12089C0195F AND 12089C0335F, DATED: 12/17/2010,
25. FOR SEDIMENT AND EROSION CONTROL PLANS, DETAILS AND NOTES REFER TO DRAWINGS 12 AND 13. CONTRACTOR TO COORDINATE WITH AUTHORITY FOR INSPECTIONS PRIOR TO CLEARING OPERATIONS.
26. ELEVATIONS ARE BASED ON NAVD88.
27. TOPOGRAPHIC INFORMATION BASED ON SURVEY PROVIDED BY ETM MAPPING & SURVEYING, DATED: 8/15/2024,
28. BOUNDARY INFORMATION BASED ON SURVEY PROVIDED BY ETM MAPPING & SURVEYING, DATED: 8/15/2024,
29. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF "NASSAU COUNTY LAND DEVELOPMENT CODE", (LATEST REVISION) AND ALL CURRENT COUNTY STANDARD DETAILS. THE WORK SHALL ALSO BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY ENGINEERING CONSULTING SERVICES, DATED: 7/5/2024, IF MORE STRINGENT THAN CITY REQUIREMENTS.
30. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CIVIL ENGINEER TO DETERMINE IF THIS PROJECT IS WITHIN THE COUNTY'S JURISDICTION FOR INSPECTION. IF SO THEN, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE COUNTY FOR PRE-CONSTRUCTION MEETING AND INSPECTIONS.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE EXISTING SOIL IN ALL LANDSCAPE AREAS FROM CONTAMINATION, INCLUDING BUT NOT LIMITED TO BASE MATERIALS SUCH AS LIMEROCK, CRUSHED CORTEX AND SHALL NOT BURY OR MIX BASE MATERIAL INTO SOILS USED FOR LANDSCAPE AREAS. LANDSCAPE AREAS INCLUDE ALL AREAS WITHIN THE LIMITS OF WORK THAT ARE SHOWN ON THE APPROVED LANDSCAPE PLANS TO BE COVERED BY PRESERVED VEGETATION, TURF, PLANT BEDS, MULCHED AREAS, AND TREES. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO CLEAN-UP OF THE LANDSCAPED AREAS OF THE SITE THAT ARE ADJACENT TO ASPHALT PAVEMENT AND WHERE THE BASE MATERIAL IS STORED.
32. CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIAL WITHIN 24' OF THE FINAL SURFACE FROM THE LANDSCAPE AREAS, IMMEDIATELY AFTER THE PLACEMENT OF THE BASE MATERIALS (LIMEROCK / CRUSHED CORTEX, ETC.). CONTRACTOR SHALL ALSO ENSURE THAT ALL SOIL THAT IS CONTAMINATED WITH BASE MATERIALS, WASTE, CONSTRUCTION DEBRIS, FUEL OR OTHER HAZARDOUS MATERIALS IS REMOVED FROM THE SITE AND PROPERLY DISPOSED OF PROPERLY IN ACCORDANCE WITH STATE, LOCAL AND FEDERAL LAWS. CONTRACTOR SHALL REMOVE ALL CONTAMINATED SOIL AND REPLACE WITH TOP SOIL.
33. CONTRACTOR SHALL NOT INSTALL THE TOP LAYER OF SOIL OR FINISH GRADING LANDSCAPE AREAS UNTIL THESE AREAS HAVE BEEN REVIEWED BY THE PROJECT ENGINEER.
34. PROJECT LOCATION: YULEE, FLORIDA.
35. THESE PLANS WERE GENERATED UTILIZING AUTOCAD CIVIL 3D 2025.

PAVING AND DRAINAGE NOTES:

1. ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES.
2. ALL DRAINAGE PIPE JOINTS ARE TO BE FILTER FABRIC WRAPPED.
3. ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRECAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK, OR REDDI-MIX CONCRETE WITH #57 STONE.
4. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH COUNTY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
5. CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.
6. THE CONTRACTOR SHALL PROVIDE ACCESSIBLE CURB RAMP AT ALL SIDEWALK AND CURB CONNECTIONS. RAMPS SHALL MEET ALL APPLICABLE ADA REQUIREMENTS.

NASSAU COUNTY  
DEVELOPMENT REVIEW GENERAL NOTES

1. ENGINEERING PLANS APPROVAL DOES NOT CONSTITUTE PERMISSION TO VIOLATE ANY ADOPTED FEDERAL, STATE, OR LOCAL LAW, CODE, OR ORDINANCE.
2. ALL WORK WITHIN THE PUBLIC STREETS AND RIGHT-OF-WAYS SHALL CONFORM TO NASSAU COUNTY LAND DEVELOPMENT CODES (LDC), FDOT STANDARD INDICES, FLORIDA GREENBOOK, NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS, AND NASSAU COUNTY STANDARD DETAILS AS NECESSARY. FOR ANY DISCREPANCY BETWEEN STANDARDS, THE MOST STRINGENT SHALL PREVAIL.
3. PER NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS, ORDINANCE 99-17 SECTION 6.2.4, SITE SHALL BE CONSTRUCTED PER APPROVED CONSTRUCTION DRAWINGS. ANY SUBSTANTIAL DEVIATION SHALL BE CONCURRENTLY REVIEWED BY ENGINEER OF RECORD AND NASSAU COUNTY DEVELOPMENT REVIEW COMMITTEE PRIOR TO FIELD CHANGES.
4. A PRE-CONSTRUCTION MEETING WITH NASSAU COUNTY ENGINEERING SERVICES CONSTRUCTION INSPECTOR IS REQUIRED. ATTENDEES SHALL BE NASSAU COUNTY, ENGINEER OF RECORD, CONTRACTOR, TESTING FIRM, PAVING FIRM, AND UTILITY COMPANIES PER NASSAU COUNTY ORDINANCE 99-17 SECTION 7.2.3. NASSAU COUNTY MAY REQUIRE PRE-CONSTRUCTION MEETING IF ATTENDEE LIST IS INADEQUATE. NASSAU COUNTY ENGINEERING SERVICES CAN BE REACHED AT 904-530-6225.
5. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL WORK WITH THE APPROPRIATE NASSAU COUNTY CONSTRUCTION INSPECTOR ASSIGNED TO THE PROJECT PER NASSAU COUNTY ORDINANCE 99-17 SECTION 7.2.
6. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT.
7. PER NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS, ORDINANCE 99-17 SECTION 11.8.1, ANY DISTURBED AREAS WITHIN NASSAU COUNTY RIGHT-OF-WAY SHALL BE SOODED.
8. PER NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS, ORDINANCE 99-17 SECTION 7.4.1, AT THE TIME OF FINAL INSPECTION, GRASSING SHALL BE A MINIMUM OF SEVENTY PERCENT COVERAGE AND FULLY ESTABLISHED AND/OR SOODING TO BE ONE HUNDRED PERCENT COVERAGE AND STABILIZED.
9. ENGINEER OF RECORD APPROVED SHOP DRAWINGS SHALL BE PROVIDED TO NASSAU COUNTY CONSTRUCTION INSPECTOR A MINIMUM OF ONE WEEK BEFORE BEGINNING STRUCTURE INSTALLATION.
10. PARKING AT MAIL KIOSKS IS REQUIRED PER NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS, ORDINANCE 99-17 SECTION 8.4. MAIL KIOSK LOCATIONS ARE SUBJECT TO USPS POSTMASTER APPROVAL.
11. THE DEVELOPER'S CONTRACTOR IS THE SINGLE RESPONSIBLE PARTY FOR THE PROPER IMPLEMENTATION OF AN EROSION PROTECTION SEDIMENT CONTROL (EPCS) WITHIN EACH LOT OR CONSTRUCTION SITE. THIS INCLUDES THE RESPONSIBILITY FOR THE ACTIONS/IN ACTIONS OF EMPLOYEES, SUBCONTRACTORS, AND/OR SUPPLIERS.
12. SIDEWALKS TO BE PROVIDED AND BUILT IN ACCORDANCE FLORIDA BUILDING CODE. ALL PROPOSED SIDEWALKS SHALL MEET ADA REQUIREMENTS.
13. THE CONTRACTOR SHALL COMPLY WITH CURRENT FLORIDA ACCESSIBILITY STANDARDS FOR ALL WORK ON THIS PROJECT.
14. PER ORDINANCE 99-17 SECTION 8.5.1, MINIMUM COVER FOR WATER LINES AND FORCE MAINS UNDER PAVEMENT SHALL BE 42" AND 36" IN GREEN AREAS.
15. ALL WATER, SEWER, AND STORM WATER CONSTRUCTION WITHIN NASSAU COUNTY ROW SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 409 OF THE FLORIDA STATUTES.
16. NO WORK SHALL BE PERMITTED BETWEEN THE HOURS OF 7:00 PM - 7:00AM WITHOUT PRIOR APPROVAL FROM NASSAU COUNTY ENGINEERING SERVICES.
17. ALL TREES REQUIRED TO BE PROTECTED SHALL BE FLAGGED FOR PROTECTION PRIOR TO CLEARING.
18. ALL GRADING AND PLACEMENT OF COMPACTED FILL SHALL BE IN ACCORDANCE WITH THE LATEST NASSAU COUNTY SPECIFICATIONS.
19. ANY DAMAGES (SIDEWALK, CURB, ASPHALT, DITCH GRADING, ET CETERA) WITHIN PUBLIC RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH NASSAU COUNTY SPECIFICATIONS. PROPOSED REPAIR METHOD SHALL BE APPROVED BY NASSAU COUNTY ENGINEERING SERVICES.
20. ANY ASPHALT MILLINGS FROM NASSAU COUNTY ROW SHALL BE DELIVERED TO THE ROAD DEPARTMENT LAYDOWN YARD LOCATED ON GENE LASSEUR BOULEVARD OR PEA FARM ROAD. PLEASE CONTACT THE ROAD DEPARTMENT AT (904) 530-6175.
21. PER NASSAU COUNTY ORDINANCE 99-17 SECTION 7.4.2 AND 7.4.4, AS-BUILT DRAWINGS SHALL BE SUBMITTED TO NASSAU COUNTY BEFORE A FINAL INSPECTION CAN BE SCHEDULED. AS-BUILTS SUBMITTALS WILL BE IN ACCORDANCE WITH NASSAU COUNTY AS-BUILT REQUIREMENT CHECKLIST. AS-BUILT DRAWINGS SHALL BE CERTIFIED BY REQUIRED LICENSED SURVEYOR AND APPROVED BY ENGINEER OF RECORD.

NASSAU COUNTY  
STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER DRAINAGE FACILITIES WITHIN PUBLIC RIGHT-OF-WAY AND PAVED AREAS, INCLUDING NASSAU COUNTY RIGHT-OF-WAY, TURN LANES, RESIDENTIAL ROADWAYS, DRIVE AISLES FOR MULTI-FAMILY DEVELOPMENTS, AND MAJOR DRIVE AISLES FOR COMMERCIAL DEVELOPMENTS SHALL BE LASER PROFILED PER FDOT SECTION 430.
2. A BUILDER CANNOT MODIFY THE COUNTY'S STORM WATER MANAGEMENT SYSTEM INCLUDING THE PIPES, INLETS, AREA DRAINS, DITCHES AND RELATED ELEMENTS TYPICALLY WITHIN THE STREET OR WITHIN A DRAINAGE EASEMENT WITHOUT THE PRIOR WRITTEN APPROVAL OF THE COUNTY ENGINEER OR DESIGNER.
3. DRAINAGE EASEMENTS AND DITCHES SHOULD REMAIN FREE OF STOCKPILED SOIL, SEDIMENT, MUD, CONSTRUCTION MATERIALS/WASTE, ET CETERA AT ALL TIMES. POSITIVE STORMWATER FLOW MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL TEMPORARILY OR PERMANENTLY STABILIZE BARE SOIL AREAS AND SOIL STOCKPILES WHEN THE AREA IS INACTIVE FOR FOURTEEN DAYS OR MORE OR HAS REACHED FINISHED GRADE.
5. PER ORDINANCE 99-17 SECTION 11.11.5.4, ALL GRAVITY FLOW PIPE INSTALLATIONS SHALL HAVE A SOIL TIGHT JOINT PERFORMANCE UNLESS SPECIFIC SITE FACTORS WARRANT WATER TIGHT JOINT PERFORMANCE.
6. PER ORDINANCE 99-17 SECTION 10.6.5.1, IMMEDIATELY INSTALL ADDITIONAL EROSION PROTECTION SEDIMENT CONTROL MEASURES IF SEDIMENT IS LEAVING YOUR SITE. FAILURE TO CONTAIN SEDIMENT TO YOUR SITE MAY RESULT IN DELAYED INSPECTIONS, NOTICES OF VIOLATION, CITATIONS, FINES, PENALTIES, AND/OR STOP WORK ORDERS.
7. PER 99-17 SECTION 10.1.2A-E, STORMWATER MANAGEMENT FOR A PROJECT SHALL NOT HAVE ADVERSE EFFECTS ON ADJACENT PROPERTIES, DOWNSTREAM STRUCTURES, OR RIGHTS OF OTHER LANDOWNERS.

NASSAU COUNTY PAVING NOTES:

1. PER NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS, ORDINANCE 99-17 SECTION 12.2 AND 12.4, A CONSTRUCTION BOND AND 26-MONTH CONSTRUCTION BOND MUST BE REQUIRED FOR ALL WORK WITHIN NASSAU COUNTY RIGHT-OF-WAY.
2. A PRE-PAY MEETING IS REQUIRED PRIOR TO ANY PAVING OPERATIONS WITHIN NASSAU COUNTY ROW, RESIDENTIAL SUBDIVISIONS, OR MULTI-FAMILY DEVELOPMENTS.
3. APPROVED MIX DESIGNS SHALL BE PROVIDED TO NASSAU COUNTY CONSTRUCTION INSPECTOR 48 HOURS PRIOR TO PRE-PAYE MEETING OR PLACEMENT OF CONCRETE.
4. CONTRACTOR IS REQUIRED TO HAVE A CERTIFIED QC ASPHALT LEVEL II TECHNICIAN DURING ANY ASPHALT OPERATIONS WITHIN NASSAU COUNTY ROW, RESIDENTIAL SUBDIVISION, OR MULTI-FAMILY DEVELOPMENTS.
5. ALL BASES SHALL BE PRIMED IN ACCORDANCE WITH ORDINANCE 99-17 SECTION 11.5.2.3, NASSAU COUNTY STANDARD DETAILS, AND FDOT STANDARD SPECIFICATIONS.
6. SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH NASSAU COUNTY STANDARDS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND FDOT STANDARD PLANS.
7. MAINTENANCE OF TRAFFIC (MOT) SHALL BE IN COMPLIANCE WITH FDOT STANDARD INDEX 600 SERIES.
8. ALL WORK, MATERIALS, AND TESTING PERFORMED WITHIN NASSAU COUNTY RIGHT-OF-WAY AND SINGLE-FAMILY/MULTI-FAMILY DEVELOPMENTS SHALL BE IN ACCORDANCE WITH THE CURRENT REVISION OF NASSAU COUNTY'S ORDINANCE 99-17 AND ALL CURRENT NASSAU COUNTY STANDARD DETAILS.
9. PER ORDINANCE 99-17 SECTION 11.9.2, ALL PAVEMENT MARKINGS WITHIN NASSAU COUNTY ROW SHALL BE LEAD FREE THERMOPLASTIC MEETING NASSAU COUNTY AND FDOT STANDARD SPECIFICATION LATEST EDITION.
10. REMOVING PAVEMENT MARKINGS WITHIN NASSAU COUNTY ROW SHALL BE:  
a. GRINDING OR HYDRO-BLASTING ON WEATHERED ASPHALT SURFACES.  
b. HYDRO-BLASTING ONLY ON NEW ASPHALT SURFACES.  
c. PAINT BLACKOUT IS PROHIBITED.
11. PER ORDINANCE 99-17 SECTION 8.5.5, ANY DAMAGE TO PAVEMENT RESULTING FROM CONSTRUCTION OR PAVEMENT MARKING REMOVAL WITHIN PUBLIC ROW NOT PLANNED AS PART OF THE PROJECT SHALL BE MILLED AND OVERLAD FOR ENTIRE WIDTH OF ROADWAY AND LENGTH OF DAMAGE PLUS 50' IN EACH DIRECTION.
12. ALL UNDERGROUND UTILITIES, OR APPROPRIATE CONDUIT SLEEVES, THAT ARE TO BE INSTALLED UNDER PAVEMENT MUST BE INSTALLED PRIOR TO PREPARATION OF THE SUBGRADE FOR PAVEMENT.
13. SINGLE VERTICAL JOINTS IN ROADWAY CONSTRUCTION SHALL BE AVOIDED IN NASSAU COUNTY RIGHT-OF-WAY USING NASSAU COUNTY STANDARD DETAIL #26.
14. ALL DRAINAGE STRUCTURES SHALL HAVE TRAFFIC BEARING GRATES THAT MEET OR EXCEED THE RATING FOR THE FACILITIES EXPECTED TRAFFIC.
15. ALL CONCRETE SHALL BE A MINIMUM OF 3000 PSI WITHIN PUBLIC RIGHT-OF-WAY.

WATER, REUSE, & SEWER REQUIREMENTS

1. ALL WATER, REUSE WATER, SANITARY SEWER AND STORM SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR, LICENSED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES. THE CONTRACTOR SHALL FURNISH A COPY OF THE CURRENT LICENSE AND QUALIFIERS TO THE DESIGN ENGINEER PRIOR TO START OF CONSTRUCTION. ALL WATER, REUSE WATER AND SEWER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH JEA STANDARDS, DETAILS AND MATERIALS MANUAL (LATEST REVISIONS) UNLESS MORE STRINGENT STANDARDS ARE SPECIFIED.
2. FIRE PROTECTION MAINS (NON-JEA OWNED WATER SYSTEMS) SHALL BE C-900 PVC DR18 PIPE AND SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA REQUIREMENTS BY A FLORIDA LICENSED CONTRACTOR QUALIFIED TO INSTALL FIRE PROTECTION MAINS. LOCAL PERMITTING AND INSPECTION OF FIRE PROTECTION SYSTEM INSTALLATION, FLUSHING AND TESTING IS REQUIRED. CONTRACTOR RESPONSIBLE FOR LOCAL PERMIT, NOTICE, AND COMPLIANCE WITH PERMIT.
3. FINAL CONNECTION TO THE JEA SYSTEM MAY BE CONTINGENT UPON THE CONSTRUCTION, DEDICATION, AND FINAL ACCEPTANCE OF OFF-SITE SYSTEMS.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER (AND THE JEA IF REQUIRED) ON ALL STRUCTURES AND MATERIALS, FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR FABRICATION OF ANY UTILITY PIPE OR STRUCTURE.
5. UNSUITABLE MATERIALS UNDER UTILITY PIPES AND STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
6. MECHANICALLY RESTRAINED JOINTS ARE REQUIRED ON PRESSURE MAINS AT V-LOOPS, FITTINGS AND DEAD ENDS IN ACCORDANCE WITH JEA STANDARDS.
7. CONTRACTOR SHALL FURNISH AND INSTALL LOCATE WRING ON ALL PVC WATER MAINS, REUSE MAINS, FORCE MAINS, POLYETHYLENE AND PVC WATER SERVICES. INSTALLATION SHALL BE IN ACCORDANCE WITH JEA STANDARDS, DETAILS AND MATERIAL MANUAL, LATEST EDITION.
8. ALL POINTS OF CONNECTION FOR WATER, REUSE WATER AND SEWER MUST BE IN ACCORDANCE WITH THE AVAILABILITY RESPONSE FROM JEA.
9. F.D.E.P. PERMITS SUBMITTED THROUGH THE DEPARTMENT FOR PROCESSING SHALL BE IN CONFORMANCE WITH BOTH THE DESIGN PLANS AND THE WATER AND SEWER AVAILABILITY RESPONSE. ANY MINOR OR MAJOR VARIATIONS BETWEEN THE PRELIMINARY DESIGN AND FINAL DESIGN SUBMITTAL SHALL REQUIRE REVISED F.D.E.P. PERMITS REFLECTING THESE CHANGES.
10. A JEA PRE-CONSTRUCTION CONFERENCE MUST BE HELD PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CONTACT THE JEA NEW DEVELOPMENT PROJECT COORDINATOR: CHRIS BARRINGTON OR JEA DESIGNEE AT (904) 685-4081 TO SCHEDULE THIS CONFERENCE.
11. A TAP APPLICATION FEE IS REQUIRED AND SHALL BE PAID @ 515 N. LAURA ST., 1ST FLOOR. THIS MUST BE ACCOMPLISHED PRIOR TO CONNECTION TO THE JEA'S SYSTEM (WATER, SEWER, REUSE). IN ADDITION, TAP CAPACITY FEES MUST BE PAID AT TIME OF TAP TO THE TAP FEE AND WILL BE BASED ON THE TOTAL NUMBER OF FIXTURE UNITS AND OR AVERAGE DAILY FLOWS.
12. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS AND UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
13. CONTRACTOR SHALL OBTAIN A COPY OF THE F.D.E.P. OR JEA WATER AND SEWER PERMITS FROM THE ENGINEER PRIOR TO START OF CONSTRUCTION AND MUST COMPLY WITH ALL CONDITIONS OF PERMIT(S).
14. ALL JEA ELECTRICAL CONDUIT WORK SHALL BE COMPLETED PRIOR TO THE PRESSURE TESTING OF WATER MAINS, REUSE MAINS AND SEWAGE FORCE MAINS. PRESSURE TESTING AND PUMP TESTING SHALL BE WITNESSED BY JEA AND THE ENGINEER.

WATER AND REUSE MAINS

15. UNLESS OTHERWISE INDICATED, ALL WATER MAINS AND REUSE MAINS WILL BE PVC DR18, C-900/C-905 (AS APPROPRIATE) PIPE. ALL 2" MAINS SHALL BE HOPE CTS SDR 9.
16. WATER MAINS AND REUSE MAINS SHALL HAVE A MINIMUM OF 30" COVER UNDER UNPAVED AREAS AND 36" MINIMUM COVER FROM FINISHED GRADE UNDER PAVED AREAS UNLESS OTHERWISE SHOWN. ADDITIONAL COVER IS REQUIRED FOR VALVE INSTALLATION CLEARANCE FOR PIPE GREATER THAN 8 INCHES IN DIAMETER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT INSTALLED PIPING UNTIL FINAL ACCEPTANCE BY F.D.E.P AND JEA.
17. ALL WATER MAINS AND REUSE MAINS SHALL BE FLUSHED IN ACCORDANCE WITH, AND UNDER THE DIRECTION OF THE JEA.
18. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND REUSE MAINS AND HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND REUSE MAINS TO OTHER UTILITIES SHALL BE IN ACCORDANCE WITH JEA AND F.D.E.P. REQUIREMENTS.
19. ALL GATE VALVES SHALL BE JEA STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 250 PSI WORKING PRESSURE AND 500 PSI TEST PRESSURE.
20. ALL NEW AND / OR RELOCATED WATER MAIN AND REUSE MAIN PIPE AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD, AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND / OR RELOCATED SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDERS AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.

WATER, REUSE, & SEWER REQUIREMENTS

21. ALL FIRE HYDRANTS SHALL BE JEA STANDARD. FIRE HYDRANTS LOCATED WITHIN JEA RIGHT OF WAYS OR EASEMENTS SHALL BE PAINTED YELLOW. ALL PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED, OR IN ACCORDANCE WITH LOCAL REQUIREMENTS.
22. ALL FIRE HYDRANTS THAT ARE SUPPLIED BY A FIRE PUMP AND SUBJECT TO HIGH PRESSURE (IN EXCESS OF 60 P.S.I.) SHALL BE PAINTED GREEN WITH RED LETTERS "H.P." APPROXIMATELY 2' HIGH. THESE LETTERS SHALL BE STENCILED ON THE HYDRANT IN A CONSPICUOUS/ VISIBLE AREA.
23. ALL NEW FIRE HYDRANT INSTALLATIONS, PUBLIC AND PRIVATE, SHALL HAVE A BLUE F.O.D.T. TYPE REFLECTIVE PAVEMENT MARKER INSTALLED IN THE CENTER OF THE TRAFFIC LANE NEAREST THE NEW FIRE HYDRANT.
24. ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA STANDARDS AND JEA STANDARD REQUIREMENTS. NO CONNECTION TO THE EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST. DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA-C-651. REUSE MAINS REQUIRE PRESSURE TEST ONLY.
25. ALL BACKFLOW PREVENTORS SHALL BE IN ACCORDANCE WITH JEA CROSS CONNECTION CONTROL PROGRAM. BACKFLOW PREVENTORS MUST BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER AND ANNUALLY THEREAFTER. THE CONTRACTOR SHALL CONTACT JEA COORDINATOR OR JEA DESIGNEE: DAVID KAPLAN AT (904) 665-5522. BACKFLOW PREVENTORS ON FIRE LINES OR COMBINATION FIRE/POTABLE MAINS SHALL BE HAVE FREEZE PROTECTION.
26. THE WATER TAPS DEPICTED ON THESE DESIGN PLANS SHALL BE CONSTRUCTED AS FOLLOWS: ALL POTABLE, REUSE, AND IRRIGATION WATER TAPS, FIRE LINE SERVICES AND FIRE HYDRANT INSTALLATIONS SHALL BE PERFORMED BY A LICENSED MASTER PLUMBER OR UNDERGROUND UTILITY CONTRACTOR UNDER THE FOLLOWING CONDITIONS:  
1) THE TAPS ARE TO BE SCHEDULED 48 HOURS IN ADVANCE WITH JEA.  
2) TAPS REQUIRING METER INSTALLATIONS OF SIZE 2" AND BELOW MUST INCLUDE THE SERVICE PIPE, METER BOX, AND CORP. STOP SIZED READY TO ACCEPT THE METER INSTALLATION BY JEA FORCES.  
3) JEA FORCES WILL INSTALL THE METER UPON APPLICATION AND PAYMENT BY LICENSED MASTER PLUMBER OR UTILITY CONTRACTOR AT JEA WATER AND SEWER, 515 N. LAURA ST., 1ST FLOOR.  
4) ALL TAPS REQUIRING METER INSTALLATIONS OF SIZE 3" AND ABOVE SHALL TERMINATE SIZED READY FOR VAULT, METER AND BYPASS INSTALLATION. VAULT FURNISHED BY CONTRACTOR. INSTALLATION BY JEA FORCES. SPECIAL ESTIMATE REQUIRED.
27. WATER METERS SHALL NOT BE LOCATED WITHIN PAVEMENT, CURB AND GUTTER OR DRIVEWAYS.
28. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL, SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED. REPAIR SHALL BE MADE WITHIN 24 HOURS. THE TRENCH SHALL BE ON AN IMPERMEABLE MAT AND COVERED WITH A WATERPROOF COVERING. THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL.
- SEWER
29. ALL SEWER MAINS, SERVICES, AND FITTINGS SHALL BE PVC (ASTM-3034) SDR 26 UNLESS OTHERWISE INDICATED. FORCE MAINS SHALL BE PVC DR 18 PIPE UNLESS OTHERWISE INDICATED. FORCE MAINS SHALL BE PRESSURE TESTED THE SAME AS WATER AND REUSE MAINS.
30. SANITARY SEWER SERVICES SHALL BE 6" PVC WITH A MINIMUM SLOPE OF 1.04% AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 30' TO 60' UNLESS OTHERWISE DETAILED OR RESTRICTED DUE TO DEPTH OF SEWER MAIN. FORCE MAINS SHALL HAVE A MINIMUM COVER OF 30 INCHES IN UNPAVED AREAS AND 36 INCHES IN PAVED AREAS UNLESS OTHERWISE INDICATED. SEE FORCE MAIN PROFILE SHEET(S).
31. SEWER LINES AND FORCE MAINS ARE DESIGNED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL WORK IS COMPLETED AND ACCEPTED BY F.D.E.P AND JEA.
32. PRIOR TO THE PLACEMENT OF THE LIMEROCK BASE COURSE, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES. THIS SCHEDULE SHALL BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.
33. THE CONTRACTOR SHALL INSTALL ANY ADDITIONAL AIR RELEASE VALVES AT CHANGES IN ELEVATION OF 2 FT. DUE TO ACTUAL FIELD CONDITIONS OR CONFLICTS NOT IDENTIFIED ON THESE DESIGN PLANS.
34. TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. INSPECTION SHALL BE RECORDED ON VIDEO TAPE OR DVD. ALL LINES ARE TO BE CLEANED AND FLUSHED PRIOR TO INSPECTION. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE AND ONE COPY OF THE VIDEO INSPECTION SHALL BE SUBMITTED TO THE JEA. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE. THE MAXIMUM DEFLECTION SHALL NOT EXCEED 7.5% OF THE NOMINAL DIAMETER IN ACCORDANCE WITH JEA STANDARDS. INFILTRATION AND/OR EXFILTRATION TESTING OF GRAVITY SEWERS MAY BE REQUIRED IF DEEMED NECESSARY BY THE ENGINEER. THE MAXIMUM ALLOWABLE INFILTRATION-EXFILTRATION RATE WILL BE 50 GALLONS PER INCH DIAMETER PER MILE PER DAY.

PAVING AND DRAINAGE LEGEND

EXISTING

PROPOSED

- SPOT ELEVATION  
CONTOURS  
BOUNDARY  
DRAINAGE DIVIDE - MAJOR  
DRAINAGE DIVIDE - MINOR  
STORM SEWER  
STORM SEWER INLET  
STORM SEWER MANHOLE  
MITERED END SECTION  
DRAINAGE FLOW ARROWS

EXISTING

PROPOSED

- DITCH FLOW ARROWS  
STRUCTURE NUMBERS  
DRAINAGE AREA  
SOIL BORING LOCATION  
UNDERDRAIN  
CONCRETE SIDEWALK  
CONCRETE CURB AND GUTTER  
JURISDICTIONAL WETLANDS  
FILTER BARRIER  
COIR BALES

EXISTING

PROPOSED

- SANITARY SEWER LINE  
SANITARY SEWER SERVICE  
SANITARY SEWER MANHOLE  
CLEANOUT  
FORCE MAIN  
WATER MAIN  
REUSE WATER MAIN  
FIRE PROTECTION MAIN

EXISTING

PROPOSED

- FIRE HYDRANT  
FLUSHING HYDRANT  
GATE VALVE  
REDUCER  
TEE  
BEND  
WATER METER  
BACKFLOW PREVENTER

WATER AND SEWER LEGEND

GENERAL NOTES AND LEGEND

CVS AT WILDLIGHT  
FOR

BOOS DEVELOPMENT GROUP, INC

Trusted  
Advisors,

Creating  
Community.

ENGLAND-THIMS & MILLER

14775 Old St. Augustine Rd.  
Jacksonville, Florida 32259

(904) 642-8990  
www.etmnc.com

REG-00002684 LC-0000316

ETM NO. 23-128-01  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS

DATE: MARCH 2025

PLANS PREPARED UNDER  
THE DIRECTION OF:

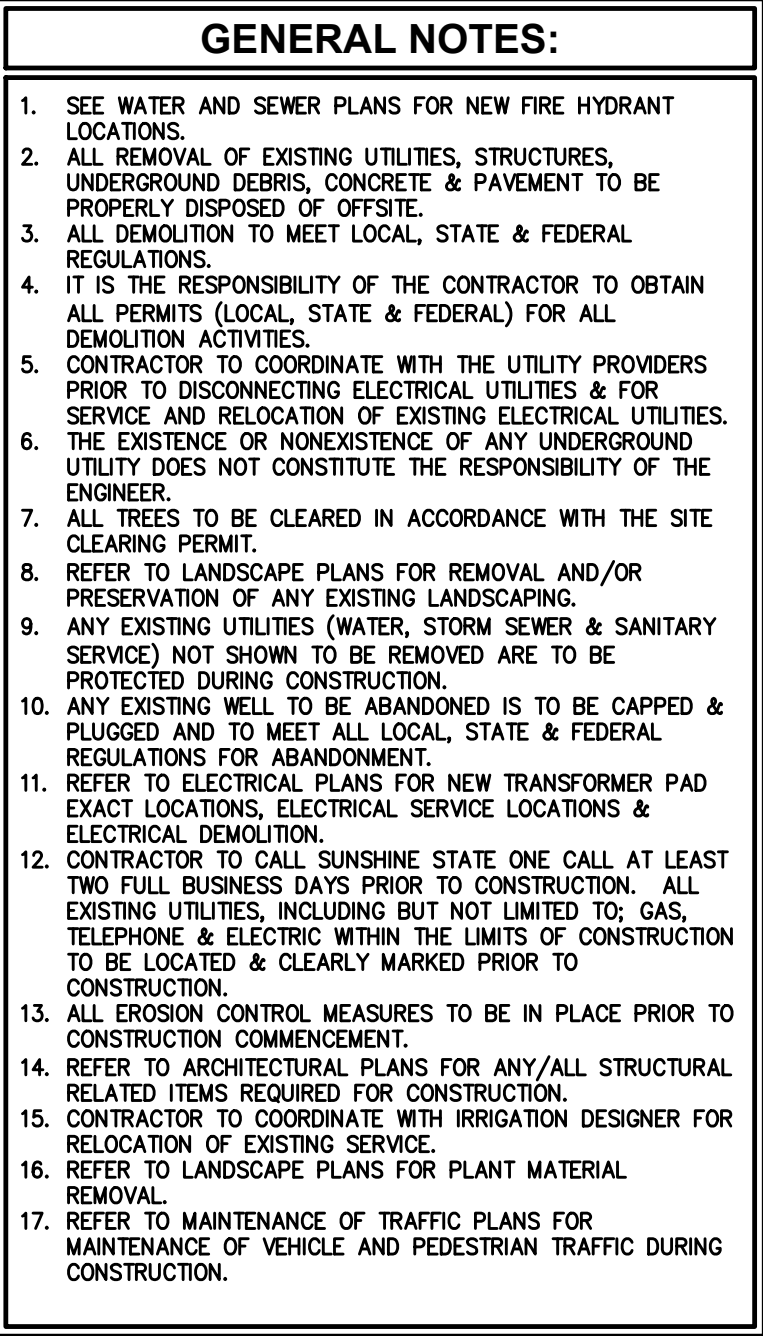
DALLAS SCHRIER  
P.E. NUMBER:

94608  
FLOTTED: March 27, 2025 - 4:36 PM. By: Kevin Ferguson

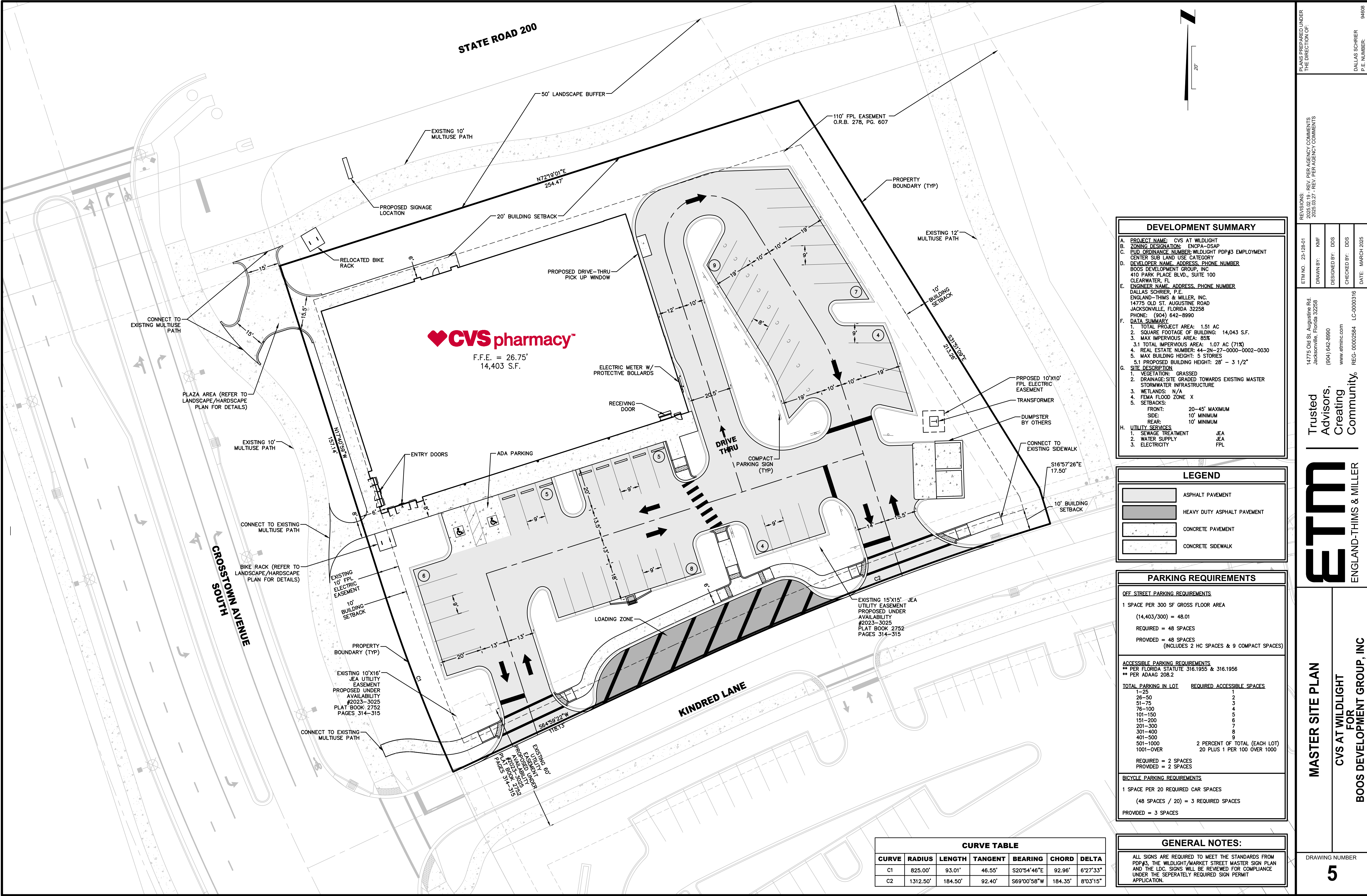
DRAWING NUMBER

3









**CVS pharmacy**  
F.F.E. = 26.75'  
14,403 S.F.

**DEVELOPMENT SUMMARY**

A. PROJECT NAME: CVS AT WILDLIGHT  
B. ZONING DESIGNATION: ENCPA-DSAP  
C. PUD ORDINANCE NUMBER: WILDLIGHT PDP#3 EMPLOYMENT  
D. CENTER SUB LAND USE CATEGORY  
DEVELOPER NAME, ADDRESS, PHONE NUMBER  
BOOS DEVELOPMENT GROUP, INC  
410 PARK PLACE BLVD., SUITE 100  
CLEARWATER, FL  
E. ENGINEER NAME, ADDRESS, PHONE NUMBER  
DALLAS SCHRIER, P.E.  
ENGLAND-THIMS & MILLER, INC.  
14775 OLD ST. AUGUSTINE ROAD  
JACKSONVILLE, FLORIDA 32258  
PHONE: (904) 642-8990  
F. DATA SUMMARY  
1. TOTAL PROJECT AREA: 1.51 AC  
2. SQUARE FOOTAGE OF BUILDING: 14,043 S.F.  
3. MAX IMPERVIOUS AREA: 85%  
3.1 TOTAL IMPERVIOUS AREA: 1.07 AC (71%)  
4. REAL ESTATE NUMBER: 44-20-27-0000-0002-0030  
5. MAX BUILDING HEIGHT: 5 STORIES  
5.1 PROPOSED BUILDING HEIGHT: 28' - 3 1/2"  
G. SITE DESCRIPTION  
1. VEGETATION: GRASSED  
2. DRAINAGE: SITE GRADED TOWARDS EXISTING MASTER STORMWATER INFRASTRUCTURE  
3. WETLANDS: N/A  
4. FEMA FLOOD ZONE X  
5. SETBACKS:  
FRONT: 20'-45' MAXIMUM  
SIDE: 10' MINIMUM  
REAR: 10' MINIMUM  
H. UTILITY SERVICES  
1. SEWAGE TREATMENT JEA  
2. WATER SUPPLY JEA  
3. ELECTRICITY FPL

**LEGEND**

ASPHALT PAVEMENT

HEAVY DUTY ASPHALT PAVEMENT

CONCRETE PAVEMENT

CONCRETE SIDEWALK

**PARKING REQUIREMENTS**

**OFF STREET PARKING REQUIREMENTS**  
1 SPACE PER 300 SF GROSS FLOOR AREA  
(14,403/300) = 48.01  
REQUIRED = 48 SPACES  
PROVIDED = 48 SPACES  
(INCLUDES 2 HC SPACES & 9 COMPACT SPACES)

**ACCESSIBLE PARKING REQUIREMENTS**  
\*\* PER FLORIDA STATUTE 316.1955 & 316.1956  
\*\* PER ADAAG 208.2

TOTAL PARKING IN LOT	REQUIRED ACCESSIBLE SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 PERCENT OF TOTAL (EACH LOT)
1001-OVER	20 PLUS 1 PER 100 OVER 1000

REQUIRED = 2 SPACES  
PROVIDED = 2 SPACES

**BICYCLE PARKING REQUIREMENTS**  
1 SPACE PER 20 REQUIRED CAR SPACES  
(48 SPACES / 20) = 3 REQUIRED SPACES  
PROVIDED = 3 SPACES

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C1	825.00'	93.01'	46.55'	S20°54'46"E	92.96'	6°27'33"
C2	1312.50'	184.50'	92.40'	S69°00'58"W	184.35'	8°03'15"

**GENERAL NOTES:**

ALL SIGNS ARE REQUIRED TO MEET THE STANDARDS FROM PDP#3, THE WILDLIGHT/MARKET STREET MASTER SIGN PLAN AND THE LDC. SIGNS WILL BE REVIEWED FOR COMPLIANCE UNDER THE SEPERATELY REQUIRED SIGN PERMIT APPLICATION.

PLANS PREPARED UNDER THE DIRECTION OF:  
DALLAS SCHRIER  
P.E. NUMBER: 94608

REVISIONS:  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

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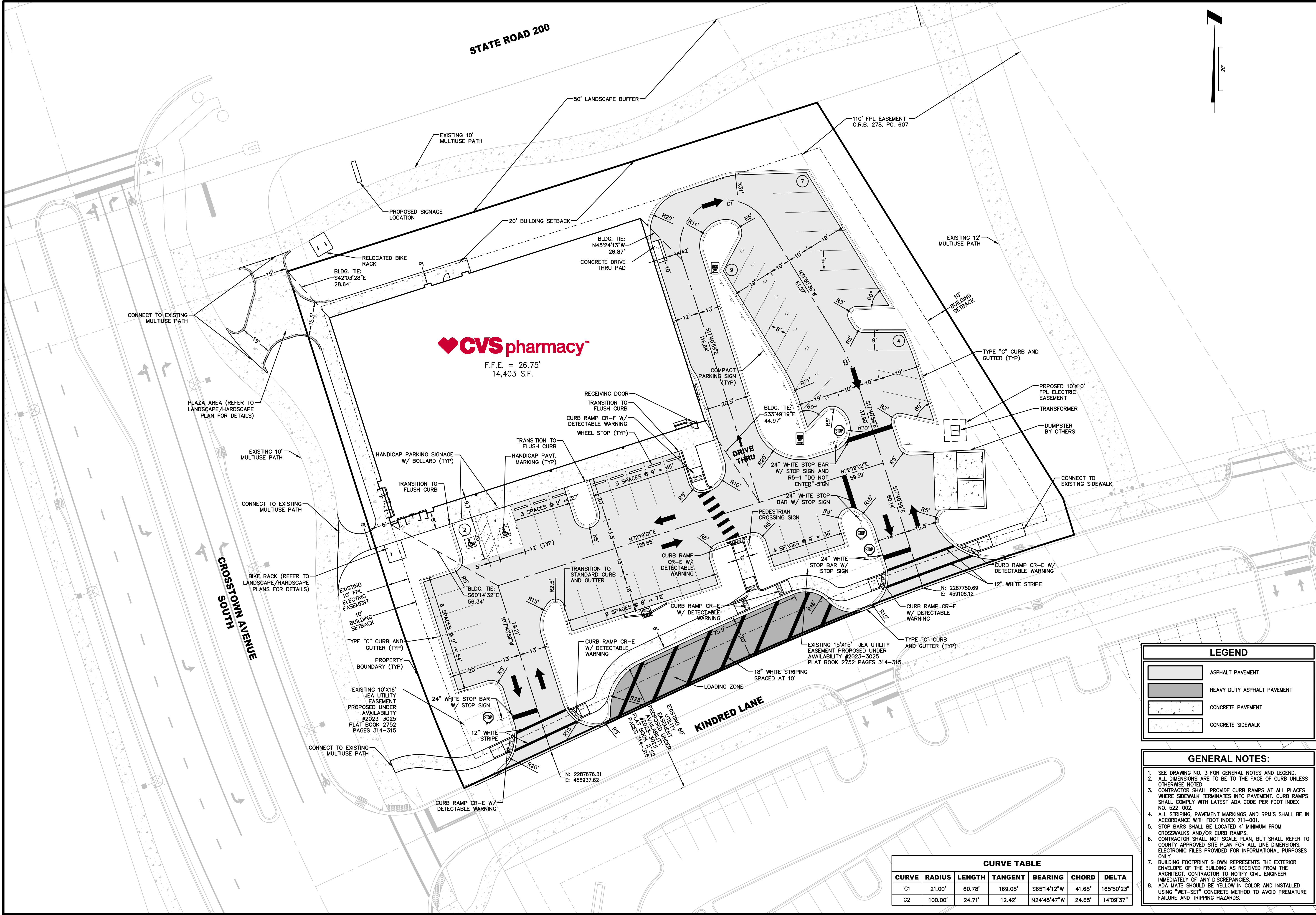
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Community.

**ETM**  
ENGLAND-THIMS & MILLER

MASTER SITE PLAN  
CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
**5**





PLANS PREPARED UNDER THE DIRECTION OF:  
DALLAS SCHRIER  
P.E. NUMBER: 94608

REVISIONS:  
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ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

1411 Edgewater Drive, Ste. 200  
Orlando, Florida 32804  
(407) 536-5379  
www.etmnc.com  
REG-00002864 LC-0000316

Trusted Advisors, Creating Community,  
**ETM**  
ENGLAND-THIMS & MILLER

SITE GEOMETRY PLAN  
CVS AT WILDLIGHT FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
**6**

94608  
Kevin Ferguson  
PLOTED: March 27, 2025 - 4:37 PM  
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THE CVS PHARMACY PARCEL IS PERMITTED TO 85% IMPERVIOUS PER EXISTING SURVMD PERMIT NO.: 139976-86  
PERMITTED IMPERVIOUS AREA (85%) = 1.18 Ac.±  
PROPOSED IMPERVIOUS AREA (70.9%) = 1.07 Ac.±

**BASIN 28**  
AREA = 10.82 Ac.  
CN = 92  
Tc = 10 min.  
K' = 484

**SMF NO. 28**  
MIN. TOB EL. = 23.00 (6.00 AC.)  
NWL EL. = 19.00 (5.05 AC.)  
BREAK POINT EL. = 13.00 (3.70 AC.)  
BOT. EL. = -11.00 (1.35 AC.)  
DHW (100 yr) EL. = 22.53  
DHW (25 yr) EL. = 21.74  
DHW (5 yr) EL. = 20.89  
DHW (Mean) EL. = 20.47

**WETLAND 28**  
DHW 25 = 21.86  
DHW 5 = 21.63  
DHW MA = 21.50

**EXISTING  
STORMWATER POND**  
PERMIT NO. 139976-86  
COUNTY NO. SP21-001

**OUTFALL 28**  
Q25 = 21.63 CFS  
QMA = 5.98 CFS

**POST-WET-28**  
AREA = 9.35 Ac.  
CN = 98  
Tc = 15 min.  
K' = 323

**BASIN 28C**  
AREA = 1.85 Ac.  
CN = 94  
Tc = 15 min.  
K' = 484

**BASIN 26**  
AREA = 10.92 Ac.  
CN = 97  
Tc = 10 min.  
K' = 484

**BASIN 28A**  
AREA = 13.23 Ac.  
CN = 95  
Tc = 15 min.  
K' = 484

**BASIN 26A**  
AREA = 2.32 Ac.  
CN = 95  
Tc = 15 min.  
K' = 484

**BASIN 26B**  
AREA = 1.67 Ac.  
CN = 95  
Tc = 15 min.  
K' = 484

**BASIN 26D**  
AREA = 3.08 Ac.  
CN = 95  
Tc = 15 min.  
K' = 484

**BASIN 26C**  
AREA = 2.61 Ac.  
CN = 95  
Tc = 15 min.  
K' = 484

**BASIN 28B**  
AREA = 6.09 Ac.  
CN = 95  
Tc = 15 min.  
K' = 484

**RY 26**  
AREA = 0.31 Ac.  
CN = 80  
Tc = 15 min.  
K' = 323

**OUTFALL 26**  
Q25 = 64.49 CFS  
QMA = 18.14 CFS

**FUTURE  
DEVELOPMENT (85%  
MAX. IMPERVIOUS)**

**FUTURE  
DEVELOPMENT (85%  
MAX. IMPERVIOUS)**

BENCHMARK  
600 NAIL IN 1" PINE TREE  
ELEV=26.70' (ASSUMED)

THE CHURCH OF ELEVEN22  
540,000 S.F.  
FFE: 27.25

KINDRED LANE

CVS pharmacy  
F.F.E. 26.75'  
14,403 S.F.

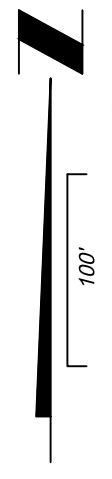
PROPERTY  
BOUNDARY

24" DRAINAGE  
STUBOUT  
CONNECTION

LINGER LONGER AVENUE SOUTH

A1A / STATE ROAD 200

COOSSTOWN BLVD SOUTH



**LEGEND**

FLOW ARROW

DRAINAGE BASIN DIVIDE

JURISDICTIONAL WETLANDS

MASTER DRAINAGE PLAN

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
**7**

Englund-Thins & Miller, Inc.  
14775 Old St. Augustine Road  
Jacksonville, FL 32258  
TEL: (904) 642-8890  
FAX: (904) 646-9485  
REG. 2584 LC - 0000316

**ETM**  
VISION • EXPERIENCE • RESULTS

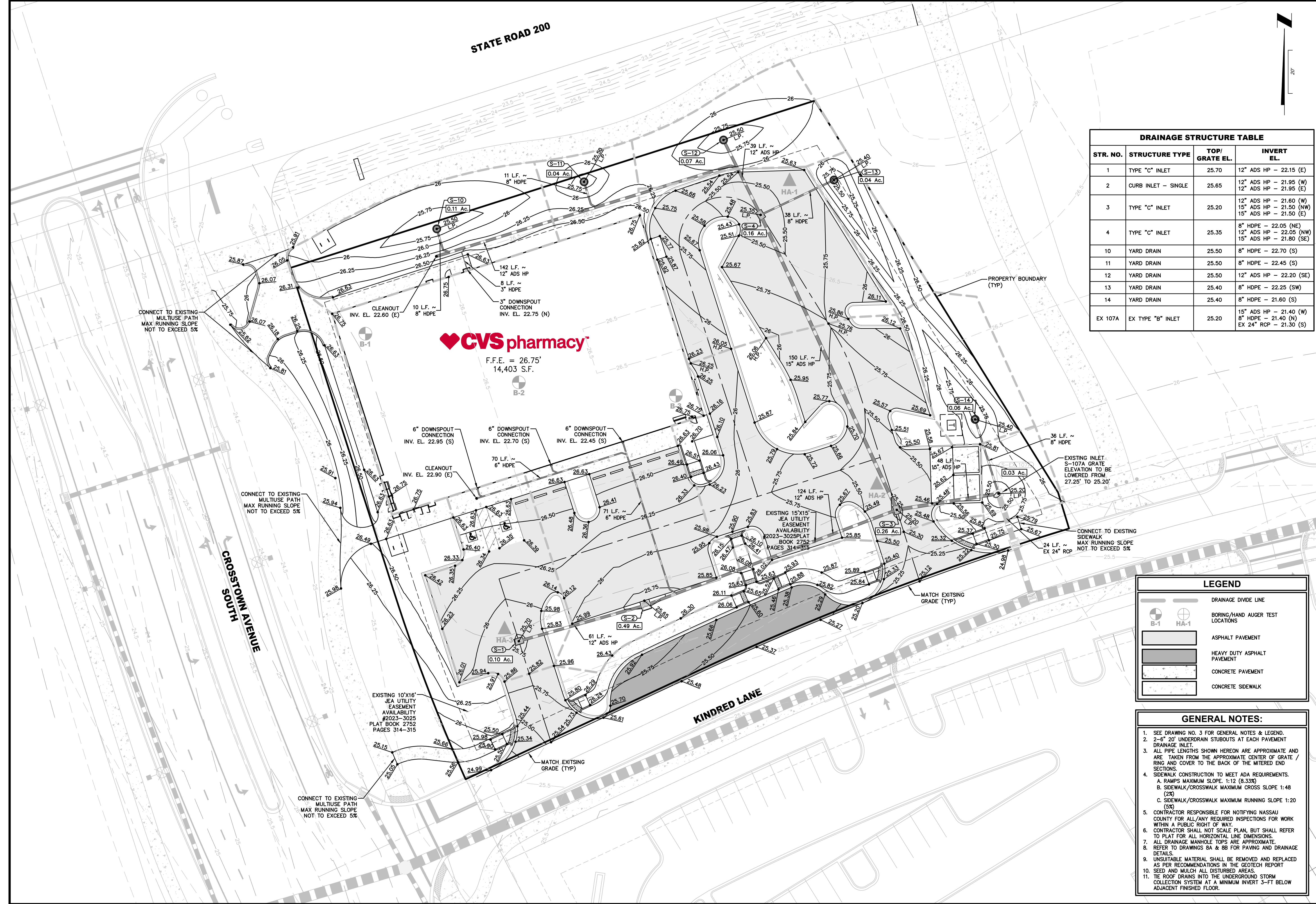
REVISIONS:  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

PLANS PREPARED UNDER THE  
DIRECTION OF:

DALLAS SCHRIER  
P.E. NUMBER: 94608





DRAINAGE STRUCTURE TABLE			
STR. NO.	STRUCTURE TYPE	TOP/ GRATE EL.	INVERT EL.
1	TYPE "C" INLET	25.70	12" ADS HP - 22.15 (E)
2	CURB INLET - SINGLE	25.65	12" ADS HP - 21.95 (W) 12" ADS HP - 21.95 (E)
3	TYPE "C" INLET	25.20	12" ADS HP - 21.60 (W) 15" ADS HP - 21.50 (NW) 15" ADS HP - 21.50 (E)
4	TYPE "C" INLET	25.35	8" HDPE - 22.05 (NE) 12" ADS HP - 22.05 (NW) 15" ADS HP - 21.80 (SE)
10	YARD DRAIN	25.50	8" HDPE - 22.70 (S)
11	YARD DRAIN	25.50	8" HDPE - 22.45 (S)
12	YARD DRAIN	25.50	12" ADS HP - 22.20 (SE)
13	YARD DRAIN	25.40	8" HDPE - 22.25 (SW)
14	YARD DRAIN	25.40	8" HDPE - 21.60 (S)
EX 107A	EX TYPE "B" INLET	25.20	15" ADS HP - 21.40 (W) 8" HDPE - 21.40 (N) EX 24" RCP - 21.30 (S)

LEGEND	
	DRAINAGE DIVIDE LINE
	BORING/HAND AUGER TEST LOCATIONS
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK

- GENERAL NOTES:**
- SEE DRAWING NO. 3 FOR GENERAL NOTES & LEGEND.
  - 2'-6" 20' UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.
  - ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
  - SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.  
A. RAMPS MAXIMUM SLOPE: 1:12 (8.33%)  
B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%)  
C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)
  - CONTRACTOR RESPONSIBLE FOR NOTIFYING NASSAU COUNTY FOR ALL/ANY REQUIRED INSPECTIONS FOR WORK WITHIN A PUBLIC RIGHT OF WAY.
  - CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO PLAT FOR ALL HORIZONTAL LINE DIMENSIONS.
  - ALL DRAINAGE MANHOLE TOPS ARE APPROXIMATE. REFER TO DRAWINGS 8A & 8B FOR PAVING AND DRAINAGE DETAILS.
  - UNSATURABLE MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT
  - SEED AND MULCH ALL DISTURBED AREAS.
  - THE ROOF DRAINS INTO THE UNDERGROUND STORM COLLECTION SYSTEM AT A MINIMUM INVERT 3'-FT BELOW ADJACENT FINISHED FLOOR.

PLANS PREPARED UNDER THE DIRECTION OF:  
DALLAS SCHRIER  
P.E. NUMBER: 94608

REVISIONS:  
ETW NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

1411 Edgewater Drive, Ste. 200  
Orlando, Florida 32804  
(407) 536-5379  
www.etmnc.com  
REG-00002584 LC-0000316

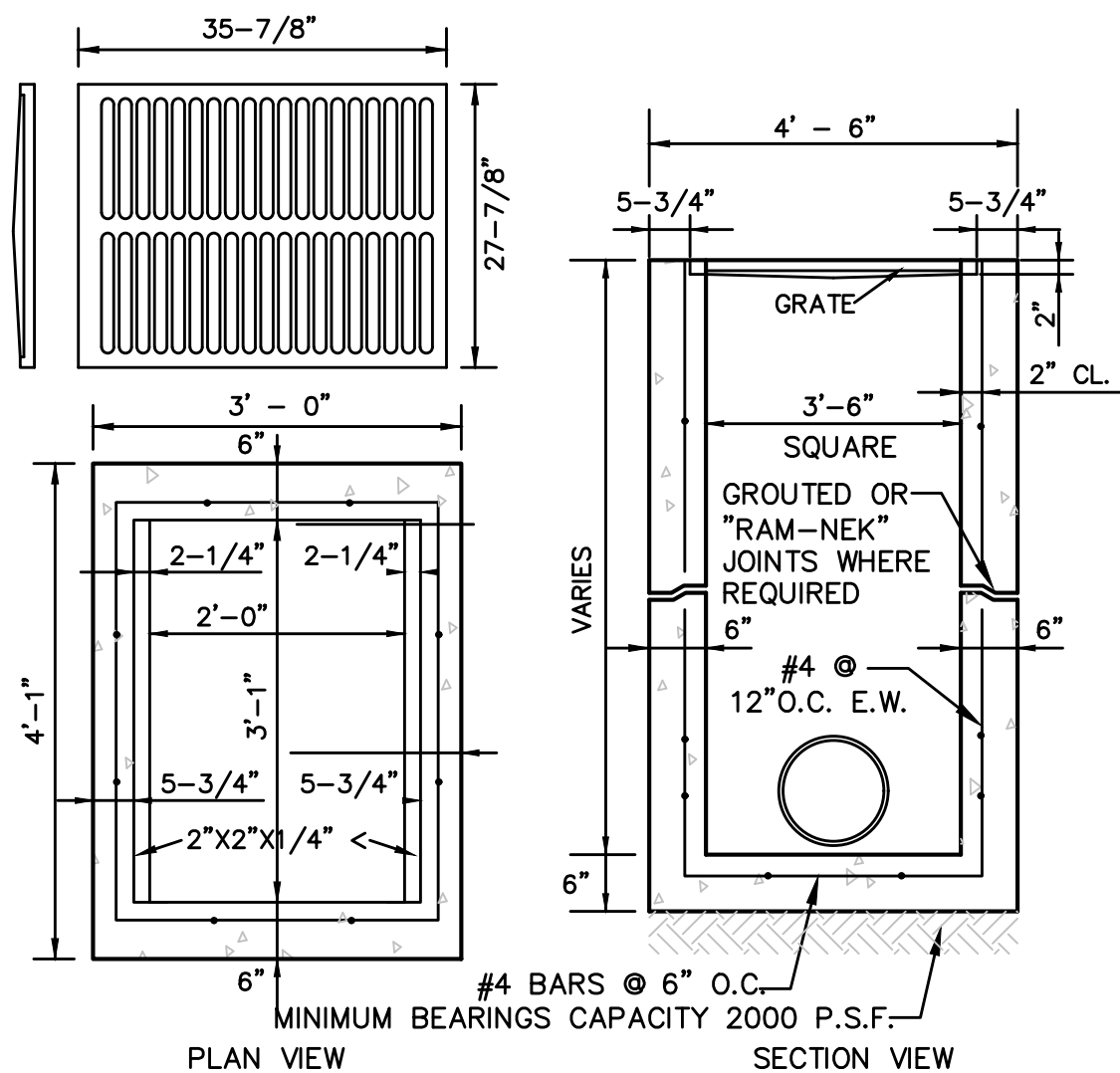
Trusted Advisors, Creating Community,  
**ETM**  
ENGLAND-THIMS & MILLER

PAVING AND DRAINAGE PLAN  
CVS AT WILDLIGHT FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
**8**

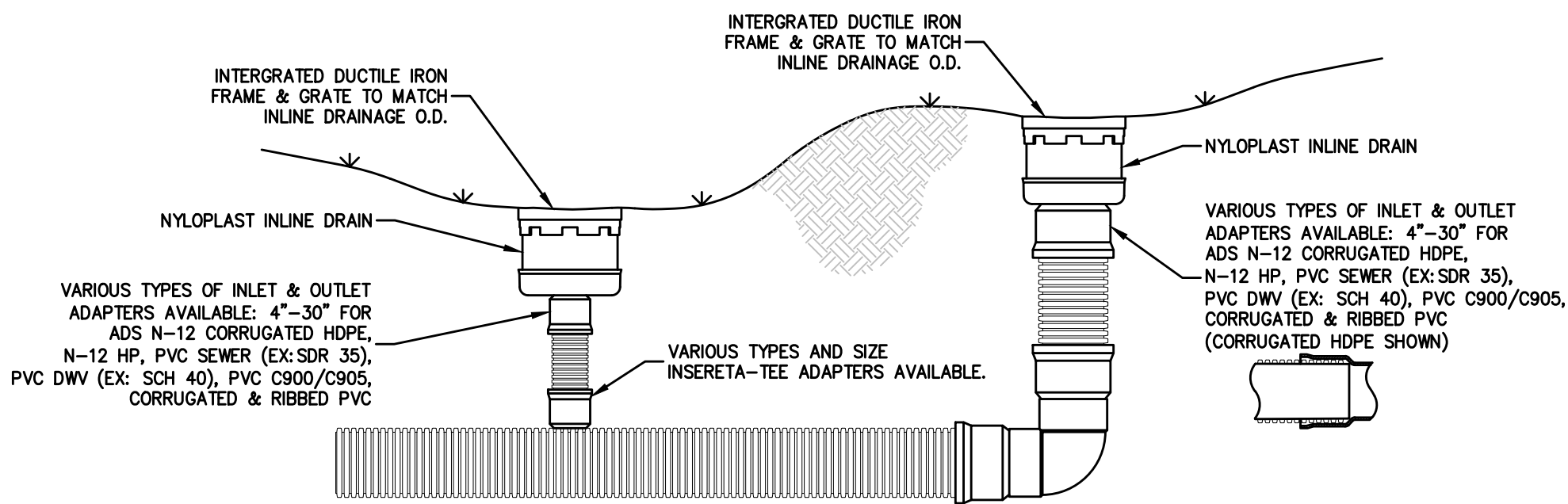
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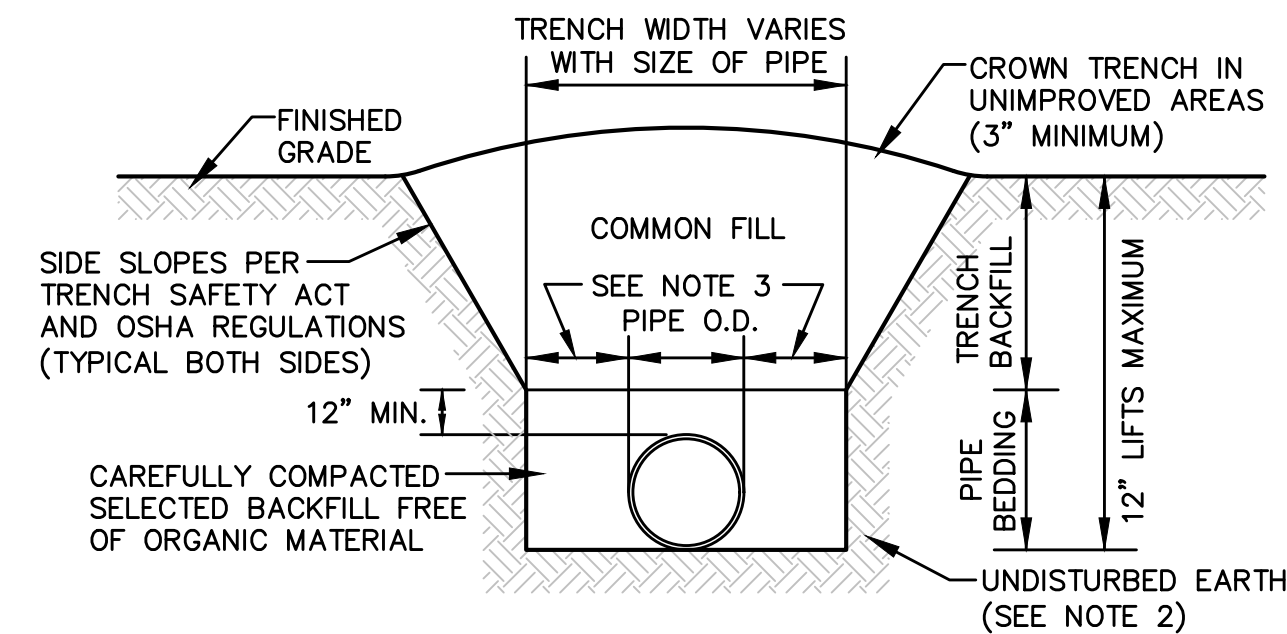
- NOTES:**
1. CONCRETE DESIGN STRENGTH 4,000 PSI.
  2. ALL GRATES TO BE TRAFFIC BEARING GRATE.
  3. CONTRACTOR SHALL PLACE A 10' WIDE SOD COLLAR AROUND ALL INLETS (NOT IN PAVEMENT)

**STORM SEWER TYPE "C" INLET**  
N.T.S.



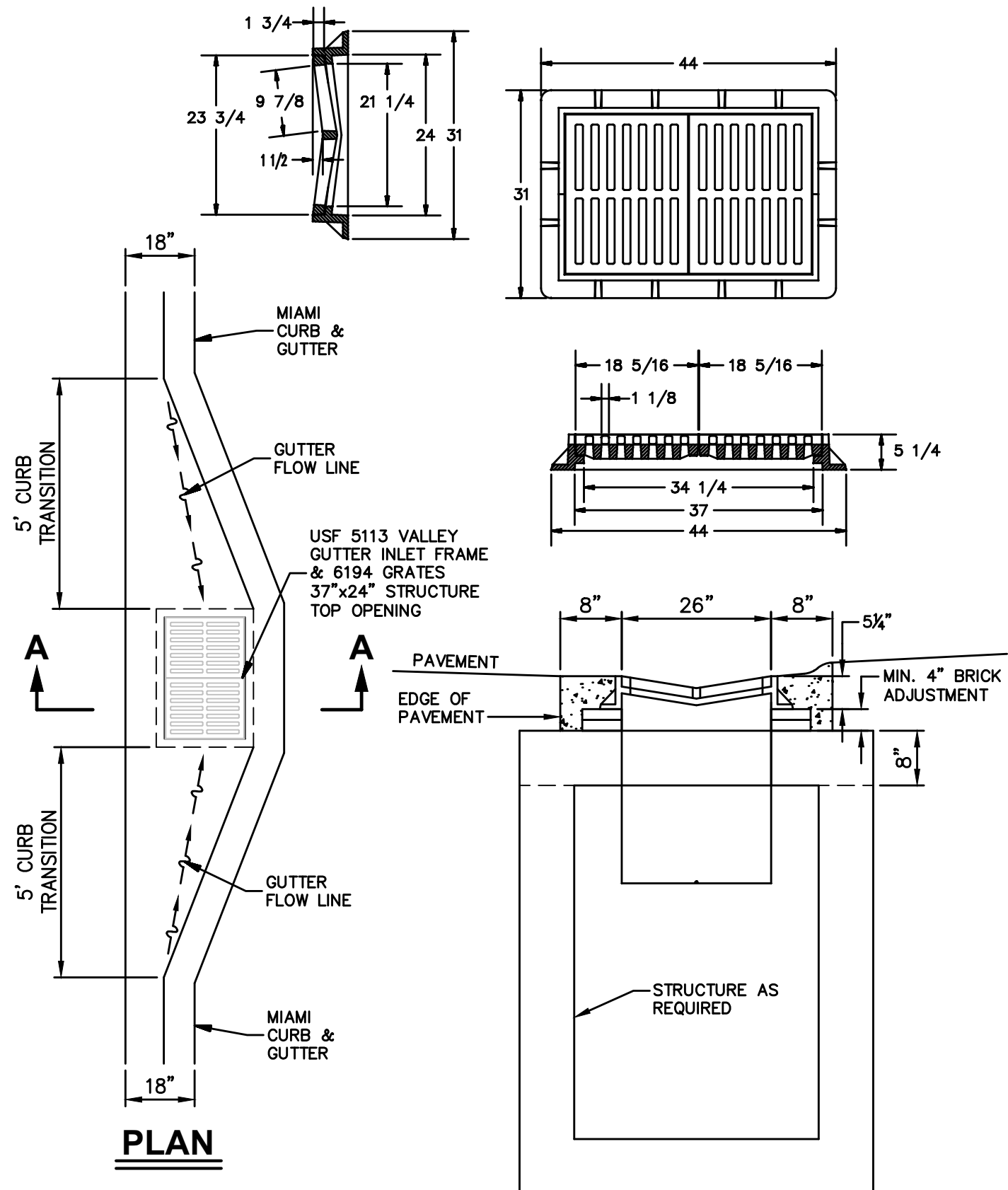
- NOTE:**
1. CONTRACTOR SHALL USE FILTER WRAP AROUND ALL HDPE JOINTS PER MANUFACTURER'S RECOMMENDATIONS.
  2. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
  3. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
  4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
  5. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
  6. DIMENSIONS ARE IN INCHES.
  7. SEE DRAWING NO. 7001-110-275 FOR N-12 HP BELL INFORMATION.
  8. INSERTA-TEE ADAPTERS CREATE WATER TIGHT JOINT BETWEEN ADAPTER AND MAINLINE PIPE.

**NYLOPLAST INLINE DRAIN SYSTEM USING INSERTA-TEE CONNECTION**  
**YARD DRAIN - STORM SEWER INLETS**  
NYLOPLAST OR APPROVED EQUIVALENT  
N.T.S.

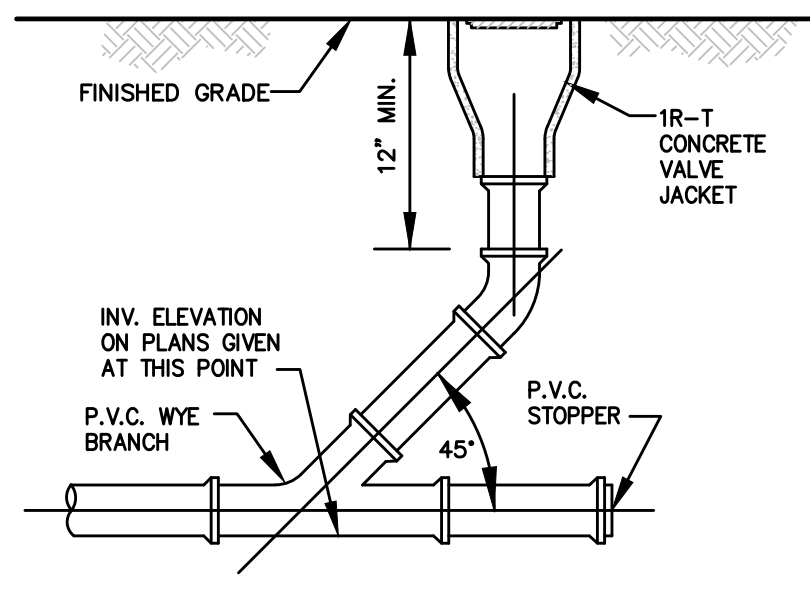


- NOTES:**
1. TRENCH AND PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% MAX. DENSITY (AASHTO T-180).
  2. USE TYPE B BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE COUNTY.
  3. 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
  4. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
  5. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
  6. REFER TO MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
  7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS

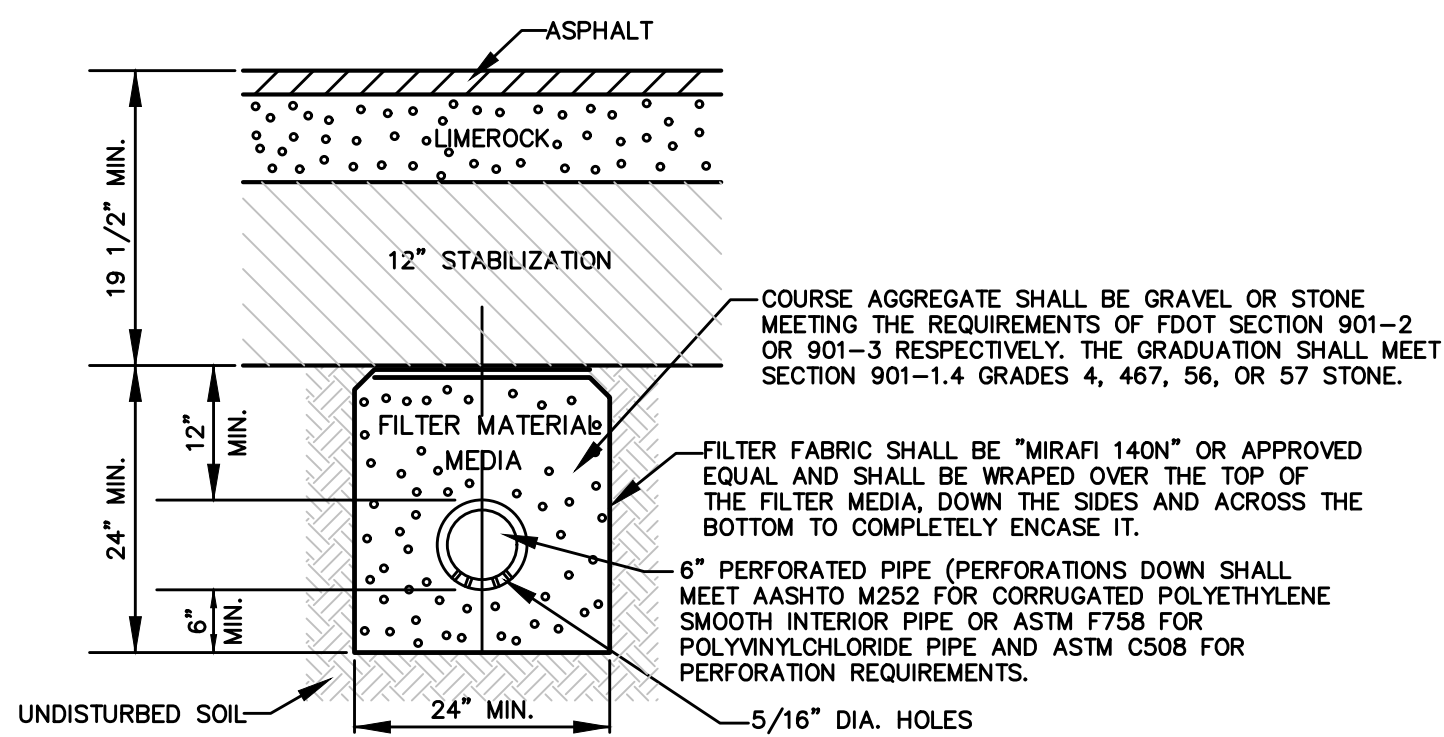
**TYPE B BEDDING AND TRENCH DETAIL**  
N.T.S.



**SINGLE VALLEY GUTTER INLET DETAIL**  
N.T.S.

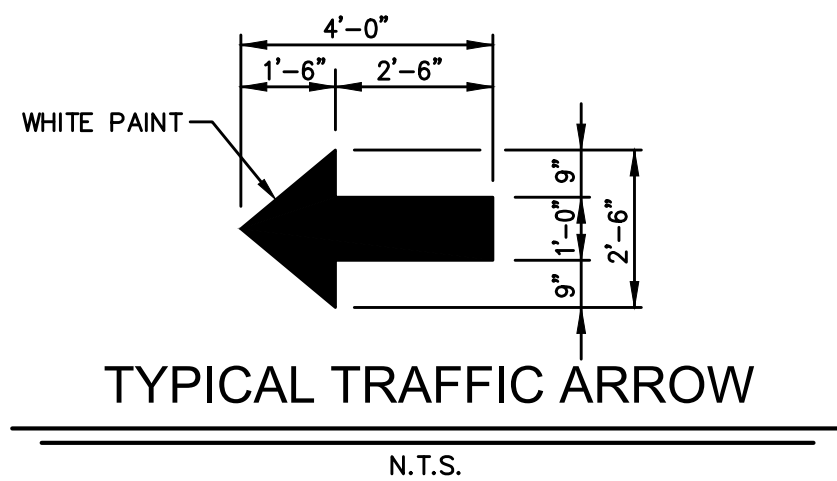


**CLEAN OUT**  
N.T.S.

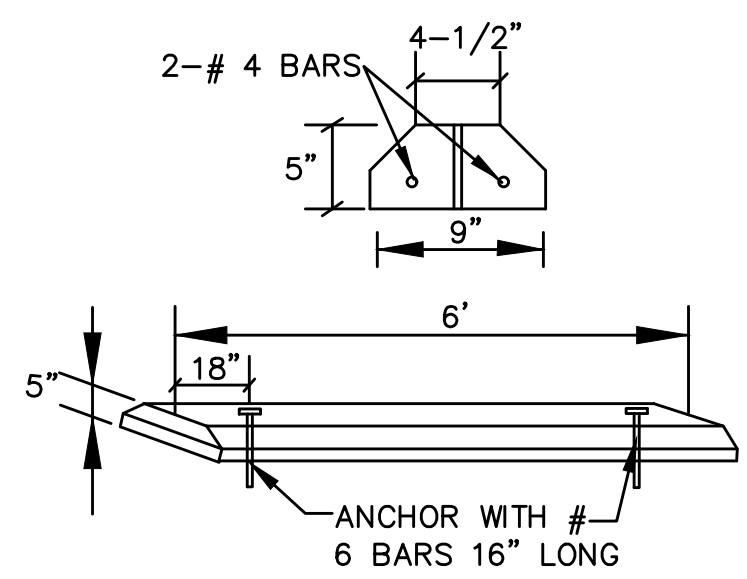


- NOTES:**
1. PIPE USED FOR SUB SOIL DRAINS SHALL MEET A.S.T.M. D 3033 FOR POLYVINYL-CHLORIDE PIPE.
  2. CONTRACTOR SHALL PROVIDE MINIMUM 20' STUBOUTS ON EACH SIDE OF ALL DRAINAGE INLETS. STUBOUT LENGTHS IN EXCESS OF 20' MINIMUM SHALL BE AS SHOWN ON PAVING AND DRAINAGE SHEETS.
  3. MINIMUM PIPE SLOPE OF 0.30%.
  4. CONTRACTOR SHALL PROVIDE CLEANOUTS AT EVERY 200 O.C. AND AT END OF PIPE.
  5. THE CONTRACTOR SHALL CONTACT OWNER'S SOIL ENGINEER TO DETERMINE LIMITS OF ROADWAY UNDERDRAIN.

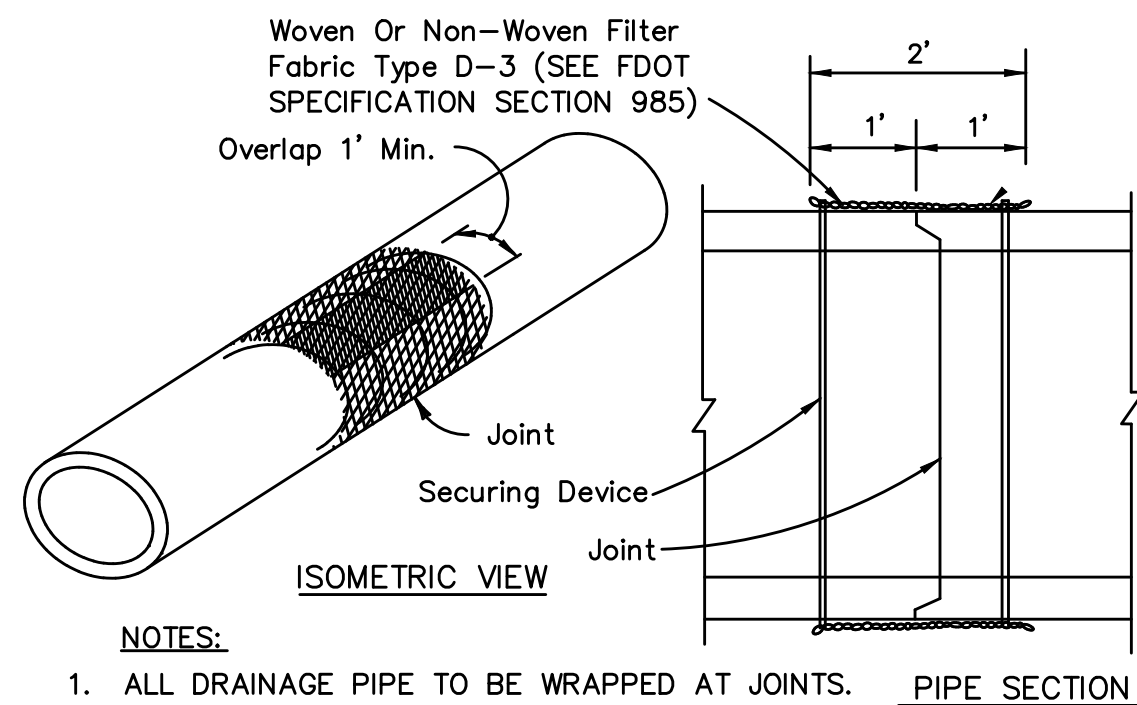
**ROADWAY UNDERDRAIN DETAIL**  
N.T.S.



**TYPICAL TRAFFIC ARROW**  
N.T.S.

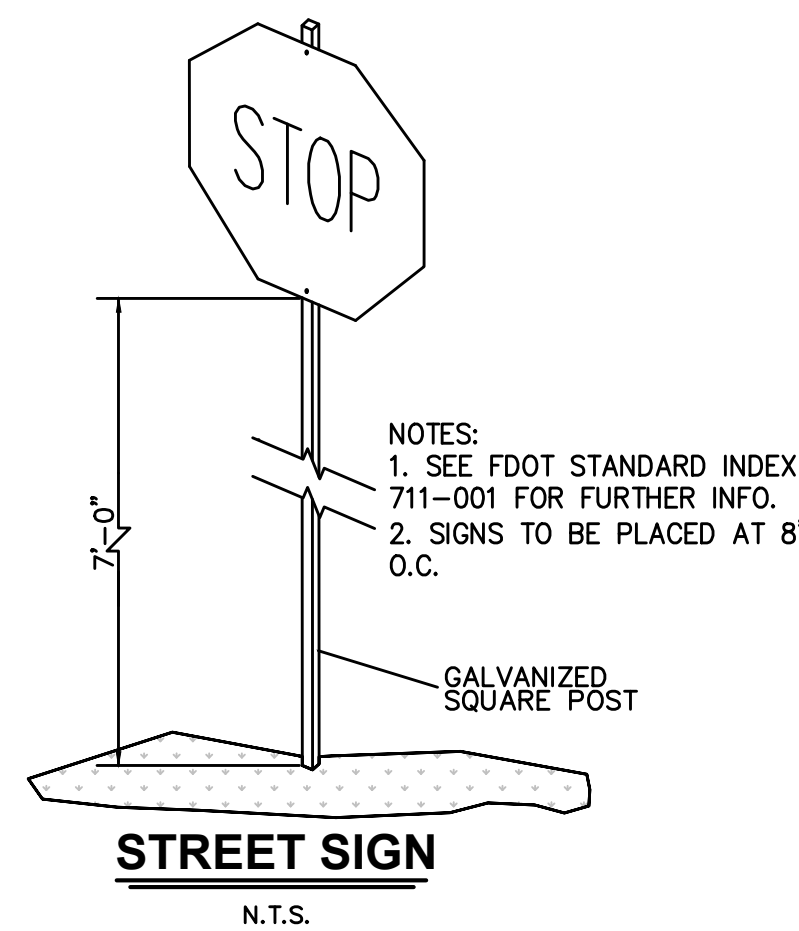


**PREFABRICATED WHEEL STOP**  
N.T.S.

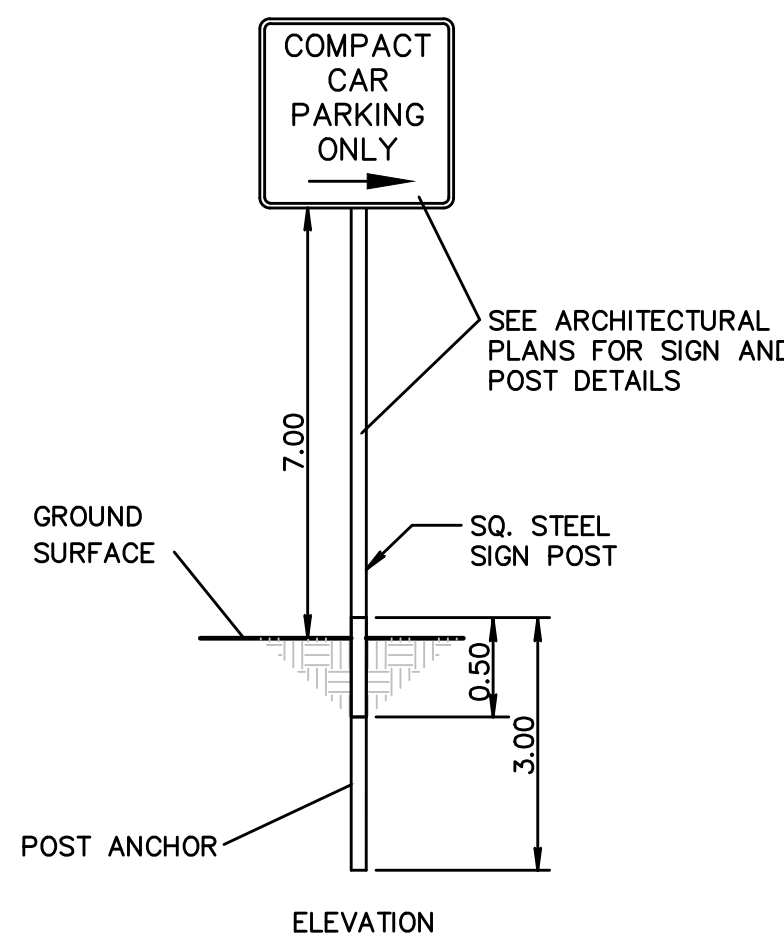


- NOTES:**
1. ALL DRAINAGE PIPE TO BE WRAPPED AT JOINTS.
  2. COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS.

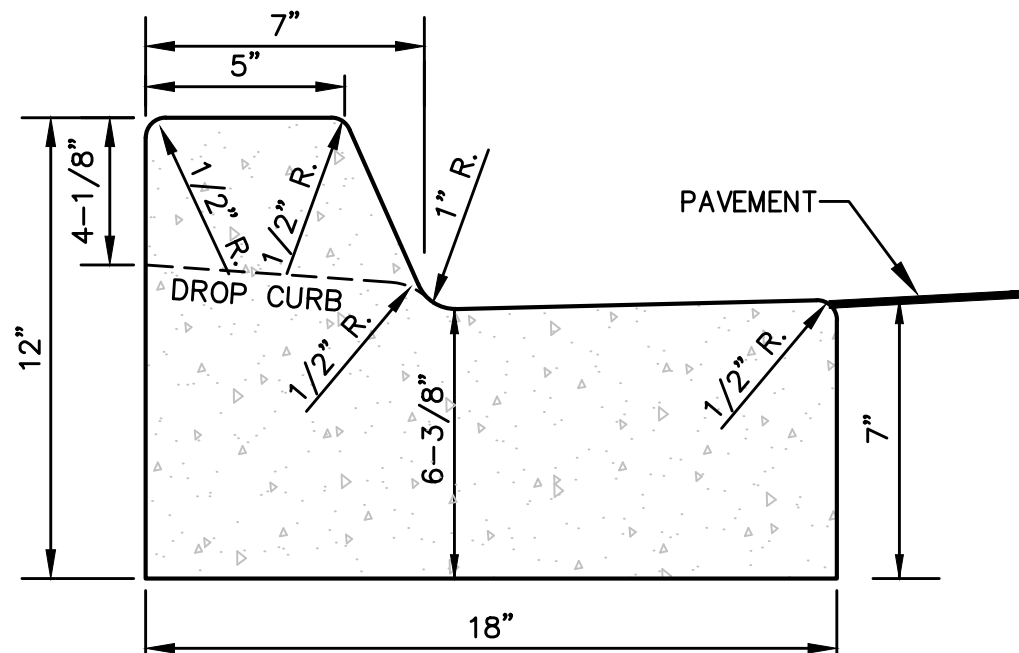
**FILTER FABRIC JACKET**  
N.T.S.



**STREET SIGN**  
N.T.S.



**COMPACT PARKING SIGN**  
N.T.S.

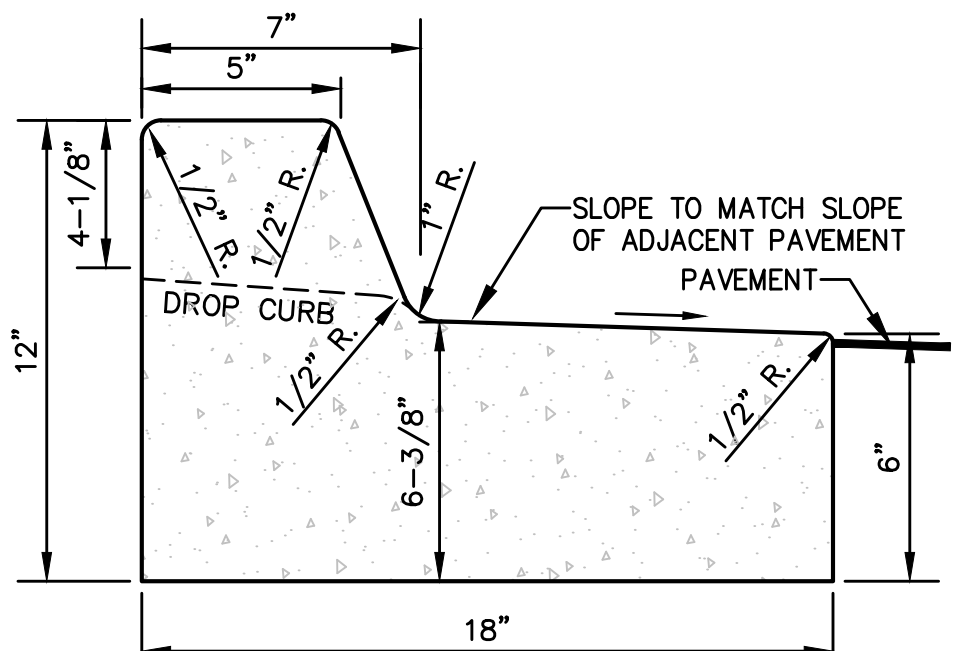


STANDARD CURB AND GUTTER

N.T.S.

CURB AND CURB & GUTTER NOTES:

1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CONCRETE SHALL BE CLASS 1 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD.
3. WHEN USED ON THE HIGH SIDE OF ROADWAY SECTIONS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. WHERE THIS CONDITION IS ENCOUNTERED, THE FRONT FACE VERTICAL DIMENSION SHALL REMAIN AS SHOWN FOR NORMAL SECTIONS SHOWN HEREON.

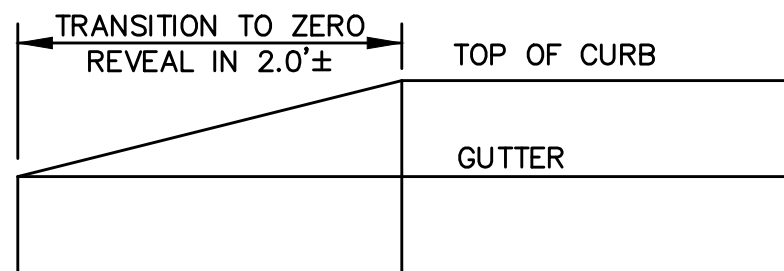


TYPE "C" CURB AND GUTTER  
TO BE USED AT ALL MEDIANS

N.T.S.

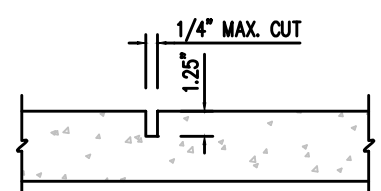
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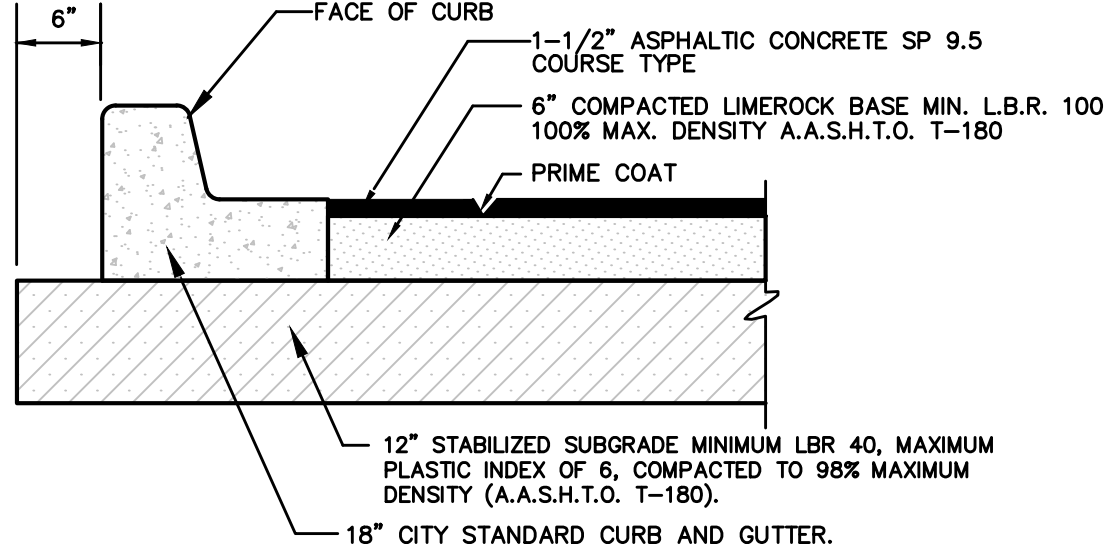
CURB TRANSITION DETAIL

N.T.S.



CONCRETE JOINT DETAIL

N.T.S.

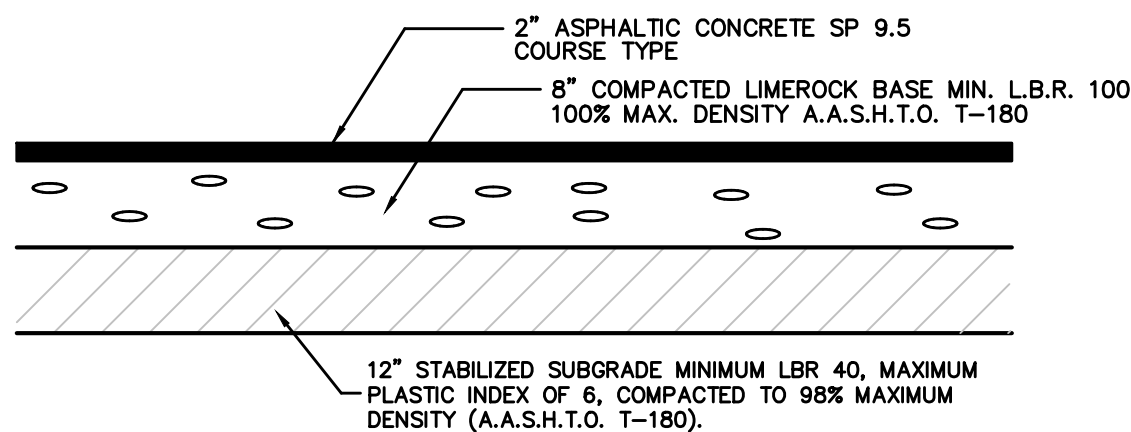


TYPICAL PAVEMENT SECTION

N.T.S.

NOTES:

1. ALL DISTURBED AREAS TO BE SEED AND MULCHED
2. SOIL ANALYSIS MAY INDICATE THE NEED FOR THICKER BASE COURSES THAN THOSE HEREIN. THE PAVEMENT THICKNESS SHOWN HEREIN ARE NOT INTENDED TO BE ABSOLUTE, BUT ARE PRELIMINARY CRITERIA AND MAY BE MODIFIED TO ACCOMMODATE THE BEARING CAPACITY OF VARIOUS SUBGRADES.
3. ALL ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 331 AND/OR 333, FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
5. CONTRACTOR TO VERIFY PAVEMENT SECTION WITH GEOTECHNICAL REPORT.

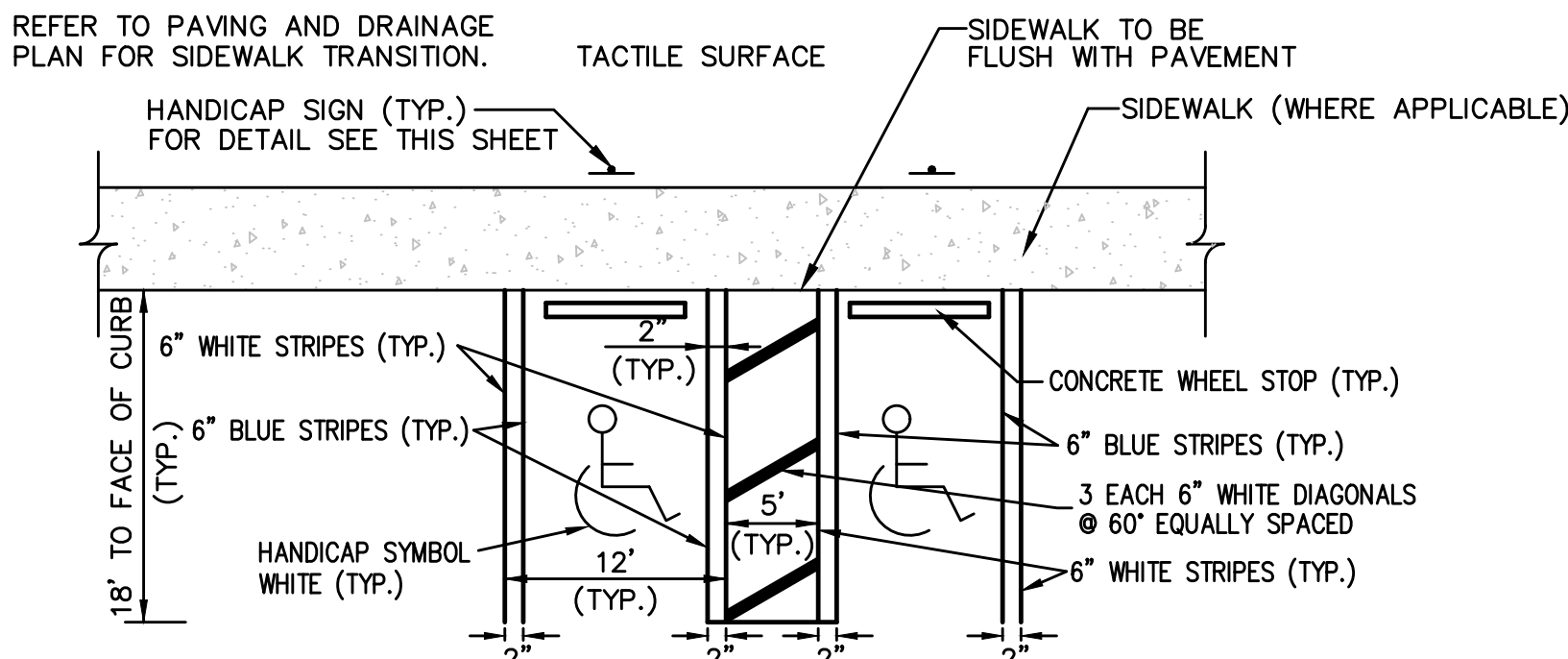


HEAVY DUTY ASPHALT PAVEMENT SECTION

N.T.S.

NOTES:

1. ALL DISTURBED AREAS TO BE SEED AND MULCHED
2. SOIL ANALYSIS MAY INDICATE THE NEED FOR THICKER BASE COURSES THAN THOSE HEREIN. THE PAVEMENT THICKNESS SHOWN HEREIN ARE NOT INTENDED TO BE ABSOLUTE, BUT ARE PRELIMINARY CRITERIA AND MAY BE MODIFIED TO ACCOMMODATE THE BEARING CAPACITY OF VARIOUS SUBGRADES.
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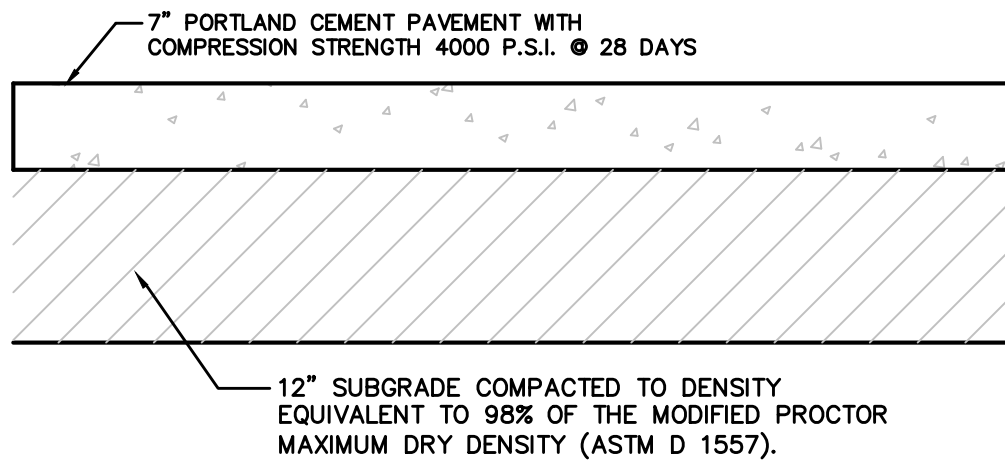


UNIVERSAL HANDICAP PARKING DETAIL

N.T.S.

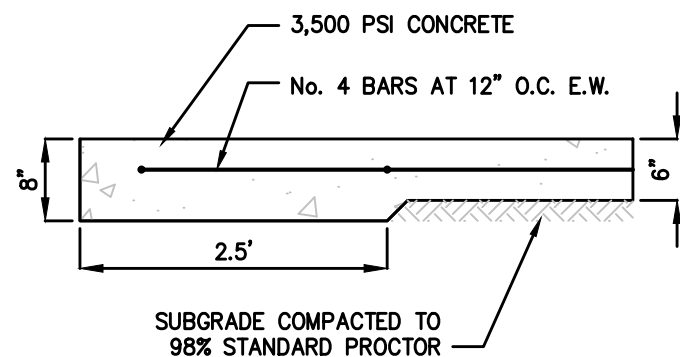
NOTE:

1. HANDICAP RAMPS, SPACES AND SIGNAGE SHALL MEET AMERICAN NATIONAL STANDARD A117.1 AND ALL APPLICABLE CITY AND STATE REQUIREMENTS.
2. THE CONTRACTOR SHALL INSTALL DETECTABLE WARNING SURFACES IN ACCORDANCE WITH A.D.A. REQUIREMENTS. REFER TO FDOT STANDARD INDEX 522-002 FOR DETECTABLE WARNING PLACEMENT.
3. ALL PAINT AND STRIPING SHALL BE IN ACCORDANCE WITH FDOT INDEX 711-001.



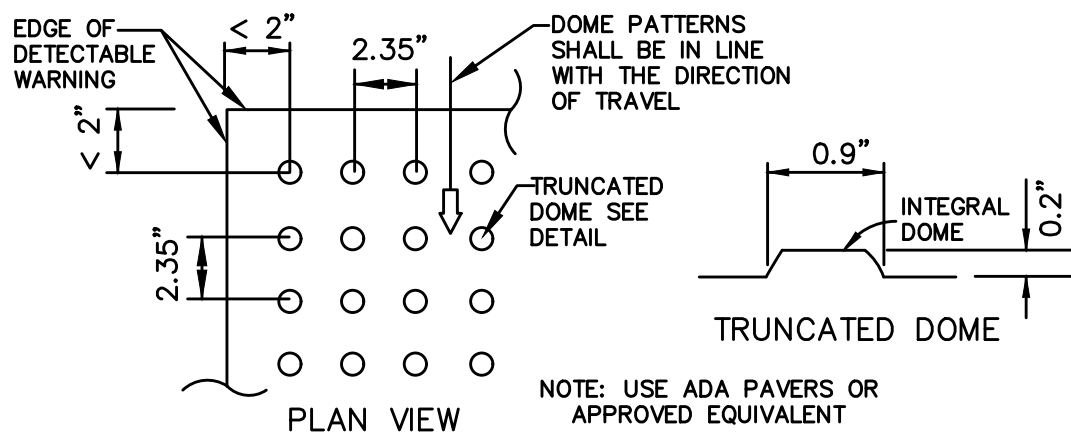
TYPICAL CONCRETE PAVEMENT SECTION

N.T.S.



DUMPSTER PAD APRON PAVEMENT SECTION

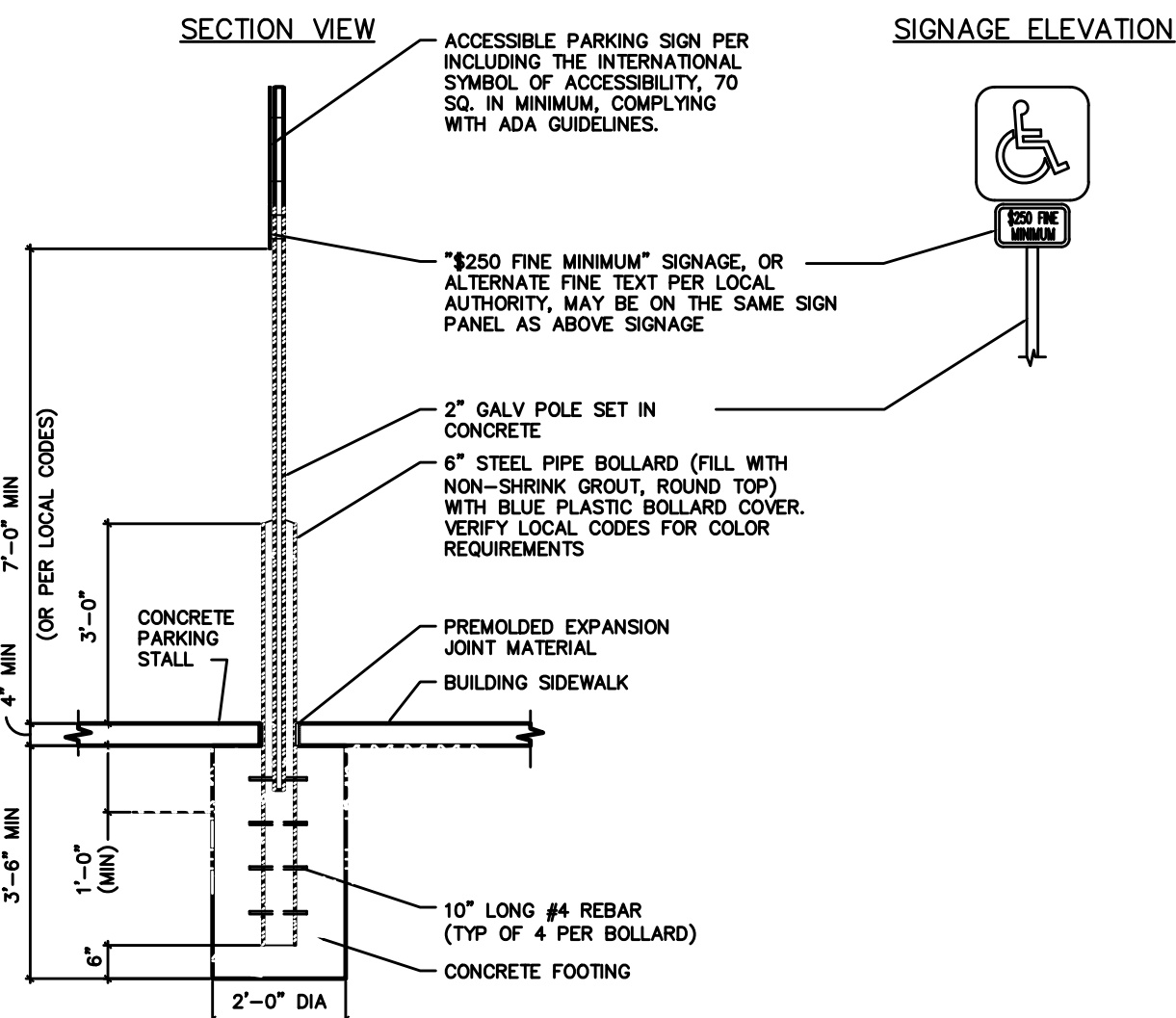
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CURB RAMP DETECTABLE WARNING

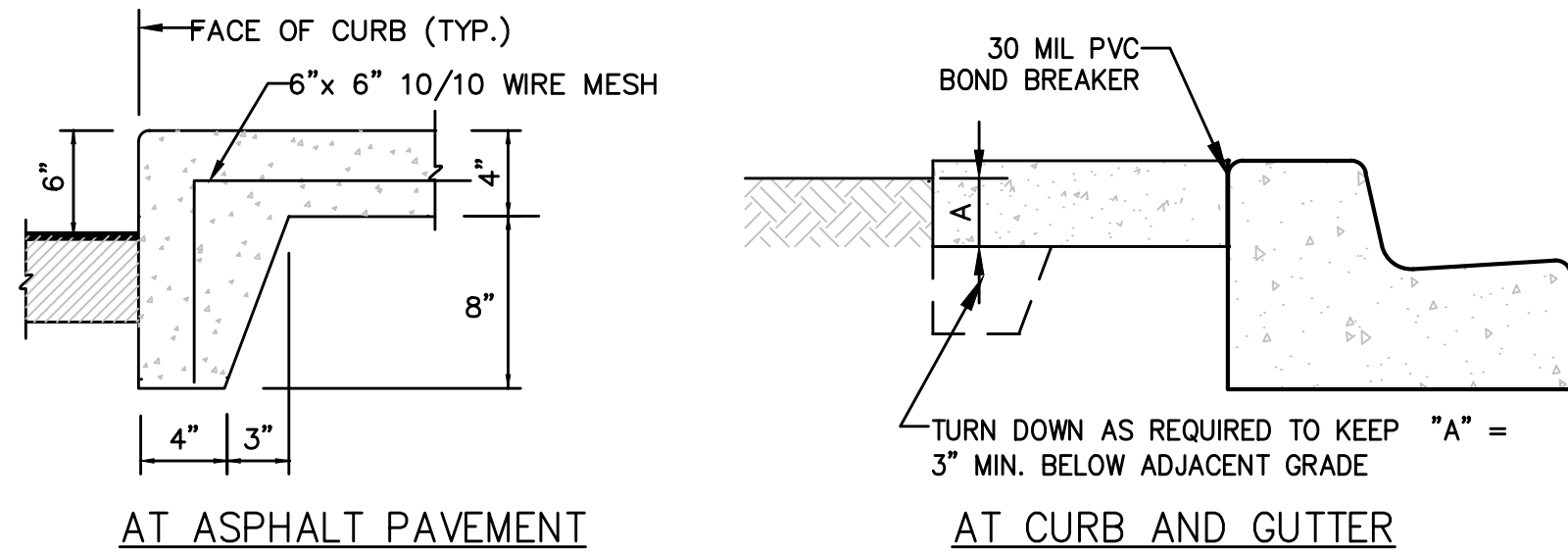
N.T.S.

ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB



BOLLARD ACCESSIBLE SIGNAGE

N.T.S.

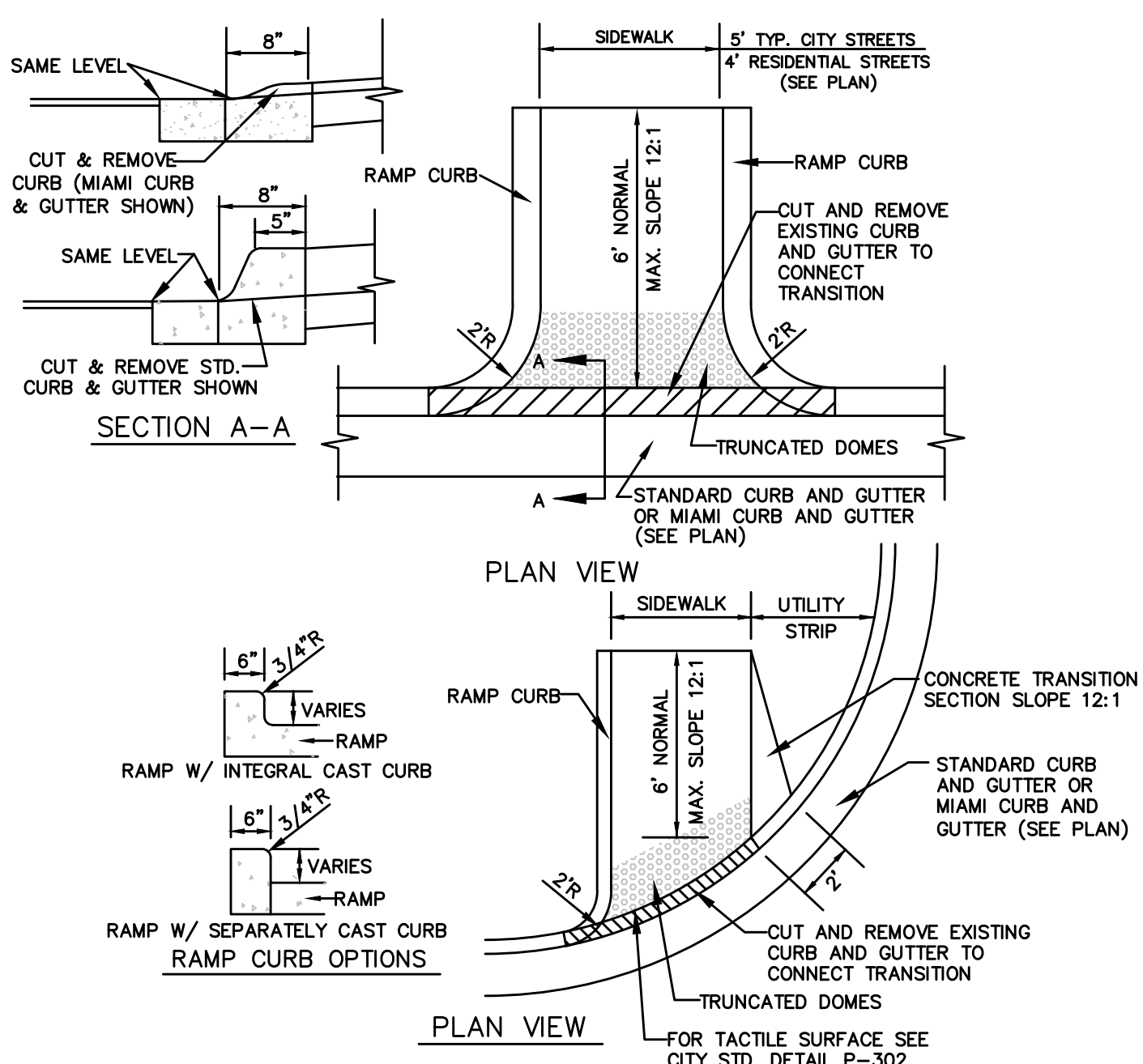


CONCRETE WALK

N.T.S.

NOTES:

1. CONSTRUCT STRAIGHT JOINTS WITH FACE PERPENDICULAR TO SURFACE OF CONCRETE. TRAVERSE JOINTS SHALL BE AT RIGHT ANGLES TO CENTERLINE UNLESS OTHERWISE INDICATED ON PLANS.
2. PROVIDE EXPANSION JOINTS AT 100' INTERVAL MAXIMUM SPACING ON CENTER.
3. PROVIDE EXPANSION JOINTS FILLER FOR JOINTS ABUTTING CURBS, CATCH BASINS, MANHOLES, INLETS STRUCTURES, WALKS AND OTHER FIXED OBJECTS UNLESS OTHERWISE INDICATED ON PLANS.
4. EXTEND JOINTS FILLER FULL WIDTH AND DEPTH OF JOINT, AND 1/2" BELOW FINISHED SURFACE. PLACE SEALANT OVER JOINT FILLER PER MANUFACTURERS RECOMMENDATIONS.
5. USE PREMOLED ASPHALT-IMPREGNATED FIBERBOARD, 1/2" THICK CONFORMING TO ASTM D1751. CONTRACTION JOINT SHALL BE SAW CUT (1/4" WIDE BY 1" DEEP).
6. FINISHED SURFACE FOR CONCRETE SIDEWALK SHALL BE GRAY CONCRETE WITH LIGHT BROOM FINISH PERPENDICULAR TO LINE OF TRAFFIC (UNLESS OTHERWISE INDICATED ON PLANS).
7. PROVIDE CRACK CONTROL JOINTS @ (SAME AS WIDTH) O.C.
8. PROVIDE 16" STRIP SOD ADJACENT TO ALL EDGES OF SIDEWALK, CURB AND PAVEMENT AREAS.
9. CONCRETE COMPRESSION STRENGTH 3000 P.S.I. @ 28 DAYS UNLESS OTHERWISE APPROVED BY ENGINEER OF RECORD.
10. SIDEWALK TO BE CONSTRUCTED WITH SLOPES COMPLYING TO WITH LATEST ADA CODE AND FDOT INDEX 522-001. SIDEWALK MAX. VERTICAL SLOPE OF 5.0% AND MAX CROSS SLOPE OF 2.0%.



STANDARD HANDICAP RAMP DETAILS

N.T.S.

NOTES:

1. HANDICAP RAMPS, SPACES AND SIGNAGE SHALL MEET AMERICAN NATIONAL STANDARD A117.1 AND ALL APPLICABLE CITY AND STATE REQUIREMENTS.
2. THE CONTRACTOR SHALL INSTALL DETECTABLE WARNING SURFACES IN ACCORDANCE WITH A.D.A. REQUIREMENTS. REFER TO FDOT STANDARD INDEX 522-002 FOR FURTHER INFORMATION.

PAVING AND DRAINAGE DETAILS

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER

9B

14775 Old St. Augustine Rd.  
Jacksonville, Florida 32258

Trusted  
Advisors,  
Creating  
Community.

ETM  
ENGLAND-THIMS & MILLER

REVISIONS:

ETM NO. 23-128-01

DRAWN BY: KMF

DESIGNED BY: DDS

CHECKED BY: DDS

DATE: MARCH 2025

PLANS PREPARED UNDER  
THE DIRECTION OF:

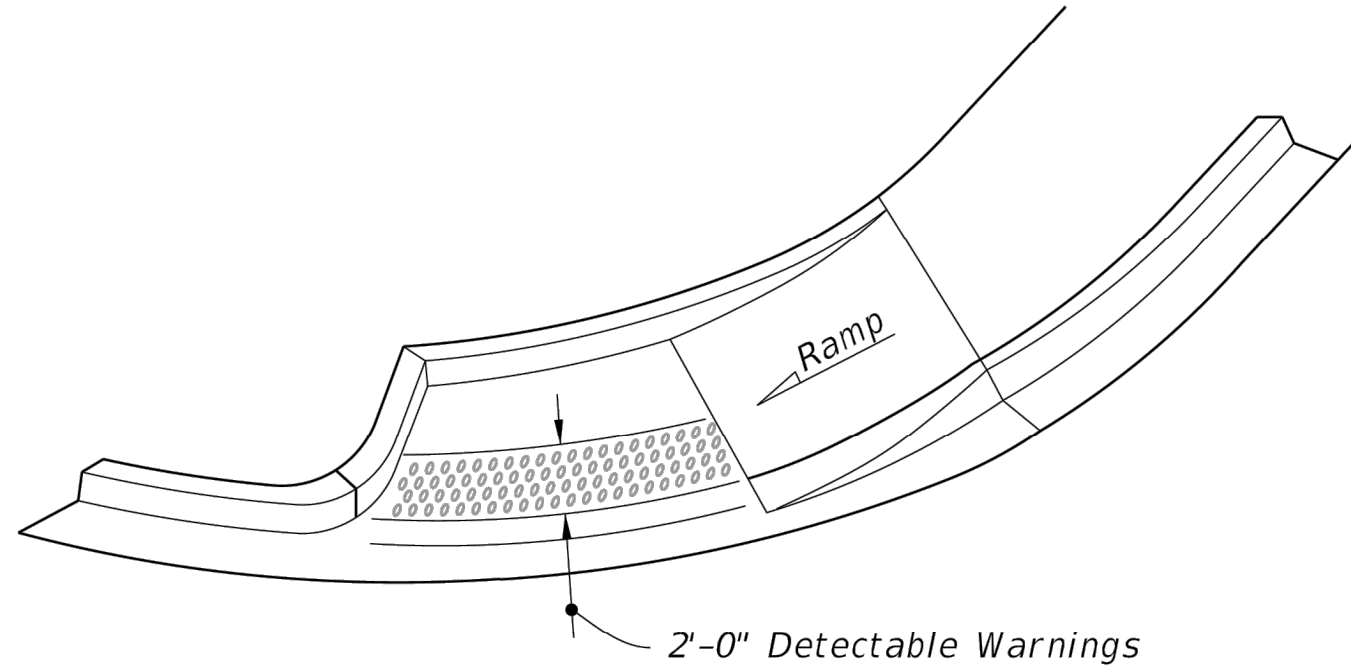
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2025.03.27 - REV. PER AGENCY COMMENTS

DALLAS SCHRIER  
P.E. NUMBER:

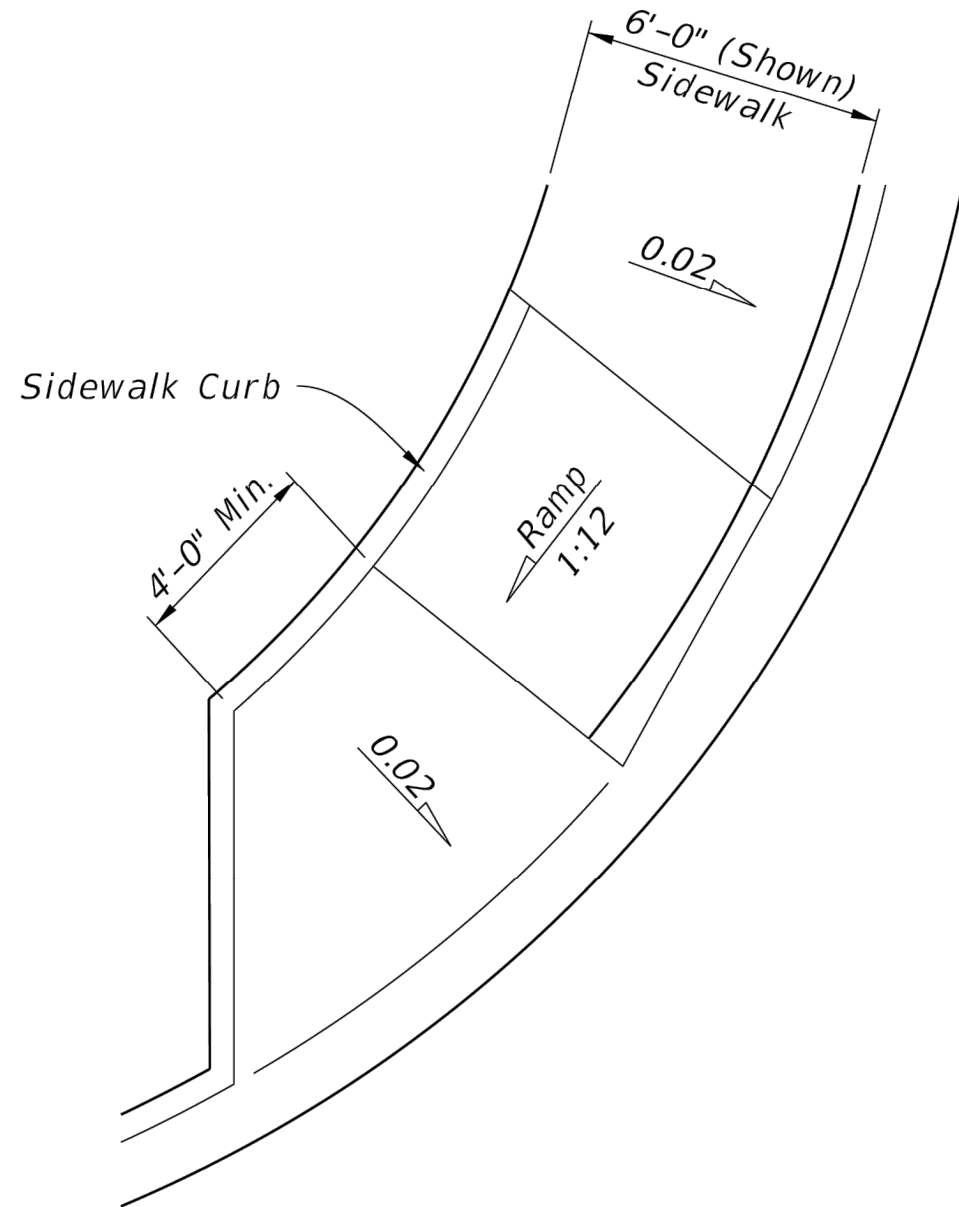
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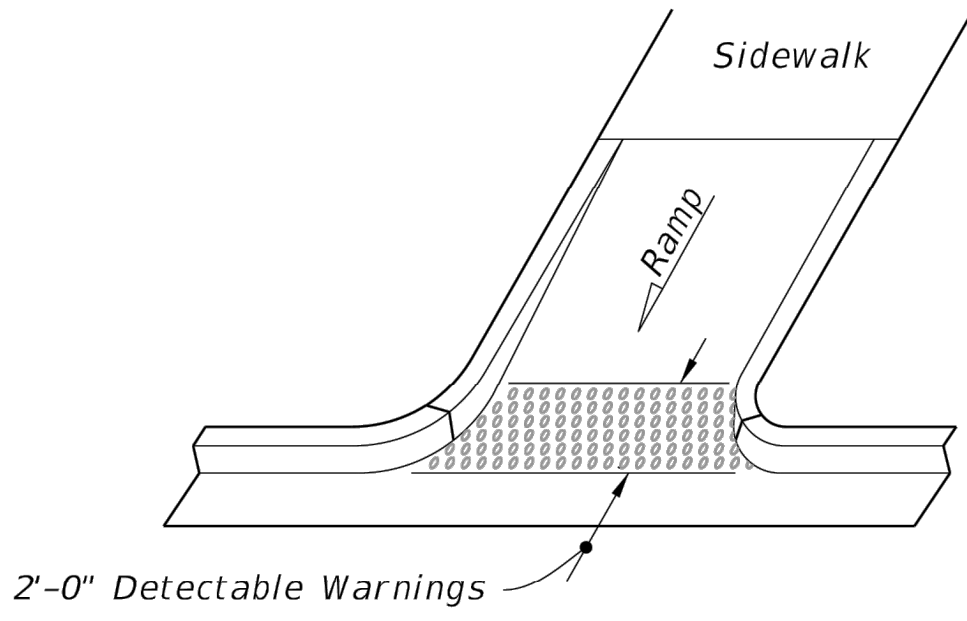


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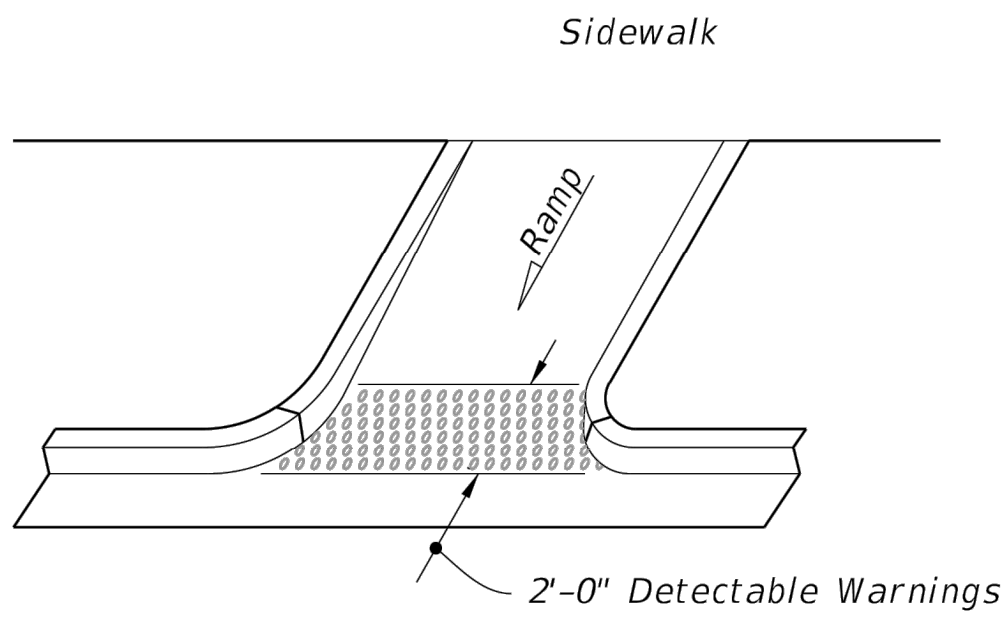


PLAN VIEW

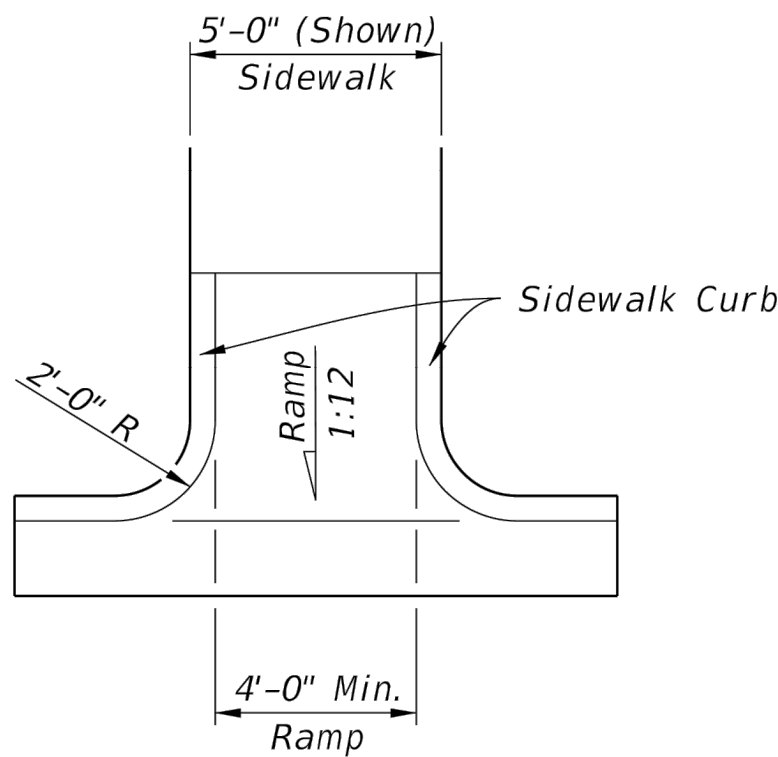
CR-D



OPTION A

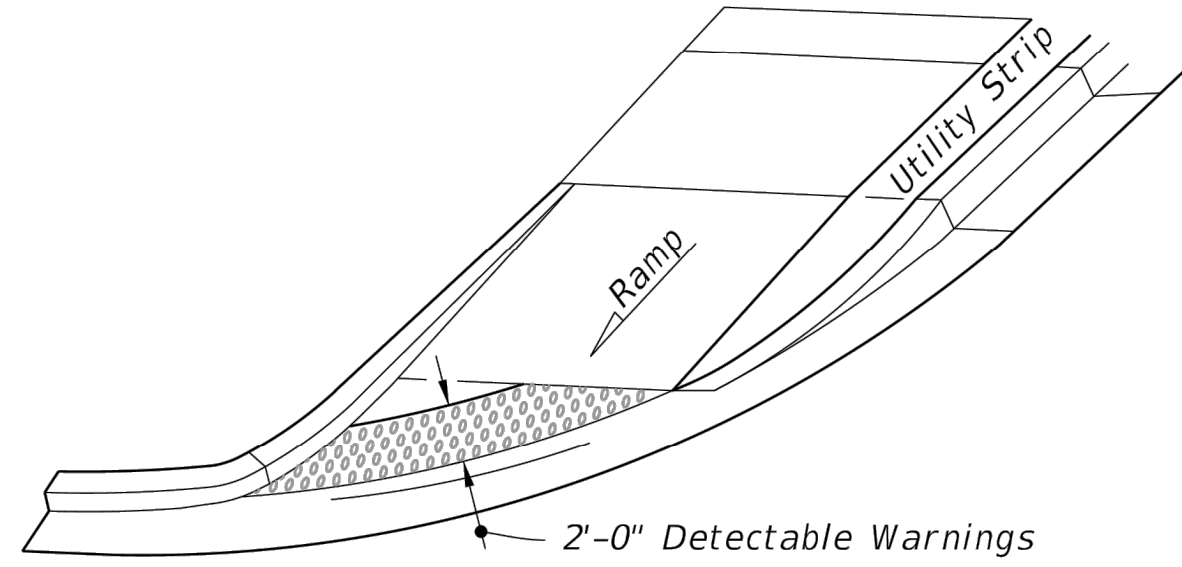


OPTION B  
ISOMETRIC VIEW

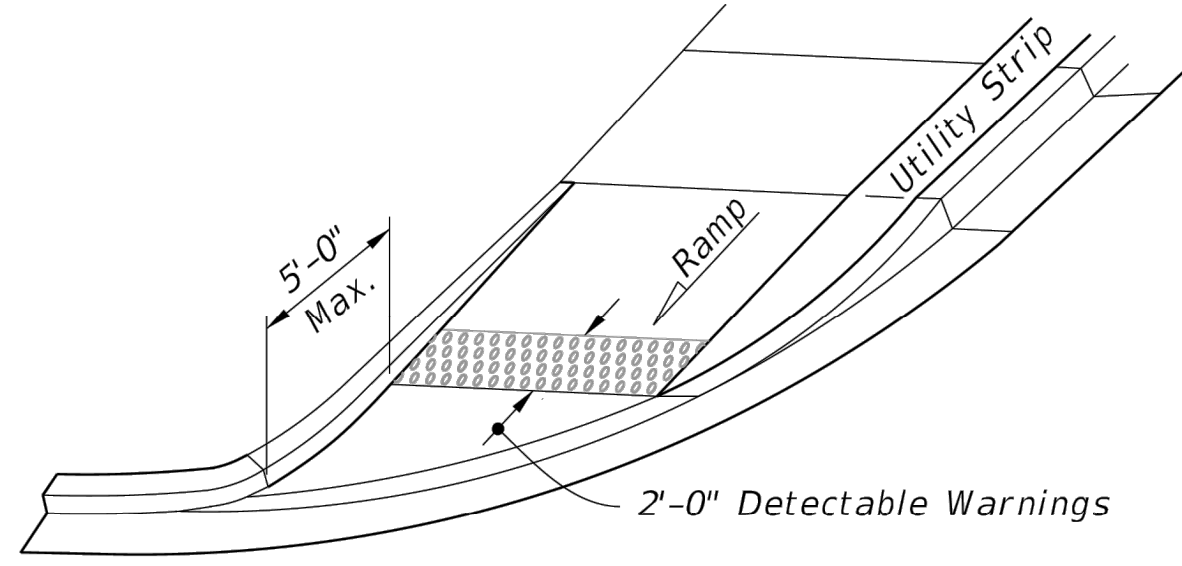


PLAN VIEW

CR-E

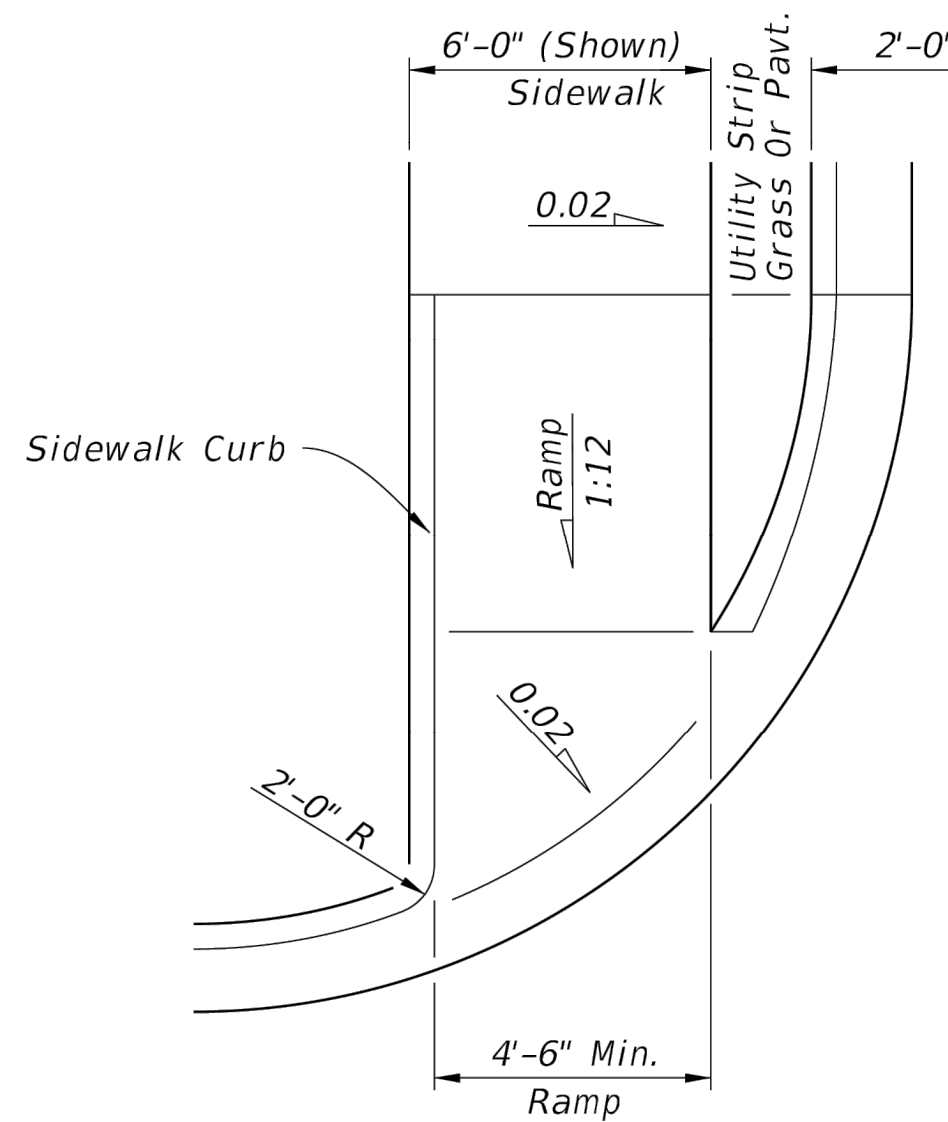


OPTION A



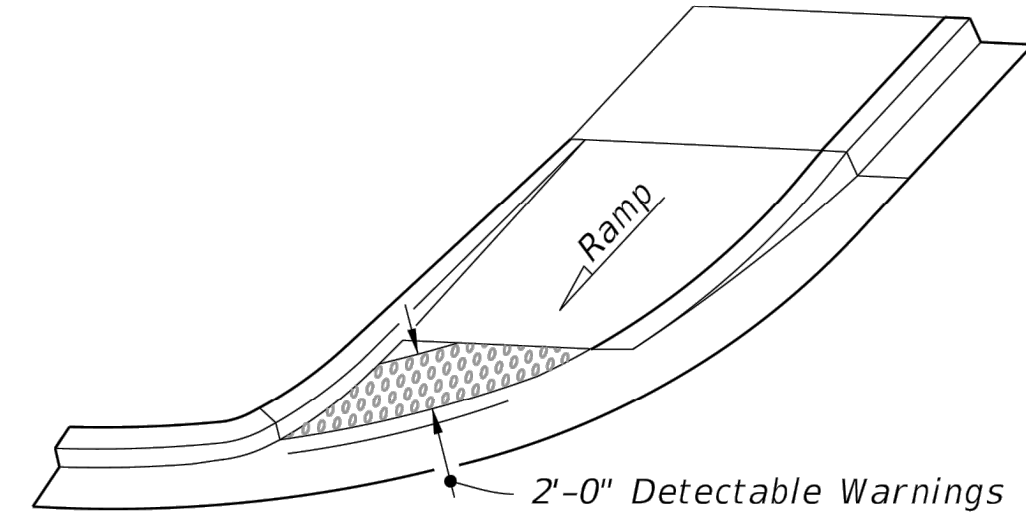
OPTION B

ISOMETRIC VIEW

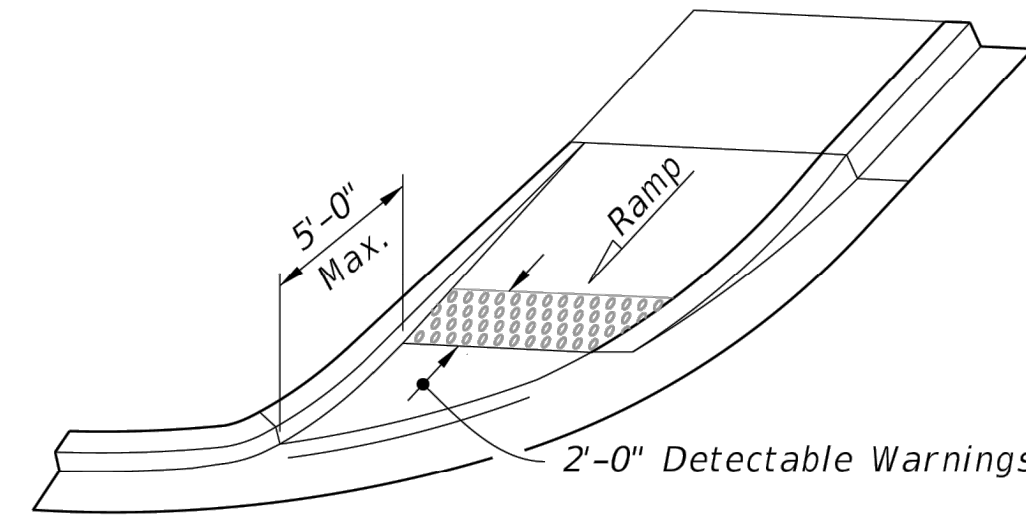


PLAN VIEW

CR-F

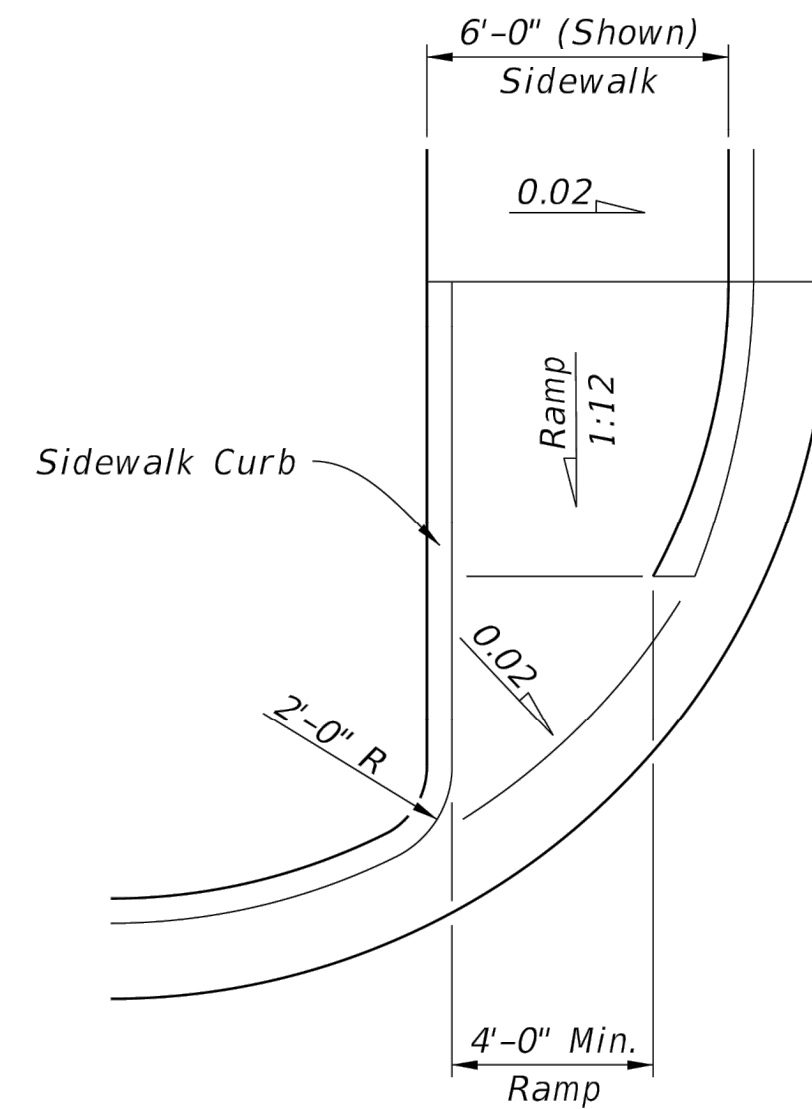


OPTION A



OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-G

SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

LAST  
REVISION  
11/01/21

REVISION

DESCRIPTION:



FY 2024-25  
STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

SHEET  
4 of 7

PAVING AND DRAINAGE DETAILS

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
9C

Trusted  
Advisors,  
Creating  
Community,  
ENGLAND-THIMS & MILLER

14775 Old St. Augustine Rd.  
Jacksonville, Florida 32258  
(904) 642-8990  
www.etmnc.com  
REG-00002584 LC-0000316

REVISIONS:

2025.02.19 - REV. PER AGENCY COMMENTS

2025.03.27 - REV. PER AGENCY COMMENTS

ETM NO. 23-128-01

DRAWN BY: KMF

DESIGNED BY: DDS

CHECKED BY: DDS

DATE: MARCH 2025

PLANS PREPARED UNDER  
THE DIRECTION OF:

DALLAS SCHRIER  
P.E. NUMBER: 94608

PLOTTED: March 27, 2025 - 4:38 PM, BY: Kevin Ferguson



JEA GENERAL NOTES:

1. ALL WATER, RECLAIMED WATER, AND SANITARY WASTEWATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL, ALL APPLICABLE LOCAL AND STATE REGULATORY RULES & REGULATIONS AND OTHER APPLICABLE JEA RULES.
2. ALL WATER, RECLAIMED WATER, AND WASTEWATER CONSTRUCTION SHALL BE PROVIDED BY A CONTRACTOR QUALIFIED, AS REQUIRED UNDER THE CURRENT FLORIDA STATUTE, OR BY AN UNDERGROUND UTILITY CONTRACTOR, LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FS.
3. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING CITY OR COUNTY RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY R/W, COUNTY R/W OR A FDOT PERMIT FOR WORK IN THE FDOT R/W.
4. THE APPLICANT SHALL CONTACT THE JEA, AND SCHEDULE A PRE-CONSTRUCTION MEETING, TO BE HELD PRIOR TO INITIATING THE JEA WATER AND WASTEWATER UTILITY WORK, INCLUDING ALL UTILITY MAIN TAPS BY THE CONTRACTOR.
5. JEA WATER AND WASTEWATER TAP FEES, JEA WATER AND SEWER CAPACITY FEES, AND JEA METER FEES SHALL BE PAID PRIOR TO THE WATER METER INSTALLATION. WATER METERS WILL NOT BE INSTALLED PRIOR TO THE ISSUANCE OF REQUIRED ACCEPTANCE (TRANSFER OF OWNERSHIP) DOCUMENTS, WHICH MAY INCLUDE THE ISSUANCE OF A REGULATORY CLEARANCE LETTER (OCC) FOR THE WATER AND WASTEWATER IMPROVEMENTS, COMPLETION, AND APPROVAL OF FINAL INSPECTION AND APPROVED AS-BUILT DRAWINGS.
6. FINAL CONNECTION TO THE JEA SYSTEM MAY BE CONTINGENT UPON THE CONSTRUCTION, DEDICATION, AND FINAL ACCEPTANCE (TRANSFER OF OWNERSHIP/MAINTENANCE) OF THE JEA OFF-SITE UTILITIES.
7. THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS FOR THE WATER, RECLAIMED WATER, AND WASTEWATER IMPROVEMENTS SHALL CONFORM TO THE LATEST JEA AND FDP RULES. THE MINIMUM HORIZONTAL SEPARATION REQUIREMENTS BETWEEN THE PROPOSED WATER AND WASTEWATER UTILITIES AND PONDS OR STRUCTURES SHALL CONFORM TO THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL.
8. WATER AND WASTEWATER PIPES LESS THAN 24-INCHES IN DIAMETER SHALL BE CONSTRUCTED WITH A MINIMUM 30-INCHES COVER IN UNPAVED OR SIDEWALK AREAS AND A MINIMUM OF 36-INCHES COVER IN PAVED AREAS. THE MAXIMUM COVER FOR UTILITIES, BOTH OPEN CUT AND UTILIZING HORIZONTAL DIRECTIONAL DRILL METHODS, SHALL COMPLY WITH THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL.
9. WATER AND WASTEWATER PRESSURE MAINS AND SERVICES SHALL PASS A JEA PRESSURE AND LEAKAGE TEST AT 150-PSI MINIMUM, OR TWO TIMES OPERATING PRESSURE, WHICHEVER IS GREATER, FOR 2-HOURS. IN ADDITION, WATER MAINS SHALL BE DISINFECTED AND PASS A BACTERIOLOGICAL ANALYSIS. ALL TESTS SHALL CONFORM TO JEA AND FDP RULES, REGULATIONS, AND AWWA C-651. THE JEA INSPECTOR SHALL BE NOTIFIED 72-HOURS (MIN) PRIOR TO PERFORMING THESE TESTS. NO FINAL CONNECTION(S) TO EXISTING POTABLE WATER MAINS SHALL BE MADE UNTIL THE NEW MAIN IS PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE.
10. IN THE AREAS WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK SHALL BE STOPPED AND THE PROPER REGULATORY AUTHORITIES NOTIFIED. A REVISED CONSTRUCTION PLAN SHALL BE APPROVED BY JEA AND FDP THAT COMPLIES WITH ALL REGULATORY RULES. THE REVISED CONSTRUCTION PLAN FOR THE JEA WATER MAIN SYSTEM, INCLUDING WATER SERVICE LINES, MAY INVOLVE GALVANIZED OR DUCTILE IRON PIPE WITH SPECIAL SOLVENT RESISTANT (FLUOROCARBON TYPE) GASKETS THAT EXTEND 100-FEET BEYOND THE CONTAMINATED AREAS.
11. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS TO EXISTING JEA WATER AND WASTEWATER CUSTOMERS. IF JEA APPROVES A SERVICE INTERRUPTION, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE AFFECTED CUSTOMERS IN ACCORDANCE WITH THE LATEST JEA RULES.
12. RESIDENTIAL SERVICES USING RECLAIMED WATER FOR IRRIGATION MUST HAVE A JEA APPROVED BACKFLOW PREVENTER INSTALLED ON EACH POTABLE WATER SERVICE PRIOR TO THE INSTALLATION OF A JEA RECLAIMED WATER METER. THE INSTALLATION OF A BACKFLOW PREVENTER SHALL BE IN ACCORDANCE WITH THE JEA RULES AND REGULATIONS FOR WATER, SEWER, AND RECLAIMED WATER SERVICES, APPENDIX B, CROSS CONNECTION CONTROL POLICY.
13. FOR DEVELOPMENTS UTILIZING RECLAIMED WATER, A JEA APPROVED RECLAIMED WATER SIGNAGE PLAN SHALL BE IMPLEMENTED PRIOR TO THE INSTALLATION OF THE RECLAIMED WATER METERS.
14. ALL BACKFLOW PREVENTERS SHALL BE IN ACCORDANCE WITH JEA CROSS CONNECTION PROGRAM. BACKFLOW PREVENTERS MUST BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER AND ANNUALLY THEREAFTER. JEA CONTACT: PERMITTING 904-665-7988.
15. BACKFLOW PREVENTERS ON FIRE LINES OR COMBINATION FIRE/POTABLE MAINS SHALL HAVE FREEZE PROTECTION.

STATE ROAD 200

**CVS pharmacy**

F.F.E. = 26.75'  
14,403 S.F.

BUILDING TO BE PROTECTED BY FIRE  
SPRINKLERS  
(SEE PLUMBING PLANS FOR CONTINUATION)

EXISTING 10'X15' JEA UTILITY  
EASEMENT TO BE  
ABANDONED.  
REUSE STUB TO BE DEMOED  
AND CAPPED AT PROPERTY  
LINE

FIRE LINE TO TERMINATED  
1' ABOVE FFE

CLEANOUT  
INV. EL. 21.75 (S)

33 L.F. ~ 6" PVC @ 1.04% (PRIVATE)

70 L.F. ~ 6" PVC @ 1.04% (PRIVATE)

CLEANOUT  
INV. EL. 20.63 (SE)

RAISE MANHOLE TOP  
PER PROPOSED  
GRADING PLAN

**INSET A**  
1" = 5'

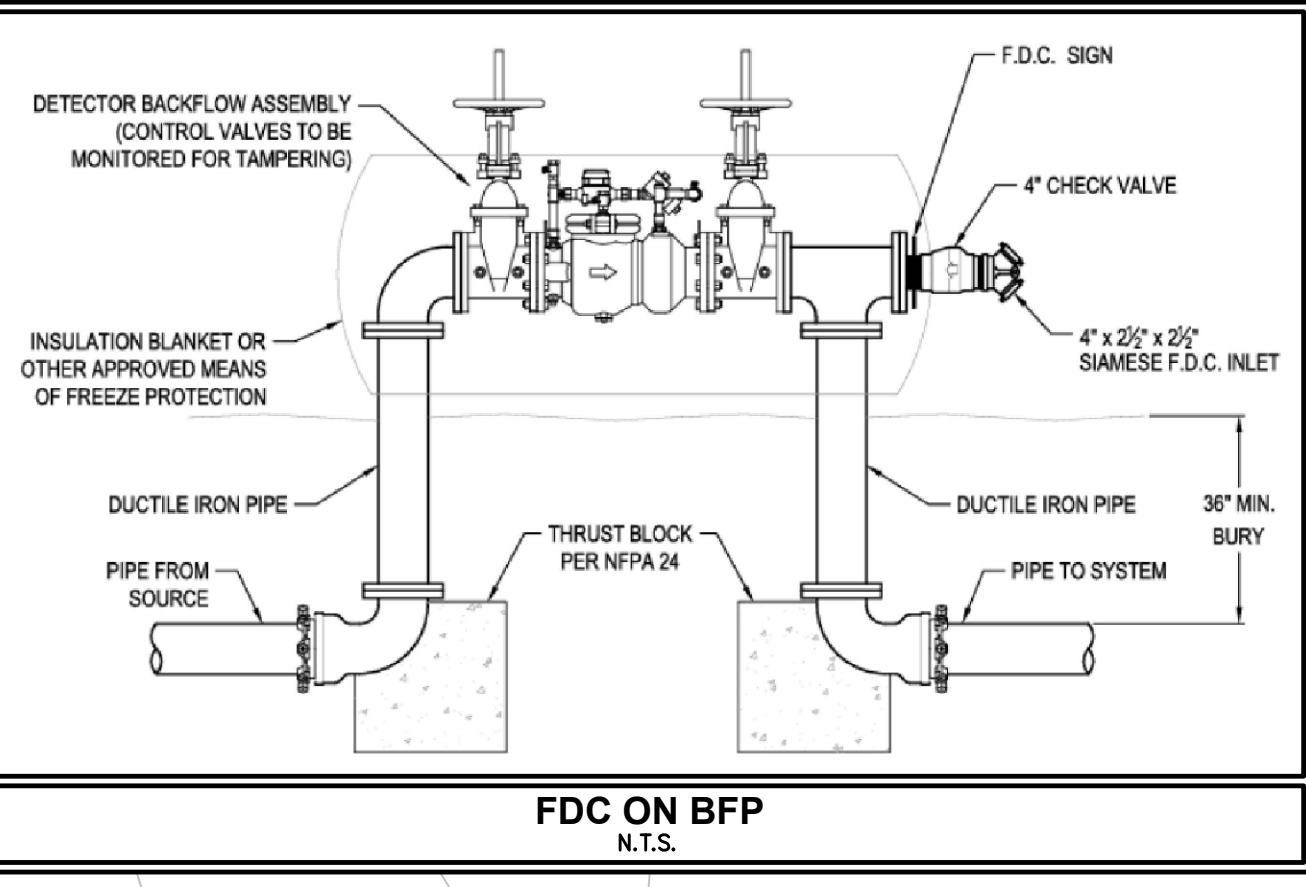
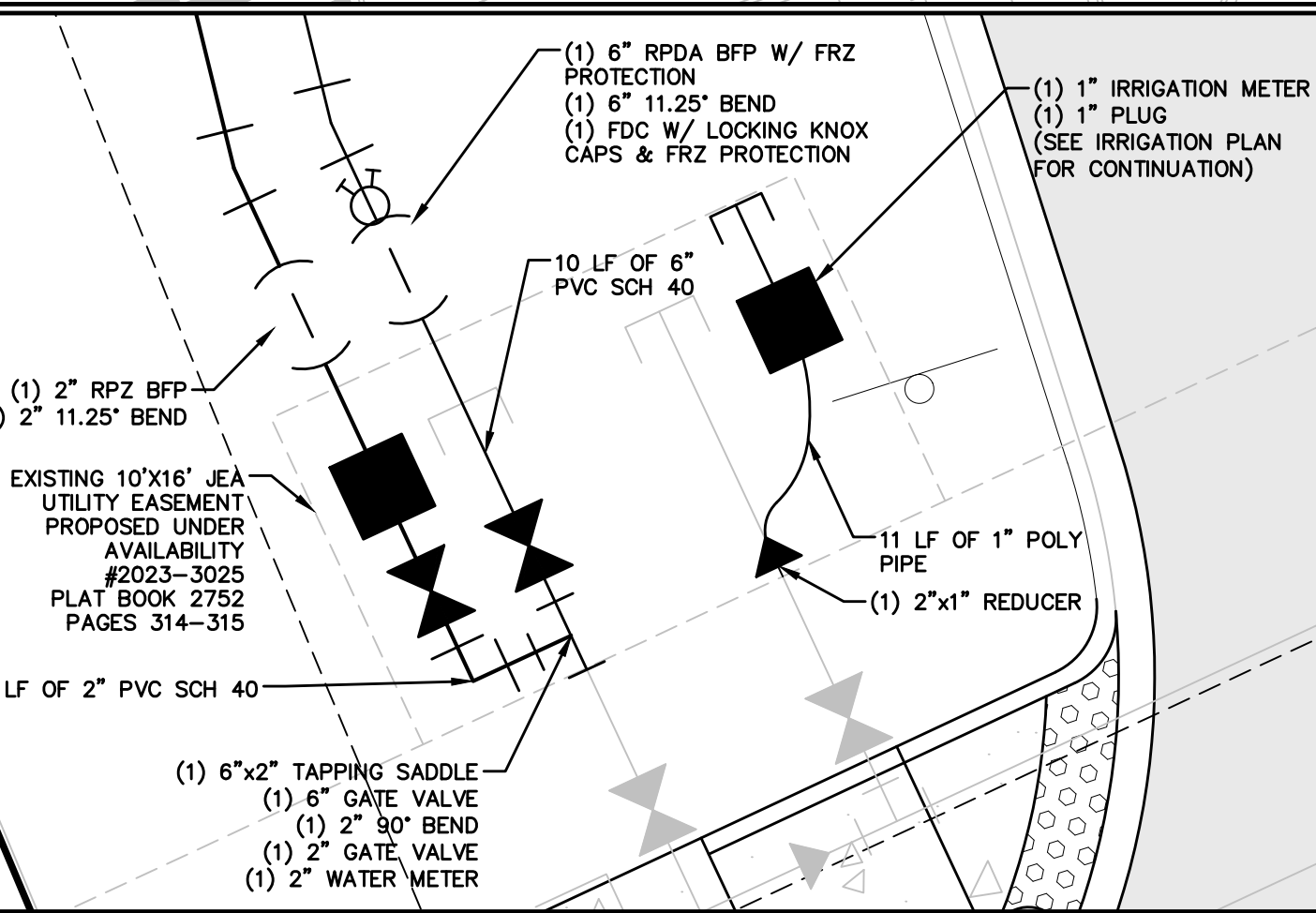
EXISTING 12" WATERMAIN  
PROPOSED UNDER  
AVAILABILITY  
#2023-3025  
PLAT BOOK 2752  
PAGES 314-315

EXISTING 8" REUSE  
STUB PROPOSED UNDER  
AVAILABILITY  
#2023-3025

EXISTING 10'X16'  
JEA UTILITY  
EASEMENT  
PROPOSED UNDER  
AVAILABILITY  
#2023-3025  
PLAT BOOK 2752  
PAGES 314-315

EXISTING 2" REUSE  
STUB PROPOSED  
UNDER AVAILABILITY  
#2023-3025 TO BE  
CUT BACK AND  
REDUCED TO 1"

EXISTING 6" WATERMAIN STUB  
PROPOSED UNDER  
AVAILABILITY  
#2023-3025



**CROSSING TYPE TABLE**

- |   |   |
|---|---|
| 1 | STORM OVER WATERMAIN<br>MIN. 1.0' CLEAR (TYPE "B" CROSSING) |
| 2 | STORM OVER FIREMAIN<br>MIN. 1.0' CLEAR (TYPE "B" CROSSING)  |
| 3 | STORM OVER SANITARY<br>MIN. 1.0' CLEAR                      |

**LEGEND**

- |  |                             |
|--|-----------------------------|
|  | ASPHALT PAVEMENT            |
|  | HEAVY DUTY ASPHALT PAVEMENT |
|  | CONCRETE PAVEMENT           |
|  | CONCRETE SIDEWALK           |
|  | ABANDON EASEMENT            |

**GENERAL NOTES:**

1. REFER TO DRAWING NO. 3 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL REFER TO SITE PLAN FOR ALL DIMENSIONS AND SHALL NOT SCALE PLAN.
3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
4. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE AND GROUND ELEVATION).
5. PER FDP REQUIREMENTS, CONTRACTOR SHALL MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN CROSSINGS WITH REUSE MAINS, FORCE MAINS, SANITARY OR STORM SEWER EXCEPT WHERE DESIGN CONSTRAINTS EXIST AND THE MINIMUM 6" SEPARATION FOR WATER MAINS OVER STORM MAY BE ALLOWED. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS AND SEPARATIONS). CONTRACTOR SHALL MAINTAIN 3" MINIMUM SEPARATION BETWEEN DRAINAGE AND REUSE FROM WATER MAINS. ALL DISTANCES MEASURES FROM OUTSIDE OF PIPE.
6. REFER TO FIRE PROTECTION PLANS (BY OTHERS) FOR ALL DETAILS/DESIGN ASSOCIATED WITH BUILDING FIRE PROTECTION SYSTEM.
7. FIRE HYDRANTS SHALL BE LOCATED FROM 3' TO 10' OFF OF BACK OF CURB, LARGE DIAMETER OUTLET TO FACE ROADWAY.
8. FIRE HYDRANTS SHALL HAVE A MINIMUM CLEARANCE OF 7.5' IN FRONT AND 4' ON SIDES AND REAR.
9. ALL FIRE HYDRANTS ARE PUBLICLY OWNED UNLESS OTHERWISE NOTED AND SHALL BE PAINTED YELLOW. ALL PRIVATELY OWNED FIRE HYDRANTS SHALL BE PAINTED RED.
10. ALL STORMWATER/POTABLE WATER CROSSINGS SHALL BE CASE A OR CASE B (SEE DETAILS SHEET) UTILIZING MECHANICAL RESTRAINTS.
11. ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUT OF PAVED AREAS, CURBS & SIDEWALKS UNLESS ACTUAL FIELD CONDITIONS PREVENT. ADDITIONAL FITTINGS SHALL BE INSTALLED ON WATER SYSTEM AS REQUIRED TO MEET MINIMUM SEPARATION REQUIREMENTS.
12. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH JEA STANDARDS AND SPECIFICATIONS, LATEST EDITION.
13. SANITARY CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING RATED AND FLUSH WITH PAVEMENT.
14. CONTRACTOR TO COORDINATE WITH BUILDING PLUMBER PRIOR TO MAKING ALL UTILITY CONNECTIONS.
15. REFER TO ARCHITECTURAL/MEP PLANS FOR ALL BUILDING AND PLUMBING DETAILS.
16. CONTRACTOR TO COORDINATE WITH JEA FOR ALL/ANY UTILITY SHUTDOWNS DURING CONSTRUCTION.
17. WATERMAIN TAP AND METER TO PAID FOR BY CONTRACTOR AND INSTALLED BY JEA.
18. UNDERGROUND DRY UTILITIES (ELECTRICAL, TELEPHONE, ETC.) ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL PLANS FOR DESIGN INFORMATION.
19. ALL EXPOSED FIRE COMPONENTS, FDC, BACKFLOW PREVENTERS, EXTERIOR FIRE RISERS, ETC. SHALL BE FREEZE PROTECTED WITH INSULATION.

WATER AND SEWER PLAN

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER

10

ETW NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

1411 Edgewater Drive, Ste. 200  
Orlando, Florida 32804  
(407) 536-5379  
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REG-00002864 LC-0000316

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**ETM**  
ENGLAND-THIMS & MILLER

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DALLAS SCHRIER  
P.E. NUMBER:  
94608

PLOTTED: March 27, 2025 — 4:38 PM BY: Kevin Ferguson

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NOT APPLICABLE

APPLICABLE

### SURVEY AND LOCATE DATA:

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1.

ALL ELEVATIONS ARE BASED ON U.S.C.&G.S. DATUM AND SHOWN IN FEET.

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2.

ELEVATIONS ARE BASED ON NAVD88.

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3.

LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.

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4.

EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES AND SUBDIVISION AS-BUILT PLANS.

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5.

UNDERGROUND UTILITIES WERE LOCATED UTILIZING GROUND PENETRATING RADAR (GPR) AND A DIGITAL LOCATOR. CONTRACTOR SHALL BE AWARE THAT IN SOME CASES UTILITIES HAVE BEEN LOCATED, AND SURVEY HAS BEEN COMPLETED ONLY ON ONE SIDE OF THE ROAD.

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6.

ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF MANHOLES, CATCH BASINS, INLETS ETC. OR ALONG THE CENTER LINE OF FORCE MAINS AND WATER MAINS.

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7.

INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF MANHOLES, UNLESS OTHERWISE INDICATED.

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8.

THE LOCATION OF ALL EXISTING SEWER AND WATER SERVICE LINES MAY NOT BE INDICATED ON THESE PLANS. THE LOCATION OF NEW SERVICES SHALL BE VERIFIED IN THE FIELD.

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9.

BENCHMARK DATA: NAVD88

### PERMIT REQUIREMENTS (NOT ALL INCLUSIVE):

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1.

CONTRACTOR TO OBTAIN ALL REQUIRED RIGHT-OF-WAY PERMITS.

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2.

CONTRACTOR SHALL NOT OPEN CUT STREETS IN THE PROJECT AREA UNLESS SPECIFICALLY SHOWN ON PLANS

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3.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSUMPTIVE USE PERMIT (C.U.P.) THROUGH THE ST. JOHNS WATER MANAGEMENT DISTRICT SHOULD DEWATERING ACTIVITIES BE REQUIRED.

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4.

THE DEPARTMENT OF TRANSPORTATION, RAILROAD COMPANIES AND C.O.J. ARE TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION PER THEIR RESPECTIVE PERMIT CONDITIONS.

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5.

ALL WORK SHALL BE IN ACCORDANCE WITH BID DOCUMENTS, JEA WATER AND SEWER STANDARDS, DETAILS AND MATERIALS MANUAL, REV. 2018, AND CITY OF JACKSONVILLE STANDARD SPECIFICATIONS AND DETAILS AND ALL APPLICABLE STATE AND LOCAL REGULATIONS.

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6.

IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.

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7.

THE CONTRACTOR SHALL NOTIFY APPLICABLE UTILITY CONTACT PERSONNEL NOT LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF FACILITIES IN THEIR RESPECTIVE AREAS.

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8.

TREE PROTECTION SHALL BE IN ACCORDANCE WITH JACKSONVILLE ORDINANCE CODE 656 AND/OR AS DETAILED ON SPECIFIC PLAN SHEETS. NO TRIMMING OF OVERHANGING TREE LIMBS WILL BE ALLOWED. USE SMALLER EQUIPMENT IF NECESSARY.

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9.

THE CONTRACTOR SHALL LOCATE THE DRAINAGE INLET STRUCTURES IN THE PROJECT AREA AND ERECT SEDIMENTATION CONTROL DEVICES AS NECESSARY PER THE CITY OF JACKSONVILLE STORMWATER POLLUTION PREVENTION PLAN.

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10.

CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITIES DURING CONSTRUCTION.

### EXISTING UTILITY PROTECTION:

1.

IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY DAMAGES OCCURRING IN THE DUVAL COUNTY RIGHT-OF-WAY AND EASEMENTS, THE CONTRACTOR SHALL PREVENT DAMAGES TO EXISTING UTILITIES CAUSED BY HIS WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES. IN THE CASE OF OPEN EXCAVATION, VERIFICATION MAY BE PERFORMED DURING THE CONTRACTORS WORK. IN THE CASE OF DIRECTIONAL DRILLING, VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION OF THE DRILLING EQUIPMENT.

2.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AS NEEDED TO AVOID CONTACT. EXISTING UTILITIES SHALL BE EXPOSED USING DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS. SUCH METHODS MAY INCLUDE BUT SHALL NOT BE LIMITED TO "SOFT DIG" EQUIPMENT AND GROUND PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELD LIABLE FOR DAMAGES CAUSED TO THE CITY'S/JEA'S INFRASTRUCTURE AND THE EXISTING FACILITIES OF OTHER UTILITY COMPANIES.

3.

IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

### RESTORATION NOTES:

1.

THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION, KNOWN CORNER LOCATIONS ARE AVAILABLE FROM THE CITY OF JACKSONVILLE ENGINEERING DIVISION.

2.

THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS, HEADWALLS AND STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION.

3.

TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH CITY OF JACKSONVILLE/FDOT STANDARD SPECIFICATIONS.

4.

SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH JACKSONVILLE STANDARD SPECIFICATIONS. SIDEWALKS REMOVED AND REPLACED IN CURB AND GUTTER AREAS AT INTERSECTIONS SHALL HAVE HANDICAP RAMPS INSTALLED. DRIVEWAYS AND SIDEWALKS SHALL BE SAWCUT ALONG THE RIGHT-OF-WAY LINE OR NEAREST JOINT AND REMOVED AND REPLACED TO THE EDGE OF STREET.

5.

GRASS SOD SHALL BE FURNISHED AND PLACED IN THE AREAS DISTURBED OR DAMAGED BY THE CONSTRUCTION OPERATION.

6.

ALL PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE CITY OF JACKSONVILLE/FDOT STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.

7.

UNLESS OTHERWISE NOTED, REMOVE AND REPLACE EXISTING PAVEMENT AS PER C.O.J. CASE X (10) PAVEMENT REPLACEMENT DETAIL.

8.

CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADED AREAS AND REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCURRED.

### UTILITY CONTACTS:

A. AT&T ~ GENERAL NUMBER-----904-519-2529

B. AT&T ~ ADAM DUGAN ~ NORTH DISTRICT-----904-781-0741

C. AT&T ~ BILL LAKE ~ SOUTH DISTRICT-----904-303-8754

D. CITY OF JACKSONVILLE ~ PUBLIC WORKS DEPT.-----904-255-8786

E. CITY OF JACKSONVILLE ~ TRAFFIC ENGINEERING-----904-255-7528

F. FLORIDA DEPT. OF TRANSPORTATION-----904-360-5200

G. JEA ~ WATER COLLECTION & DISTRIBUTION ~ BOB ALLSBROOK-----904-665-7299

H. JEA ~ SEWER COLLECTION & DISTRIBUTION ~ NATE ROUSE-----904-665-8183

I. JEA ~ GENERAL INFORMATION-----904-665-6000

J. JEA ~ PROJECT OUTREACH-----904-665-7500

K. JEA ~ POWER OUTAGES-----904-665-6000

L. JEA ~ SEWER PROBLEMS-----904-665-4802

M. JEA ~ WATER PROBLEMS-----904-665-4801

N. JEA ~ WATER & SEWER LOCATES-----904-665-8410

O. NASSAU COUNTY ~ PUBLIC WORKS ~ CHARLES HOUSTON-----904-491-7334

P. ST. JOHNS COUNTY ~ RIGHT-OF-WAY PERMITTING ~ RICK MAULDIN-----904-209-0134

Q. ST. JOHNS COUNTY ~ TRAFFIC SIGNALS ~ HANK MEIN-----904-209-0173

R. COMCAST ~ EMERGENCY HOTLINE-----904-380-6274

S. TECO/PEOPLES GAS ~ BEN MOBLEY-----904-545-8958

T. SUNSHINE ONE CALL-----811

NOT APPLICABLE

APPLICABLE

### INSTALLATION NOTES:

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1.

CONTRACTOR TO REHABILITATE ALL MANHOLES ON PIPE BURST SEWERS VIA COATING/LINING PER JEA SPECIFICATION 446-2, UNLESS OTHERWISE NOTED ON THE PLANS.

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2.

CONTRACTOR TO RENEW, REHABILITATE, REPLACE OR REINSTALL AS APPLICABLE ALL SERVICE LATERALS TO R.O.W. LINE.

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3.

CONTRACTOR TO INSTALL SEWER SERVICE PIPING A MINIMUM OF 60 INCHES BELOW GRADE. WHERE NEW SANITARY SEWER MAIN IS LESS THAN 5 FEET DEEP, THE SEWER SERVICE PIPE SHALL BE INSTALLED AS DEEP AS POSSIBLE.

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4.

WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE TRENCH DEPTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH JEA ELECTRICAL PERSONNEL TO SECURE POWER POLES. THE CONTACTS FOR JEA ARE AS FOLLOWS:  
NORTHSIDE~EAST of US-1 MIKE CORBITT @ 665-7991 (mobile 662-0635)  
NORTHSIDE~WEST of US-1 ANDY YEAGER @ 665-7998 (mobile 662-0622)  
NORTHSIDE~BACKUP ALAN AINSLEY @ 665-7303 (mobile 662-6557)  
SOUTHSIDE~SOUTH of BEACH BLVD. TOM KERNS @ 665-6847 (mobile 860-1687)  
SOUTHSIDE~NORTH of BEACH BLVD. DERYL BASFORD @ 665-6855 (mobile 662-0616)  
SOUTHSIDE~BACKUP EDDIE GALES @ 665-6855 (mobile 662-0616)  
A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED FOR AN OUTSIDE MEETING WITH JEA ELECTRICAL TO DISCUSS THE REQUIRED WORK. ADDITIONAL TIME WILL BE REQUIRED BY JEA ELECTRICAL FOR ANY REQUIRED WORK TO BE ACCOMPLISHED.

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5.

ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.

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6.

THE DESIGN FOR THE PROJECT IS BASED UPON THE "OPEN-CUT" METHOD OF CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD.

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7.

THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.

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8.

CONTRACTOR SHALL PROVIDE ADDITIONAL CORPORATION STOPS FOR FILLING AND DRAINING PURPOSES DURING CONSTRUCTION AS NEEDED. CORPORATION STOPS ARE TO BE PLUGGED AND LEFT IN PLACE. INDICATE CORPORATION STOP LOCATIONS ON RECORD DRAWINGS (AS-BUILTS).

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9.

WATER AND SEWER SERVICES SHALL BE TRANSFERRED TO THE NEW MAIN UPON COMPLETION AND F.D.E.P./J.E.A. CERTIFICATION, AND PRIOR TO THE EXISTING MAINS BEING ABANDONED.

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10.

IF EXISTING VALVES ARE IN UNPAVED AREAS AND ARE TO BE TAKEN OUT OF SERVICE, THEY SHALL BE CLOSED AND THE VALVE BOX AND COVER SHALL BE REMOVED. IF THE VALVES ARE UNDER PAVED AREAS, THEY SHALL BE CLOSED, THE VALVE BOX GROUT FILLED AND THE COVER REMOVED.

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11.

CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.

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12.

CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE SELECTION PER JEA STANDARDS.

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13.

WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION, CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.

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14.

PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED.

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15.

SHEET PILING WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.

Trusted  
Advisors,  
Creating  
Community.

ETM

ENGLAND-THIMS & MILLER

THESE DETAILS AS SHOWN ON THIS  
DRAWING ARE BY THE J.E.A. WE TAKE  
NO EXCEPTION TO THE DESIGN

DESIGNER:  
DRAWN BY:  
DATE:  
CHECKED BY:  
DATE:

DESIGN ENGINEER  
DALLAS SCHRIER  
FLORIDA REGISTRATION NO.  
94608

JEA  
Building Community<sup>SM</sup>

JEA STANDARD  
GENERAL NOTES LEGEND, AND SHEET INDEX  
CVS AT WILDLIGHT

PROJ. NO. 23-128-01  
DATE: JANUARY 2017  
SCALE: AS NOTED

NO. SHEETS 1  
SHEET NO. 1  
DRAWING NO. 11A

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I:\2023\23-128\23-128-01\LandDev\Design\Plots\JEA-2024-Water-Reuse-23-128.dwg      Current Layout Tab = JEA WTR01      Thu Mar 27, 2025      - 16:38

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY												
CONFLICTING UTILITY	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (SIGNS, POLES, ETC.)	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

- NOTES:
- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
  - THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
  - DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
  - NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
  - WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
  - REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.

SEPARATION REQUIREMENTS FOR  
WATER, WASTEWATER AND RECLAIMED WATER MAINS

JANUARY 2024

PLATE W-10

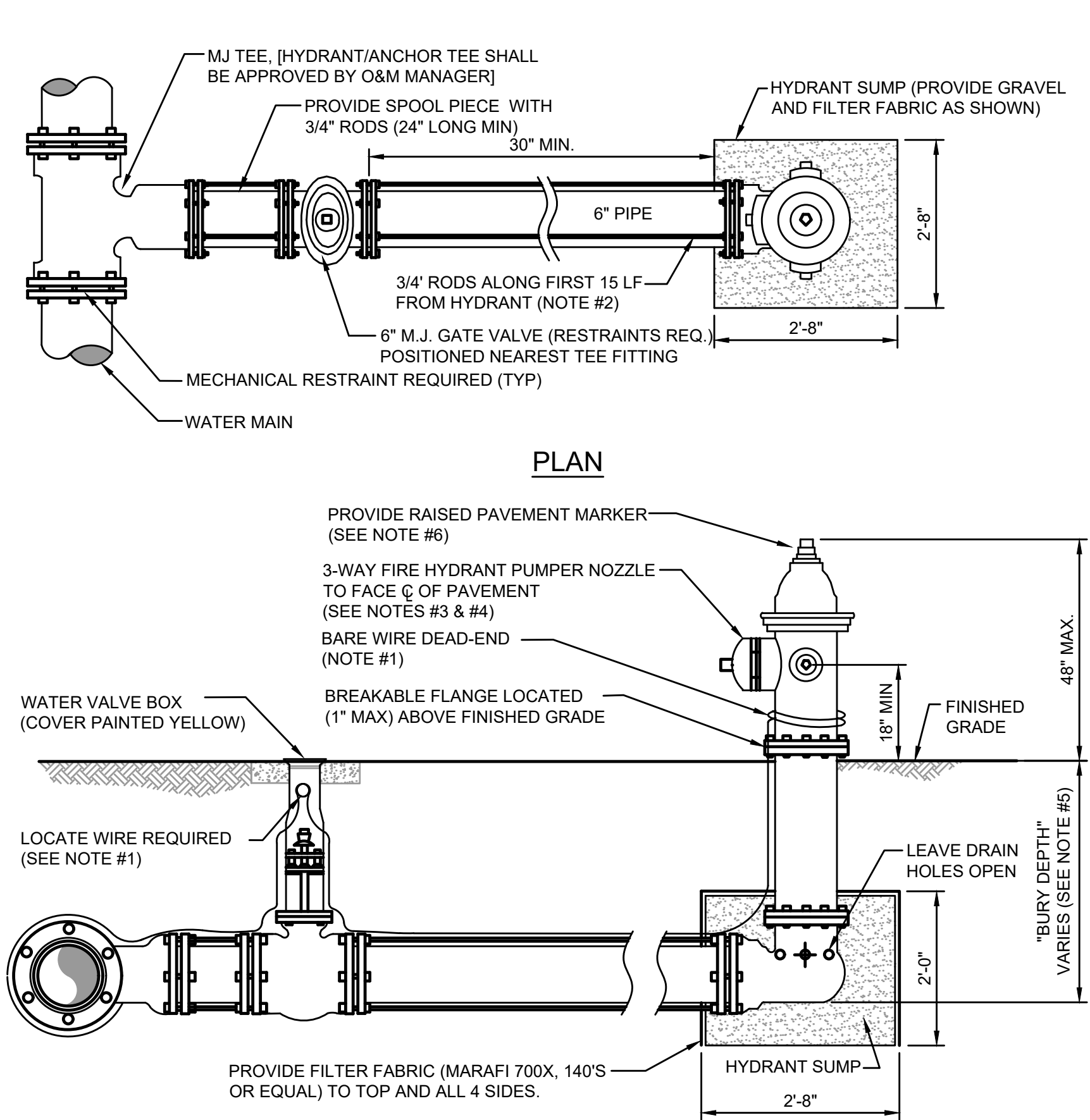
WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

- IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS, AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLY TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
- NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
- WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

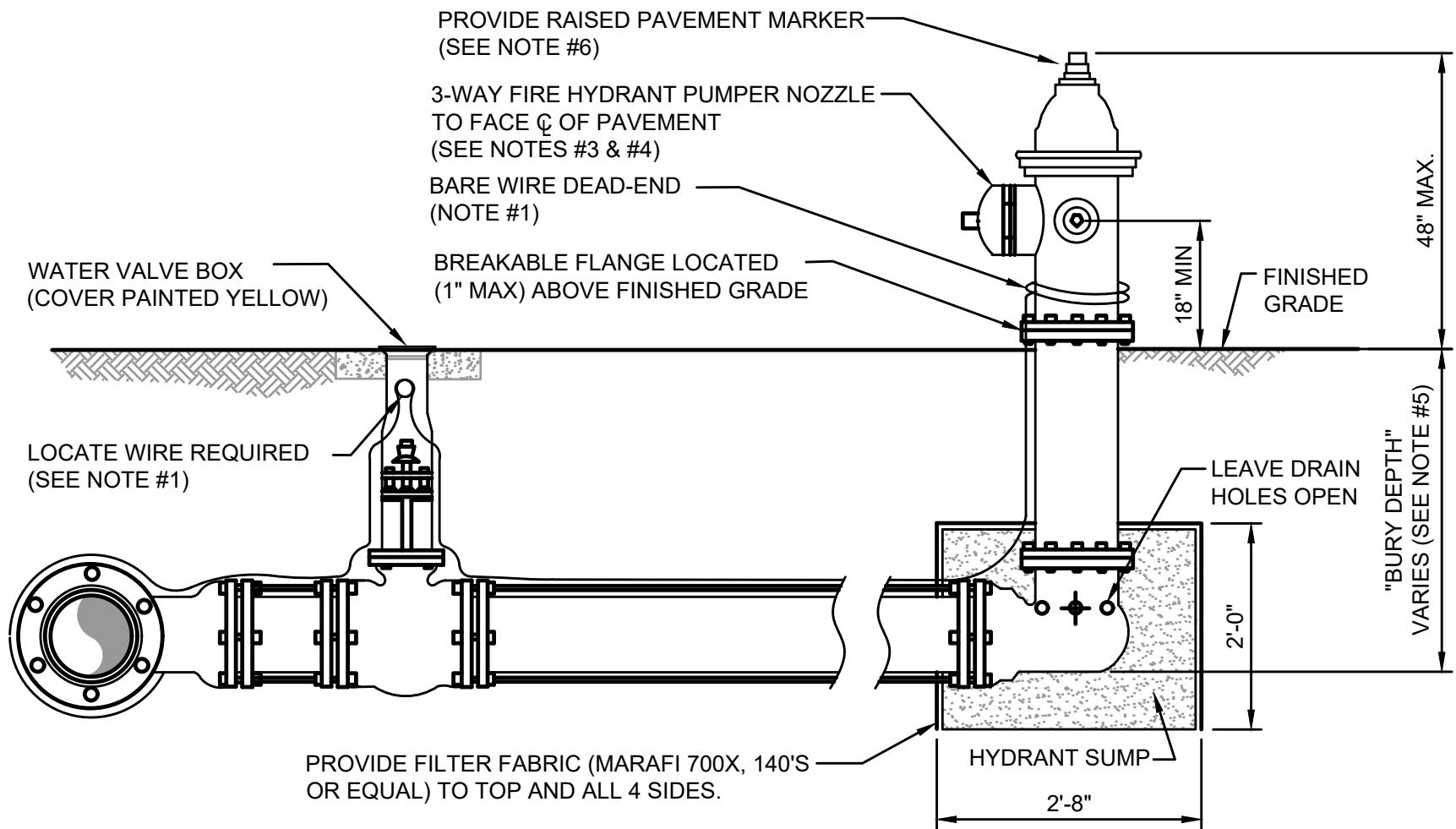
NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2024

PLATE W-11



PLAN



SECTION

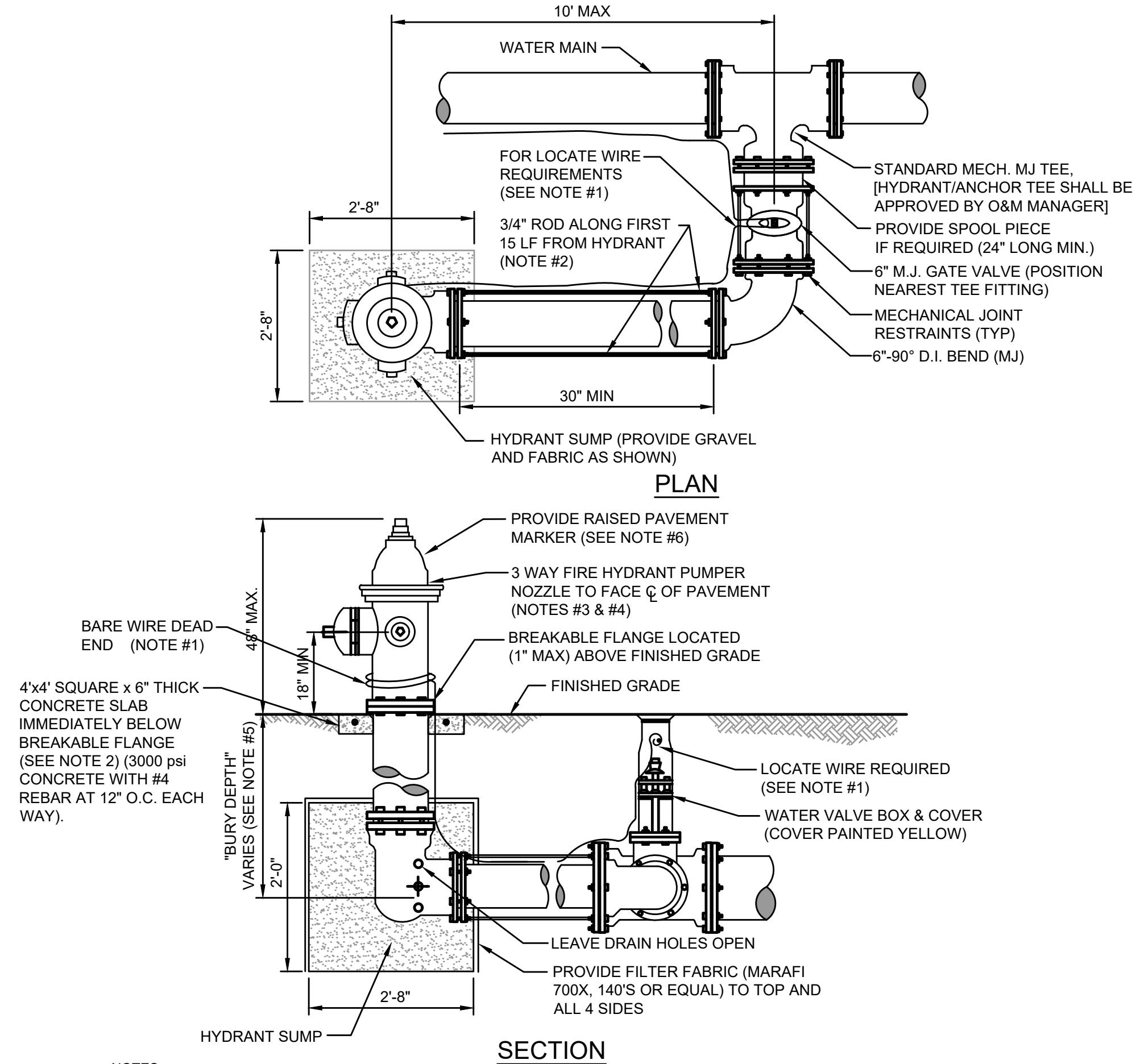
NOTES:

- LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
- FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E. THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
- NO WATER MAIN BRANCHES OR SERVICE TAPS SHALL BE ALLOWED ALONG THE HYDRANT BRANCH MAIN, UNLESS APPROVED BY JEA.
- OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
- PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
- FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
- BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

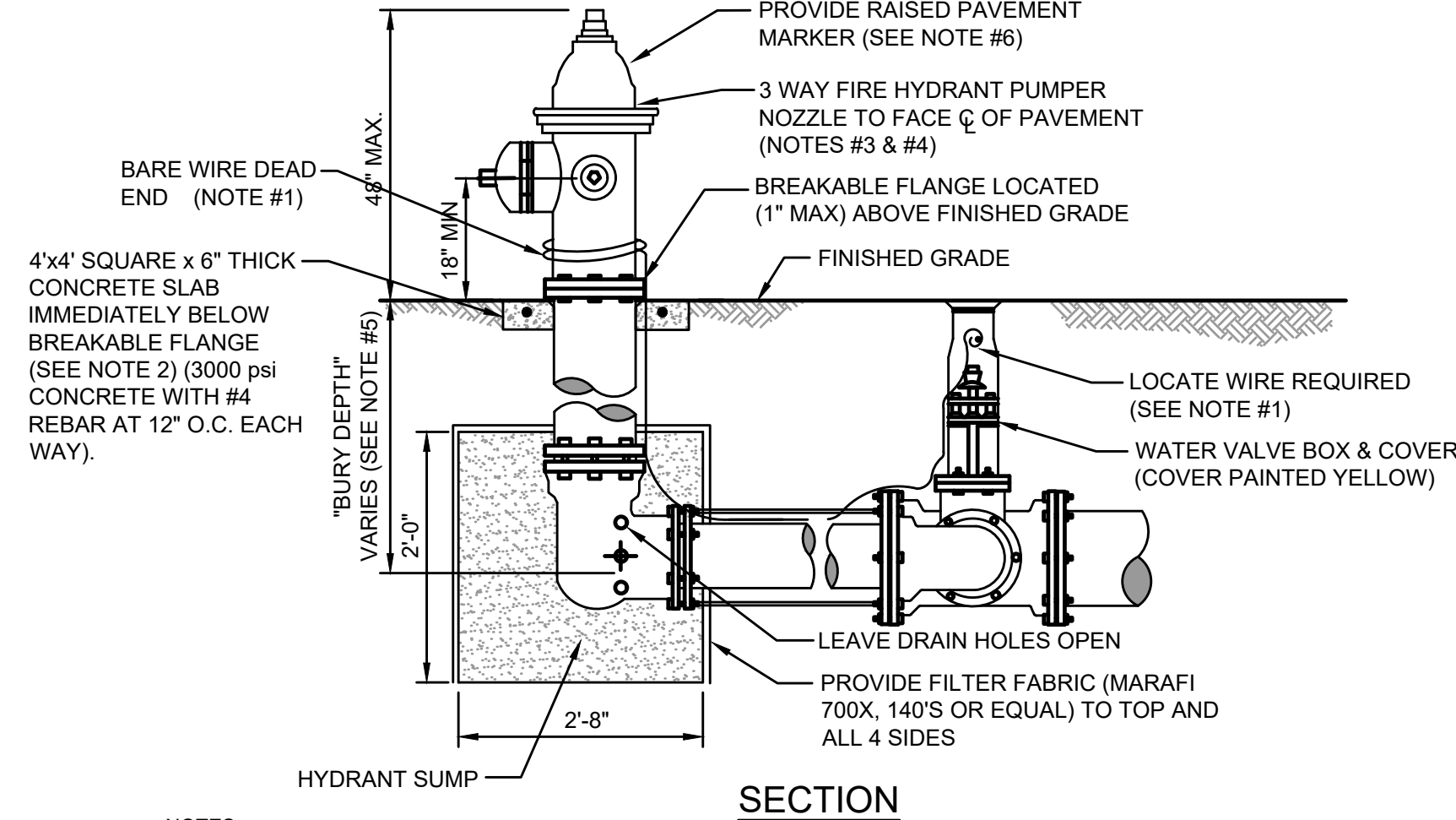
FIRE HYDRANT INSTALLATION  
USING MECHANICAL JOINT TEE

JANUARY 2024

PLATE W-13



PLAN



SECTION

NOTES:

- LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
- FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK. ALL HYDRANTS SHALL BE LOCATED NO LESS THAN THREE (3) FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB OF THE ADJACENT ROADWAY AND NO LESS THAN THREE (3) FEET FROM ANY PHYSICAL FEATURE WHICH MAY OBSTRUCT ACCESS OR VIEW OF ANY HYDRANT UNLESS OTHERWISE APPROVED BY THE JEA. THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
- NO WATER MAIN BRANCHES OR SERVICE TAPS SHALL BE ALLOWED ALONG THE HYDRANT BRANCH MAIN, UNLESS APPROVED BY JEA.
- OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
- PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
- FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
- BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION LIMITED SPACE

JANUARY 2024

PLATE W-14

Trusted  
Advisors,  
Creating  
Community.

**ETM**  
ENGLAND-THIMS & MILLER

THESE DETAILS AS SHOWN ON THIS  
DRAWING ARE BY THE J.E.A. WE TAKE  
NO EXCEPTION TO THE DESIGN

DESIGNER:  
DESIGNED BY:  
DATE:  
CHECKED BY:  
DATE:

DESIGN ENGINEER:  
DALLAS SCHRIER  
FLORIDA REGISTRATION NO.  
94608

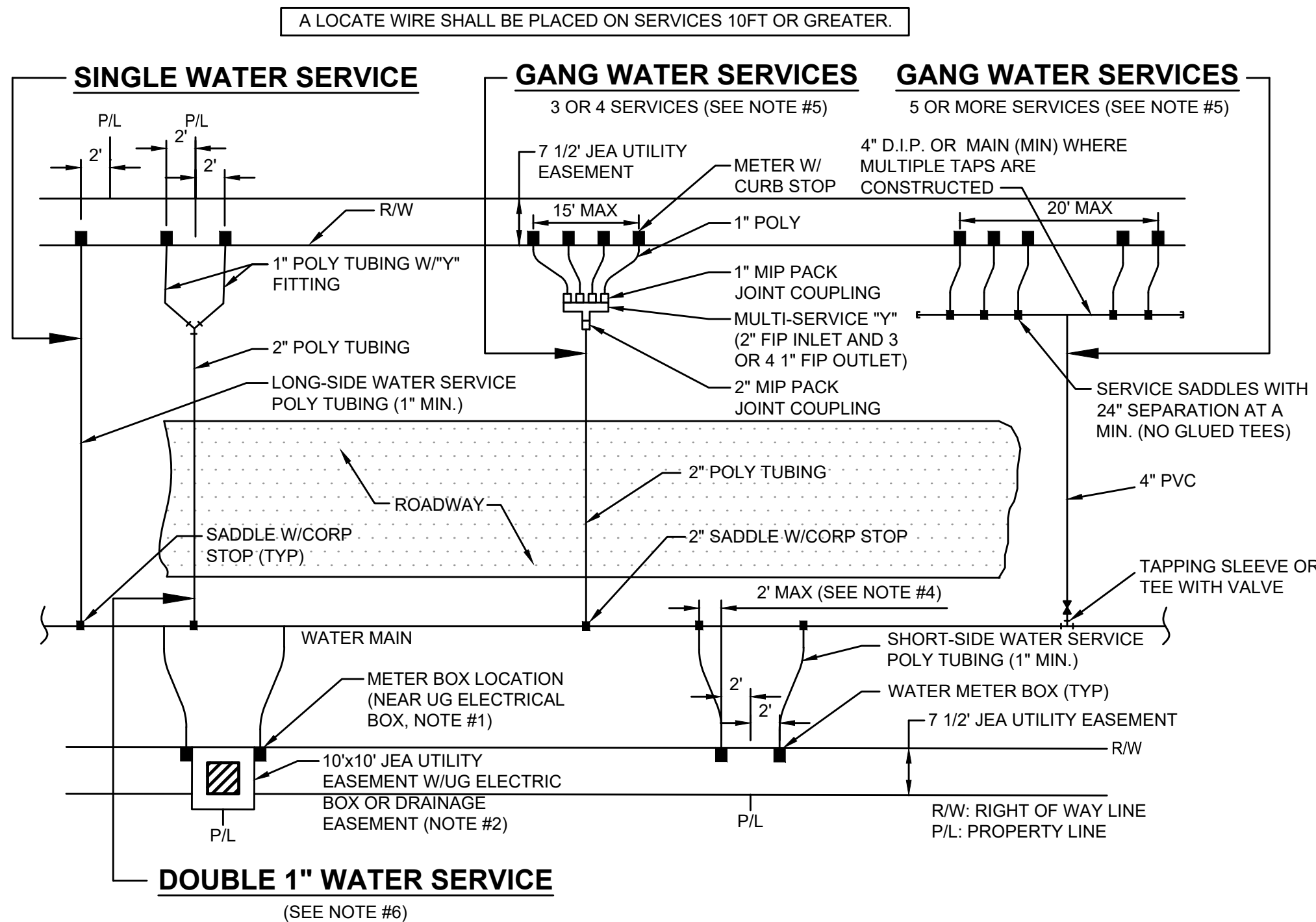
JEA STANDARD  
WATER AND RECLAIMED DETAILS  
CVS AT WILDLIGHT

PROJ. NO.: 23-128-01  
DATE: JANUARY 2024  
SCALE: AS NOTED

NO. SHEETS: 5  
SHEET NO.: 1  
DRAWING NO.: 11B

REVISIONS  
NO. BY DATE  
4.  
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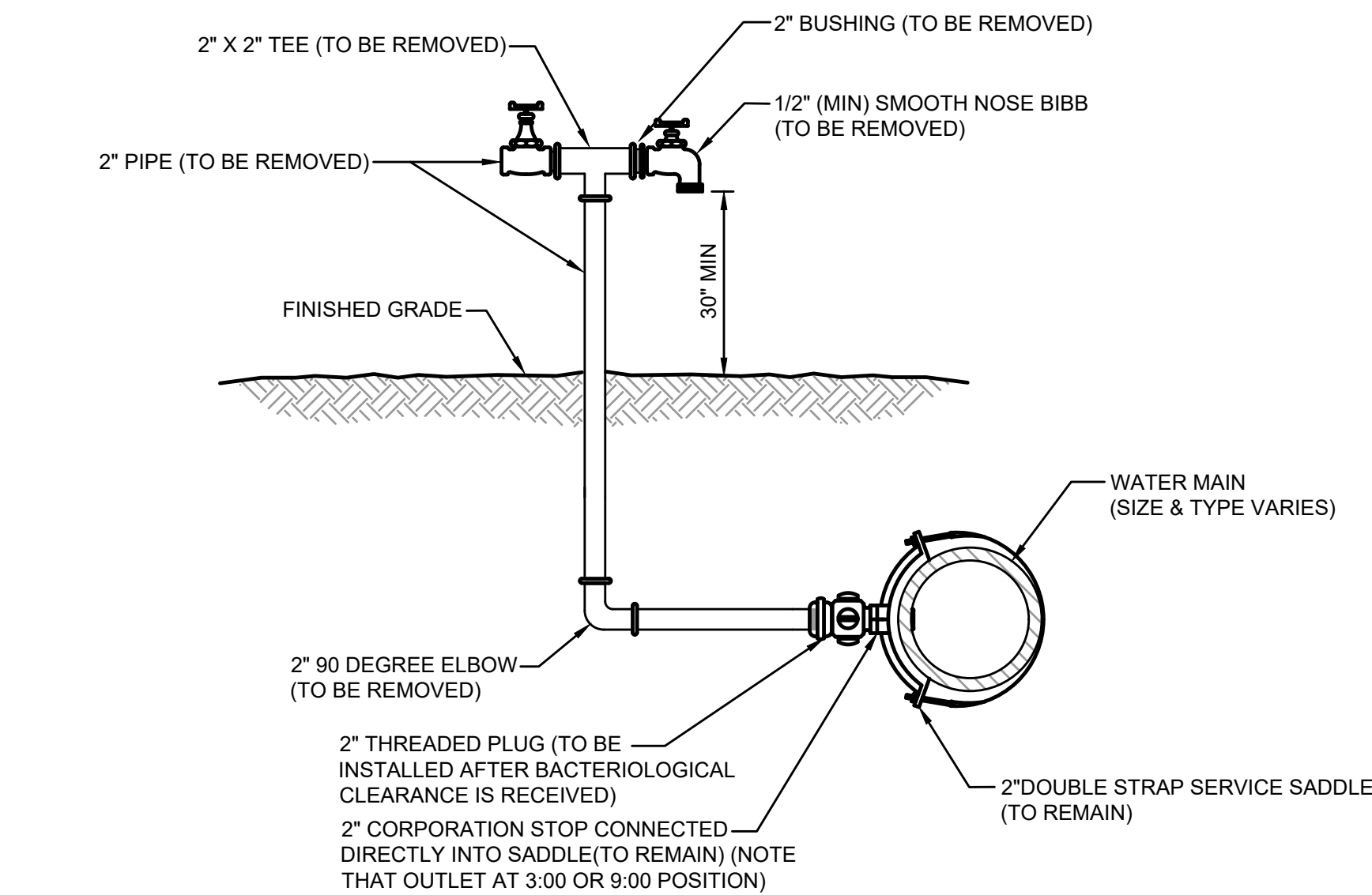


- NOTES:**
1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2" ELECTRIC EASEMENT.
  2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY (NASSAU, CLAY OR ST. JOHNS COUNTY), THE METER BOX SHALL BE LOCATED IN THE JEA 7 1/2" UTILITY EASEMENT, AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET). UNLESS APPROVED OTHERWISE BY JEA, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF THE METER BOX IS APPROVED BY JEA TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-384, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND TOP). SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY JEA, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. JEA SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
  3. IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
  4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN/BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. IF LOCATE WIRE IS REQUIRED, THE WIRE SHALL RUN FROM THE METER BOX (W/ PIG TAIL) TO THE MAIN (DEAD END SHALL BE TAPED WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY JEA. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
  5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTILE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CORP STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER-MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN PVC CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" DIP, 4" PIPE, 4"x1" SADDLES AND 1" CORP STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE P.E. ENGINEER.
  6. DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.
  7. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "N" FITTING. (IN AREAS WHERE NO RECLAIMED WATER IS AVAILABLE).
  8. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
  9. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED, AT A MIN. OF 10' FROM THE POTABLE WATER SERVICE, AND/OR BOX AND NOT ALLOWED IN CONCRETE OR ASPHALT UNLESS APPROVED OTHERWISE BY JEA.
  10. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

## WATER OR RECLAIM SERVICE INSTALLATIONS 2" AND SMALLER METER

JANUARY 2024

PLATE W-1

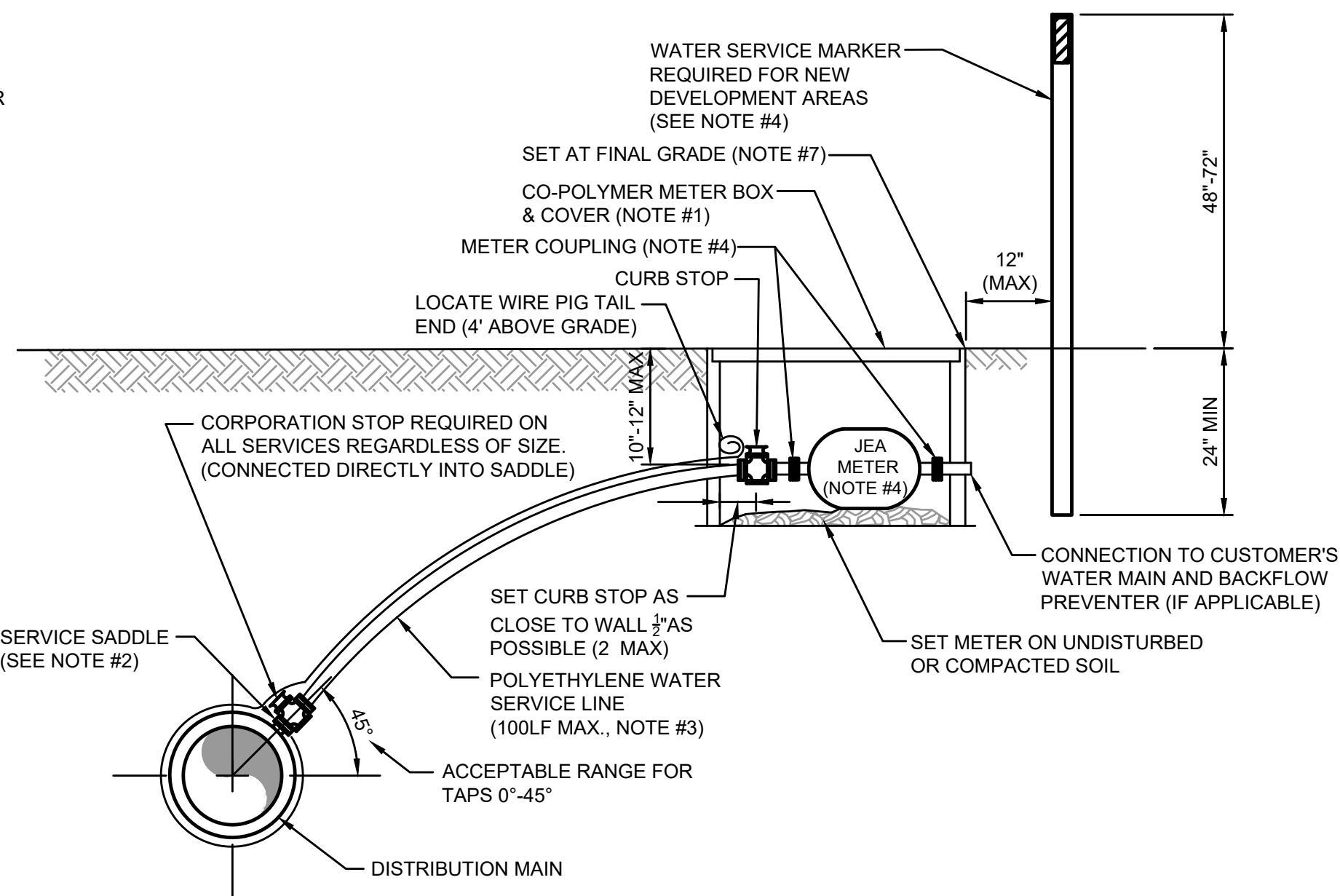


- NOTES:**
1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
  2. ALL PIPE & FITTING SHALL BE GALVANIZED MATERIAL OR PVC (S-40).
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTING (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED
  4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

2" TEMPORARY SAMPLE TAP FOR STUB OUT

JANUARY 2024

PLATE W-26

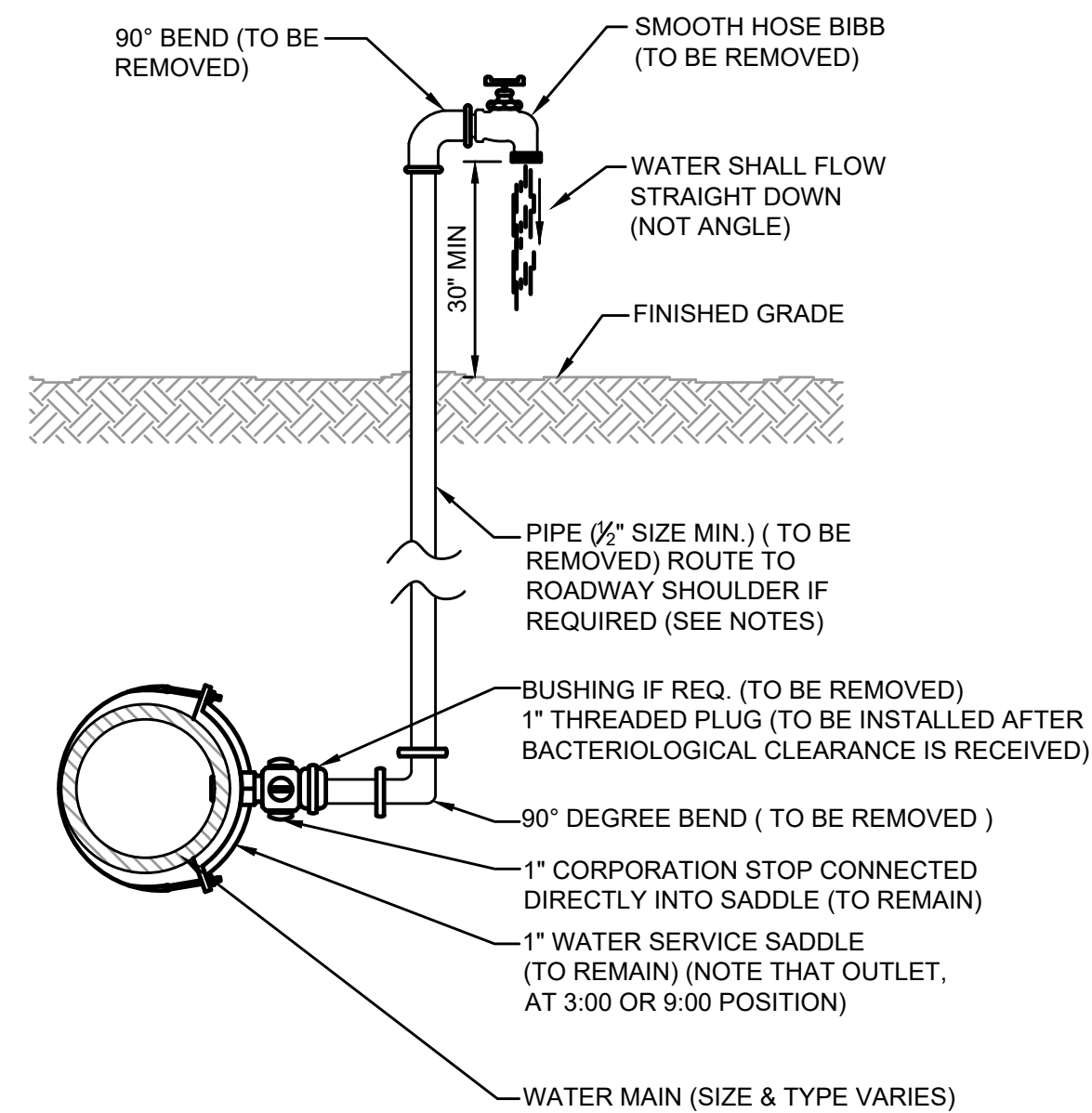


1. SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.
2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY J.E.A. CONSTRACT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED), WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE, PAINTED PURPLE FOR RECLAIMED WATER. IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3X3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER). THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (i.e. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. SEE PLATE W-44.

## WATER SERVICE DETAIL- 2" AND SMALLER METER

JANUARY 2024

PLATE W-2

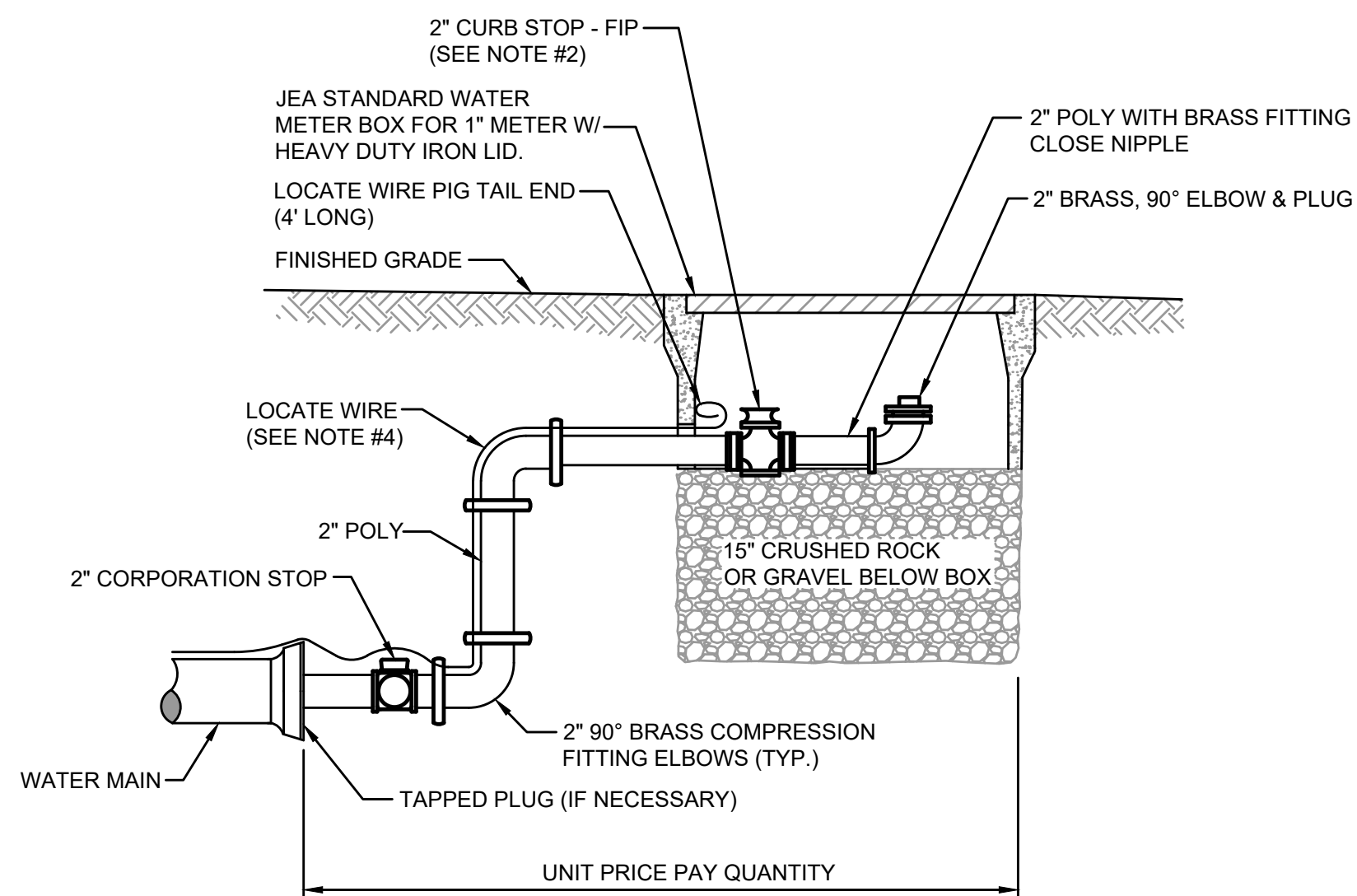


- NOTES:**
1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
  3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
  4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
  5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

## TEMPORARY SAMPLE TAP

JANUARY 2024

PLATE W-25



- NOTES:**
1. PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
  2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
  3. ANY RECLAIMED WATER VALVE SHALL HAVE RECLAIMED EMBLEM.
  4. LOCATE WIRE FOR 10' OR GREATER IN LENGTH.
  5. NOT BE PLACED UNDER CONCRETE OR PAVEMENT.
  6. PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

## FLUSHING VALVE BELOW GRADE

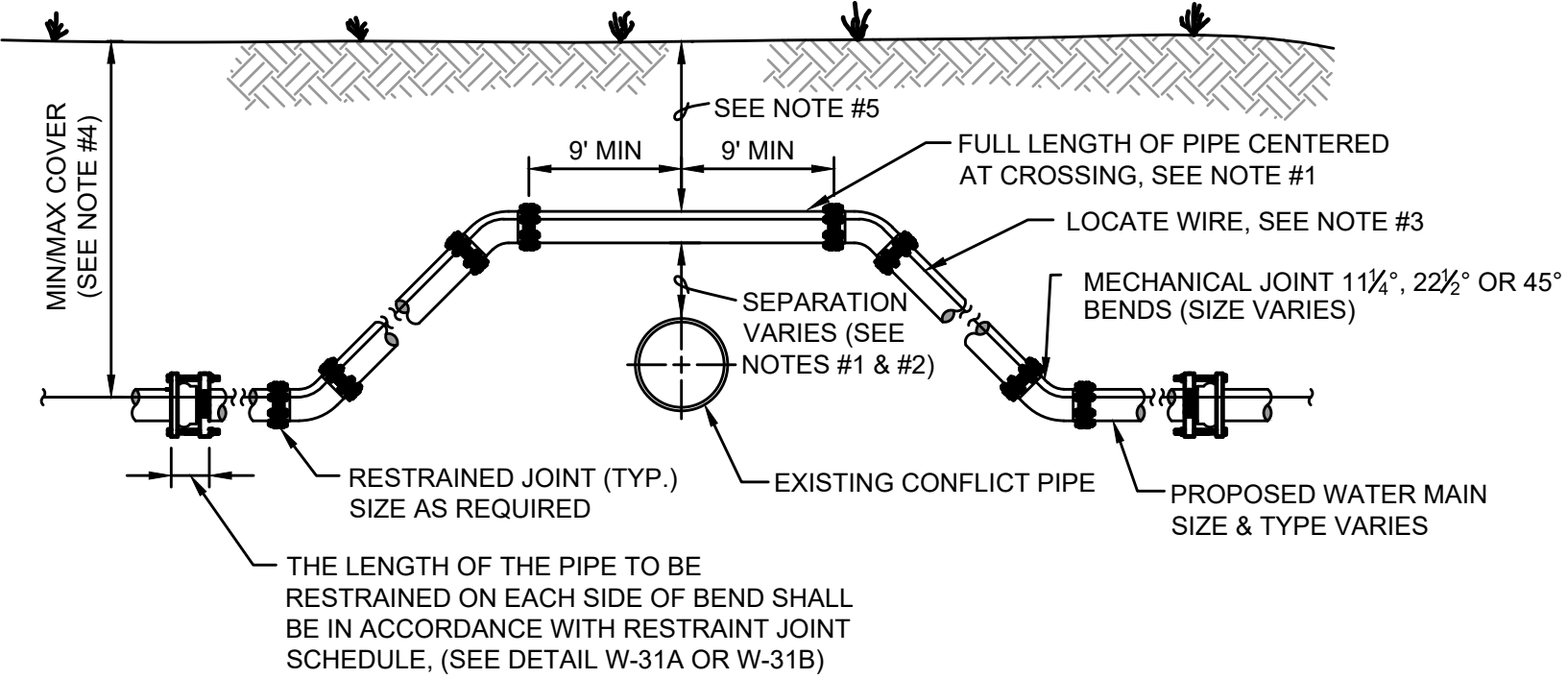
JANUARY 2024

PLATE W-28

NO. SHEETS 6		PROJ. NO. 23-128-01	JEA STANDARD WATER AND RECLAIMED DETAILS				DESIGNER: DRAWN BY: DATE: CHECKED BY: DATE:		THESE DETAILS AS SHOWN ON THIS DRAWING ARE BY THE J.E.A. WE TAKE NO EXCEPTION TO THE DESIGN		 ENGLAND-THIMS & MILLER		Trusted Advisors, Creating Community.					
SHEET NO. 2		DATE: JANUARY 2024																
DRAWING NO. 11C		SCALE: AS NOTED									NO.		BY		DATE		REVISIONS	
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#### CASE "A" CROSSING

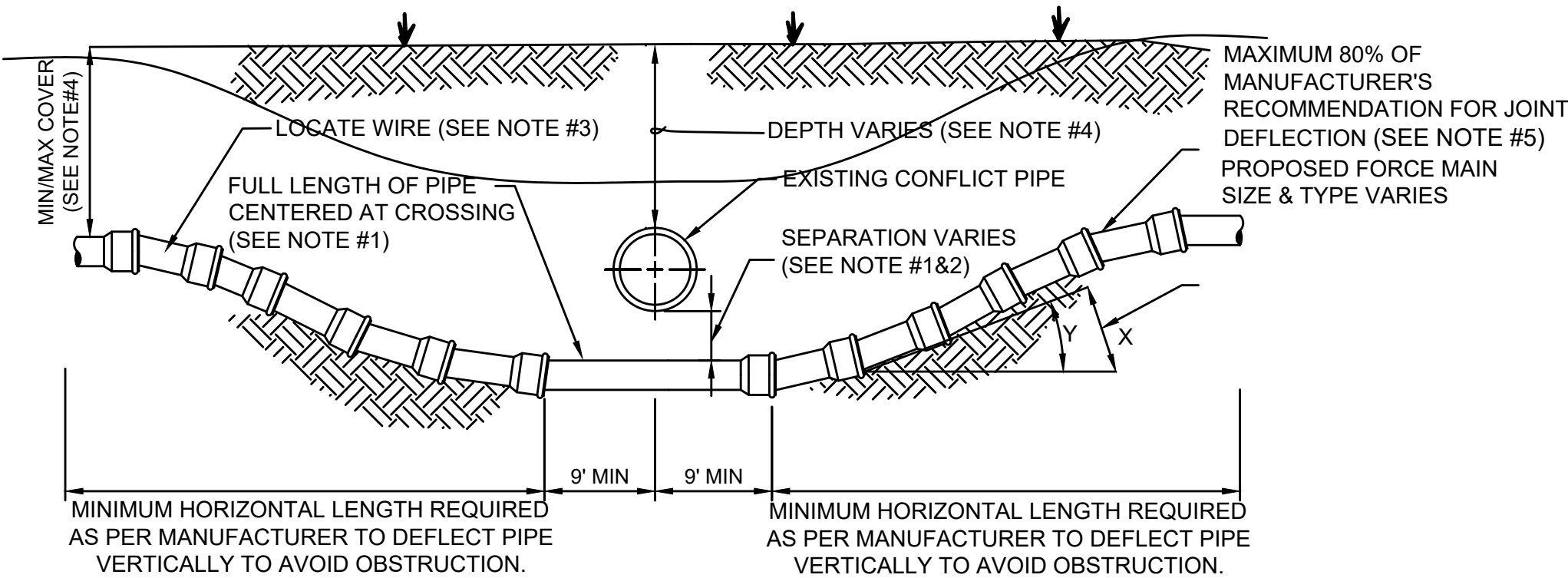
##### NOTES:

- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
- FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAIL (W-10 AND W-11).
- LOCATING WIRE REQUIRED: SEE DETAIL W-44.
- THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

### ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2024

PLATE W-32



##### NOTES:

- IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
- FOR OTHER LOCATION LIMITATIONS SEE DETAIL (W-10 & W-11).
- LOCATING WIRE REQUIRED: SEE DETAIL W-44.
- THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
- JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED, UNLESS OTHERWISE APPROVED BY JEA. THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

#### MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

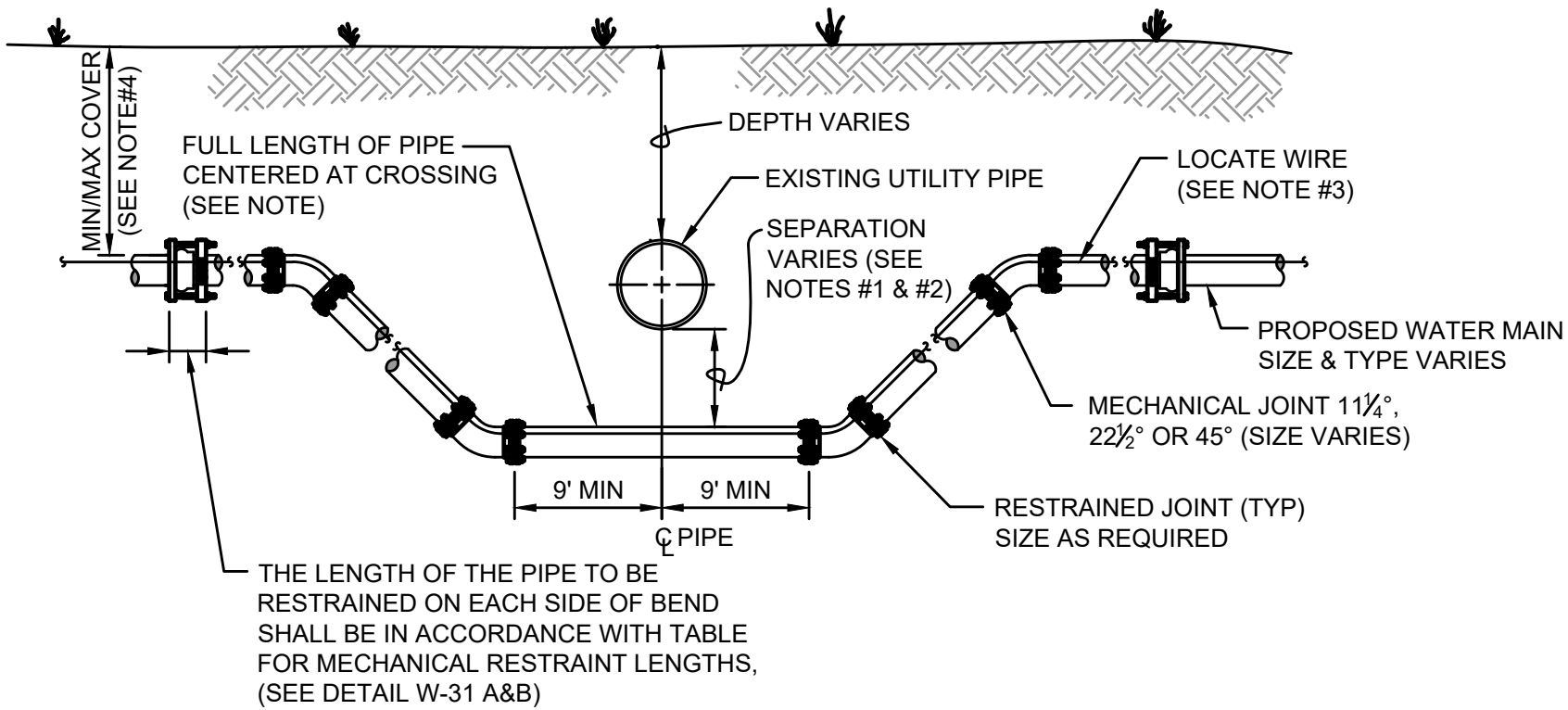
PVC PIPE			
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)			
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

### ADJUSTMENT UNDER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2024

PLATE W-40



#### CASE "B" CROSSING

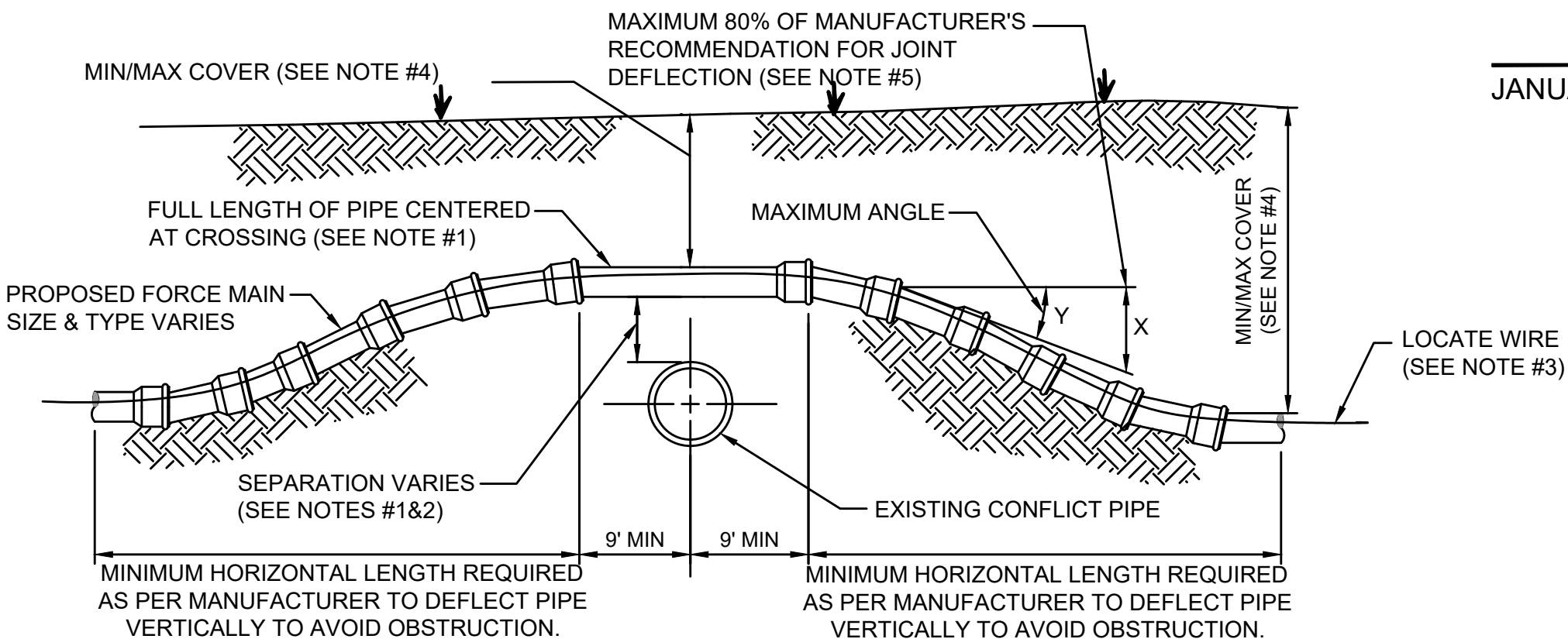
##### NOTES:

- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557
- FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAILS (W-10 AND W-11)
- LOCATING WIRE REQUIRED: SEE DETAIL W-44.
- THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- IN LOCATIONS WHERE WATER/RECLAIM MAINS CROSS UNDER A BOX-CULVERT, OR 36-INCH DIAMETER AND LARGER STORM WATER MAIN, JEA WILL REQUIRE DIP TO BE UTILIZED FOR THE MAIN.

### ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2024

PLATE W-34



#### CASE "A" CROSSING

##### NOTES:

- IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
- FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-10 & W-11).
- LOCATING WIRE REQUIRED: SEE DETAIL W-44.
- THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
- JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED, UNLESS OTHERWISE APPROVED BY JEA. THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

#### MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

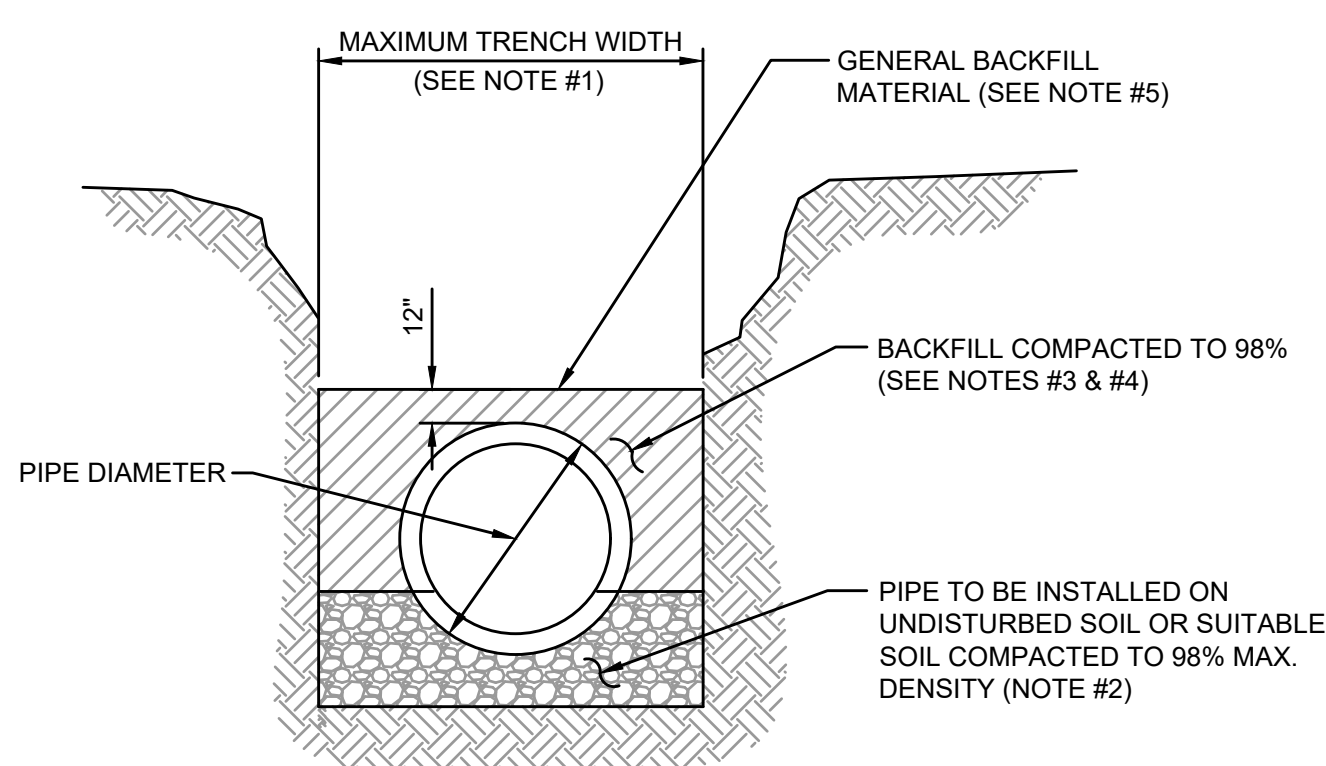
PVC PIPE			
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)			
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

### ADJUSTMENT OVER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2024

PLATE W-41



#### TYPICAL TRENCH

##### NOTES:

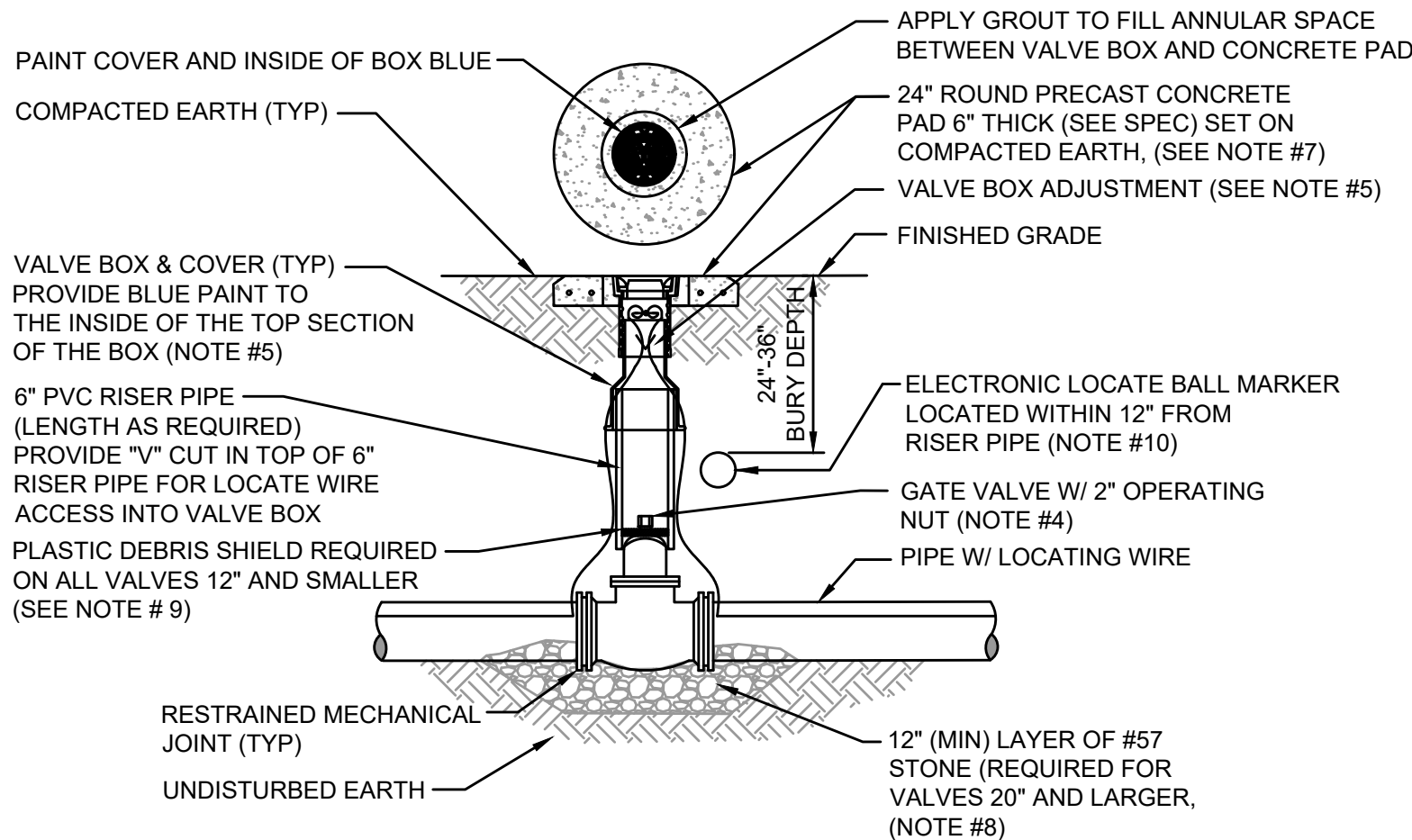
- TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
- BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
- BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
- BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
- SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

### OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2024

IN CITY RIGHT OF WAY

PLATE W-42



##### NOTES:

- FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
- LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAILW-44).
- A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ADJACENT/( ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED BLUE WATER/PURPLE RECLAIMED.
- IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
- FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
- BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A 3/4" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
- IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
- GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO 1/3 THE OVERALL HEIGHT OF THE VALVE.
- FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
- ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1403XR FOR WATER AND 1408XR FOR RECLAIMED WATER).

### WATER VALVE INSTALLATION DETAIL

JANUARY 2024

PLATE W-18

Trusted  
Advisors,  
Creating  
Community.

**ETM**  
ENGLAND-THIMS & MILLER

THESE DETAILS AS SHOWN ON THIS  
DRAWING ARE BY THE JEA. WE TAKE  
NO EXCEPTION TO THE DESIGN

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DATE:		DATE:		3.			
CHECKED BY:		FLORIDA REGISTRATION NO.		2.			
DATE:		94608		1.			

DESIGN ENGINEER  
DALLAS SCHRIER  
FLORIDA REGISTRATION NO.  
94608

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DRAWN BY:  
DATE:  
CHECKED BY:  
DATE:

**JEA**  
Building Community

JEA STANDARD  
WATER AND RECLAIMED DETAILS

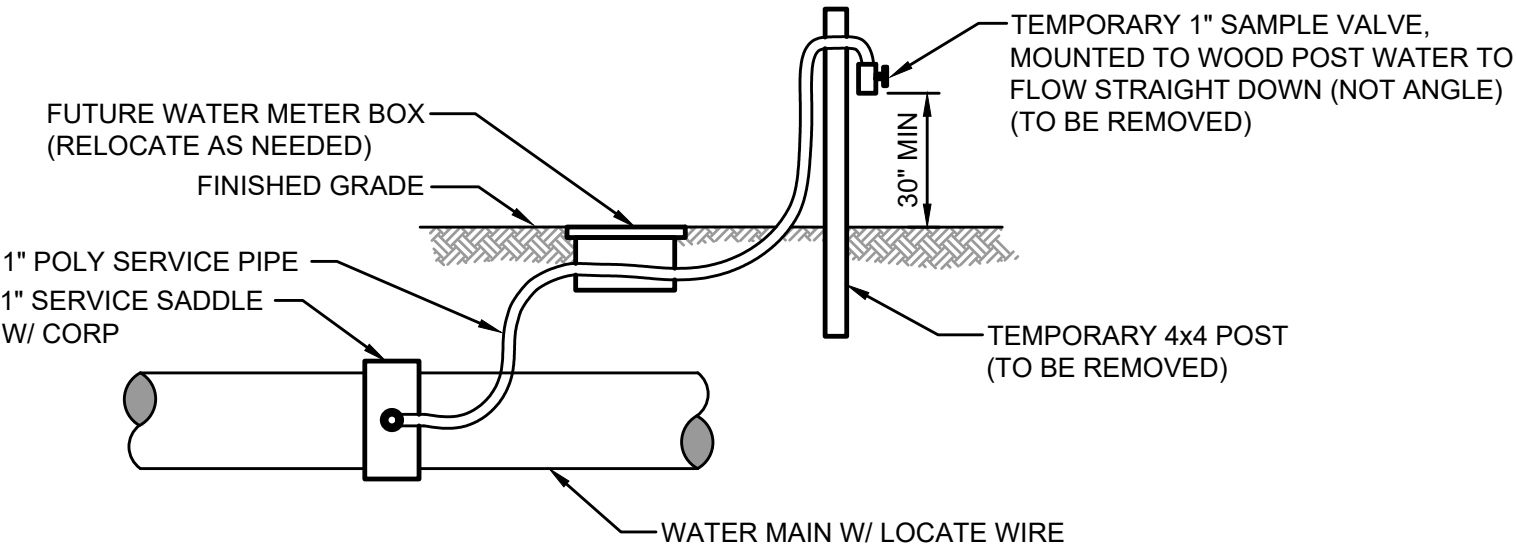
CVS AT WILDLIGHT

PROJ. NO. 23-128-01	DATE: JANUARY 2024	SCALE: AS NOTED
NO. SHEETS 6	SHEET NO. 3	DRAWING NO. 11D





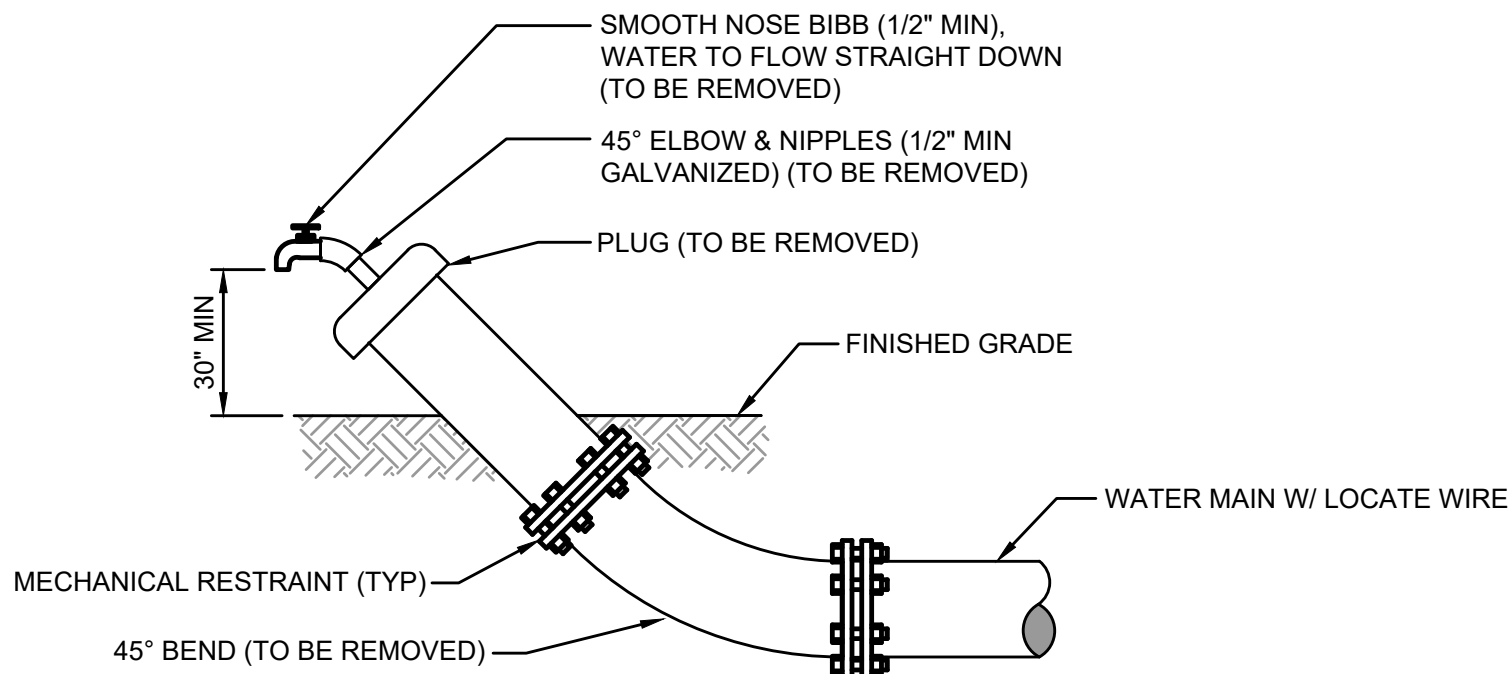




TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE

NOTES:

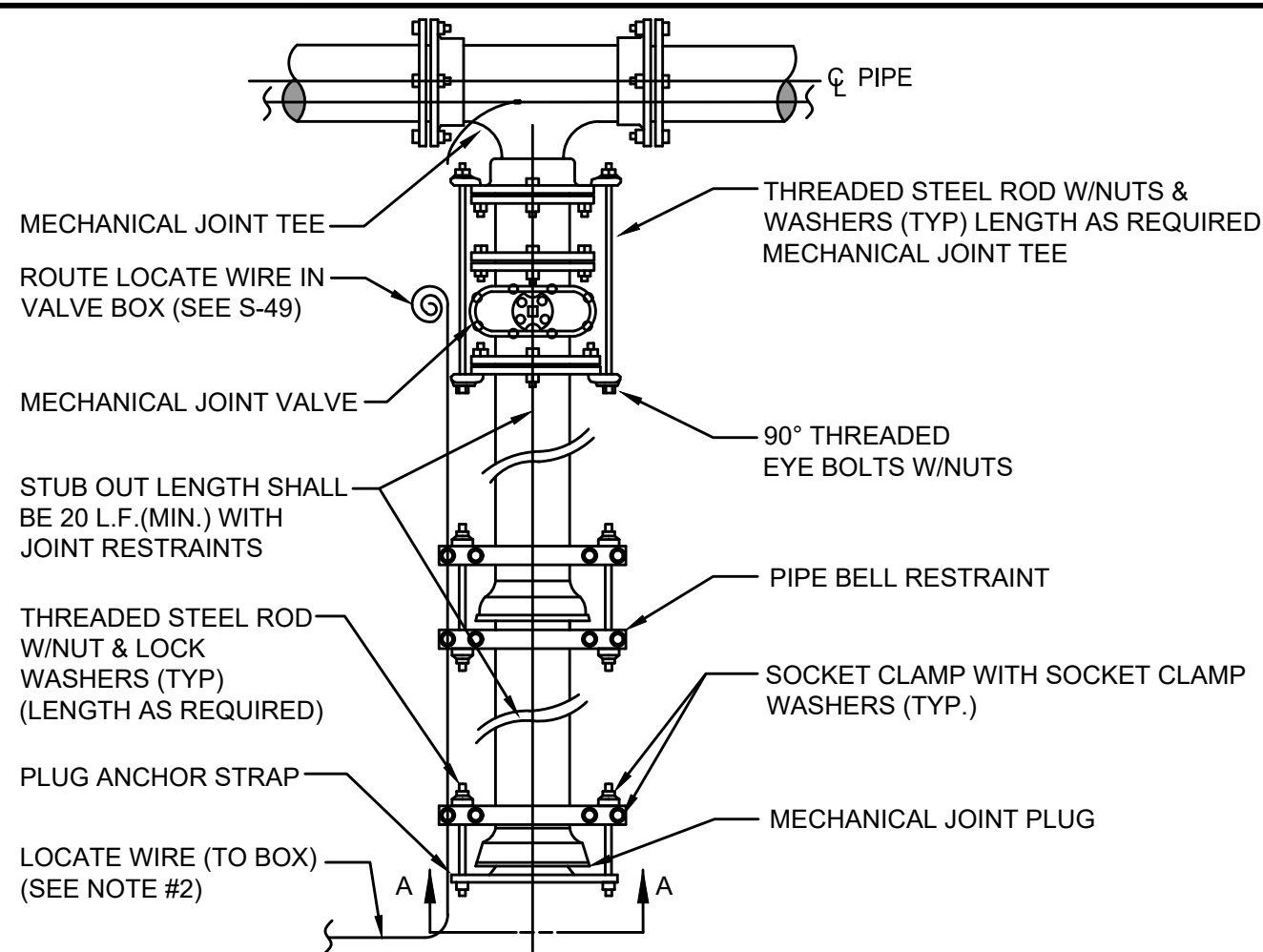
1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.



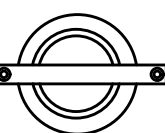
TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.



PLAN



SECTION "A-A"

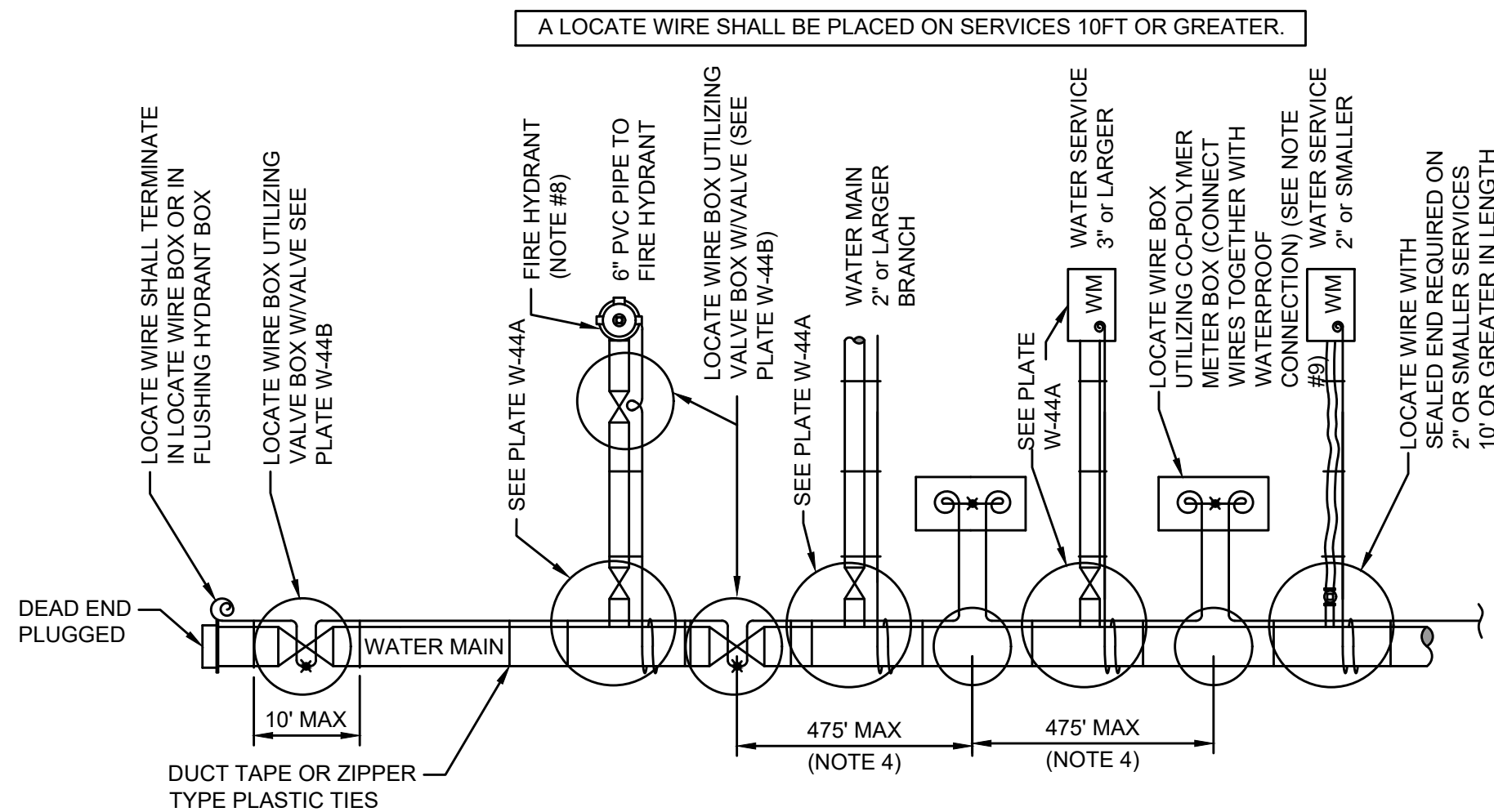
NOTES:

1. IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
2. LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
3. NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:  
3" - 8" DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
10" - 12" DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
14" - 16" DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
18" - 20" DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
24" DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
30" - 36" DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)  
42" - 48" DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)  
54" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
4. THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD A

JANUARY 2024

PLATE W-24



LOCATE WIRE SYSTEM

NOTES:

1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON OR PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
2. SECURE LOCATING WIRE TO PVC & D.I.P. WATER MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS. SEE DETAIL PLATE W-44B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. REFER TO SECTION 350 FOR LOCATE WIRE SPECIFICATIONS.
6. "X" INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH A WATERPROOF CONNECTION. (SEE DETAIL W-44B)
7. "⊗" INDICATES A WIRE PIG-TAIL (4' LONG)
8. FOR FIRE HYDRANT LOCATE WIRE REQUIREMENTS AND EXCLUSIONS, SEE PLATES W-12,13 AND 14.
9. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
10. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR WATER MAINS

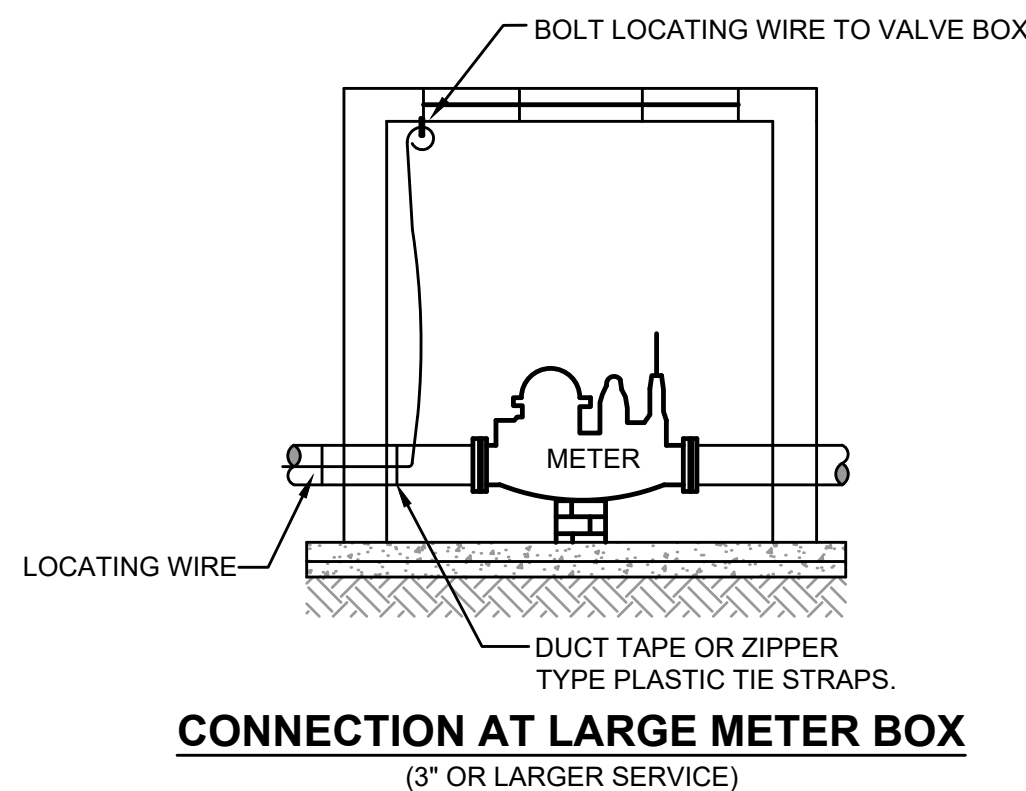
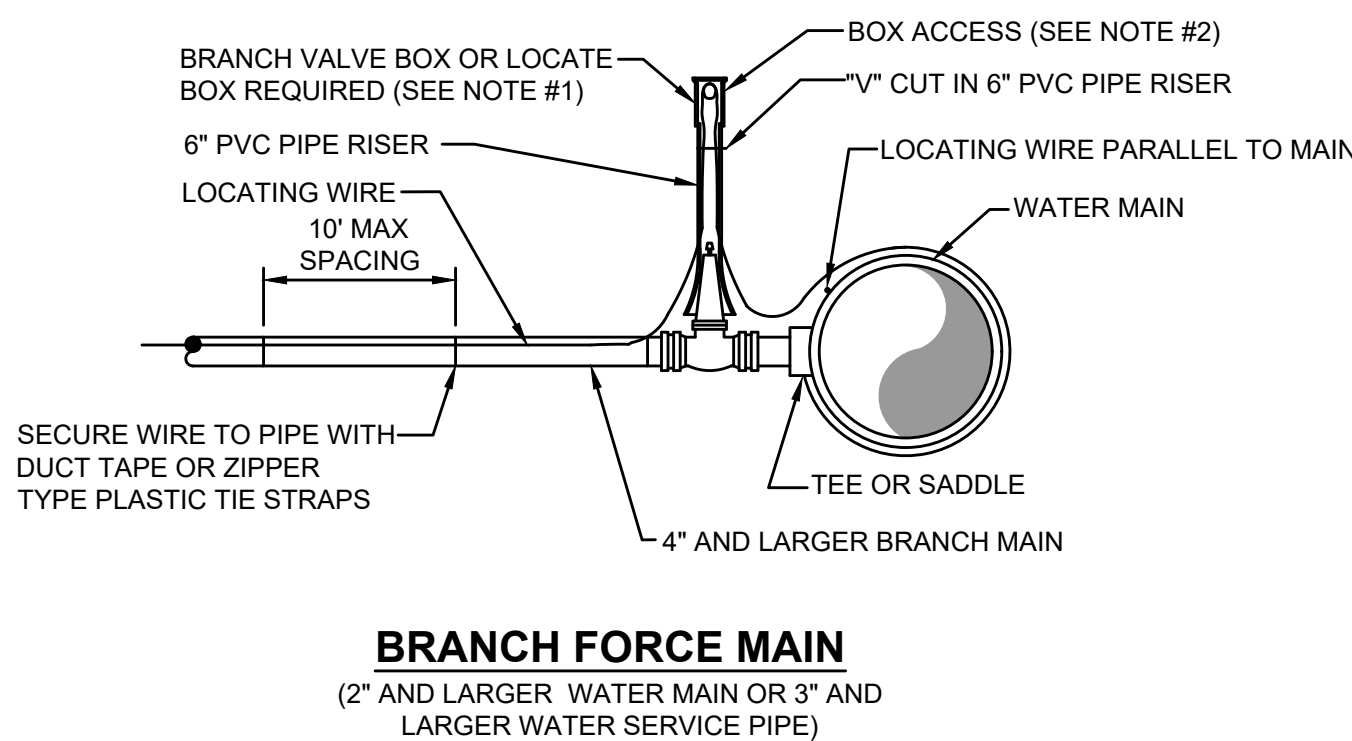
JANUARY 2024

PLATE W-44

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD B

JANUARY 2024

PLATE W-24A



NOTES:

1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE W-18).
3. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE AND LOCATE POINTS.

LOCATE WIRE FOR BRANCH MAIN

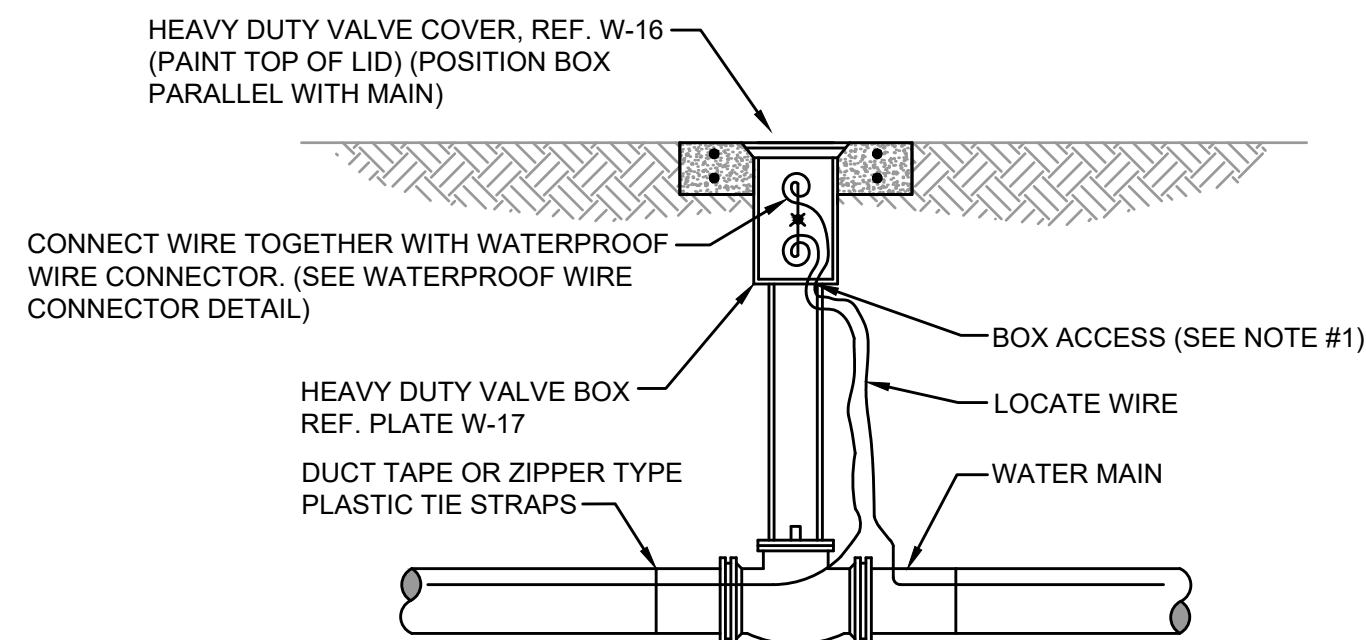
JANUARY 2024

PLATE W-44A

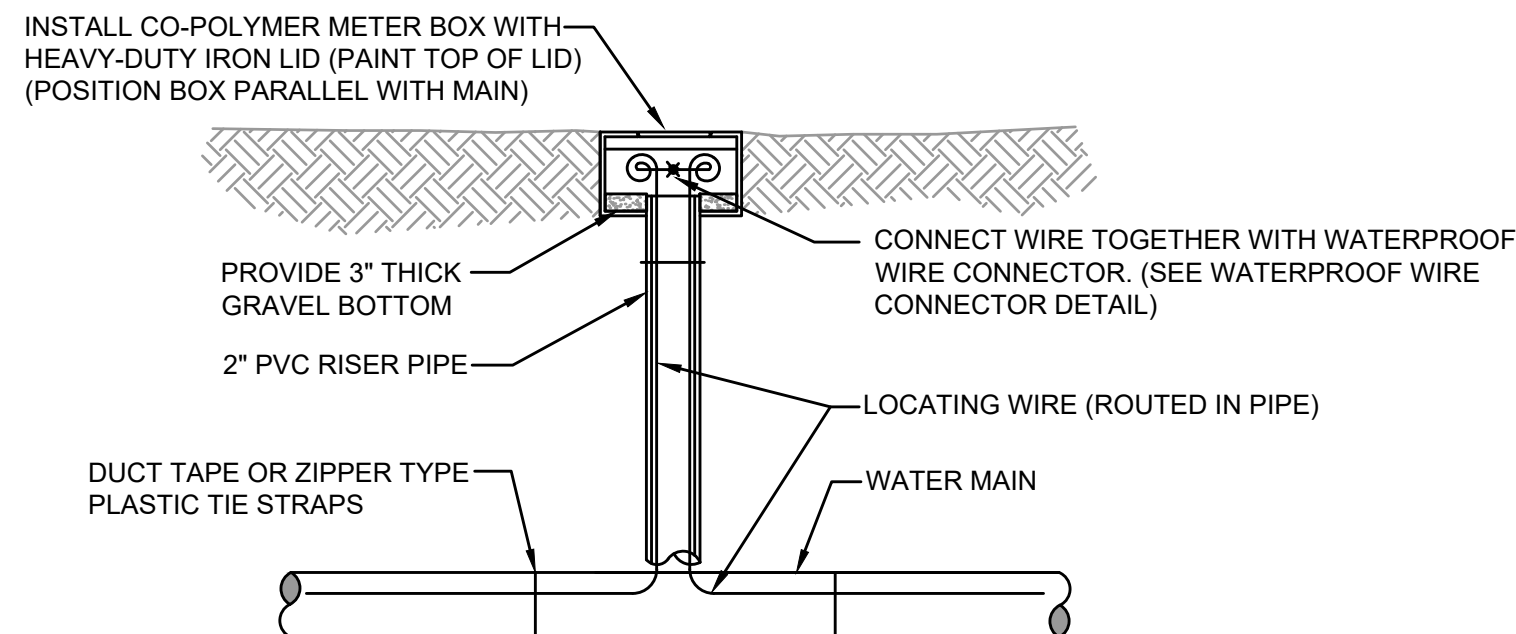
PLUGGED DEAD END USING MECHANICAL RESTRAINTS

JANUARY 2024

PLATE W-37



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

LOCATE WIRE BOX

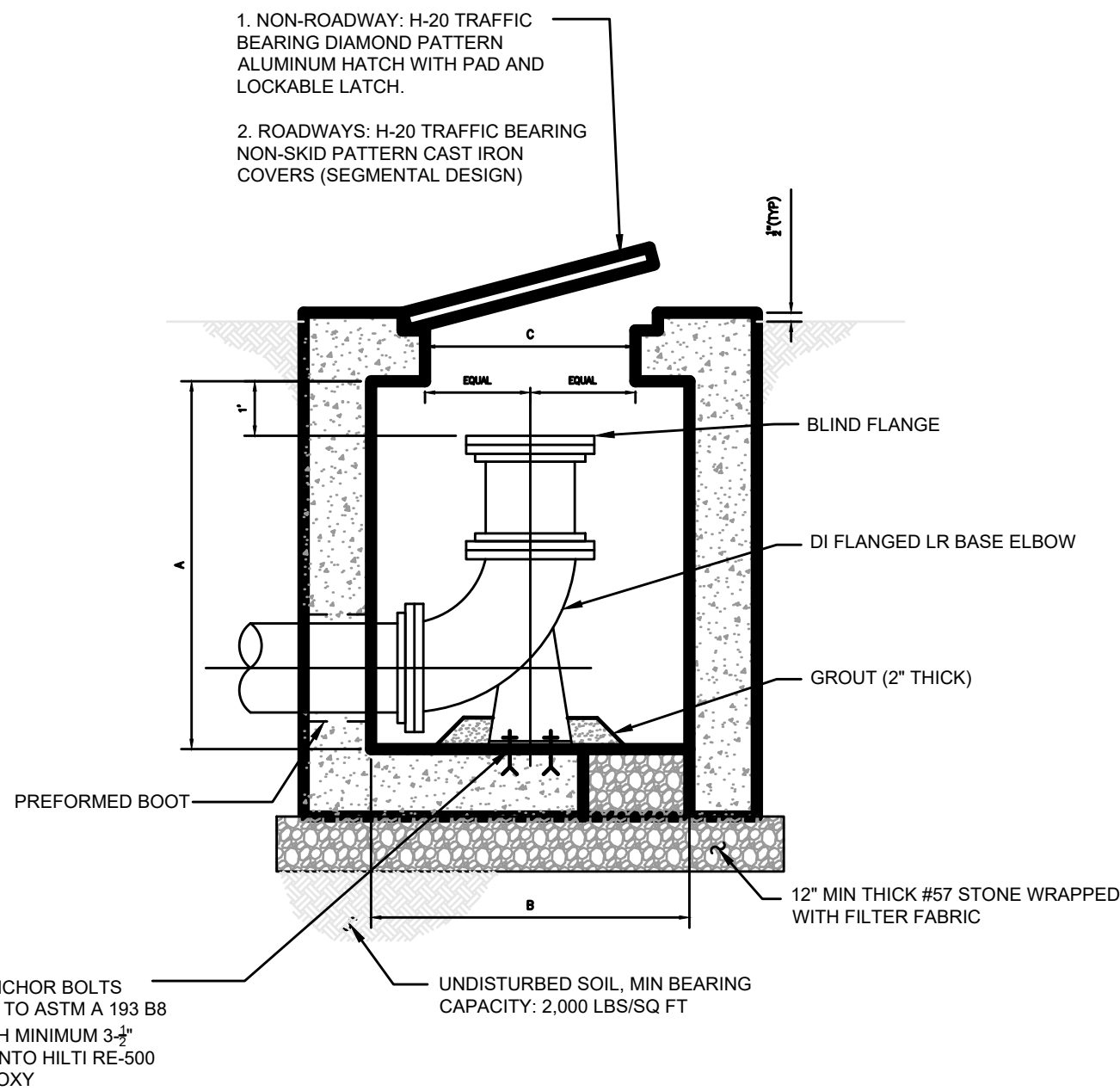
JANUARY 2024

PLATE W-44B

Trusted Advisors, Creating Community.				ETM				ENGLAND-THIMS & MILLER			
THESE DETAILS AS SHOWN ON THIS DRAWING ARE BY THE J.E.A. WE TAKE NO EXCEPTION TO THE DESIGN				DESIGN ENGINEER DALLAS SCHRIER FLORIDA REGISTRATION NO. 94608				DESIGNER DRAWN BY: DATE: CHECKED BY: DATE:			
JEA STANDARD WATER AND RECLAIMED DETAILS				JEA				Building Community			
CVS AT WILDLIGHT				PROJ. NO. 23-128-01				DATE: JANUARY 2024			
NO. SHEETS 6				SHEET NO. 5				SCALE: AS NOTED			
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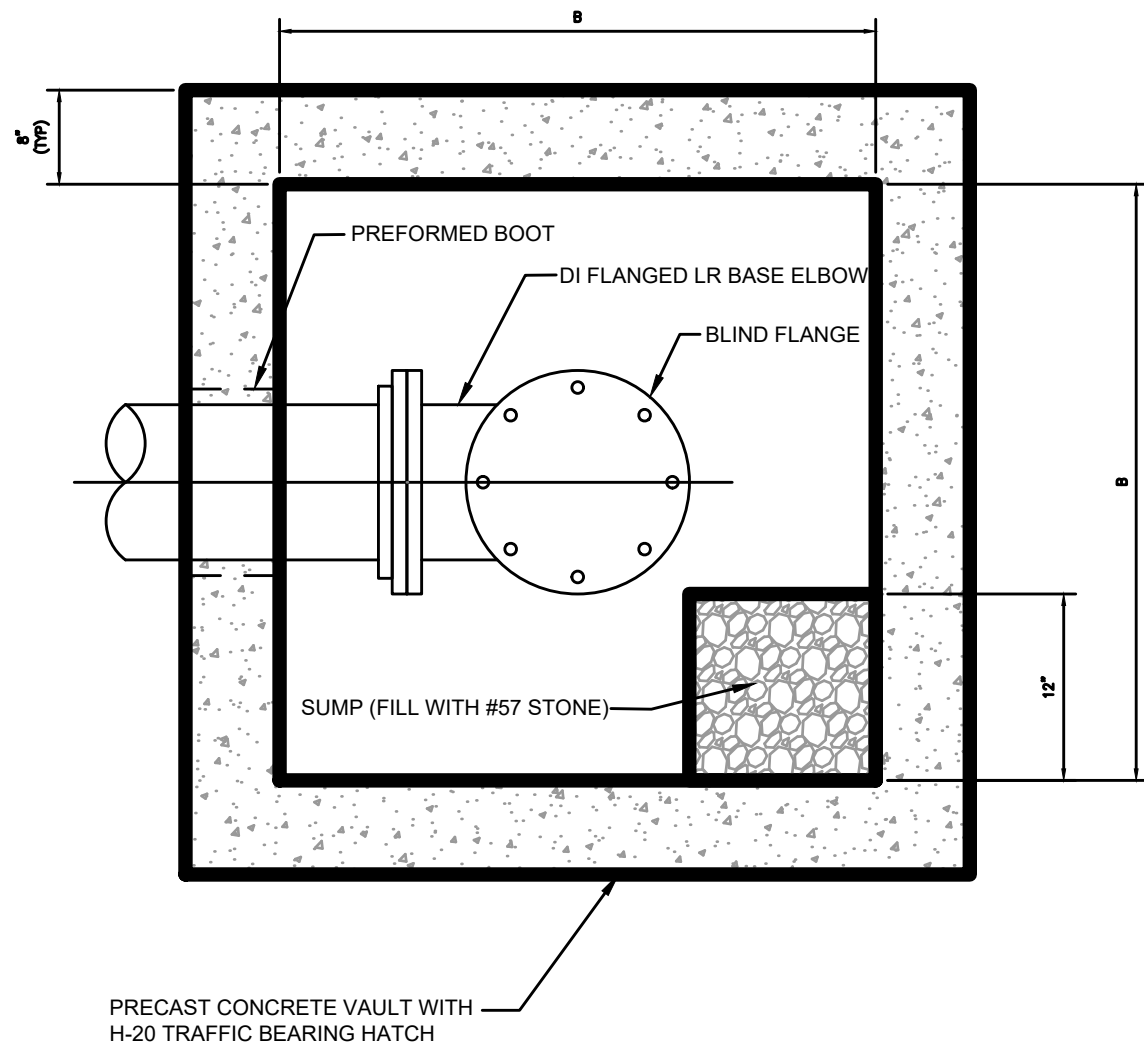


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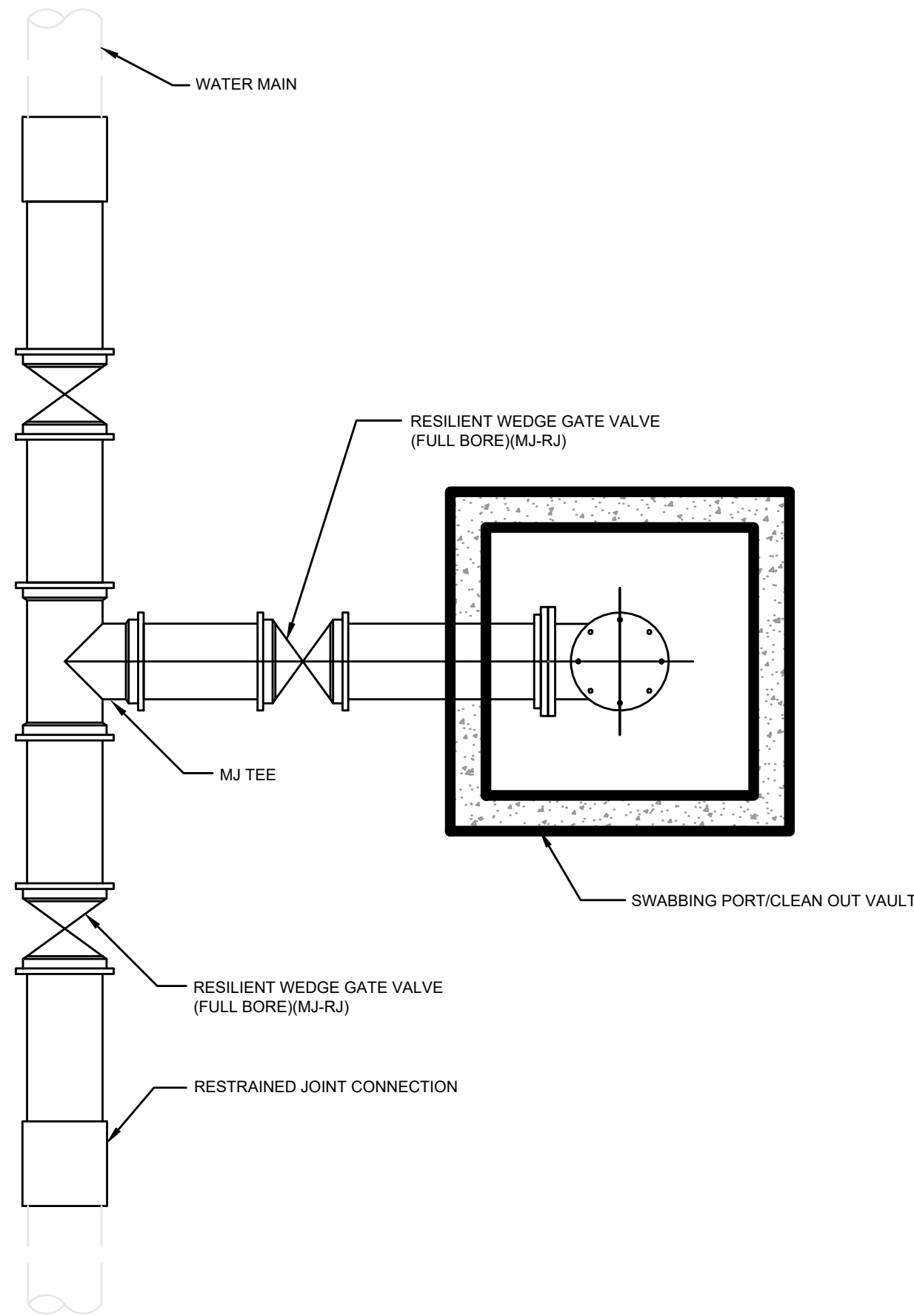
## SWABBING PORT AND CLEAN OUT VAULT DETAIL - SECTION

JANUARY 2024      PLATE W-45



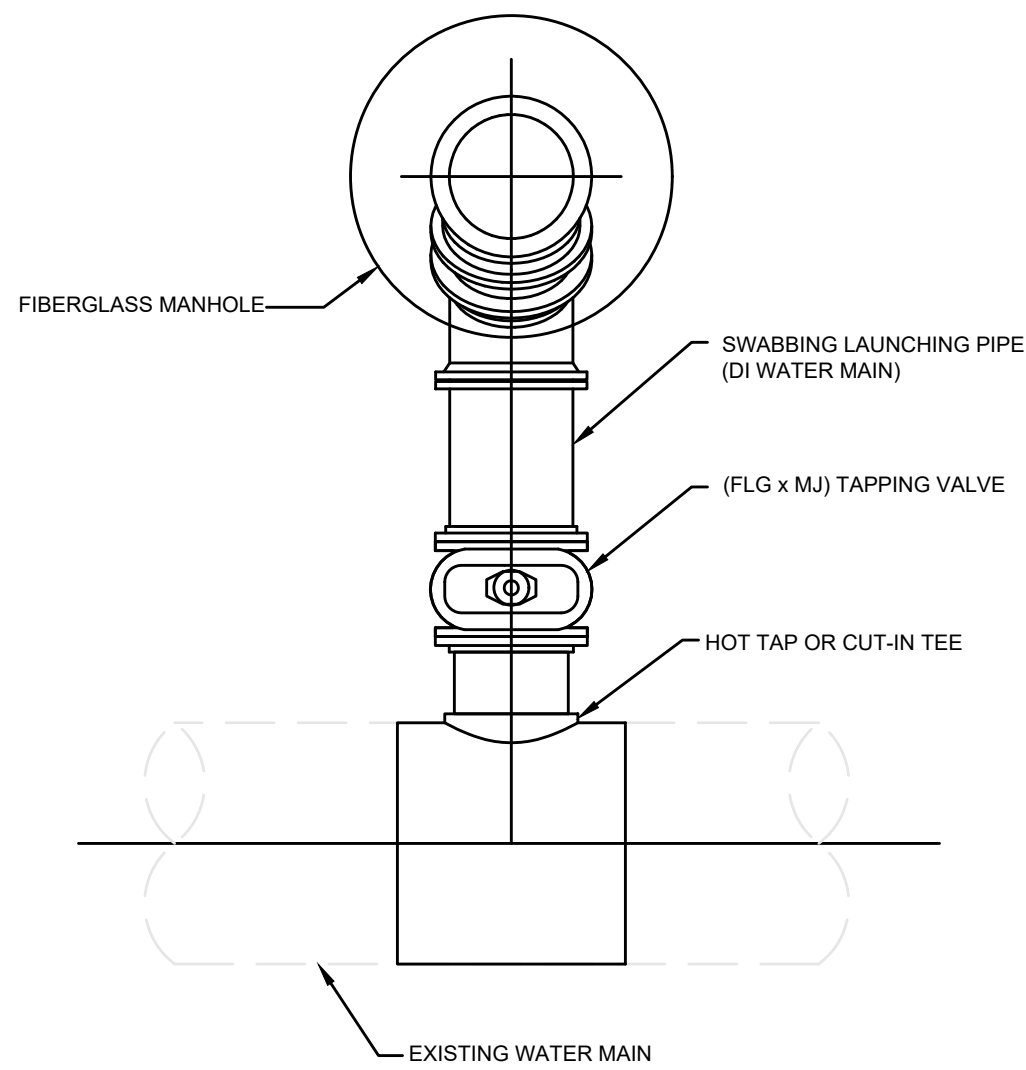
## SWABBING PORT AND CLEAN OUT VAULT DETAIL - PLAN

JANUARY 2024      PLATE W-45A



## SWABBING LAUNCHING STATION DETAIL FOR NEW WATER MAIN UP TO 24"

JANUARY 2024      PLATE W-45B

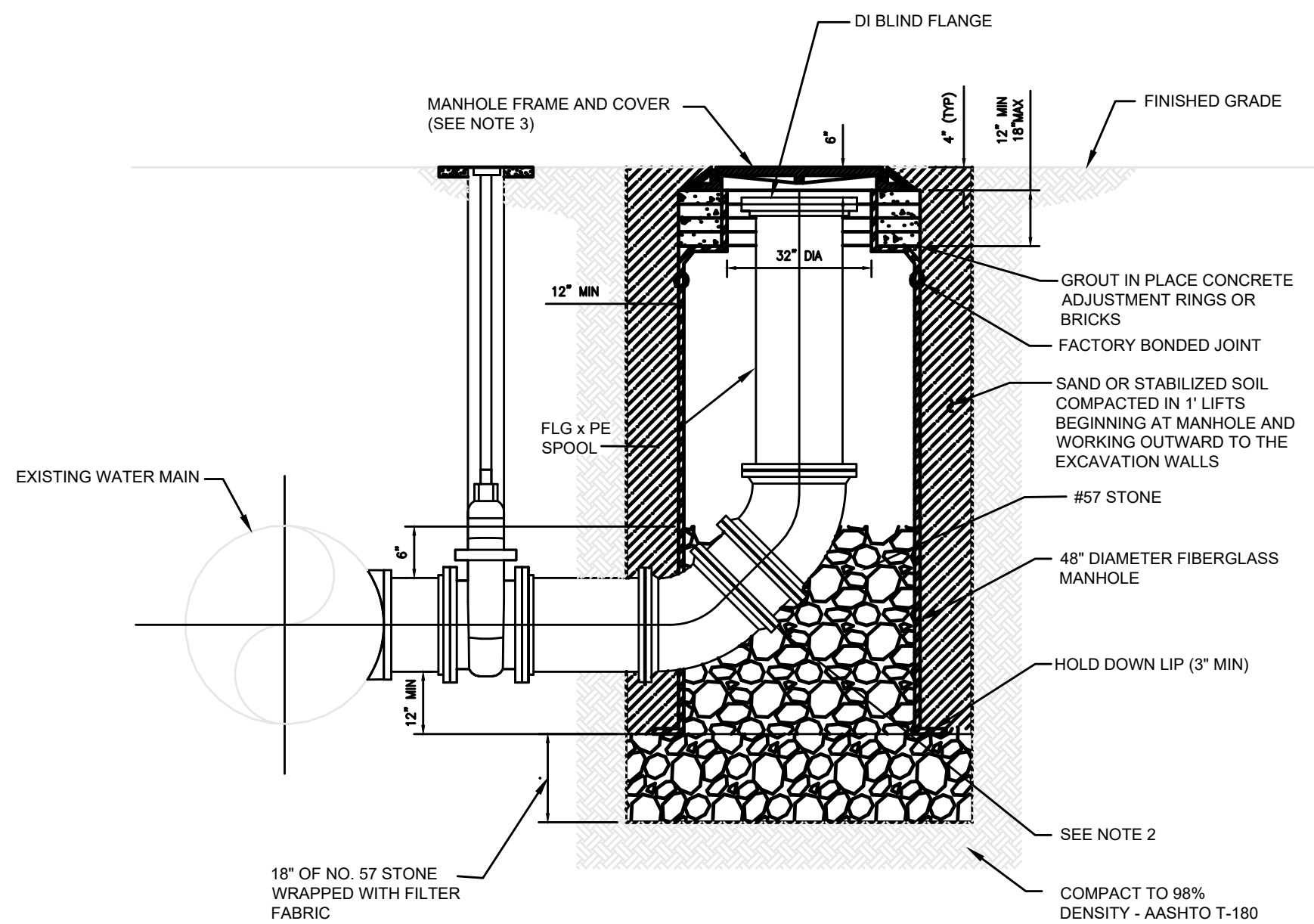


### NOTES:

- FOR HOT TAP CONNECTIONS ON EXISTING WATER MAINS 10" DIAMETER AND GREATER, DIAMETER OF TAPPING VALVE AND PIG LAUNCHING PIPE SHALL BE ONE NOMINAL SIZE LESS THAN EXISTING WATER MAIN.

## SWABBING PIG LAUNCHING STATION DETAIL FOR WATER MAINS UP TO 24" - PLAN

JANUARY 2024      PLATE W-45C



### NOTES:

- PROVIDE ALL MATERIALS IN ACCORDANCE TO JEA WATER AND WASTEWATER STANDARD SPECIFICATIONS.
- USE TWO VERTICAL 45 DEGREE MJ BENDS OR LONG RADIUS 90 DEGREE MJ BEND.
- PROVIDE STANDARD JEA FRAME AND COVER.
- RESTRAIN ALL JOINTS.

## RETROFIT SWABBING LAUNCHING STATION DETAIL FOR WATER MAINS UP TO 24" - SECTION

JANUARY 2024      PLATE W-45D

Trusted  
Advisors,  
Creating  
Community.

**ETM**  
ENGLAND-THIMS & MILLER

THESE DETAILS AS SHOWN ON THIS  
DRAWING ARE BY THE J.E.A. WE TAKE  
NO EXCEPTION TO THE DESIGN

NO.	BY	DATE	REVISIONS
4.			
3.			
2.			
1.			

DESIGN ENGINEER  
DALLAS SCHRIER  
FLORIDA REGISTRATION NO.  
94608

DESIGNER  
DRAWN BY:  
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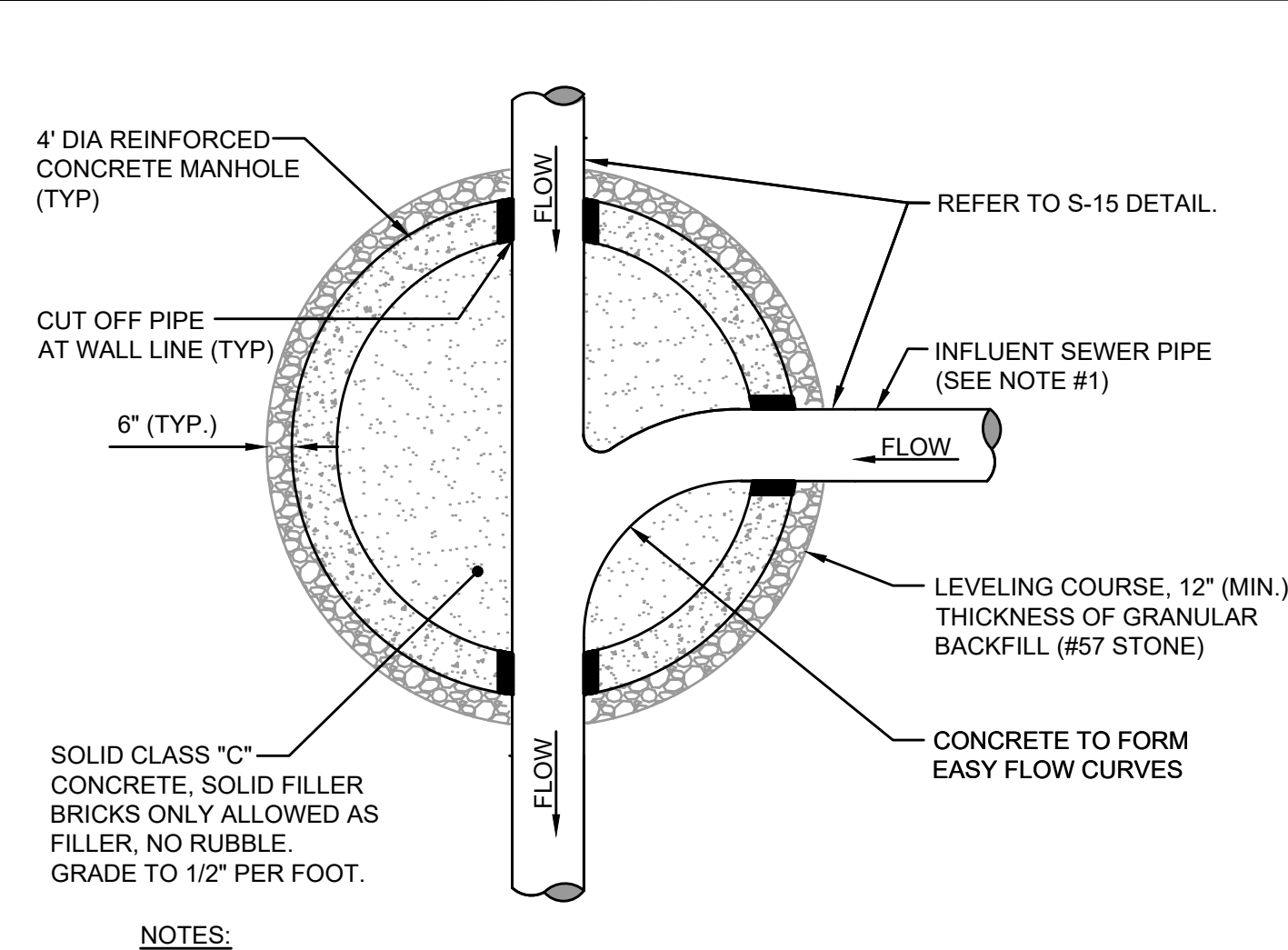
**JEA**  
Building Community

JEA STANDARD  
WATER AND RECLAIMED DETAILS  
CVS AT WILDLIGHT

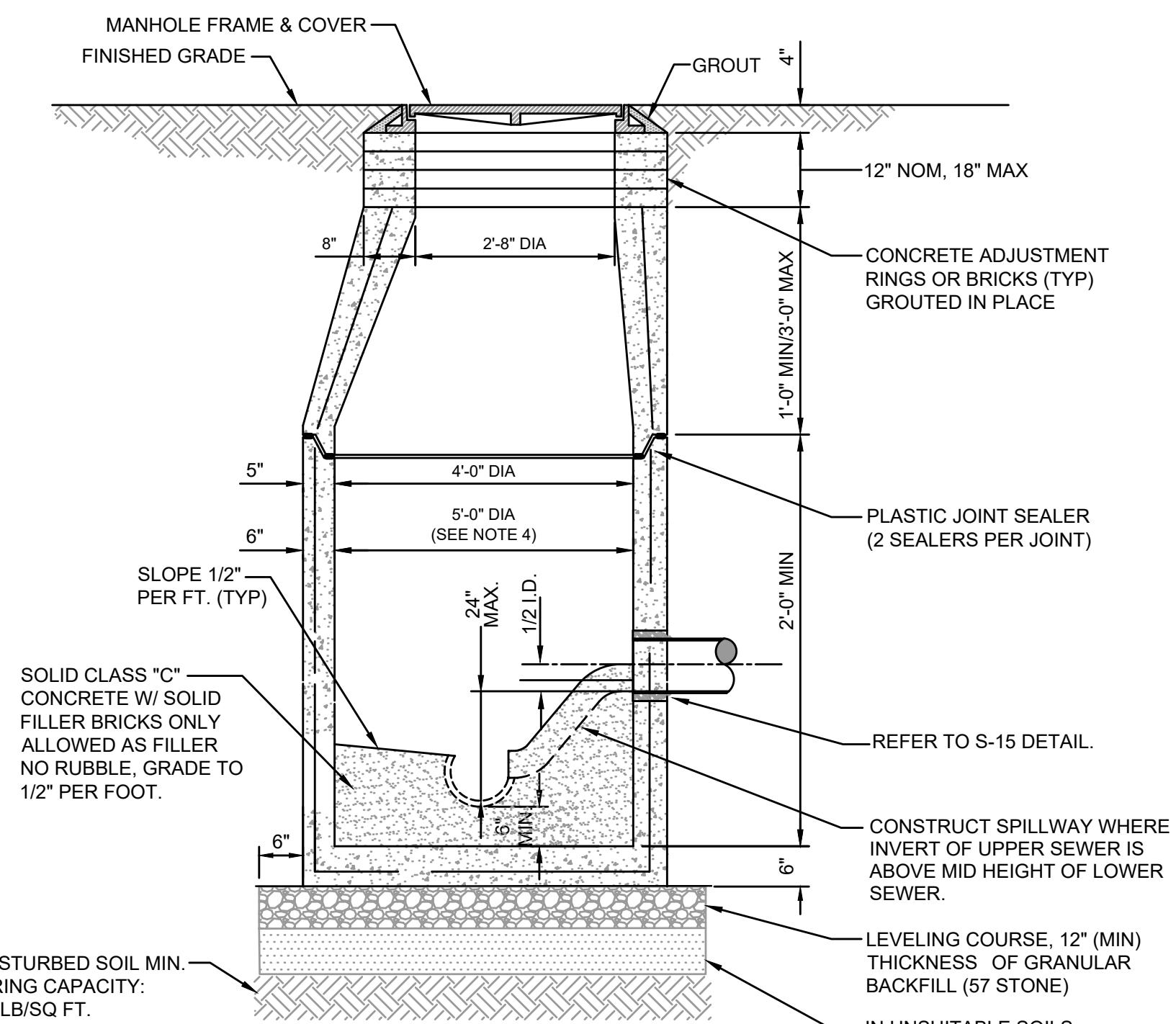
PROJ. NO. 23-128-01  
DATE: JANUARY 2024  
SCALE: AS NOTED

NO. SHEETS  
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SHEET NO.  
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DRAWING NO.  
11G





PLAN VIEW (S-3)  
(FOR SECTION VIEW SEE S-2)



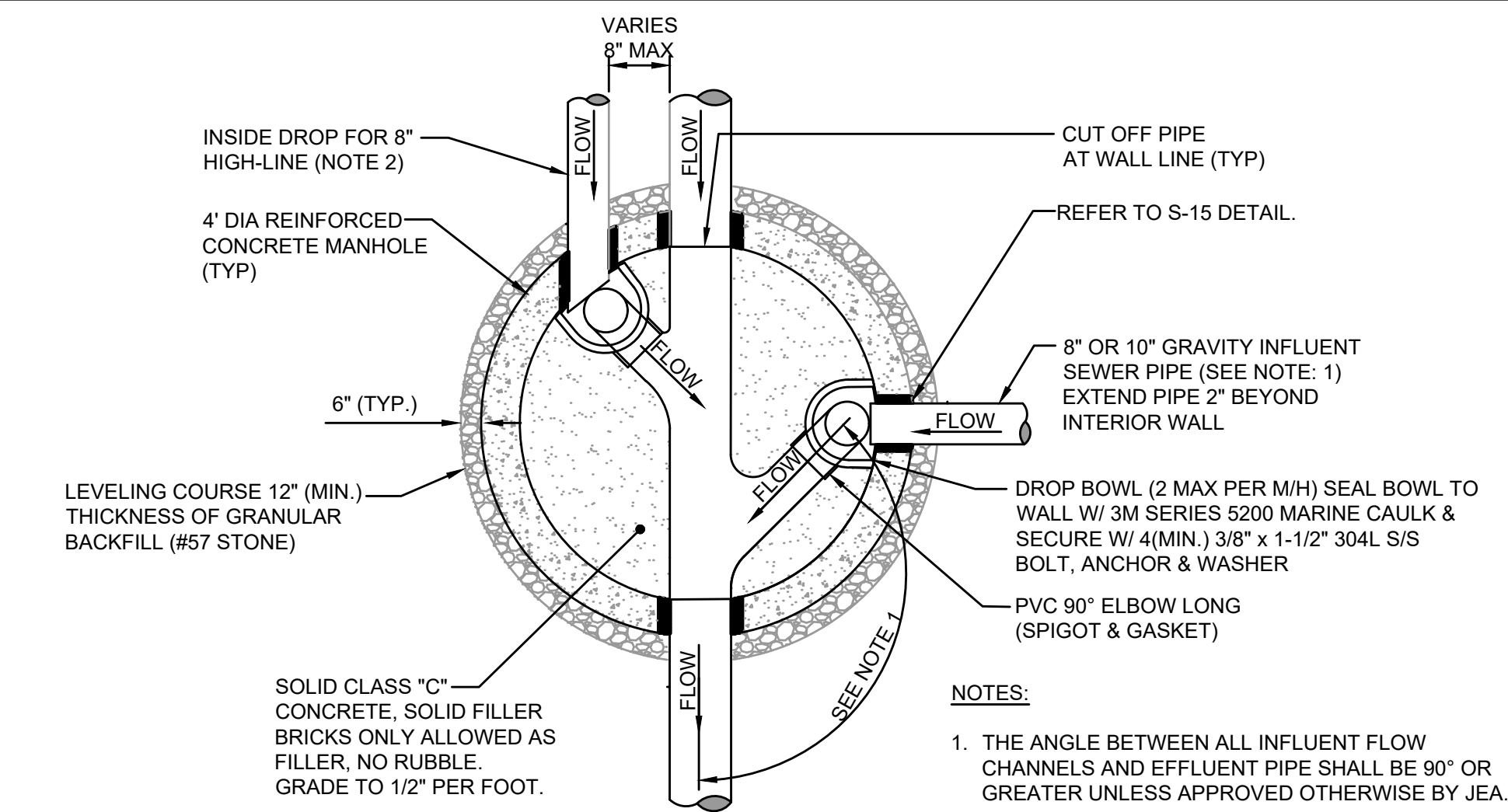
SECTION VIEW (S-2)  
(FOR PLAN VIEW SEE S-3)

- NOTES:
1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
  2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJUSTING RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
  3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
  4. JUNCTION MANHOLE (CLOSEST TO WETWELL) SHALL BE 5' DIA WITH SPECIALTY LINER.
  5. SEAL ALL EXTERIOR JOINTS PER PLATE S-17.
  6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (#57 STONE).

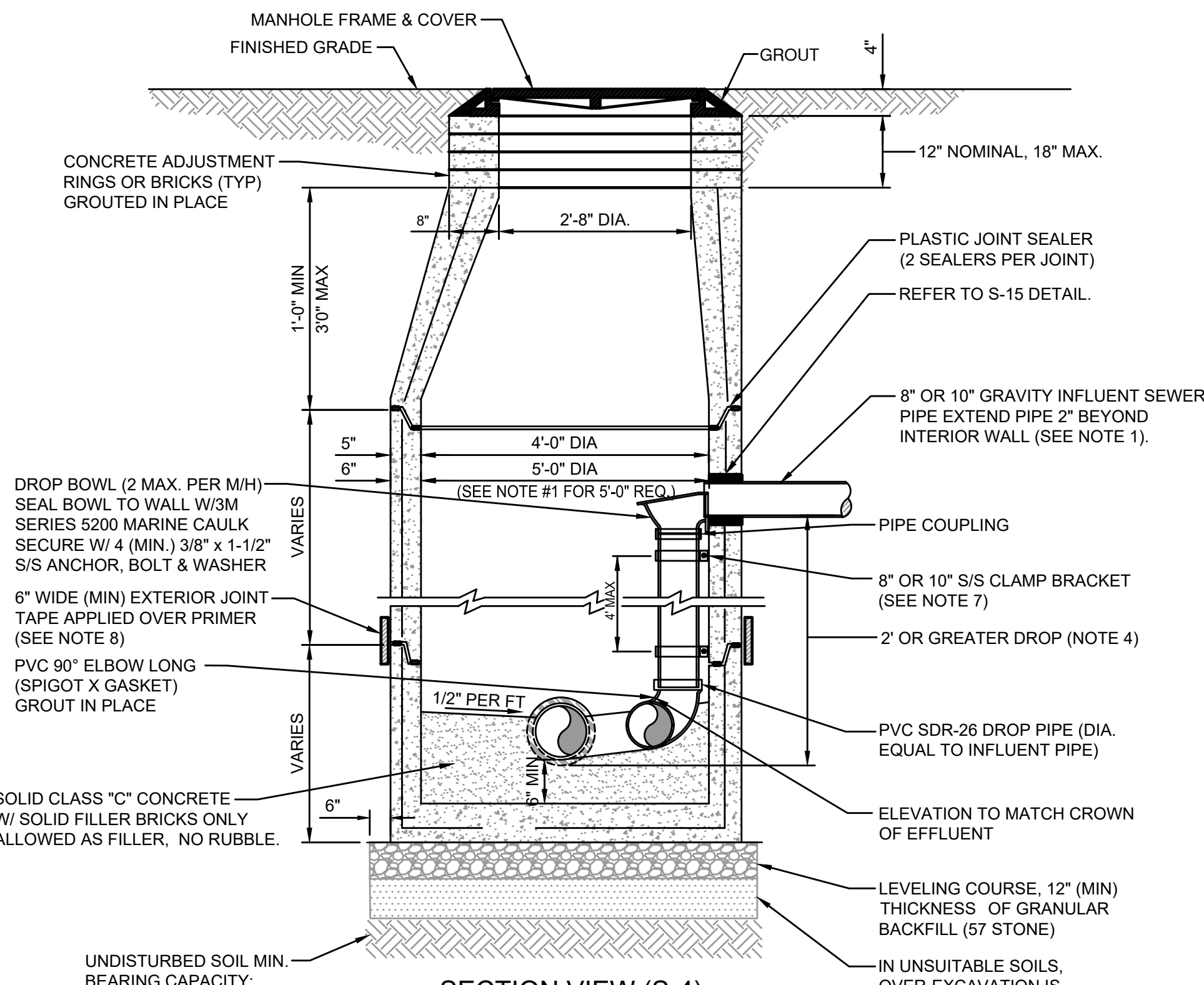
## SANITARY SEWER TYPE "A" MANHOLE 8"-21" SEWERS

JANUARY 2024

PLATES S-2, S-3



PLAN VIEW (S-5)  
(FOR SECTION VIEW SEE S-4)



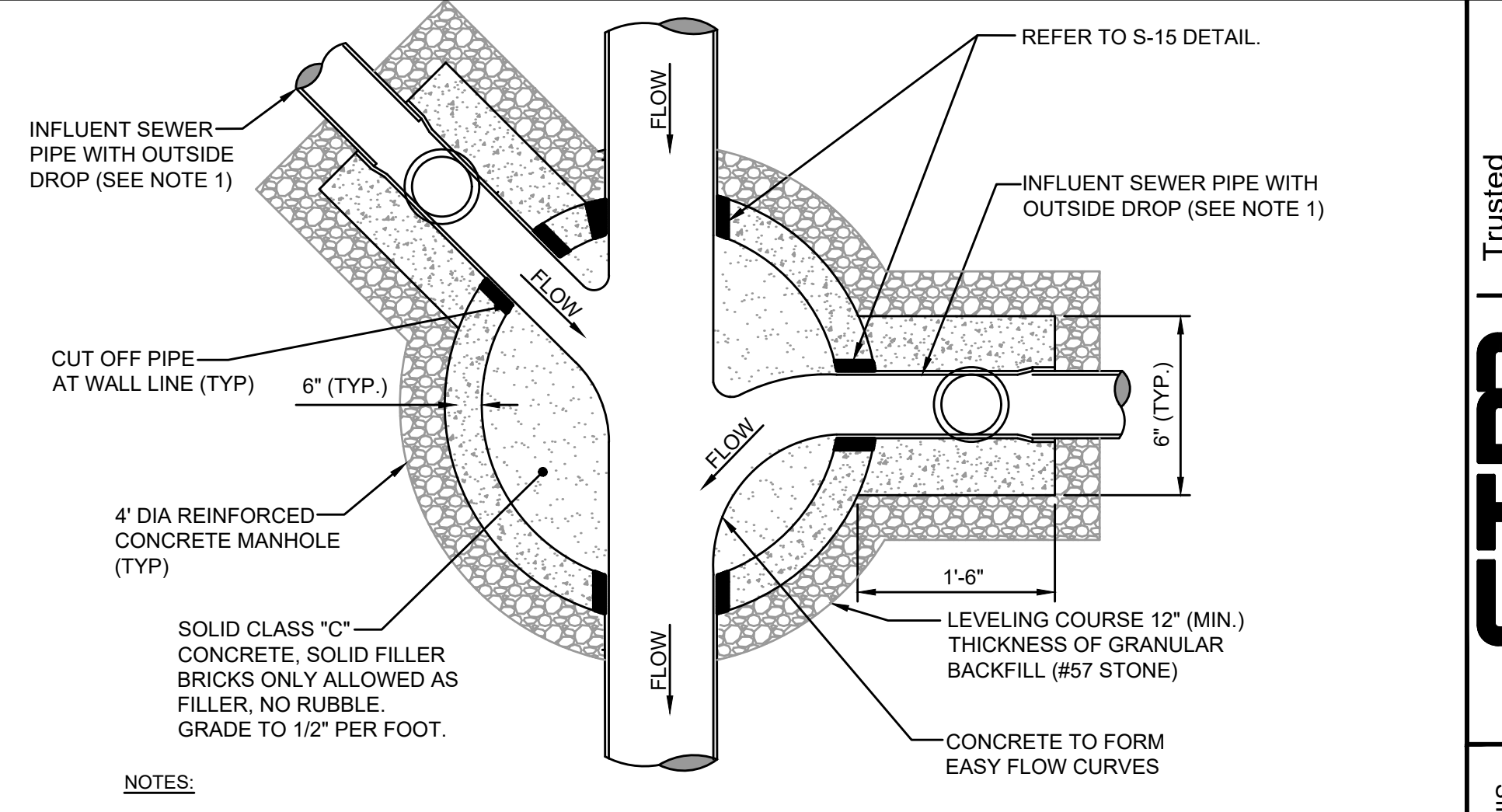
SECTION VIEW (S-4)  
(FOR PLAN VIEW SEE S-5)

- NOTES:
1. THIS ASSEMBLY IS FOR 8" OR 10" GRAVITY INFLUENT LINES ONLY. NO DROPS ALLOWED FOR FORCE MAINS. MAXIMUM OF 2 INSIDE DROP BOWLS PER MANHOLE. A 5'-0" DIA. MANHOLE (6" THICK WALLS) IS REQUIRED IF TWO INSIDE DROPS ARE CONSTRUCTED WITH ONE OR BOTH BEING 10" SIZE. DROP BOWL BY RELINER OR APPROVED EQUAL REQUIRED. THE INSIDE DROP FOR AN 8" HIGH-LINE SHALL BE CONSTRUCTED SIMILAR TO ABOVE (SEE PLATE S-5).
  2. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
  3. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF ADJUSTMENT RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
  4. TYPE "B" MANHOLE MUST BE USED FOR 2' OR GREATER INFLUENT PIPE DROPS.
  5. THE DROP BOWL ASSEMBLY SHALL BE INSTALLED PRIOR TO APPLICATION OF SPECIALTY LINING MATERIAL.
  6. A TYPE "D" MANHOLE SHALL BE UTILIZED WHEN THREE OR MORE (2' OR GREATER) DROPS ARE INVOLVED OR WHEN INFLUENT PIPES AREA LARGER THAN 10" IN SIZE.
  7. ADJUSTABLE CLAMPING BRACKET (MIN. 2 PER DROP BOWL ASSY), 1-1/2" WIDE, 11 GA. W/ 3/8" DIA. 18-8 PINCH BOLTS AND NUTS. SECURE TO M/H WALL WITH (2) 3/8" X 1" BOLT, ANCHOR & WASHER PER BRACKET ASSY. ALL 304 OR 316 STAINLESS STEEL MATERIALS.
  8. SEAL ALL EXTERIOR JOINTS PER PLATE S-17.
  9. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (#57 STONE).

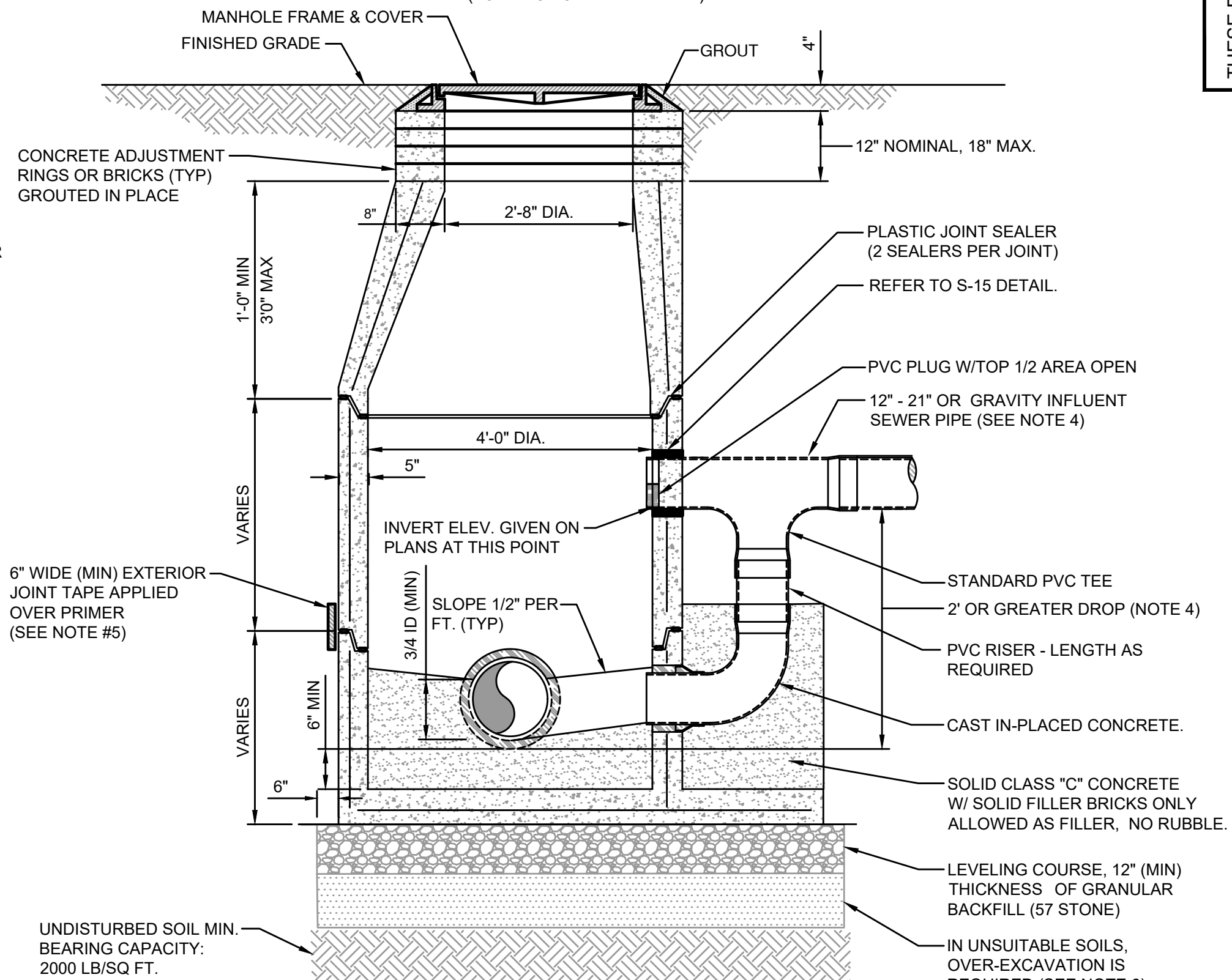
## SANITARY SEWER TYPE "B" MANHOLE 8"-10" SEWERS

JANUARY 2024

PLATES S-4, S-5



PLAN VIEW (S-8)  
(FOR SECTION VIEW SEE S-7)



SECTION VIEW (S-7)  
(FOR PLAN VIEW SEE S-8)

- NOTES:
1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
  2. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
  3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING SHALL BE OMITTED ON INSIDE.
  4. TYPE "D" MANHOLE SHALL BE USED FOR 12" OR LARGER INFLUENT PIPES W/ 2' OR GREATER INFLUENT DROP.
  5. SEAL ALL EXTERIOR JOINTS PER PLATE S-17.
  6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (#57 STONE).

## SANITARY SEWER TYPE "D" MANHOLE 12"-21" SEWERS

JANUARY 2024

PLATES S-7, S-8

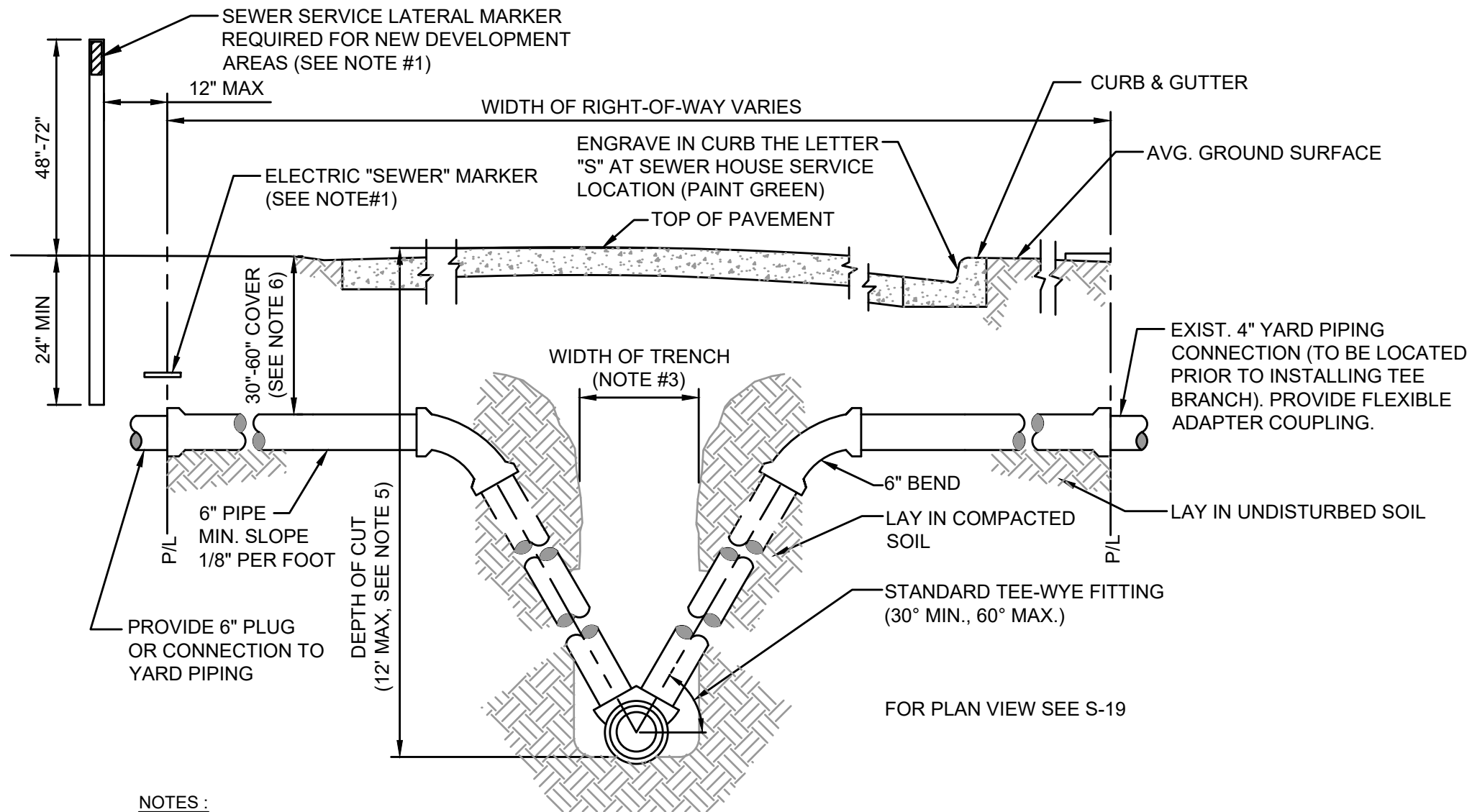
Trusted Advisors, Creating Community.		REVISIONS		DESIGN ENGINEER		FLORIDA REGISTRATION NO.	
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ENGLAND-THIMS & MILLER		2.		DATE:		DATE:	
		1.					
THESE DETAILS AS SHOWN ON THIS DRAWING ARE BY THE J.E.A. WE TAKE NO EXCEPTION TO THE DESIGN				JEA STANDARD SANITARY SEWER DETAILS		CVS AT WILDLIGHT	
PROJ. NO. 23-128		DATE: JANUARY 2024		SCALE: AS NOTED		NO. SHEETS 5	
SHEET NO. 1		DRAWING NO. 11H					







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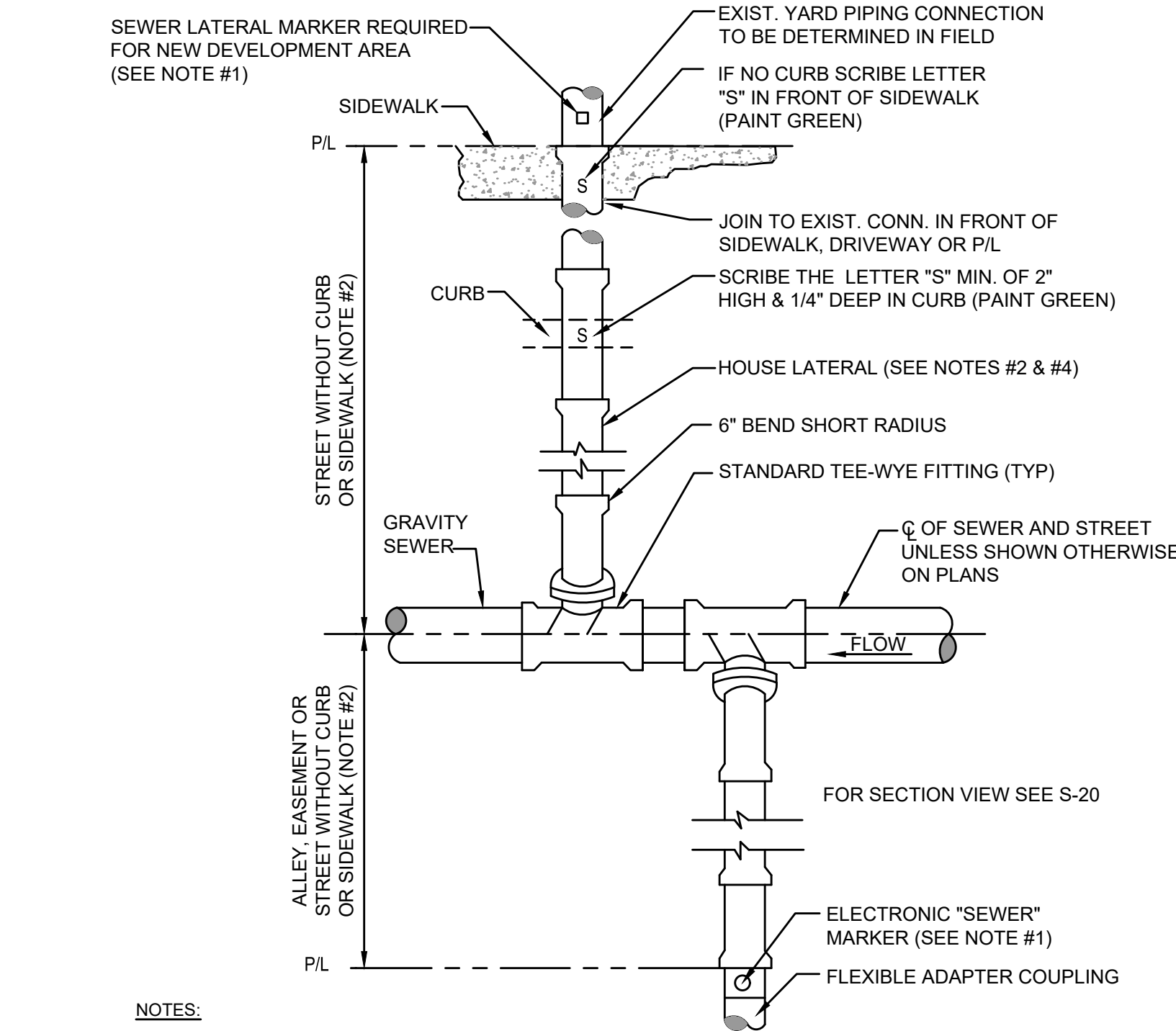
NOTES:

- TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE "NOT" IN USE. FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT" IN USE, A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JEA OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
- THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
- SEE MEASUREMENT AND PAYMENT SECTION FOR MAXIMUM PAYMENT WIDTHS.
- ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR-26.
- UNLESS APPROVED OTHERWISE BY A JEA O&M MANAGER, NO GRAVITY SEWER MAIN WITH SEWER SERVICE LATERALS SHALL BE CONSTRUCTED WITH A "DEPTH OF CUT" GREATER THAN 12 FEET.
- SEWER SERVICE LATERALS ASSOCIATED WITH GRAVITY SEWER MAINS WHICH ARE DEEPER THAN 12 FEET, MUST BE ROUTED TO A GRAVITY SEWER HIGH-LINE, A MANHOLE OR OTHER JEA APPROVED METHOD.
- THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER, WHERE POSSIBLE (CONTINGENT UPON MEETING THE CUSTOMER'S ON-SITE CONDITIONS AND LOCAL CONSTRUCTION STANDARDS). A LATERAL REQUIRING MORE THAN 60" OF COVER MUST BE APPROVED, PRIOR TO CONSTRUCTION, BY JEA.

HOUSE LATERAL - SECTION VIEW

JANUARY 2024

PLATE S-20



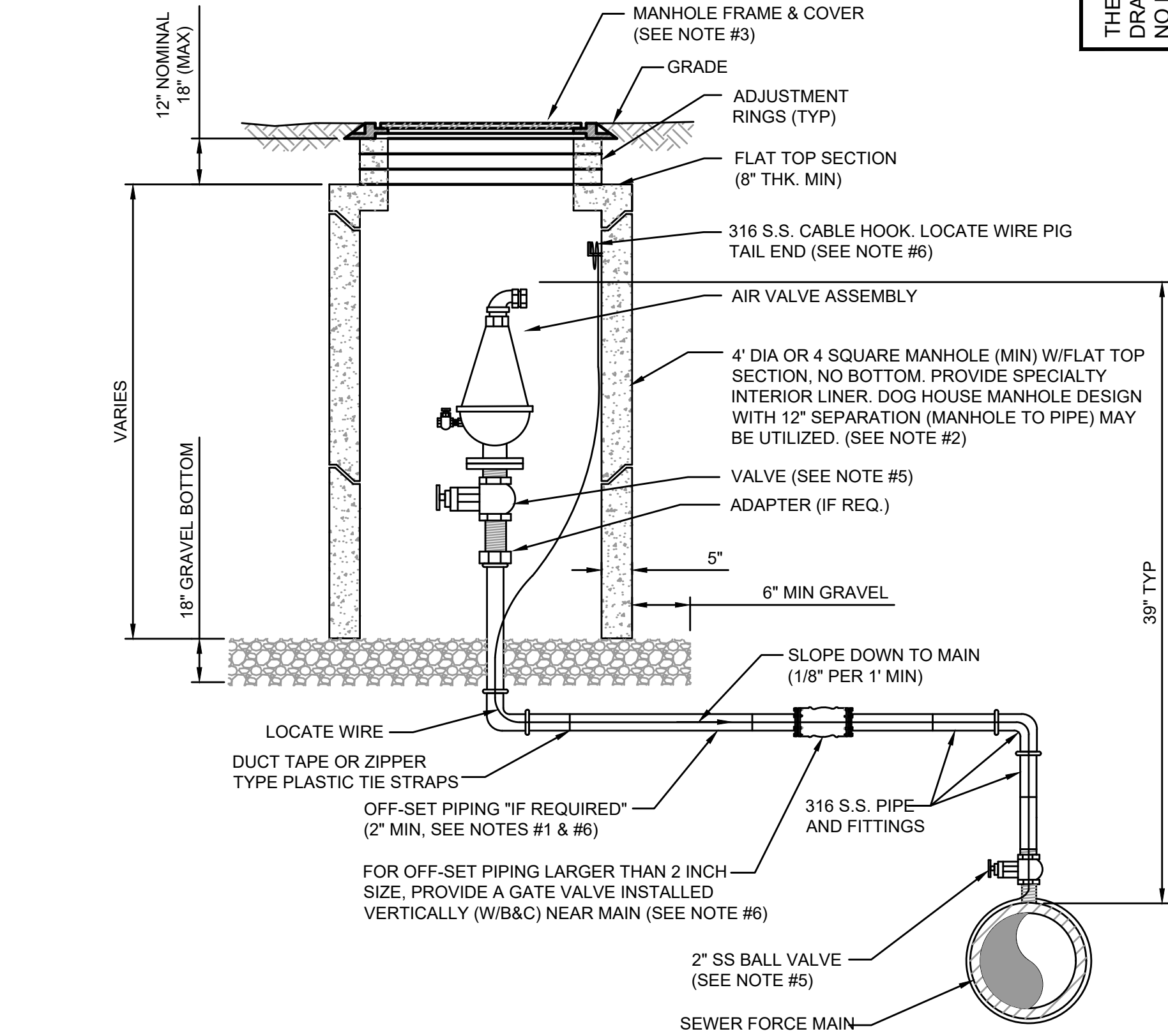
NOTES:

- TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE "NOT" IN USE. FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT" IN USE, A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JEA OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
- THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
- NO SEWER SERVICE CONNECTIONS PERMITTED ON GRAVITY SEWER PIPE WHICH ARE 16" AND LARGER.
- ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR-26.

HOUSE LATERAL - PLAN VIEW

JANUARY 2024

PLATE S-19



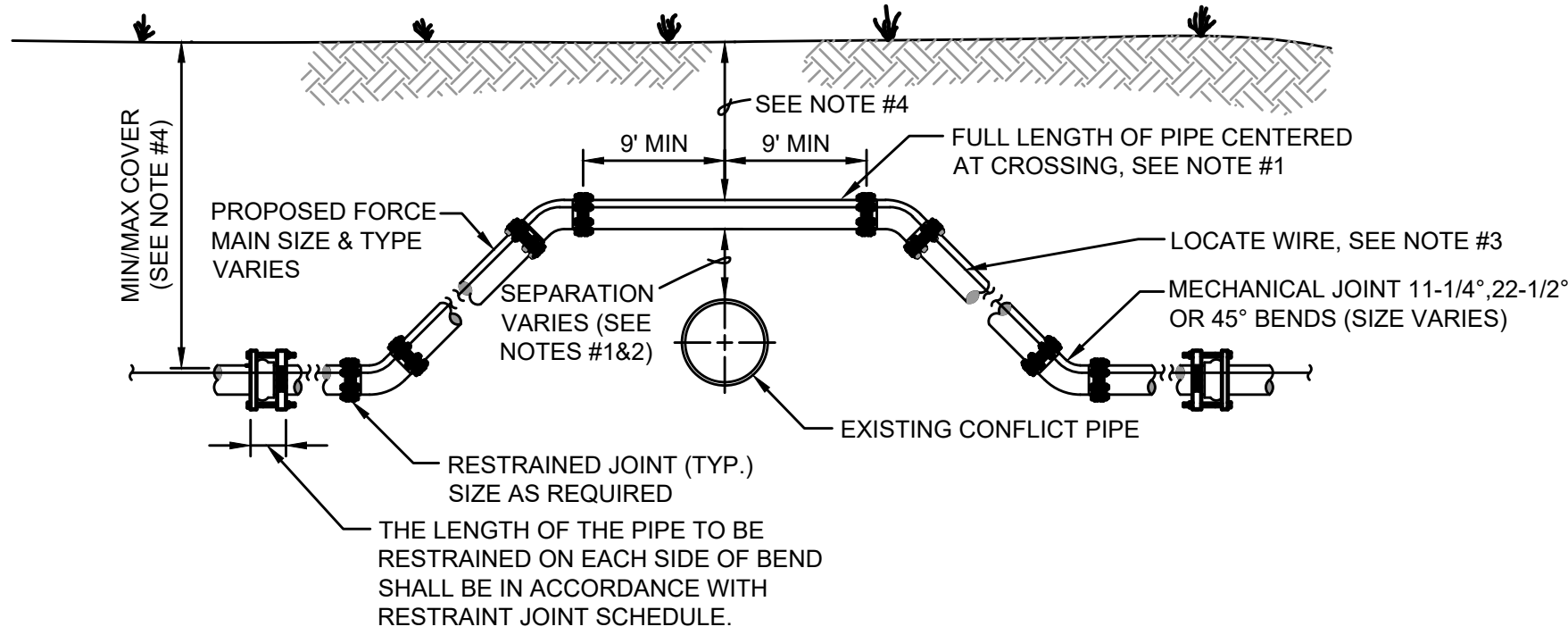
NOTES:

- THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER: PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER: PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
- THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
- FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
- FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2024

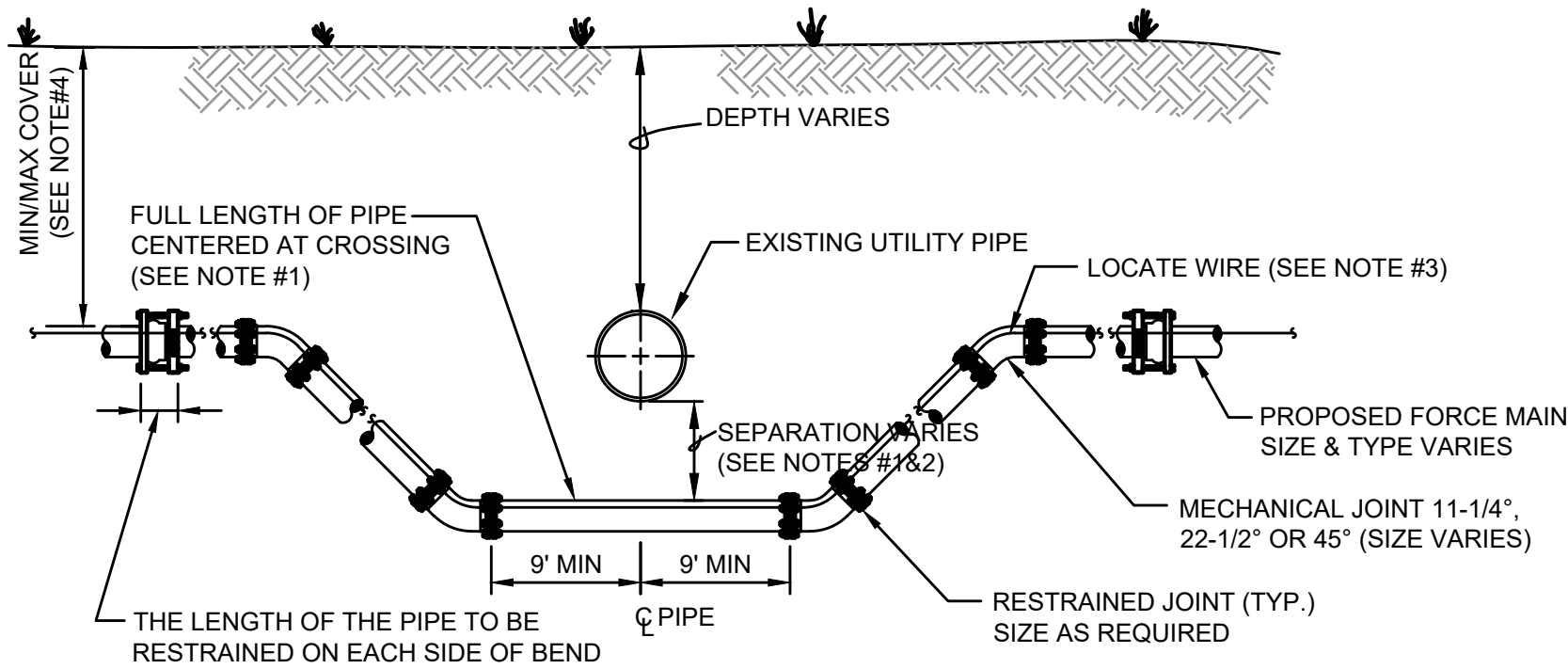
PLATE S-29



CASE "A" CROSSING

NOTES:

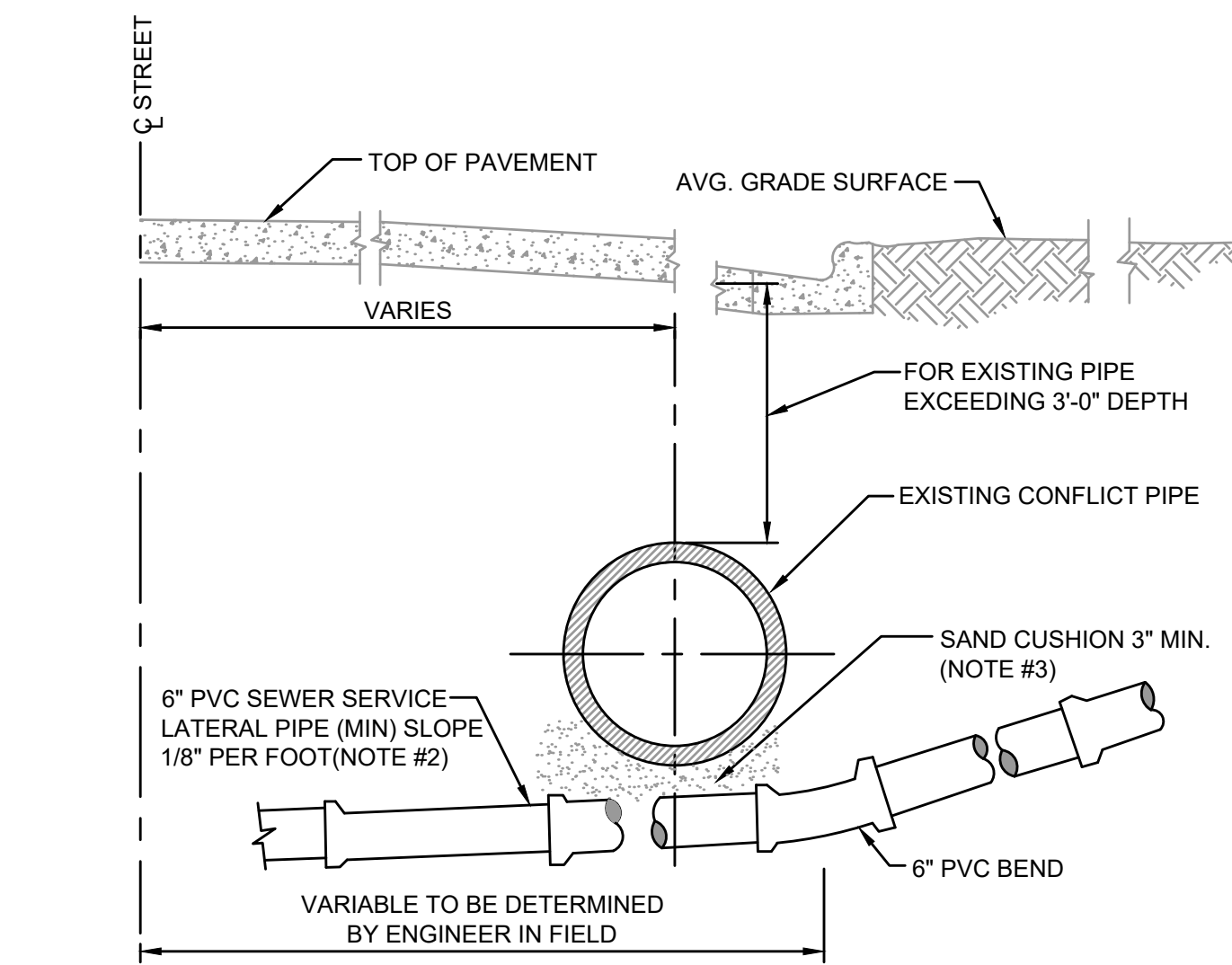
- IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
- FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
- LOCATING WIRE REQUIRED: SEE DETAIL S-49.
- THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS PRE-APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- THE SOILS BETWEEN THE MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.



CASE "B" CROSSING

NOTES:

- IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
- FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
- LOCATING WIRE REQUIRED: SEE DETAIL S-49.
- THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS PRE-APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- THE SOILS BETWEEN THE MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.



NOTES:

- ALTERNATE GRADIENT FOR 6 INCH LATERAL SEWERS AT CONFLICTS WITH EXISTING UTILITIES.
- FLATTER SLOPE MUST BE PRE-APPROVED BY JEA O&M MANAGER (ONLY) PRIOR TO CONSTRUCTION
- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.

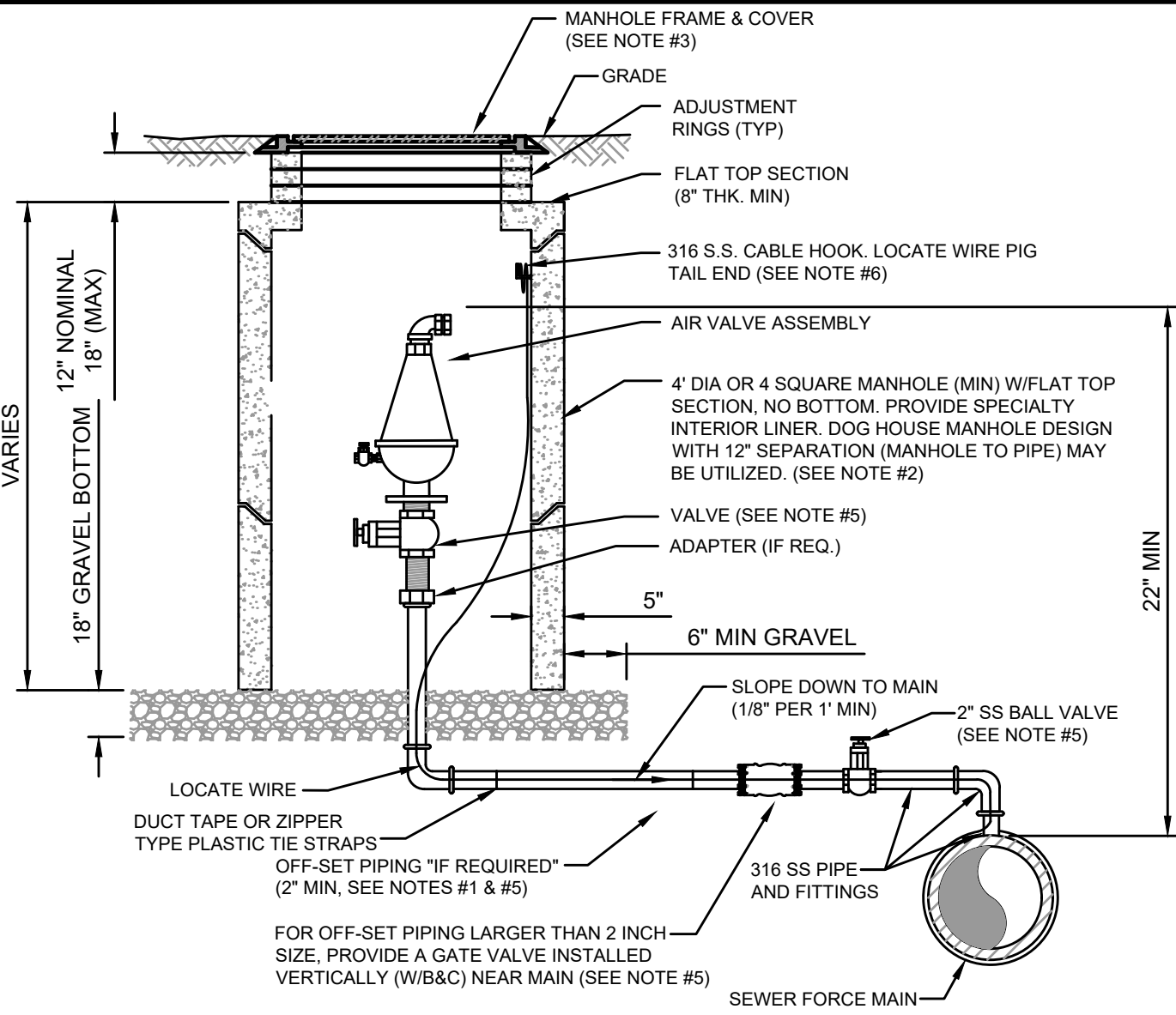
HOUSE LATERAL UNDER CONFLICT PIPE

JANUARY 2024

PLATE S-24

Trusted Advisors, Creating Community.				ETM				ENGLAND-THIMS & MILLER			
THESE DETAILS AS SHOWN ON THIS DRAWING ARE BY THE JEA. WE TAKE NO EXCEPTION TO THE DESIGN				DESIGN ENGINEER				FLORIDA REGISTRATION NO.			
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SHEET NO.				DATE:				JANUARY 2024			
3				NO. SHEETS				11			
DRAWING NO.				SHEET NO.				3			
11				DRAWING NO.				11			
REVISONS				BY				DATE			
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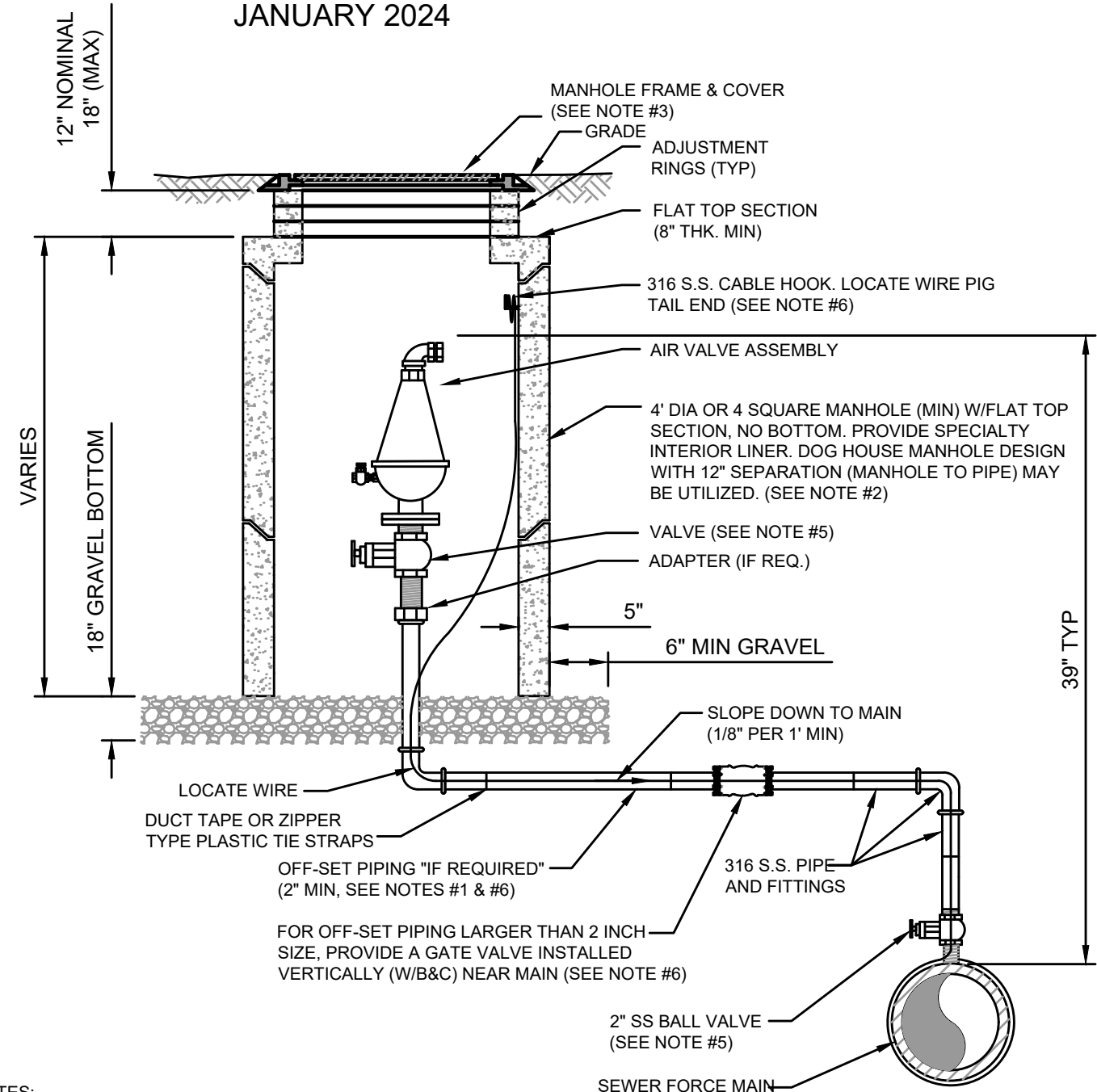


- NOTES:**
1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER: PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER: PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
  2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
  3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
  4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
  5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

## OPTIONAL LOW PROFILE AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2024

PLATE S-29A

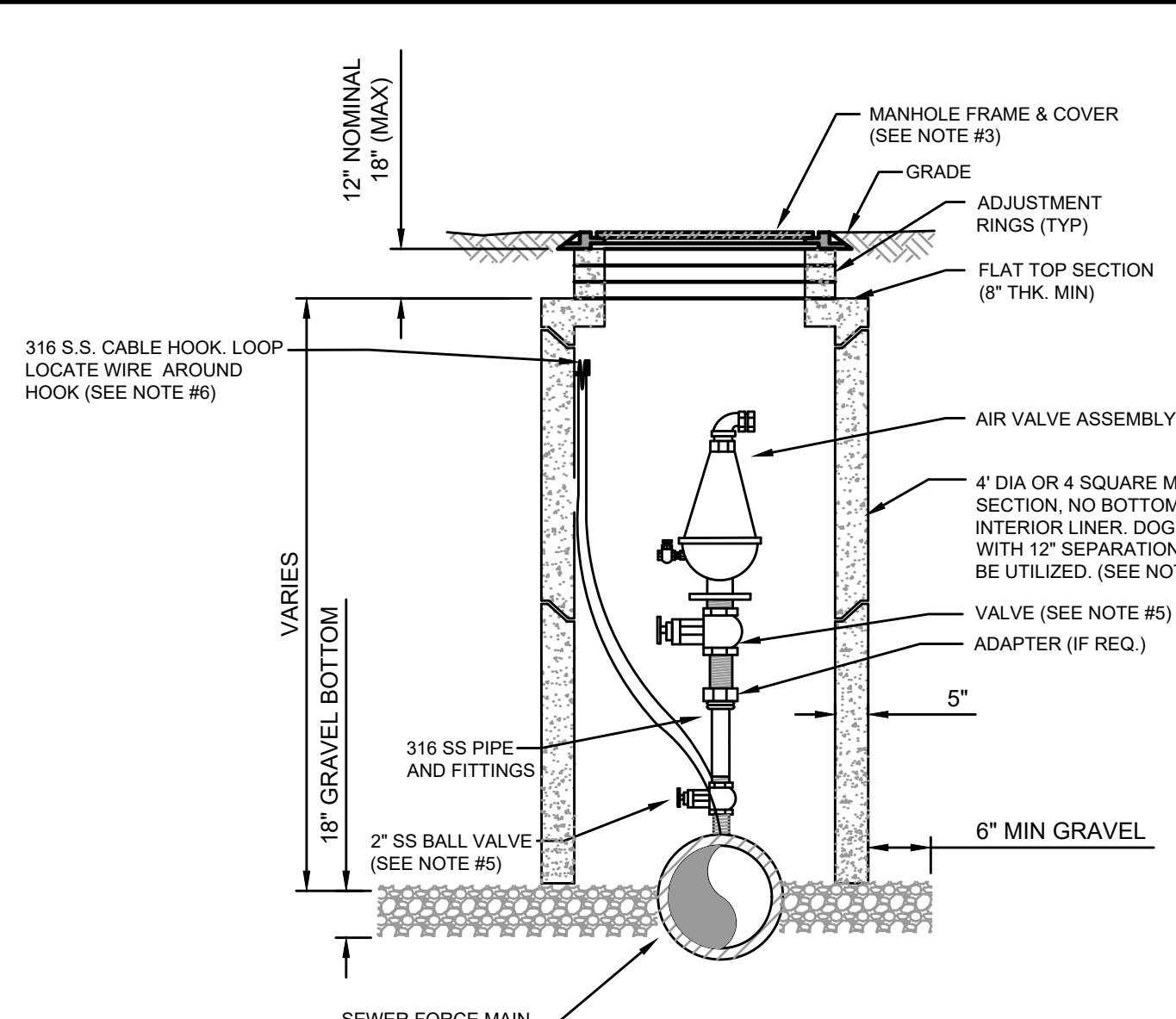


- NOTES:**
1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER: PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER: PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
  2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
  3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
  4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
  5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

## AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2024

PLATE S-29

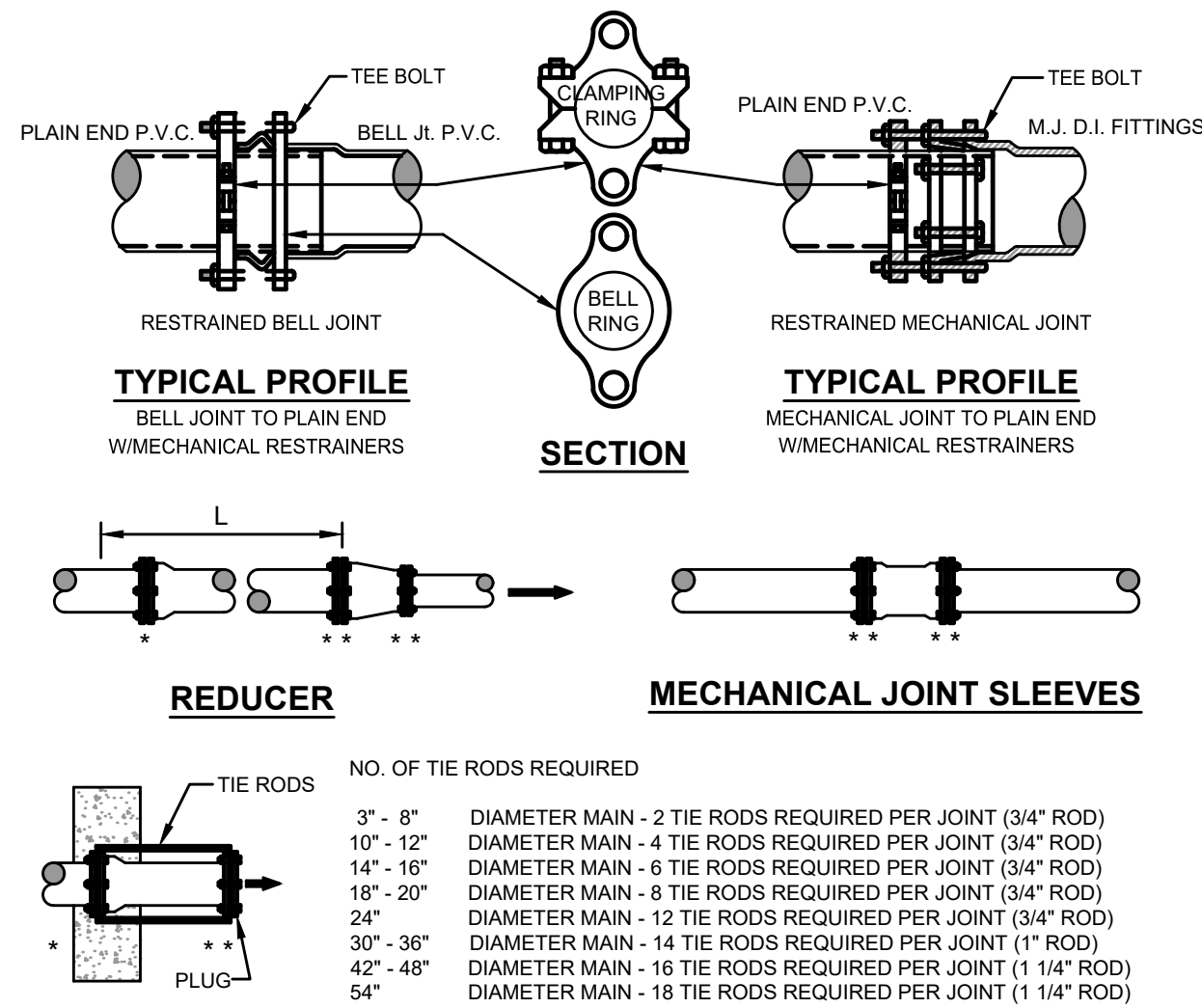


- NOTES:**
1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS).
  2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
  3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
  4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
  5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

## AIR VALVE ASSEMBLY INSIDE MANHOLE IN ROW

JANUARY 2024

PLATE S-29B



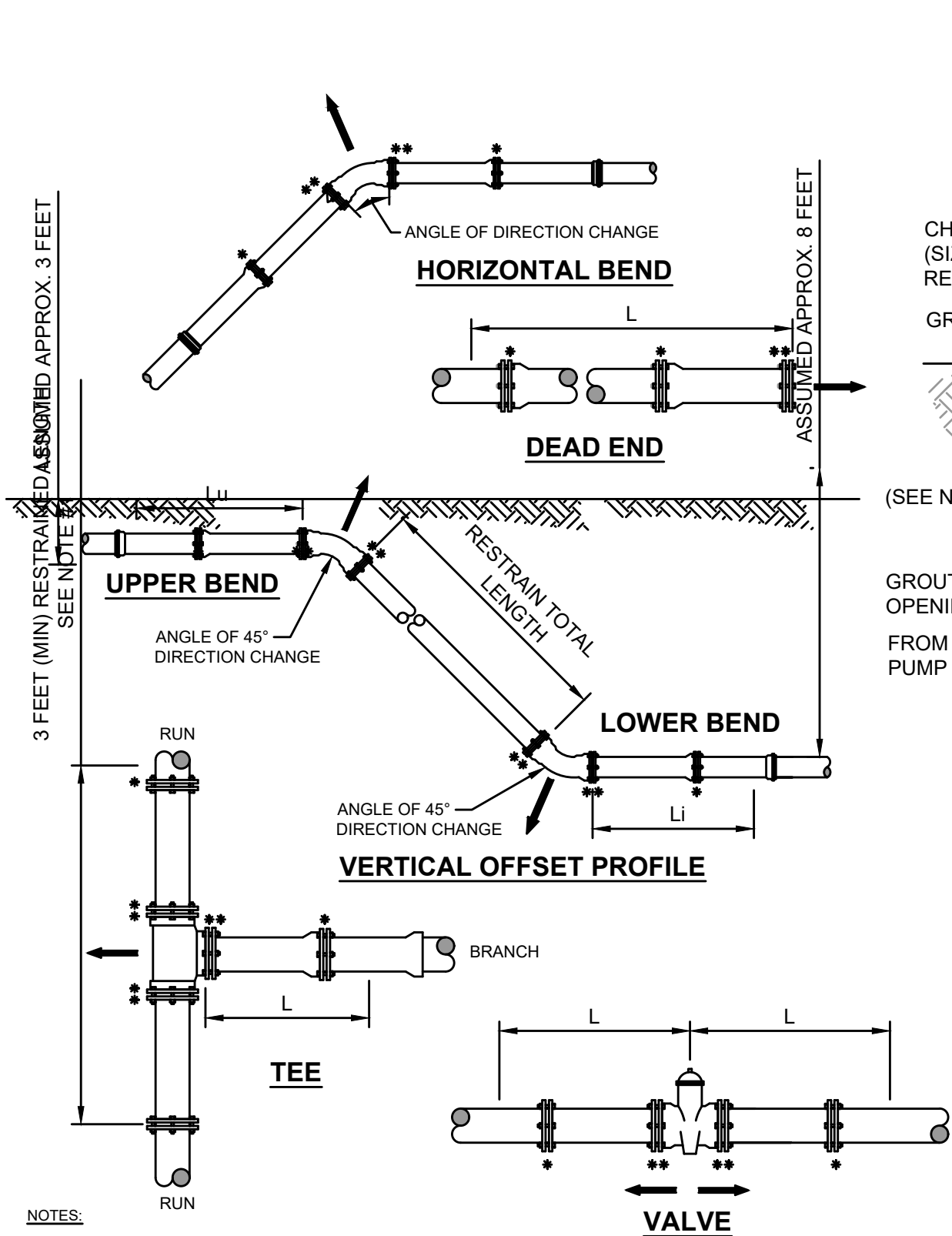
GENERAL NOTE:

1. PAY ITEM \*\*\* DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM \*\*\*\* DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. ——— INDICATES DIRECTION OF THRUST FORCE.

## MECHANICAL RESTRAINT DETAILS - I

JANUARY 2024

PLATE S-38C



**NOTES:**

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 6 FEET (MIN). THE PROJECT ENGINEER CAN INCREASE THIS LENGTH TO REDUCE THE NUMBER OF RESTRAINS REQUIRED. ANY CHANGES TO THIS TABLE MUST BE SUBMITTED TO JEA FOR APPROVAL.
2. PAY ITEM \*\*\* DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
3. PAY ITEM \*\*\*\*\* DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

## MECHANICAL RESTRAINT DETAILS - II

JANUARY 2024

PLATE S-38D

LENGTH (L) TO BE RESTRAINED										(SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)									
NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS					VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS		REDUCERS		TEES SEE NOTE 5							
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	UPPER L (FT.)	LOWER L (FT.)		SIZE (IN.)	L (FT.)	RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)					
4	21	9	5	3	17	3	47			6x4	34	4	4	F.O.					
6	30	13	6	3	23	4	66			8x6	36	4	6	F.O.					
8	38	16	8	4	30	6	86			8x4	62	8	4 < LESS	F.O.					
10	45	19	9	5	36	7	103			10x8	35	10	6 < LESS	F.O.					
12	53	22	11	6	43	8	121			10x6	63	12	8 < LESS	F.O.					
14	61	26	13	6	50	9	140			12x8	64	16	10 < LESS	F.O.					
16	66	28	14	7	55	10	154			16x12	66	20	12 < LESS	F.O.					
18	73	30	15	8	60	11	170			16x10	92	24	16 < LESS	F.O.					
20	79	33	16	8	66	12	186			20x18	35	30	20 < LESS	F.O.					
24	79	33	16	8	77	15	185			20x16	66	36	24 < LESS	F.O.					
30	93	39	19	10	97	17	222			24x20	56	42	30 < LESS	F.O.					
36	106	39	21	11	107	20	257			24x18	80	48	36 < LESS	F.O.					
42	117	49	24	12	120	24	289			24x16	101	54	42 < LESS	F.O.					
48	144	53	26	13	133	26	321			30x24	78	60	48 < LESS	F.O.					

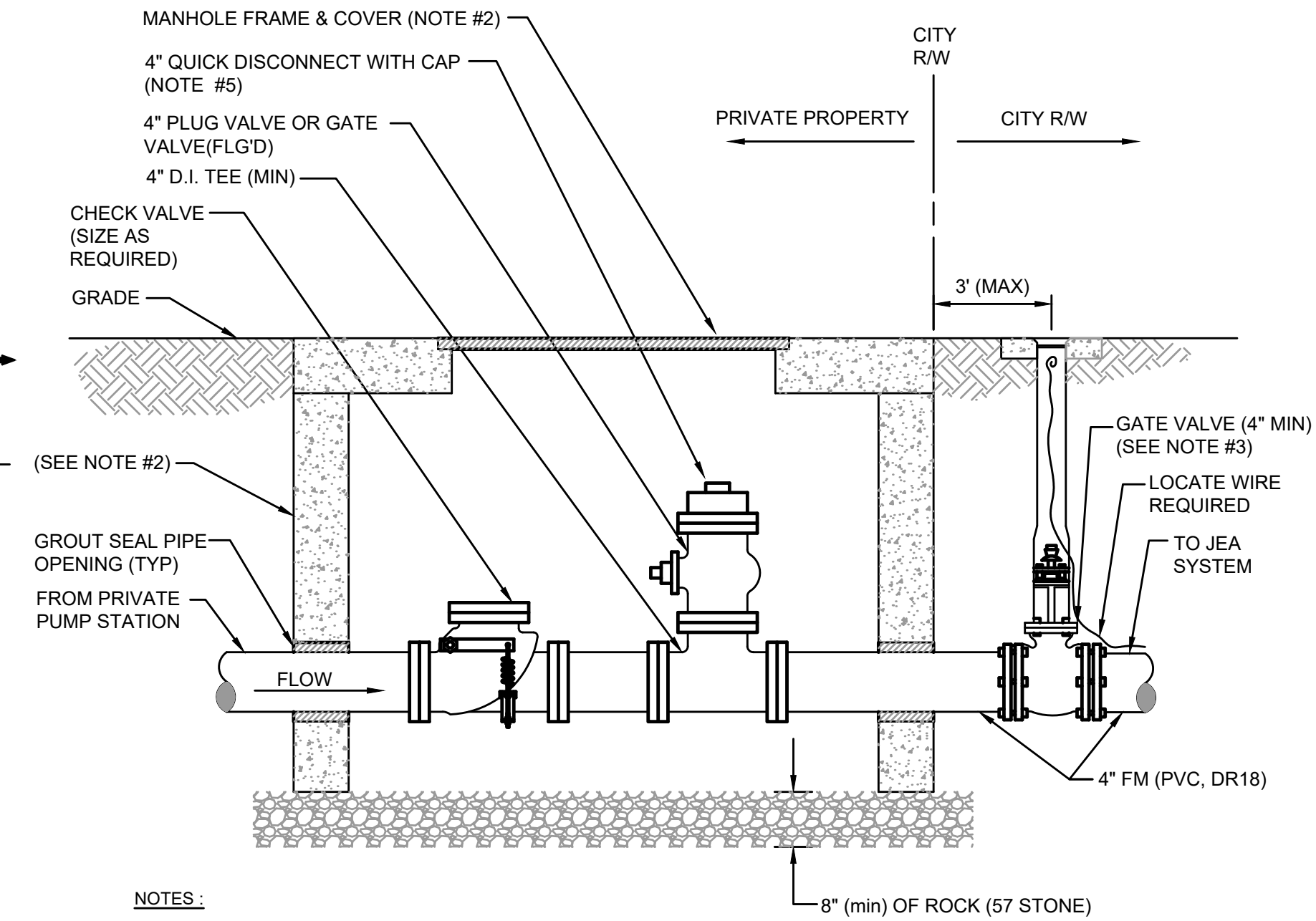
PVC PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, LU IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL, LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE 'BRANCH' LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
7. THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 26 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

## PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2024

PLATE S-38A



**NOTES:**

1. SEWER PUMP-OUT BOX SHALL BE CONSTRUCTED ON PRIVATE PROPERTY AND LOCATED AT THE R/W LINE. THE PREFERRED CONSTRUCTION LAYOUT IS SHOWN ABOVE.
2. ASSEMBLY TO BE ENCLOSED WITHIN A 48"x48" (MIN) PRECAST CONCRETE BOX WITH OPEN BOTTOM W/H-20 TRAFFIC LOADING COVER OR TYPE "C" MANHOLE OPEN BOTTOM WITH FRAME AND COVER (NON-JEA LOGO TYPE COVER).
3. A JEA APPROVED GATE VALVE (4" MIN) SHALL BE PROVIDED AT THE R/W LINE FOR ALL FORCE MAIN PIPING WHICH EXCEEDS 15' LINEAR FEET WITHIN THE CITY R/W AREA. THE GATE VALVE AT THE R/W LINE IS NOT REQUIRED WHERE THE CONNECTION (CONNECTION AT JEA MAIN) IS LOCATED ON THE SAME SIDE OF THE STREET AS THE PUMP-OUT BOX (SHORT-SIDE SERVICE) AND CONSIST OF 15 LINEAR FEET OR LESS WITHIN THE CITY R/W AREA.
4. NO CONNECTIONS PERMITTED INTO JEA FORCE MAINS WHICH ARE GREATER THAN 12" WITHOUT PRIOR JEA APPROVAL.
5. QUICK DISCONNECT WITH CAP SHALL BE ALUMINUM AND BE POSITIONED DIRECTLY UNDER MANHOLE LID FOR ACCESS.

## PRIVATE PUMP OUT ASSEMBLY

JANUARY 2024

PLATE S-46

Trusted  
Advisors,  
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**ETM**  
ENGLAND-THIMS & MILLER

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DRAWING ARE BY THE J.E.A. WE TAKE  
NO EXCEPTION TO THE DESIGN

DESIGNER	DRAWN BY	CHECKED BY	DATE

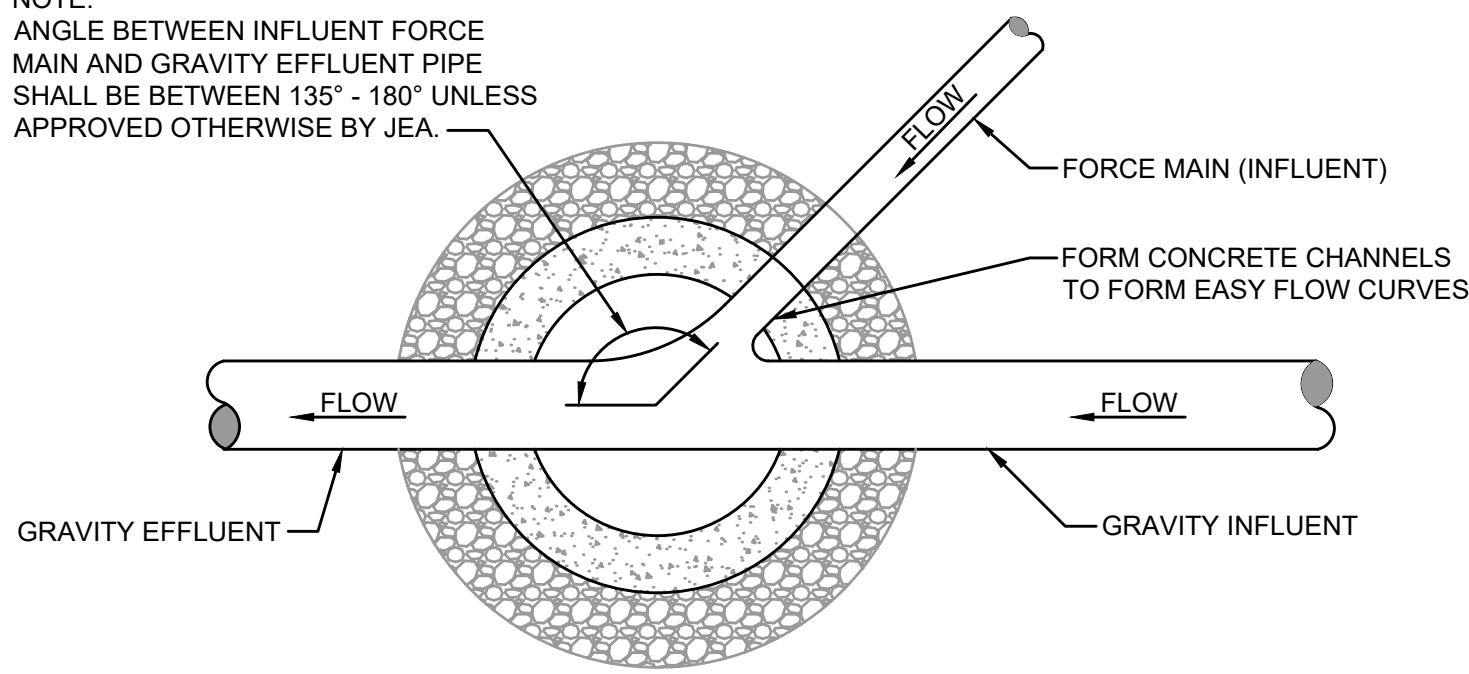
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4.			
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1.			

JEA STANDARD  
SANITARY SEWER DETAILS  
CVS AT WILDLIGHT

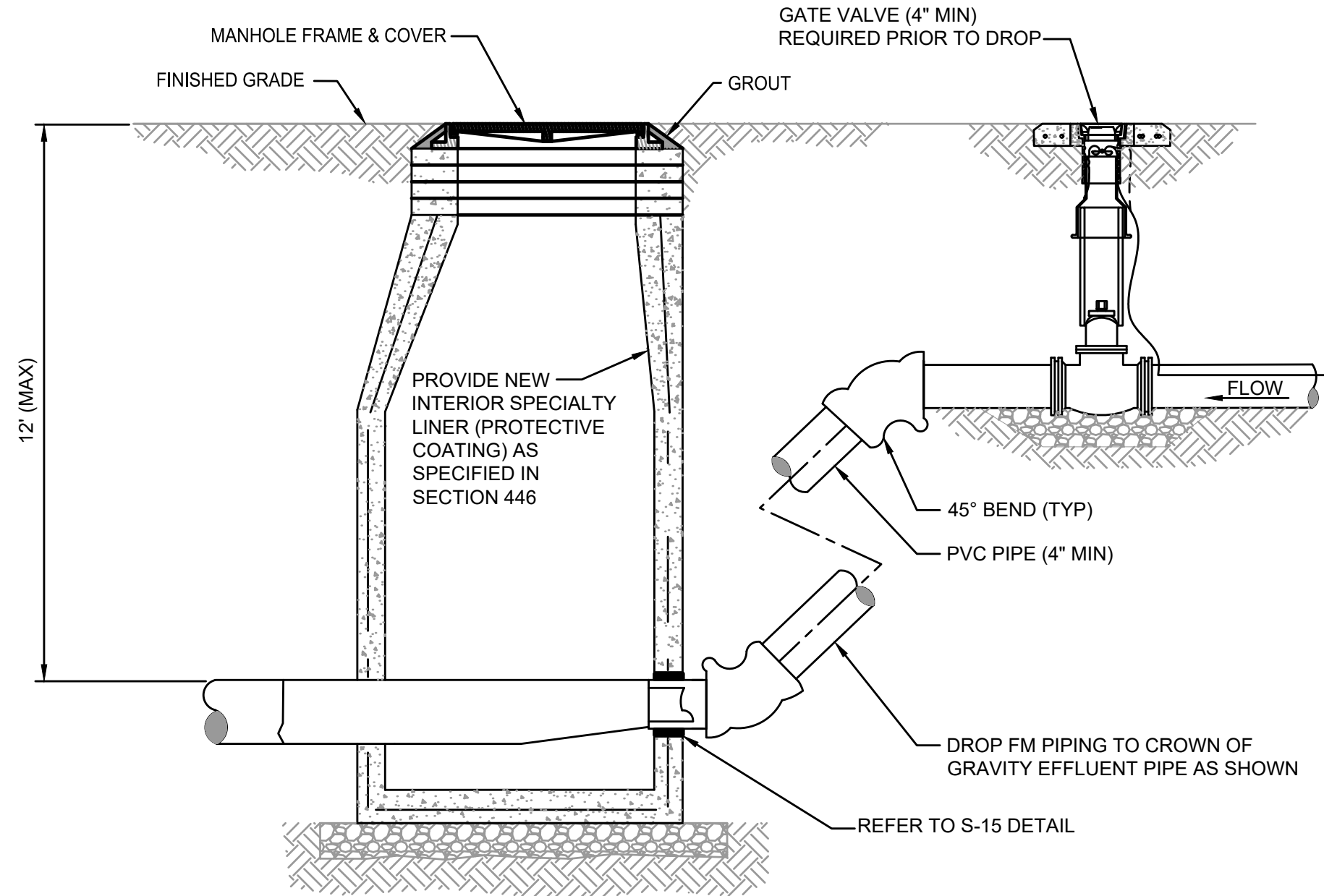
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NO. SHEETS 5	SHEET NO. 4	DRAWING NO. 11K



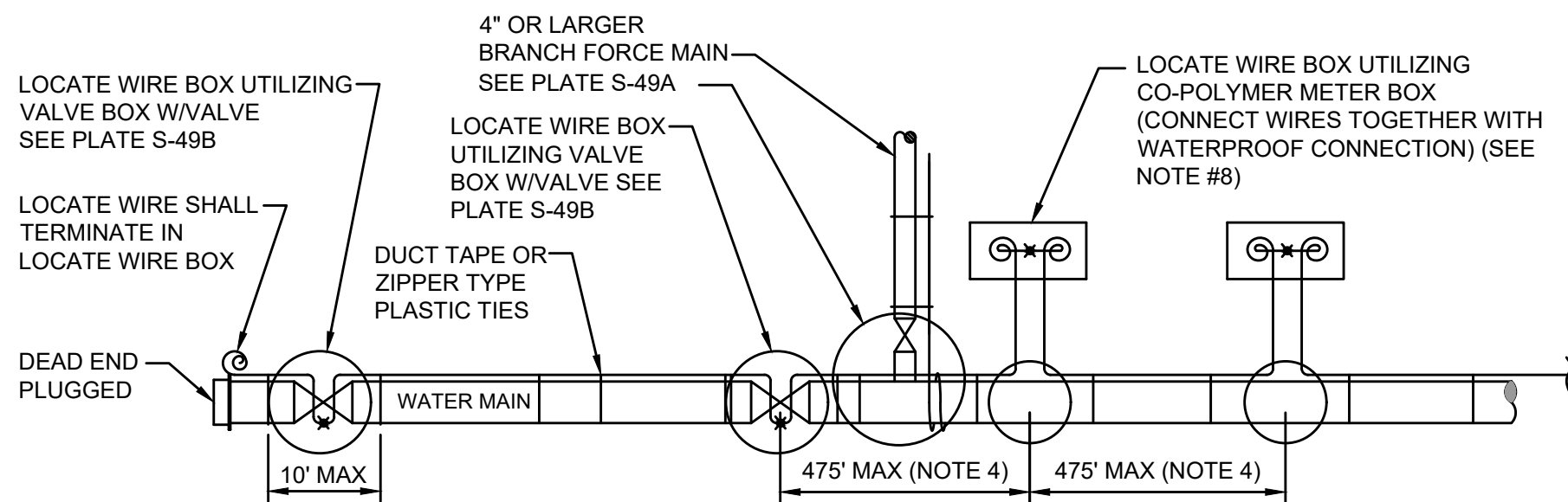
NOTE:  
ANGLE BETWEEN INFLUENT FORCE  
MAIN AND GRAVITY EFFLUENT PIPE  
SHALL BE BETWEEN 135° - 180° UNLESS  
APPROVED OTHERWISE BY JEA.



PLAN



SECTION



LOCATE WIRE SYSTEM

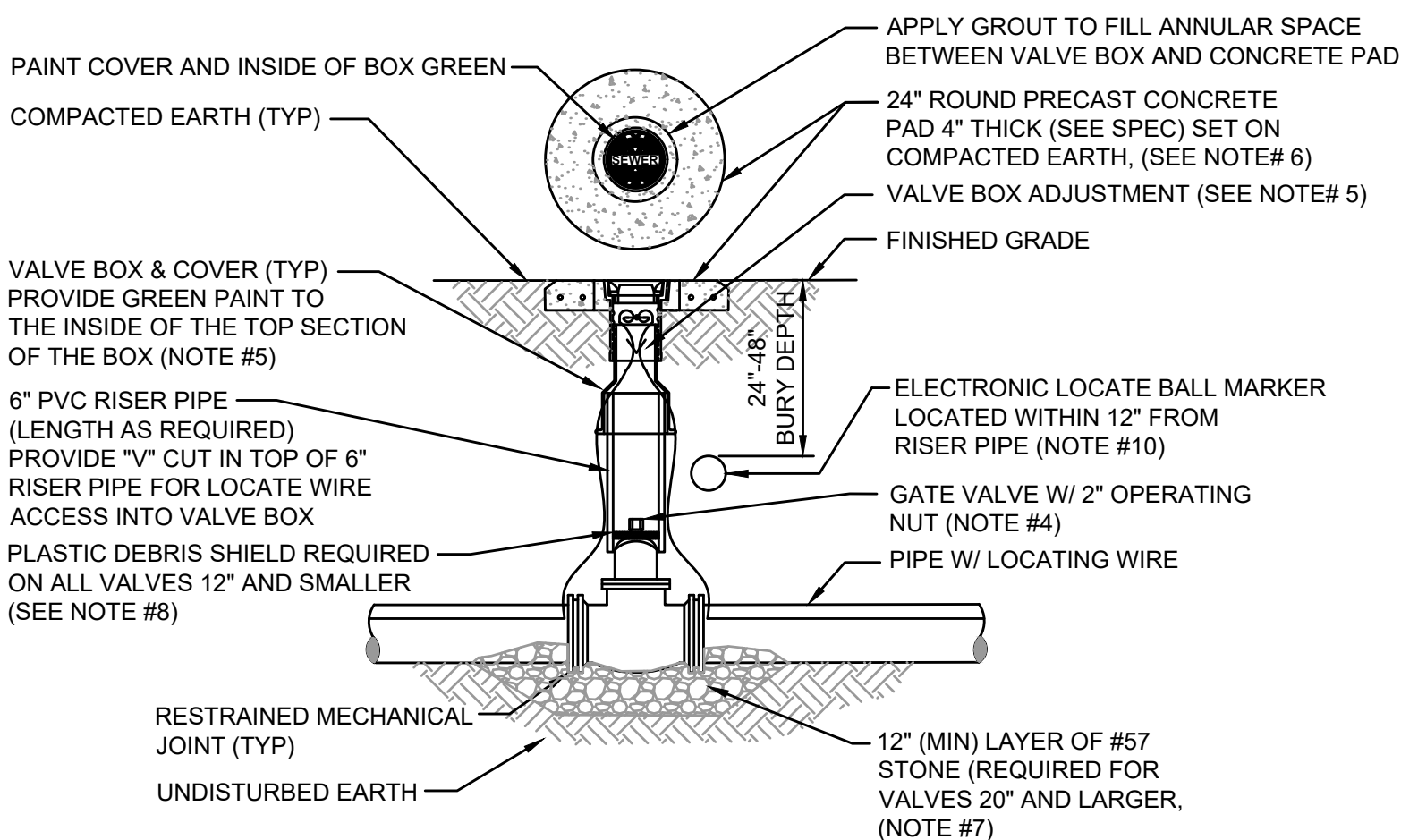
NOTES:

- LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON OR PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
- SECURE LOCATING WIRE TO PVC FORCE MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
- THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
- LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX ( WITH A VALVE ) OR A METER BOX ( IF NO VALVE ) AT 475' INTERVALS. SEE DETAIL PLATE S-49B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
- LOCATING WIRE SHALL BE 12 GAUGE COPPER WIRE WITH .03 INCHES (MINIMUM) HDPE INSULATION THICKNESS, 0.141 INCHES (MINIMUM) O.D. RATED BREAK LOAD 250LBS., UP RATED (DIRECT BURIAL), GREEN COLOR. FOR HDD INSTALLATIONS, THE LOCATE WIRE SHALL BE COPPER CODED STEEL AS SPECIFIED IN SPEC. SECTION 750.
- ✕ INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B)
- ⊗ INDICATES A WIRE PIG-TAIL (24" LONG)
- AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
- FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR FORCE MAINS

JANUARY 2024

PLATE S-49



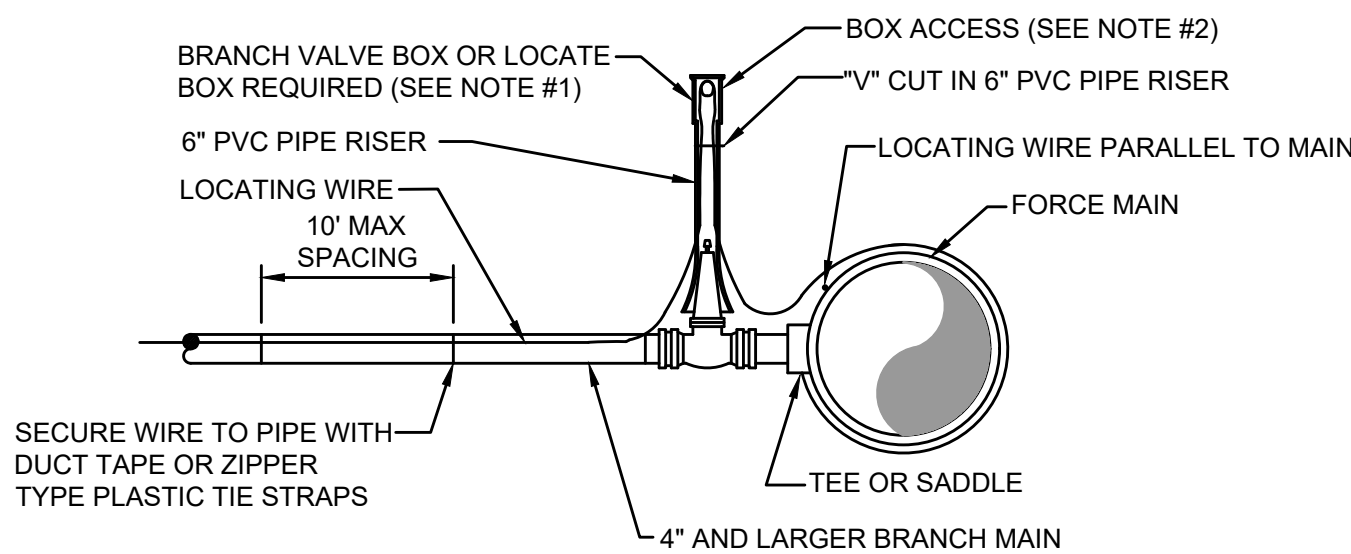
NOTES:

- FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
- LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAIL S-49).
- A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ (ASPHALT IF NO CURB) ADJACENT TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED GREEN.
- IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
- FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
- BRASS IDENTIFICATION TAG INDICATING "SEWER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A 1/2" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
- IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2- #4 REBAR AROUND PERIMETER, MAY BE USED.
- GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO 1/2 THE OVERALL HEIGHT OF THE VALVE.
- FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
- ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1404XR FOR SEWER).

SEWER VALVE DETAIL

JANUARY 2024

PLATE S-30



BRANCH FORCE MAIN  
(4" AND LARGER SEWER MAIN)

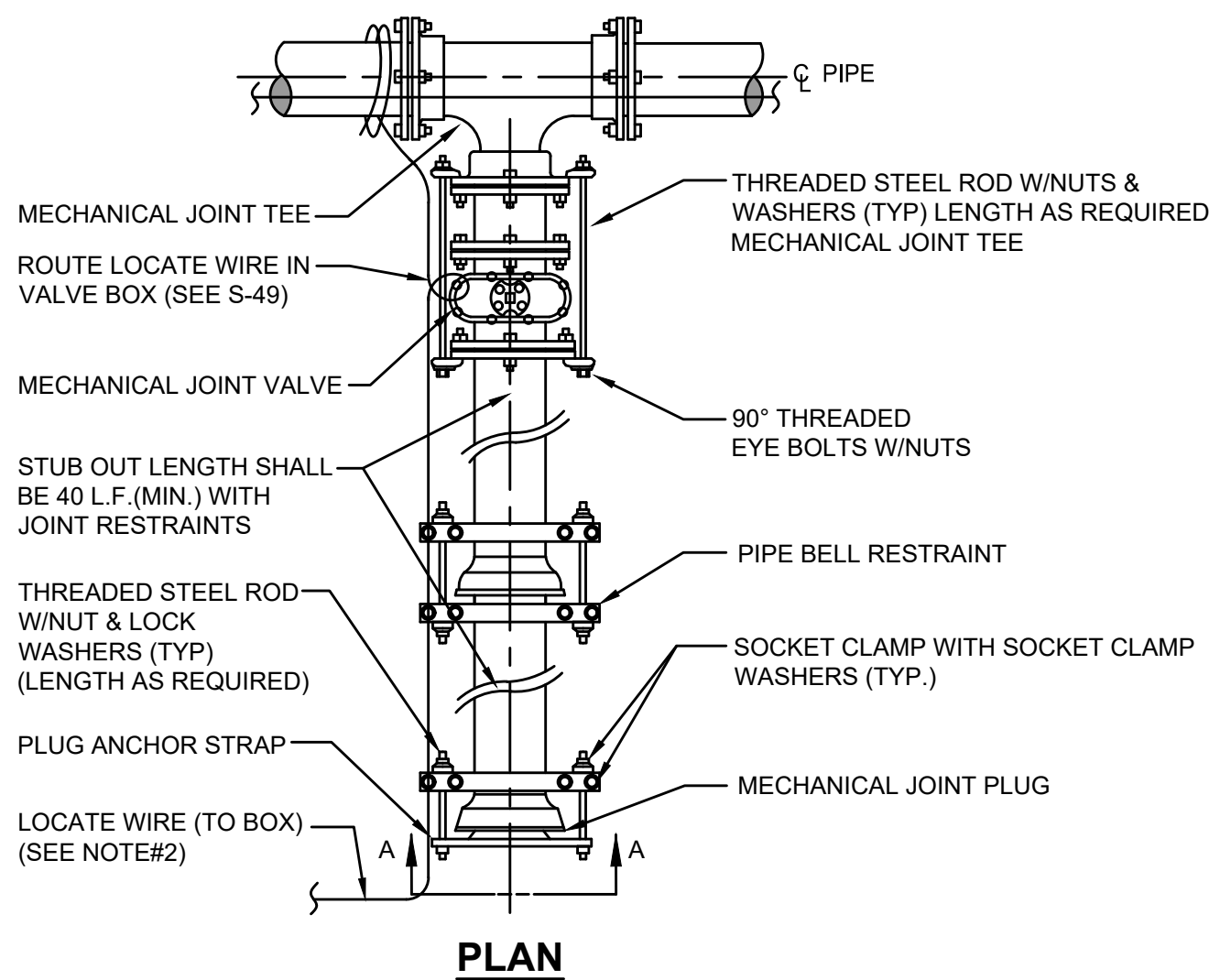
NOTE:

- NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
- LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30).
- LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT.
- ⊗ INDICATES A WIRE PIG-TAIL (4' LONG)

LOCATE WIRE FOR BRANCH MAIN

JANUARY 2024

PLATE S-49A



SECTION "A-A"

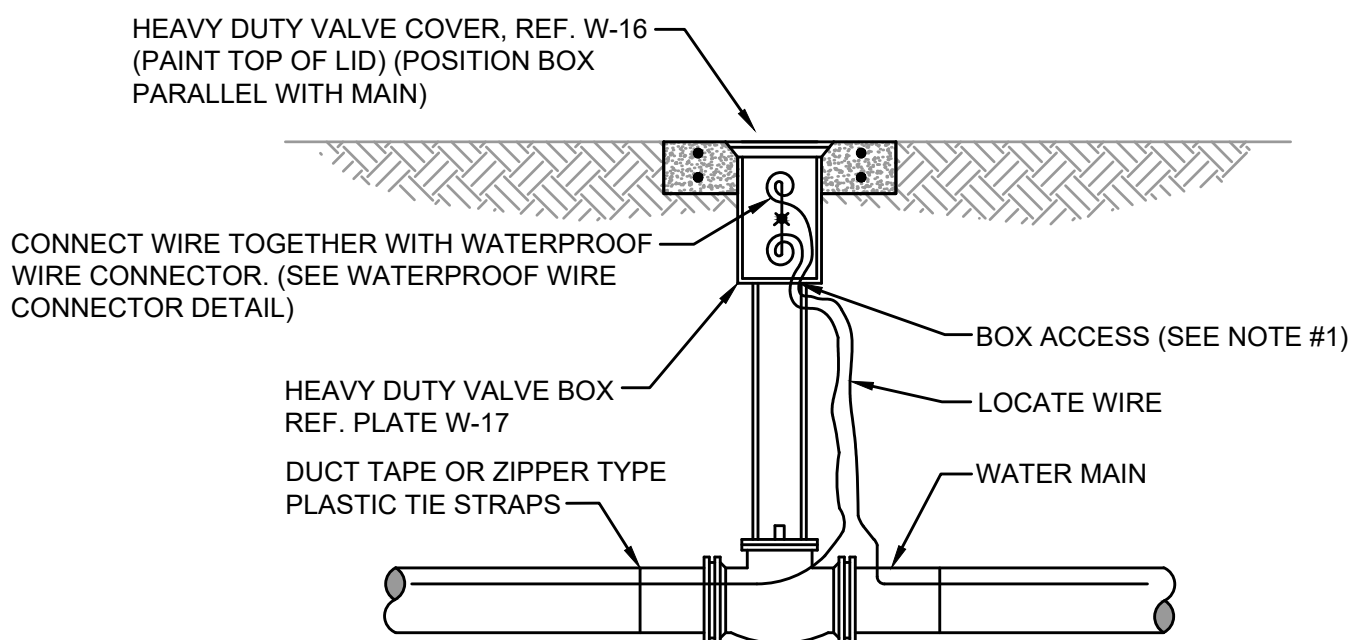
NOTES:

- IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
- LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
- NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:  
3" - 8" DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
10" - 12" DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
14" - 16" DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
18" - 20" DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
24" DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)  
30" - 36" DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)  
42" - 48" DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)  
54" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
- THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

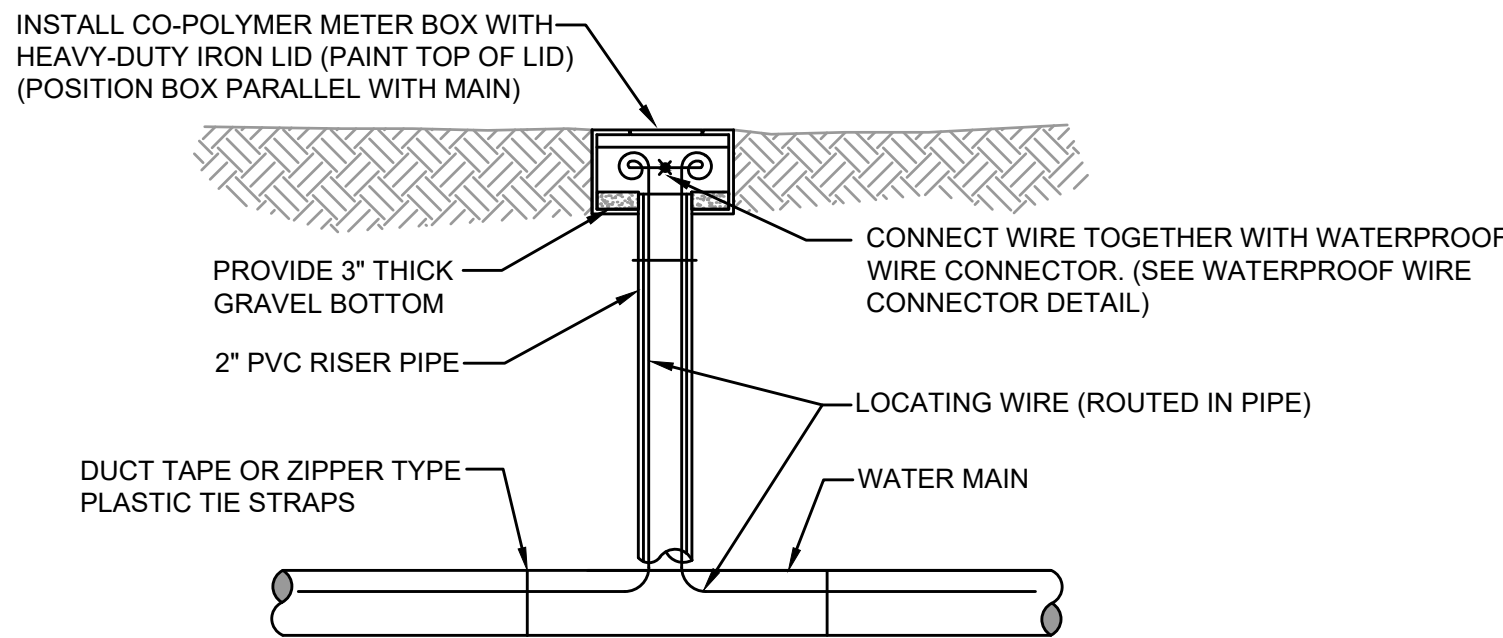
PLUGGED DEAD END USING  
MECHANICAL RESTRAINTS

JANUARY 2024

PLATE S-44



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

LOCATE WIRE BOX

JANUARY 2024

PLATE S-49B

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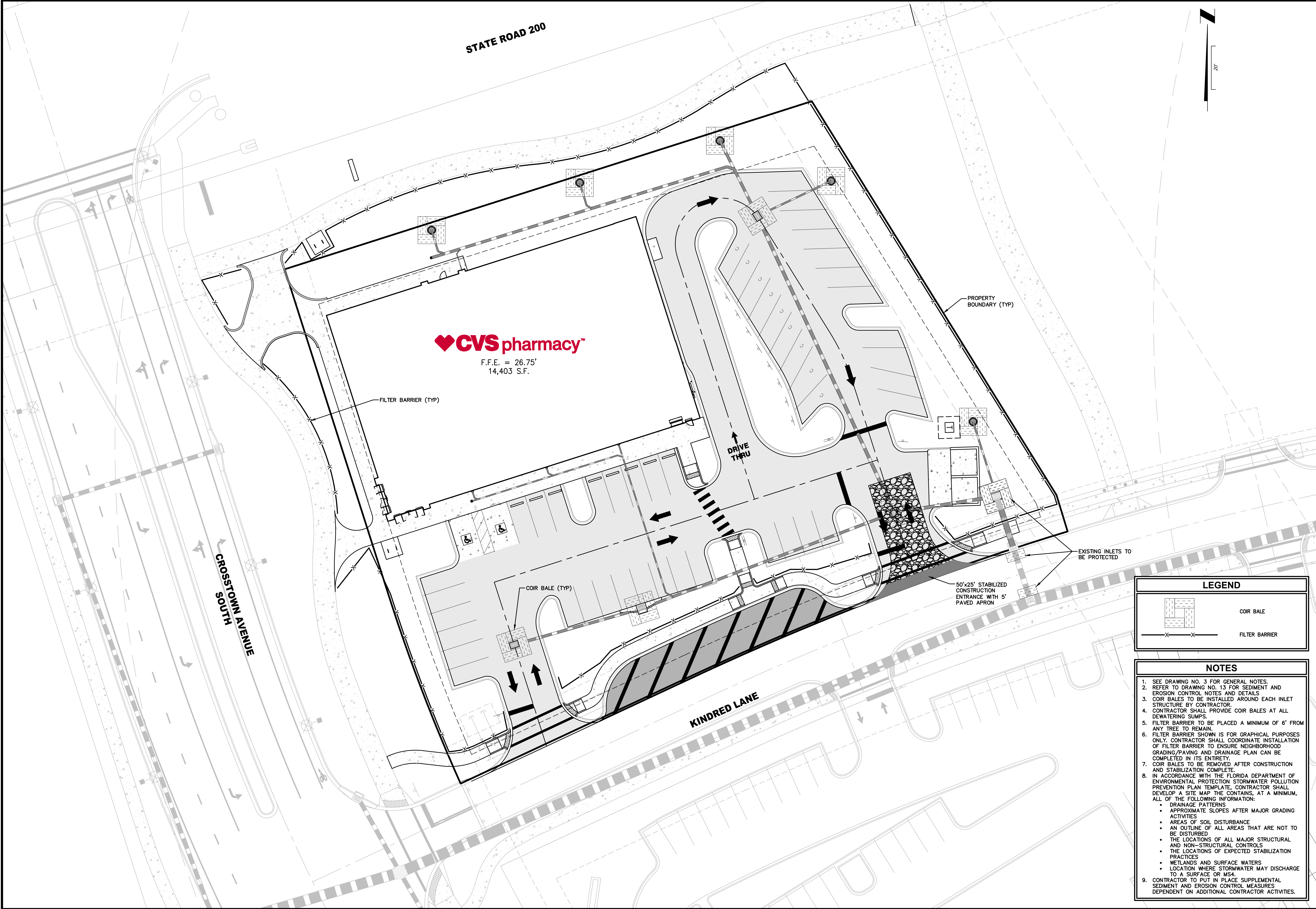
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JEA  
Building Community

JEA STANDARD  
SANITARY SEWER DETAILS  
CVS AT WILDLIGHT

PROJ. NO.	23-128	DATE	JANUARY 2024	SCALE	AS NOTED
NO. SHEETS	5	SHEET NO.	5	DRAWING NO.	---





**CVS pharmacy**

F.F.E. = 26.75'  
14,403 S.F.

FILTER BARRIER (TYP)

COIR BALE (TYP)

PROPERTY  
BOUNDARY (TYP)

DRIVE  
THRU

EXISTING INLETS TO  
BE PROTECTED

50'x25' STABILIZED  
CONSTRUCTION  
ENTRANCE WITH 5'  
PAVED APRON

KINDRED LANE

CROSSTOWN AVENUE

STATE ROAD 200

20'



**LEGEND**

	COIR BALE
	FILTER BARRIER

**NOTES**

- SEE DRAWING NO. 3 FOR GENERAL NOTES.
- REFER TO DRAWING NO. 13 FOR SEDIMENT AND EROSION CONTROL NOTES AND DETAILS.
- COIR BALES TO BE INSTALLED AROUND EACH INLET STRUCTURE BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE COIR BALES AT ALL DEWATERING SUMPS.
- FILTER BARRIER TO BE PLACED A MINIMUM OF 6' FROM ANY TREE TO REMAIN.
- FILTER BARRIER SHOWN IS FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE INSTALLATION OF FILTER BARRIER TO ENSURE NEIGHBORHOOD GRADING/PAVING AND DRAINAGE PLAN CAN BE COMPLETED IN ITS ENTIRETY.
- COIR BALES TO BE REMOVED AFTER CONSTRUCTION AND STABILIZATION COMPLETE.
- IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STORMWATER POLLUTION PREVENTION PLAN TEMPLATE, CONTRACTOR SHALL DEVELOP A SITE MAP THAT CONTAINS, AT A MINIMUM, ALL OF THE FOLLOWING INFORMATION:
  - DRAINAGE PATTERNS
  - APPROXIMATE SLOPES AFTER MAJOR GRADING ACTIVITIES
  - AREAS OF SOIL DISTURBANCE
  - AN OUTLINE OF ALL AREAS THAT ARE NOT TO BE DISTURBED
  - THE LOCATIONS OF ALL MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS
  - THE LOCATIONS OF EXPECTED STABILIZATION PRACTICES
  - WETLANDS AND SURFACE WATERS
  - LOCATION WHERE STORMWATER MAY DISCHARGE TO A SURFACE OR MS4.
- CONTRACTOR TO PUT IN PLACE SUPPLEMENTAL SEDIMENT AND EROSION CONTROL MEASURES DEPENDENT ON ADDITIONAL CONTRACTOR ACTIVITIES.

**SEDIMENT AND EROSION CONTROL PLAN**

CVS AT WILDLIGHT FOR BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
**12**

Trusted Advisors, Creating Community,  
**ETM**  
ENGLAND-THIMS & MILLER

1411 Edgewater Drive, Ste. 200  
Orlando, Florida 32804  
(407) 536-5379  
www.etmnc.com

ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

REVISIONS:  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

PLANS PREPARED UNDER THE DIRECTION OF:  
DALLAS SCHRIER  
P.E. NUMBER: 94608

PLOTTED: March 27, 2025 — 4:39 PM. BY: Kevin Ferguson

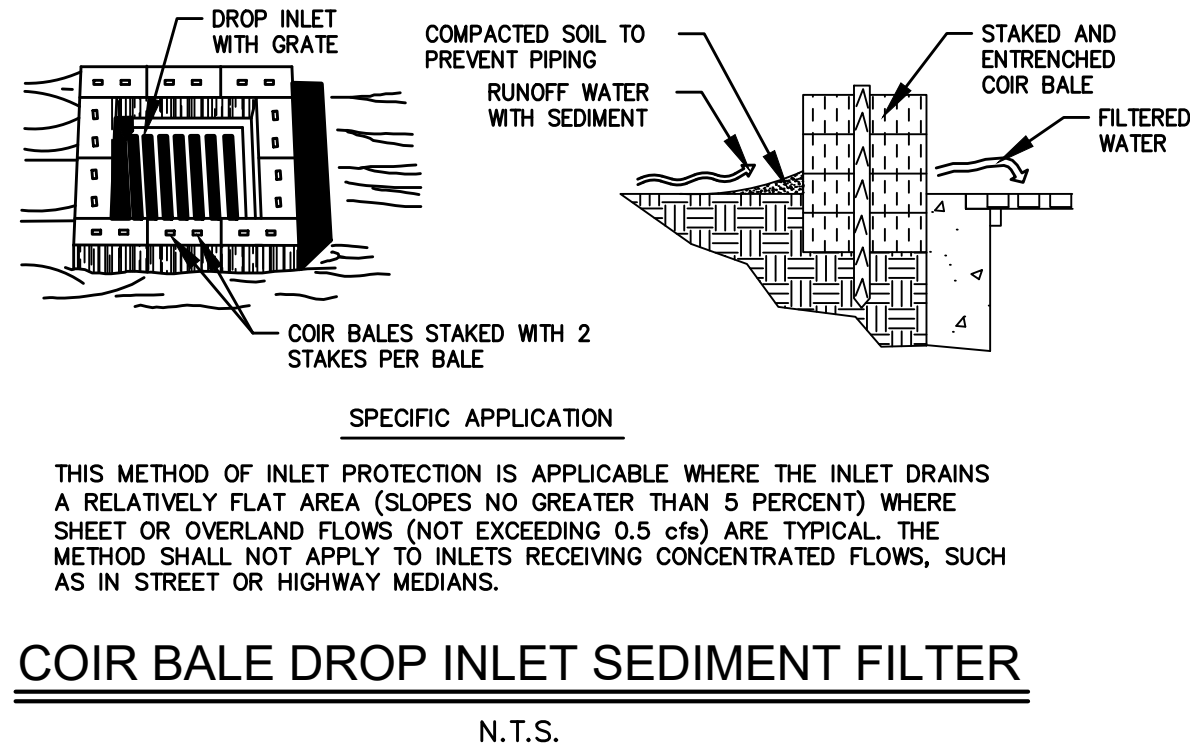
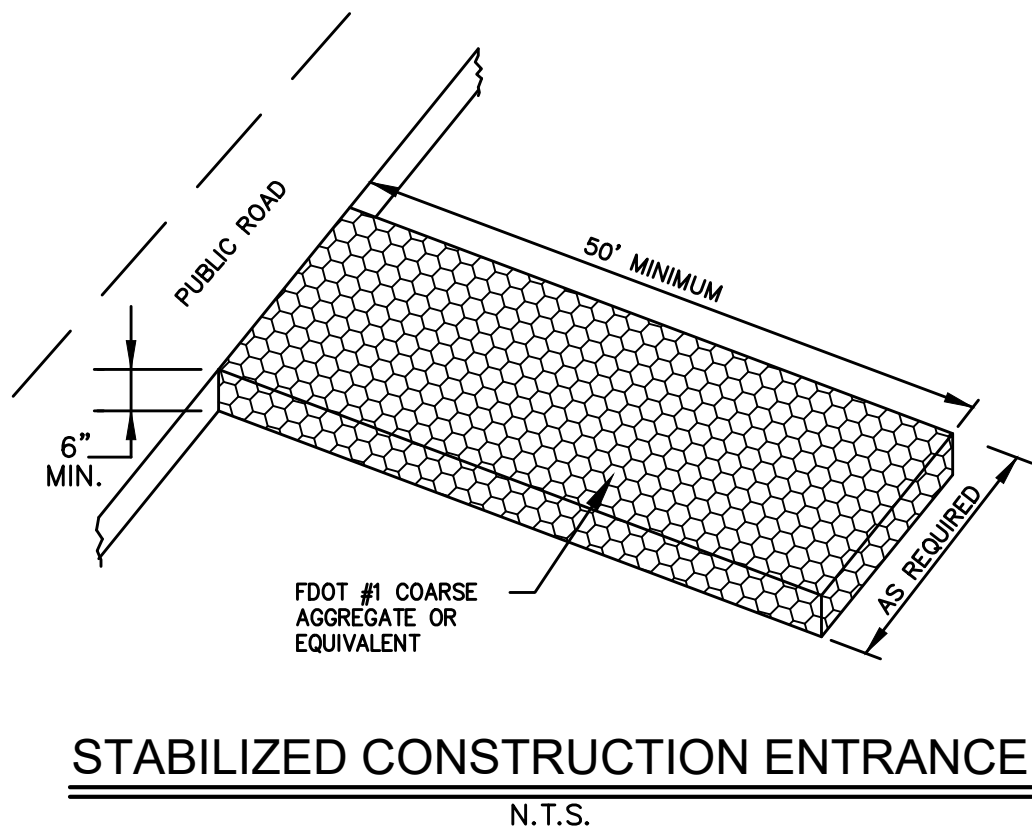
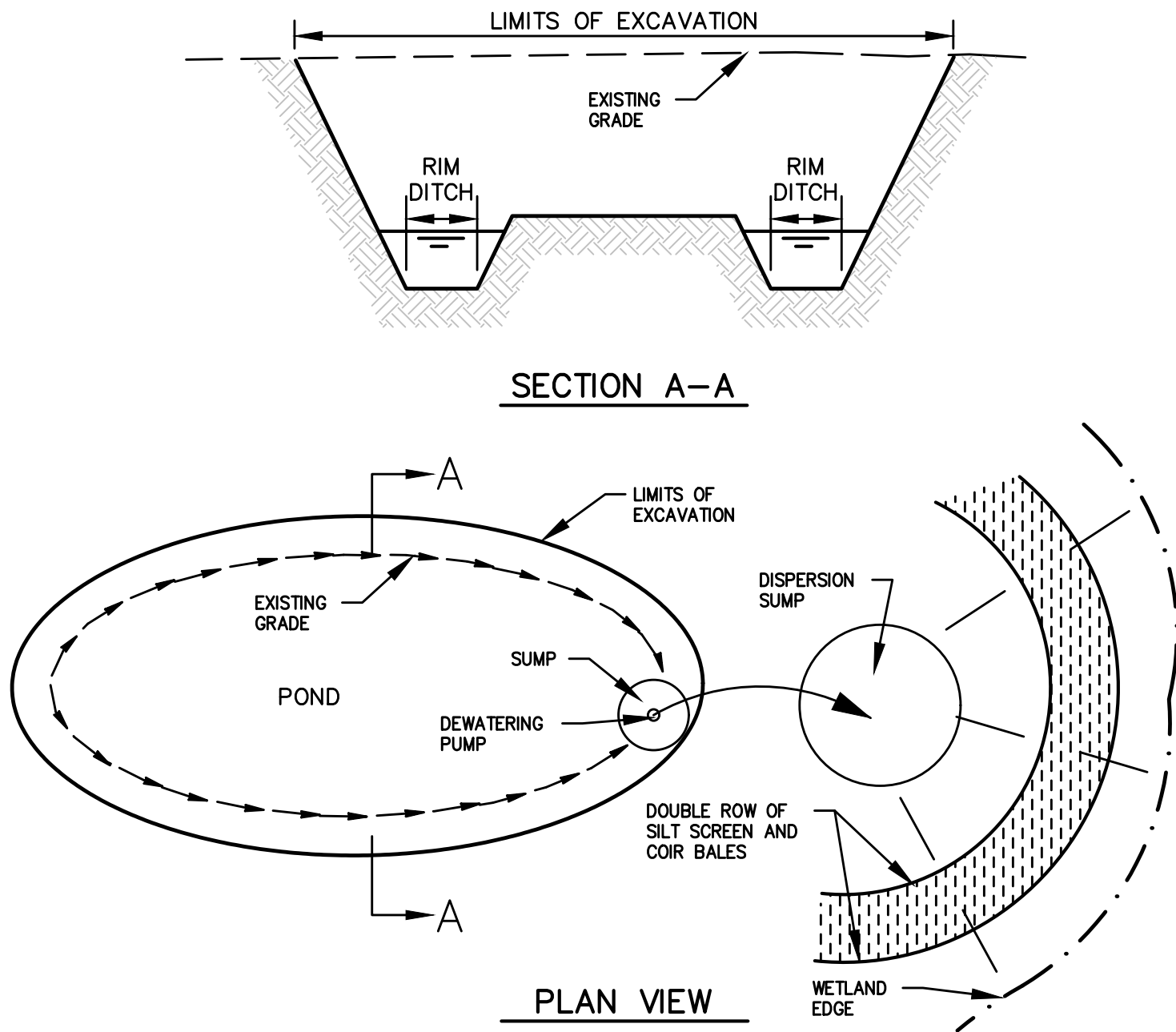


SEDIMENT AND EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS REQUIRED, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE COIR SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. COIR BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE COIR BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
20. STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS REQUIRED.
21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.P.) CHAPTER 6.
24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTURBED AREAS THROUGH COMPACTION, SILT SCREENS, COIR BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SURWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
32. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS AND MEETING THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, NASSAU COUNTY AND NPDES FINAL STABILIZATION REQUIREMENTS.
34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO

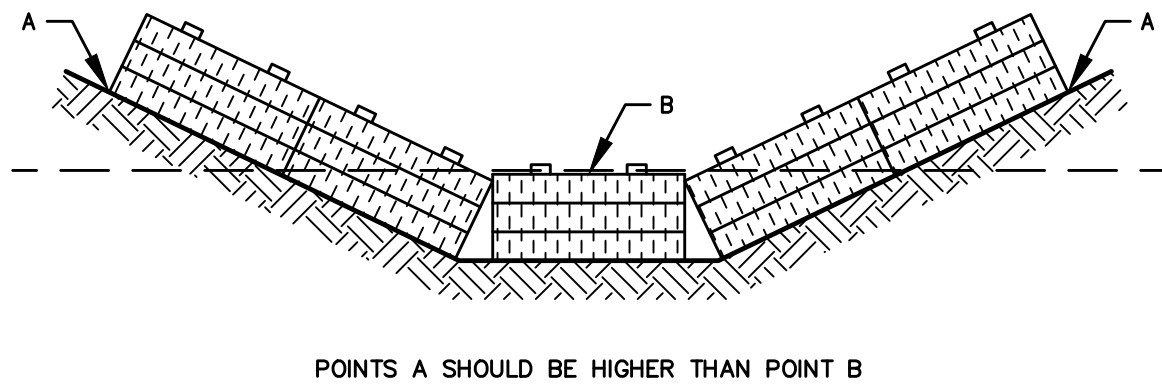
SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.

35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT)



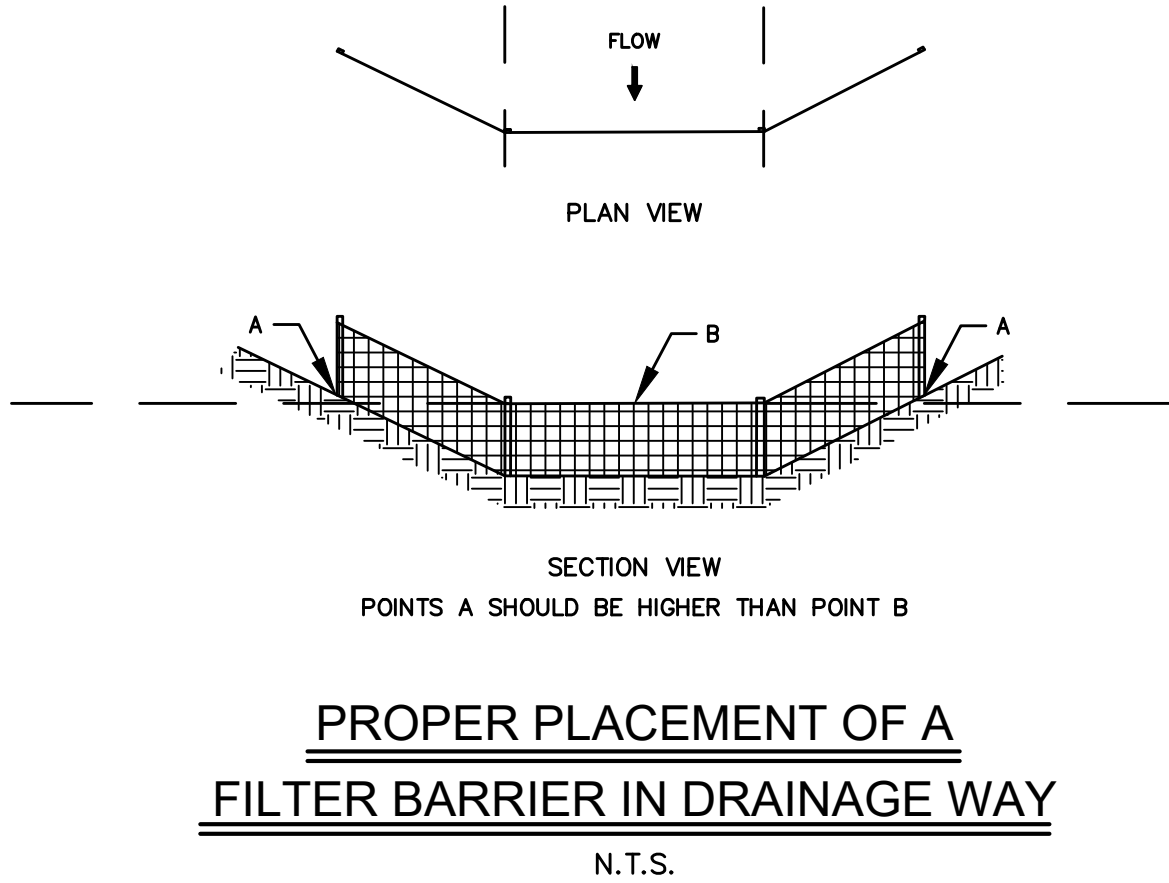
COIR BALE DROP INLET SEDIMENT FILTER

N.T.S.



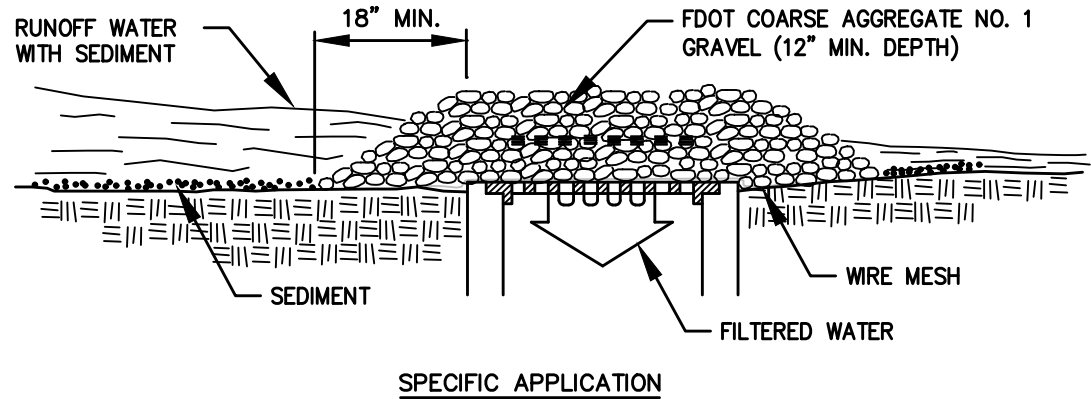
PROPER PLACEMENT OF COIR BALE IN A DRAINAGE WAY

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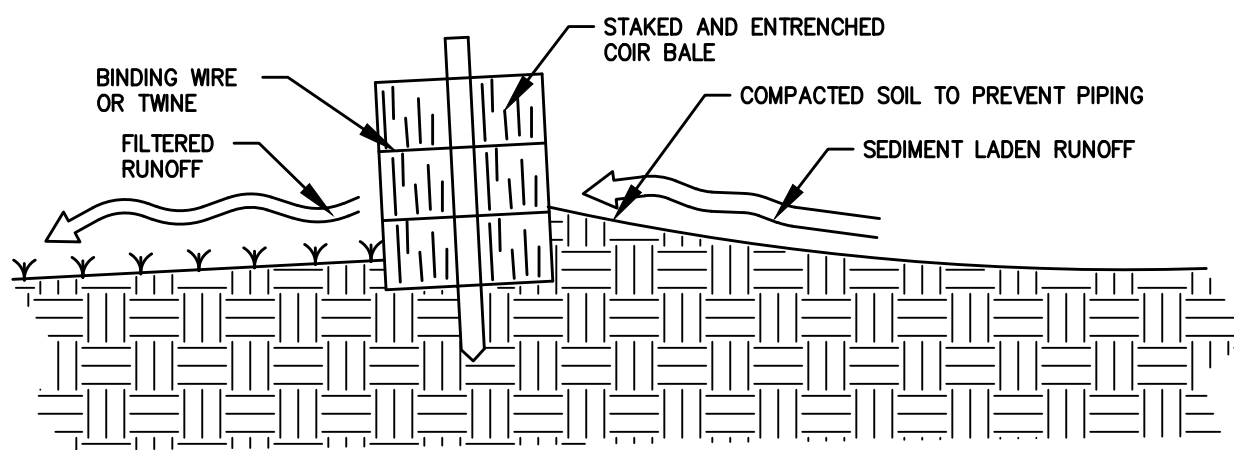
PROPER PLACEMENT OF A FILTER BARRIER IN DRAINAGE WAY

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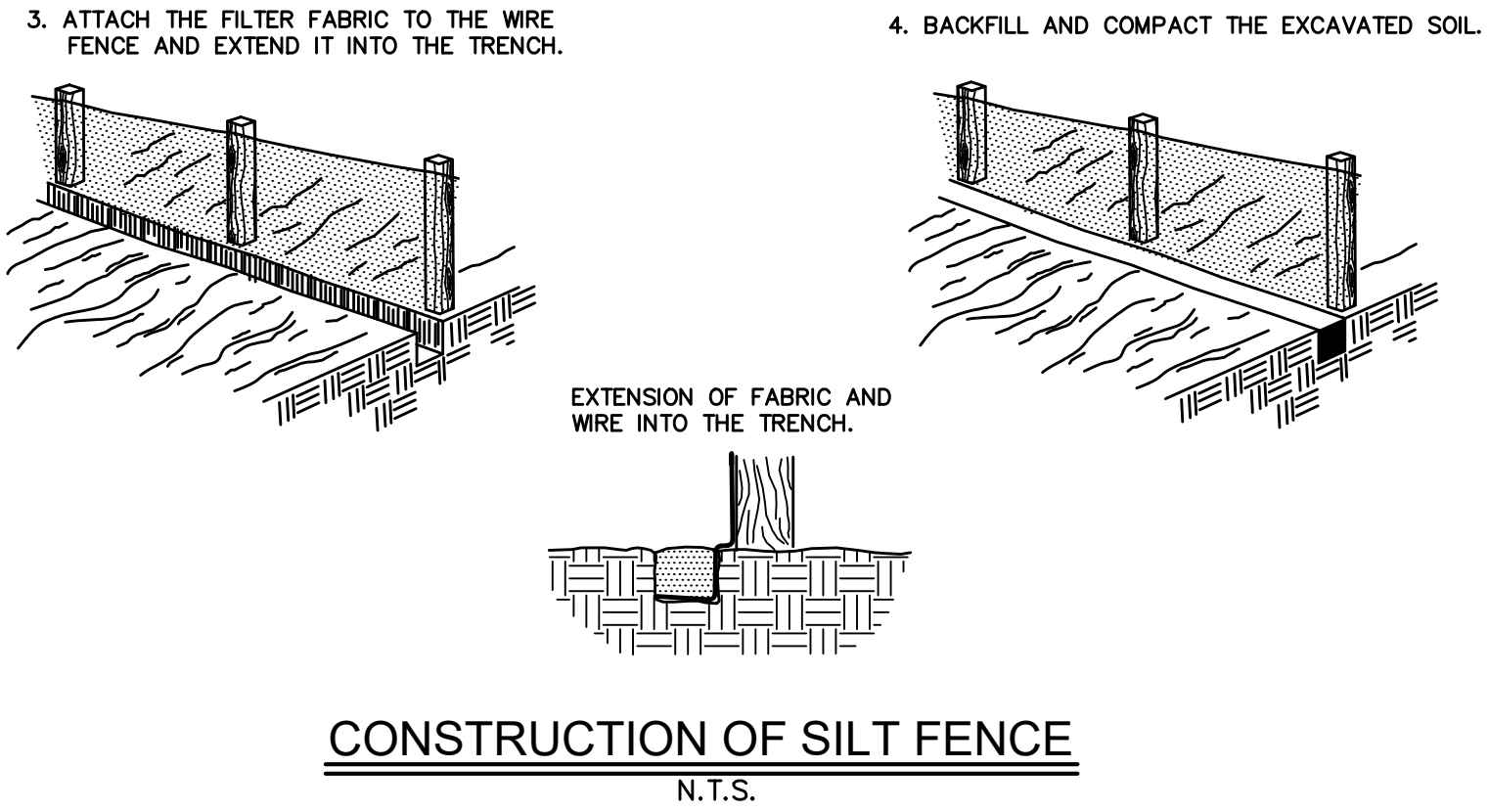
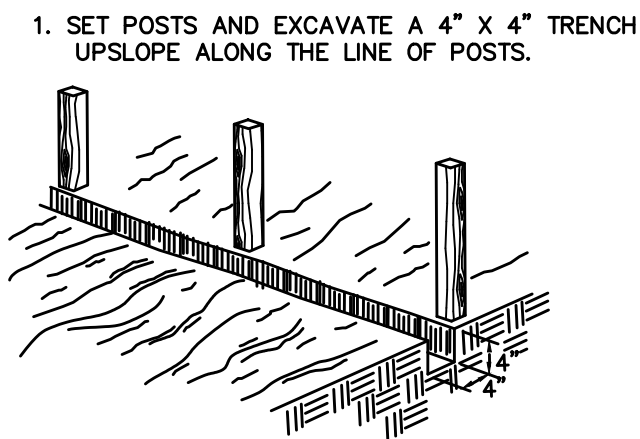
GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

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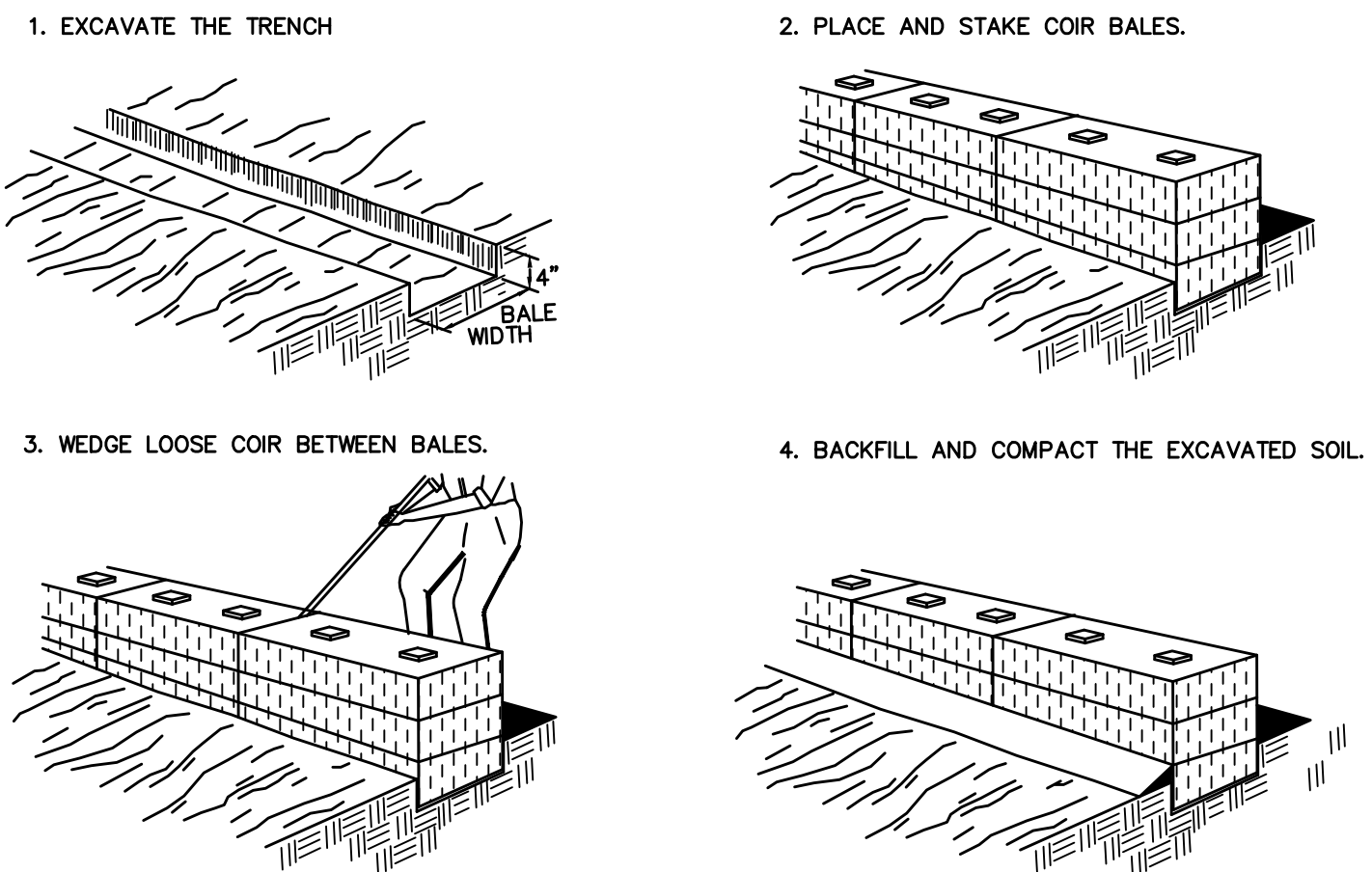
CROSS-SECTION OF A PROPERLY INSTALLED COIR BALE

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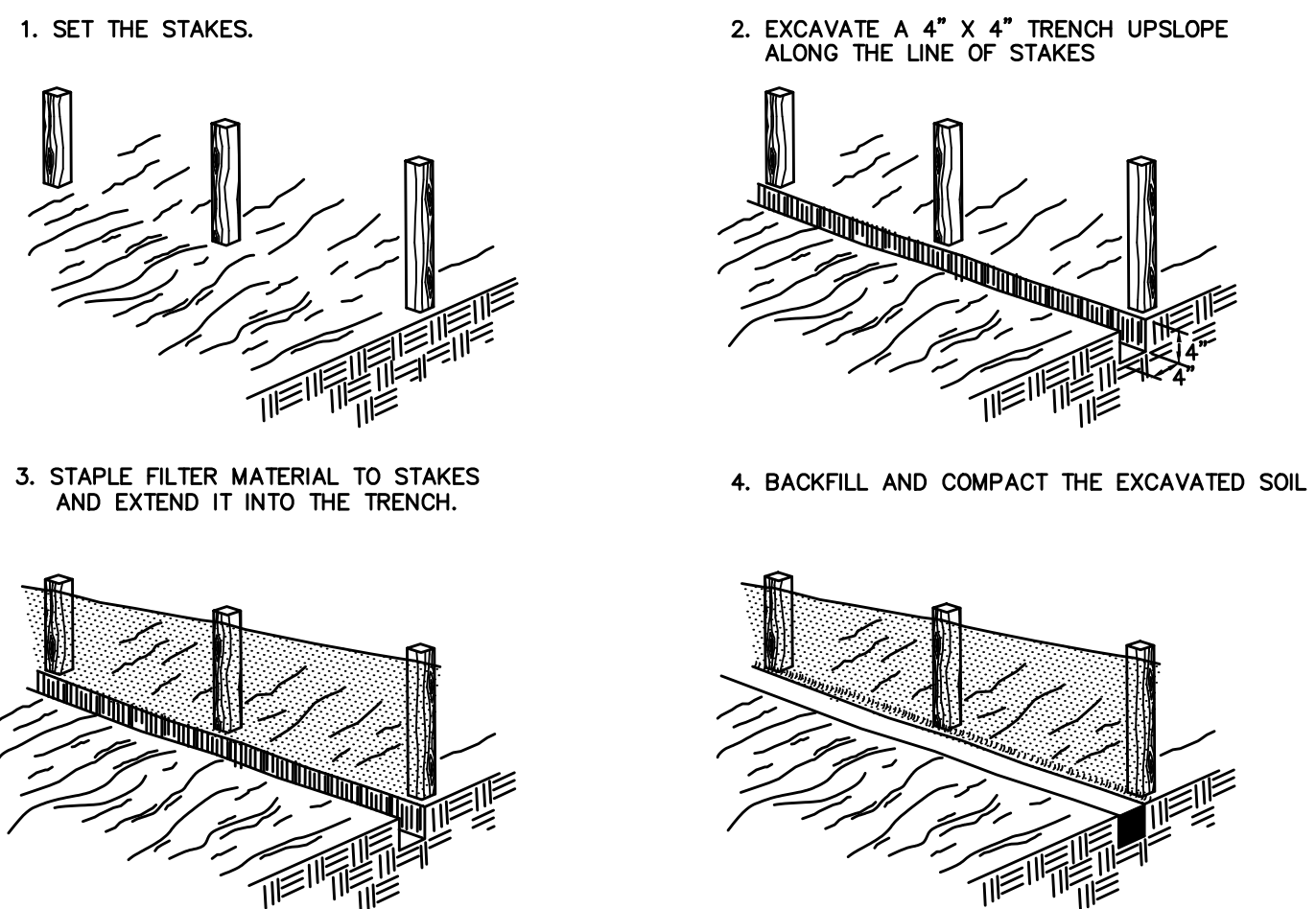
CONSTRUCTION OF A COIR BALE BARRIER

N.T.S.



CONSTRUCTION OF A FILTER BARRIER

N.T.S.



CONSTRUCTION OF A FILTER BARRIER

N.T.S.

SEDIMENT AND EROSION CONTROL DETAILS

CVS AT WILDLIGHT FOR

BOOS DEVELOPMENT GROUP, INC

Trusted Advisors, Creating Community.

ETM ENGLAND-THIMS & MILLER

1411 Edgewater Drive, Ste. 200  
Orlando, Florida 32804  
(407) 536-5379  
www.etm-inc.com

ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

REVISIONS:  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

PLANS PREPARED UNDER THE DIRECTION OF:

DALLAS SCHRIER  
P.E. NUMBER: 94608



OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:  
CVS AT MIDLIGHT  
YULEE, FLORIDA

OWNER/DEVELOPER NAME AND ADDRESS:  
BOOS DEVELOPMENT GROUP, INC  
410 PARK PLACE BLVD., SUITE 100  
CLEARWATER, FL  
727-669-2900

DESCRIPTION:  
  
THIS PROJECT WILL CONSIST OF:  
CONSTRUCTION OF A COMMERCIAL DEVELOPMENT. CONSTRUCTION WILL CONSIST OF INSTALLATION OF UNDERGROUND UTILITIES, CLEARING, GRADING, STORMWATER MANAGEMENT FACILITIES ROADWAYS, PARKING AREAS, AND ASSOCIATED CONSTRUCTION.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:  
CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR THE SEDIMENTATION POND, STORM SEWER, UTILITIES, AND BUILDING FOUNDATION; CONSTRUCTION OF CURB AND GUTTER, ROAD, AND PARKING AREAS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

GENERALIZED RUNOFF CURVE NUMBERS (REFER TO DRAINAGE CALCULATIONS FOR ACTUAL CURVE NUMBER FOR EACH BASIN)

1. PRE-CONSTRUCTION = 79±  
2. DURING CONSTRUCTION = 87±  
3. POST-CONSTRUCTION = 95±

SOILS:  
\* SEE ATTACHED FOR SOILS DATA

SITE MAPS:  
\* SEE ATTACHED DWG. No. 8 FOR POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.

\* SEE ATTACHED DWG. No. 12 AND 13 FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS

SITE AREA:  
1. TOTAL AREA OF SITE = 1.39 AC±  
2. TOTAL AREA TO BE DISTURBED = 1.39 AC±

NAME OF RECEIVING WATERS: HEADWATERS OF NASSAU RIVER

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE

2. INSTALL SILT FENCES AND COIR BALES AS REQUIRED

3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN

4. CONSTRUCT SEDIMENTATION BASIN

5. CONTINUE CLEARING AND GRUBBING

6. STOCK PILE TOP SOIL IF REQUIRED

7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED

8. STABILIZE DENUDEED AREAS AND STOCKPILES AS SOON AS PRACTICABLE

9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.

10. APPLY BASE TO PARKING AREAS

11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING

12. COMPLETE FINAL PAVING

13. REMOVE ACCUMULATED SEDIMENT FROM BASINS

14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED

NOTE: VERTICAL CONSTRUCTION OF THE BUILDING WILL BE TAKING PLACE DURING ALL THE SEQUENCE STEPS LISTED ABOVE

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND COIR BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN (DRAWING NO. 12)

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DWG. No. 12 AND 13 HAVE BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS  
STABILIZATION PRACTICES

1. COIR BALE BARRIER: COIR BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:  
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.  
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.  
C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.  
D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF COIR BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.

2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:  
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.  
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.

3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

5. STOCKPIILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

CONTRACTOR'S REQUIREMENTS

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:  
  
Concrete Fertilizers Wood  
Asphalt Petroleum Based Products Masonry Blocks  
Tar Cleaning Solvents Roofing Materials  
Detergents Paints Metal Studs

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES  
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:  
  
GOOD HOUSEKEEPING  
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.  
  
\* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.  
\* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.  
  
\* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.  
\* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.  
  
\* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.  
  
\* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.  
  
\* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.  
  
HAZARDOUS PRODUCTS  
THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.  
\* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.  
\* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.  
\* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.  
  
PRODUCT SPECIFIC PRACTICES  
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:  
  
PETROLEUM PRODUCTS  
ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.  
  
FERTILIZERS  
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA, THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.  
  
PAINTS  
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.  
  
CONCRETE TRUCKS  
CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:  
  
MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.  
  
MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.  
  
ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.  
  
THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.  
  
SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.  
  
THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.  
  
THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

OTHER CONTROLS

WASTE DISPOSAL  
WASTE MATERIALS  
ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.  
  
HAZARDOUS WASTE  
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.  
  
SANITARY WASTE  
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.  
  
OFFSITE VEHICLE TRACKING  
A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULIN.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES  
THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.  
  
\* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDE AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.  
  
\* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER.  
  
\* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.  
  
\* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.  
  
\* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.  
  
\* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.  
  
\* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.  
  
\* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM SHALL BE COMPLETED BY THE INSPECTOR  
THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.  
THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.  
  
\* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.  
  
\* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

\* IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:  
  
\* WATER FROM WATER LINE FLUSHING  
  
\* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).  
  
\* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).  
  
ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.  
  
CONTRACTOR'S CERTIFICATION  
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DEWATERING

PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR

PLANS PREPARED UNDER THE DIRECTION OF:  
  
DALLAS SCHRIER  
P.E. NUMBER: 94608

REVISIONS:  
ETM NO. 23-128-01  
2025.02.02 19:13 - REV. PER AGENCY COMMENTS  
2025.03.02 21:17 - REV. PER AGENCY COMMENTS  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

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(904) 642-8990  
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REG-00002584 LC-0000316

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STORMWATER POLLUTION PREVENTION PLAN  
CVS AT MIDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
14

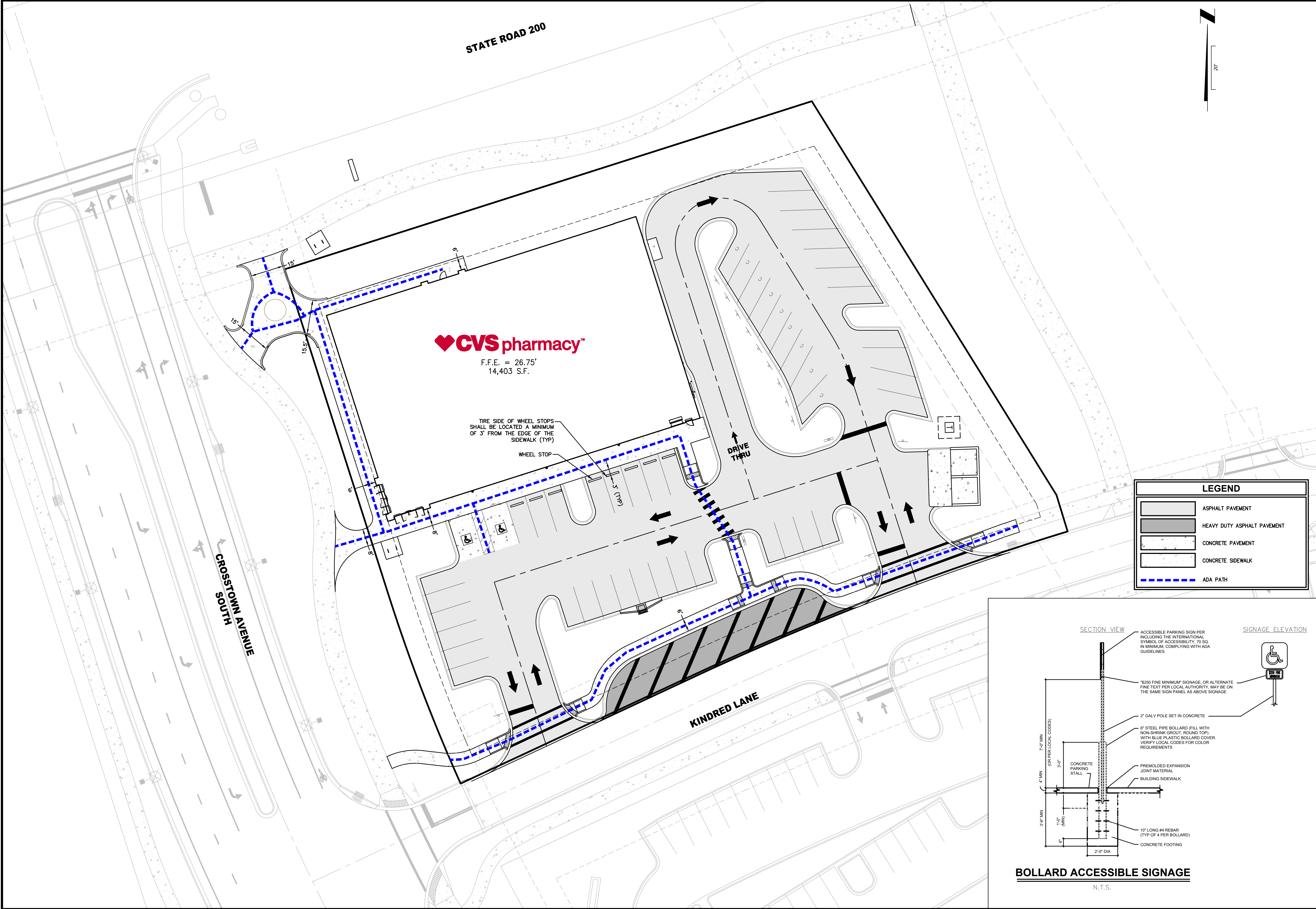
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PLOTTED: March 27, 2025 — 4:39 PM BY: Kevin Ferguson









**CVS pharmacy**

F.F.E. = 26.75'  
14,403 S.F.

TIRE SIDE OF WHEEL STOPS  
SHALL BE LOCATED A MINIMUM  
OF 3' FROM THE EDGE OF THE  
SIDEWALK (TYP)

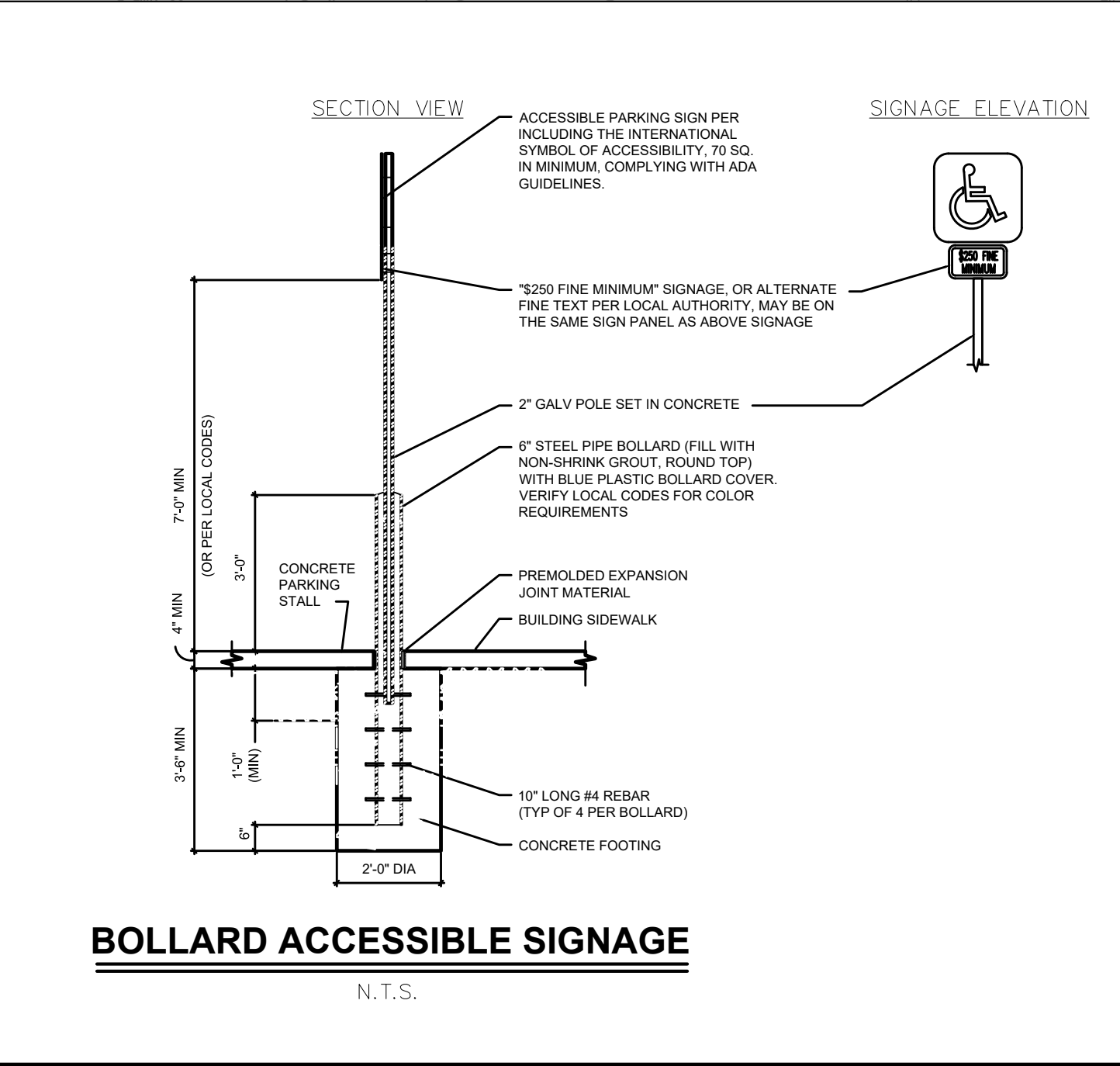
WHEEL STOP

DRIVE  
THRU

KINDRED LANE

SOUTHTOWN AVENUE

LEGEND	
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	ADA PATH



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ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

REVISIONS:  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

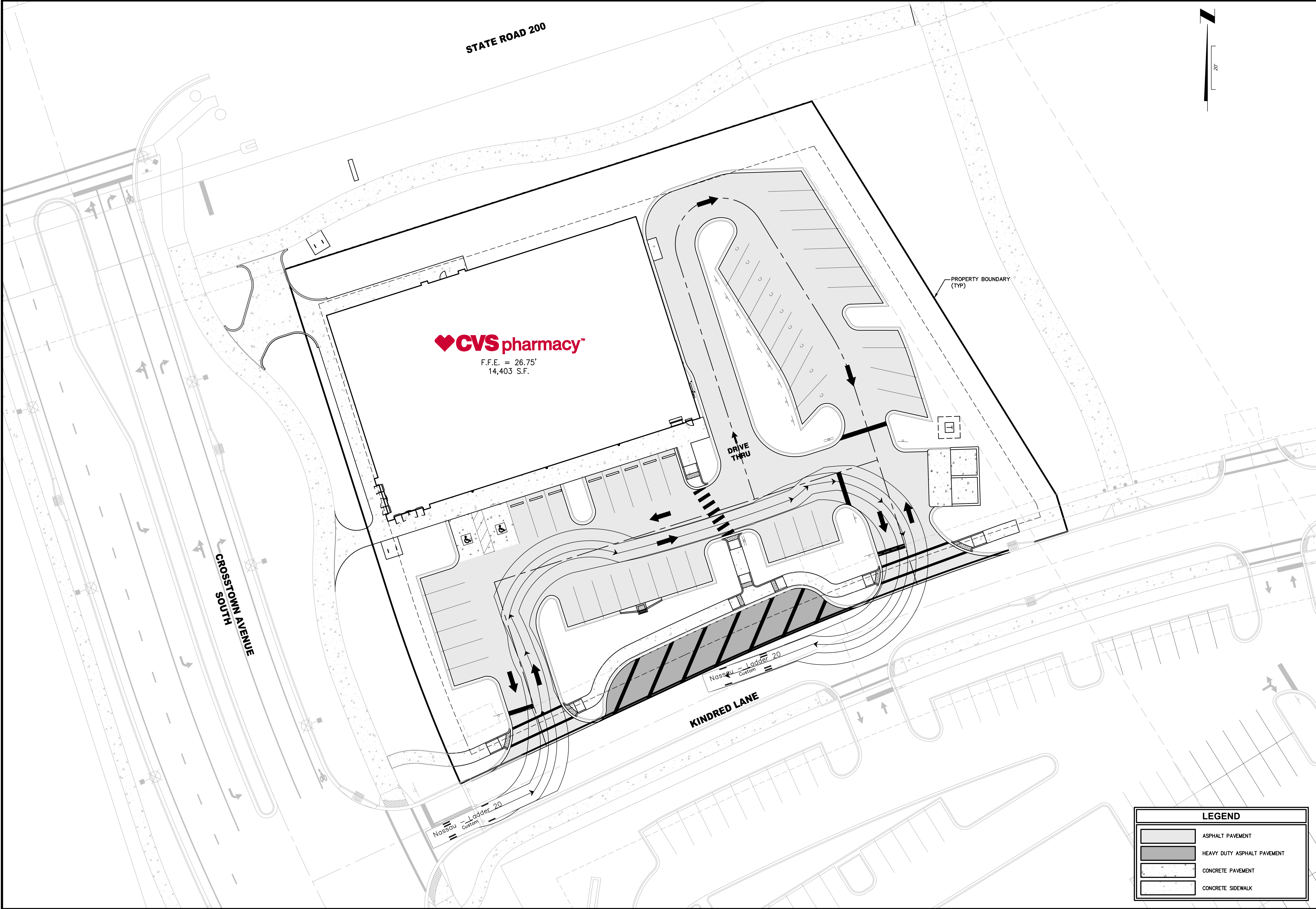
PLANS PREPARED UNDER  
THE DIRECTION OF:  
DALLAS SCHRIER  
P.E. NUMBER: 94608

ACCESSIBILITY PLAN  
CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
16

PLOTTED: March 27, 2025 — 4:40 PM, BY: Kevin Ferguson





**CVS pharmacy**  
F.F.E. = 26.75'  
14,403 S.F.

PROPERTY BOUNDARY  
(TYP)

DRIVE  
THRU

KINDRED LANE

CROSSTOWN AVENUE

STATE ROAD 200

LEGEND	
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK

**FIRE ACCESSIBILITY PLAN**

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

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DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

REVISIONS:  
2023.02.19 - REV. PER AGENCY COMMENTS  
2023.03.27 - REV. PER AGENCY COMMENTS

PLANS PREPARED UNDER  
THE DIRECTION OF:  
DALLAS SCHRIER  
P.E. NUMBER: 94608

PLotted: March 27, 2025 — 4:40 PM, BY: Kevin Ferguson



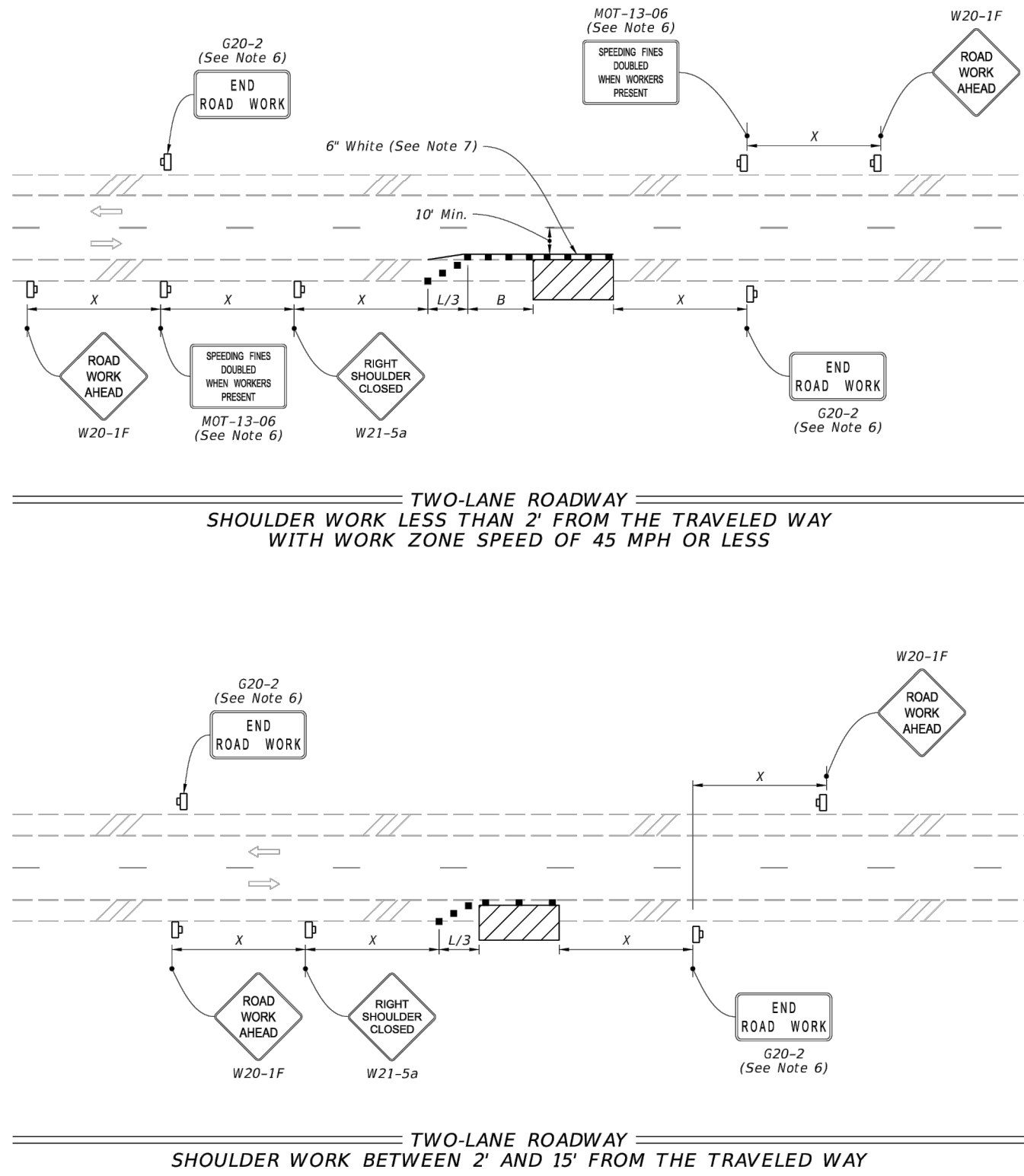
10/17/2023 8:23:59 AM

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length  
X = Work Zone Sign Spacing  
B = Buffer Length  
See Index 102-600 for "L", "X", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



LAST REVISION 11/01/21

DESCRIPTION:



FY 2024-25  
STANDARD PLANS

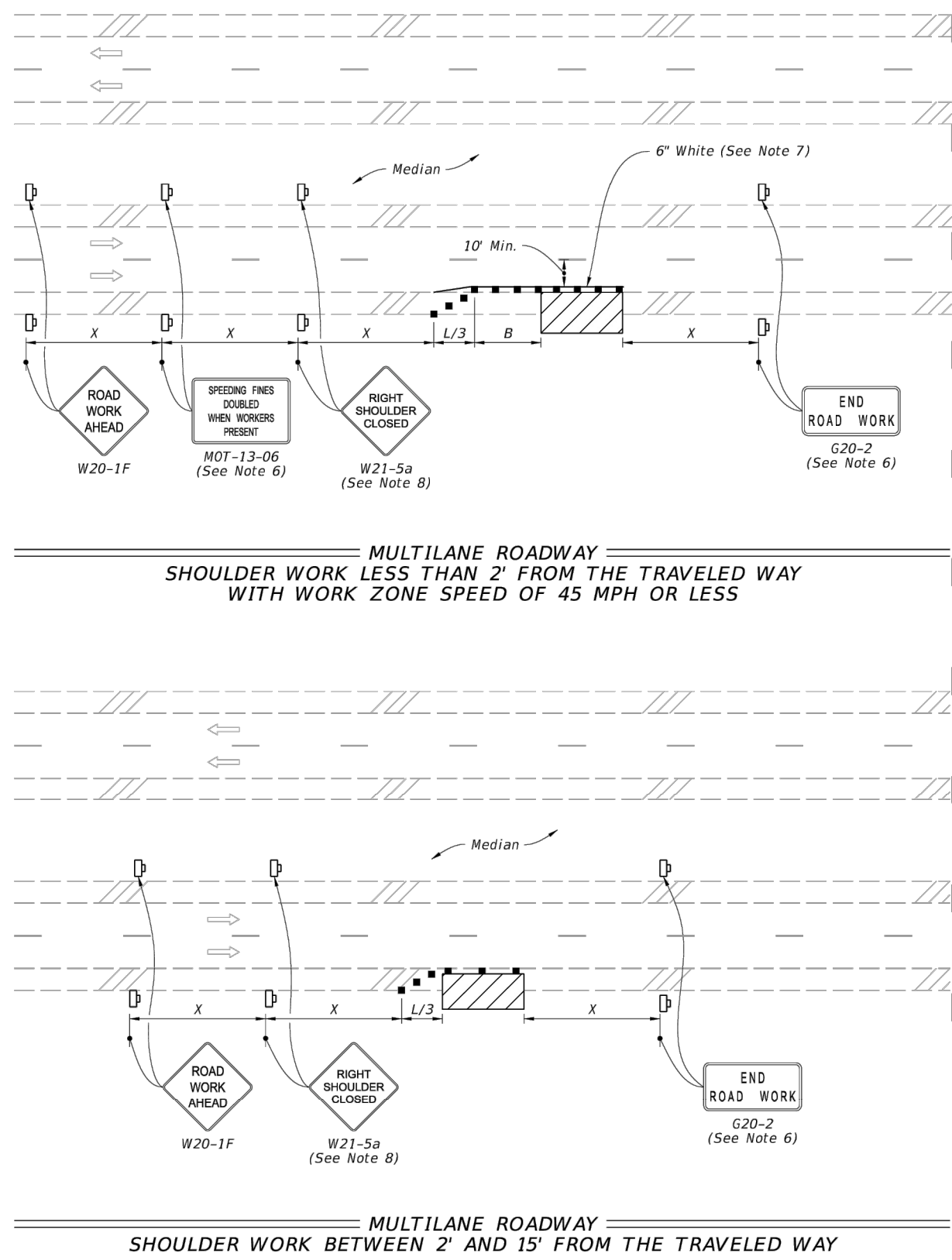
TWO-LANE AND MULTILANE, WORK ON SHOULDER

INDEX 102-602  
SHEET 1 of 2

10/17/2023 8:23:59 AM

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



LAST REVISION 11/01/20

DESCRIPTION:



FY 2024-25  
STANDARD PLANS

TWO-LANE AND MULTILANE, WORK ON SHOULDER

INDEX 102-602  
SHEET 2 of 2

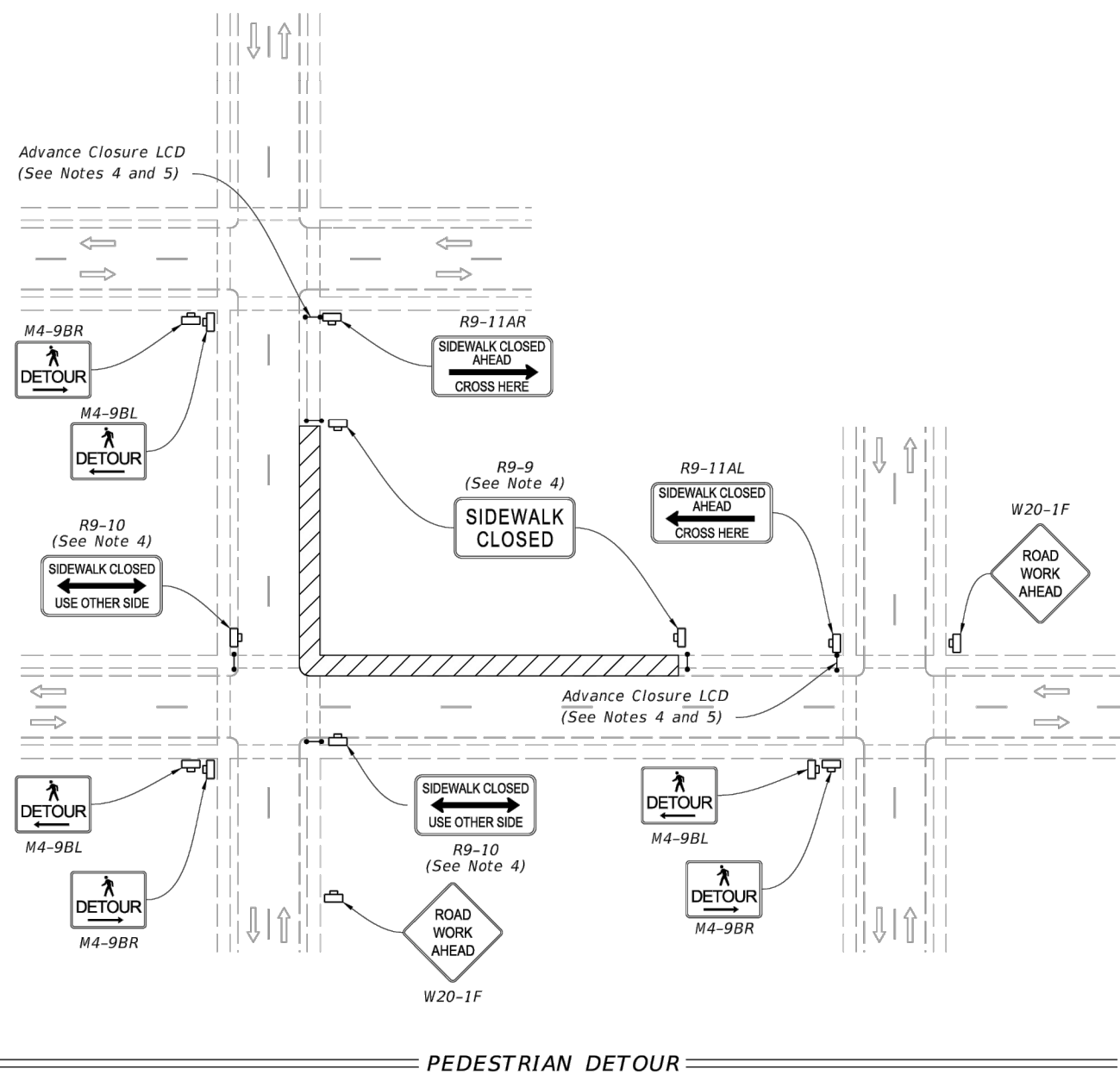
10/17/2023 8:26:00 AM

NOTES:

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
2. Place pedestrian LCDs across the full width of the closed sidewalk.
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
4. "Sidewalk Closed" signs (R9-11A) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.
5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e.g., transit stops, residences, or business entrances).

SYMBOLS:

- Work Area
- Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Lane Identification and Direction of Traffic



LAST REVISION 11/01/23

DESCRIPTION:



FY 2024-25  
STANDARD PLANS

SIDEWALK CLOSURE

INDEX 102-660  
SHEET 1 of 2

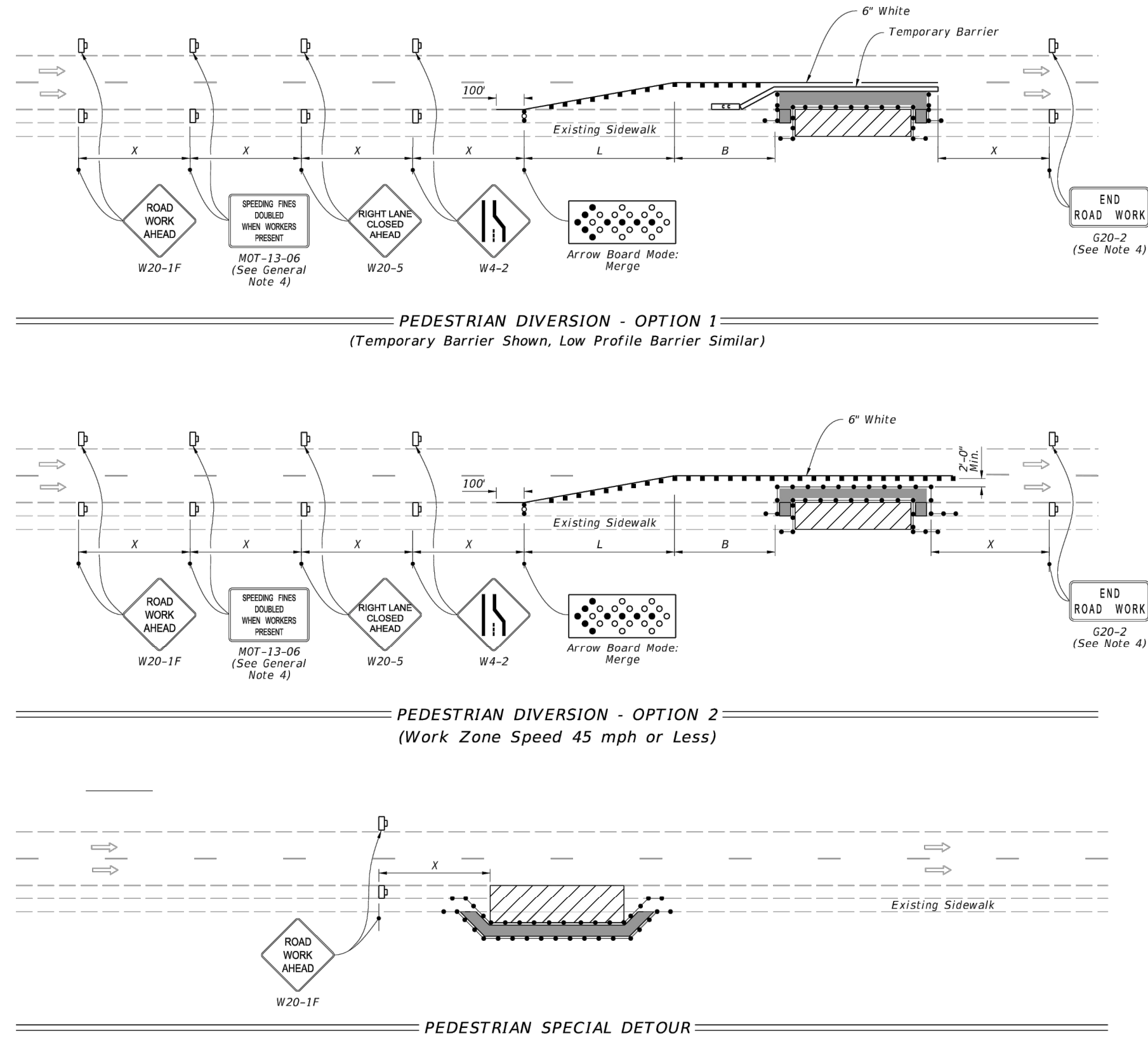
10/17/2023 8:26:00 AM

NOTES:

1. L = Taper Length  
B = Buffer Length  
X = Work Zone Sign Distance  
See Index 102-600 for "L", "B", "X", channelizing device spacing values.
2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

SYMBOLS:

- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic



LAST REVISION 11/01/23

DESCRIPTION:



FY 2024-25  
STANDARD PLANS

SIDEWALK CLOSURE

INDEX 102-660  
SHEET 2 of 2

MAINTENANCE OF TRAFFIC

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

ETM  
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ETM NO. 23-128-01  
DRAWN BY: KMF  
DESIGNED BY: DDS  
CHECKED BY: DDS  
DATE: MARCH 2025

REVISIONS:  
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2025.03.27 - REV. PER AGENCY COMMENTS

PLANS PREPARED UNDER  
THE DIRECTION OF:

DALLAS SCHRIER  
P.E. NUMBER: 94608

PLOTTED: March 27, 2025 - 4:40 PM BY: Kevin Ferguson

DRAWING NUMBER

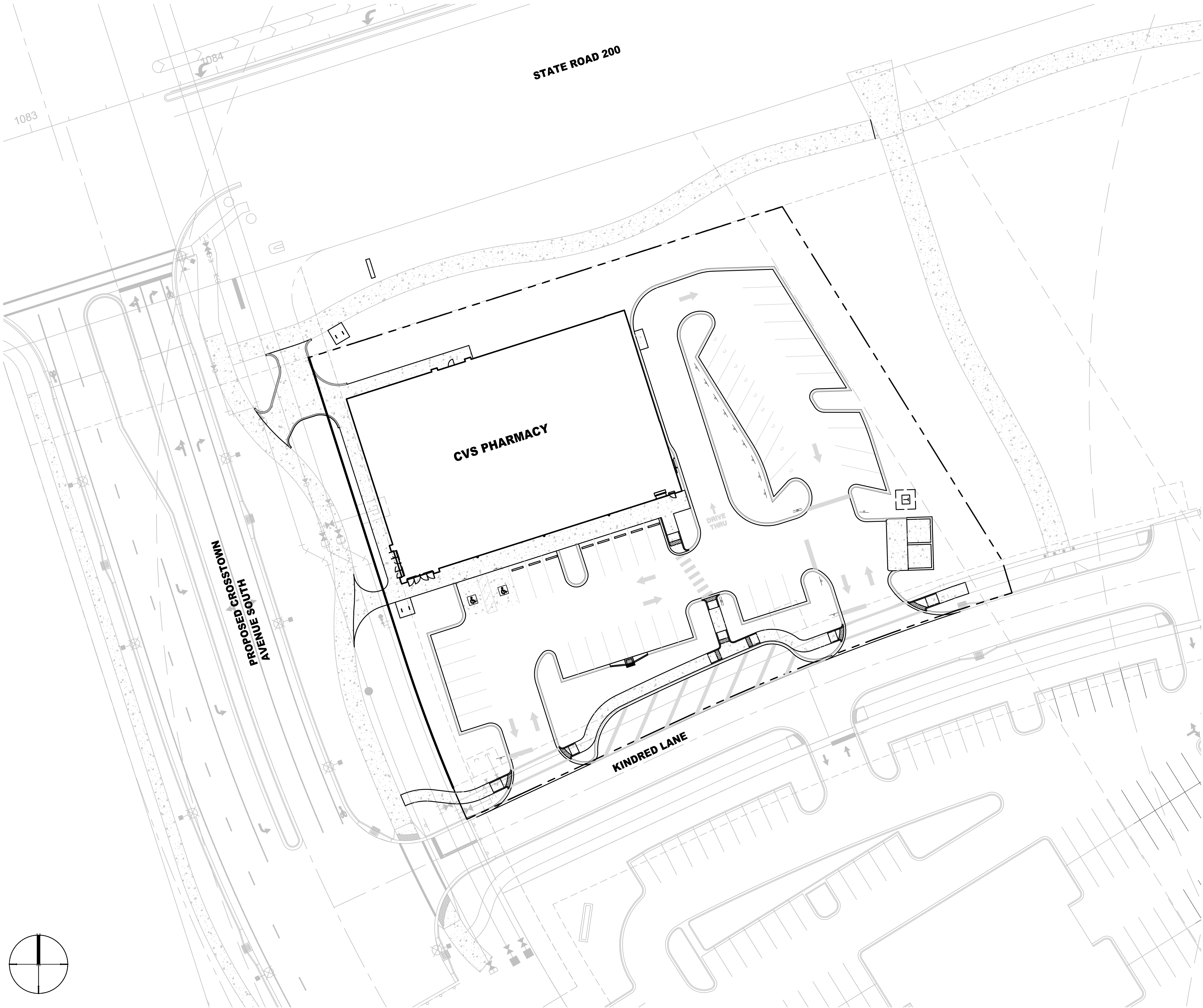
18

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# CVS AT WILDLIGHT

## LANDSCAPE ARCHITECTURE DOCUMENTS



INDEX PLAN

### LANDSCAPE SHEET INDEX

SHEET N:	DRAWING DESCRIPTION:
L000	LANDSCAPE COVER SHEET
L001	LANDSCAPE NOTES
L600	LANDSCAPE CODE CALCULATIONS AND PLANT SCHEDULE
L601	LANDSCAPE PLAN
L602	LANDSCAPE DETAILS
L400	HARDSCAPE NOTES AND DETAILS

PLANS PREPARED UNDER THE DIRECTION OF:  
JONATHAN F. KORMAN, P.L.A.  
L.A. NUMBER: 6867357

REVISIONS:  
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2023.03.27 - REV. PER AGENCY COMMENTS

ETM NO. 23-128-01  
DRAWN BY: AA  
DESIGNED BY: JFK  
CHECKED BY: JFK  
DATE: MARCH 2025

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LANDSCAPE COVER SHEET  
CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
**L000**

PLOTTED: March 27, 2025 — 4:40 PM. BY: Kevin Ferguson





GENERAL NOTES

- The contractor is responsible for confirming with ETM that they are using the most up-to-date plan set for both bidding and installation. Failure to verify the current plan set may result in corrective work, including design revisions and permitting fees, which will be at the contractor's expense.
- Please refer to the civil engineers' plans for site layout, pavement, grading, and drainage.
- In the field, refrain from willfully installing or constructing items as depicted in the drawings when it becomes apparent that unforeseen obstructions, grade variations, or discrepancies in area dimensions exist, which may not have been considered in the design. Report such obstructions or differences to ETM and the owner's representative. Discrepancies, conflicts, or potential deviations should be brought to the attention of the owner's representative in writing within 48 hours of discovery; otherwise, the contractor will assume full responsibility for any necessary revisions.
- The contractor is responsible for verifying the locations of all underground utilities, pipes, structures, and line runs in the field before commencing construction. Any damage to new or existing utilities must be promptly repaired at no additional cost to the owner. ETM bears no responsibility for utilities not identified in survey or indicated on the plans.
- The contractor is responsible for providing and installing all items in accordance with the drawings and specifications. Notify ETM of any significant discrepancies between the contractor's verified quantities, bid book, and the intent of the drawings.
- The contractor is accountable for all final quantities as specified in the drawings and specifications. Quantities provided by ETM are for convenience only and should not be considered absolute. ETM should be informed of any grading discrepancies.
- The contractor should thoroughly review all contract documents in their entirety. Survey the project, become familiar with existing conditions and the scope of work, and base all cost submissions on a comprehensive understanding of the required work and materials. Any discrepancies or uncertainties regarding materials or products to be used should be verified with the owner or ETM before bidding.
- The contractor shall take sole responsibility for determining construction means, methods, techniques, sequences, and procedures necessary for the safe execution and completion of the work. They are also responsible for initiating, maintaining, and supervising all safety precautions and programs related to the work.
- The contractor must verify all site measurements and ensure their accuracy and correctness.
- Coordinate all work with other contractors and the overall construction of the project to ensure it does not impede the progress of others.
- As required by governing authorities, the contractor must engage an approved testing laboratory to conduct all necessary tests for concrete, soil compaction, and welding to ensure compliance with plans, standards, and codes. The cost of testing is included as an incidental expense in the contract.
- The contractor must obtain all necessary permits before commencing construction and schedule all inspections and testing in accordance with the requirements of the relevant agencies and the contract documents.
- Protect all existing work or landscaping not designated for alteration or removal from damage during construction. The contractor is responsible for bearing the total expense and making necessary repairs to existing conditions or improvements not indicated in the drawings or specifications.
- The contractor should refer to the landscape notes, specifications, and contract documents prepared by various consultants, including but not limited to architectural, MEP, irrigation, structural, and civil engineering, for additional requirements.
- The contractor is responsible for the safety of the public and all personnel involved in the construction of this project. Enforce all safety regulations as required by applicable codes, regulations, and recognized local practices during construction and maintenance.
- The owner's representative has the authority, at any stage of the operation, to reject any work or materials that, in their opinion, do not meet the requirements of the contract documents.
- All required sediment and erosion control measures installed as part of this project must remain in place and be maintained in good condition until construction is complete. For additional requirements, refer to the civil engineering contract documents.

PROJECT COORDINATION NOTES:

- The contractor is responsible for effectively coordinating and scheduling all activities to ensure seamless integration with the work conducted by other contractors and utility companies on or near the site.
- The contractor should consult the hardscape notes, landscape notes, specifications, and the comprehensive contract documents, which have been prepared by various consultants, including architectural, MEP, irrigation, structural, and civil engineering experts, for any additional requisites.

LANDSCAPE SUBMITTALS REQUIRED

- The landscape contractor must provide the following documentation to the owner's representative for review and approval at least ten (10) days before commencing work:
  - Qualifications documentation for the landscape contractor.
  - Qualifications documentation for the landscape supervisor.
- The landscape contractor is required to submit the following materials to the owner's representative for review and approval, with a minimum of thirty (30) days' notice before the intended use date:
  - Qualifications documentation for the plant nursery.
  - Test reports and recommendations from a certified testing laboratory.
  - One-quart samples of existing site soil from each designated area.
  - One-quart samples of each soil amendment (if applicable).
  - One-quart samples of each amended soil (if applicable).
  - One-quart samples of each specified mulch type.
  - One-quart samples of each backfill mix.
  - One-quart sample of any imported fill material.
  - Manufacturer's product data and recommended application rates for all fertilizers.
  - Test reports from a certified laboratory on amended soils.
  - Manufacturer's certificate of chemical composition for all fertilizers, including the percentage and derivation of nitrogen, phosphorus, potassium, and micro-nutrients.
  - Written documentation of the weed control program.
  - Proposed sequence and duration of installation by zone.
  - Written plan for emergency utility service repair.
- The landscape contractor is obliged to submit the following items to the owner's representative for review and approval, with a minimum of ten days' notice before the final walkthrough:
  - 'As-built' record documents of the installation (3 sets), identifying any deviations from the construction plans. These plans must be updated by the contractor at least weekly throughout the construction period for informal progress review by the owner's representative.
  - Written recommendations for an ongoing maintenance program (3 copies).
  - Release of lien form from the landscape contractor, as well as similar forms from all suppliers, vendors, and/or subcontractors used on this project. Please note that final payment will not be authorized prior to the receipt of this documentation.

LANDSCAPE NOTES:

GENERAL NOTES

- The scope of work for the landscape contractor on this project includes providing all labor, materials, and equipment required to complete all tasks related to landscape and irrigation installation as shown on the drawings and noted in the documents. The landscape contractor is responsible for coordinating with the general contractor to ensure reasonable access to power and potable water sources as required.
- The landscape contractor should thoroughly acquaint themselves with existing site conditions and communicate any concerns to the owner's representative in writing before commencing work. This assessment should include the verification of surface and subsurface utilities, grades, dimensions, and soil conditions.
- The landscape contractor should review project plans and scopes of work related to associated trades to be carried out by others. This is to identify key coordination items, such as site access, material storage, scheduling, and work sequence. The landscape contractor is responsible for coordinating all site issues with the general contractor.
- The landscape contractor is responsible for protecting all adjacent work, materials, and equipment from damage resulting from their activities. The landscape contractor is solely responsible for any damage or injury to persons or property that may occur as a result of their work.
- The landscape contractor should maintain the area, materials, and equipment within the work limits in a safe, neat, and orderly manner. Excess materials and debris should be removed from the work area daily or as directed by the general contractor.
- The landscape contractor is responsible for maintaining work activities within the work limits and performing work at times and in a manner prescribed by the general contractor.
- The landscape contractor should coordinate any excavation near pre-existing or newly installed utilities with the general contractor. It is the responsibility of the landscape contractor to notify the owner's representative at least 48 hours before digging for field verification of all underground utilities and other elements. The contractor must coordinate with the general contractor regarding emergency repair plans and any possible service interruptions on-site and off. The landscape contractor should bear the sole responsibility for any damage to subsurface utilities caused by their work.
- The landscape contractor must provide all necessary safety measures during construction operations to protect the public according to all applicable codes and recognized local practices.
- The landscape contractor should coordinate with the general contractor to ensure that temporary erosion and sedimentation control measures (such as silt fences, geo fences, and other measures) are installed before beginning excavation.
- Before commencing plant installation, the contractor must verify the availability of all specified plant materials. Any plant material lacking identification from the owner's representative should be photographed and submitted for review before delivery to the project. For trees and palms, these photographs should include a measuring device and a person for scale, along with details about the nursery source, plant material height, width, and caliper.
- The quantities of plant materials indicated in the contract documents are for the convenience of the contractor. It is the contractor's responsibility to confirm these quantities and report any discrepancies to the owner's representative for clarification before the contract is awarded and work begins.
- The owner's representative retains the right to reject any plant materials during the operation that do not meet the specified requirements. The contractor will be required to replace the rejected material with compliant material, and maintenance of the replaced material will continue until final acceptance.
- The owner's representative may adjust the locations of plant materials shown on the plans to accommodate unforeseen field conditions or to achieve the design intent.
- No substitutions of plant materials are allowed without written consent from the owner's representative.
- All plant material installation must adhere to the codes, standards, regulations, requirements, and ordinances of any governing agency with jurisdiction over the project.
- The contractor is responsible for obtaining all necessary permits for the work before commencing construction.
- The contractor must protect all plant materials that are to be retained. Barricades, as specified in the drawings and in the demolition/site clearing notes, must be installed and maintained.
- The contractor should refer to the general, fine grading, hardscape notes, specifications, and the contract documents, which were prepared by various consultants, including architectural, MEP, irrigation, structural, and civil engineering, for additional requirements.
- All plant materials must meet or exceed the following standards:
  - American standards for nursery stock (ANSI Z60.1).
  - Plant materials must conform to Grade #1 or better, as specified in the latest "Grades and Standards for Nursery Plants, Parts I and II" from the Florida Department of Agriculture and Consumer Services.
- Plants must exhibit typical symmetry for their variety and species and be free from plant diseases, insects, or their eggs.
- Nursery-grown stock must be cultivated under climatic conditions similar to the project's locality.
- Plant material sizes specified represent minimum requirements, with height and spread taking precedence over caliper and container sizes.
- Container plants must have spent the minimum time in rigid containers as follows:
  - Trees: 2 years.
  - Shrubs: 1 year.
  - Groundcovers: 6 months.
- All container plants must have well-developed roots to hold the soil together when removed from their containers. No plant material should be bound to the container or have circular roots.
- Balled and burlapped plants will not be accepted if the root ball is cracked or broken.
- Sod must be the specified species as shown on the drawings, with a dense mat and substantial root development, free of weeds, fungus, and other diseases.
- The landscape contractor is responsible for the maintenance of all plant materials and the planting areas until final acceptance by the owner's representative.
- The landscape contractor is responsible for the agronomic evaluation of soil characteristics. This evaluation must include chemical analysis by a qualified agricultural soils testing laboratory. Soil samples should be taken immediately following the completion of rough grading activities, with a rate of one sample for every 10,000 square feet of the impacted area, or a total of six, whichever is greater. The chemical analysis of the soil should consider various factors, including the percentage of organic matter, salinity, pH, lime content, mineral nutrients, potential hazards for plant growth, and sand fraction analysis. The contractor is responsible for covering all costs associated with testing existing soils, prepared planting mixes, and amendments.

FINE GRADING NOTES

- The landscape areas within the designated work boundaries should undergo rough grading, achieving a proximity of +/- 0.10' to finish grade in shrub areas and +/- 0.20' in sod areas before commencing plant installation.
- In planting areas, the finished grade should be maintained at a level 2" below the final elevations indicated for all neighboring hardscape surfaces.
- All required fill material must consist of clean, well-draining soil suitable for planting. The fill should be devoid of any substances detrimental to plant growth, such as rocks (exceeding 2" in diameter), compacted clay, concrete, road base material, roots, debris, branches, or any other harmful elements.
- The final contouring within planting areas should be meticulously hand-raked to create smooth, continuous arcs, ensuring a seamless transition without depressions or surface irregularities. Any erosion-induced scarring during construction should be promptly repaired.
- The landscape contractor is responsible for ensuring that their work does not negatively impact established or anticipated drainage patterns.
- Grading within all project planting and hardscape areas should be designed to ensure positive drainage towards the drainage structures outlined in the site grading and civil engineering plans.
- The landscape contractor is tasked with preserving grade stakes and benchmarks established by others until authorized by the general contractor for their removal.
- The landscape contractor should remain vigilant in identifying conditions that may hinder the ability of landscape materials to thrive. Conditions requiring monitoring encompass the presence of rocks, rubble, road base, construction debris, impermeable soils, chemical spills, and wash-outs.
- In cases where construction necessitates the installation of any trees prior to the completion of rough grading activities, the landscape contractor should use a surveyed elevation, based on a confirmed benchmark, to position the tree(s) with the correct alignment to the finish grade.

SOIL PREPARATION AND SOIL MIX NOTES

- The prepared planting mix should be composed as follows:
  - For trees, shrubs, and groundcover: 70% clean builder's sand, 30% topsoil/peat mixture.
  - For palms: 90% clean builder's sand, 10% topsoil/peat mixture.
  - For annuals: 20% clean builder's sand, 40% peat, 20% vermiculite, and 20 percent shredded pine bark.
- The prepared planting mix for landscape on structures should include the following components:
  - 20% clean builder's sand, 30% peat, 30% 1/4" rice rock, 20% perlite.
- The composition of the prepared planting mix may be adjusted based on recommendations from soil tests.
- Topsoil should be natural surface soil, fertile, crumbly agricultural soil free of weeds, with 4-6% organic matter, a pH between 5.5 and 6.5, and capable of supporting robust plant growth.
- Existing soil can be used as a substitute for topsoil and/or sand based on the results of soil tests.
- Peat should be horticulturally suitable organic peat, shredded into pieces no larger than half an inch (1/2") in diameter, with a pH between 4.5 and 6.5, and sterilized to eliminate weeds and nematodes.
- Composted organics should include wood shavings, pine bark, green waste, or clean agricultural waste that is well-rooted and screened through a half-inch (1/2") screen.
- Components of the prepared planting mix must be mixed outside of the planting beds. The contractor should provide a 2-gallon sample to a certified soils testing laboratory for analysis. Based on the laboratory analysis, the contractor should make necessary soil amendments to meet the following requirements:
  - pH value between 5.5 and 6.6.
  - Organic matter content between 5% and 10% of the total dry weight.
  - Nitrogen content of 5% based on the average organic matter.
  - Phosphorus content of 0.05% based on the average total soil content.
  - Potassium content of 1.2% based on the average total soil content.
- The fertilizer for plant materials should be as follows:
  - For palms: 8-2-12+4 Mg plus minor elements - slow release, with 1/2 lb. of fertilizer per 100 sq. ft. of palm canopy area. Fertilizer shall be 100% control-release sources of N, K and Mg. All of the K present shall be a polymer coated sulfate of potash. All of the Mg present shall be magnesium sulfate in the form of Kieserite.
  - For trees: 8-6-8 plus minor elements(Magnesium 8%, Manganese 2%, Iron 5%, Sulfur 8%, Copper .25%, Zinc 0.5%, Boron .03%) - slow release, with 1/2 lb. of fertilizer per 1/2-inch caliper.
  - For shrubs and groundcovers: 8-10-10 plus minor elements(Magnesium 8%, Manganese 2%, Iron 5%, Sulfur 8%, Copper .25%, Zinc 0.5%, Boron .03%) - slow release, with 1/2 lb. of fertilizer per 100 sq. ft.
  - For lawns: 16-4-8 plus minor elements(S 3%Fe 0.2%Mn 50 lb.) - slow release, with 1 lb. of fertilizer per 1,000 sq. ft.
  - Endo and ectomycorrhizal inoculants: Die Hard or an equivalent approved by the owner's representative.
  - Anti-desiccant: Wilt-Pruf or an equivalent approved by the owner's representative.
- All fertilizers must be made from high-quality materials, free from impurities, and should meet recognized standards for effectiveness.
- All fertilizers should be free-flowing and suitable for application using approved equipment.
- All fertilizers must be delivered to the site in labeled containers, conforming to applicable state fertilizer laws, and clearly displaying the producer's grade and trade name.
- After rough grading is complete, one sample of existing soil for every 5,000 sq. ft. of landscape areas must be submitted to a certified soils testing laboratory for analysis to assess the suitability of the existing soil for the prepared planting mix.
- Soil samples should be collected to a depth of 24 inches.
- If test results indicate that existing soils do not meet the requirements for the prepared planting mix, the contractor has two options:
  - Submit an amended planting mix, along with recommendations for organic materials, fertilizers, and other necessary materials to the owner's representative for approval. Proposed revisions should include the methodology for incorporating amendments to a depth of 24 inches. Any recommended revisions must be approved by the owner's representative before installing the amended planting mix.
  - Excavate landscape beds containing noncompliant existing soils to a depth of 24 inches and backfill them with the specified prepared planting mix. The prepared planting mix should be placed and compacted in 12-inch lifts to 80% of the standard proctor density.
- Existing soils may be incorporated into either the prepared or amended planting mixes, depending on the soil test recommendations.
- Excavated soil may be used for on-site fill if it meets geotechnical requirements.
- Submittals should include:
  - Results of soil tests, including content/mix analysis and amendment recommendations.
  - Certification that the prepared and/or amended planting mix meets requirements.
  - Literature and proposed application rates for soil amendments, herbicides, and sterilizers.

PLANTING NOTES

- Before any plant materials are installed, the contractor must provide written confirmation to the owner's representative, ensuring that the final grades in all designated areas for plant installation align with the proposed grades outlined in the grading plans.
- Planting should only commence once the irrigation system is installed and fully operational. However, in cases where trees are to be planted before the irrigation system is in place, the contractor may proceed if they submit a hand-watering schedule for approval by the owner's representative.
- As the site is prepared for delivery, the landscape contractor is permitted to prune branches or roots only after notifying the owner's representative. Pruning should be done sparingly to ensure safe loading, shipping, and site handling. Importantly, no trees should be topped. Before shipping, all trees must undergo treatment for insects and fungus, as well as an application of foliar anti-desiccant.
- Balled and burlap trees must be dug and prepared for shipment in a manner that safeguards roots, branches, shape, and future growth after planting. These trees should undergo root pruning 30 days before digging and be hardened off at the nursery for a minimum of 30 days prior to shipping. The nursery must provide overhead mist irrigation during this period. Trees received on-site should have a solid root ball with natural soils. Any dried, cracked, or broken root balls will not be accepted. Root balls should adhere to a minimum diameter ratio of 12" of root ball for each inch of tree caliper.
- The contractor must submit weed control products that do not contain glyphosate. Measures should be taken to protect existing plants from overspray, and application is prohibited within the root zones of existing plant materials that are to remain. The contractor is responsible for complete weed eradication before proceeding with plant material installation.
- The contractor should confirm that all organics, sod, weeds, roots, and debris have been removed to a depth of 12 inches in all areas designated for plant material installation. The removal of all pavement and pavement base material is mandatory in these areas. Any depressions or excavations created by the removal of objects or deviations from the approved finished grades should be refilled with clean coarse sand and compacted to match the surrounding ground's density.
- The landscape contractor is responsible for weed eradication within the designated planting areas before commencing landscape installation. Perennial weeds and grasses to be removed include, but are not limited to, nut grass, puncture vine, morning glory, dog fennel, torpedo grass, Bermuda grass, Bahia grass, Kikuyu grass, crabgrass, carpet grass, sedge, and other noxious or invasive weeds. The site must be kept weed-free throughout the planting operations.
- Before installation, the contractor should outline each shrub and groundcover bed and stake the locations of all trees/palms for approval by the owner's representative.
- Tree and palm pits must undergo vertical drainage testing by filling them with water twice in succession. If more than 6 inches of water is retained within one hour, it should be brought to the attention of the owner's representative. In the event that a tree or palm pit doesn't drain within a 24-hour period, the contractor will be required to provide a gravel sump, filter fabric, and a standpipe. All tree pit sumps must be included in the contractor's base bid as a unit price, with provisions for deduct alternatives if not required.
- Required amendments, including compost, must be applied uniformly to areas designated to receive sod and plant materials. Mechanical tilling is necessary to incorporate these amendments into the top 6 inches of the soil.
- Areas with dense compaction levels between 85% and 90% must undergo cross-ripping to a minimum depth of 8 inches. During tilling, the removal of unacceptable materials, such as foreign debris, construction waste, rocks, concrete, asphalt, and rocks larger than 1/2" in diameter on average, is required. In areas designated for sod, fertilizer should be tilled to a depth of 2" at a rate of 12 pounds per cubic foot.
- Following soil preparation, planting beds must be fine-graded to achieve a smooth and even surface, ensuring proper drainage away from structures and eliminating depressions that could collect water.
- The landscape contractor is responsible for fine grading and debris removal before planting in designated areas.
- The final finished grading should be reviewed by the owner's representative, and the contractor is responsible for providing any additional topsoil necessary to create a smooth surface suitable for planting.
- The application of "Surflan" or an equivalent pre-emergent herbicide is mandatory for all planting beds, following the manufacturer's recommended rate.
- All plant pits must be excavated to the dimensions indicated in the drawings.
- Plant materials must be centered in their pits, positioned for optimal visual effect, and set plumb for backfilling.
- Soil preparation should involve the following fertilizer applications, with the understanding that the soil mix design may need to be adjusted based on the results of agronomic testing: A. For trees, 100% site soil with 5 lb. of triple super phosphates per cubic yard. B. For shrubs, 100% site soil with Osmocote controlled-release fertilizer (14-14-14) following the manufacturer's recommendations.
- Trees should not be planted closer than 4' to a curb or hardscape element, unless otherwise specified. Vegetation that exceeds twenty-five (25) feet in height at maturity should not be planted closer than fifteen (15) feet from the vertical plane of an existing power line, excluding service wires.
- Trees overhanging into the public right-of-way should have a minimum clear trunk height of fourteen (14) feet over streets, drive aisles, alleys, and fire lanes, and a minimum clear trunk height of seven (7) feet over private streets, walks, and parking lots.
- Shrub/groundcover plantings shown in mass planting beds should be placed following a triangular spacing configuration as detailed in the drawings.
- The landscape contractor should schedule deliveries of sod so that all deliveries to the site are installed within 24 hours of arrival. The amount of sod delivered to the site at any one time should not exceed the amount that can be laid under these time constraints.
- The contractor should take care when placing sod, ensuring it is laid with staggered rows that run parallel to slope contours and with tight butt joints. In slope situations, sod installation should begin at the base of the slope and work uphill. All sod should be rolled and fertilized five days after planting, with a subsequent watering rate of 2" per week, including rainfall.
- Areas designated to receive sod should be graded to level out any undulations or irregularities resulting from tillage, fertilizing, or other operations. The resulting surface should be rolled to ensure that it does not exceed the height of adjacent paving or other grade elements after sod has been installed. Clean builders' sand should be used to fill any resulting voids or unevenness in the sod surface. Any areas requiring excessive top-dressing should have the sod removed, followed by regrading and re-sodding.
- The landscape contractor should adhere to the best horticultural practices, which include:
  - Protecting plant material from damage during delivery, staging, and installation.
  - Not commencing installation of shrub and groundcover materials until irrigation installation and finish grading are complete.
  - Avoiding installation of plant materials in winds exceeding 30 miles per hour.
  - Contacting the owner's representative if site conditions are likely to hinder the thriving of plant materials before installation.
  - Performing all work in compliance with all applicable laws, codes, and regulations, including permits and inspections as required by federal, state, and local jurisdictions.
  - Avoiding the use of cables and chains for lifting trees and using nylon straps a minimum of 4" in width instead.
  - Prohibiting the use of the 'choke' strapping method for lifting trees.
  - Not dropping plant materials.
  - Limiting the number of plants to be installed per day to those that can be adequately watered on the same day.
  - Carefully removing containerized plants from their containers to prevent root ball damage, with containers only removed immediately prior to installation and plants watered immediately after placement.
- Removing burlap and cutting steel baskets from at least the top third of the root ball for all balled and burlapped materials. Wire baskets should be removed to a minimum depth of 18".
- Ensuring plant material is installed at the correct elevation in relation to finish grade as indicated on the planting details.
- Setting fertilizer tablets on top of the root ball for all trees laid out for planting, allowing for the owner's representative to confirm the correct amount. Tablets should be set at a depth equal to the root ball when installed.

- Excavating planting pits for trees and shrubs to the dimensions specified on the planting details, with the surrounding area tamped firm and any air pockets removed.
- Applying rewetting agent to the surface of all plant pits for trees and shrubs according to the manufacturer's recommendations.
- Applying mulch to the depth indicated on the planting details only with approval from the owner's representative, after ensuring weed removal and fine grading requirements are met.
- Continuously monitoring the status of installed materials and making any necessary modifications, clean-ups, or replacements.
- Additional planting instructions should be referred to in the landscape planting details and/or specifications.
- A mulch ring with a minimum diameter of five (5) feet shall be provided around all newly planted trees, and it should not be located closer than six (6) inches from the tree trunk. The mulch ring should be sized to accommodate any staking or guying that may be necessary, which should also be placed within the mulch ring.
- All plant materials must be maintained in a healthy growing condition and must be replaced with plant materials of the same variety and size if they are damaged, destroyed, dead, or removed.
- Palms - Except as modified below or where the requirements are not appropriate to the specification of palms, palms shall meet all the requirements of the plant quality section above.
  - Defroning, tying, and hedging:
    - In preparing palm trees for relocation, all dead fronds shall be removed.
    - All remaining fronds above horizontal shall be lifted up and tied together around the crown in an upright position. Up to 2/3 of the oldest live fronds can be removed; all fronds can be removed on Sabal palms. Do not tie too tightly, bind or injure the bud. Jute binder twine shall be used in tying up the fronds; wire will not be permitted. Fronds shall be untied immediately after planting.
  - Digging the root ball:
    - When digging out the root ball, no evacuation shall be done closer than 24" inches to the trunk at ground level or as coordinated with the Landscape Architect, and the excavation shall extend below the major root system to a minimum depth of 3.5 feet. The bottom of the root ball shall be cut off square and perpendicular to the trunk below the major root system.
    - The Contractor shall not free-fall, drag, roll or abuse the tree or put a strain on the crown (bud area) at any time. A protective device shall be used around the trunk of the tree while lifting and relocating so as not to injure the bud, or scar or skin the trunk in any way.
- Tree Staking and Guying Material
  - Tree guying to be flat woven polypropylene material, 3/4 inch wide, and 900 lb. break strength. Color to be Green. Product to be ArborTie manufactured by Deep Root Partners, L.P. or approved equal.
  - Stakes shall be lodge pole stakes free of knots and of diameters and lengths appropriate to the size of plant as required to adequately support the plant.
  - Below ground anchorage systems to be constructed of 2 x 2 dimensional untreated wood securing (using 3 inch long screws) horizontal portions to 4 feet long vertical stakes driven straight into the ground outside the root ball.
- Submit manufacturer's product data for approval.
- Watering Bags
  - Plastic tree watering bags holding a minimum of 15 gallons of water and with a slow drip hole(s) water release system, specifically designed to water establishing trees. Water should release over a several day period, not within a few hours.
  - Watering bags shall be.
  - Treegator Irrigation Bags sized to the appropriate model for the requirements of the plant, manufactured by Spectrum Products, Inc., Youngsville, NC 27596.
  - Ooze Tubs sized to the appropriate model for the requirements of the plant, manufactured by Engineered Water Solutions, Atlanta, GA.
  - TreeDiaper sized to the appropriate models for the requirements of the plant, manufactured by.
  - Submit manufacturer's product data for approval.

PLANTERS / POTS / SEASONAL PLANTING NOTES

- The soil must consist of a nutrient-rich, moisture-retaining planting medium, with a minimum depth of eighteen (18) inches for seasonals, perennials, and small shrubs, and a minimum depth of thirty-six (36) inches for all trees.
- In each planter pot, a layer of river rock should be placed at a minimum depth of six (6) inches, or as allowed by the required soil depth. Filter fabric must be inserted between the soil medium and river rock, as well as between the soil medium and the planter edges. Ensure an overlap of at least 6 inches on the fabric to reduce soil erosion.
- Planter pots without irrigation should be watered manually. During cooler and rainy seasons, hand watering should occur a minimum of two (2) times per week, and this frequency should be increased to every two to three (2-3) days during hot and dry weather. Always check the soil's moisture level six (6) inches below the surface before watering to prevent overwatering and plant damage.
- For plants intended to remain in containers throughout the season, refer to the "permanent" layout. Each season will feature its own set of plant materials, with some plants lasting throughout the year. Rotate the plants as indicated for each season.
- If any plant material dies during a season and is expected to remain for an additional season, the contractor should replace it during the next seasonal rotation.
- Contact ETM for any necessary plant substitutions.
- All plants should be in full growth at the time of installation and cover at least seventy-five (75) percent of the pot's surface area.

POST PLANTING AND WARRANTY NOTES

- Maintenance:
  - During the project work period before substantial completion acceptance, the contractor is responsible for maintaining all plant material.
  - Maintenance during this pre-substantial completion phase includes tasks such as watering, cultivating, weeding, mulching, mowing, removal of dead material, adjusting and securing stakes and supports, realigning plants to their correct positions, and applying necessary sprays to protect the plant material from damaging insects and diseases.
  - The contractor is also accountable for hand watering the plant material as needed to supplement natural irrigation and rainfall, ensuring the establishment of the plant material.
- Substantial Completion Acceptance:
  - Upon receiving written notice from the contractor, the owner's representative will conduct a thorough review of the work to determine if it has achieved substantial completion.
  - For acceptance purposes, all plant material should be in a healthy, vigorous condition, free of damage, weeds, and disease, and should show evidence of establishing new roots. Any plant material deemed unacceptable must be removed and replaced.
  - The substantial completion date for the planting work is the date when the owner's representative provides written acceptance that all planting-related tasks are finished.
- Warranty:
  - The contractor is required to provide a written warranty for all plant material, valid for a period of one (1) year from the date of written notification of substantial completion. Any replacement of plant material during the warranty period is the responsibility of the contractor and inherits the same one-year warranty from the date of replacement.

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 2023-01

DRAWN BY: AA

DESIGNED BY: JFK

CHECKED BY: JFK

DATE: MARCH 2025

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LANDSCAPE NOTES

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER

L001

PLANNED BY: JONATHAN F. KORMAN, P.L.A.  
L.A. NUMBER: 6867357

PLOTTED: March 27, 2025 — 4:40 PM, BY: Kevin Ferguson



PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	CAL	REMARKS	NATIVE
LARGE TREES								
MG-4	4	MAGNOLIA GRANDIFLORA 'D.D. BLANCHARD' TM	SOUTHERN MAGNOLIA	SIZE AS NEEDED	16" HT. X 6" SPD.	4" CAL.		NATIVE
MV	5	MAGNOLIA VIRGINIANA	SWEET BAY	SIZE AS NEEDED	12-14" HT. X 5" SPD.	3" CAL.		NATIVE
PD-3	2	PINUS ELLIOTTII DENSE	SLASH PINE	SIZE AS NEEDED	10-12" HT. X 3-4" SPD.	3" CAL.		
QV-4	8	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	SIZE AS NEEDED	14-16" HT. X 6" SPD.	4" CAL.		NATIVE
TD-4	3	TAXODIUM DISTICHUM	BALD CYPRESS	SIZE AS NEEDED	14-16" HT. X 6" SPD.	4" CAL.		NATIVE

SMALL TREES								
CV	4	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	SIZE AS NEEDED	6'-8" HT. X 3'-4" SPD.	3" CAL.		NATIVE
LNS-4	6	LAGERSTROEMIA X 'NATCHEZ'	WHITE STANDARD TRUNK CRAPE MYRTLE	SIZE AS NEEDED	12-14" HT. X 5" SPD.	4" CAL.		
LS2	6	LIQUIDAMBAR STYRACIFLUA 'SLENDER SILHOUETTE'	SLENDER SILHOUETTE SWEET GUM	SIZE AS NEEDED	8" HT. X 3-4" SPD.	2.5" CAL.	SEE HTTPS://CHERRYLAKE.COM/	NATIVE

PALM TREES								
SP-16	3	SABAL PALMETTO	CABBAGE PALMETTO	SIZE AS NEEDED	16' CT.		REGENERATED, SLICK TRUNK	NATIVE
SP-18	3	SABAL PALMETTO	CABBAGE PALMETTO	SIZE AS NEEDED	18' CT.		REGENERATED, SLICK TRUNK	NATIVE
SP-20	3	SABAL PALMETTO	CABBAGE PALMETTO	SIZE AS NEEDED	20' CT.		REGENERATED, SLICK TRUNK	NATIVE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE		REMARKS	NATIVE
SHRUBS								
FS	36	FORESTIERA SEGREGATA	FLORIDA PRIVET	SIZE AS NEEDED	30" HT. MIN X 30" SPD. MIN.		SEE HTTPS://CHERRYLAKE.COM/	NATIVE
IV	135	ILEX VOMITORIA	YAUPON HOLLY	SIZE AS NEEDED	24" HT. X 24" SPD.			NATIVE
MF	59	MYRSINANTHES FRAGRANS	SIMPSON STOPPER	SIZE AS NEEDED	24" HT. X 18" SPD.			NATIVE
PMP	72	PODOCARPUS MACROPHYLLUS 'PRINGLES'	PRINGLES DWARF YEW	SIZE AS NEEDED	24" HT. X 24" SPD.			
VOB	21	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	SIZE AS NEEDED	36" HT. X 36" SPD.			NATIVE
VOS	32	VIBURNUM OBOVATUM 'MS. SCHILLER'S DELIGHT'	MS. SCHILLER'S DELIGHT WALTER'S VIBURNUM	SIZE AS NEEDED	18" HT. X 24" SPD.			NATIVE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING	REMARKS	NATIVE
SHRUB AREAS								
HPC	28	HAMELIA PATENS 'CALUSA'	CALUSA FIREBUSH	SIZE AS NEEDED	24" HT. X 24" SPD.	30" o.c.	SEE HTTPS://CHERRYLAKE.COM/	
IVA	71	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS DWARF	SIZE AS NEEDED	18" HT X 18" SPD.	30" o.c.		NATIVE
MCA	166	MUHLENBERGIA CAPILLARIS	PINK MUHLY	SIZE AS NEEDED	12" HT. X 12" SPD.	30" o.c.		NATIVE
SBA	544	SPARTINA BAKERI	SAND CORDGRASS	SIZE AS NEEDED	18" HT. X 12" SPD.	36" o.c.		NATIVE
SRA	24	SERENOA REPENS	SAW PALMETTO	SIZE AS NEEDED	18" HT.X 18" SPD.	36" o.c.		NATIVE
ZFA	341	ZAMIA FLORIDANA	COONTIE PALM	SIZE AS NEEDED	18" HT.X 18" SPD.	30" o.c.		NATIVE

GROUND COVERS								
JB	143	JUNIPERUS CONFERTA 'BLUE PACIFIC'	BLUE PACIFIC JUNIPER	SIZE AS NEEDED	12" HT. X 18" SPD.	24" o.c.		
LS3	790	LIRIOPE MUSCARI 'SUPER BLUE'	SUPER BLUE LILYTURF	SIZE AS NEEDED	12" HT. X 12" SPD. MIN.	12" o.c.		
TA	1,049	TRACHELOSPERMUM ASIATICUM 'ASIATIC'	ASIATIC JASMINE	SIZE AS NEEDED	12" SPD. MIN., 5-7 P.P.P. MIN.	12" o.c.		

SOD/SEED					
SOD-D	4,398 SF	ZOYSIA X 'PALISADES'	PALISADES ZOYSIA	SOD	
MULCH	QTY:	DEPTH:	REMARKS		
PINE STRAW	TBD	3"-4"	LONGLEAF PINE STRAW		

PINE FINES	TBD	3"-4"	ALL PLANTING BEDS FEATURING ASIATIC JASMINE (TA) AND SUPER BLUE LILYTURF (LS3) TO BE MULCHED WITH PINE FINES		
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NASSAU COUNTY NOTES:

- 1) ALL PLANTS WILL BE FULLY IRRIGATED AS PER 37.05(G)(1).
- 2) ALL TREES PLANTED WILL BE STAKED OR GUYED FOR A PERIOD OF AT LEAST 6 MONTHS AS PER 37.05(B)(2).
- 3) THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS, INCLUDING IRRIGATION, MOWING, TRIMMING, FERTILIZING, & CARRYING OUT THE ACTIVITIES TO KEEP THE PLANT MATERIAL IN A HEALTHY AND GROWING CONDITION, MAINTAIN VISUAL CLEARANCE, & ALLOW PASSAGE OF VEHICLES & PEDESTRIANS ON PUBLIC ROADS & NON-EXCLUSIVE EASEMENTS AS PER 37.05(J).
- 4) AREAS OF THE LANDSCAPE PLAN SHOWN WITH HATCHING SHALL INCLUDE EMBELLISHED LANDSCAPE MATERIAL. ADDITIONAL DROUGHT-TOLERANT, NATIVE LANDSCAPING SHALL BE ADDED TO THE AREAS ALONGSIDE THE MULTI-USE PATHS AND IN GRASSED AREAS BESIDE THE ROUNDABOUT AND WITHIN PROPOSED MEDIANS TO ENHANCE THE EASTERN GATEWAY TO WILDLIGHT.
- 5) ONCE ALL UTILITY DESIGNS HAVE BEEN FINALIZED, ADDITIONAL LANDSCAPING AND SPECIES WILL BE ADDED AND A SEPARATE LANDSCAPING PLAN WILL BE REQUIRED. FINAL LANDSCAPE PLANS FOR HATCHED AREAS SHOWN HEREON SHALL BE SUBMITTED WITHIN ONE YEAR OF THE PRESENT SITE ENGINEERING PLAN APPROVAL. SPECIES USED IN THESE AREAS SHALL INCORPORATE ALL SPECIES INCLUDED ON THE FUTURE LANDSCAPING SPECIES LIST INCLUDED IN THE PRESENT APPROVAL.

NASSAU COUNTY CODE REQUIREMENTS:

PROTECTED TREE PRESERVATION/REPLACEMENT  
Not required: the Development area is under an active silviculture permit

PERIMETER LANDSCAPING  
All arterial and collector roadways, as identified by the comprehensive plan, shall provide a strip of pervious land adjacent and parallel to the right-of-way line having an average width of fifteen (15) feet and a minimum width of seven and one-half (7½) feet along the entire street frontage except for permitted driveways. This perimeter landscaping strip shall contain a minimum of three (3) canopy trees per one hundred (100) linear feet of property frontage and three (3) understory trees per one hundred (100) linear feet of property frontage.

Local streets. A strip of pervious land adjacent and parallel to the street line having a minimum width of ten (10) feet along the entire street frontage except for permitted driveways. This perimeter landscaping strip shall contain a minimum of two (2) canopy trees per one hundred (100) linear feet of property frontage and three (3) understory trees per one hundred (100) linear feet of property frontage.

INTERIOR LANDSCAPING  
Each separate interior landscaped island shall contain a minimum of one hundred sixty-six (166) square feet and shall be at least ten (10) feet wide as measured from back of curb. A minimum of one (1) canopy tree shall be planted in each interior landscaping island.

Fifty (50) percent of the plants used in all vehicular use area landscape designs should be drought tolerant and located in groupings according to zones designated by the water requirements.

DEVELOPMENT BUFFERS  
Not required: adjacent properties are consistent in use

NON-RESIDENTIAL DEVELOPMENTS  
In addition to the buffer and perimeter landscaping adjacent to a right-of-way requirements found in this section, each commercial and/or industrial development must provide a minimum of ten (10) percent of the lot or parcel as pervious green space planted with one (1) or more species of tree listed in Tables 37-1 or 37-2 for every five hundred (500) square feet of such green space.

Parcel Area: 60,743 SF  
10% Pervious Green Space  
1 or More Tree for Every 500 SF

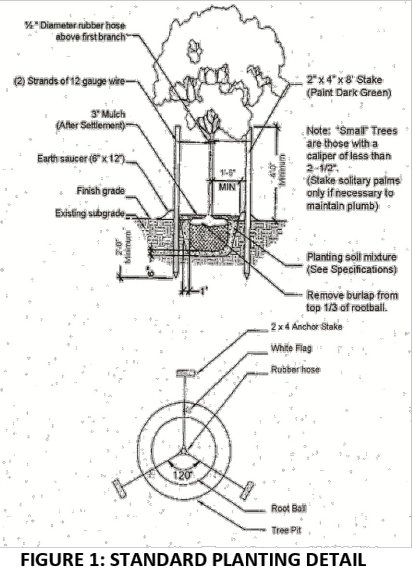
Required: 6,074.3 SF  
Required: 13 Trees

Provided: +15,753 SF  
Provided: +16 Trees

NASSAU COUNTY NOTES:

1. LDC Section 37.05 (B) – Plant material. All installed trees, shrubs and groundcovers shall conform to the standards for Florida Grade #1 or better according to the current edition of "Grades and Standards for Nursery plants" published by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
2. LDC Section 37.05 (B)(1) – All trees shall be planted in a minimum dimension of ten (10) feet. This minimum planting area must be free of all pavement and vehicle overhang in order to prevent possible tree damage.
3. LDC Section 37.05 (B)(2) – Shrubs shall have a minimum height of eighteen (18) inches when planted. When planted as a hedge, the maximum spacing is 30 inches on center. All shrubs used for visual screening shall be of a plant species that is capable of reaching a height of four (4) feet within twenty-four (24) months under normal growing conditions. Shrubs used as accent ground cover and vines may vary in size depending on the type of plant material and the desired effect.
4. LDC Section 37.05 (B)(3) – Groundcovers shall be planted in such manner as to present a finished appearance and complete coverage within one (1) year after planting.
5. LDC Section 37.05 (B) – All trees planted shall be staked or guyed for a period of at least six (6) months in accordance with the adopted planting detail.
6. LDC Section 37.05 (H)(4) – All planting areas shall be mulched with approximately three inches of organic mulch, such as pine bark or shredded hardwood chips.
7. LDC Section 37.05 (K) – The property owner is responsible for the maintenance of all landscape areas required by this section. Maintenance includes irrigating, mowing, trimming, fertilizing and carrying out those activities necessary to keep the plant material in a healthy and growing condition, maintain visual clearance and allow passage of vehicles and pedestrians on public roads and non-exclusive easements.
8. LDC Section 37.05 (K)(1) – Upon determination by the county that a required tree or plant is dead or severely damaged or diseased, the tree or plant shall be replaced by the owner with plant material meeting the requirements of this section.
9. LDC Section 37.05 (K)(2) – All buffer areas required as part of a development plan, whether in common or private ownership, shall be the responsibility of that development's property owners' association. Where there is no property owners' association, such landscaped areas shall be the responsibility of the property owner.
10. LDC Section 37.05 (K)(3) – Trees on developed properties may be pruned to maintain shape and promote their shade-giving qualities. They should be pruned to remove diseased or dying portions in areas where falling limbs could be a hazard to people or property. Lower limbs may be removed to provide clearance. In addition, trees located in association with vehicular use areas shall also be pruned to allow a seven-foot clearance from ground level to avoid potential for damage or injury to pedestrians and cleared to thirteen (13) above pavement level for vehicles. However, the excessive pruning or pollarding of trees into round balls of crown or branches resulting in an unnecessary reduction of shade is prohibited and may require supplemental plantings.
11. LDC Section 37.05 (E)(1) – At the intersection of two (2) streets, all landscaping within that area defined by the Florida Department of Transportation sight triangle, as outlined in the FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System shall be installed and maintained below three (3) feet in height or above eight (8) feet in height.
12. LDC Section 37.05 (E)(2) – When a driveway intersects a right-of-way, clear unobstructed cross visibility shall be provided within the site triangle formed by such intersection. The sight triangle shall be measured from the point of intersection, fifteen (15) feet along the access way and then fifteen (15) feet along the right-of-way, with the third side being a line connecting the two (2) points. Cross visibility within the sight triangle shall be unobstructed between the height of three (3) feet and eight (8) feet measured from the ground line. Trees and palms shall have their limbs and foliage trimmed in a manner that no limbs or foliage will extend into the cross visibility area. To ensure proper visibility at the intersection of access ways with public rights-of-way, excluding properly trimmed trees as previously stated, only ground cover type plants shall be allowed within the sight triangle.
13. LDC Section 37.05 (D) – The use of a wall or fence is permitted provided the wall or fence is located on the inner most boundary (behind the vegetation as viewed from outside the development) of the perimeter landscaping adjacent to rights-of-way/streets, required uncomplimentary land use buffer or other landscaped area.

All pruning shall be done following the American National Standard for Tree Care Operations "Tree, Shrub and Other Woody Plant Maintenance - Standard Practices."



NASSAU COUNTY PLANNING DEPARTMENT	REVISION DATES		REQUIRED LANDSCAPE NOTES	NOTE SHEET: DWG: ISSUED: 10/13/2023

TREES PLANTED

QUANTITY	COMMON NAME	TYPE	NATIVE	PERCENT OF TREES
3	Bald Cypress	Canopy	Y	6.5%
4	Southern Magnolia	Canopy	Y	8.7%
5	Sweetbay Magnolia	Canopy	Y	10.9%
2	Longleaf Pine	Non-Canopy	Y	4.3%
8	Live Oak	Canopy	Y	17.4%
5	Crape Myrtle	Non-Canopy	N	10.9%
6	Sweetgum	Non-Canopy	N	13.0%
9	Sabal Palm	Non-Canopy	N	19.6%
4	Fringe Tree	Non-Canopy	N	8.7%
46				100.0%

PERIMETER BUFFER

Kindred Lane	236 L.F.	REQUIRED	PROVIDED
Canopy Trees (2 per 100')		5	5
Understory Trees (3 per 100')		7	7

Area of Perimeter Landscaping Strip (s) - 37.05.D	Length	Avg. Width	Square Feet
A1A; US-1; US-301 - 25' Average Width	0	25	0
Arterial/Collector - 15' Average Width	0	15	0
Local Road - 10' Width	236	10	2,360
Total Perimeter Strip Area >>>			2,360

LANDSCAPE MATERIALS SPECIFICATIONS

1. Aluminum Sulfate: For horticultural use, it must adhere to the recognized manufacturer's standard and be of commercial-grade quality.
2. Anti-Dessicant: Utilize 'Wilt-Pruf,' 'Dowwax,' 'Foligard' (or equivalent) following the manufacturer's recommendations.
3. Burlap: In all 'B&B' nursery stock, burlap must consist of 100% biodegradable natural fibers, meeting ANSI Z-601 standards. No synthetic fabric (e.g., leno) is permitted. All 'B&B' materials must be sourced from established nurseries or approved locations.
4. Dolomite: Ground limestone with a minimum of 85% total carbonate, ground to a size where 50% will pass through a 100 mesh sieve, and 90% will pass through a 200 mesh sieve.
5. Fertilizer Tablets: Use 21-grm slow-release 'Agriform' planting tablets, such as those manufactured by Sierra Chemical Company (or equivalent). These tablets should contain 20% nitrogen, 10% phosphoric acid, and 5% potash. Apply following the manufacturer's recommended rates as specified below:

A. One (1) tablet per one-half (1/2) inch of tree caliper.

B. One (1) tablet per ten (10) gallon shrub container.

C. Two (2) tablets per three (3) gallon shrub container.

D. Three (3) tablets per five (5) gallon shrub container.

E. Four (4) tablets per seven (7) gallon shrub container.

F. Five (5) tablets per ten (10) gallon shrub container.
6. Friction Guard: New, with a minimum ~1" inside diameter, reinforced, 2-ply black rubber hose.
7. Guy Wire: Wire should be 10-gauge annealed galvanized iron, each wire marked with white surveyor's tape or ~1" diameter white tubing.
8. Mulch: Use mini-pine bark of dark brown color.
9. Osmocote: Employ time-controlled release fertilizer like that produced by Sierra Chemical Company.
10. Peat: Use milled Canadian sphagnum peat with a minimum of 10% organic content, low salt, low alkalinity, light brown and fibrous, free from rocks and excessive sticks, with a consistent pH level between 4.0 and 5.0, containing no particles larger than 1/2" in diameter.
11. Compost: Utilize Life Soils Comand compost.
12. Perlite: Coarse or No.2 perlite, free from weeds and impurities.
13. Pre-Emergent Herbicide: Commercial-grade pre-emergent herbicide combining Surflan and Gallery with a dye marker, applied following the manufacturer's recommendations.
14. Sand: Use medium-coarse sand, grade Cortona, free-draining, with a fine plus very fine ratio not exceeding 25% by volume.
15. Soil Fumigant: Apply Basamid granular according to the manufacturer's recommendations in all areas receiving sod.
16. Tree Guys: 'Tree Saver' as manufactured by Lawson Landscape Products (or equivalent).
17. Tree Stakes: New, minimum 2" diameter x 8'-0" pressure-treated lodgepole pine, pointed at one end, with at least 50% of the pole embedded.
18. Tree Ties: 'Cinch Ties,' 32" as manufactured by V.I.T. Products Inc. (or equivalent).
19. Triple Super Phosphate: Granular commercial-grade, 42-47% P2O5.
20. Turnbuckles: 6" long, galvanized steel to be hand-tightened.
21. Ret wetting Agent: Use 'SaturAid' as manufactured by Florika E.S. A. Corp (or equivalent).
22. Underground Tree Anchor System: Utilize 'TreeFrog' or an approved alternative.

LANDSCAPE OBSERVATION SCHEDULE

1. The landscape contractor must provide the owner's representative with advanced notice for the following site visits within the specified timeframes. It is the responsibility of the general contractor to confirm the status of the landscape work before forwarding the request to the owner's representative to ensure that the landscape installation is ready for the relevant review:

A. Tree tagging assistance: 10 days prior

B. Plant layout review: 3 days prior

C. Punch list (substantial completion) review: 7 days prior

D. Landscape Certification (as required for As-Built Certification by the local municipality): 7 days prior
2. The contractor is responsible for maintaining a clean and up-to-date set of documents on-site at all times. Drawings must be readily available for review by the owner, design team, and agency inspectors.

LANDSCAPE CODE CALCULATIONS AND

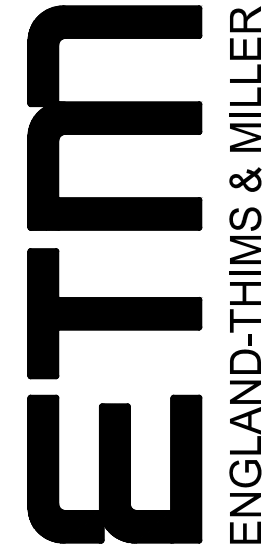
PLANT SCHEDULE

CVS AT WILDLIGHT

FOR

BOOS DEVELOPMENT GROUP, INC

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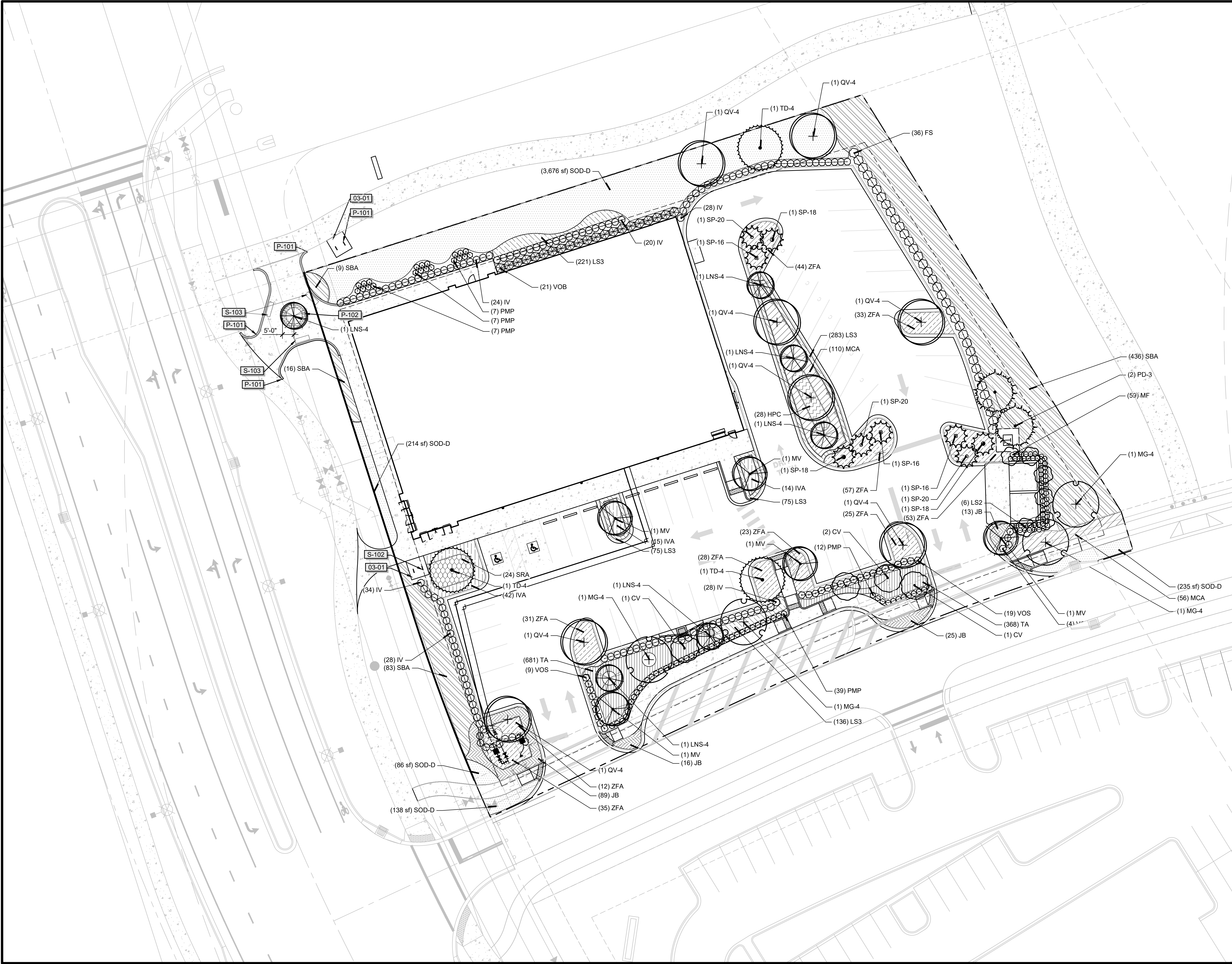
REVISIONS:  
2025.02.03 - REV. PER AGENCY COMMENTS  
2025.03.02 - REV. PER AGENCY COMMENTS

ETM NO. 23-128-01	AA	JFK	JFK	MARCH 2025
DRAWN BY:	DESIGNED BY:	CHECKED BY:	DATE:	

PLANS PREPARED UNDER  
THE DIRECTION OF:

JONATHAN F. KORMAN, P.L.A.  
L.A. NUMBER: 6867357

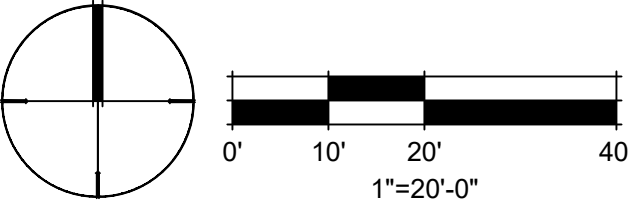




REFERENCE NOTES SCHEDULE	
CODE	DESCRIPTION
03-01	CONCRETE REINFORCED SLAB EDGE
P-101	CONCRETE PAVEMENT
P-102	24" HT. RAISED PLANTER/SEATING WALL
S-102	CONCRETE PAVEMENT
S-103	BIKE RACK
S-103	BENCH

PLANT SCHEDULE

SYMBOL	CODE	COMMON NAME
LARGE TREES		
MG-4	MG-4	SOUTHERN MAGNOLIA
MV	MV	SWEET BAY
PD-3	PD-3	SLASH PINE
QV-4	QV-4	SOUTHERN LIVE OAK
TD-4	TD-4	BALD CYPRESS
SMALL TREES		
CV	CV	WHITE FRINGETREE
LNS-4	LNS-4	WHITE STANDARD TRUNK CRAPE MYRTLE
LS2	LS2	SLENDER SILHOUETTE SWEET GUM
PALM TREES		
SP-16	SP-16	CABBAGE PALMETTO
SP-18	SP-18	CABBAGE PALMETTO
SP-20	SP-20	CABBAGE PALMETTO
SHRUBS		
FS	FS	FLORIDA PRIVET
IV	IV	YAUPOH HOLLY
MF	MF	SIMPSON STOPPER
PMP	PMP	PRINGLES DWARF YEW PODOCARPUS
VOS	VOS	WALTER'S VIBURNUM
VOS	VOS	MS. SCHILLERS DELIGHT WALTER'S VIBURNUM
SHRUB AREAS		
HPC	HPC	CALUSA FIREBUSH
IVA	IVA	SCHILLINGS DWARF
MCA	MCA	PINK MUHLY
SBA	SBA	SAND CORDGRASS
SRA	SRA	SAW PALMETTO
ZFA	ZFA	COONTIE PALM
GROUND COVERS		
JB	JB	BLUE PACIFIC JUNIPER
LS3	LS3	SUPER BLUE LILYTURF
TA	TA	ASIATIC JASMINE
SOD/SEED		
SOD-D	SOD-D	PALISADES ZOYSIA





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PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 23-128-01

DRAWN BY: AA

DESIGNED BY: JFK

CHECKED BY: JFK

DATE: MARCH 2025

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**ETM**

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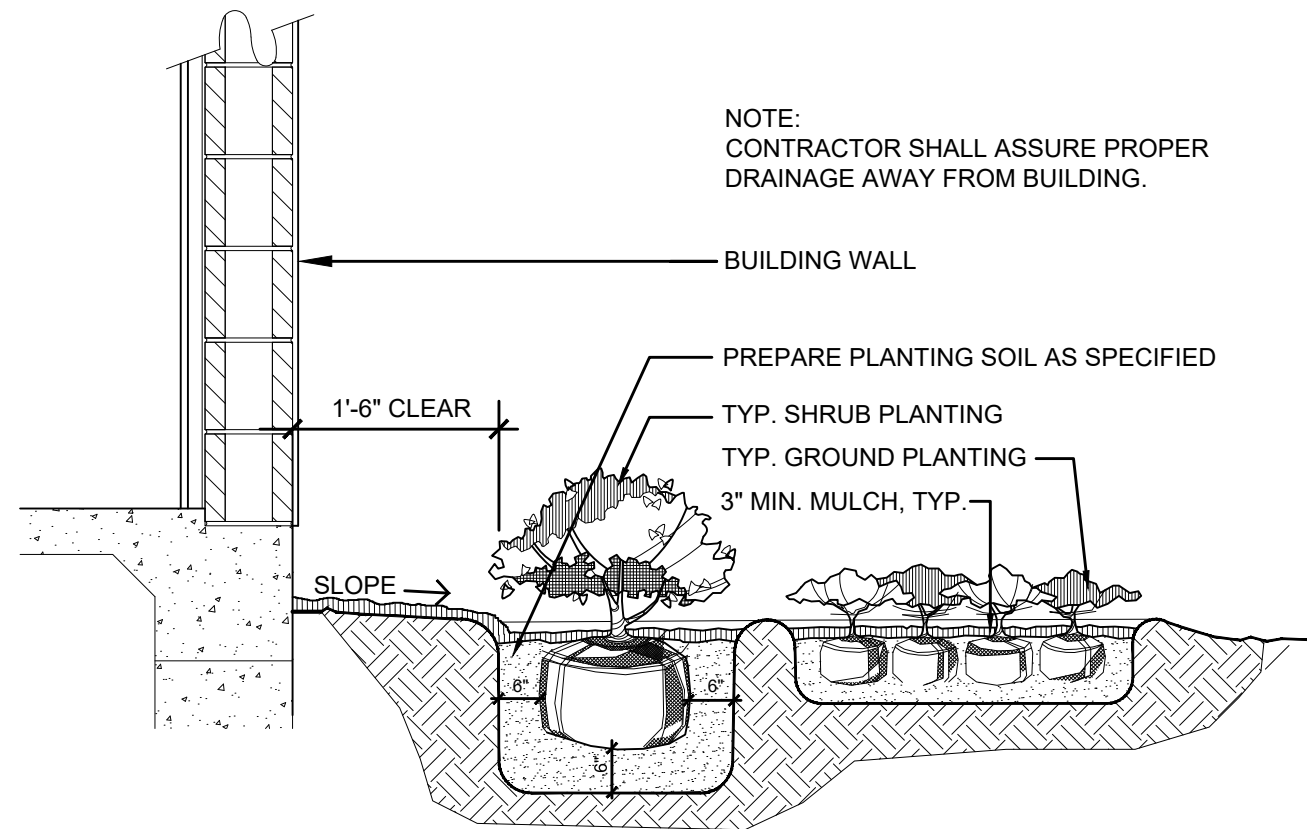
LANDSCAPE PLAN

CVS AT WILDLIGHT FOR BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER

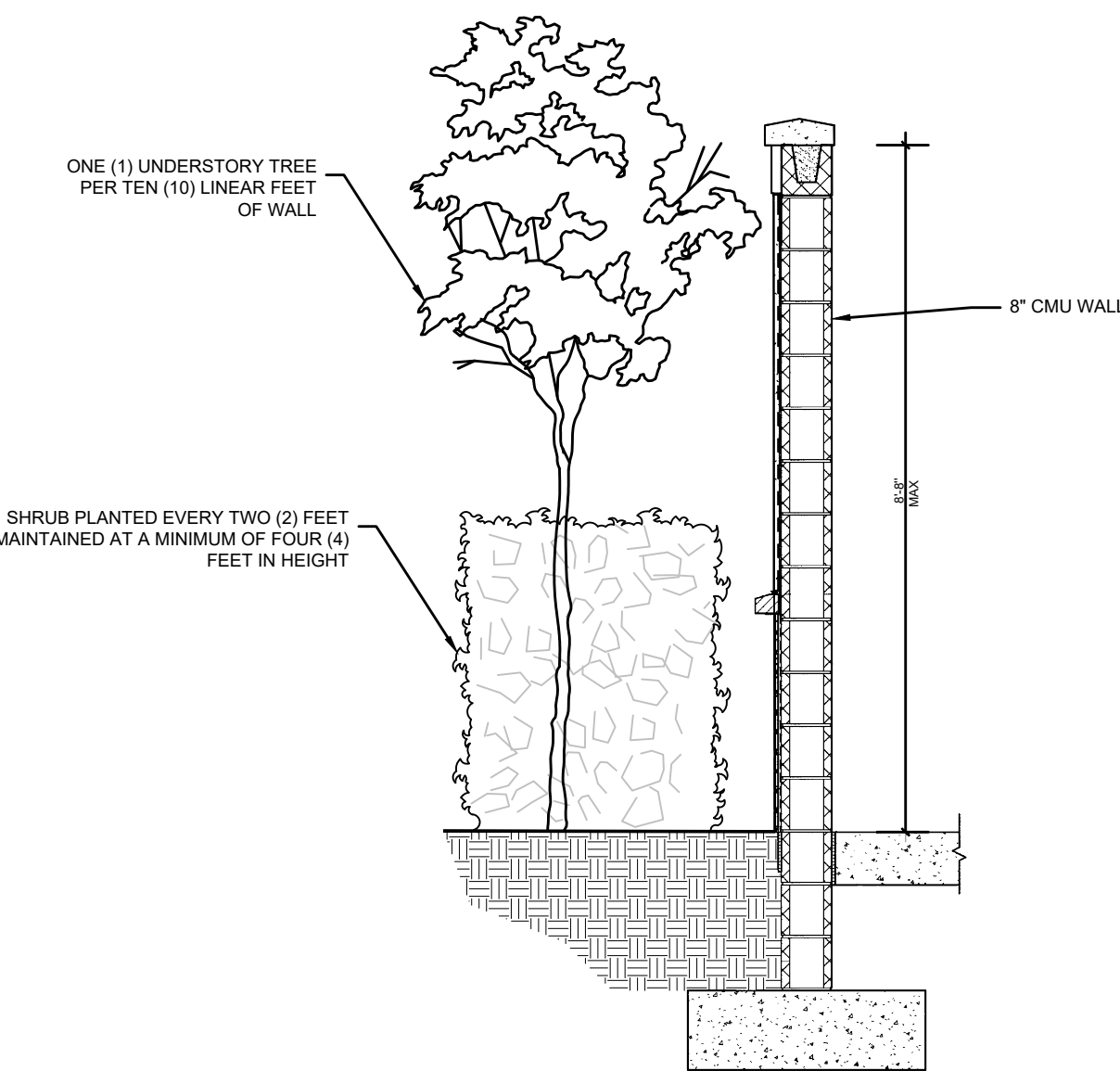
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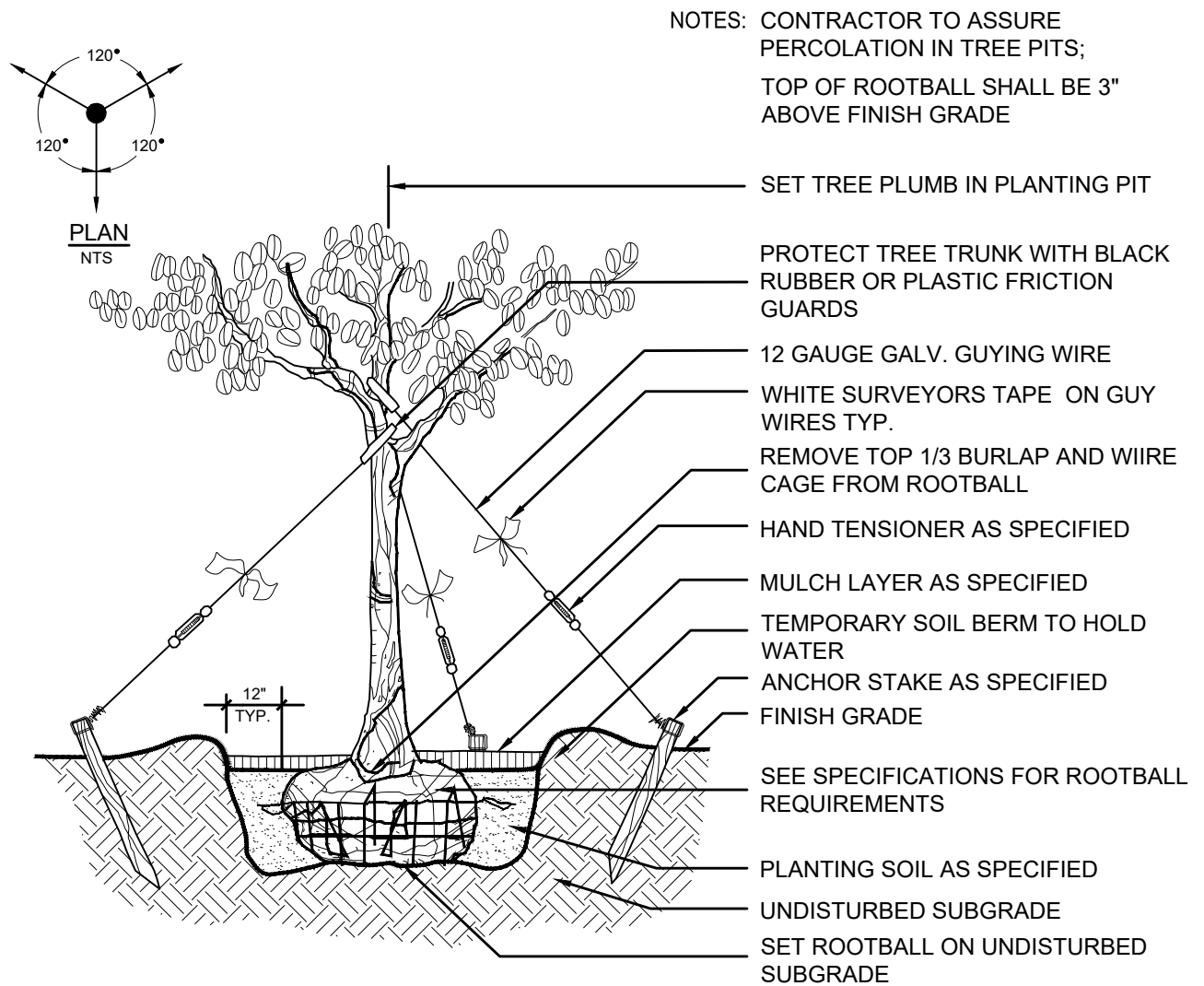
TYPICAL SHRUB AND GROUND PLANTING DETAIL  
AT BUILDING FOUNDATION

SCALE: NTS



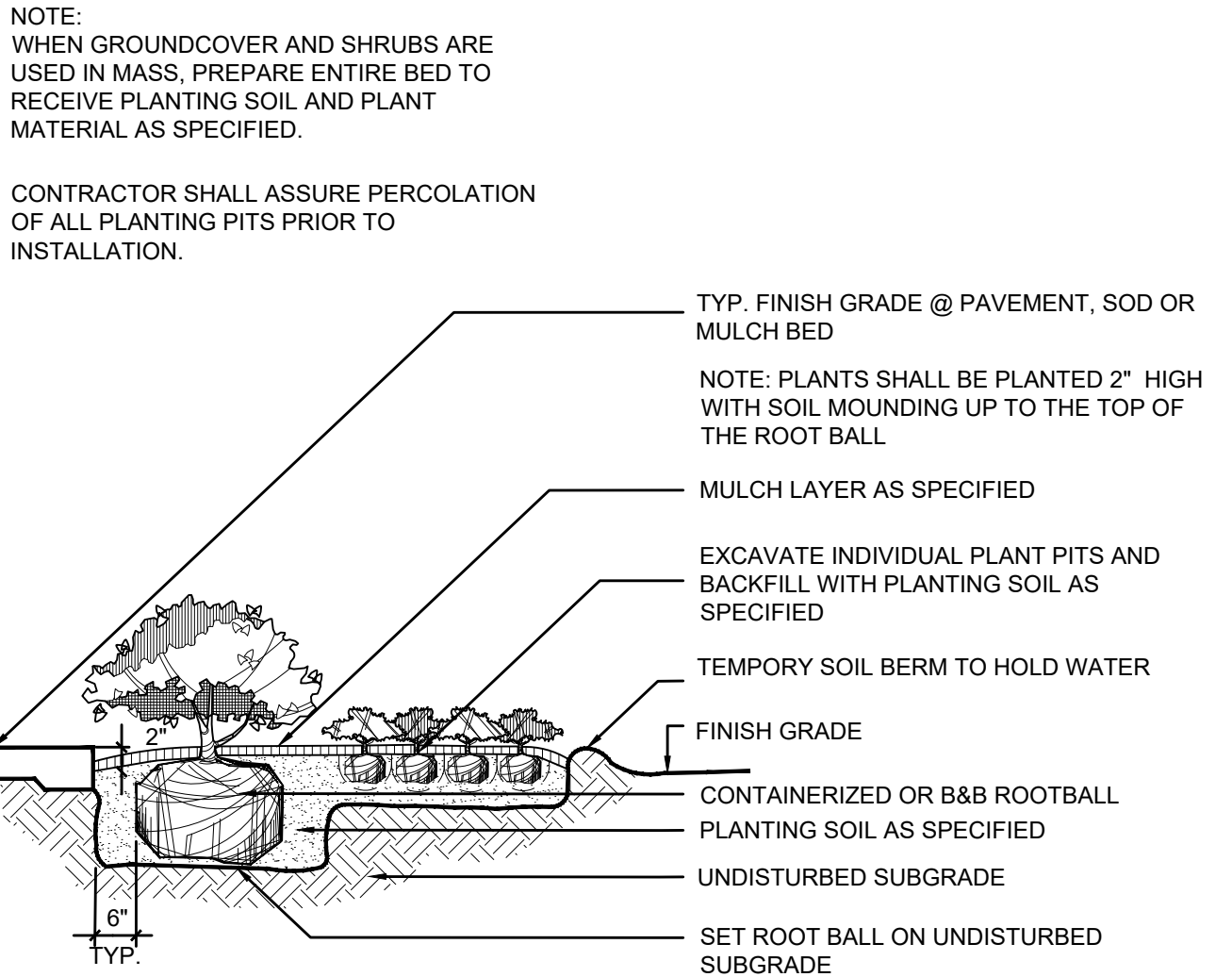
TRASH COMPOUND SCREENING- CMU WALL AND LANDSCAPING

SCALE: NTS



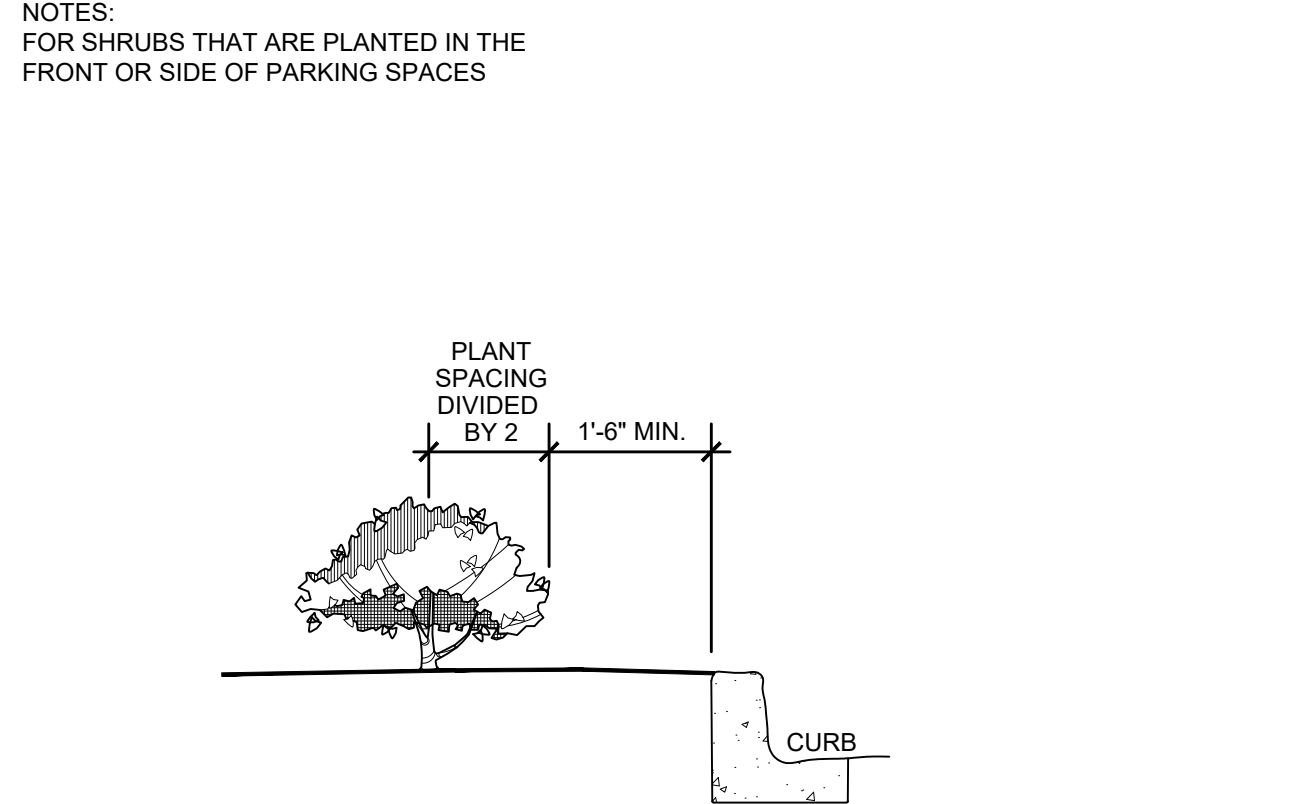
LARGE TREE PLANTING DETAIL (4" CALIPER AND LARGER)

SCALE: NTS



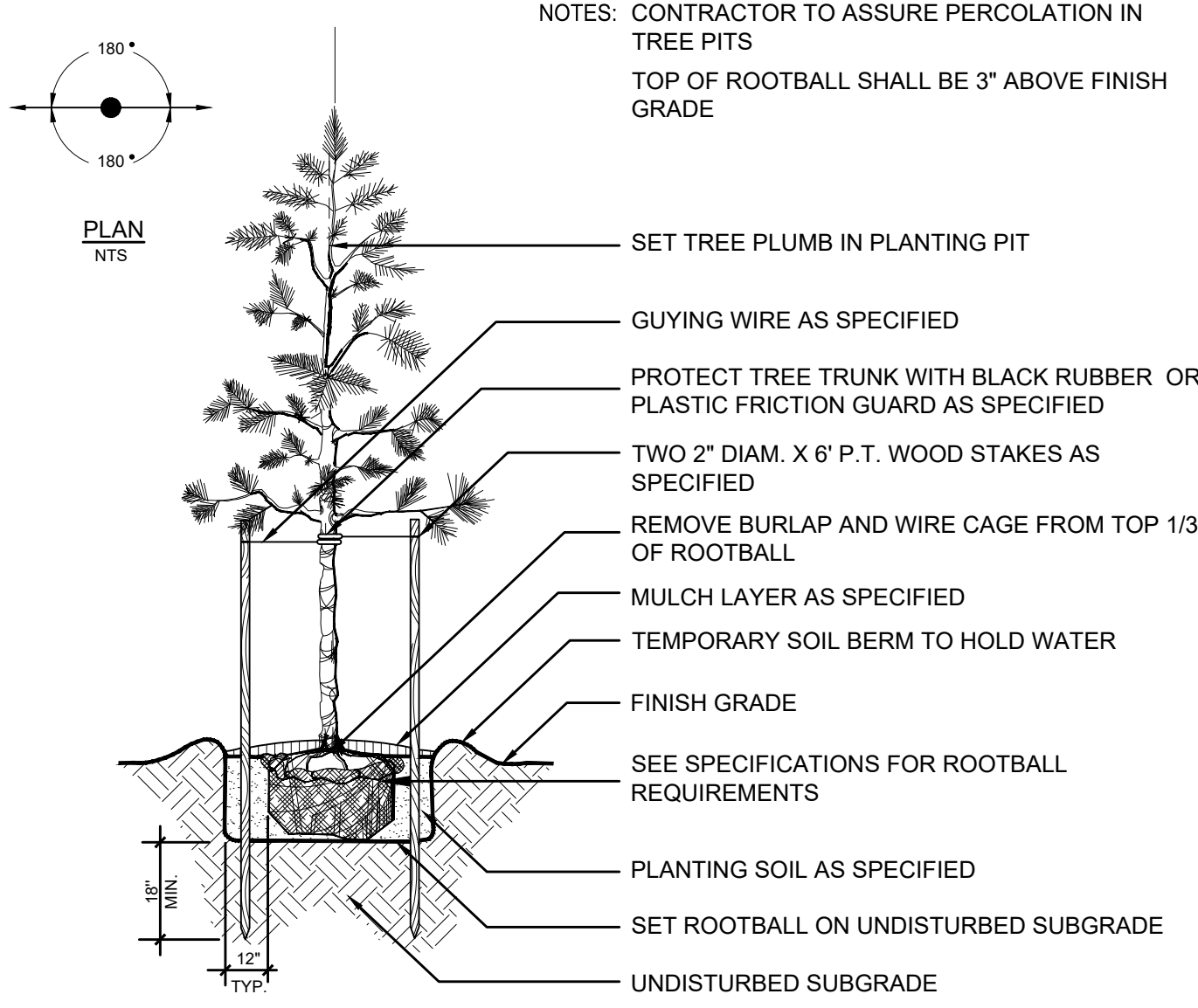
SHRUB AND GROUNDCOVER PLANTING DETAIL

SCALE: NTS



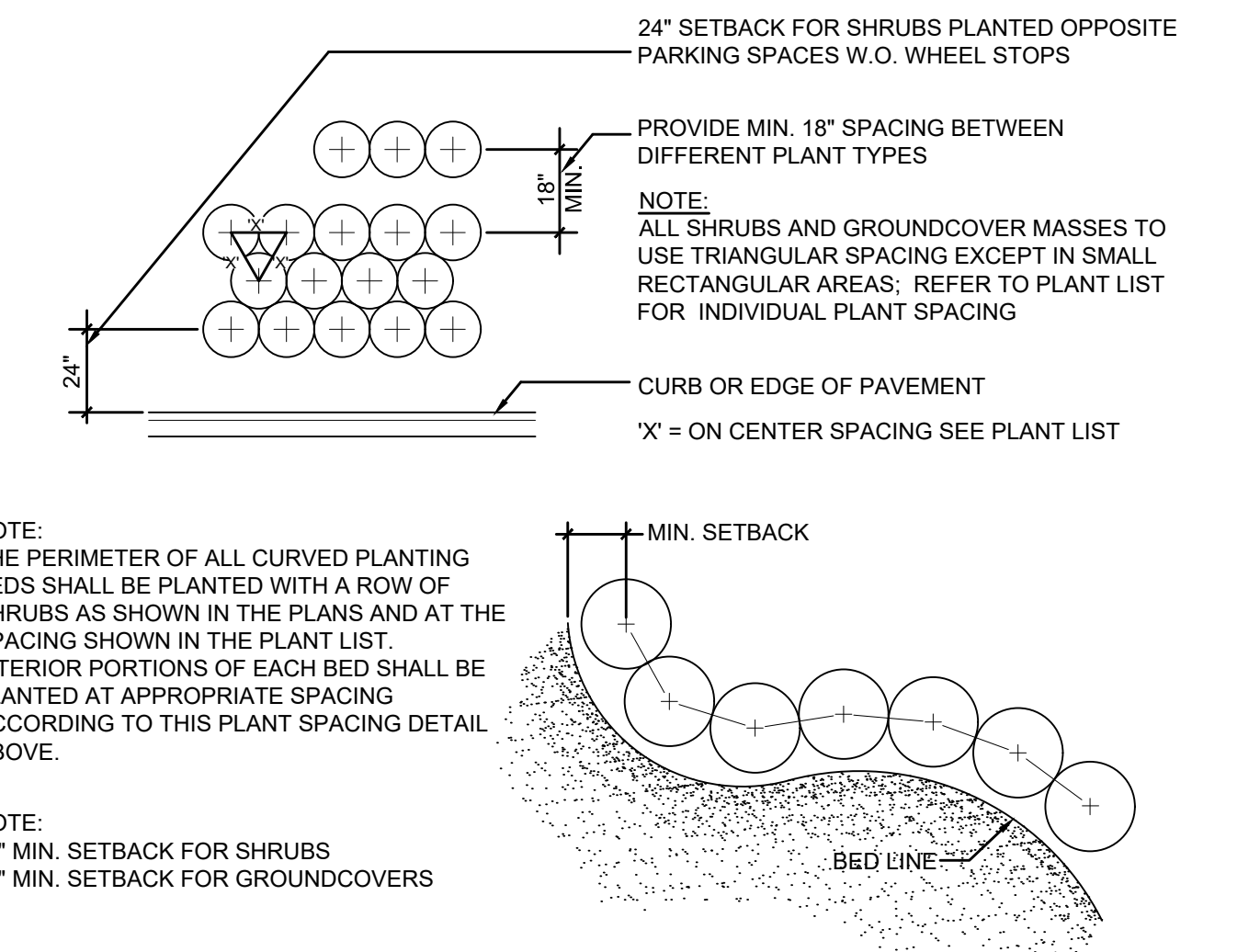
PARKING SPACE SHRUB DETAIL

SCALE: NTS



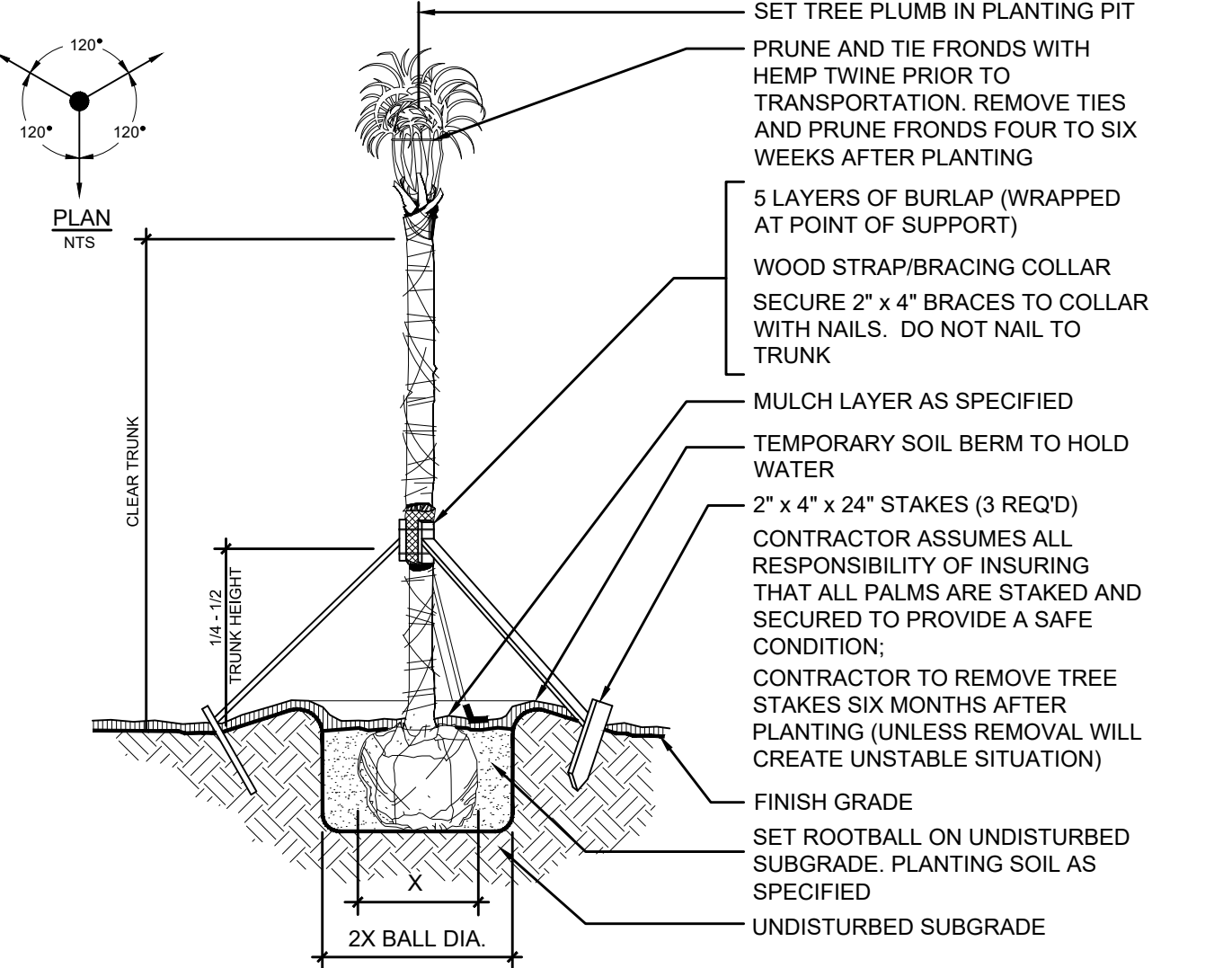
PINE TREE PLANTING DETAIL

SCALE: NTS



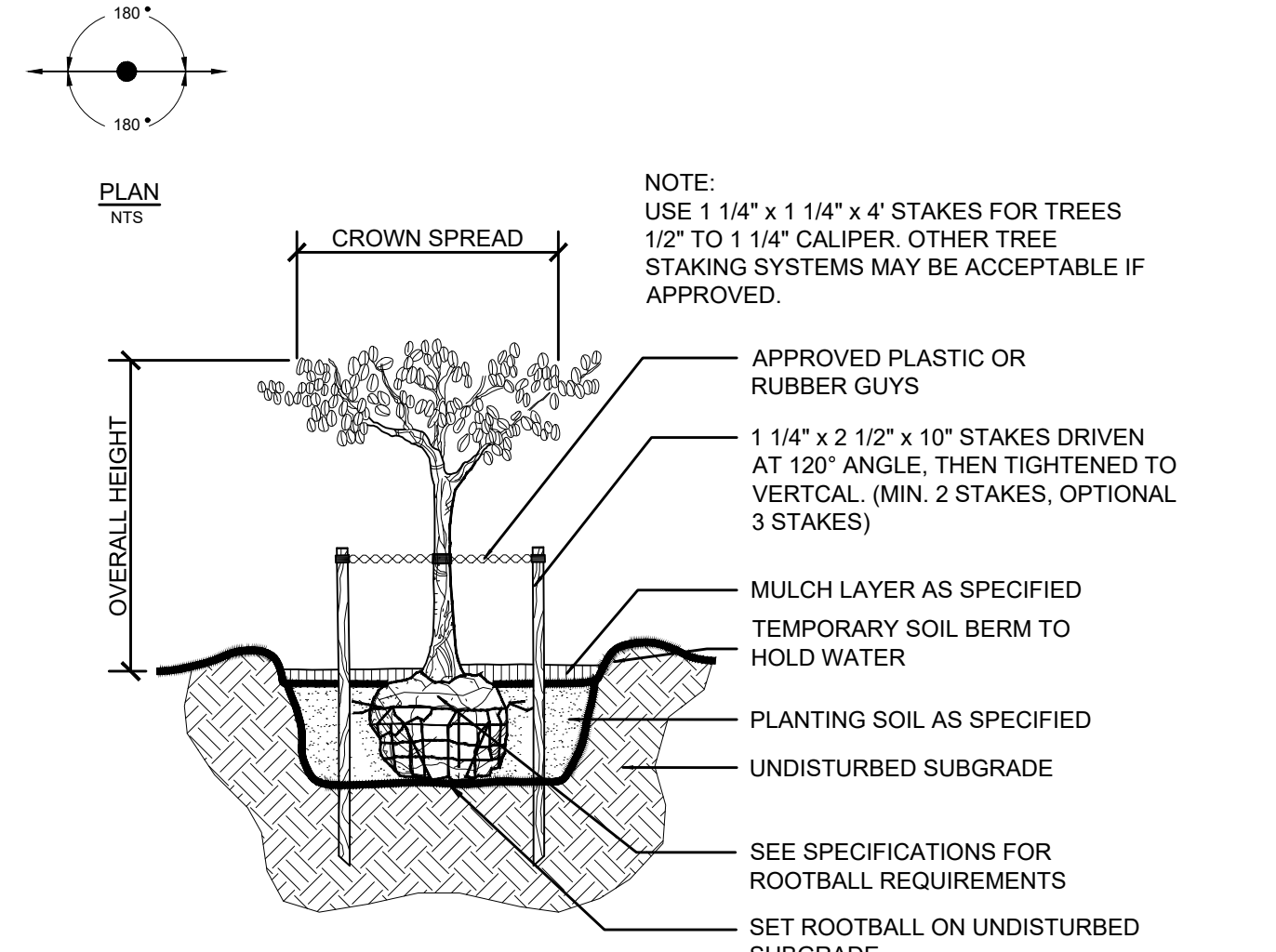
SHRUB AND GROUNDCOVER SPACING DETAIL

SCALE: NTS



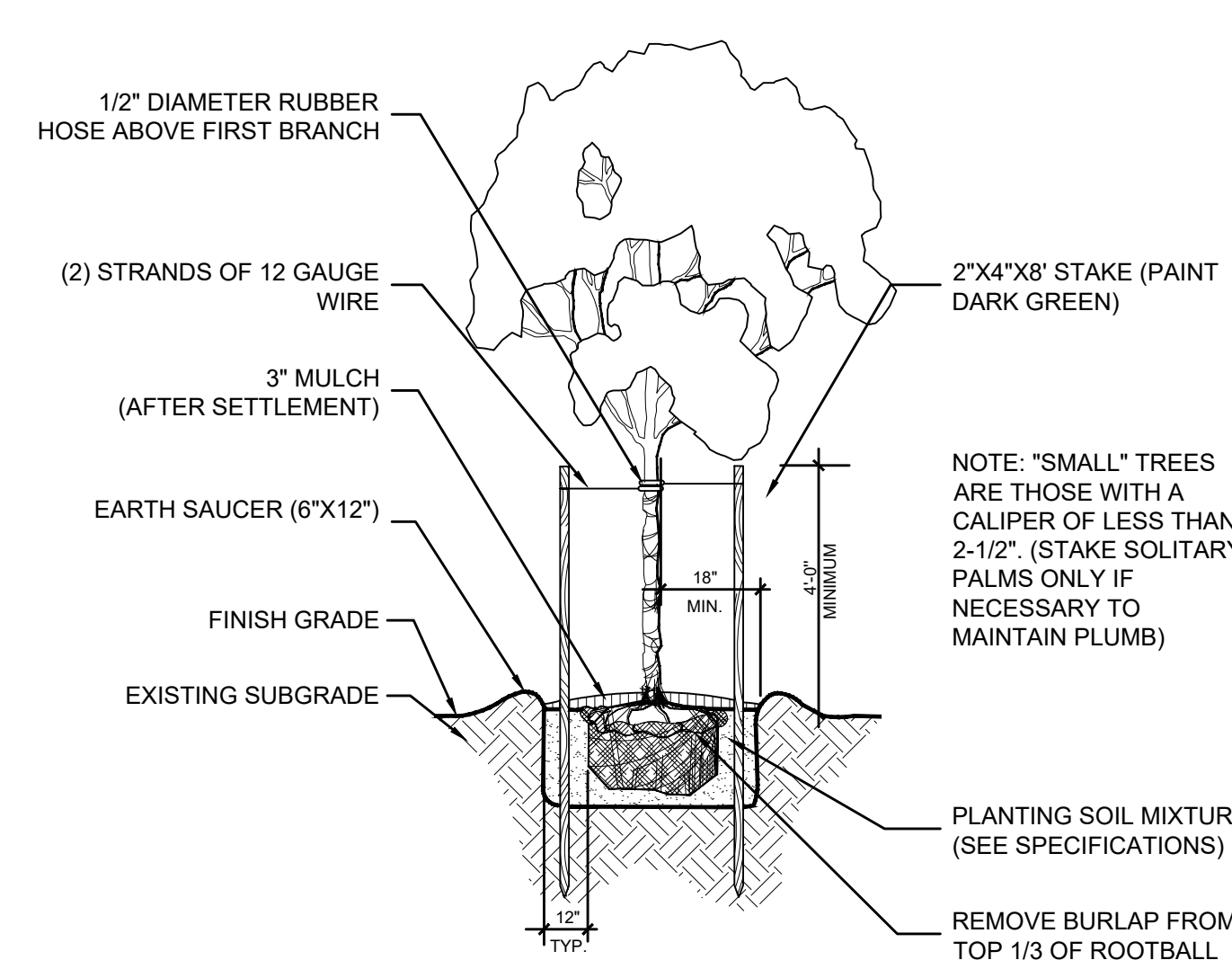
TYPICAL PALM PLANTING DETAIL

SCALE: NTS



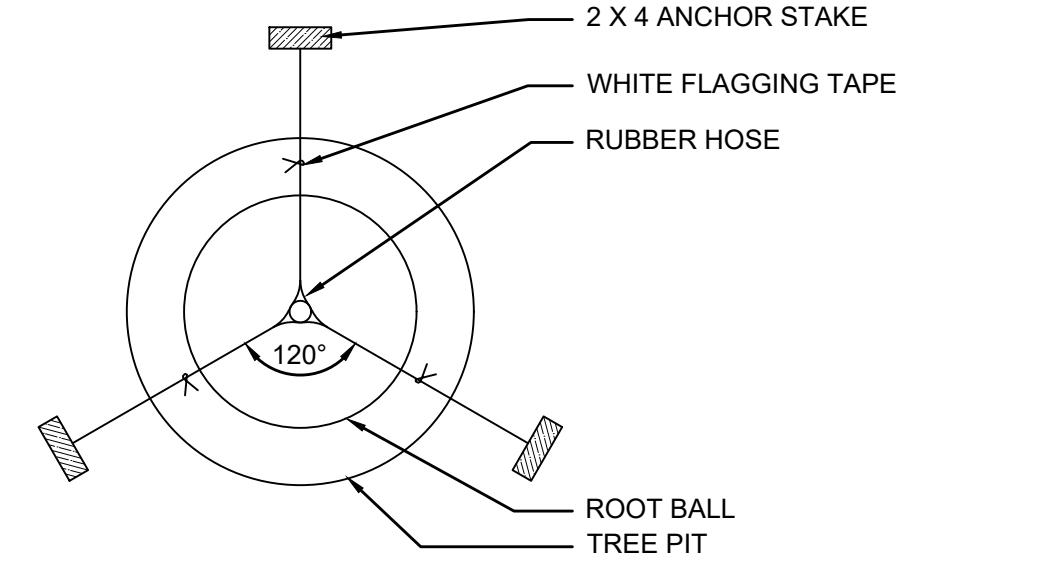
SMALL TREE PLANTING DETAIL (1" TO 3-1/2" CALIPER)

SCALE: NTS



NASSAU COUNTY TREE PLANTING DETAIL

SCALE: NTS





GENERAL CONSTRUCTION NOTES:

1.

All dimensions are taken from centerline of wall, edge of pavement, face of curb, and/or centerlines of roads at 90 degree angles, unless otherwise noted on plan. The dimensions are shown for approximate line and all radii and curves are to have continuous and smooth transitions without abrupt changes or bends.
2.

All forms and alignment of paving, pilasters and walls shall be inspected and approved by the owner's representative prior to pouring (give a minimum of 48 hours notice).
3.

For site pavement grading and drainage, see civil engineers plans.
4.

Contractor shall verify location of all surface and sub-surface utilities prior to construction and shall be held liable for damages incurred.
5.

Contractor shall be responsible for verifying all irrigation sleeves in the field with the developer.
6.

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the owner's representative.
7.

Contractor must check all dimensions, framing conditions and site conditions before starting work. Owner's representative shall be notified immediately of any discrepancies or possible deficiencies
8.

Do not willfully install or construct items as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the owner's representative. In the event this notification is not performed, the contractor shall assume full responsibility for any revisions necessary.
9.

Conditions not specifically shown shall be constructed similar to the details for the respective materials.
10.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of the contractor. Observation visits to the job site by the owner's representative do not include inspection of construction methods and for safety conditions at the work site. These visits shall not be construed as continuous and detailed inspections.
11.

Contractor shall refer to soils engineer's report for percentages of compaction required for all concrete flatwork and footings.
12.

Site furnishings shall be installed per manufacturers recommendations, or as recommended in the drawings. Details provided in the drawings for anchoring of furnishings are provided for intent only. It shall be the contractors responsibility to coordinate with the manufacturer and submit anchoring details for approval by owner's representative prior to installation.
13.

All references to 'Gray' concrete shall mean natural concrete with no color additive.
14.

All broom finished concrete shall be broomed in the same direction as indicated on the drawings or as directed by the owner. The broom finish appearance shall not deviate substantially from pour to pour or one section of concrete to another.

GENERAL NOTES:

GENERAL CONDITIONS

1.

If materials, quantities, strengths or sizes indicated by the drawings or specifications are not in agreement with these notes, the better quality and/or greater quantity, strength or size indicated, specified or noted shall be provided.
2.

It is the contractors sole responsibility to determine erection procedure and sequence to insure the safety of the structures and its component parts during erection. This includes, but is not limited to, the addition of temporary bracing, guys or tie-downs as may be necessary. Such material shall be removed and shall remain the poperty of the contractor after completion of the project.
3.

All dimensions and elevations shown on the structural drawings shall be verified by the contractor to conform to those shown on the drawings.
4.

The contractor shall be held responsible for having visited the site and having familiarized himself with all existing conditions. Any questions or discrepancies found with regard to the drawings shall be brought to the attention of the architect before submitting a proposal. Field measure existing conditions prior to fabrication of materials.

CAST IN PLACE CONCRETE

1.

All concrete shall have the following minimum compressive strength at 28 days:  
- Slab on grade, footings 3000 psi  
- Remaining concrete 4000 psi
2.

All concrete shall have a slump of 4" plus or minus 1", and have 2 to 4% air entrapment, and a maximum water/cement ratio of 0.58.
3.

Concrete mix design shall be in accordance with the Latest Edition of ACI 301 Chapter 3, Method 1 or Method 2, submit backup data as required by Chapter 5 Section 5.3 of the Latest Edition of ACI 318.
4.

All reinforcing steel shall be new domestic deformed billet steel conforming to ASTM A-615 Grade 60.
5.

All concrete work shall be in accordance with 'The Building Code Requirements for Reinforced Concrete' ACI 318 Latest Edition, and 'Specifications for Structural Concrete for Buildings,' ACI 301.
6.

All reinforcing details shall conform to 'Manual of Standard Practice for Detailing Reinforced Concrete Structures' ACI 315 Latest Edition, unless detailed otherwise on the structural drawings.
7.

Contractor shall review architectural and civil drawings for size and location of embedded items, sleeves, slab depressions, slopes, etc. required by other trades. These items shall be furnished and installed prior to placement of concrete.
8.

Contractor shall verify locations of all openings, sleeves, anchor bolts, inserts, etc. as required by other trades before concrete is placed.
9.

Where bar lengths are given on the drawings, the length of any hook, if required, is not included.
10.

Contractor shall provide spacers, chairs, bolsters, etc. necessary to support reinforcing steel. Support items which bear on exposed concrete surfaces shall have ends which are plastic tipped or stainless steel.
11.

Contractor shall provide  $\frac{3}{4}$  inch chamfer on all exposed corners of columns, beams, and walls unless otherwise indicated on the architecural drawings.
12.

Contractor shall furnish 1 ton of #5 reinforcing bars delivered to the job site in standard lengths and fabricated and placed as directed by the architect. The unused material shall be removed and credited to the projet at the contract unit price.
13.

The following minimum concrete cover shall be provided for reinforcement:  
3" concrete cast against and permanently exposed to earth.  
2" concrete exposed to earth or weather, #6 through #18 bars.  
1  $\frac{1}{2}$ " concrete exposed to earth or weather, #5 bar and smaller.
14.

Contractor shall keep a copy of 'Field Reference Manual' (ACI Publication SP-15, Latest Edition) at the project field office.
15.

Minimum lap splices on all reinforcing bar splices shall be 48 bar diameters typ. except where otherwise noted on the drawings. For beams and elevated slabs, lap bottom steel at the support and top steel over the midspan, unless otherwise noted.
16.

Testing laboratory shall submit one copy of all concrete test reports directly to the engineer.
17.

Along curved wall sections, the rebar spacing specified is a minimum for each face. Provide additional bars as needed to maintain the specified rebar spacing.

DESIGN CRITERIA

1.

All work shall be performed in strict accordance with the requirements of:

- A.

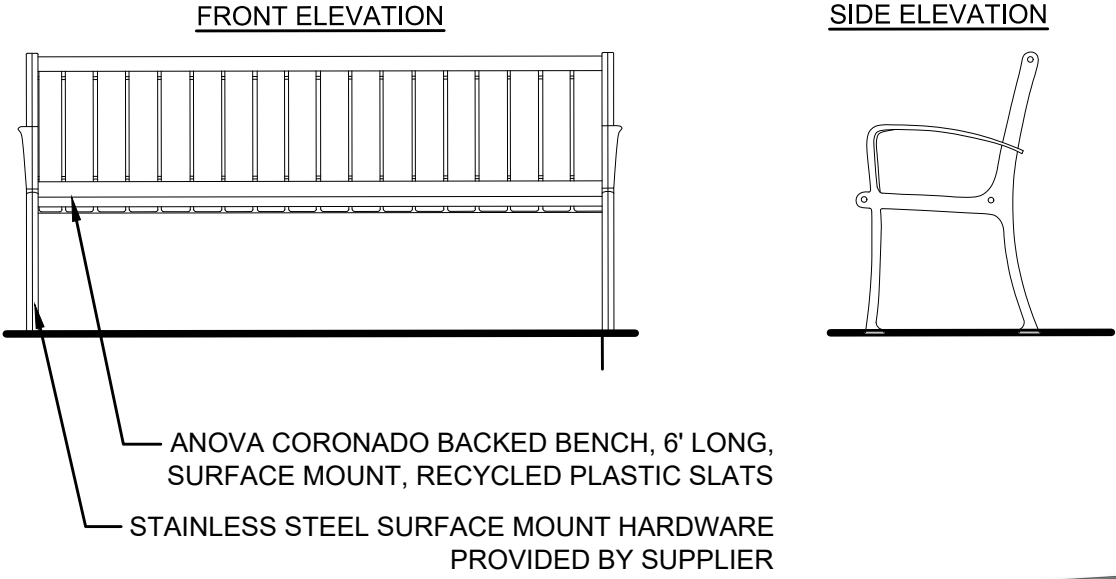
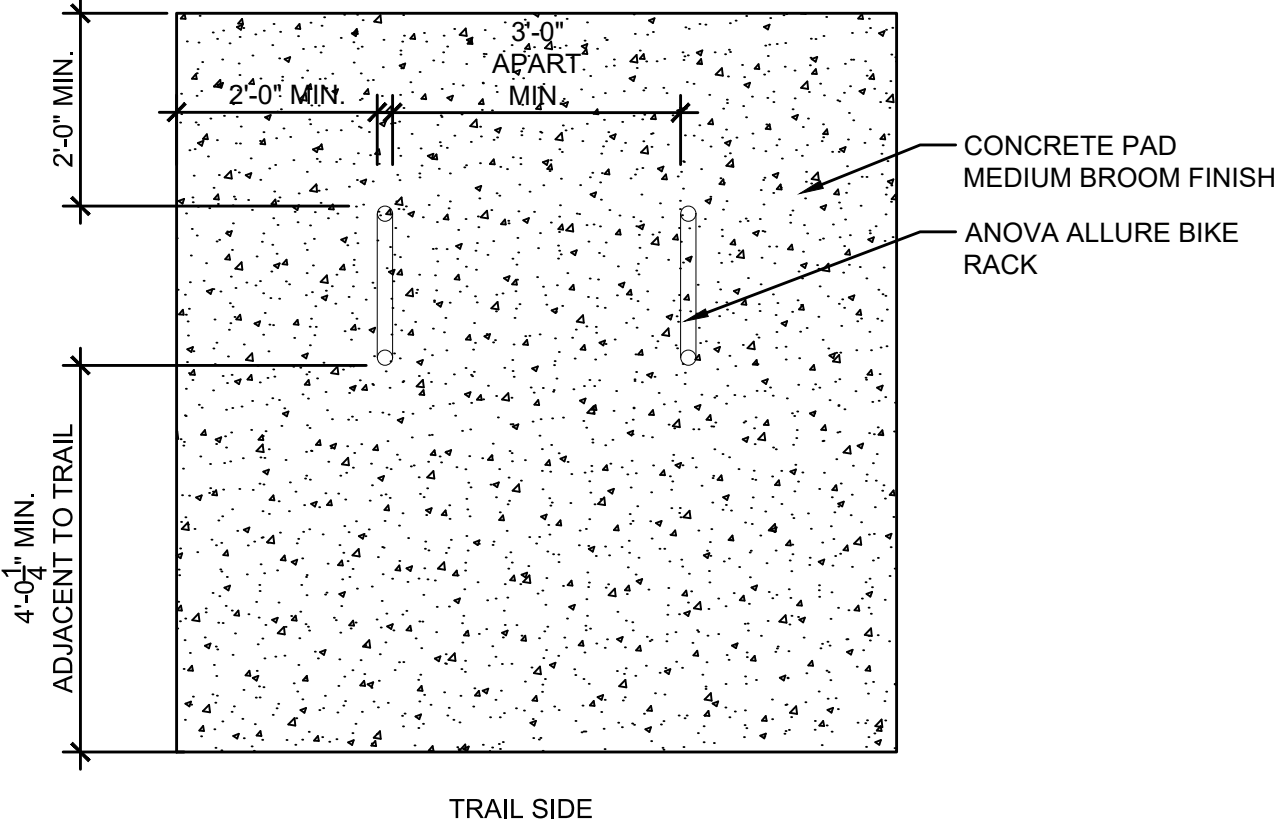
General Building Code: Florida Building Code 2023
- B.

Concrete:  
Building Code requirements for reinforced concrete (ACI 318-89)  
Specifications for structural concrete for buildings (ACI 301-84.

Design Loads

Wind Loads:

Basic Wind Speed = 130 MPH with 3 second gust  
Risk Category II  
Exposure = C  
Internal pressure coefficient: 0.18 fully enclosed structure  
Components and cladding (ASD) +25.23 PSF and -33.06 PSF for design wind pressure



NOTES:

1.

BENCH TO HAVE BLACK POWDERCOAT FINISH ON ALL METAL PARTS. RECYCLED SLATS COLOR TO BE CEDAR.
2.

INSTALLATION TO BE COMPLETED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

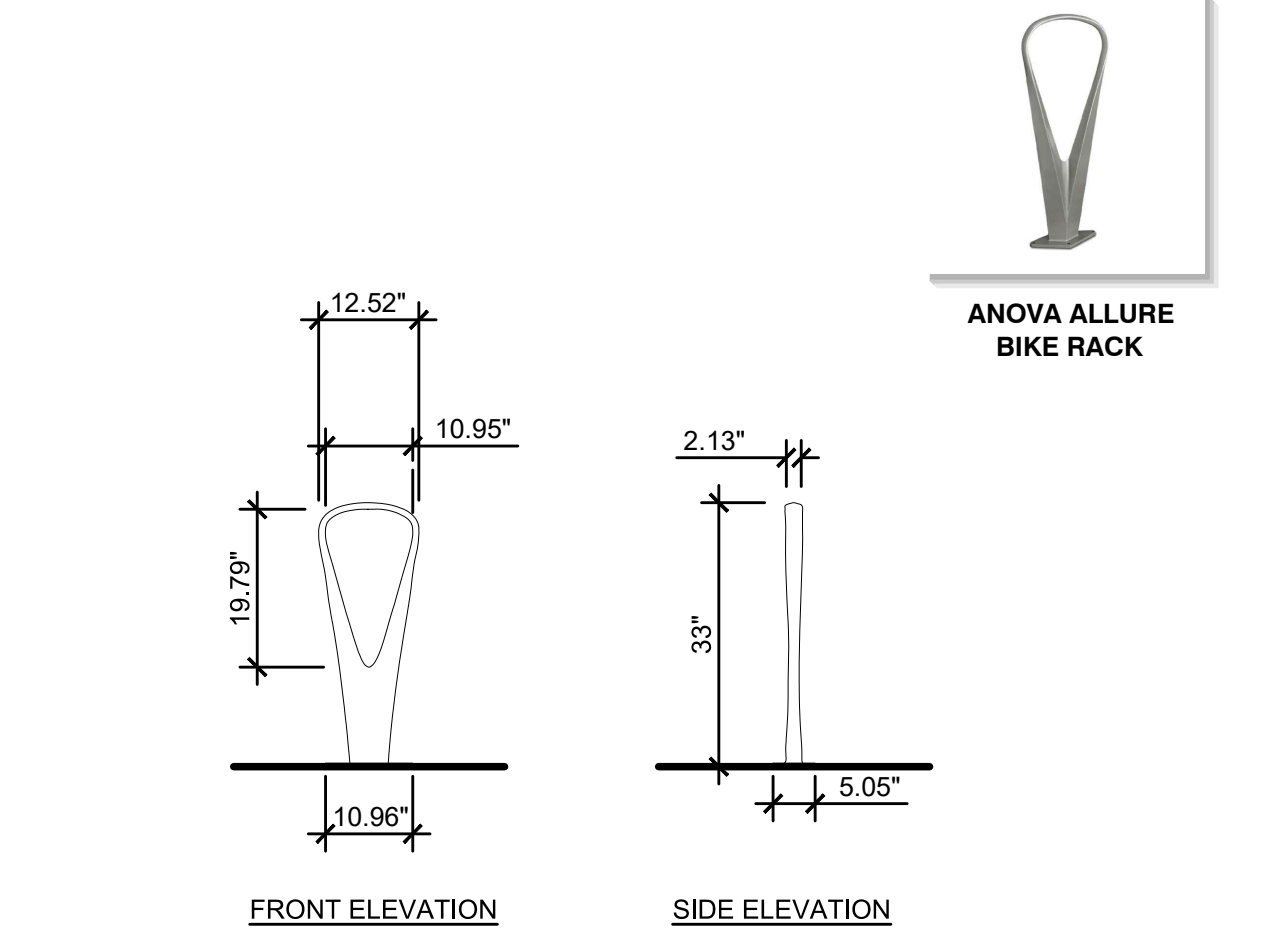
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L603

BENCH

1/2" = 1'-0"

P-CO-WIL3-01



NOTES:

1.

BIKE RACK TO HAVE BLACK POWDERCOAT FINISH ON ALL METAL PARTS.
2.

PLACE AND SPACE BIKE RACKS IN ACCORDANCE WITH "ESSENTIALS OF BIKE PARKING" GUIDE, ASSOCIATION OF PEDESTRIAN AND BICYCLE PROFESSIONALS (APBP), 2015.
3.

INSTALLATION TO BE COMPLETED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

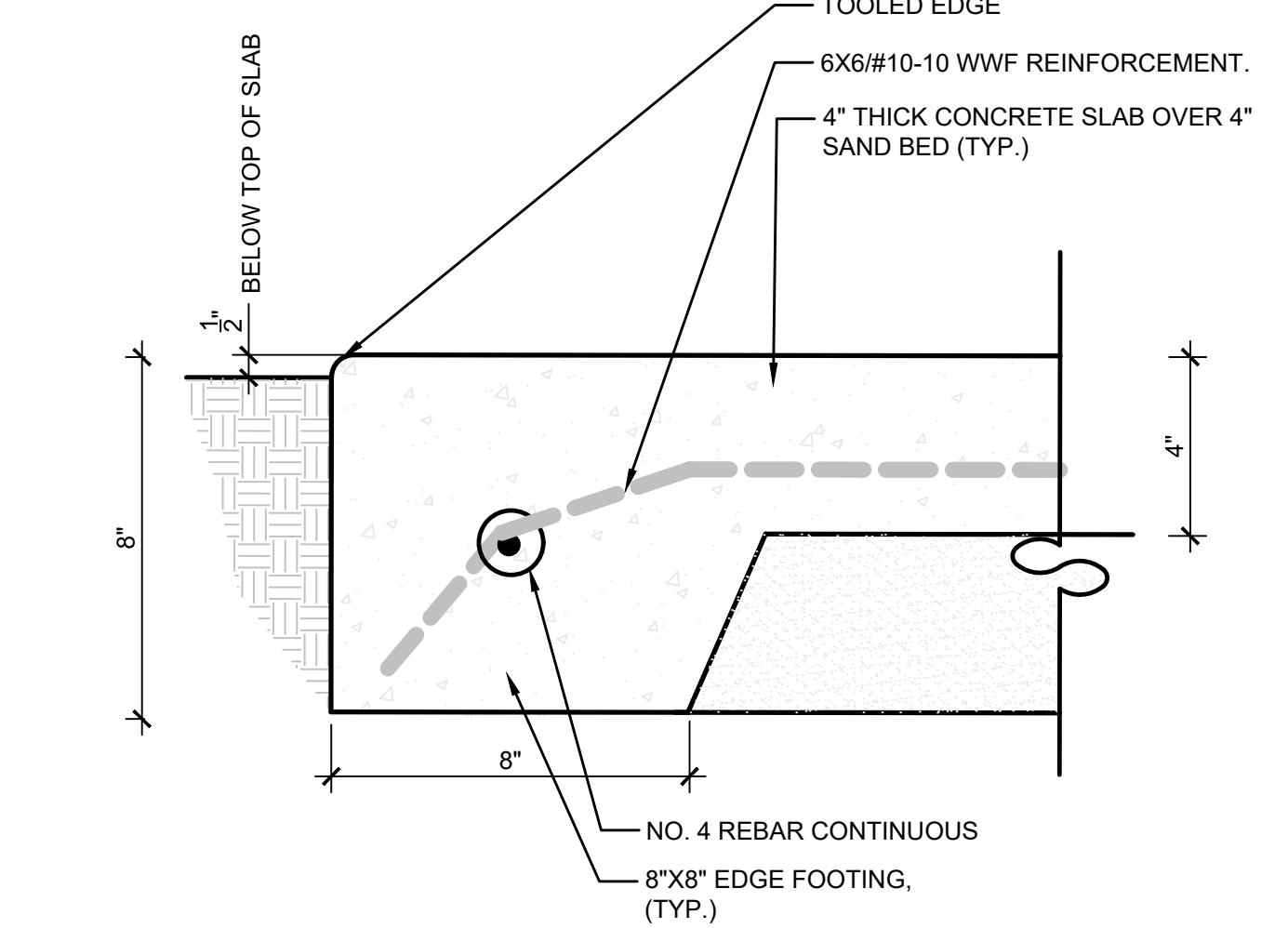
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L603

BIKE RACK

1/2" = 1'-0"

P-CO-WIL3-03



2

L603

REINFORCED SLAB EDGE

3" = 1'-0"

P-CO-WIL3-02

REFERENCE NOTES SCHEDULE							
CODE	DESCRIPTION	MANUFACTURER	COLOR/ FINISH				
03 CONCRETE							
03-01	REINFORCED SLAB EDGE	SUPPLIED BY CONTRACTOR	NATURAL GRAY				
CODE	DESCRIPTION	MANUFACTURER	MATERIAL	COLOR / FINISH	REMARKS		
PAVING							
P-101	CONCRETE PAVER BANDING	TREMRON (904) 359-5901	STANDARD CONCRETE PAVER	20% CHARCOAL/20% NATURAL GRAY/60% LIGHT HUNTINGTON	4" X 8" PAVER		
P-102	24" HT. RAISED PLANTER/SEATING WALL	TREMRON (904) 359-5901	STONEGATE WALL BLOCK WITH STONEGATE CAP	20% CHARCOAL/20% NATURAL GRAY/60% LIGHT HUNTINGTON	STONEGATE WALL BLOCK PRODUCT CODE: RW03150 DIMENSIONS: SM: 6"14", MED: 12"110", LG: 16"14" HEIGHT 6" & DEPTH 10" STONEGATE CAP PRODUCT CODE: RW03151 DEPTH 12", THICKNESS 3" & WIDTH 8"		
CODE	DESCRIPTION	MANUFACTURER	MATERIAL	COLOR / FINISH	SIZE	MODEL	REMARKS
SITE FURNISHINGS							
S-102	BIKE RACK	ANOVA (800)231-1327	METAL	BLACK POWDERCOAT		ALLURE #AL 19BR2	SURFACE MOUNT PER MANUFACTURER'S SPECIFICATIONS
S-103	BENCH	ANOVA (800)231-1327	METAL/RECYCLED PLASTIC	BLACK POWDERCOAT	76"	CORONADO #CR2780R	SURFACE MOUNT

HARDSCAPE NOTES AND DETAILS

CVS AT WILDLIGHT  
FOR  
BOOS DEVELOPMENT GROUP, INC

DRAWING NUMBER  
L400

PLANS PREPARED UNDER  
THE DIRECTION OF:

REVISIONS:  
2025.02.19 - REV. PER AGENCY COMMENTS  
2025.03.27 - REV. PER AGENCY COMMENTS

ETM NO. 23-128-01  
DRAWN BY: AA  
DESIGNED BY: JFK  
CHECKED BY: JFK  
DATE: MARCH 2025

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