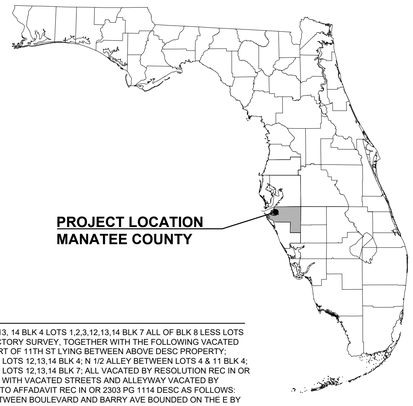
100% CONSTRUCTION DOCUMENT SUBMITTAL

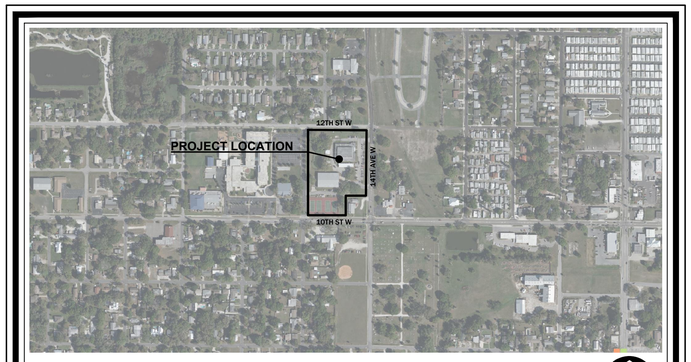
FOR:

PALMETTO ESP RENOVATION
DMA CFMO #224004

1107 14TH AVENUE W
PALMETTO, FLORIDA 34221
SECTION 15, TOWNSHIP 34S, RANGE 17E
TAX PARCEL NUMBER: 2804400059



PROJECT LOCATION
MANATEE COUNTY



VICINITY MAP
NTS

SHEET INDEX

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LEGAL DESCRIPTION

ALL OF BLK 3 LOTS 1,2,3,4,12,13, 14 BLK 4 LOTS 1,2,3,12,13,14 BLK 7 ALL OF BLK 8 LESS LOTS 5,6,7 RESUB OF JACKSON FACTORY SURVEY, TOGETHER WITH THE FOLLOWING VACATED STREETS & ALLEYS: THAT PART OF 11TH ST LYING BETWEEN ABOVE DESC PROPERTY; ALLEY BETWEEN LOTS 1,2,3 & LOTS 12,13,14 BLK 4; N 1/2 ALLEY BETWEEN LOTS 4 & 11 BLK 4; ALLEY BETWEEN LOTS 1,2,3 & LOTS 12,13,14 BLK 7; ALL VACATED BY RESOLUTION REC IN OR 1298 P 1977, ALSO TOGETHER WITH VACATED STREETS AND ALLEYWAY VACATED BY RESOLUTION 62-2 ATTACHED TO AFFADAVIT REC IN OR 2303 PG 1114 DESC AS FOLLOWS: THAT PORTION OF LEE ST BETWEEN BOULEVARD AND BARRY AVE BOUNDED ON THE E BY LOTS 8 & 9, BLK 3 & LOT 4 OF BLK 8 & BOUNDED ON THE W BY LOTS 1 & 14 OF BLK 4 AND LOTS 1 & 14 OF BLK 7, THAT PORTION OF SPEAR AVE LYING BETWEEN THE FOLL LOTS; LOT 12 THROUGH 14 OF BLK 4, LOTS 9 THROUGH 16 OF BLK 3 ON THE N & LOTS 1 THROUGH 3 OF BLK 7, & LOTS 1 THROUGH 4 OF BLK 8 ON THE S, THAT PORTION OF THE ALLEYWAY LYING BETWEEN THE FOLL LOTS: LOTS 1 THROUGH 8 BLK 3 & LOTS 1 THROUGH 3 OF BLK 4 ON THE N & LOTS 9 THROUGH 16 OF BLK 3 & LOTS 12 THROUGH 14 OF BLK 4 ON THE S, THAT PORTION OF THE ALLEYWAY LYING BETWEEN THE FOLL LOTS: LOT 1, 2 & 3 OF BLK 7 ON THE N & LOTS 12,13 & 14 OF BLK 7 ON THE S, LESS THAT PART PREVIOUSLY VACATED BY RESOLUTION 90-11 REC IN OR 1298 PG 1977 LESS THAT PART INCLUDED IN OR 2309/6867 DESC AS FOLLOWS: A PORTION OF BLKS 3,4,5, 6,7 & 8 RE-PLAT OF JACKSON FACTORY SUB, AS REC IN PB 1, PG 317 PRMCF, ALG WITH THE VACATED STREETS & ALLEYS VACATED BY RES 90-11, AS REC IN ORB 1298 PG 1977 & IN ORB 1569 PG 3497 & BY ORD NO.09-993 REC IN ORB 2301 PG 1057 & BY RES 62-2 AS REC IN ORB 2303 PG 1114 PRMCF, LYING WITHIN THE FOLLOWING DESC PARCEL BDRY: COM AT THE SW COR OF LOT 8, BLK 6, RE-PLAT OF JACKSON FACTORY SUB, AS REC IN PB 1 PG 317 PRMCF, SD PT BEING THE PI OF THE N R/W LN OF 10TH ST W & THE E R/W LN OF 17TH AVE W; TH N 00 DEG 02 MIN 07 SEC W, ALG SD E R/W LN, A DIST OF 341.14 FT FOR A POB; TH CONT N 00 DEG 02 MIN 07 SEC W, ALG SD R/W LN, A DIST OF 265.50 FT TO THE PI OF SD R/W LN & THE S R/W N OF 12TH ST W; TH S 89 DEG 55 MIN 39 SEC E, ALG SD R/W N, A DIST OF 856.48 FT; TH S 00 DEG 11 MIN 21 SEC E, 606.64 FT TO A PT ON THE AFOREMENTIONED N R/W LN OF 10TH ST W; TH N 89 DEG 55 MIN 39 SEC W, ALG SD R/W LN, A DIST OF 55.00 FT; TH N 00 DEG 11 MIN 21 SEC W, 350.00 FT; TH N 89 DEG 55 MIN 39 SEC W, 166.00 FT; TH S 00 DEG 11 MIN 21 SEC E, 350.00 FT TO A PT ON THE AFOREMENTIONED N R/W LN OF 10TH ST W; TH N 89 DEG 55 MIN 39 SEC W, ALG SD N R/W LN, A DIST OF 367.10 FT; TH N 00 DEG 02 MIN 07 SEC W, 146.64 FT; TH N 31 DEG 07 MIN 22 SEC W, 128.25 FT; TH N 00 DEG 04 MIN 22 SEC E, 154.79 FT; TH N 89 DEG 55 MIN 38 SEC W, 60.00 FT; TH S 00 DEG 04 MIN 22 SEC W, 70.00 FT; TH N 89 DEG 55 MIN 39 SEC W, 143.94 FT TO THE POB. ALSO LESS THAT PART INCLUDED IN OR 2309/6943 DESC AS FOLLOWS: A PORTION OF BLKS 4 BLK 7, RE-PLAT OF JACKSON FACTORY SUB, AS REC IN PB 1, PG 317 PRMCF, TOGETHER WITH THAT PORTION OF THE VACATED ALLEY, VACATED BY RES 90-11, REC IN ORB 1298 PG 1977 & IN ORB 1569 PG 3497 PRMCF, LYING WITHIN THE FOLLOWING DESC PARCEL BDRY: COM AT THE SW COR OF LOT 8, BLK 6, RE-PLAT OF JACKSON FACTORY SUB, AS REC IN PB 1 PG 317 PRMCF, SD PT BEING THE PI OF THE E R/W LN OF 17TH AVE W & THE N R/W LN OF 10TH ST W; TH S 89 DEG 55 MIN 39 SEC E, ALG SD N R/W, A DIST OF 637.10 FT FOR A POB; TH CONT S 89 DEG 55 MIN 39 SEC E, ALG SD R/W LN, A DIST OF 166.00 FT; TH N 00 DEG 11 MIN 21 SEC W, 350.00 FT; TH N 89 DEG 55 MIN 39 SEC W, 166.00 FT; TH S 00 DEG 11 MIN 21 SEC E, 350.00 FT TO THE POB.

NOTE:
ALL CONSTRUCTION WILL COMPLY WITH THE 8TH EDITION 2023 FLORIDA BUILDING CODE FOR BUILDING, PLUMBING, MECHANICAL AND ACCESSIBILITY. ELECTRICAL CODE 2020 NEC, THE 8TH EDITION 2023 FLORIDA FIRE PREVENTION CODE AND NFPA 2019.

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This item has been digitally signed and sealed by Lucas Carlo, PE on the date adjacent to the seal.

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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100% CONSTRUCTION DOCUMENT SUBMITTAL

DMA CFMO # 224004
PALMETTO ESP RENOVATION
NATIONAL GUARD ARMORY
1107 14TH AVE W, PALMETTO, FL 34221

PROJECT NO.:1910.09
DATE: JULY 10, 2025
DRAWN BY:RG
REVISIONS:
1 06/17/26 - ADDENDUM # 2

SHEET TITLE:
COVER SHEET

SHEET NO.:
C1.1

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF PALMETTO, FDEP, AND FDOT.

2. NO ENGINEERING PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THAT THE DIMENSIONS AND DETAILS SHOWN ON THE ENGINEERING PLANS ARE CORRECT AND ARE CONSTRUCTIBLE PRIOR TO ORDERING ANY MATERIALS. IN ADDITION, THE ACTUAL CONDITIONS AT THE JOB SITE SHOULD BE CONSIDERED IN THE VERIFICATION OF THE DIMENSIONS AND DETAILS. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THEY MUST IMMEDIATELY REPORT THEM TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY.

3. IN THE EVENT OF A DISAGREEMENT BETWEEN THE ENGINEERING PLANS, NOTES AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

4. ANY FIELD CHANGES OR DEVIATIONS FROM THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IS SUBJECT TO THE APPROVAL OF BOTH THE OWNER AND CITY OF PALMETTO.

5. ALL TRENCH EXCAVATIONS IN EXCESS OF FIVE FEET IN DEPTH SHALL BE IN ACCORDANCE WITH THE "TRENCH SAFETY ACT", EFFECTIVE DATE OCTOBER 1, 1990.

6. BEFORE ANY TREES ARE REMOVED BUT AFTER INITIAL CONSTRUCTION SURVEYING, THE CONTRACTOR WILL CLEARLY FLAG ALL TREES TO BE PRESERVED AS APPROVED BY THE ENGINEER.

7. ALL DISTURBED AREAS WITHIN ROAD RIGHT OF WAY TO BE SODDED WITH BAHIA SOD. ALL DISTURBED AREAS BEYOND ROAD RIGHT OF WAY TO BE RE-SODDED TO MATCH EXISTING CONDITIONS. (1)

8. BENCHMARK DATUM MUST BE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

9. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FLORIDA D.O.T. STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

10. LOCATIONS AND DIMENSIONS OF EXISTING RIGHTS-OF-WAY AND EASEMENTS ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE LIMITS OF THE RIGHTS-OF-WAY AND EASEMENTS IN ORDER TO AVOID ENCROACHMENTS.

11. FIELD VERIFY SITE CONDITIONS AND THE SIZE AND LOCATION OF ALL EXISTING UTILITIES AND RELATED CONSTRUCTION PRIOR TO COMMENCEMENT OF WORK.

12. THE CONTRACTOR SHALL ESTABLISH A BRASS DISK BENCHMARK ON THE CONTROL STRUCTURE WITH AN ELEVATION CERTIFIED IN WRITING TO THE COUNTY/CITY BY A REGISTERED PROFESSIONAL LAND SURVEYOR.

13. ALL SIGNAGE AND STRIPING TO BE INSTALLED IN ACCORDING WITH MUTCD (LATEST EDITION) STANDARDS AND SPECIFICATIONS.

LOT GRADING NOTES:

1. GRADES SHOWN ARE FINISHED GRADES.

2. INTERSECTING ROADS AND DRIVEWAYS TO BE GRADED AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED.

3. LOT GRADING SHALL NOT IMPOSE ANY ADDITIONAL RUNOFF ONTO NOR IMPEDE RUNOFF FROM ADJACENT PROPERTIES.

EROSION CONTROL & WATER QUALITY MANAGEMENT:

1. THE CONTRACTOR SHALL TAKE MEASURES DURING CONSTRUCTION TO PREVENT EROSION, TURBIDITY AND SEDIMENTATION IN OFF-SITE SWALES, WETLANDS OR WATER BODIES.

2. ALL DISTURBED AREAS SHALL BE NEATLY GRADED, SEEDED AND MULCHED OR SODDED AS NOTED.

3. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY OF GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE HAY BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.

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

5. 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 A DUST CONTROL PLAN, WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. THIS WAIVER WILL BE BY WRITTEN AUTHORIZATION FROM THE COUNTY ENGINEER.

6. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

7. AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITH IN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER, DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.

8. THE SODDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

9. IF AFTER 14 DAYS, THE TEMPORARY GRASSES AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.

10. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

11. ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR CONDITION PRIOR TO CONSTRUCTION.

12. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.

14. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.

15. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.

16. PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF WETLANDS, BUFFERS WETLANDS, BUFFERS AND MITIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.

17. ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION BY METHODS STATED IN INDEX 570-001 F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SIDE SLOPE MAY BE SEEDED AND MULCHED, PROVIDED THAT THE MULCH MATERIAL IS DISC HARROWED AND THE SIDE SLOPES ARE NEITHER GREATER THAN 3:1 NOR PART OF A DRAINAGE CONVEYANCE.

18. REFER TO POND DETAIL SHEETS FOR EROSION CONTROL MEASURES AT POND OUTFALLS.

19. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH FDOT INDEX.

20. LAND PREPARATION PROCESSES SHALL CONFORM TO "CHAPTER 6: STORMWATER, EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES FOR DEVELOPING AREAS OF THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT" (JUNE 1988) PREPARED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION.

21. THE CONTRACTOR SHALL NOT LET DUST LEAVE THE SITE BY AIR. USE OF A WATER TRUCK TO CONTROL DUST IS ADVISED.

PAVING AND DRAINAGE NOTES:

1. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN TWO CENTERLINES OF DRAINAGE STRUCTURE.

2. ALL MEDIANS AND ISLANDS TO BE FILLED WITH CLEAN SOIL.

3. ALL PAVEMENT RETURN RADI SHALL BE 25' AND MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.

4. ALL CONCRETE DRAINAGE STRUCTURES TO BE CONSTRUCTED PER D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED.

5. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURE WITH CHAIN AND EYE BOLT.

6. FIVE(5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.

7. CONTRACTOR SHALL PLACE BLUE REFLECTIVE MARKERS ON PAVEMENT IN FRONT OF FIRE HYDRANTS.

8. CONCRETE SIDEWALKS (AS SPECIFIED BY APPROPRIATE ROADWAY SECTION) ADJACENT TO ALL LOTS TO BE INSTALLED BY HOME BUILDER. SIDEWALKS ADJACENT TO PONDS, PARKS, AND OPEN SPACE, AS SHOWN ON PLANS, ARE TO BE CONSTRUCTED WITH INFRASTRUCTURE.

9. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET CITY OF PALMETTO A.D.A. SPECIFICATIONS

10. TOP ELEVATION MANHOLES IN GRASSED AREAS SHALL BE AT A MINIMUM 4 INCHES ABOVE FINISH GRADE.

11. MINIMUM LONGITUDINAL SLOPE OF CURB SHALL BE 0.24%.

12. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO PROVIDE DOCUMENTATION, FOR THE ADS HP STORM PIPE, FROM THE PIPE MANUFACTURER CONFIRMING SUFFICIENT COVER HAS BEEN PROVIDED TO PREVENT FLOTATION. IN THE EVENT THAT ADEQUATE COVER IS NOT PROVIDED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN DESIGN AND CONSTRUCTION SPECIFICATIONS FROM THE MANUFACTURER, FOR THE ADS N-12 HP PIPE ANCHORING SYSTEM. IF ADS HP STORM PIPE IS USED THEN MITERED END SECTIONS (MES) MAY BE SUBSTITUTED FOR FLARED END SECTIONS (FES) AT PIPE RUN TERMINATIONS.

AS-BUILT NOTES:

1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF RECORD DRAWINGS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH CITY OF PALMETTO SUBDIVISION REQUIREMENTS AND THE FOLLOWING REQUIREMENTS:

1.1. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.

1.2. DRAWINGS SHALL SHOW LOCATION OF ALL UNDERGROUND AND ABOVE GROUND WATER, WASTEWATER AND RECLAIMED WATER PIPING AND RELATED APPURTENANCES, BASED UPON RECORD SURVEY INFORMATION. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS AND ROAD RIGHTS-OF-WAY.

1.3. DRAWINGS SHALL ALSO IDENTIFY ACTUAL INSTALLED PIPE, VALVES, FITTINGS, HYDRANTS AND OTHER ASSETS. THESE ASSETS SHALL BE ATTRIBUTED WITH MATERIALS, CLASS, PRESSURE RATING, SPECIFICATIONS, ETC.

1.4. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.

1.5. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.

1.6. DRAWINGS SHALL CLEARLY SHOW THE ACTUAL HORIZONTAL LOCATIONS, DISTANCES, AND VERTICAL ELEVATIONS OF THE UTILITY ASSETS. STATE PLANE COORDINATES SHALL BE UTILIZED FOR HORIZONTAL LOCATIONS.

1.7. DIMENSIONS BETWEEN ALL MANHOLES, SLOPE OF GRAVITY MAINS, INVERT AND TOP ELEVATIONS SHALL BE SHOWN.

1.8. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. AS-BUILT POND CONTOURS SHALL BE PROVIDED AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AND ELEVATIONS SPECIFIED ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-GRADING POND SLOPES THAT ARE STEEPER THAN 5:1 (HORIZONTAL:VERTICAL) TO A DEPTH OF 2 FEET BELOW THE SLWT.

1.9. EACH SHEET OF THE PLANS SHALL BE SIGNED, SEALED AND DATED BY REGISTERED SURVEYOR WITH A NOTE READING, "THESE AS-BUILT DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED."

1.10. DRAWINGS SHALL INCLUDE THE AS-BUILT COORDINATE ASSET TABLE, PIPE DEFLECTION, AND GRAVITY MAIN TABLE.

2. CONTRACTOR TO PLACE GRADE STAKES AT CENTER OF FRONT AND REAR LIMITS OF EACH BUILDING PAD FOR OWNER/ENGINEER INSPECTION AND APPROVAL.
3. CERTIFIED AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BACTERIOLOGICAL TESTING. FAILURE TO PROVIDE ACCURATE DRAWINGS MAY RESULT IN EXPIRED TEST RESULTS AND REQUIRE ADDITIONAL TESTING AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL SUBMIT TWO (2) CERTIFIED COPIES AND EXCEL FILES OF THE COMPLETED UTILITY ASSET TABLES USING THE CITY OF PALMETTO STANDARD ASSET TABLES TEMPLATE AVAILABLE ON THEIR WEBSITE. COMPLETE ASSET TABLE REQUIRED PRIOR TO ANY CERTIFICATION OF RESPECTIVE SYSTEM. COORDINATE DATA SHALL BE PROVIDED IN STATE PLANE COORDINATES.

AS-BUILT - RECORD DRAWINGS NOTES:

GENERAL:
CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH AN ACCURATE "AS-BUILT" SURVEY DEPICTING THE IMPROVEMENTS AS CONSTRUCTED AND NOTING ANY CHANGES. AS-BUILT SURVEY SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR AND MAPPER. A PAPER COPY SHALL BE SUBMITTED ALONG WITH AN ELECTRONIC FILE IN AUTOCAD FORMAT. "AS-BUILT" SURVEY SHALL MEET THE STANDARDS AND SPECIFICATIONS OF CITY OF PALMETTO, AND SWFWMD.

UTILITIES:
AT A MINIMUM, UTILITY "AS-BUILT" INFORMATION WILL REQUIRE THE LOCATION OF ALL FITTINGS, VALVES, HYDRANTS, ETC. AND THE CHANGE OF DIRECTION AND ELEVATION OF ALL WATER MAINS, INCLUDING VERTICAL AND HORIZONTAL SEPARATION OF ALL CROSSINGS AND CONFLICTS. CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO FACILITATE THE COLLECTION OF "AS-BUILT" DATA, INCLUDING, IF NECESSARY, INSTALLING PVC SLEEVES OVER WATER MAIN FITTINGS, COLLECTING SURVEY DATA AS IT IS INSTALLED, OR TAKING FIELD MEASUREMENTS OF CONFLICTS PRIOR TO PLACING COVER.

IRRIGATION NOTES

1. ALL IRRIGATION PIPING CROSSING UNDER DRIVES AND ROADS SHALL BE IN PVC SLEEVES TWICE THE DIAMETER OF THE PIPE, 4" O.D. MAX.

2. IRRIGATION EQUIPMENT (SPRINKLER HEADS, VALVES, CONTROLLER, ETC.) TO BE AS MANUFACTURED BY RAINBIRD SPRINKLER MFG. CO. OR APPROVED EQUIVALENT.

3. ALL HEADS AND VALVES SHALL BE LOCATED IN ADJACENT PLANTING AREA AS DETAILED.

4. HEAD ON SHRUB RISERS SHALL NOT EXTEND MORE THAN 6" ABOVE ADJACENT PLANT MATERIAL.

5. ALL EXPOSED PVC WILL BE PAINTED BLACK.

6. CONTRACTOR SHALL USE CARE AND MINIMIZE ROOT DAMAGE WHEN INSTALLING IRRIGATION COMPONENTS NEAR EXISTING TREES. WHEN ANY ROOTS OF EXISTING TREES ARE ENCOUNTERED DURING INSTALLATION OF UTILITIES, THE LINES SHALL BE ADJUSTED BY THE ARCHITECT. IF ROOTS MUST BE CUT, THEY SHALL BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS. THE INSTALLER SHALL MINIMIZE THE DAMAGE TO EXISTING TREE ROOT SYSTEMS.

7. IRRIGATION DIAGRAM SHOWN FOR SPRINKLER HEAD SPACING IS TYPICAL. IRRIGATION CONTRACTOR SHOULD REFER TO IRRIGATION DESIGN PLANS FOR HEAD LAYOUT AND SPACING. IF NO IRRIGATION DESIGN HAS BEEN PREPARED, THE CONTRACTOR SHALL SIZE HEADS, ZONES AND LATERALS AS APPROPRIATE TO PROVIDE FULL COVERAGE OF ALL LANDSCAPED AREAS.

8. SYSTEM SHALL PROVIDE 100% GREEN SPACE COVERAGE.

SIDEWALKS:

1. ALL OTHER SIDEWALKS TO BE CONSTRUCTED WITH SITE IMPROVEMENTS.

2. HANDICAP (HC) RAMPS MUST BE CONSTRUCTED AT THE STREET INTERSECTION(S) AND DRIVEWAY CONNECTION(S) TO COMPLY WITH THE AMERICAN WITH DISABILITY ACT (ADA) AND WILL MEET FDOT DESIGN STANDARDS.

SANITARY SEWER NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH CITY OF PALMETTO MANUAL OF STANDARD SPECIFICATIONS FOR WASTEWATER AND WATERMAIN CONSTRUCTION.

2. ALL MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 48 INCHES AND A MINIMUM ACCESS DIAMETER OF 22 INCHES.

3. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.

4. ALL SANITARY SERVICE LATERALS SHALL BE 6 INCH DIAMETER PVC. LATERALS SHALL END WITH A CLEAN OUT AT RIGHT-OF-WAY LINE.

5. INVERTS OF SANITARY SERVICE LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE INVERT.

6. PRIOR TO PAVING, CONTRACTOR SHALL VERIFY THE AS-BUILT SANITARY SEWER PIPE SLOPES. MINIMUM AS SHALL BE IN ACCORDANCE WITH FDEP MINIMUM CRITERIA BUILT FOR 8" PVC SEWER LINE SLOPE WILL BE 0.28%, FOR 12" PVC WILL BE 0.17%, AND FOR 15" PVC WILL BE 0.12%. ANY LINE NOT MEETING MINIMUM SLOPE WILL BE RELAYED BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.

7. MARK LATERALS WITH 6' HIGH PIECE OF 2" X 4" PLANK PAINTED GREEN W/ LOT NUMBER CLEARLY MARKED AND A 'S' IMPRESSED IN THE CURB.

8. MINIMUM SEPARATION BETWEEN POTABLE WATER LINES AND SANITARY HAZARDS (SANITARY SEWER, FORCE MAIN, STORM SEWER, REUSE WATER) SHALL BE MAINTAINED. A HORIZONTAL CLEARANCE OF TEN (10) FEET IN PARALLEL INSTALLATION AND 12 INCHES VERTICALLY AT CROSSINGS. SHOULD A VERTICAL SEPARATION OF LESS THAN THAT STIPULATED BE REQUIRED, THE WATER LINE SHALL BE CONSTRUCTED OF 20 FEET OF PRESSURE TIGHT JOINT DUCTILE IRON PIPE. IF THE REQUIRED 10 FT. HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, THE SEWER MAIN SHALL BE PLACED IN A D.I.P. SLEEVE OR ENCASED IN CONCRETE IN ACCORDANCE WITH FDEP SPECIFICATIONS.

9. PVC GRAVITY SEWER PIPE SHALL MEET ASTM D3034, SDR35.

10. ALL SANITARY SEWER PIPE SHALL BE COLORED GREEN.

11. FIBERGLASS LINE ALL MANHOLES WHICH RECEIVE DISCHARGE FROM A FORCE MAIN AND NEXT DOWNSTREAM MANHOLE.

12. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SERVICES AT EACH LOT. SERVICES SHALL HAVE 3' MIN AND 4' MAX COVER AT LOT CLEAN OUT.

POTABLE WATER NOTES (PRIVATE):

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AND IN ACCORDANCE WITH CITY OF PALMETTO REGULATIONS.

2. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.

3. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.

4. ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED CAST BRONZE EXTENSION WHERE NEEDED.

5. ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND WILL BE MARKED WITH THE NSF SEAL OF APPROVAL.

6. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED IN ACCORDANCE WITH THE SUB PARAGRAPH 62-555.320(21)(B)3, F.A.C. USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WITH AND SHALL BE BLUE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.

7. ALL NON-METALLIC WATERMAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATERMAINS SHALL BE A SOLID BLUE COLOR. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.

8. WATERMAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF CITY OF PALMETTO PERSONNEL. ALL VALVES SHALL BE OPERATED BY CITY OF PALMETTO PERSONNEL ONLY. WATERMAINS ARE TO BE DISINFECTED PER ANSI/AAWA C651-92 REGULATIONS.

9. VERTICAL SEPARATION BETWEEN UNDERGROUND POTABLE WATERMAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES:

9.1. NEW OR RELOCATED, UNDERGROUND WATERMAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.

9.2. NEW OR RELOCATED, UNDERGROUND WATERMAINS 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 WATERMAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.

9.3. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATERMAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSING, THE PIPES SHALL BE ARRANGED SO THAT ALL WATERMAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

10. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATERMAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:

10.1. NEW OR RELOCATED, UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

10.2. NEW OR RELOCATED, UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY 10 FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

10.3. NEW OR RELOCATED, UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY 10 FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATERMAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATERMAINS IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

10.4. NEW OR RELOCATED, UNDERGROUND WATERMAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

11. A MINIMUM OF 3 FEET OF COVER SHALL BE MAINTAINED OVER WATERMAINS, UNLESS OTHERWISE NOTED.

12. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE THAN 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT SHALL CONTAIN NO MORE THAN 0.2% LEAD.

13. NEW OR ALTERED DEAD-END WATERMAINS INCLUDED IN THIS PROJECT SHALL BE PROVIDED WITH A FIRE OR FLUSHING HYDRANT OF BLOW-OFF FOR FLUSHING PURPOSES.

14. NEW OR ALTERED FIRE HYDRANTS LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.

15. IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATERMAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS, THROUGH ENCASEMENT OF THE WATERMAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.

16. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT.

WATER - MATERIALS (PRIVATE):

1. PVC PIPE:

1.1. PVC WATER DISTRIBUTION MAINS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900 OR C909, LATEST EDITION.

1.2. PIPE SHALL HAVE A MINIMUM PRESSURE RATING OF 150 PSI AND HAVE A MAXIMUM DIMENSION RATIO OF 18.

1.3. PIPE SHALL BE BLUE IN COLOR.

1.4. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH ON TYPE JOINTS CONFORMING TO ASTM D3139.

2. DUCTILE IRON PIPE:

2.1. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA A21.51/C151.

2.2. PIPE SHALL BE PRESSURE CLASS OF 350 FOR PIPE 4 TO 12 INCHES IN DIAMETER. PIPES 16 TO 24 INCHES IN DIAMETER SHALL BE PRESSURE CLASS 250. PIPES 30 TO 64 INCHES IN DIAMETER SHALL BE PRESSURE CLASS 200.

2.3. PIPE SHALL BE COLOR CODED BLUE WITH TAPE.

2.4. THE TAPE (MIN 2") SHALL BE PERMANENTLY AFFIXED TO THE TOP AND EACH SIDE OF THE PIPE (THREE LOCATIONS PARALLEL TO THE AXIS OF THE PIPE). FOR PIPES LESS THAN 24 INCHES IN DIAMETER, A SINGLE TAPE MAY BE USED ALONG THE TOP OF THE PIPE.

2.5. JOINTS FOR DUCTILE IRON PIPE SHALL BE PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI/AWWA A21.11/C111, RESTRAINED OR FLANGED JOINTS SHALL BE PROVIDED WHERE CALLED FOR IN THE PLANS. FLANGED POINTS SHALL CONFORM TO ANSI STANDARD B 16.1-125 POUNDS.

3. HDPE PIPE:

3.1. HDPE PIPE SHALL BE IN ACCORDANCE WITH AWWA C906 AND SHALL HAVE AN OUTSIDE DIAMETER EQUAL TO DUCTILE IRON PIPE FOR THE SAME SIZE.

3.2. PIPE SHALL HAVE A MINIMUM DIMENSION RATIO OF 11 FOR USE WITH DUCTILE IRON PIPE FITTINGS AND HAVE A WORKING PRESSURE OF 150 PSI.

3.3. HDPE JOINTS SHALL CONFORM TO AWWA C906.

4. POLYETHYLENE ENCASEMENT SHALL BE IN ACCORDANCE WITH ANSI/AWWA A21.51/C105, WRAPPING COLORS TO BE BLUE.

5. GATE VALVES SHALL BE RESILIENT SEAT GATE VALVES, MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF AWWA C509 / C515, LATEST REVISION, AND IN ACCORDANCE WITH THESE SPECIFICATIONS. VALVES SHALL HAVE AN UNOBSTRUCTED WATERWAY EQUAL TO OR GREATER THAN THE FULL NOMINAL DIAMETER OF THE VALVE. VALVES SHALL HAVE A MINIMUM PRESSURE RATING OF 250 PSI.

6. ALL VALVES SHALL OPEN LEFT OR COUNTER CLOCKWISE.

WATER - TESTING (PRIVATE):

1. HYDROSTATIC TESTS SHALL CONSIST OF PRESSURE TEST AND LEAKAGE TEST. HYDROSTATIC TESTS SHALL BE CONDUCTED ON ALL NEWLY LAID PRESSURE PIPES, JOINTS AND VALVES INCLUDING ALL SERVICE LINES TO THE CURB STOPS.

2. ALL PIPE SECTIONS TO BE PRESSURE TESTED SHALL BE SUBJECTED TO A MINIMUM HYDROSTATIC PRESSURE OF 150 PSI. THE DURATION OF EACH PRESSURE TEST SHALL BE FOR A PERIOD OF TWO HOURS. PROVISIONS OF AWWA C600, AND C651 WHERE APPLICABLE, SHALL APPLY.

3. AFTER COMPLETION OF THE PRESSURE TEST, A LEAKAGE TEST SHALL BE CONDUCTED TO DETERMINE THE QUANTITY OF WATER LOST BY LEAKAGE UNDER THE SPECIFIED TEST PRESSURE. APPLICABLE PROVISIONS OF AWWA C600 SHALL APPLY.

4. NEWLY INSTALLED MAINS SHALL BE FILLED, FLUSHED WITH A MINIMUM VELOCITY OF 2.5 FEET PER SECOND AND DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C651.

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2.4. THE TAPE (MIN 2") SHALL BE PERMANENTLY AFFIXED TO THE TOP AND EACH SIDE OF THE PIPE (THREE LOCATIONS PARALLEL TO THE AXIS OF THE PIPE). FOR PIPES LESS THAN 24 INCHES IN DIAMETER, A SINGLE TAPE MAY BE USED ALONG THE TOP OF THE PIPE.
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5. GATE VALVES SHALL BE RESILIENT SEAT GATE VALVES, MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF AWWA C509 / C515, LATEST REVISION, AND IN ACCORDANCE WITH THESE SPECIFICATIONS. VALVES SHALL HAVE AN UNOBSTRUCTED WATERWAY EQUAL TO OR GREATER THAN THE FULL NOMINAL DIAMETER OF THE VALVE. VALVES SHALL HAVE A MINIMUM PRESSURE RATING OF 250 PSI.

6. ALL VALVES SHALL OPEN LEFT OR COUNTER CLOCKWISE.

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4. NEWLY INSTALLED MAINS SHALL BE FILLED, FLUSHED WITH A MINIMUM VELOCITY OF 2.5 FEET PER SECOND AND DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C651.

SIGNING AND STRIPING NOTES:

1. ALL PAVEMENTS MARKINGS MUST COMPLY WITH FDOT INDEX 711-001.

2. ALL PAVEMENT MARKINGS IN THE ROW WILL BE THERMOPLASTIC, AND THEY WILL FOLLOW THE FDOT STANDARDS PLANS 711-001.

3. TRAFFIC SIGNS NOT TO BE INSTALLED IN CONCRETE.

4. STREET SIGNS POSTS TO BE SQUARE GALVANIZED STEEL AND HOLES SHALL BE CORED. 2 INCH SQUARE GALVANIZED POLES SHALL BE PRE-SCORED ALSO CALLED QUICK PUNCH.

5. ALL TRAFFIC CONTROL SIGNS WITHIN THE RIGHT-OF-WAY SHALL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD AND CITY OF PALMETTO CRITERIA FOR SIGN SIZE AND SHAPE AND LETTERING DIMENSIONS.

RENKER · EICH · PARKS ARCHITECTS
LIC. AA C001447 1609 Dr. Martin Luther King Jr. Street North • St. Petersburg, Florida • 33704-4203 • (727-821-2986)

100% CONSTRUCTION DOCUMENT SUBMITTAL

DMA CFMO # 224004
PALMETTO ESP RENOVATION
NATIONAL GUARD ARMORY
1107 14TH AVE W, PALMETTO, FL 34221

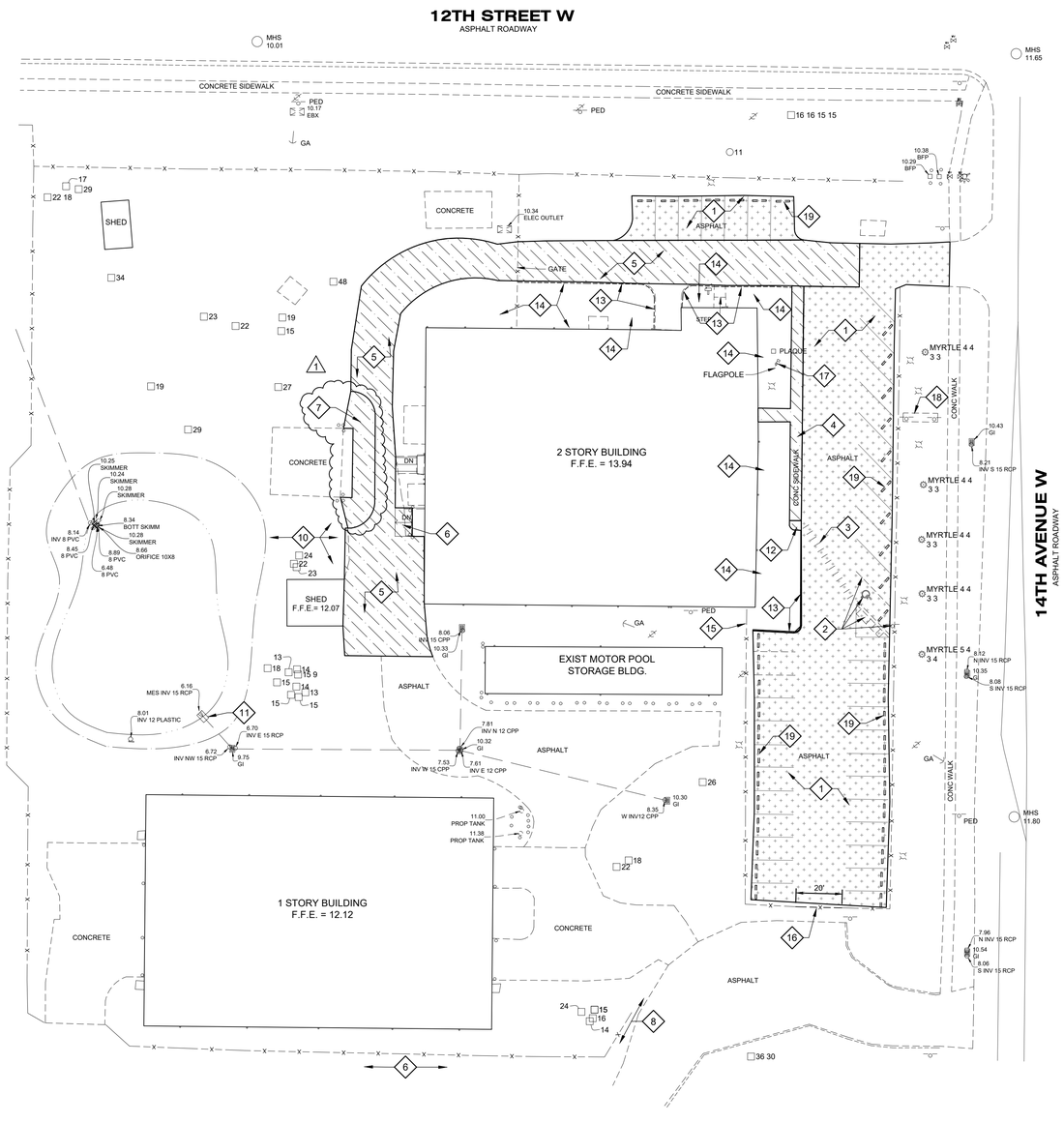
PROJECT NO.:1910.09
DATE: JULY 10, 2025
DRAWN BY:RG
REVISIONS:
(1) 06/17/26 - ADDENDUM # 2

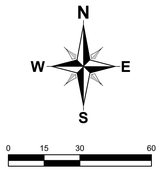
SHEET TITLE:
GENERAL CONSTRUCTION NOTES

SHEET NO.:
C2.1

TREE LEGEND			
SYMBOL	NAME	SYMBOL	NAME
□	OAK	◯	PINE
◯	PALM	✲	OTHER
△	DEAD		

NOTE: TREE SIZES IN INCHES





LEGEND

- CONC / ASPHALT / CURB TO BE REMOVED
- ABI #07 MILL AND OVERLAY

DEMOLITION NOTES

1. ABI #07 MILL AND OVERLAY THE EAST PARKING LOT AND NORTH 7 PARKING STALLS (1.5' WITH SP-12.5). SEE SITE PLAN FOR NEW STRIPING.
2. ADA PARKING SPACE, ACCESSIBLE AISLE, AND HC SIGN TO BE RELOCATED. SEE SITE PLAN FOR NEW STRIPING
3. CROSSWALK TO BE REMOVED AND DISPOSED OF. SEE SITE PLAN
4. CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED OF.
5. ABI #1 ASPHALT TO BE REMOVED FOR THE NORTH AND WEST PAVEMENT TO INSTALL STORM DRAIN TO THE POND. NEW ASPHALT TO BE INSTALLED. SEE GRADING AND DRAINAGE PLAN.
6. CONCRETE RAMP TO BE REMOVED AND DISPOSED OF.
7. ASPHALT RAMP TO BE REMOVED
8. NOT USED
9. NOT USED
10. CLEAR VEGETATION AS REQUIRED FOR NEW STORM LINE.
11. REMOVE INVASIVE PLANTS. MITERED END SECTION BLOCKED / HOLDING WATER
12. CONC SIDEWALK RAMP TO BE REMOVED
13. CONC CURB TO BE REMOVED
14. REMOVE SHRUBS, ADD FILL AND RE-GRADE AREA TO DRAIN AWAY FROM BUILDING
15. REMOVE 4'± OF EXISTING FE-7 FENCE FOR NEW 4' SWING GATE.
16. REMOVE 20'± OF EXISTING K-8 FENCE FOR NEW 20' ROLLING GATE.
17. REMOVE EXISTING FLAG POLE LIGHT FIXTURE AND CONCRETE SLAB ONLY. FLAG POLE AND FOUNDATION TO REMAIN / PROTECT. REFER TO A6.2 SHEET FOR COMPLETE SCOPE OF WORK. PROTECT EXISTING MEMORIAL STONE.
18. EXISTING UNIT SIGN TO BE RENOVATED. REFER TO A6.2 SHEET FOR COMPLETE SCOPE OF WORK
19. WHEEL STOPS TO BE REMOVED AND DISPOSED OF. (TYP)

GENERAL NOTE

A. IF ABI #07 IS NOT SELECTED POV PARKING LOT TO BE SEALED AND STRIPED.

B. ANY ASPHALT THAT IS DAMAGED WILL REQUIRE PATCHING PER THE ASPHALT PAVEMENT SPECIFICATIONS ON SHEET C6.1

100% CONSTRUCTION DOCUMENT SUBMITTAL

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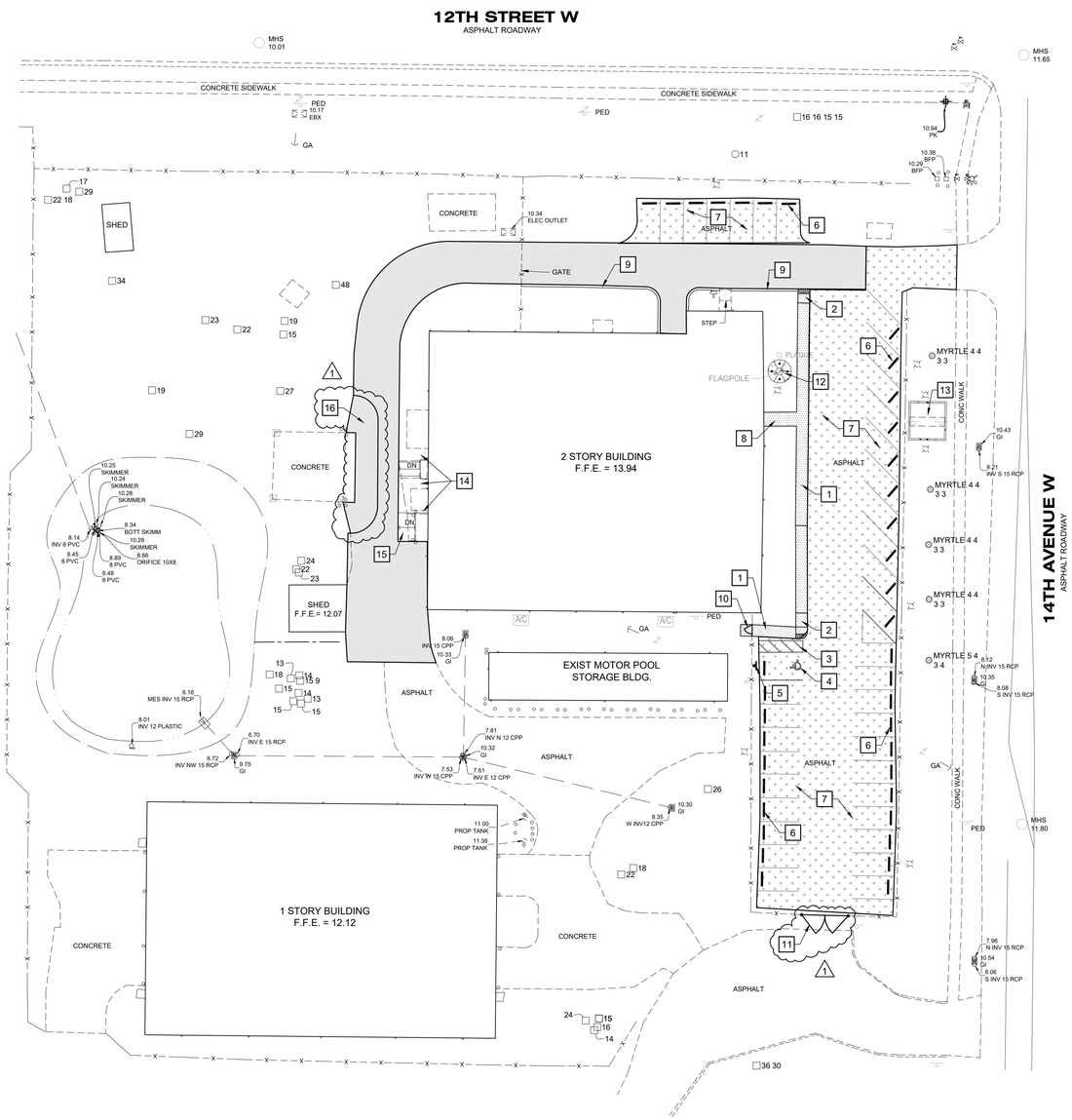
1 **06/17/26 - ADDENDUM # 2**

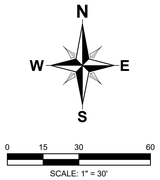
SHEET TITLE:
DEMOLITION PLAN

SHEET NO.:
C3.1

TREE LEGEND			
SYMBOL	NAME	SYMBOL	NAME
□	OAK	◯	PINE
○	PALM	✲	OTHER
△	DEAD		

NOTE: TREE SIZES IN INCHES





LEGEND

- CONCRETE SIDEWALK (1)
- ASPHALT PAVEMENT
- ABI #07 MILL AND OVERLAY
- 12" WIDE FLUSH CONC RIBBON CURB
- WHEEL STOP

PROJECT LOCATION

1107 14TH AVENUE W
PALMETTO, FLORIDA 34221
MANATEE COUNTY

PARCEL ID

2804400059

LAND USE

EXISTING	MUNICIPAL

ZONING

P	PUBLIC

FUTURE LAND USE

CITY

CONSTRUCTION NOTES

1. NEW 5' WIDE CONC SIDEWALK, 4" THICK, SEE SHEET C6.1 FOR SIDEWALK DETAIL
2. NEW ADA COMPLIANT SIDEWALK RAMP W/ DETECTABLE WARNING
3. NEW 5' WIDE ADA AISLE
4. NEW 12' WIDE H/C PARKING SPACE
5. NEW H/C PARKING SIGN
6. NEW WHEEL STOPS (TYP)
7. ABI #7 MILL AND OVERLAY THE EAST PARKING LOT AND NORTH 7 PARKING STALLS (1.5" WITH SP-12.5).
8. NEW 6' WIDE CONC SIDEWALK
9. NEW 12" WIDE FLUSH CONC RIBBON CURB
10. NEW 4' WIDE GATE, 6' HIGH CLF. SEE FE-7 FENCE GATE DETAIL ON ARCHITECTURAL FOR REQUIRED SPECIFICATION.
11. NEW 20' WIDE SWING GATE. SEE K-8 FENCE DETAIL ON ARCHITECTURAL FOR REQUIRED SPECIFICATION.
12. RENOVATED LED FLAG POLE LIGHT FIXTURE AND CONCRETE SLAB. REFER TO A6.2 SHEET FOR COMPLETE SCOPE OF WORK.
13. RENOVATED UNIT SIGN. REFER TO A6.2 SHEET FOR COMPLETE SCOPE OF WORK.
14. ADD #57 STONE BETWEEN THE MECHANICAL PADS AND BUILDING ACCESS PADS
15. NEW CONCRETE RAMP
16. NEW ASPHALT RAMP

GENERAL NOTE

A. IF ABI #07 IS NOT SELECTED POV PARKING LOT TO BE SEALED AND STRIPED.
B. ANY ASPHALT THAT IS DAMAGED WILL REQUIRE PATCHING PER THE ASPHALT PAVEMENT SPECIFICATIONS ON SHEET C6.1

ADA ACCESSIBLE NOTES

1. WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20 (5%) AND A CROSS SLOPE OF 1:48 (2%).
2. WALKING SURFACES SHALL HAVE A MINIMUM CLEAR WIDTH OF 36 INCHES AND A CLEAR WIDTH OF 48 INCHES AT ALL TURNS AND WHEN SIDEWALKS CHANGE DIRECTION THERE SHALL BE 5-FOOT FLAT AREA WITH A 1:48 (2%) MAXIMUM SLOPE AT THE TRANSITION AREA.
3. MINIMUM WIDTH REQUIREMENT OF 32 INCHES FOR DOORWAYS AND RAMPS SHALL COMPLY WITH FBC-ACCESSIBILITY 405.
4. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF FBC-A SECTION 208 AND CHAPTERS 4 & 5.
5. SLOPES BETWEEN 5% AND 8.33% SHALL MEET THE RAMP REQUIREMENTS OF ADA.
6. ACCESSIBLE PARKING AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.
7. INTERSECTING SIDEWALKS SHALL NOT EXCEED 2% IN ANY DIRECTION.
8. ANY SLOPE GREATER THAN 8.33% SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

100% CONSTRUCTION DOCUMENT SUBMITTAL

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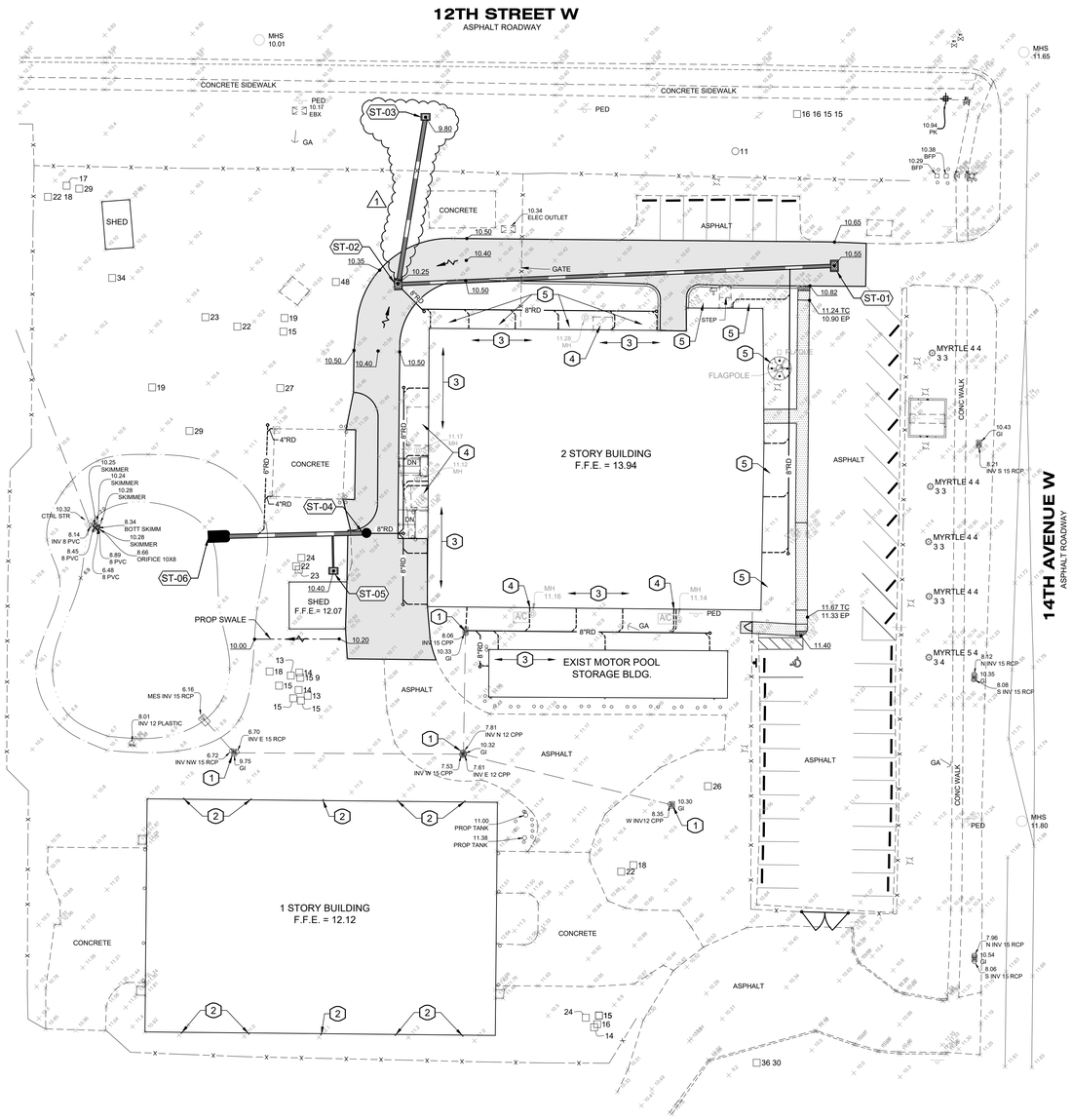
1 **06/17/26 - ADDENDUM # 2**

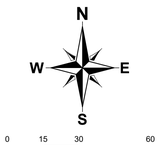
SHEET TITLE:
SITE PLAN

SHEET NO.:
C4.1

TREE LEGEND			
SYMBOL	NAME	SYMBOL	NAME
□	OAK	◯	PINE
○	PALM	✲	OTHER
△	DEAD		

NOTE: TREE SIZES IN INCHES





LEGEND

---------- 6" PVC ROOF DRAIN @ 1% MIN SLOPE

—— RD —— ROOF DRAIN (SIZE PER PLAN) @ 1% MIN SLOPE

(#) CONSTRUCTION NOTES

1. CLEAN AND FLUSH OUT EX STORM INLETS AND PIPES
2. REPLACE EXISTING GROUND LEVEL TRANSITION COUPLINGS TO THE EXISTING ROOF DRAIN CONNECTIONS (10 TOTAL)
3. CONNECT ALL ROOF DRAINS TO STORM. CUT ASPHALT/CONC/BASE AS NECESSARY TYPICAL.
4. CONNECT ALL A/C DRAINS TO STORM TYPICAL.
5. REMOVE SHRUBS, ADD FILL AND RE-GRADE AREA TO DRAIN AWAY FROM BUILDING.

DRAINAGE STRUCTURES		
NO.	STRUCTURE DATA	LOCATION
ST-01	FDOT TYPE "F" INLET TOP= 10.55 15"(W) INV= 7.20	N: 1159689.32 E: 467733.59
ST-02	FDOT TYPE "F" INLET TOP= 10.25 15"(E) INV= 6.80 18"(N) INV= 6.80	N: 1159661.44 E: 467545.94
1 ST-03	FDOT TYPE "C" INLET BUBBLER OUTLET TOP= 9.80 18"(S) INV= 6.55	N: 1159733.42 E: 467557.72
ST-04	STORM MH TYPE "P" TOP= 11.02 18"(W) INV= 6.55	N: 1159554.37 E: 467532.33
ST-05	12" ADS YARD DRAIN TOP= 10.40 6"(N) INV= 8.00	N: 1159538.12 E: 467518.08
ST-06	18" MES TOP= 8.04 18"(E) INV= 6.40	N: 1159552.76 E: 467465.14

STORM PIPE DATA			
PIPE RUN	LENGTH	DIA & TYPE	SLOPE
ST-01 TO ST-02	188'	15" N12 HDPE	0.21%
ST-02 TO ST-03	73'	18" N12 HDPE	0.34%
ST-04 TO ST-06	67'	18" N12 HDPE	0.22%
ST-05 TO	15'	6" N12 HDPE	7.97%

100% CONSTRUCTION DOCUMENT SUBMITTAL

RENKER · EICH · PARKS ARCHITECTS

LIC. AA C001447 | 1609 Dr. Martin Luther King Jr. Street North • St. Petersburg, Florida • 33704-4203 • (727-821-2986)

DMA CFMO # 224004

PALMETTO ESP RENOVATION

NATIONAL GUARD ARMORY

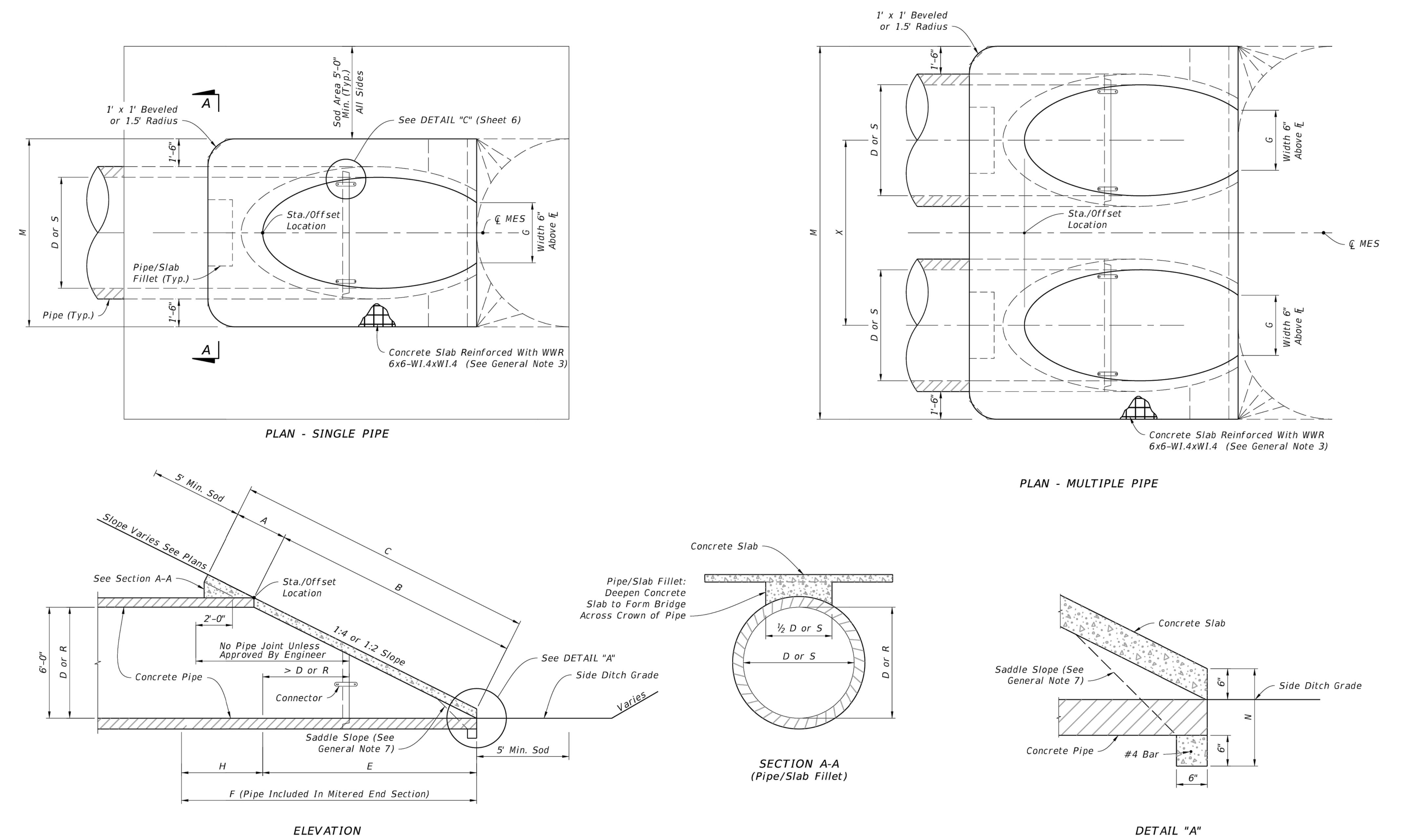
1107 14TH AVE W, PALMETTO, FL 34221

PROJECT NO.:1910.09
DATE: JULY 10, 2025
DRAWN BY:RG
REVISIONS:
1 06/17/26 - ADDENDUM # 2

SHEET TITLE:
GRADING & DRAINAGE PLAN

SHEET NO.:
C5.1

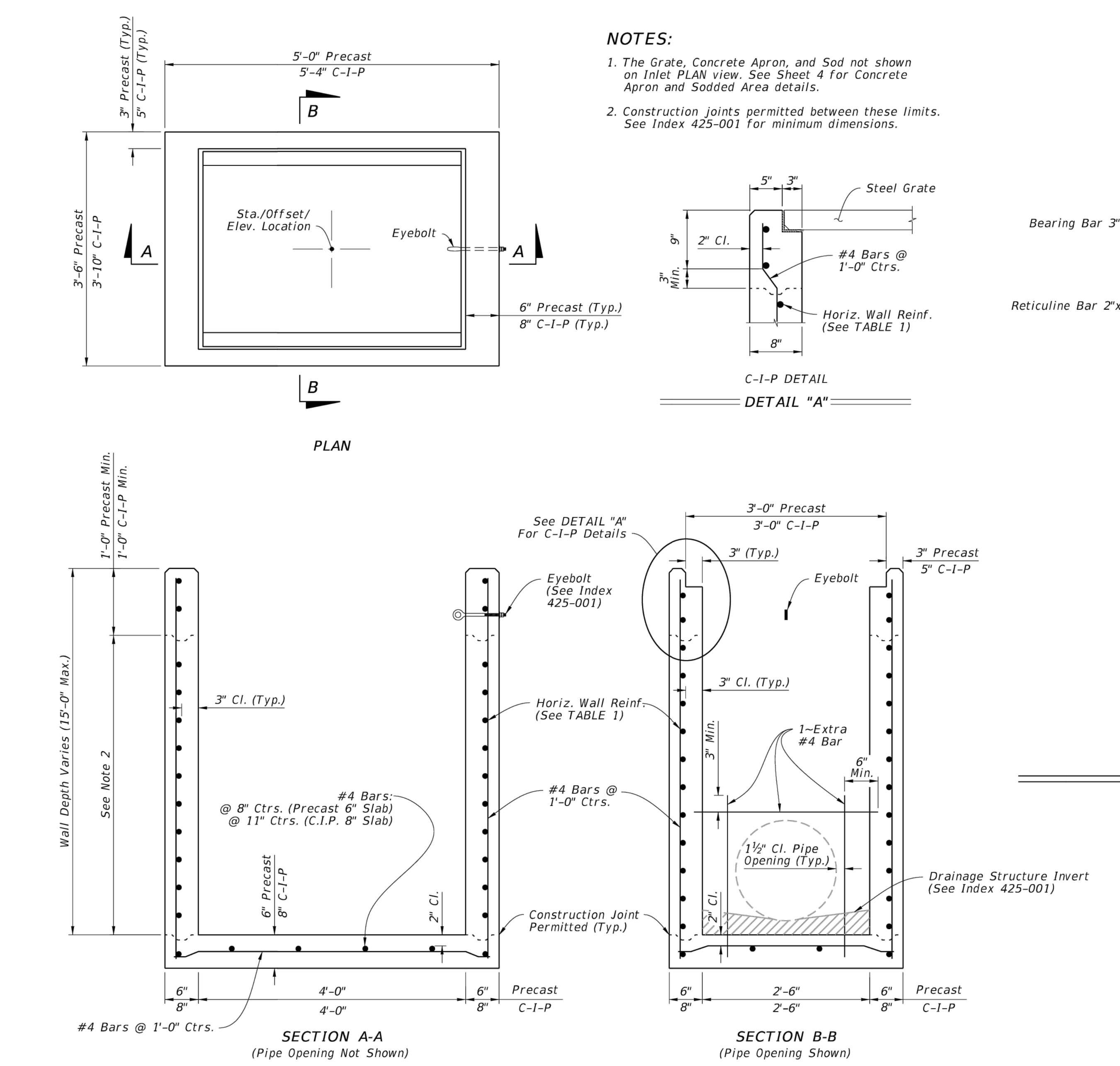
2/5/2025 1:16:51 PM
Autodesk Docs://1910.08 NGA Dade City/1910.08 DMA CFMO DADE CITY ESP RENOVATIONS.rvt



NOTE: See Table 1 on Sheet 3 for Dimensions and Quantities.

SINGLE AND MULTIPLE CONCRETE PIPE

LAST REVISION	DESCRIPTION:			INDEX	SHEET
11/01/19		FDOT FY 2025-26 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	430-021	2 of 6



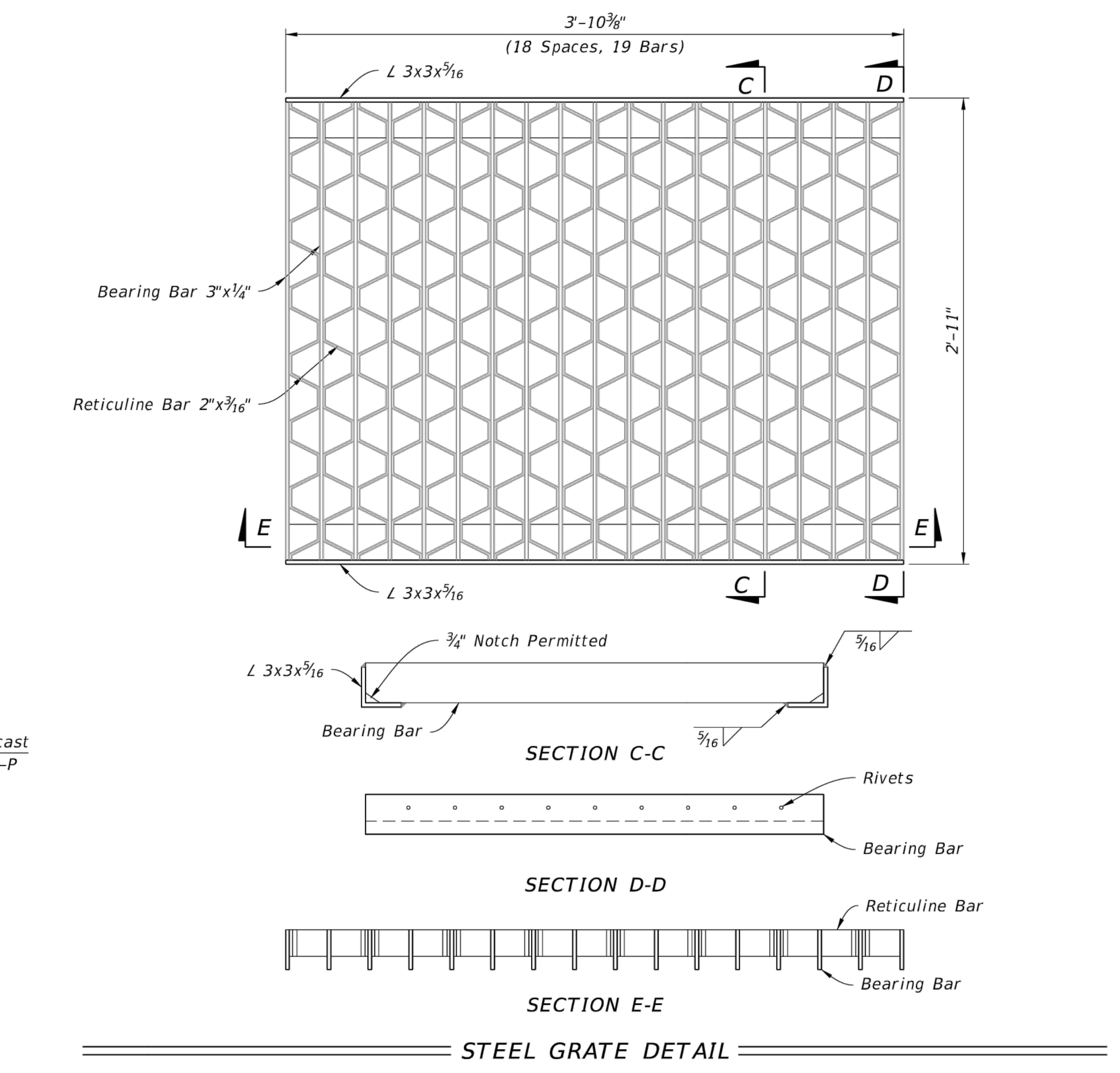


TABLE 1 HORIZONTAL WALL REINFORCING SCHEDULE				
WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWR
0' - 4'	A12	0.200	12"	8"
4' - 7'	A6	0.200	6"	5"
7' - 12'	B5.5	0.240	5½"	5"
12' - 15'	Special 1	0.267	5"	4"

TYPE F - DIMENSIONAL, REINFORCING, AND GRATE DETAILS

LAST REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20		FDOT FY 2025-26 STANDARD PLANS	DITCH BOTTOM INLET TYPES F AND G	425-053	2 of 4

TABLE 1
SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES

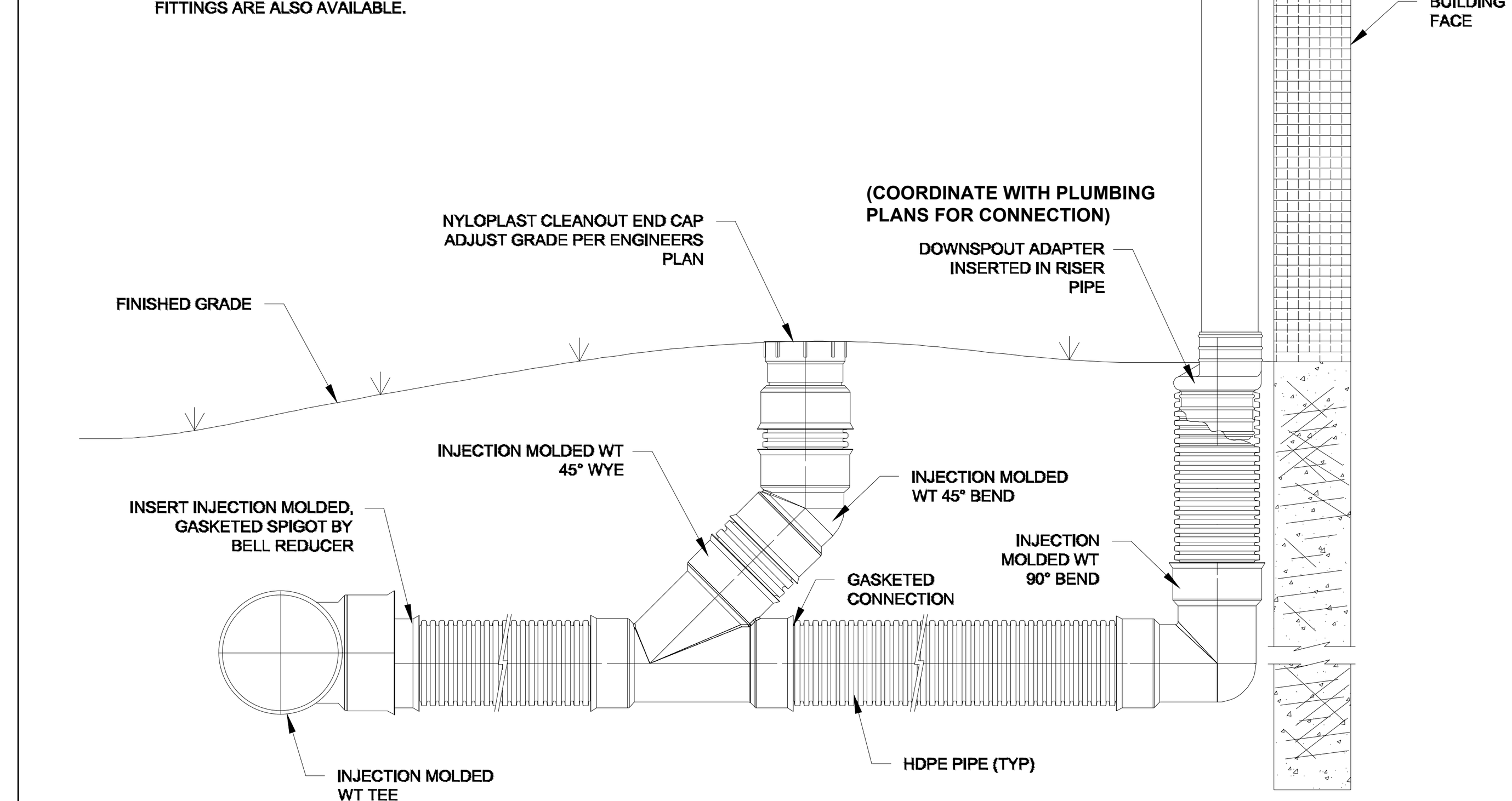
		Dia. D	Rise R	Span S	X	A	B	C	E	F	G	H	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad. Pipe	N	5½" CONC. SLAB (CY) (See General Note 3) Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	3" CONC. SLAB (CY) (See General Note 3) Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	SODDING (SY) Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe
Round Concrete Pipe	1:2 Slope	15"	—	—	2'-7"	1.92'	2.18'	4.10'	2.06'	5'	1.22'	2.9'	4.63'	7.21'	9.79'	12.37'	1.19'	0.38	0.58	0.77	0.96	0.27	0.41	0.54	0.67	21	24	27	30
		18"	—	—	2'-10"	1.97'	2.74'	4.71'	2.56'	6'	1.41'	3.4'	4.92'	7.75'	10.58'	13.42'	1.21'	0.44	0.65	0.87	1.09	0.31	0.45	0.60	0.75	22	25	28	31
		24"	—	—	3'-5"	2.06'	3.85'	5.91'	3.56'	7'	1.73'	3.4'	5.50'	8.92'	12.33'	15.75'	1.25'	0.54	0.83	1.12	1.42	0.39	0.59	0.79	1.00	24	28	32	35
		30"	—	—	4'-3"	2.15'	4.95'	7.10'	4.56'	8'	2.00'	3.4'	6.08'	10.33'	14.58'	18.83'	1.29'	0.66	1.09	1.50	1.91	0.46	0.76	1.04	1.32	26	31	35	40
		36"	—	—	5'-1"	2.25'	6.08'	8.33'	5.56'	9'	2.24'	3.4'	6.67'	11.75'	16.83'	21.92'	1.33'	0.81	1.38	1.95	2.51	0.55	0.94	1.33	1.71	28	34	39	45
		42"	—	—	6'-0"	2.34'	7.21'	9.55'	6.56'	10'	2.45'	3.4'	7.25'	13.25'	19.25'	25.25'	1.38'	0.97	1.70	2.45	3.19	0.66	1.15	1.66	2.15	30	37	43	50
		48"	—	—	6'-9"	2.43'	8.33'	10.76'	7.56'	11'	2.65'	3.4'	7.83'	14.58'	21.33'	28.08'	1.42'	1.13	2.04	2.93	3.84	0.76	1.37	1.96	2.57	32	39	47	54
		54"	—	—	7'-8"	2.52'	9.44'	11.96'	8.56'	12'	2.83'	3.4'	8.42'	16.08'	23.75'	31.42'	1.46'	1.31	2.44	3.58	4.72	0.87	1.62	2.38	3.14	34	42	51	59
		60"	—	—	8'-6"	2.62'	10.56'	13.18'	9.56'	14'	3.00'	4.4'	9.00'	17.50'	26.00'	34.50'	1.50'	1.51	2.89	4.28	5.68	0.99	1.90	2.81	3.73	36	45	55	64
		66"	—	—	9'-2"	2.71'	11.68'	14.39'	10.56'	15'	3.18'	4.4'	9.58'	18.75'	27.92'	37.08'	1.54'	1.68	3.25	4.84	6.43	1.11	2.15	3.21	4.27	38	48	58	68
		72"	—	—	10'-0"	2.80'	12.80'	15.60'	11.56'	16'	3.30'	4.4'	10.16'	20.16'	30.16'	40.16'	1.58'	1.89	3.74	5.59	7.45	1.24	2.46	3.68	4.90	40	51	62	73
	1:4 Slope	15"	—	—	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.0'	4.63'	7.21'	9.79'	12.37'	1.19'	0.57	0.87	1.15	1.44	0.40	0.61	0.80	1.00	23	26	29	32
		18"	—	—	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.0'	4.92'	7.75'	10.58'	13.42'	1.21'	0.66	0.99	1.31	1.65	0.47	0.69	0.91	1.14	25	28	31	35
		24"	—	—	3'-5"	2.53'	7.18' △	9.71'	7.03' △	11'	1.73'	4.0'	5.50'	8.92'	12.33'	15.75'	1.25'	0.85	1.30	1.75	2.20	0.60	0.90	1.21	1.52	28	32	36	40
		30"	—	—	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	4.0'	6.08'	10.33'	14.58'	18.83'	1.29'	1.10	1.74	2.39	3.05	0.76	1.19	1.63	2.07	31	36	41	46
		36"	—	—	5'-1"	2.87'	11.31' ◇	14.18'	11.03' ◇	15'	2.24'	4.0'	6.67'	11.75'	16.83'	21.92'	1.33'	1.32	2.21	3.08	3.96	0.89	1.48	2.05	2.63	34	40	46	52
		42"	—	—	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	4.0'	7.25'	13.25'	19.25'	25.25'	1.38'	1.58	2.76	3.91	5.09	1.05	1.82	2.57	3.34	38	44	51	58
		48"	—	—	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	4.0'	7.83'	14.58'	21.33'	28.08'	1.42'	1.85	3.30	4.73	6.17	1.21	2.15	3.07	4.00	41	48	56	63
		54"	—	—	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	4.0'	8.42'	16.08'	23.75'	31.42'	1.46'	2.14	3.95	5.77	7.58	1.39	2.55	3.72	4.88	44	52	61	69
		60"	—	—	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	4.0'	9.00'	17.50'	26.00'	34.50'	1.50'	2.45	4.66	6.87	9.07	1.59	3.02	4.44	5.86	47	56	66	75
		66"	—	—	9'-2"	3.73'	21.62'	25.35'	21.03'	25'	3.18'	4.0'	9.58'	18.75'	27.92'	37.08'	1.54'	2.88	5.54	8.18	10.84	1.91	3.66	5.40	7.15	49	59	69	80
		72"	—	—	10'-0"	3.91'	23.68'	27.59'	23.03'	27'	3.30'	4.0'	10.16'	20.16'	30.16'	40.16'	1.58'	3.54	6.61	9.87	13.13	2.12	4.18	6.24	8.30	52	63	74	85
Elliptical Concrete Pipe	1:2 Slope	—	12"	18"	2'-10"	1.97'	1.62'	3.59'	1.56'	4'	1.50'	2.4'	4.92'	7.75'	10.58'	13.42'	1.21'	0.30	0.49	0.67	0.85	0.19	0.33	0.45	0.57	21	24	27	30
		—	14"	23"	3'-4"	2.01'	1.99'	4.00'	1.89'	5'	1.90'	3.1'	5.38'	8.71'	12.04'	15.38'	1.23'	0.37	0.59	0.81	1.02	0.25	0.40	0.55	0.69	22	26	29	33
		—	19"	30"	4'-0"	2.11'	2.92'	5.03'	2.73'	6'	2.37'	3.3'	6.04'	10.04'	14.04'	18.04'	1.27'	0.50	0.80	1.09	1.39	0.34	0.55	0.75	0.95	24	28	33	37
		—	24"	38"	5'-0"	2.20'	3.85'	6.05'	3.56'	7'	2.85'	3.4'	6.79'	11.79'	16.79'	21.79'	1.31'	0.62	1.03	1.45	1.86	0.43	0.71	1.00	1.28	26	31	37	42
		—	29"	45"	5'-11"	2.34'	4.79'	7.13'	4.39'	8'	3.19'	3.6'	7.50'	13.42'	19.33'	25.25'	1.38'	0.75	1.30	1.84	2.39	0.52	0.90	1.27	1.65	28	34	41	47
		—	34"	53"	7'-0"	2.43'	5.72'	8.15'	5.23'	9'	3.57'	3.8'	8.25'	15.25'	22.25'	29.25'	1.42'	0.90	1.61	2.32	3.03	0.62	1.11	1.60	2.09	30	37	45	53
		—	38"	60"	7'-10"	2.52'	6.46'	8.98'	5.89'	9'	3.95'	3.1'	8.92'	16.75'	24.58'	32.42'	1.46'	1.03	1.89	2.74	3.60	0.70	1.29	1.87	2.46	31	40	49	57
		—	43"	68"	8'-11"	2.62'	7.39'	10.01'	6.73'	10'	4.28'	3.3'	9.67'	18.58'	27.50'	36.42'	1.50'	1.19	2.26	3.33	4.40	0.81	1.54	2.26	2.99	33	43	53	63
		—	48"	76"	9'-11"	2.71'	8.33'	11.04'	7.56'	11'	4.59'	3.4'	10.42'	20.33'	30.25'	40.17'	1.54'	1.38	2.65	3.93	5.21	0.93	1.79	2.66	3.53	35	46	57	68
		—	53"	83"	10'-8"	2.80'	9.26'	12.06'	8.39'	12'	4.77'	3.6'	11.08'	21.75'	32.42'	43.08'	1.58'	1.55	3.03	4.50	5.96	1.04	2.04	3.03	4.02	37	49	61	73
		—	58"	91"	11'-8"	2.90'	10.19'	13.09'	9.23'	13'	5.01'	3.8'	11.83'	23.50'	35.17'	46.83'	1.63'	1.75	3.47	5.20	6.93	1.17	2.33	3.49	4.66	39	52	65	78
	1:4 Slope	—	12"	18"	2'-10"	2.36'	3.06'	5.42'	3.03'	5'	1.50'	2.0'	4.92'	7.75'	10.58'	13.42'	1.21'	0.45	0.68	0.92	1.14	0.30	0.45	0.61	0.76	23	26	29	32
		—	14"	23"	3'-4"	2.44'	3.75'	6.19'	3.70'	6'	1.90'	2.3'	5.38'	8.71'	12.04'	15.38'	1.23'	0.53	0.83	1.13	1.42	0.36	0.56	0.76	0.95	24	28	32	35
		—	19"	30"	4'-0"	2.62'	5.47'	8.09'	5.36'	8'	2.37'	2.6'	6.04'	10.04'	14.04'	18.04'	1.27'	0.74	1.15	1.57	1.98	0.51	0.79	1.08	1.36	27	32	36	40
		—	24"	38"	5'-0"	2.79'	7.18'	9.97'	7.03'	10'	2.85'	3.0'	6.79'	11.79'	16.79'	21.79'	1.31'	0.97	1.57	2.19	2.81	0.68	1.10	1.53	1.96	30	36	41	47
		—	29"	45"	5'-11"	3.05'	8.90'	11.95'	8.70'	12'	3.19'	3.3'	7.50'	13.42'	19.33'	25.25'	1.38'	1.22	2.07	2.92	3.77	0.86	1.45	2.04	2.63	33	40	46	53
		—	34"	53"	7'-0"	3.22'	10.62'	13.84'	10.36'	13'	3.57'	2.6'	8.25'	15.25'	22.25'	29.25'	1.42'	1.48	2.62	3.77	4.92	1.02	1.81	2.60	3.39	36	44	52	59
		—	38"	60"	7'-10"	3.39'	11.99'	15.38'	11.70'	15'	3.95'	3.3'	8.92'	16.75'	24.58'	32.42'	1.46'	1.72	3.12	4.53	5.92	1.18	2.14	3.10	4.05	38	47	56	65
		—	43"	68"	8'-11"	3.56'	13.71'	17.27'	13.36'	17'	4.28'	3.6'	9.67'	18.58'	27.50'	36.42'	1.50'	2.02	3.78	5.56	7.32	1.38	2.58	3.79	4.99	41	51	61	71
		—	48"	76"	9'-11"	3.73'	15.43'	19.16'	15.03'	19'	4.59'	4.0'	10.42'	20.33'	30.25'	40.17'	1.54'	2.34	4.49	6.64	8.79	1.59	3.05	4.51	5.97	44	55	66	77
		—	53"	83"	10'-8"	3.91'	17.15'	21.06'	16.70'	20'	4.77'	3.3'	11.08'	21.75'	32.42'	43.08'	1.58'	2.66	5.17	7.66	10.16	1.80	3.50	5.19	6.88	47	59	71	83
		—	58"	91"	11'-8"	4.08'	18.87'	22.95'	18.36'	22'	5.01'	3.6'	11.83'	23.50'	35.17'	46.83'	1.63'	3.02	5.98	8.95	11.90	2.04	4.04	6.05	8.05	50	63	76	89

B	E	
△ 6.42'	△ 6.25'	Dimensions permitted to allow use of 8' standard pipe lengths.
◇ 10.40'	◇ 10.10'	Dimensions permitted to allow use of 12' standard pipe lengths.

CONCRETE PIPE DIMENSIONS AND QUANTITIES

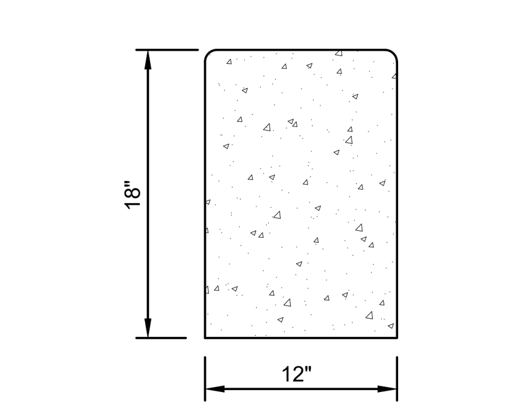
LAST REVISION	DESCRIPTION:			INDEX	SHEET
11/01/19		FDOT FY 2025-26 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	430-021	3 of 6

NOTE:
INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.
WATERTIGHT (WT) JOINTS SHOWN, SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.

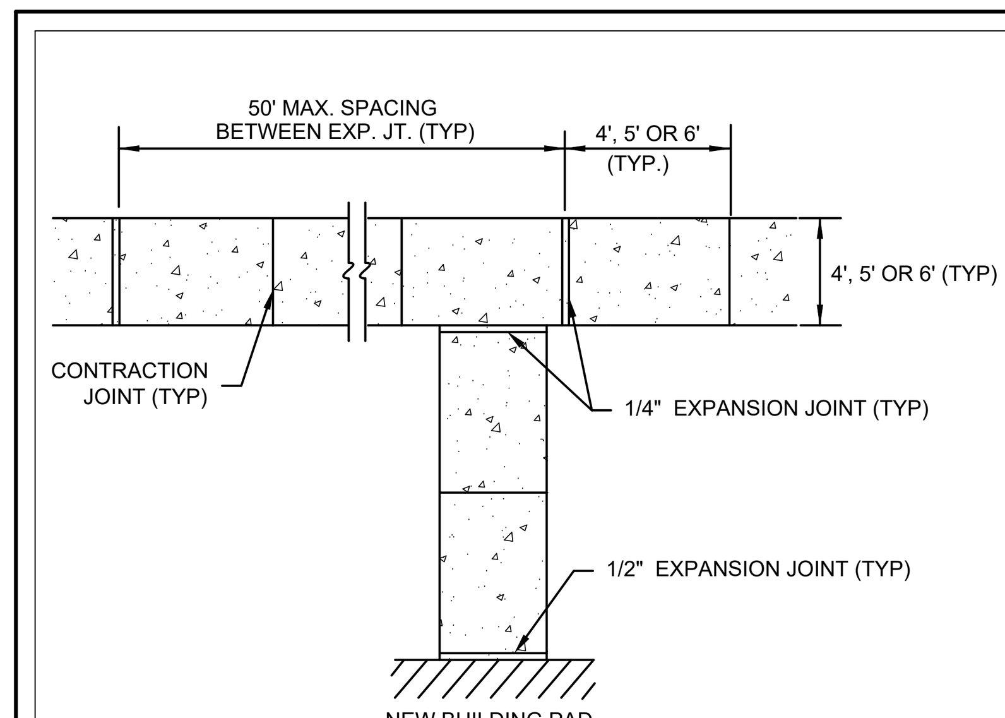


REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	UPDATED DRAWING	TJR	01/11/07	CKS

ROOF DRAIN W/45 DEG WYE CLEANOUT
DRAWING NUMBER: STD-1001
ADS ADVANCED DRAINAGE SYSTEMS, INC. 4640 TRUEMAN BLVD HILLIARD, OHIO 43026



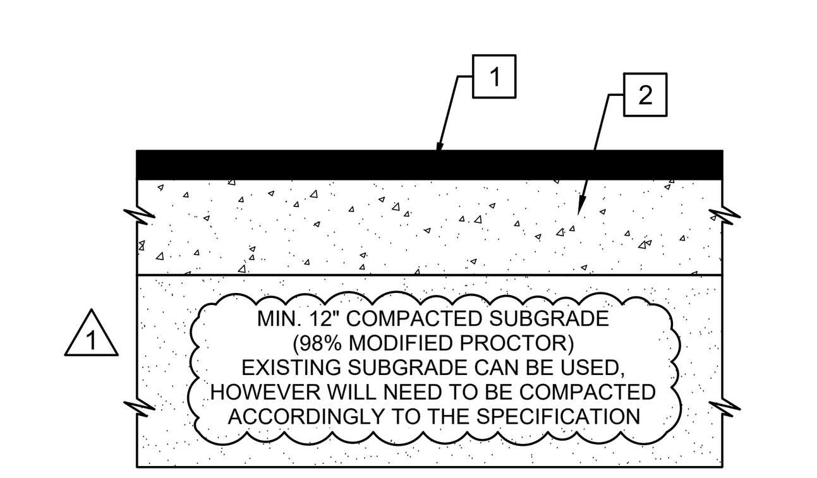
CONCRETE RIBBON CURB
NTS



TYPICAL SIDEWALK DETAIL
NTS

NOTES:
1. ALL SIDEWALKS SHALL BE 4" THICK, 3,000 PSI
2. FIBER MESH REINFORCEMENT MAY BE USED IN LIEU OF WIRE MESH. USE 1.5 POUNDS PER CUBIC YARD TYPE III SYNTHETIC FIBER (ASTM C1116-95).
3. GROUND IS TO BE COMPACTED PRIOR TO POURING (TOP 6" @ 95% MOD. PROCTOR)
4. ALL EXPOSED EDGES TO BE CHAMFERED.
5. WHERE SIDEWALK ABUTS PAVEMENT THICKEN TO 6" OVER 3'.
6. CONTRACTION JOINTS SHALL BE SPACED @ 4' INTERVALS FOR 4' SIDEWALKS, 5' INTERVALS FOR 5' SIDEWALKS AND 6' INTERVALS FOR 6'-0" SIDEWALKS.
7. CONTRACTION JOINTS SHALL BE 1" DEEP AND EDGED WITH 1/8" RADIUS.
8. 1/2" EXPANSION MATERIAL REQUIRED WHERE CONCRETE SIDEWALK ABUT CONCRETE STRUCTURE, CURB, OR PAVEMENT.
9. A LAYER OF 15# FELT IS REQUIRED BETWEEN WALK AND ADJACENT PARALLELING CONCRETE CURB.
10. ALL ACCESSIBLE ROUTES ARE TO BE IN STRICT ACCORDANCE WITH STATE OR FEDERAL ADA REQUIREMENTS, WHICHEVER IS STRICTER.

STANDARD PAVEMENT
1. 2" TYPE SP 12.5 ASPHALTIC SURFACE COURSE
2. 10" CRUSHED CONCRETE (125 LBR) or 6" SOIL CEMENT (300 psi MIN)



ASPHALT PAVEMENT SECTION
NTS

RENKER · EICH · PARKS ARCHITECTS
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LIC. AA C001447

100% CONSTRUCTION DOCUMENT SUBMITTAL
DMA CFMO # 224004
PALMETTO ESP RENOVATION
NATIONAL GUARD ARMORY
1107 14TH AVE W, PALMETTO, FL 34221

PROJECT NO.:1910.09
DATE: JULY 10, 2025
DRAWN BY:RG
REVISIONS:
1 06/17/26 - ADDENDUM # 2

SHEET TITLE:
DETAILS

SHEET NO.:
C6.1