05/15/2025

TIME: 12:19 PM

DATE: 5/15/2025

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-1 TITLE SHEET.dwg

CONSTRUCTION DRAWINGS

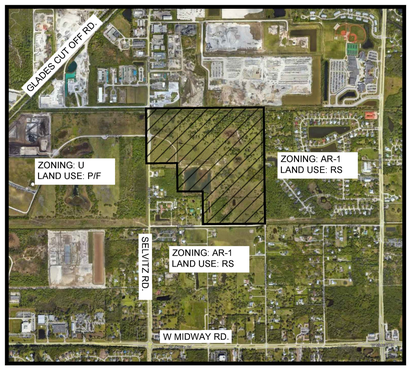
FOR

SYMPHONY LAKES

PLANNED DEVELOPMENT SUBDIVISION

FORT PEIRCE
ST. LUCIE COUNTY, FLORIDA

SECTION: 32 TOWNSHIP: 35S RANGE: 40E



SITE VICINITY MAP

SCALE: N.T.S



SITE LOCATION MAP

SCALE: N.T.S

PROJECT TEAM:

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LEGAL DESCRIPTION

Parcel ID's: 2432-211-0006-000-3, 2431-211-0005-000-6, 2432-343-0001-000-4

LANDS SITUATE IN SECTION 26, TOWNSHIP 35 SOUTH, RANGE 39 EAST, ST. LUCIE COUNTY, FLORIDA, AS FOLLOWS:

SELVITZ I, LLC

TRACT AA PARCEL OF LAND LYING IN SECTION 32, TOWNSHIP 35 SOUTH, RANGE 40 EAST, ST.LUCIE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR A POINTOF REFERENCE, COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 32; THENCE NORTH00°04'38" EAST, ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 32,A DISTANCE OF 1457.23 FEET; THENCE SOUTH 89°55'22" EAST, A DISTANCE OF 50.00FEET TO THE EAST RIGHT-OF-WAY LINE OF SELVITZ ROAD AND THE POINT OF BEGINNING.THENCE NORTH 00°04'38" EAST, ALONG THE SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 1013.67 FEET; THENCE SOUTH 89°58'14" EAST, A DISTANCE OF 150.00 FEET; THENCE NORTH 45°01'46' EAST, A DISTANCE OF 42.43 FEET; THENCE SOUTH 89°58'14" EAST, A DISTANCE OF 2007.17 FEET; THENCE SOUTH 00°07'05" EAST, A DISTANCE OF 1563.08FEET; THENCE SOUTH 89°55'13" WEST, A DISTANCE OF 1414.65 FEET; THENCE NORTH00°01'42" EAST, A DISTANCE OF 463.09 FEET; THENCE SOUTH 89°57'24" WEST, A DISTANCE OF 577.30 FEET; THENCE NORTH 45°02'36' WEST, A DISTANCE OF 70.71 FEET;THENCE SOUTH 89°57'24" WEST, A DISTANCE OF 150.00 FEET TO THE EAST RIGHT OF WAY LINE OF SELVITZ ROAD AND THE POINT OF BEGINNING.

SELVITZ II, LLC

THE NORTH 1/2 OF THE SOUTHWEST 1/4, THE NORTH 1/2 OF THE SOUTHEAST 1/4 OF THE SOUTH WEST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4,ALL IN SECTION 32, TOWNSHIP 35 SOUTH, RANGE 40 EAST, ST. LUCIE COUNTY, FLORIDA;LESS AND EXCEPT THOSE PORTIONS OF THE ABOVE DESCRIBED PROPERTY DESCRIBED IN RIGHT-OF-WAY DEEDS RECORDED IN DEED BOOK 140, PAGE 207 AND DEED BOOK 140, PAGE198, AND ALSO LESS AND EXCEPT RIGHT-OF-WAY FOR NORTH ST. LUCIE RIVER WATER MANAGEMENT DISTRICT CANAL NO. 101.

ALSO LESS AND EXCEPT THEREFROM:

A PARCEL OF LAND LYING IN SECTION 32, TOWNSHIP 35 SOUTH, RANGE 40 EAST, ST.LUCIE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR A POINT OF REFERENCE, COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 32; THENCE NORTH00°04'38" EAST, ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 32,A DISTANCE OF 1457.23 FEET; THENCE SOUTH 89°55'22" EAST, A DISTANCE OF 50.00FEET TO THE EAST RIGHT-OF-WAY LINE OF SELVITZ ROAD AND THE POINT OF BEGINNING.THENCE NORTH 00°04'38" EAST, ALONG THE SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 1013.67 FEET; THENCE SOUTH 89°58'14" EAST, A DISTANCE OF 150.00 FEET; THENCENORTH 45°01'46' EAST, A DISTANCE OF 42.43 FEET; THENCE SOUTH 89°58'14" EAST, A DISTANCE OF 2007.17 FEET; THENCE SOUTH 00°07'05" EAST, A DISTANCE OF 1563.08FEET; THENCE SOUTH 89°55'13" WEST, A DISTANCE OF 1414.65 FEET; THENCE NORTH00°01'42" EAST, A DISTANCE OF 463.09 FEET; THENCE SOUTH 89°57'24" WEST, A DISTANCE OF 577.30 FEET; THENCE NORTH 45°02'36' WEST, A DISTANCE OF 70.71 FEET;THENCE SOUTH 89°57'24" WEST, A DISTANCE OF 150.00 FEET TO THE EAST RIGHT OF WAY LINE OF SELVITZ ROAD AND THE POINT OF BEGINNING.

SELVITZ III, LLC

THE SOUTH ONE-HALF OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION32, TOWNSHIP 35 SOUTH, RANGE 40 EAST, ST. LUCIE COUNTY, FLORIDA. EXCEPTING THERE FROM, EASEMENTS FOR PUBLIC ROADS AND DRAINAGE CANALS.

CONTAINING: 5,349168 SQUARE FEET OR 122.8 ACRES, MORE OR LESS.

SHEET INDEX:

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G-2.2	GENERAL NOTES
C-1	EXISTING CONDITIONS
C-2.1	OVERALL HORIZONTAL CONTROL PLAN
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C-7	OFF-SITE IMPROVEMENTS
C-8	STORMWATER POLLUTION AND PREVENTION PLAN
C-9	STORMWATER POLLUTION AND PREVENTION DETAILS

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Date: 2025.05.15 13:06:07-04'00'

JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: TITLE SHEET

DRAWN BY: DCC
CHECKED BY:
APPROVED BY:
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. G-1

GENERAL NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST JURISDICTIONAL STANDARDS AND FDOT.
2. PAVEMENT STRIPING TO BE IN ACCORDANCE WITH JURISDICTIONAL SPECIFICATIONS AND WITH THE FLORIDA D.O.T. ROADWAY & TRAFFIC STANDARDS, CURRENT EDITION.
3. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
4. WHERE MUCK OR OTHER ORGANIC MATERIAL IS FOUND, IT SHALL BE REMOVED AND REPLACED WITH QUALITY BACKFILL MATERIAL OBTAINED FROM THE GRADING OPERATIONS OR OTHER SOURCE APPROVED BY THE ENGINEER. THE ORGANIC MATERIAL SHALL BE THEN USED AS TOP DRESSING WHEN MIXED WITH CLEAN SANDY SOIL.
5. THE CONTRACTOR SHALL NOTIFY JURISDICTIONAL PUBLIC WORKS DIVISION AND MILLS, SHORT & ASSOCIATES AT LEAST ONE WEEK BEFORE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR SHALL OBTAIN AN FDOT R/W PERMIT PRIOR TO COMMENCING WORK WITHIN FDOT RIGHT-OF-WAY'S.
6. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE FOR CONSTRUCTION OPERATIONS.
9. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
10. CONTRACTOR SHALL SUPPLY DENSITY TEST TO ENGINEER ON ALL SUB-GRADE AND BASE. TEST SHALL BE PREPARED PER AASHTO T-180 METHOD.
11. SLOPE GRADES FROM ELEVATIONS SHOWN TO THE EXISTING GRADE AT PROPERTY LINE.
12. CONTRACTOR SHALL NOTIFY ENGINEER AT LEAST 72 HOURS IN ADVANCE FOR ANY INSPECTIONS.
13. ANY EXISTING FLOW WELLS SHALL BE PLUGGED AS PART OF SITE DEVELOPMENT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
15. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRICTION AREA BEFORE COMMENCING WORK.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

PAVING AND DRAINAGE NOTES:

1. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES.
2. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.
3. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.
4. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE LOCATED AT FINISHED GRADE ELEVATION.
5. AS AN ALTERNATIVE, CONTRACTOR MAY USE ALTERNATIVE PIPE MATERIALS IN LIEU OF THOSE SPECIFIED IN THE CONSTRUCTION DOCUMENTS. HOWEVER, CONTRACTOR MUST RECEIVE APPROVAL OF ALTERNATIVE PIPE MATERIALS IN WRITING BY THE CONTROLLING JURISDICTION AND MILLS, SHORT & ASSOCIATES PRIOR TO CONSTRUCTION.
6. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. TOP SOIL WHICH HAS BEEN STRIPPED AND STOCK PILED DURING THE COURSE OF CONSTRUCTION SHALL BE REDISTRIBUTED ON ALL REGRADED SURFACES SO AS TO PROVIDE AT LEAST FOUR INCHES OF EVEN COVER TO ALL DISTURBED AREAS OF THE DEVELOPMENT AND SHALL BE STABILIZED BY SEEDING OR PLANTING.
7. ALL DISTURBED AREAS WITH SLOPES UP TO 6:1 SHALL BE SEEDED AND MULCHED. SLOPES STEEPER THAN 6:1 SHALL BE SODDED AND SLOPES 3:1 OR STEEPER SHALL HAVE THE SOD PEGGED.
8. SEE TABLE 2.0 ON SHEET G-3 FOR REQUIRED STORM PIPE COVER BENEATH AN UNPAVED SECTION, RIGID PAVEMENT, AND FLEXIBLE PAVEMENT.
9. THE TABULATED VALUES ARE RECOMMENDED MINIMUM DIMENSIONS TO WITHSTAND ANTICIPATED HIGHWAY TRAFFIC LOADS. ADDITIONAL COVER MAY BE REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT LOADS OR HIGHWAY TRAFFIC LOADS BEFORE PAVEMENT IS COMPLETED. SOME SIZE THICKNESS COMBINATIONS MAY REQUIRE MINIMUM COVER GREATER THAN THOSE LISTED ABOVE. SEE FDOT ROADWAY & TRAFFIC STANDARDS, CURRENT EDITION.
10. ALL RCP STORM WATER PIPE SHALL MEET THE COVER & CLASS CRITERIA AS OUTLINED IN FDOT ROADWAY & TRAFFIC STANDARDS, CURRENT EDITION.
11. ALL STORM PIPE JOINTS SHALL BE WRAPPED AS SPECIFIED IN FDOT ROADWAY & TRAFFIC STANDARDS, CURRENT EDITION.
12. THE LAST FOOT OF STORM WATER POND SHALL NOT BE EXCAVATED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
13. ANY FILL MATERIAL MUST BE APPROVED BY ENGINEER IN WRITING PRIOR TO PLACEMENT.
14. SIGNIFICANT CARE MUST BE TAKEN WHEN GRADING RETENTION PONDS TO ENSURE THAT POND BOTTOMS DO NOT BECOME COMPACTED DURING CONSTRUCTION OR SEALED BY CONSTRUCTION SEDIMENT. IF SEDIMENTATION OR COMPACTION OF A POND BOTTOM OCCURS, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE DESIGN HYDRAULIC CONDUCTIVITY.
15. THE SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD), REQUIRES ALL PROPERTY OWNERS TO PERFORM A STORMWATER SYSTEM INSPECTION TO ASSURE THE PONDS, INLETS, AND PIPES ON SITE ARE BEING WELL-MAINTAINED (E.G., PROPERLY MOWED AND CLEAR OF DEBRIS). THE INTENT IS TO GUARANTEE THAT CONTAMINATED RAIN RUN-OFF FROM THE PROPERTY WILL NOT ADVERSELY AFFECT THE SURROUNDING AREA.
16. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
17. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
18. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
19. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
20. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
21. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
22. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT.
23. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
24. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
25. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACTOR DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS AS NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
26. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
27. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL):1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
29. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORMWATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

SANITARY SEWER NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH JURISDICTIONAL MANUAL OF STANDARD SPECIFICATIONS FOR WASTEWATER CONSTRUCTION.
2. ALL MANHOLES SHALL BE 4 FT. INSIDE DIAMETER.
3. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.
4. ALL SANITARY SERVICE LATERALS SHALL BE 6 INCH DIAMETER, UNLESS SPECIFIED OTHERWISE ON PLANS.
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. MINIMUM AS BUILT 8" PVC SEWER LINE SLOPE WILL BE 0.40% MINIMUM SLOPE OR WILL BE RELAID BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.
7. MARK LATERALS WITH 4" X 4" X 8' PT POST PAINTED GREEN ON END.
8. PIPE MATERIAL IS ASTM D3034, SDR-26 UNLESS OTHERWISE NOTED.
9. A MINIMUM OF 1.00% SLOPE SHALL BE MAINTAINED ON THE SANITARY SEWER SERVICE LATERALS. AT NO TIME SHALL A SANITARY SEWER LATERAL HAVE A SLOPE OF 15% OR GREATER.
10. SANITARY SEWER GRAVITY MAINS ARE TO BE UPGRADED IN MATERIAL TO WATER MAINS STANDARDS AND HYDROSTATICALLY PRESSURE TESTED WITH WATER TO ENSURE JOINT TIGHTNESS IF EITHER OF THE HORIZONTAL OR VERTICAL MINIMUM REQUIRED CLEARANCE FROM A WATER MAIN CANNOT BE MAINTAINED OR IF THE SEWER MAIN IS ABOVE THE WATER MAIN.
11. LEAKAGE TESTS ARE SPECIFIED REQUIRING THAT:
    A. THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.
    B. EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
    C. AIR TESTS, AS MINIMAL, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES, AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.
12. DEFLECTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, CHAPTER 33.85, FOR ALL GRAVITY SANITARY SEWER LINES. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
    A. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
    B. USING A RIGID BALL OR MANDREL FOR THE PIPE DEFLECTION TESTS WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX. TO WHICH THE PIPE IS MANUFACTURED.
    C. PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

WATER MAIN CONSTRUCTION NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AS WELL AS THE UTILITY PROVIDERS MANUAL OF STANDARDS AND SPECIFICATIONS FOR WATER MAIN CONSTRUCTION.
2. SEPARATION REQUIREMENTS (SEE TABLE 1.0-UTILITY SEPARATIONS ON SHEET G-3)
    2.1. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS, SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:
        2.1.1. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
        2.1.2. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' AND PREFERABLY 10' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
        2.1.3. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 6' AND PREFERABLY 10' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING 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 WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO 3' WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6' ABOVE THE TOP OF THE SEWER.
    2.2. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS OR RECLAIMED WATER PIPELINES:
        2.2.1. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY GRAVITY OR VACUUM-TYPE SANITARY SEWER PIPE SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6" AND PREFERABLY 12" ABOVE OR AT LEAST 12" BELOW THE OUTSIDE OF THE OTHER PIPE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
        2.2.2. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAINS IS AT LEAST 12" ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
        2.2.3. AT THE UTILITY CROSSINGS DESCRIBED IN THE ABOVE PARAGRAPHS, 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 3' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST 6' FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
    2.3. NO WATER MAIN SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR A STORM SEWER MANHOLE.
    2.4. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST 3' FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST 3' BUT PREFERABLY 10' FROM 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. AND AT LEAST 10' FROM ANY EXISTING OR PROPOSED ON-SITE SEWAGE TREATMENT OR DISPOSAL SYSTEM AS DEFINED IN SECTION 381.00652(2), F.S. AND RULE 64E-6.002, F.A.C.
    2.5. EXCEPTIONS/MITIGATION:
        ADHERENCE TO THE ABOVE CONSTRAINTS AND SEPARATIONS IN THE ABOVE ITEMS SHALL BE COMPLIED WITHOUT EXCEPTION. IF FOR SOME REASON WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE THAT THE ABOVE ITEMS CANNOT BE COMPLIED WITH, CONTRACTOR IS TO STOP WORK AND NOTIFY THE ENGINEER OF RECORD FOR THE APPROPRIATE SOLUTION. THE SOLUTION WILL BE SUBMITTED TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR APPROVAL PRIOR TO WORK COMMENCEMENT.
3. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
4. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
5. ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSION WHERE NEEDED.
6. ALL PUBLIC WATER SYSTEMS COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT SHALL BE INSTALLED UNDER THIS PROJECT, AND THAT SHALL COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND SHALL BE MARKED WITH NSF SEAL OF APPROVAL.
7. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED MARKED IN ACCORDANCE WITH SUBPARAGRAPHS 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 WIDTH AND SHALL BE BLUE IN COLOR IF PAINT IS USED INSTEAD OF TAPE. 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 A LONG EACH SIDE OF THE PIPE AS WELL AS A LONG THE TOP OF THE PIPE.
8. ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES . SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR.
9. MARK DRINKING WATER SERVICES WITH A 4" X 4" X 8' PT POST PAINTED BLUE ON END.
10. PIPE MATERIALS: ALL PIPES, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.
    A. PVC WATER MAINS 4 INCHES TO 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC WATER MAINS 14 INCHES TO 36 INCHES SHALL BE IN ACCORDANCE WITH AWWA C905, LATEST EDITION AND SHALL BE DR18. PVC PIPES LESS THAN 4 INCHES ARE NOT ALLOWED INTHE UTILITY PROVIDERS. IN OTHER JURISDICTIONS, THEY SHALL BE IN ACCORDANCE WITH ASTM D1785 (SCHEDULE 40, 80, 120) OR ASTM D2241 SDR 21. MINIMUM WORKING PRESSURE FOR ALL PVC SHALL BE 150 PSI. ALL PVC PIPE SHALL HAVE THE SAME O.D. AS DUCTILE IRON PIPE. PVC PIPE JOINTS SHALL BE IN ACCORDANCE WITH ASTM D3139 AND AWWA STANDARDS.
    B. DUCTILE IRON PIPE SHALL CONFORM TO ANSI A21.51/AWWA C151 AND SHALL BE A MINIMUM OF CLASS 50. DUCTILE IRON JOINTS SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
    C. ALL SERVICES SHALL BE POLYETHYLENE TUBING, CLASS 160 AND SHALL BE IN ACCORDANCE WITH AWWA C901.
11. WATER MAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF THE UTILITIES DIVISION. ALL VALVES SHALL BE OPERATED BY PERSONNEL ONLY. WATER MAINS ARE TO BE DISINFECTED PER ANSIWWA C651-92 AND UTILITIES DIVISION MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION SECTION 51.6 WHICH INCLUDES A FULL FLUSH.
12. ALL VALVES SHALL BE LOCATED IN NON PAVED AREAS, UNLESS SPECIFIED ON PLANS.
13. FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.
14. IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATER MAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS. THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.
15. 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.
16. WHERE NEW OR ALTERED DEAD-END WATER MAINS INCLUDED IN THIS PROJECT CANNOT BE AVOIDED, THEY SHALL BE PROVIDED WITH A FIRE FLUSHING HYDRANT OR BLOW-OFF FOR FLUSHING PURPOSES.
17. ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT SHALL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET FROM 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.
18. WATER SERVICES ARE TO TERMINATE 1' OUTSIDE ROW ALONG THE PROPERTY LINE.
19. PROPOSED FIRE HYDRANTS CONNECTED TO THE POTABLE WATER MAIN, FOR THIS PROJECT, SHALL BE PAINTED PER JURISDICTION. FIRE HYDRANTS CONNECTED TO THE DESIGNATED FIRE LINE SHALL BE PAINTED PER JURISDICTION.
20. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(b)3,F.A.C. USING BLUES AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE-STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPED APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.) [FAC 62-555.320(21)(b)3]
21. THE OPEN END OF THE AIR RELIEF PIPE FROM ALL AUTOMATIC AIR RELIEF VALVES WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING ELBOW. [FAC 62-555.320(21)(b)3, AND RSWV.8.4.2]
22. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE. [FAC 62-555.320(21)(b)3, AND RSWV.8.5.2]
23. ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS WILL BE PROVIDED WITH THRUST BLOCKS OR RESTRAINED JOINTS TO PREVENT MOVEMENT. [FAC 62-555.320(21)(b)3, AND RSWV.8.5.4]
24. NEW OR ALTERED WATER MAIN INSTALLATION AND PRESSURE AND LEAKAGE TESTING, SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS. PVC WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C605. DUCTILE IRON WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C600.
25. NEW OR ALTERED WATERMAINS, INCLUDING FIRE HYDRANT LEADS AND SERVICE LINES THAT WILL BE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER, SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA C651.
26. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN-SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE. NFPA 1:16

FORCE MAIN NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH THE UTILITY PROVIDERS MANUAL OF STANDARDS AND SPECIFICATIONS FOR FORCE MAIN CONSTRUCTION.
2. PIPE LENGTHS SHOWN IN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
3. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
4. VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, THREADED EXTENSIONS WHERE NEEDED, UNLESS OTHERWISE NOTED.
5. ALL PVC FORCE MAIN SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
6. ALL NON-METALLIC FORCE MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC FORCE MAINS SHALL BE EITHER A SOLID GREEN COLOR OR WHITE WITH GREEN LETTERING. 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.
7. HYDROSTATIC & LEAKAGE TESTING OF THE FORCE MAIN SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600.
8. PIPE MATERIALS:
   PVC - SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARDS C900., LATEST EDITION. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 100 PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 25 UNLESS OTHERWISE NOTED. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE. PVC JOINT- SHALL BE IN ACCORDANCE WITH ASTM D3139. DUCTILE IRON JOINT- SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
9. AIR RELEASE VALVES SHALL BE REQUIRED AT ALL HIGH POINTS IN THE PROPOSED FORCE MAIN, AS SHOWN ON PLANS. HIGH POINTS IN THE FORCE MAIN ARE DEFINED AS A CHANGE IN ELEVATION TWICE THE DIAMETER OF THE PIPE.
10. ALL FORCE MAINS TO BE CONSTRUCTED WITH A MINIMUM OF 3' FEET OF COVER.
11. TESTING OF THE SEWAGE COLLECTION SYSTEM IS AS FOLLOWS:

A. ALL GRAVITY SEWER MAINS REQUIRE LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI-BELL STANDARD FOR LOW PRESSURE AIR TESTS. AIR TEST, AS A MINIMUM, SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM SPECIFICATIONS, ASTM F1417 FOR PLASTIC PIPE.
B. ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHANNEL CONSTRUCTION AND COAL TAR EPOXY PAINT THROUGHOUT.
C. HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND APPURTENANCES IN ACCORDANCE WITH AWWA C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 150 PSI FOR TWO (2) HOURS.
D. DEFLECTION TESTS ARE REQUIRED FOR ALL FLEXIBLE PIPE EXCLUDING FORCE MAINS. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.D MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.

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 CONCURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS.

A. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
B. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, WATER, REUSE AND WASTEWATER PIPING AND RELATED APPURTENANCES. ALL PIPING LOCATIONS INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.
C. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
D. 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.
E. LOCATION OF ALL INLETS AND MANHOLES, HYDRANTS, VALVES AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO PREFERABLY THREE PERMANENT POINTS.
F. DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE VERIFIED AND SHOWN. THE INVERTS AND GRADE ELEVATIONS OF ALL INLETS, CONTROL STRUCTURES AND MANHOLES SHALL BE SHOWN.
G. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. SPOT ELEVATIONS SHALL BE TAKEN AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AT 50' INTERVALS
H. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIM WATER MAINS AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA.
I. WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
J. WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSING, FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.

2. 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".

CLEARANCES:

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 90 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
2. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL UTILITY IMPROVEMENTS, PRESSURE TESTS, BACTERIOLOGICAL TESTS, AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS WITH F.D.E.P. AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL STORM WATER SYSTEM IMPROVEMENTS AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.

DEMOLITION NOTES:

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.

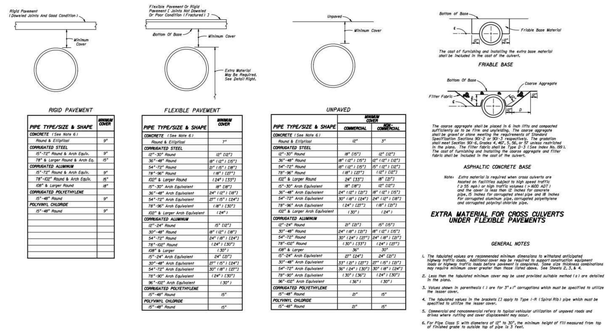
LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

Disclaimer – This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

TABLE 2.0 - STORM PIPE COVER



PIPE TYPE/SIZE & SHAPE	MINIMUM COVER
CONCRETE (See Note #1)	
Round & Elliptical	9"
CORRUGATED STEEL	
12"-30" Round	12" (12")
36"-48" Round	18" (18") ; 24" (24")
CORRUGATED ALUMINUM	
12"-15" Round & Arch Equiv.	9"
18"-102" Round & Arch Equiv.	12"
108" & Larger Round	24" (12")
CORRUGATED POLYETHYLENE	
12"-48" Round	9"
POLYVINYL CHLORIDE	
12"-48" Round	9"

PIPE TYPE/SIZE & SHAPE	MINIMUM COVER
CONCRETE (See Note #1)	
Round & Elliptical	7"
CORRUGATED STEEL	
12"-30" Round	12" (12")
36"-48" Round	18" (18") ; 24" (24")
54"-72" Round	24" (24")
84"-96" Round	30" (30")
102" & Larger Round	36" (36")
12"-30" Arch Equivalent	18" (18")
36"-48" Arch Equivalent	24" (12") ; 24" (24")
54"-72" Arch Equivalent	30" (12") ; 30" (24")
78"-96" Arch Equivalent	36" (12") ; 36" (24")
102" & Larger Arch Equivalent	42" (12") ; 42" (24")
CORRUGATED ALUMINUM	
12"-24" Round	12" (12")
30"-48" Round	18" (18") ; 24" (24")
54"-72" Round	24" (24") ; 30" (24")
78"-96" Round	30" (24") ; 36" (24")
102" & Larger	36"
12"-24" Arch Equivalent	24" (24")
30"-48" Arch Equivalent	24" (12") ; 24" (24")
54"-72" Arch Equivalent	30" (12") ; 30" (24")
78"-96" Arch Equivalent	36" (12") ; 36" (24")
102" & Larger Arch Equivalent	(36")
CORRUGATED POLYETHYLENE	
12"-48" Round	12"
POLYVINYL CHLORIDE	
12"-48" Round	12"

PIPE TYPE/SIZE & SHAPE	MINIMUM COVER	
	COMMERCIAL	RESIDENTIAL
CONCRETE (See Note #1)		
Round & Elliptical	12"	7"
CORRUGATED STEEL		
12"-30" Round	18" (12")	12" (12")
36"-48" Round	24" (12")	18" (12")
54"-72" Round	30" (12") ; 24" (24")	24" (12")
78"-96" Round	36" (12") ; 30" (24")	30" (12")
102" & Larger Round	42" (12") ; 36" (24")	36" (12")
12"-30" Arch Equivalent	24" (12")	18" (12")
36"-48" Arch Equivalent	30" (12") ; 24" (24")	24" (12")
54"-72" Arch Equivalent	36" (12") ; 30" (24")	30" (12")
78"-96" Arch Equivalent	42" (12") ; 36" (24")	36" (12")
102" & Larger Arch Equivalent	(42")	(36")
CORRUGATED ALUMINUM		
12"-24" Round	12" (12")	6" (12")
30"-48" Round	24" (12") ; 18" (24")	12" (12")
54"-72" Round	30" (12") ; 24" (24")	18" (12")
78"-96" Round	36" (12") ; 30" (24")	24" (12")
102" & Larger	42"	36"
12"-24" Arch Equivalent	24" (12")	18" (12")
30"-48" Arch Equivalent	30" (12") ; 24" (24")	24" (12")
54"-72" Arch Equivalent	36" (12") ; 30" (24")	30" (12")
78"-96" Arch Equivalent	42" (12") ; 36" (24")	36" (12")
102" & Larger Arch Equivalent	(42")	(36")
CORRUGATED POLYETHYLENE		
12"-48" Round	12"	6"
POLYVINYL CHLORIDE		
12"-48" Round	12"	6"

The coarse aggregate shall be placed to 6 inch lifts and compacted with vibratory plate tamper. The material shall be free of debris and shall be graded to allow meeting the requirements of Standard Specifications for Road and Bridge Construction, latest edition. The material shall meet Section 901-6, Grades A, #57, 5, 56, or 57 unless restricted by the Engineer. The material shall be free of debris. The use of Fortisterra soil stabilizer, the coarse aggregate and filter fabric shall be included in the cost of the system.

Note: Extra material is required when cross culverts are located on facilities subject to high speed traffic. The extra material shall be placed as shown in the table and the slope to be flat for distance for specified. Flat slopes are not required for roadways with curbs. For corrugated aluminum pipe, corrugated polyethylene and corrugated polyvinyl chloride pipe.

12" & Larger Arch Equivalent	18"
CORRUGATED ALUMINUM	
12"-24" Round	24" (12")
30"-48" Round	24" (18") ; 24" (24")
54"-72" Round	30" (18") ; 30" (24")
78"-96" Round	36" (18") ; 36" (24")
102" & Larger	42"
12"-24" Arch Equivalent	24" (12")
30"-48" Arch Equivalent	24" (18") ; 24" (24")
54"-72" Arch Equivalent	30" (18") ; 30" (24")
78"-96" Arch Equivalent	36" (18") ; 36" (24")
102" & Larger Arch Equivalent	42" (18") ; 42" (24")
CORRUGATED POLYETHYLENE	
12"-48" Round	12"
POLYVINYL CHLORIDE	
12"-48" Round	12"

EXTRA MATERIAL FOR CROSS CULVERTS UNDER FLEXIBLE PAVEMENTS

GENERAL NOTES

1. The tabulated values are recommended minimum dimensions to withstand anticipated highway traffic loads. Additional cover may be required to support construction equipment. Where highway surface is subject to future overlays or regrading, the minimum cover may require additional cover greater than those listed above. See Sheets D, S, & K.
2. Loads from the tabulated minimum cover may be used provided suitable method is in are detailed in the plans.
3. Values given in parenthesis ( ) are for 2"x1" corrugations which must be specified to utilize the lesser cover.
4. The tabulated values in the brackets [ ] apply to Type I-R (Spiral Rib) pipe which must be specified to utilize the lesser cover.
5. Commercial and noncommercial refers to typical vehicular utilization of unpaved roads and drives where cutting and cover displacement may occur.
6. For Pipe Class D with diameters of 42" to 90", the minimum height of fill measured from top of finished grade to outside top of pipe is 2 feet.

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James Mills

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DN: CN=James Mills, E=mills@millsshortassociates.com, O=James, SN=Mills, C=US
Date: 2025.05.15 13:08:12-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

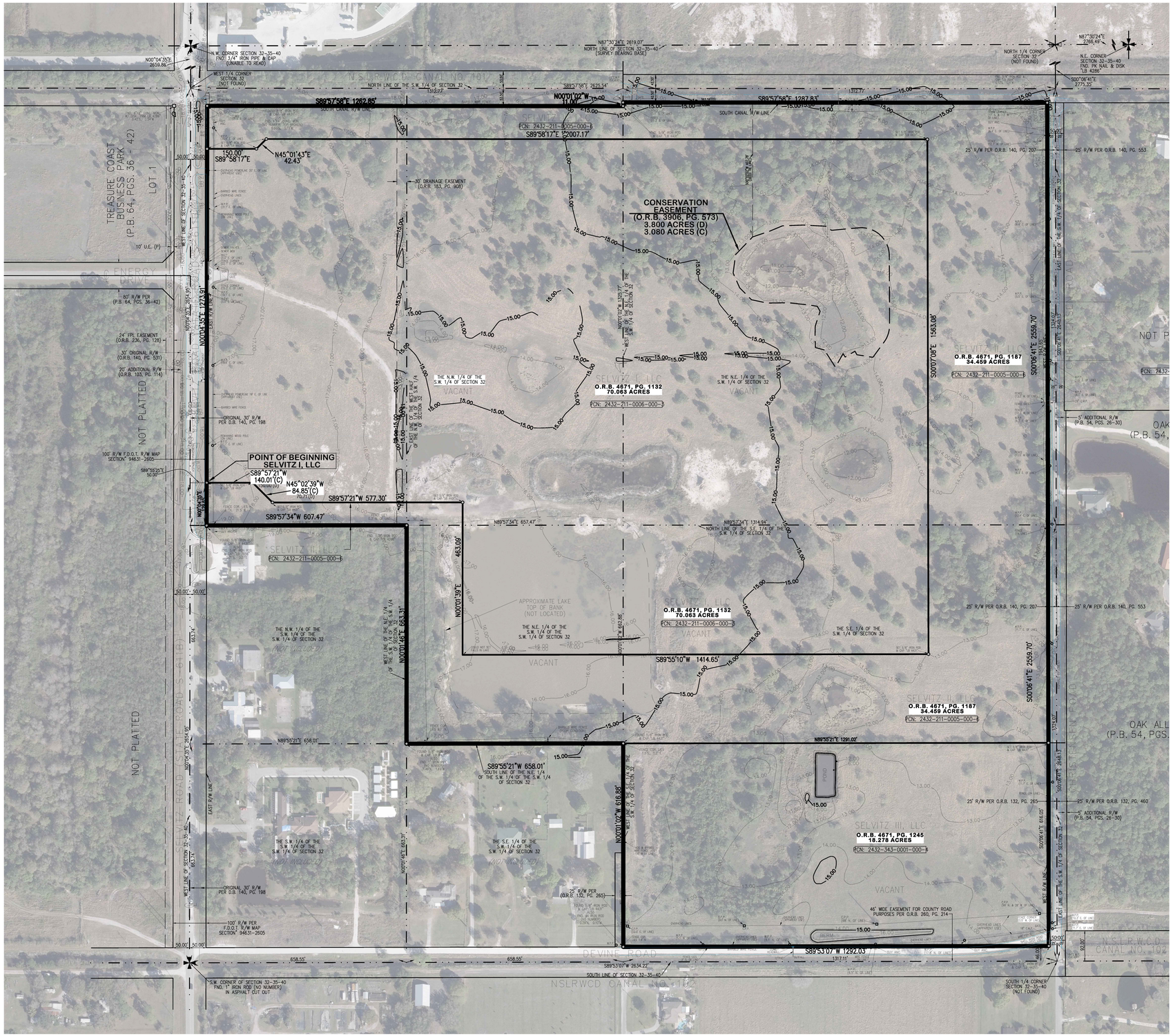
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: GENERAL NOTES

DRAWN BY: DCC
CHECKED BY:
APPROVED BY:
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.2

TIME: 12:14 PM
DATE: 5/15/2025
FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-1 GENERAL NOTES.dwg



N

SCALE:1" = 150'

0 75 150 300 Feet

ABBREVIATIONS:

(C) = CALCULATED
C.B.S. = CONCRETE BLOCK STRUCTURE
C.M.B. = COMMISSIONERS' MINUTES BOOK
CMH = CONFLICT MANHOLE
CONC. = CONCRETE
D.B. = DEED BOOK
F.H. = FIRE HYDRANT
FND. = FOUND
F.P.L. = FLORIDA POWER & LIGHT
I.P. = IRON PIPE
INV. = INVERT
I.R. = IRON ROD
LB = LICENSE BUSINESS
LP = LIGHT POLE
LS = LICENSE SURVEY
(M) = MEASURED
MH = MANHOLE
M.H.W.L. = MEAN HIGH WATER
MON. = MONUMENT
N.S.L.R.W.C.D.=NORTH ST. LUCIE RIVER WATER CONTROL DISTRICT
O.R.B. = OFFICIAL RECORD BOOK
(P) = PLAT
P.B. = PLAT BOOK
P.R.M. = PERMANENT REFERENCE MONUMENT
R.O.W. = RIGHT-OF-WAY
RCP = REINFORCED CONCRETE PIPE
R.P.B. = ROAD PLAT BOOK
(S) = SURVEY
SLP = STOP LIGHT POLE
SMH = SANITARY MANHOLE
SBTMH = SOUTHERN BELL TELEPHONE MANHOLE
STMH = STORM MANHOLE
TB = TRAFFIC BOX
TLP = TRAFFIC LIGHT POLE
TV = TELEVISION
U.E. = UTILITY EASEMENT
WP = WOOD POLE
WUP = WOOD UTILITY POLE
WV = WATER VALVE

SURVEYOR'S NOTES:

1. THIS IS A BOUNDARY SURVEY AS DEFINED IN CHAPTER 5J-17.050, FLORIDA ADMINISTRATIVE CODE.

2. LEGAL DESCRIPTION WAS BASED ON RECORDED DEEDS.

3. BEARING SHOWN HEREON ARE STATE PLANE AND ARE BASED ON THE NORTH AMERICA DATUM OF 1983; 1990 ADJUSTMENT. THE NORTH LINE OF SECTION 32, TOWNSHIP 35 SOUTH, RANGE 40 EAST BEARS NORTH 87°30'24" EAST,

4. THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE X, (NO BASE FLOOD ELEVATION); AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
INSURANCE RATE MAP NO.: 12111C0188J
MAP REVISED: FEBRUARY 16, 2012

5. TOTAL AREA = 122.800 ACRES, MORE OR LESS

6. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF ST. LUCIE COUNTY. EASEMENTS OR RESTRICTIONS SHOWN WERE FURNISHED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, COMMITMENT No. 1121827, DATED JULY 28, 2021 @ 11:00 PM.

7. THE EXPECTED USE OF THE SUBJECT PROPERTY FALLS WITHIN THE SUBURBAN CATEGORY AS CLASSIFIED IN CHAPTER 5J-17.051, FLORIDA ADMINISTRATIVE CODE. ALL FIELD-MEASURED CONTROL MEASUREMENTS EXCEEDED THE ACCURACY REQUIREMENTS FOR THIS CLASSIFICATION.

8. THIS SURVEY IS PREPARED ONLY FOR THE PARTIES LISTED BELOW AND IS NOT ASSIGNABLE. PREPARED FOR:
SELVITZ I, LLC
SELVITZ II, LLC
SELVITZ III, LLC

9.c COPYRIGHT 2021 BY LIDBERG LAND SURVEYING, INC.
THE SKETCH OF SURVEY AND SURVEY REPORT COMPRISE THE COMPLETE SURVEY. THIS SURVEY IS NOT VALID UNLESS THE SKETCH AND REPORT ACCOMPANY EACH OTHER. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID WITHOUT THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER EMPLOYED BY LIDBERG LAND SURVEYING, INC.

LIDBERG LAND SURVEYING, INC.

DATE OF SURVEY: BY:
DAVID C. LIDBERG
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA CERTIFICATE No. 3813

NOTES:

1. TREE MITIGATION TO BE COORDINATED WITH CoFP ENVIRONMENTAL.
2. ALL EXOTIC VEGETATION IS REQUIRED TO BE REMOVED FROM SITE DURING

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James Mills

Digitally signed by James Mills
DN: C=N=James Mills, E=mills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:08:13-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
EXISTING SITE CONDITIONS

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-1

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-1 EXISTING SITE CONDITIONS.dwg

DATE: 5/15/2025

TIME: 12:14 PM

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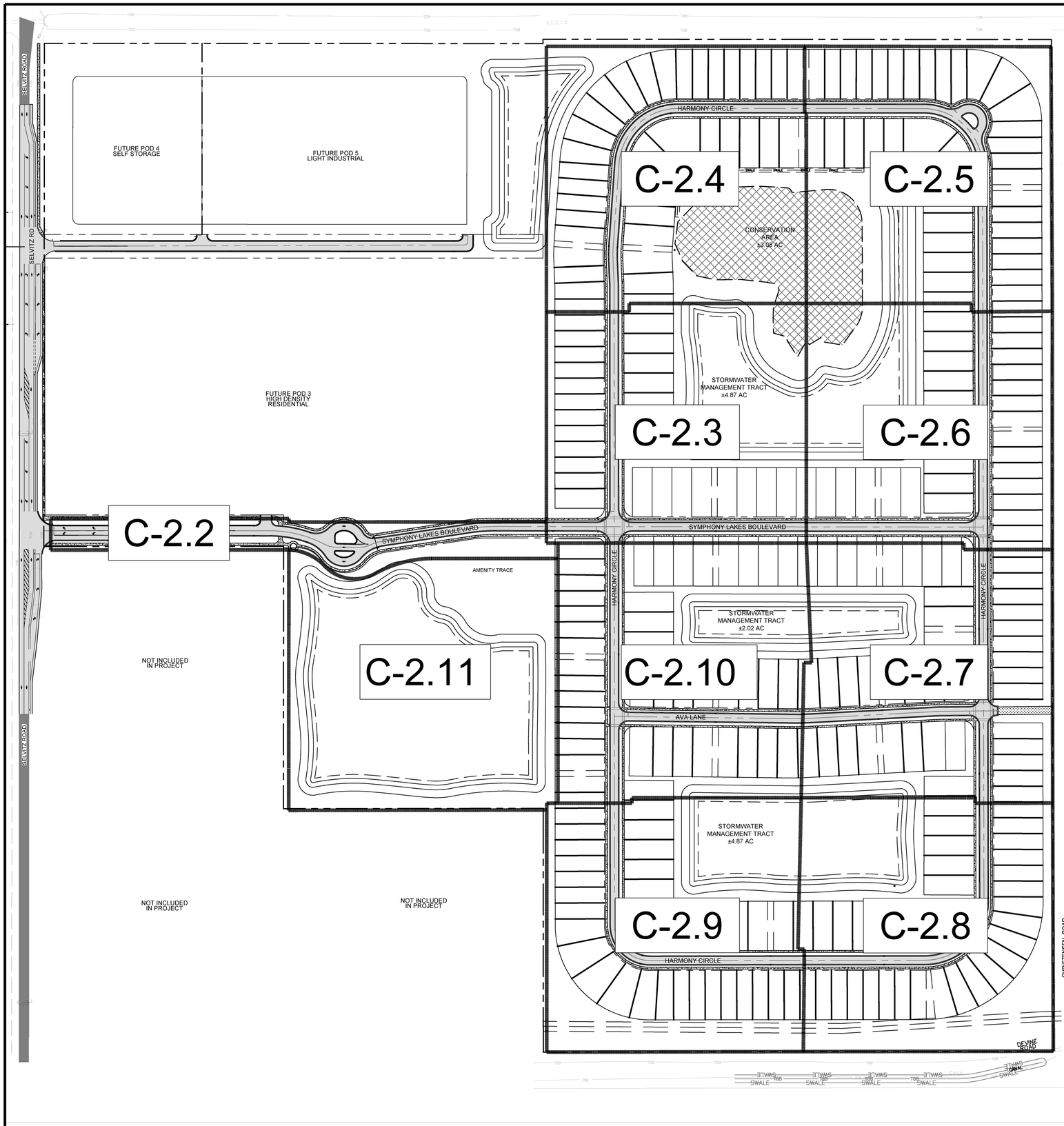
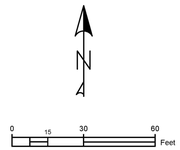




LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

A.	30" R1-1, HI-INTENSITY STOP SIGN w/ D3 STREET NAME
B.	CROSS-WALK PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
C.	24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
D.	ENTRY AND EXIT GATES
E.	5' CONCRETE SIDEWALK
F.	VALLEY GUTTER
G.	TYPE "D" CURB
H.	STREET LIGHT
I.	4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J.	4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K.	DETECTABLE WARNING STRIP FDOT INDEX #522-002
L.	EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

GENERAL NOTES:

1.) ALL TRAFFIC CONTROL SIGNAGE, SIZES, HEIGHTS AND PLACEMENTS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FDOT DESIGN STANDARDS, AND THE I.R.C. TYPICAL DRAWINGS FOR ROADWAY SIGNING, STRIPING & GEOMETRICS, LATEST EDITIONS.

2.) ALL NUISANCE EXOTIC VEGETATION EXISTING ON SITE MUST BE REMOVED IN CONJUNCTION WITH SITE DEVELOPMENT.

3.) NO CONSTRUCTION, TREES, OR SHRUBS WILL BE PLACED IN EASEMENTS WITHOUT COUNTY APPROVAL.

4.) ALL SOLID, NON-BREAKAWAY OBJECTS (POSTS, BOLLARDS, STREETLIGHTS, GATE SUPPORTS) SHALL BE LOCATED A MINIMUM DISTANCE OF 2.5-FEET FROM FACE OF CURB WHERE A TYPE 'D' CURB EXISTS OR 6-FEET FROM THE EDGE OF TRAVEL LANE WHERE MOUNTABLE CURB EXISTS.

5.) STREET NAME SIGNS SHALL BE 8" HIGH WITH 6" LETTERS.

6.) KEY ACCESS BOX (KNOX) WILL BE PROVIDED AT ENTRANCE GATE

7.) ALL UTILITIES WILL BE UNDERGROUND.

8.) DRIVEWAYS ARE REQUIRED TO BE 5' OFF SIDE LOT LINES.

9.) POTABLE WATER WILL BE PROVIDED BY INDIAN RIVER COUNTY DEPARTMENT OF UTILITIES SERVICES.

10.) ALL PAVEMENT MARKINGS 25' BACK FROM INDIAN RIVER COUNTY ROW LINE SHALL CONSIST OF 90 MIL EXTRUDED ALKYD BASE THERMOPLASTIC. ALL OTHER ON-SITE PAVEMENT MARKINGS ARE TO BE PAINTED.

11.) ALL IMPACTS TO COUNTY RIGHT-OF-WAY SHALL BE SODDED WITHIN 3 DAYS OF FINAL GRADING.

12.) PLAT OVER SITE PLAN MUST BE CONSTRUCTED TO FDOT SPECIFICATIONS, INCLUDING SECTION 430.

DEDICATED EASEMENTS AND TRACTS:

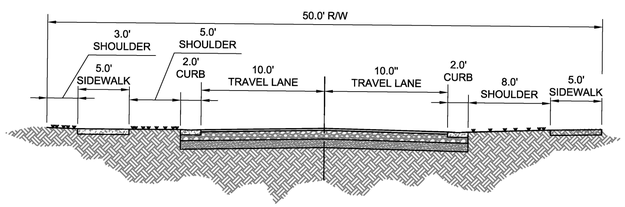
1.) SUBDIVISION RIGHT-OF-WAY TO BE DEDICATED TO AND MAINTAINED BY THE HAWK'S LANDING HOA.

2.) ALL PROPOSED EASEMENTS TO REMAIN PRIVATE. OWNERSHIP WILL BE MAINTAINED BY THE HAWK'S LANDING HOA.

3.) LANDSCAPE BUFFER TRACT TO BE DEDICATED TO AND MAINTAINED BY THE HAWK'S LANDING HOA.

4.) ALL OPEN SPACE TRACTS TO BE DEDICATED TO AND MAINTAINED BY THE HAWK'S LANDING HOA.

5.) SWM TRACT TO BE DEDICATED TO AND MAINTAINED BY THE HAWK'S LANDING HOA.



50' PRIVATE RIGHT-OF-WAY
SCALE: NTS

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James Mills

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DN: CN=James Mills, E=mailto:jmills@millsshortassociates.com, O=James, SN=Mills, C=US
Date: 2025.05.15 13:05:15-04'00'

JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

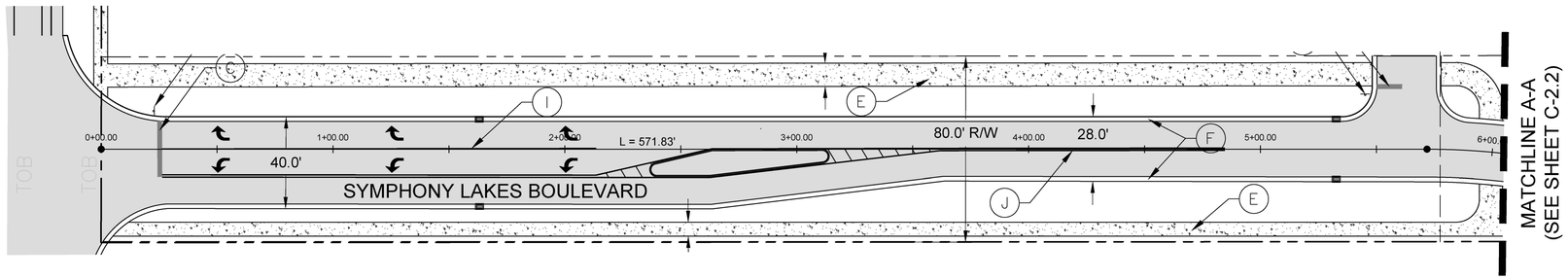
ISSUE	DATE	COMMENTS

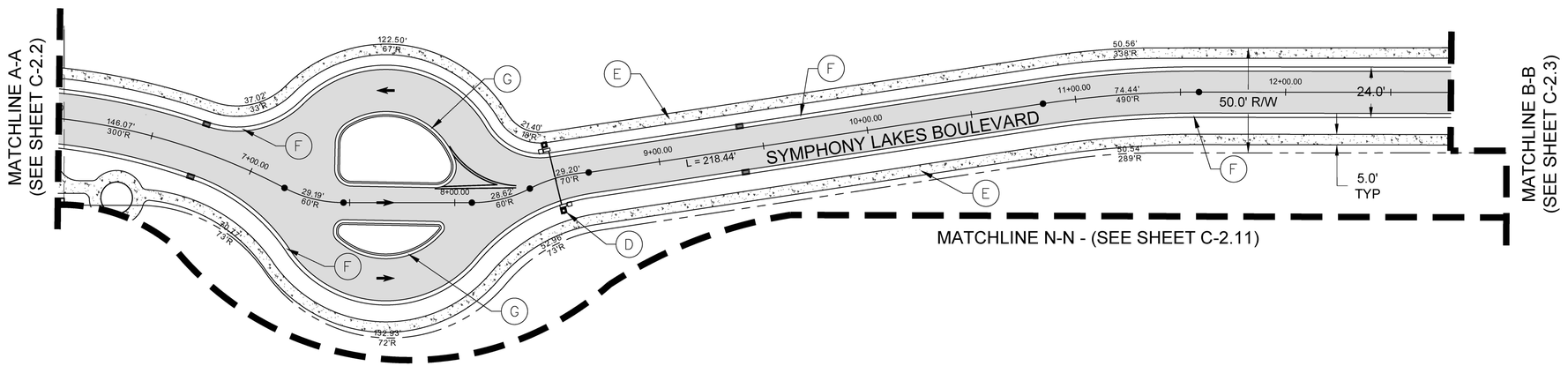
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

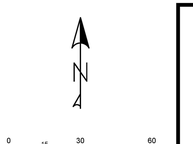
THIS SHEET
OVERALL HORIZONTAL CONTROL SHEET

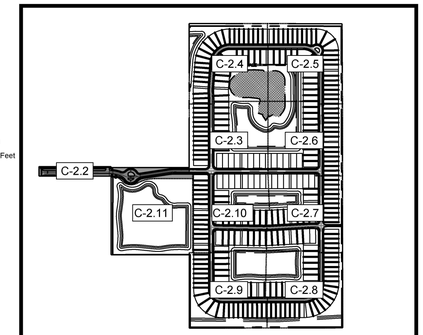
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.1









VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

A. 30" R1-1, HI-INTENSITY STOP SIGN w/ D3 STREET NAME
B. CROSS-WALK PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
C. 24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
I. 4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

GENERAL NOTES:

1.) ALL TRAFFIC CONTROL SIGNAGE, SIZES, HEIGHTS AND PLACEMENTS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FDOT DESIGN STANDARDS, AND THE I.R.C. TYPICAL DRAWINGS FOR ROADWAY SIGNING, STRIPING & GEOMETRICS, LATEST EDITIONS.
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3.) NO CONSTRUCTION, TREES, OR SHRUBS WILL BE PLACED IN EASEMENTS WITHOUT COUNTY APPROVAL.
4.) ALL SOLID, NON-BREAKAWAY OBJECTS (POSTS, BOLLARDS, STREETLIGHTS, GATE SUPPORTS) SHALL BE LOCATED A MINIMUM DISTANCE OF 2.5-FEET FROM FACE OF CURB WHERE A TYPE 'D' CURB EXISTS OR 6-FEET FROM THE EDGE OF TRAVEL LANE WHERE MOUNTABLE CURB EXISTS.
5.) STREET NAME SIGNS SHALL BE 8" HIGH WITH 6" LETTERS.
6.) KEY ACCESS BOX (KNOX) WILL BE PROVIDED AT ENTRANCE GATE
7.) ALL UTILITIES WILL BE UNDERGROUND.
8.) DRIVEWAYS ARE REQUIRED TO BE 5' OFF SIDE LOT LINES.
9.) POTABLE WATER WILL BE PROVIDED BY INDIAN RIVER COUNTY DEPARTMENT OF UTILITIES SERVICES.
10.) ALL PAVEMENT MARKINGS 25' BACK FROM INDIAN RIVER COUNTY ROW LINE SHALL CONSIST OF 90 MIL EXTRUDED ALKYD BASE THERMOPLASTIC. ALL OTHER ON-SITE PAVEMENT MARKINGS ARE TO BE PAINTED.
11.) ALL IMPACTS TO COUNTY RIGHT-OF-WAY SHALL BE SODDED WITHIN 3 DAYS OF FINAL GRADING.
12.) PLAT OVER SITE PLAN MUST BE CONSTRUCTED TO FDOT SPECIFICATIONS, INCLUDING SECTION 430.

DEDICATED EASEMENTS AND TRACTS:

1.) SUBDIVISION RIGHT-OF-WAY TO BE DEDICATED TO AND MAINTAINED BY THE HAWK'S LANDING HOA.

2.) ALL PROPOSED EASEMENTS TO REMAIN PRIVATE. OWNERSHIP WILL BE MAINTAINED BY THE HAWK'S LANDING HOA.

3.) LANDSCAPE BUFFER TRACT TO BE DEDICATED TO AND MAINTAINED BY THE HAWK'S LANDING HOA.

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JAMES W. MILLS
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: HORIZONTAL CONTROL PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.2

05/15/2025

TIME: 12:15 PM

DATE: 5/15/2025

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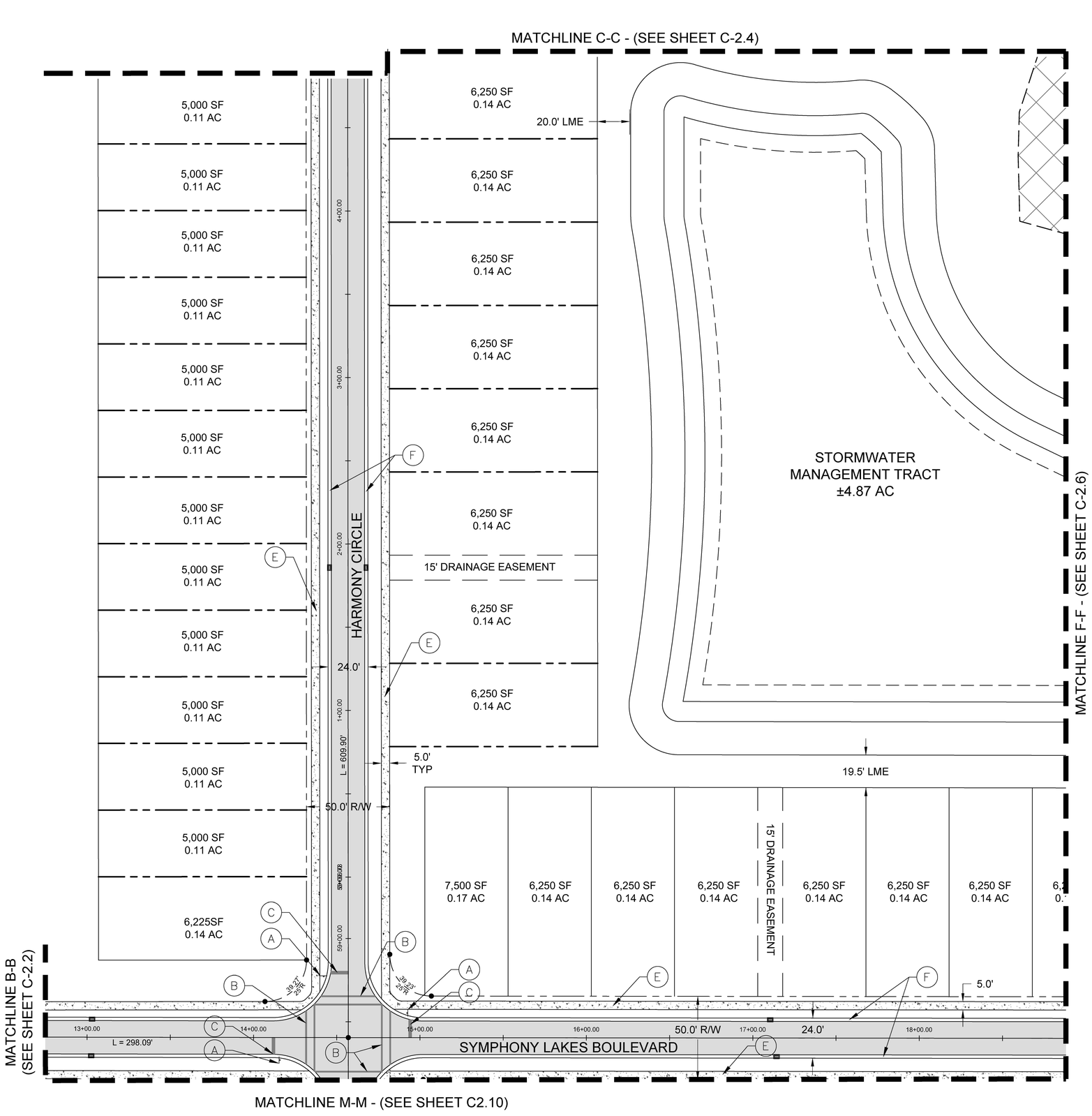

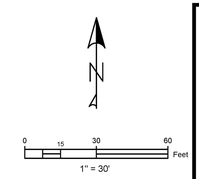

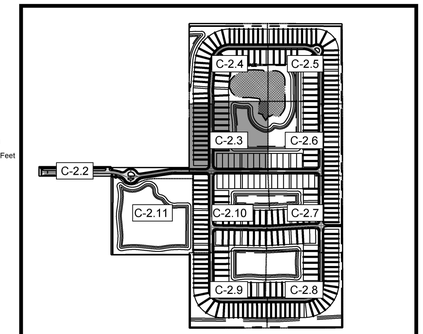

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

A. 30" R1-1, HI-INTENSITY STOP SIGN w/ D3 STREET NAME
B. CROSS-WALK PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
C. 24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
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L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

Mills, Short & Associates
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JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: HORIZONTAL CONTROL PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.3

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-3 HORIZONTAL CONTROL PLAN.dwg
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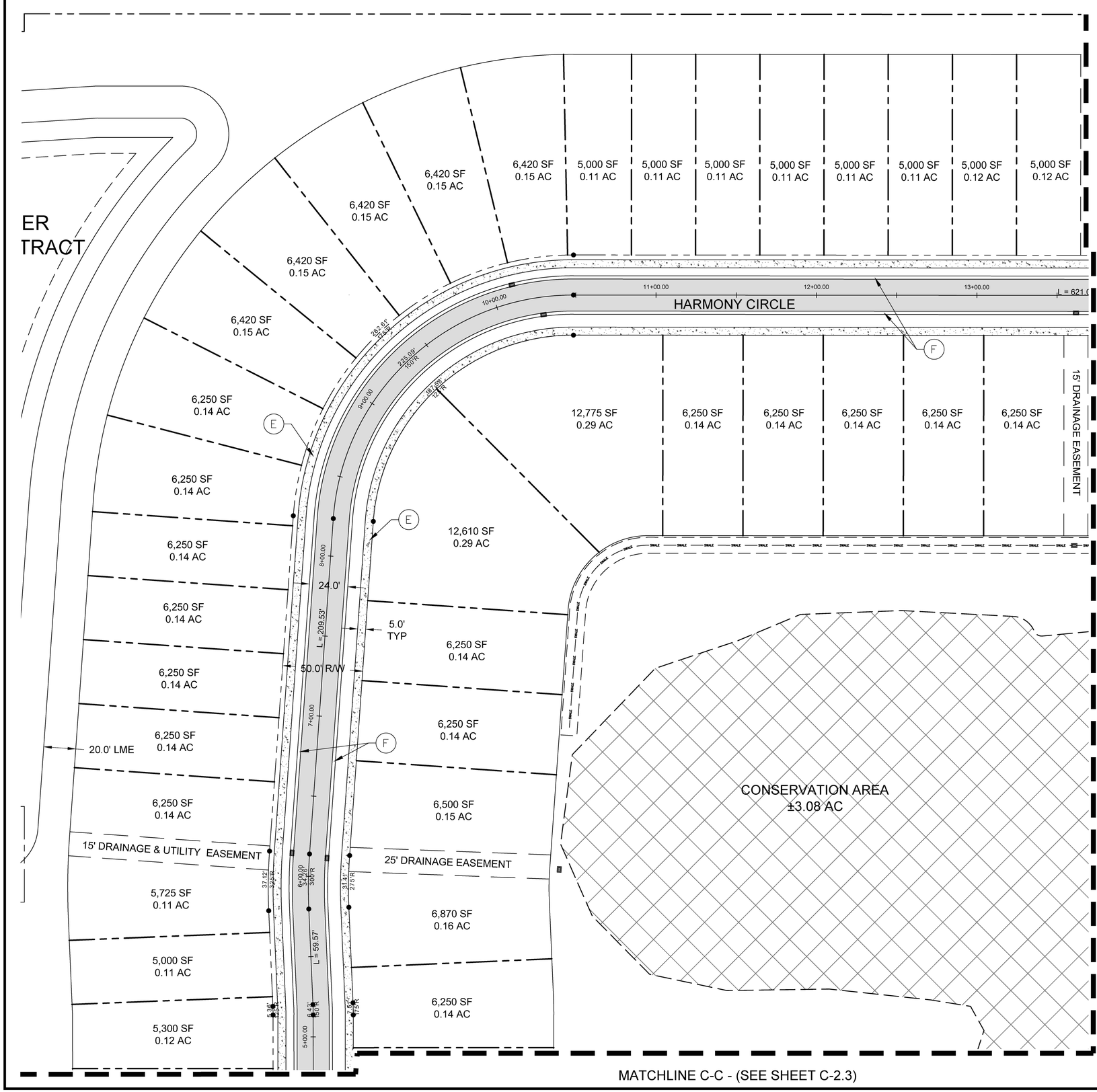

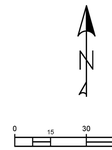

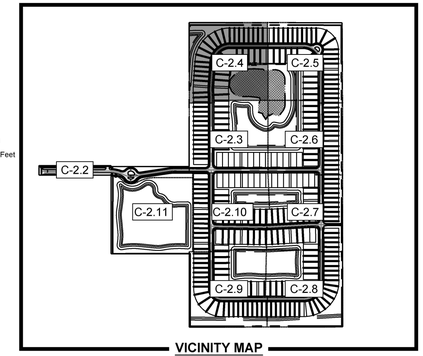

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

A. 30" R1-1, HI-INTENSITY STOP SIGN w/ D3 STREET NAME
B. CROSS-WALK PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
C. 24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
I. 4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

Mills, Short & Associates
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Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: C=N=James Mills, E=mailto:jmills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:06:21-04'00'

JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981
THIS SHEET
HORIZONTAL CONTROL PLAN
DRAWN BY DCC
CHECKED BY JWM
APPROVED BY JWM
SCALE: SEE SHEET

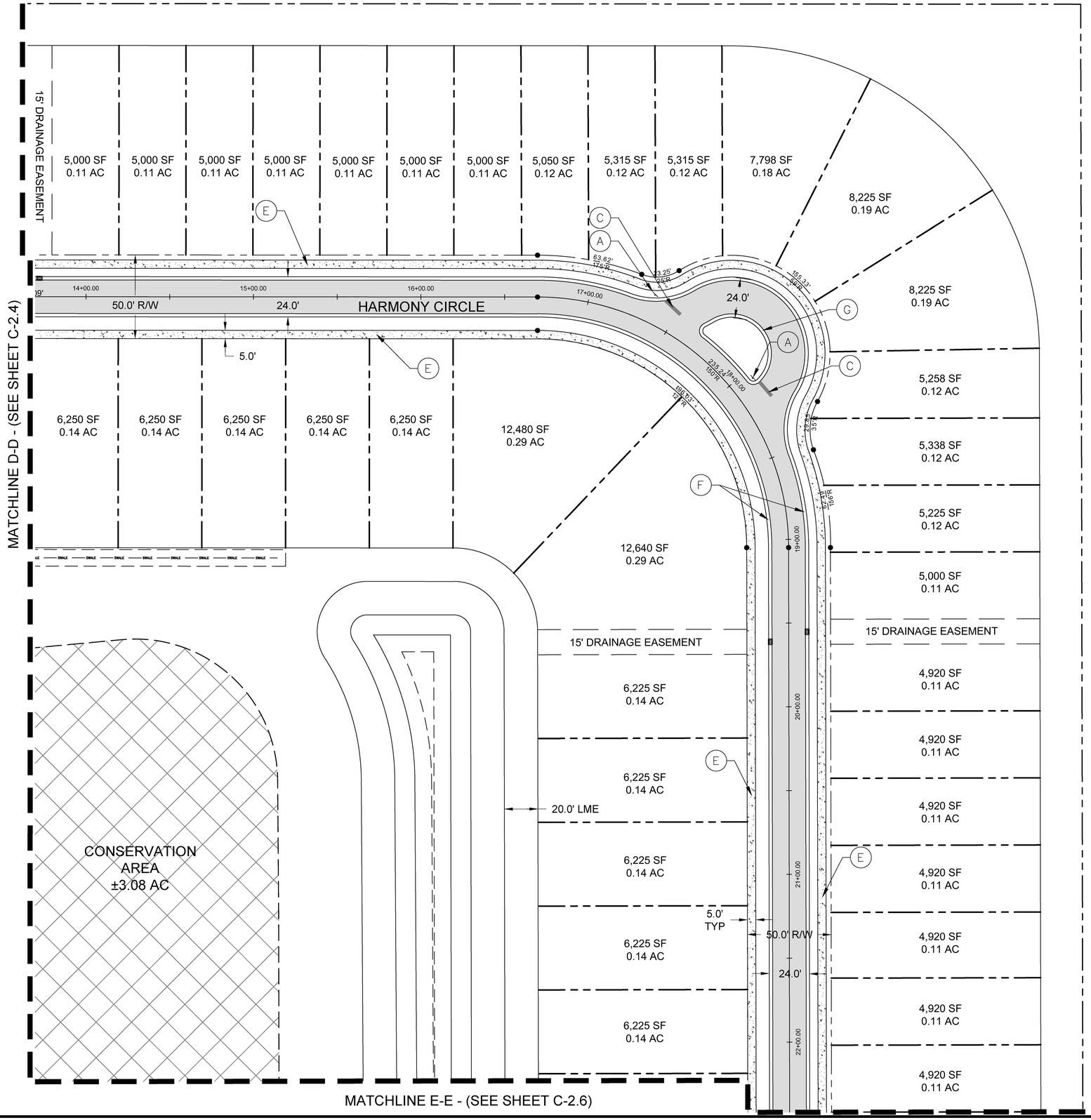
PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.4

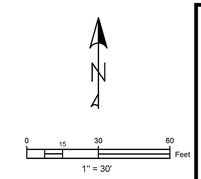
05/15/2025

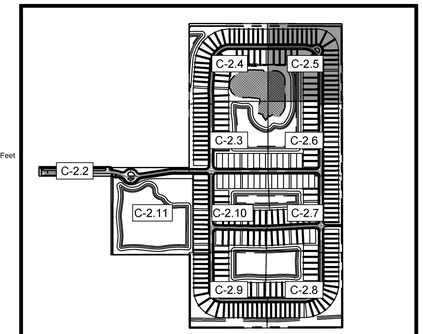
FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-3 HORIZONTAL CONTROL PLAN.dwg

DATE: 5/15/2025

TIME: 12:15 PM







VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
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- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

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D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
I. 4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

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Vero Beach, Florida 32960

James Mills

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Date: 2025.05.15 13:08:23-04'00'

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PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
HORIZONTAL CONTROL PLAN

DRAWN BY DCC
CHECKED BY JWM
APPROVED BY JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.5

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-3 HORIZONTAL CONTROL PLAN.dwg
DATE: 5/15/2025
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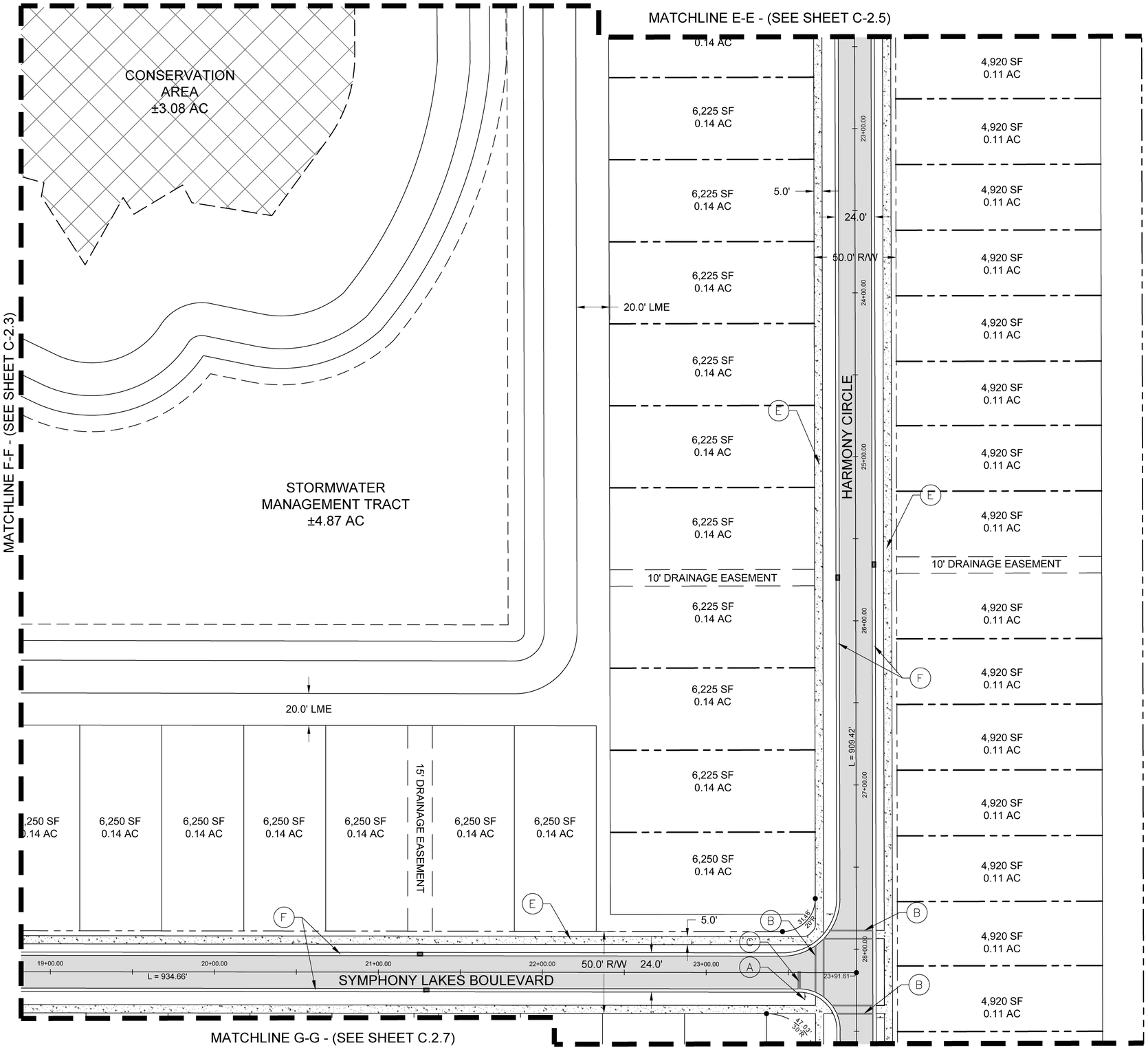

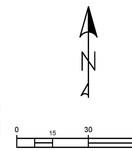

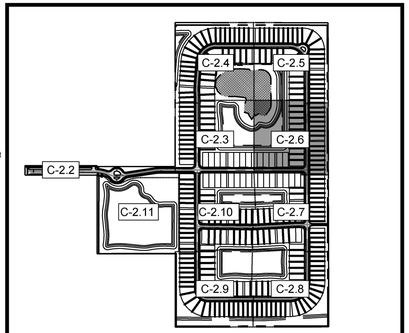

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

A. 30" R1-1, HI-INTENSITY STOP SIGN w/ D3 STREET NAME
B. CROSS-WALK PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
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D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
I. 4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

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James Mills
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Date: 2025.05.15 13:05:25-04'00'

JAMES W. MILLS
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No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: HORIZONTAL CONTROL PLAN
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-2.6

05/15/2025

TIME: 12:15 PM

DATE: 5/15/2025

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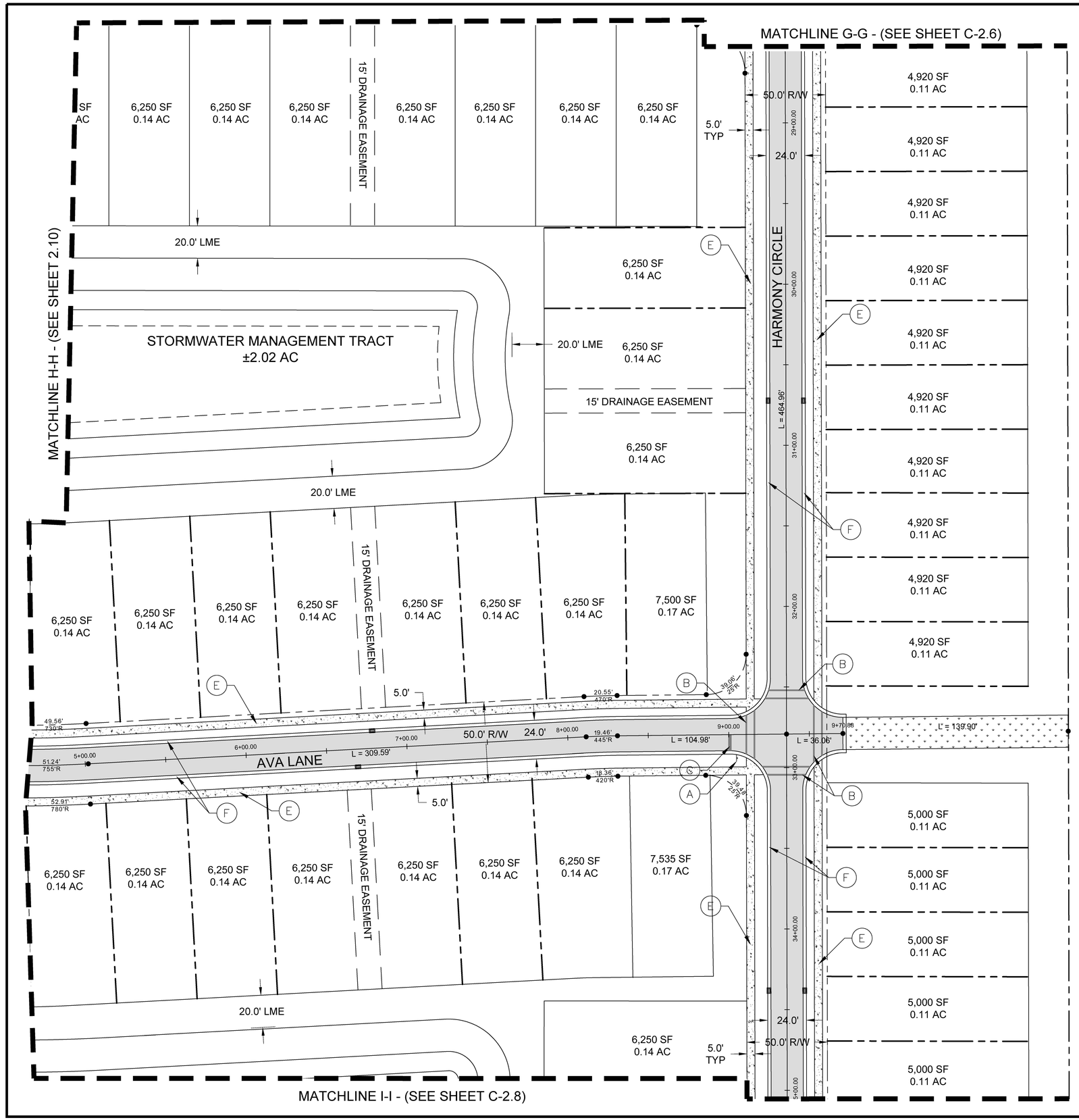

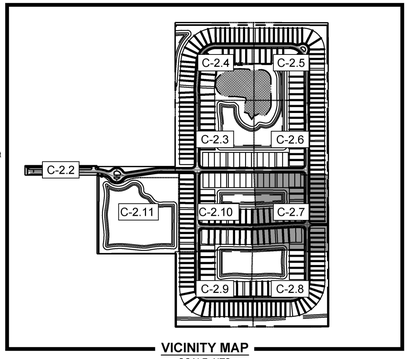

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
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- PROPOSED CONCRETE
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- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

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E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
I. 4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

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James Mills

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Date: 2025.05.15 13:08:27-04'00'

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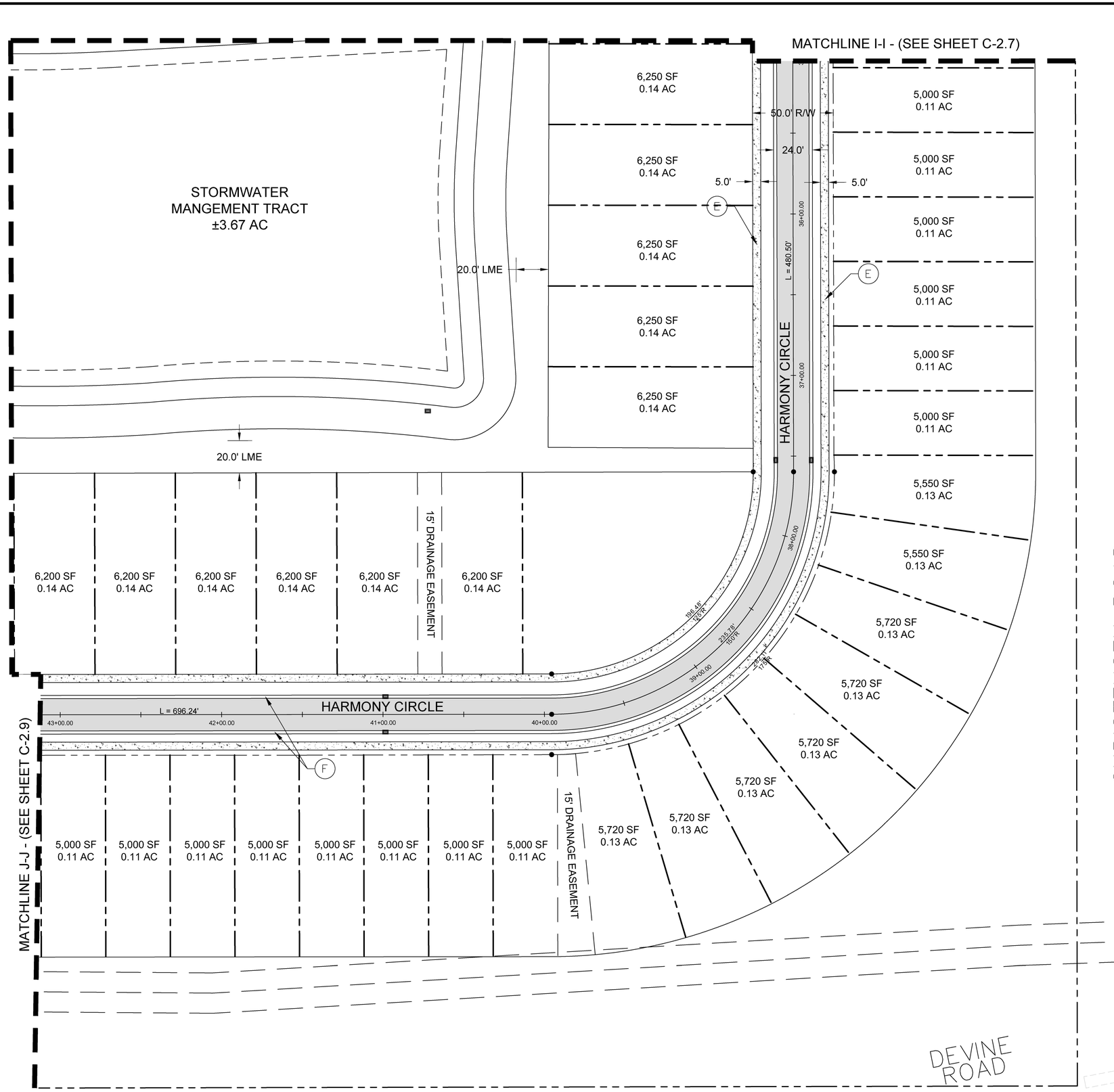
ISSUE	DATE	COMMENTS

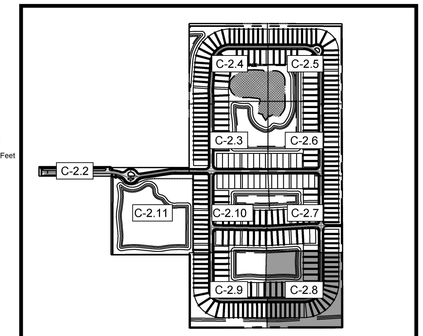
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
HORIZONTAL CONTROL PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.7





VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

A. 30" R1-1, HI-INTENSITY STOP SIGN w/ D3 STREET NAME
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C. 24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
I. 4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

Mills, Short & Associates
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Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: CN=James Mills, E=mills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:08:29-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
HORIZONTAL CONTROL PLAN

DRAWN BY DCC
CHECKED BY JWM
APPROVED BY JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.8

TIME: 12:15 PM
DATE: 5/15/2025
FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-3 HORIZONTAL CONTROL PLAN.dwg

05/15/2025

TIME: 12:15 PM

DATE: 5/15/2025

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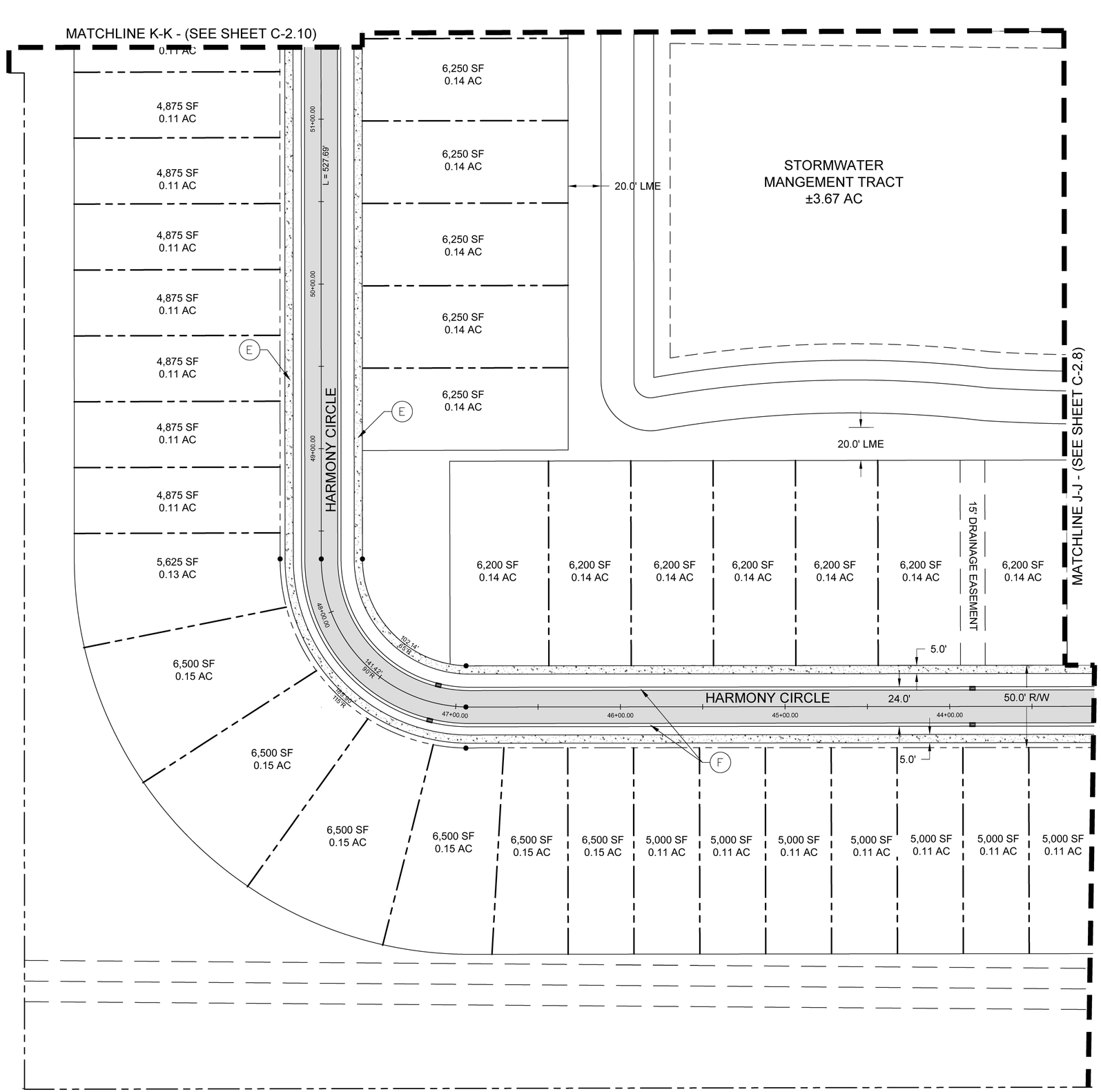

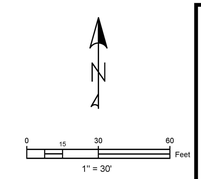

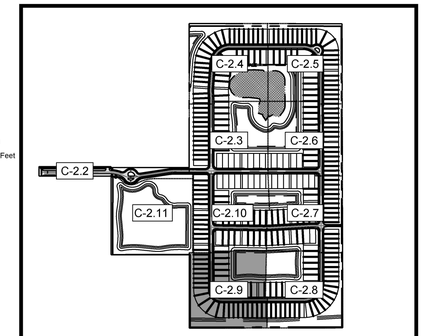

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
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- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

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D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
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J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

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James Mills

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ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
HORIZONTAL CONTROL PLAN

DRAWN BY DCC
CHECKED BY JWM
APPROVED BY JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.9

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-3 HORIZONTAL CONTROL PLAN.dwg
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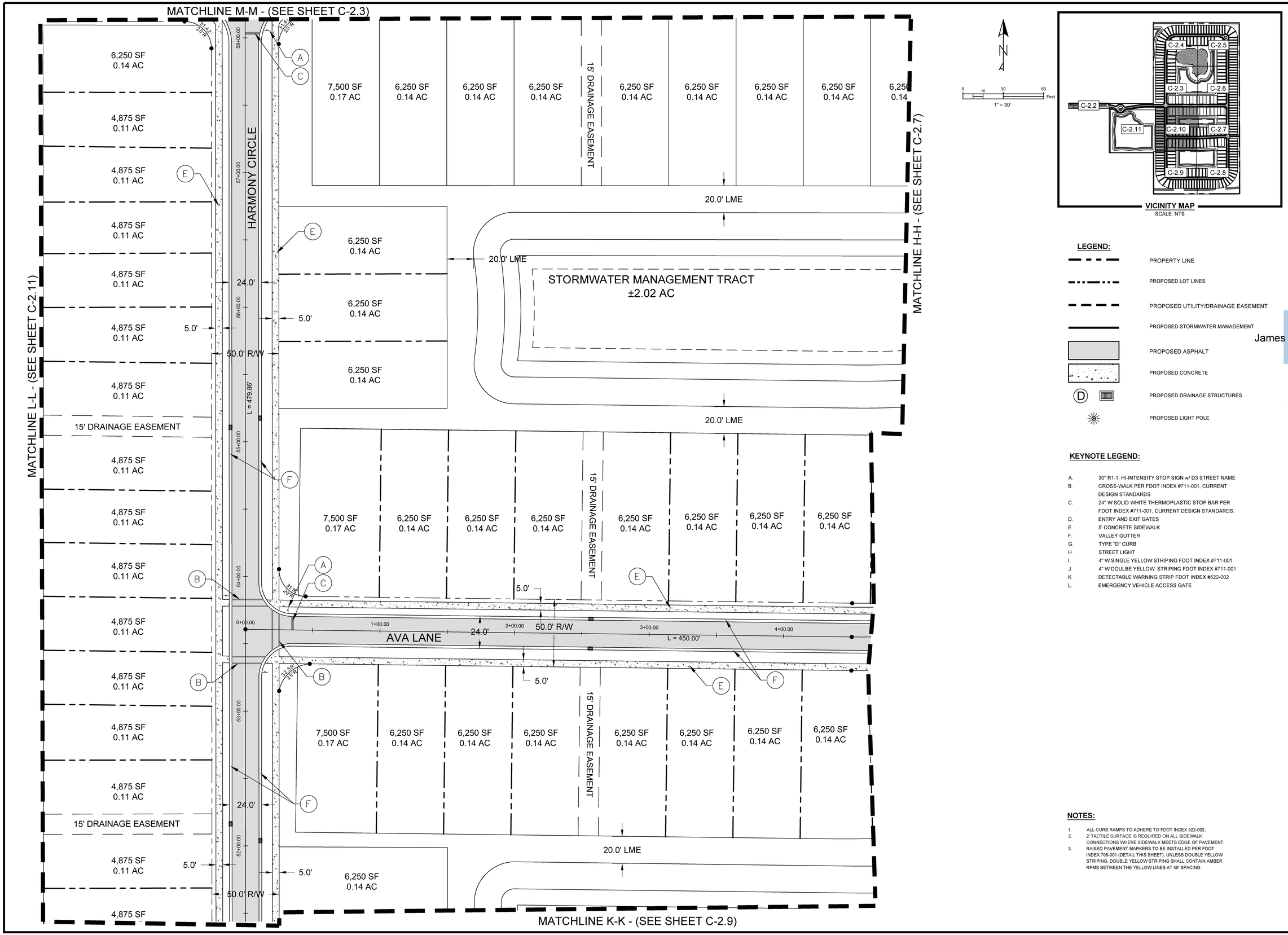

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
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KEYNOTE LEGEND:

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J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

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Date: 2025.05.15 13:06:33-04'00'

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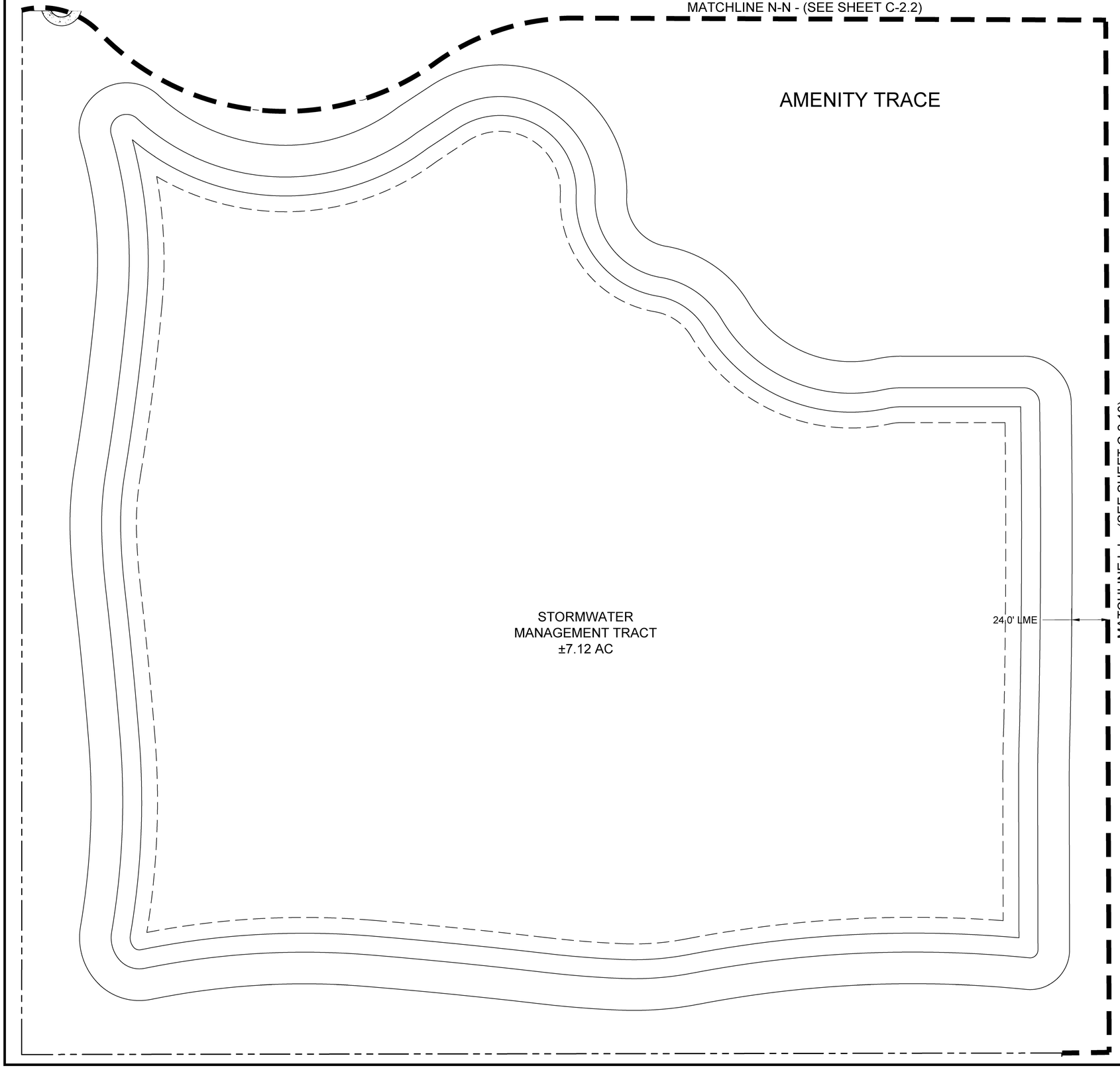
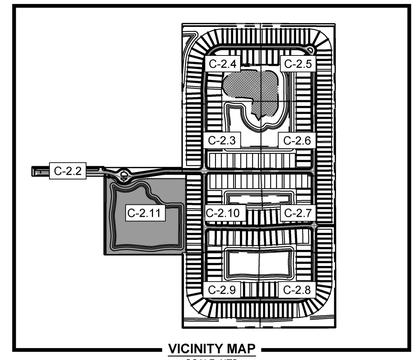
ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981
THIS SHEET: HORIZONTAL CONTROL PLAN
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.10

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\G-3 HORIZONTAL CONTROL PLAN.dwg
DATE: 5/15/2025
TIME: 12:15 PM





VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED LIGHT POLE

KEYNOTE LEGEND:

A. 30" R1-1, HI-INTENSITY STOP SIGN w/ D3 STREET NAME
B. CROSS-WALK PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
C. 24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT INDEX #711-001. CURRENT DESIGN STANDARDS.
D. ENTRY AND EXIT GATES
E. 5' CONCRETE SIDEWALK
F. VALLEY GUTTER
G. TYPE "D" CURB
H. STREET LIGHT
I. 4" W SINGLE YELLOW STRIPING FDOT INDEX #711-001
J. 4" W DOULBE YELLOW STRIPING FDOT INDEX #711-001
K. DETECTABLE WARNING STRIP FDOT INDEX #522-002
L. EMERGENCY VEHICLE ACCESS GATE

NOTES:

1. ALL CURB RAMPS TO ADHERE TO FDOT INDEX 522-002.
2. 2' TACTILE SURFACE IS REQUIRED ON ALL SIDEWALK CONNECTIONS WHERE SIDEWALK MEETS EDGE OF PAVEMENT.
3. RAISED PAVEMENT MARKERS TO BE INSTALLED PER FDOT INDEX 706-001 (DETAIL THIS SHEET), UNLESS DOUBLE YELLOW STRIPING. DOUBLE YELLOW STRIPING SHALL CONTAIN AMBER RPMS BETWEEN THE YELLOW LINES AT 40' SPACING.

Mills, Short & Associates
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C.A. #: 30698
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700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: C=James Mills, E=mailto:jmills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:06:35-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

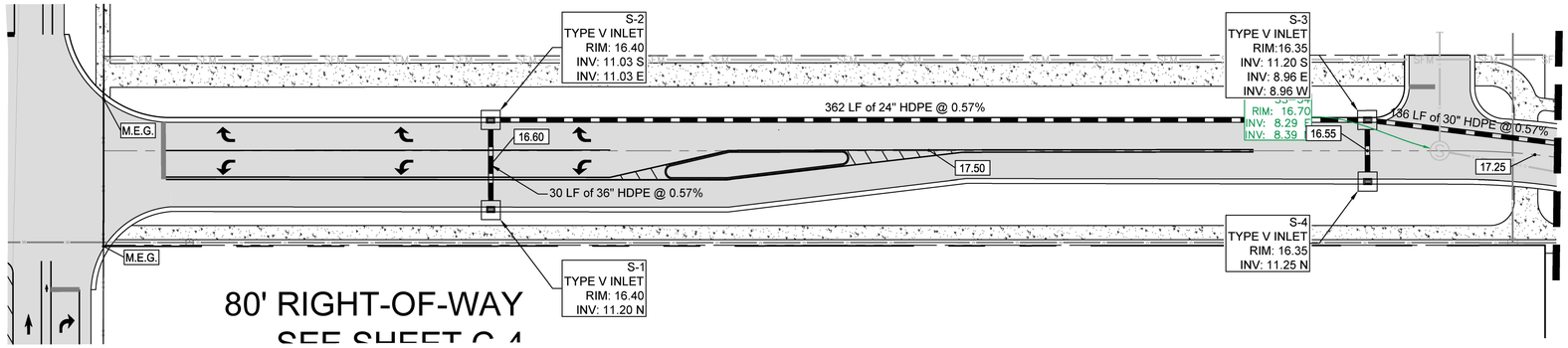
ISSUE	DATE	COMMENTS

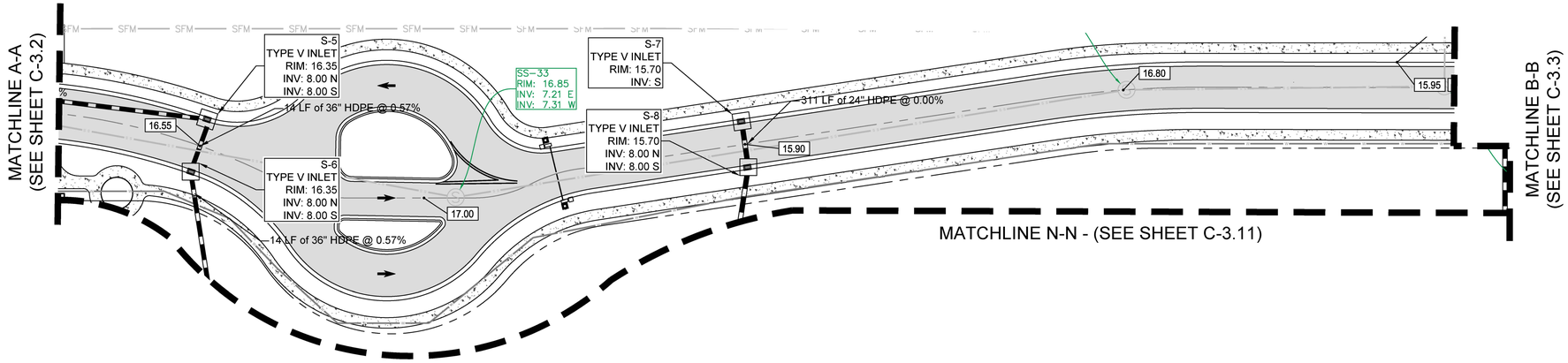
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

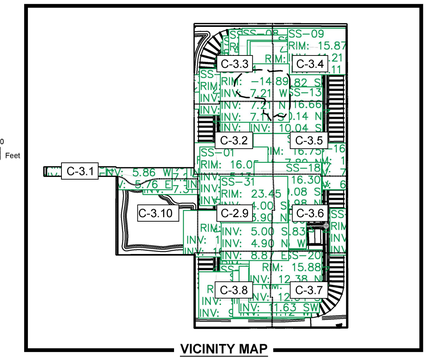
THIS SHEET: HORIZONTAL CONTROL PLAN
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

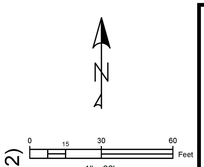
PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-2.11

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg TIME: 12:15 PM DATE: 5/15/2025



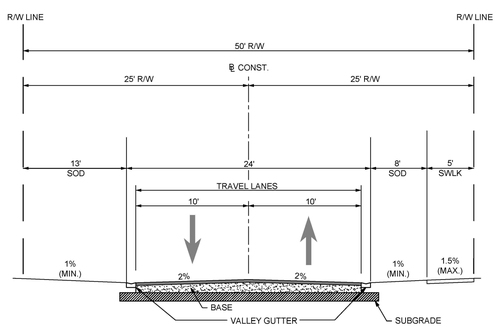




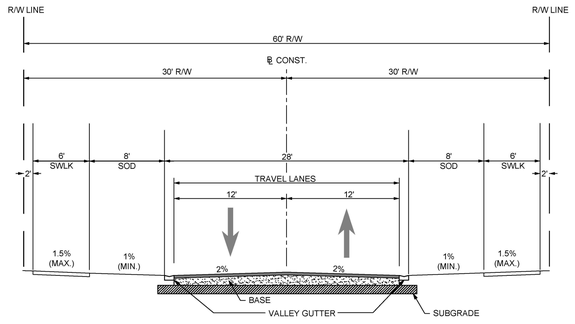


LEGEND:

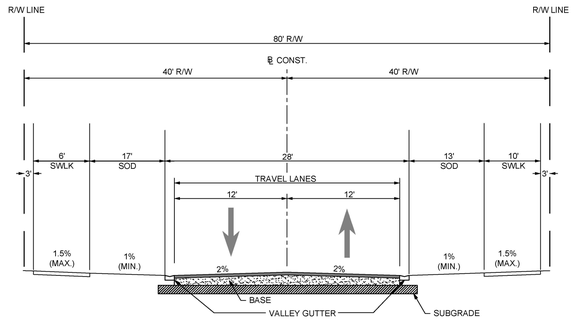
- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED STORMWATER PIPE
- 16.80 PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- 17.00 EXISTING TOPOGRAPHY LINE



LOCAL ROAD, 50' R/W TYPICAL SECTION
N.T.S.



LOCAL ROAD, 60' R/W TYPICAL SECTION
N.T.S.



LOCAL ROAD, 80' R/W TYPICAL SECTION
N.T.S.

DRAINAGE AND GRADING NOTES:

1. ELEVATIONS SHOWN HEREON ARE IN FEET, REFERENCED TO NAVD 88.
2. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS.
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5. CONTRACTOR SHALL REVIEW PROPOSED GRADES TO ENSURE COMPATIBILITY WITH CHANGES IN ELEVATION WITHIN THE PROPOSED PLAN.
6. THE STORM WATER DRAINAGE DESIGN IS INTENDED TO CONTAIN ALL REQUIRED SITE STORM WATER RUNOFF AND DISCHARGE INTO AN APPROVED STORM WATER SYSTEM. CONTRACTOR SHALL NOTIFY ENGINEER, SHOULD THE ADJACENT PROPERTY GRADES VARY FROM THOSE SHOWN ON THE PLAN AND CHANGE THE INTENT OF STORM WATER DESIGN.
7. ONSITE EXCAVATED MATERIAL TO BE USED FOR ONSITE PURPOSES ONLY. IF MATERIAL IS TO BE HAULED OFFSITE, MINING PERMIT MAY BE REQUIRED. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF MATERIAL IS TO BE HAULED OFFSITE.
8. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES.
9. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY.
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13. ALL DISTURBED AREAS ARE TO BE SODDED AND/OR STABILIZED. CONTRACTOR SHALL RE-GRADE RAINFALL WASHOUTS WHERE THEY OCCUR UNTIL ADEQUATE STABILIZATION OCCURS.
14. ALL SLOPES OF LAKE BANKS SHALL BE SODDED WITH FLORATAM

FLOOD ZONE:
THE SUBJECTED PROPERTY IS LOCATED IN FLOOD ZONE "X" PER F.I.R.M. PANEL NO. 1206C0114J, DATED 01/26/2023

Mills, Short & Associates
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PHONE: 772.226.7282
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James Mills
Digitally signed by James Mills
DN: CN=James Mills, E=mailto:jbmills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:06:37-04'00'

JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: PAVING, GRADING & DRAINAGE PLAN
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-3.1

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg
DATE: 5/15/2025
TIME: 12:15 PM

MATCHLINE C-C - (SEE SHEET C-3.4)

17.00 | 18.00 | 18.00 | 17.75 | 17.50 | 17.25 | 17.00 | 17.00 | 17.20 | 17.40 | 17.60 | 17.80 | 18.00

16.50

SS-03
RIM: 16.05
INV: 5.85 N
INV: 5.75 S

17.66 | 18.00 | 18.00 | 17.66 | 17.33 | 17.00 | 17.00 | 17.33 | 17.00

S-11
TYPE V INLET
RIM: 15.25
INV: 8.80 E

S-12
TYPE V INLET
RIM: 15.25
INV: 8.65 E
INV: 8.75 W

201 LF of 24" HDPE @ 0.57%

114 LF of 24" HDPE @ 0.36%

15.45

OUTFALL = 7.50'

STORMWATER
MANAGEMENT TRACT
±4.87 AC

OUTFALL = 7.50'

OUTFALL = 7.50'

4.00
9.00
12.00
15.50

191 LF of 36" HDPE @ 0.57%

MATCHLINE F-F - (SEE SHEET C-3.6)

18.00 | 17.66 | 17.33 | 17.00 | 17.00 | 17.33 | 17.66

SS-02
RIM: 16.68
INV: 2.78 S
INV: 4.09 N
INV: 6.67 E
INV: 2.68 W

S-26
TYPE V INLET
RIM: 15.25
INV: 8.60 N
INV: 8.60 S

S-27
TYPE V INLET
RIM: 15.25
INV: 8.60 N
INV: 8.60 S

MATCHLINE B-B
(SEE SHEET C-3.2)

S-9
TYPE V INLET
RIM: 15.70
INV: 9.60 S

14 LF of 36" HDPE @ 0.00%

14 LF of 36" HDPE @ 0.00%

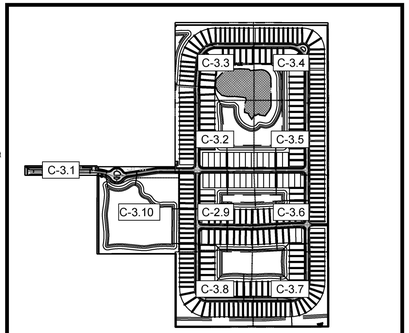
15.95 | 15.75 | 15.90 | 16.70 | 15.45

S-10
TYPE V INLET
RIM: 15.70
INV: 9.55 N
INV: 9.55 S

MATCHLINE M-M - (SEE SHEET C3.10)

N

0 15 30 60 Feet
1" = 30'



VICINITY MAP
SCALE: NTS

LEGEND:

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- PROPOSED STORMWATER MANAGEMENT
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- PROPOSED CONCRETE
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- PROPOSED STORMWATER PIPE
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- EXISTING SPOT ELEVATION
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14. ALL SLOPES OF LAKE BANKS SHALL BE SODDED WITH FLORATAM

FLOOD ZONE:
THE SUBJECTED PROPERTY IS LOCATED IN FLOOD ZONE "X" PER F.I.R.M. PANEL NO. 1206C0114J, DATED 01/26/2023

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
PHONE: 772.226.7282
C.A. #: 30698
700 22nd Place, Suite 2C/2D
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James Mills
Digitally signed by James Mills
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Date: 2025.05.15 13:06:39-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
PAVING, GRADING & DRAINAGE PLAN

DRAWN BY DCC
CHECKED BY JWM
APPROVED BY JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-3.1

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg
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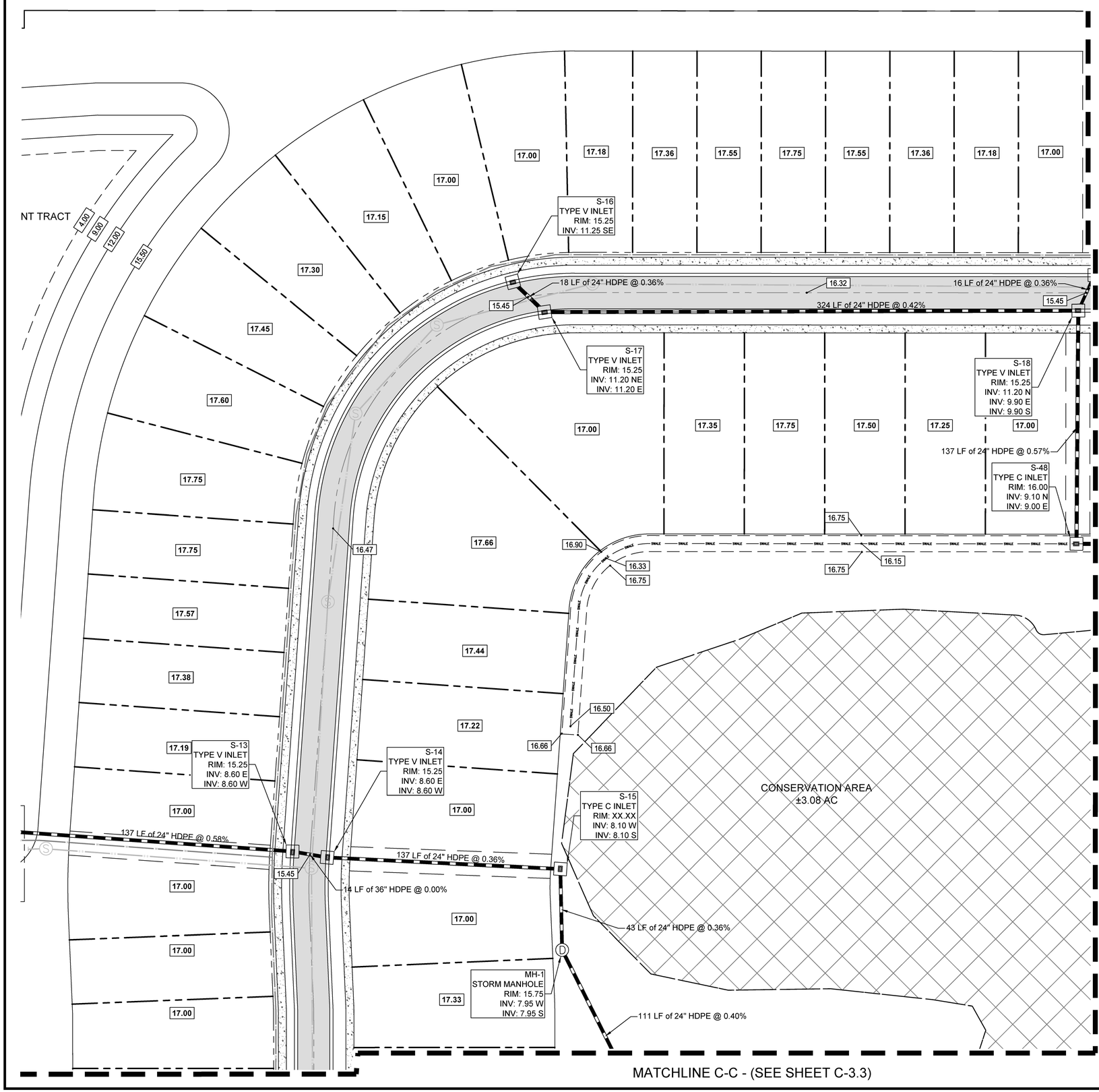

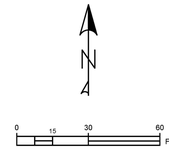

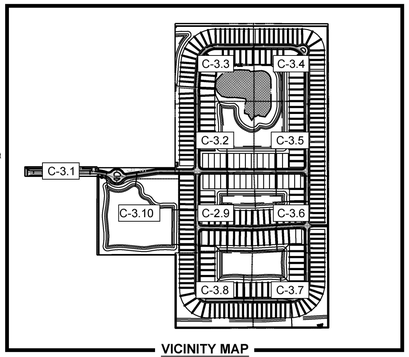

VICINITY MAP
SCALE: NTS

LEGEND:

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- 16.80 PROPOSED SPOT ELEVATION
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FLOOD ZONE:
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James Mills
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DN: CN=James Mills, E=mailto:jmills@millsshortassociates.com, OU=James, SN=Mills, C=US
Date: 2025.05.15 13:08:41-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
PAVING, GRADING & DRAINAGE PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-3.2

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg
DATE: 5/15/2025
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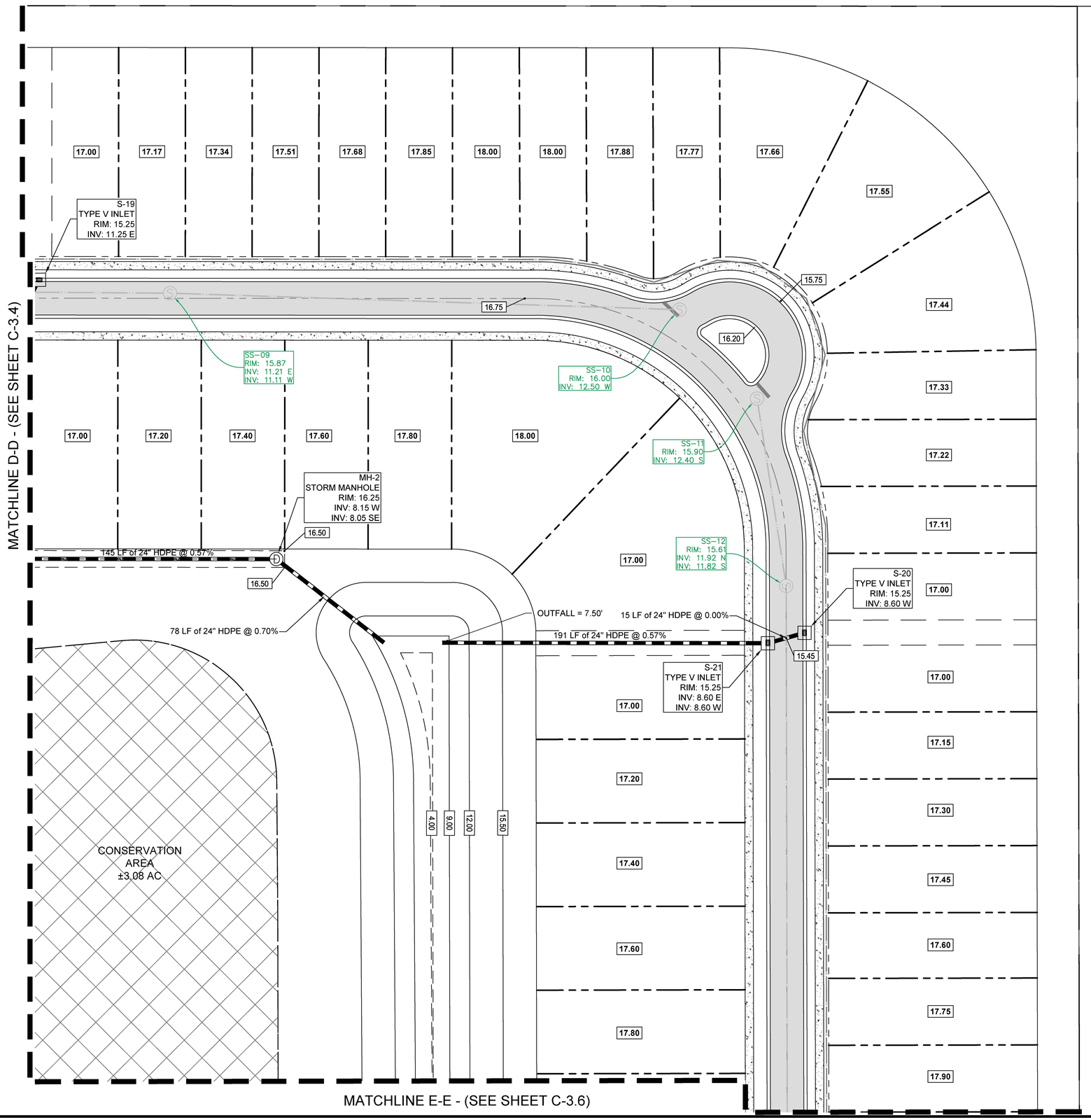

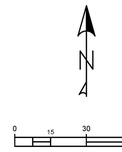

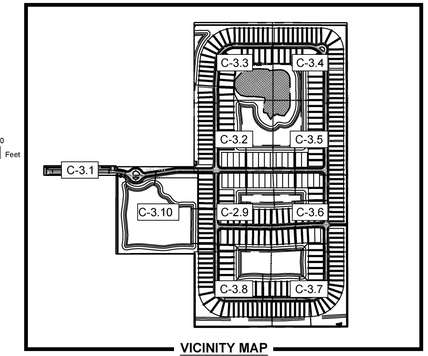

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
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FLOOD ZONE:
THE SUBJECTED PROPERTY IS LOCATED IN FLOOD ZONE "X" PER F.I.R.M. PANEL NO. 1206C0114J, DATED 01/26/2023

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
PHONE: 772.226.7282
C.A. #: 30698
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: CN=James Mills, E=mailto:jmills@millsshortassociates.com, OU=James, SN=Mills, C=US
Date: 2025.05.15 13:08:43-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

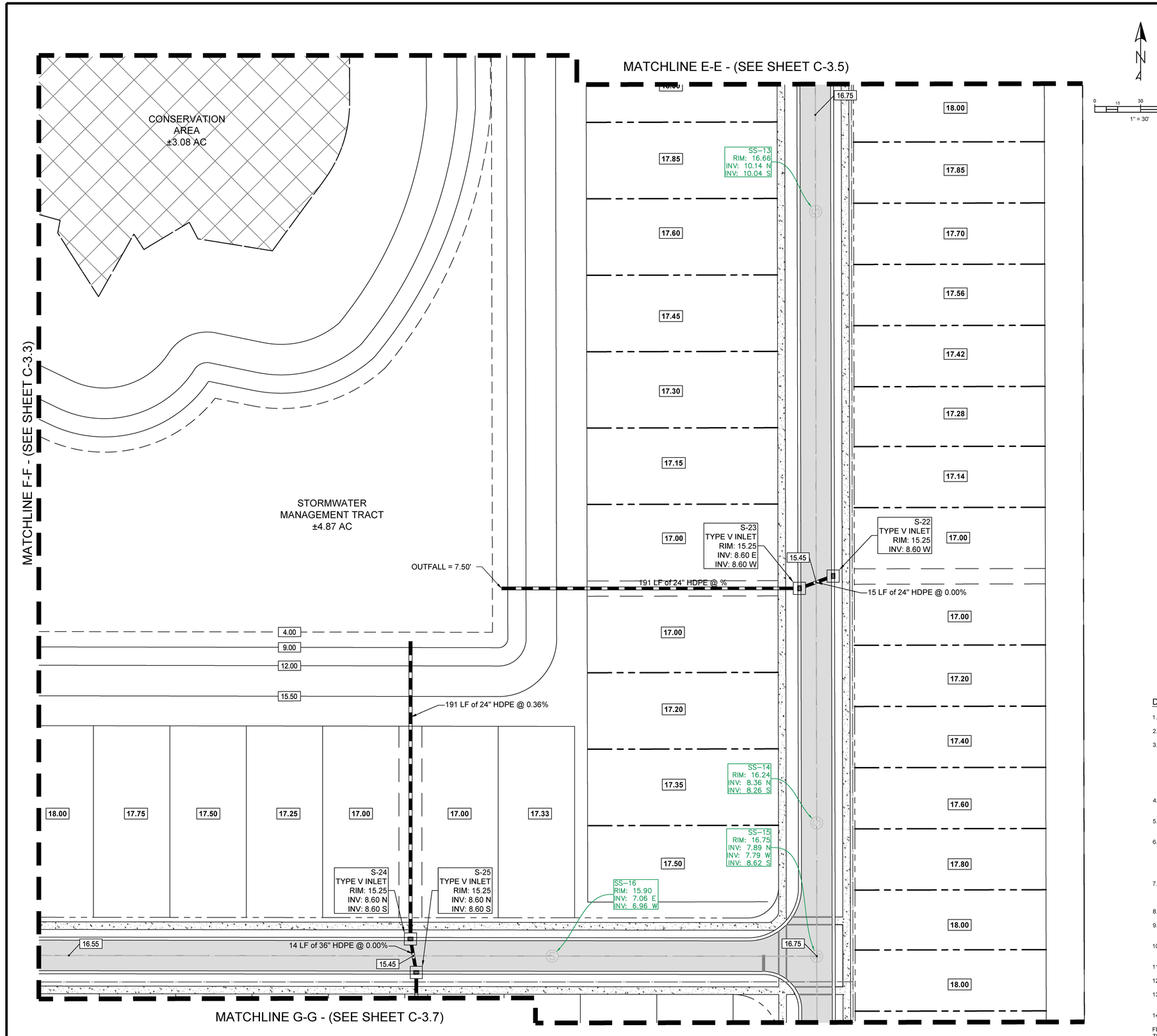
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

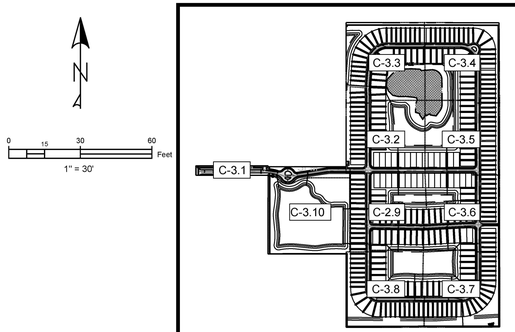
THIS SHEET: PAVING, GRADING & DRAINAGE PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-3.3

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg DATE: 5/15/2025 TIME: 12:15 PM





VICINITY MAP
SCALE: NTS

0 15 30 60 Feet
1" = 30'

LEGEND:

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James Mills
Digitally signed by James Mills
DN: CN=James Mills, E=mills@millsshortassociates.com, OU=James, SN=Mills, C=US
Date: 2025.05.15 13:08:45-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

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DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-3.4

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg
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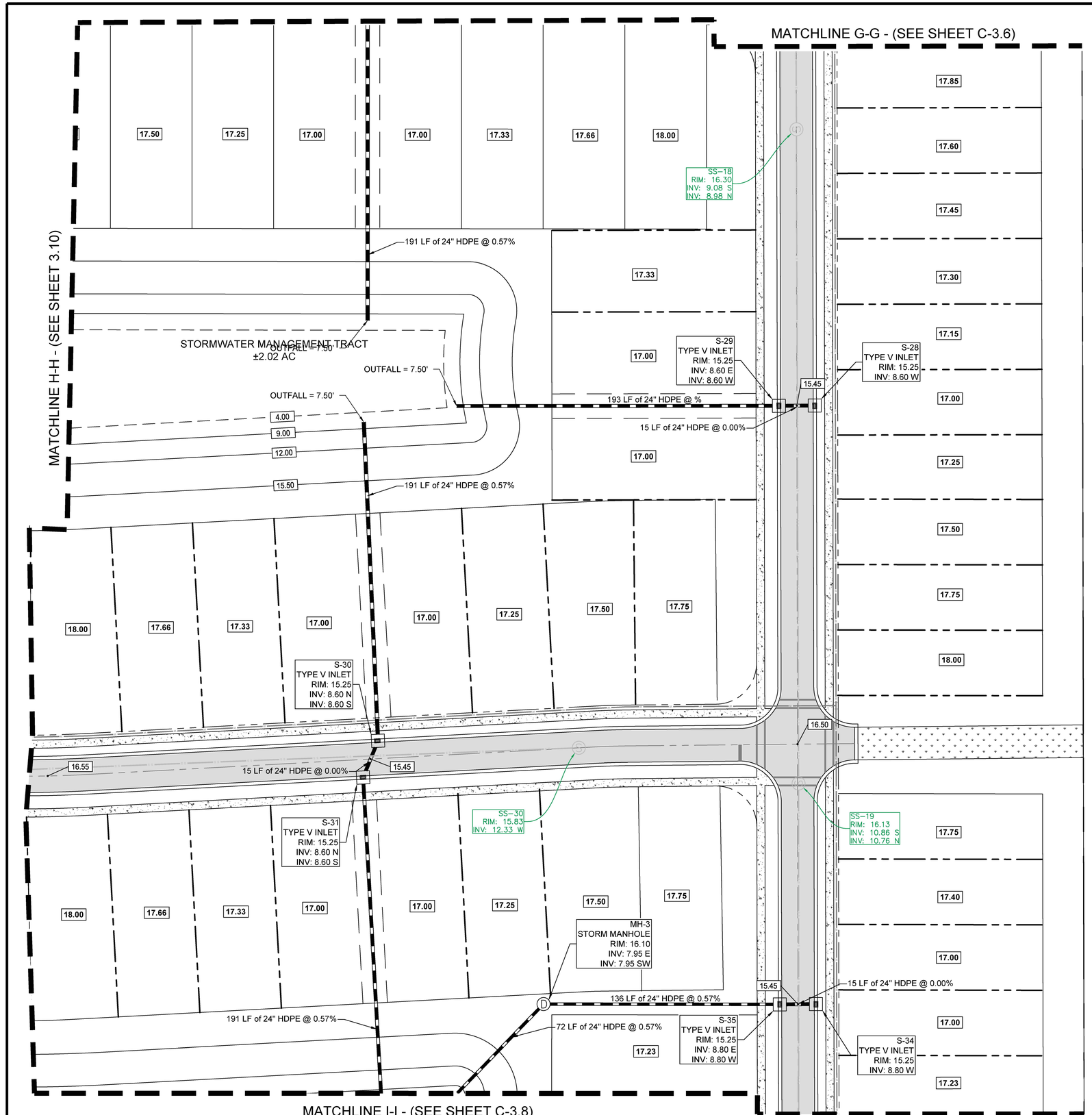

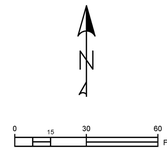

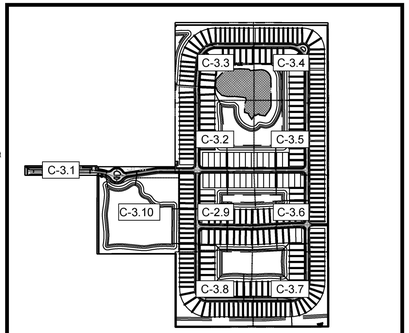

VICINITY MAP
SCALE: NTS

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JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: PAVING, GRADING, & DRAINAGE PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-3.5

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg
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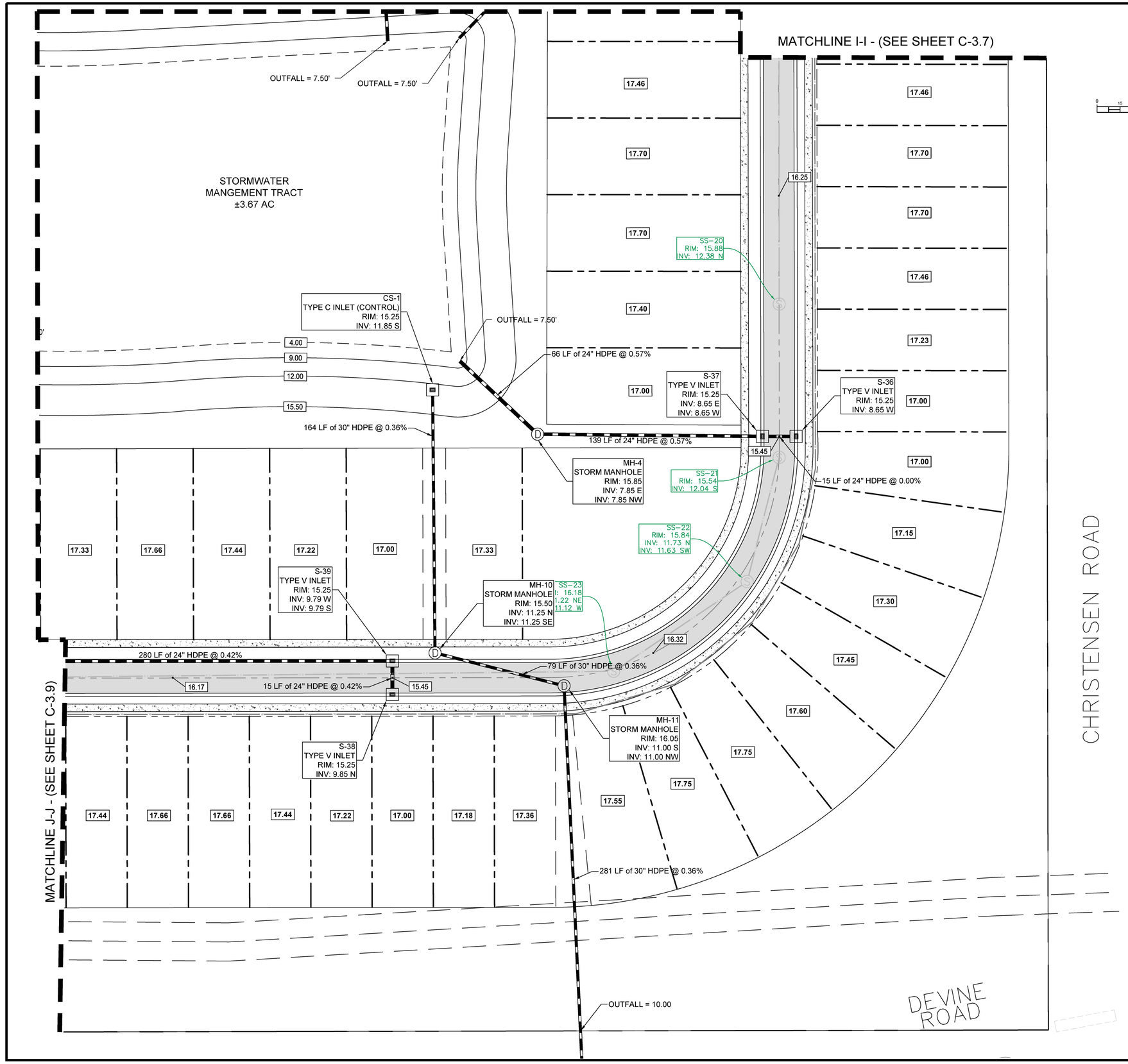

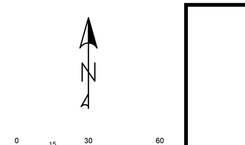

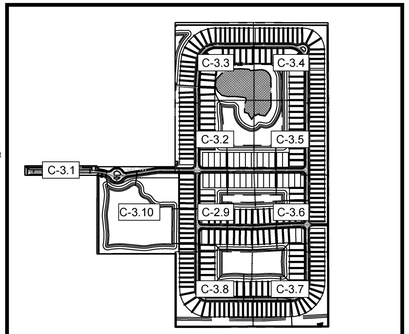

VICINITY MAP
SCALE: NTS

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JAMES W. MILLS
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ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
PAVING, GRADING & DRAINAGE PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-3.6

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-2 OVERALL GRADING AND DRAINAGE PLAN.dwg
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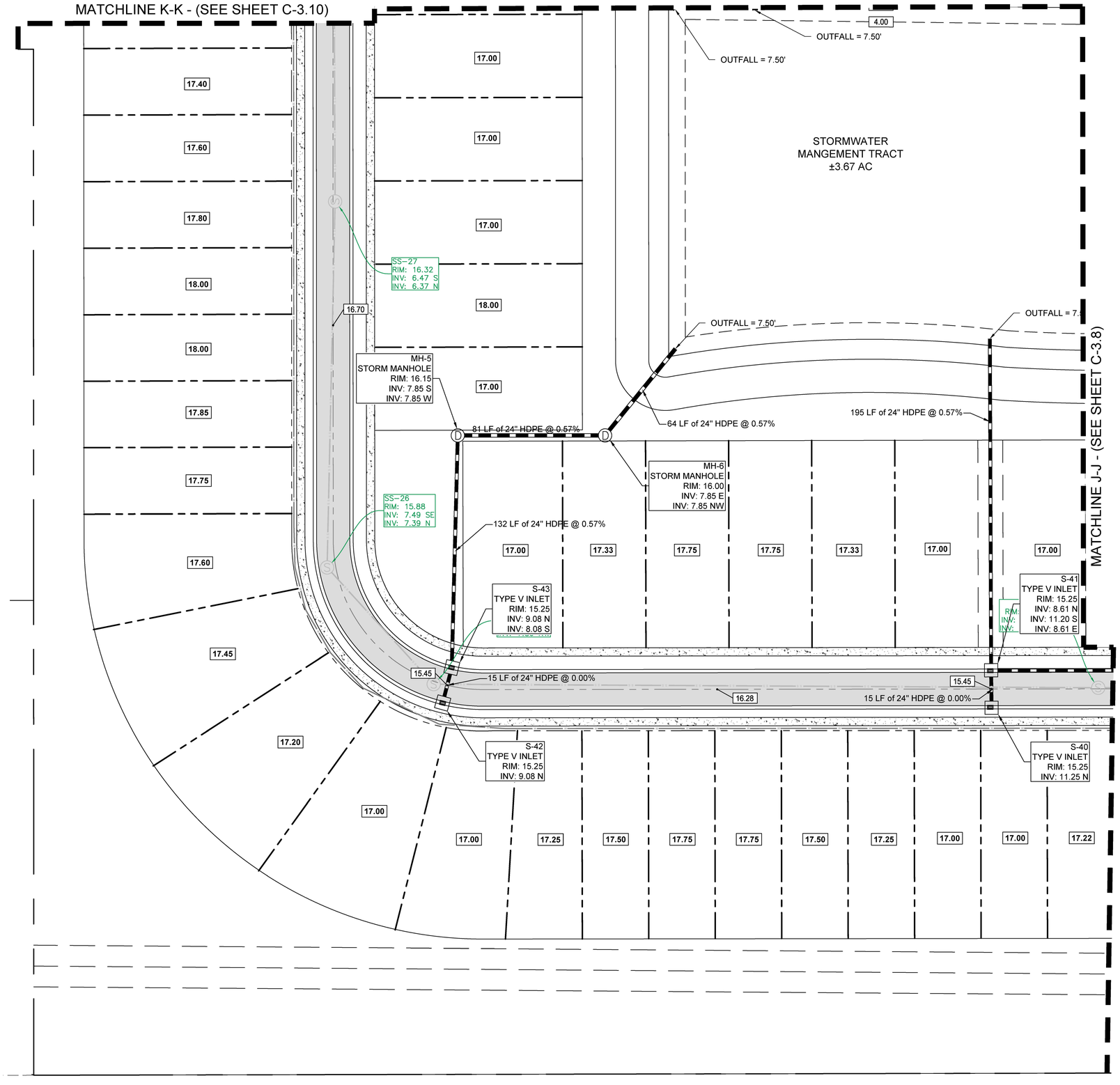

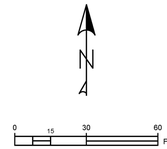

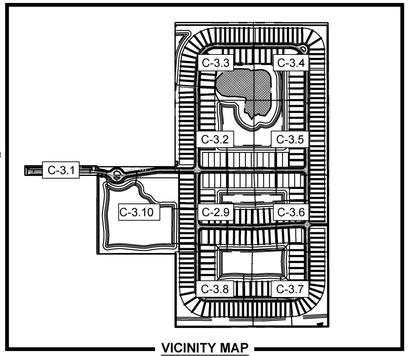

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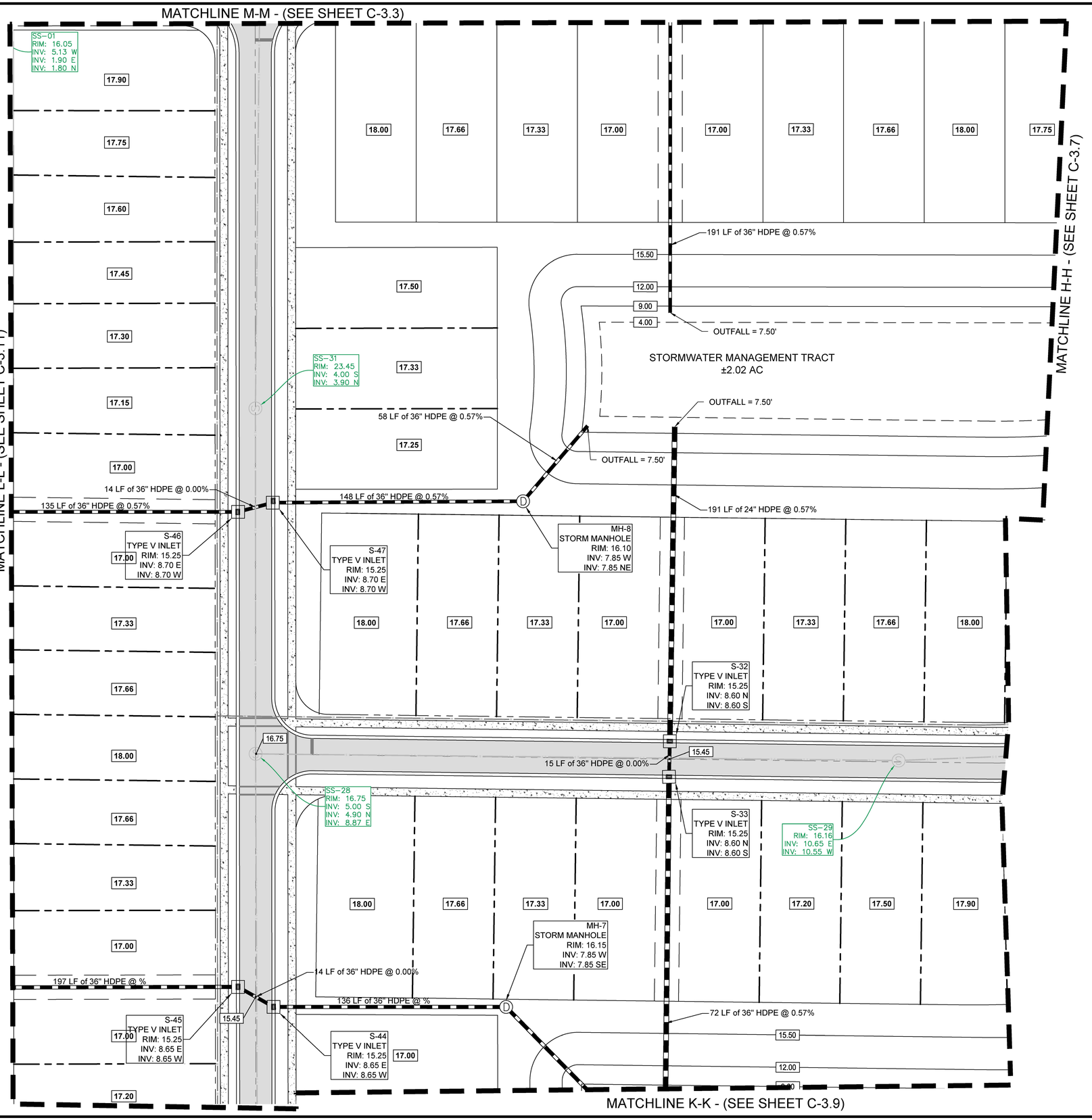

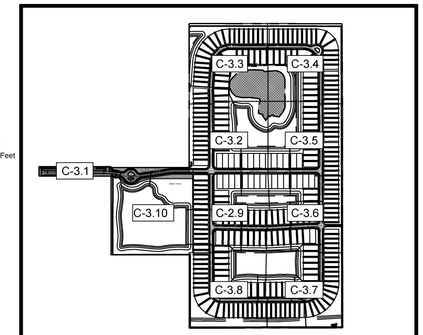

VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED STORMWATER PIPE
- 16.80 PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- 17.00 EXISTING TOPOGRAPHY LINE

DRAINAGE AND GRADING NOTES:

1. ELEVATIONS SHOWN HEREON ARE IN FEET, REFERENCED TO NAVD 88.
2. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE RECORDS OF ST. LUCIE COUNTY AND THE VARIOUS APPLICABLE UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES TO REQUEST EXACT FIELD LOCATION OF UTILITIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. ANY CONDITIONS NOT ALLOWING WATER TO FLOW AS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR RESOLUTION.
5. CONTRACTOR SHALL REVIEW PROPOSED GRADES TO ENSURE COMPATIBILITY WITH CHANGES IN ELEVATION WITHIN THE PROPOSED PLAN.
6. THE STORM WATER DRAINAGE DESIGN IS INTENDED TO CONTAIN ALL REQUIRED SITE STORM WATER RUNOFF AND DISCHARGE INTO AN APPROVED STORM WATER SYSTEM. CONTRACTOR SHALL NOTIFY ENGINEER, SHOULD THE ADJACENT PROPERTY GRADES VARY FROM THOSE SHOWN ON THE PLAN AND CHANGE THE INTENT OF STORM WATER DESIGN.
7. ONSITE EXCAVATED MATERIAL TO BE USED FOR ONSITE PURPOSES ONLY. IF MATERIAL IS TO BE HAULED OFFSITE, MINING PERMIT MAY BE REQUIRED. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF MATERIAL IS TO BE HAULED OFFSITE.
8. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES.
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12. ALL CUT OR FILL SLOPES SHALL BE 4H:1V OR FLATTER UNLESS OTHERWISE NOTED.
13. ALL DISTURBED AREAS ARE TO BE SODDED AND/OR STABILIZED. CONTRACTOR SHALL RE-GRADE RAINFALL WASHOUTS WHERE THEY OCCUR UNTIL ADEQUATE STABILIZATION OCCURS.
14. ALL SLOPES OF LAKE BANKS SHALL BE SODDED WITH FLORATAM

FLOOD ZONE:
THE SUBJECTED PROPERTY IS LOCATED IN FLOOD ZONE "X" PER F.I.R.M. PANEL NO. 1206C0114J, DATED 01/26/2023

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
PHONE: 772.226.7282
C.A. #: 30698
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: C=vJames Mills, E=mills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:08:53-04'00'

JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: PAVING, GRADING & DRAINAGE PLAN
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-3.8

05/15/2025

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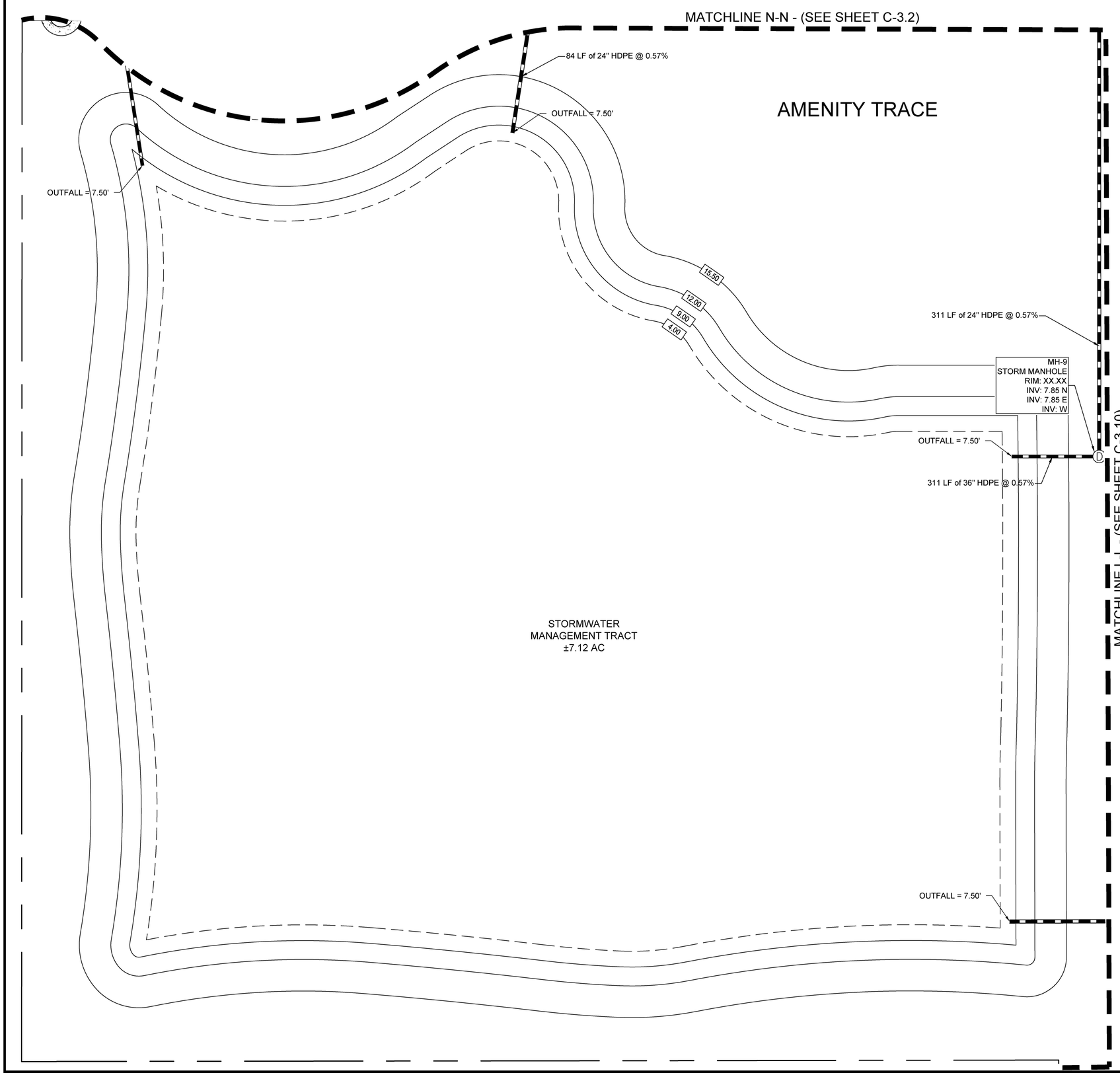



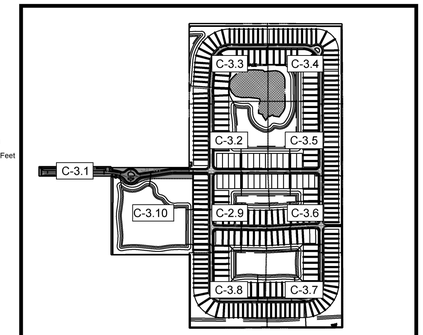

VICINITY MAP
SCALE: NTS

LEGEND:

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- PROPOSED LOT LINES
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James Mills
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Date: 2025.05.15 13:08:55-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: PAVING, GRADING & DRAINAGE PLAN

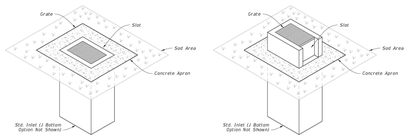
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-3.9

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-3 PAVING, GRADING, AND DRAINAGE DETAILS.dwg
DATE: 5/15/2025
TIME: 12:16 PM

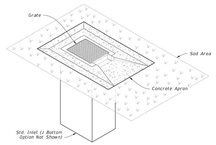
GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. Chamfer all exposed edges and corners ¾" chamfer or tooled to ¾" radius.
3. All reinforcing is Grade 60 bars with 2" minimum cover unless otherwise noted. Cut or bend bars for 1½" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.
4. Use Concrete Apron on inlets without slots and inlets with non-traversable slots only when called for in the Plans.
5. Quantities are for informational and estimating purposes only.



DITCH BOTTOM INLET TYPE C
TRAVERSABLE
(Without Slot - Type D, E, and H Similar, Pipe Connection Not Shown)

DITCH BOTTOM INLET TYPE C
NON-TRAVERSABLE
(Slot > 7" Shown - Type D, E, and H Similar, Pipe Connection Not Shown)



DITCH BOTTOM INLET TYPE C
TRAVERSABLE
(Single Slot < 7" Shown, Double Slot, Type D, and E Similar, Pipe Connection Not Shown)

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Type C – Dimensional, Reinforcing, and Grate Details
3	Type D – Dimensional, Reinforcing, and Grate Details
4	Type E – Dimensional, Reinforcing, and Grate Details
5	Type H (E & J Grate) – Dimensional, Reinforcing, and Steel Grate Details
6	Type H (K Grate) – Dimensional, Reinforcing, and Steel Grate Details
7	Cast Iron Grate Details
8	Non-Traversable Inlet Details
9	Traversable Inlet Without Slot Details
10	Traversable Inlet With Slot Details
11	Case 1 – Add Traversable Slots to Existing Inlets
12	Case 2 – Add Traversable Slots (Partial) to Existing Inlets
13	Case 3 – Add Traversable Slots (Partial) to Existing Inlets and Ditch Block
14	Alternate A Structure Bottom – Top Slab Details

LAST REVISION	CODE	DESCRIPTION:
11/01/20		

FDOT FY 2021-22 STANDARD PLANS | DITCH BOTTOM INLET TYPE C, D, E, AND H | INDEX 425-052 | SHEET 1 of 14

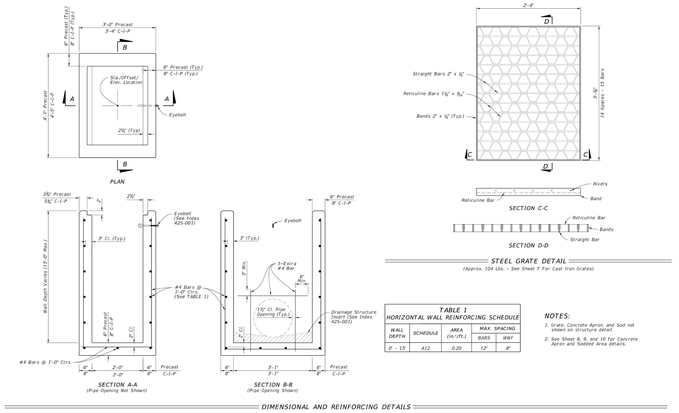


TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in²/ft.)	MAX. SPACING BARS	MAX. SPACING WAY
0' - 15'	A12	0.20	12"	8"

NOTES:
1. Grate, Concrete Apron, and Sod not shown on structure detail.
2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.

DIMENSIONAL AND REINFORCING DETAILS

TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION	CODE	DESCRIPTION:
11/01/20		

FDOT FY 2021-22 STANDARD PLANS | DITCH BOTTOM INLET TYPE C, D, E, AND H | INDEX 425-052 | SHEET 2 of 14

RECOMMENDED MINIMUM TRENCH WIDTHS



PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	HEAVY CONSTRUCTION (75T AXLE LAOD) *
12" - 48" (300mm - 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

MAXIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS:

PIPE DIAM.	CLASS I COMPACTED	CLASS I DUMPED	CLASS II 95%	CLASS II 90%	CLASS III 95%
4" (100mm)	37 (11.3m)	18 (5.5m)	25 (7.6m)	18 (5.5m)	18 (5.5m)
6" (150mm)	44 (13.4m)	20 (6.1m)	29 (8.8m)	20 (6.1m)	21 (6.4m)
8" (200mm)	32 (9.8m)	15 (4.6m)	22 (6.7m)	15 (4.6m)	16 (4.9m)
10" (250mm)	38 (11.6m)	18 (5.5m)	26 (7.9m)	18 (5.5m)	18 (5.5m)
12" (300mm)	35 (10.7m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
15" (375mm)	38 (11.6m)	17 (5.2m)	25 (7.6m)	17 (5.2m)	18 (5.5m)
18" (450mm)	36 (11.0m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
24" (600mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
30" (750mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
36" (900mm)	26 (7.9m)	12 (3.7m)	18 (5.5m)	13 (4.0m)	13 (4.0m)
42" (1050mm)	23 (7.0m)	11 (3.4m)	16 (4.9m)	11 (3.4m)	11 (3.4m)
48" (1200mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)
60" (1500mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE,
UNIT WEIGHT OF SOIL (γs) = 120 PCF

REV	DESCRIPTION	BY	MM/DD/YY	CHKD
6	INITIAL BACKFILL	JAB	04/02/20	

© 2020 ADS, INC.
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)

DRAWING NUMBER: STD-101

4640 TRUEMAN BLVD
HILLIARD, OHIO 43026
ADVANCED DRAINAGE SYSTEMS, INC.

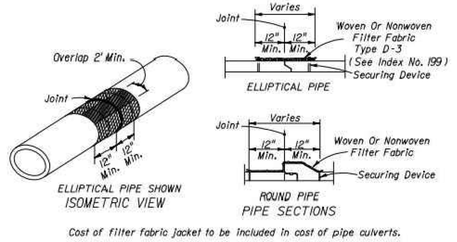
DATE 12-09-16
SIZE ARCH D
SCALE NTS
SHEET 1 OF 1

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

SINGLE AND MULTIPLE CONCRETE PIPE

LAST REVISION	CODE	DESCRIPTION:
11/01/19		

FDOT FY 2023-24 STANDARD PLANS | CROSS DRAIN MITERED END SECTION | INDEX 430-021 | SHEET 2 of 6



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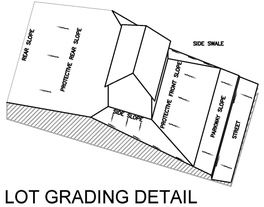
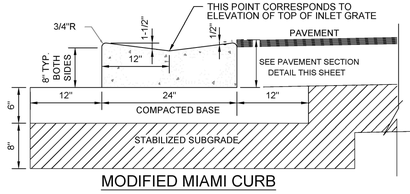


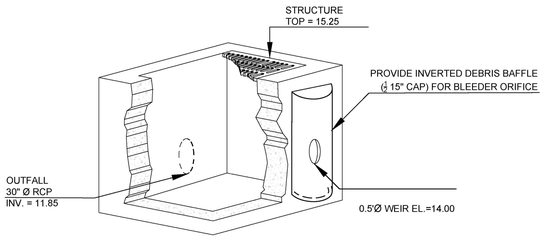
LOT GRADING DETAIL
N.T.S.
(DRAINAGE TO BOTH STREET AND REAR LOT LINE)
ALL LOTS

NOTES
1. ALL SLOPES GREATER THAN 1:6 SHALL BE SODDED.
2. ROOF RUNOFF FROM SIDES AND REAR OF HOUSES SHALL BE DIRECTED TOWARD SIDE AND REAR YARD SWALES ACCORDINGLY.
3. YARD GRADING MUST BE IN CONFORMANCE WITH FBC.
4. MIN. FINISHED FLOOR MUST BE 18" ABOVE CROWN OF ROAD.
5. FINISHED FLOOR ELEV. TO BE APPROVED THROUGH BLDG PERMIT PLOT PLANS.



NOTE:
CONTROL CUTS @ 10' O.C. 3/4" DEEP MINIMUM WITHIN 48 HOURS OF POURING.

MODIFIED MIAMI CURB
SCALE: N.T.S.



CS-1 CONTROL STRUCTURE
(MODIFIED FDOT TYPE 'C' INLET)
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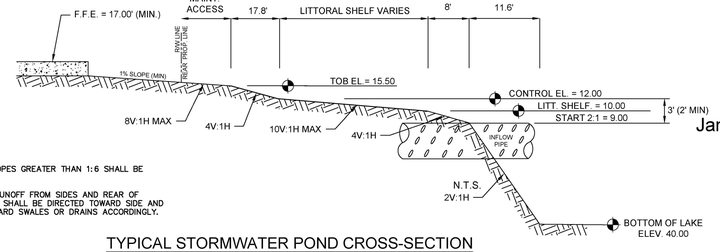

NOTES
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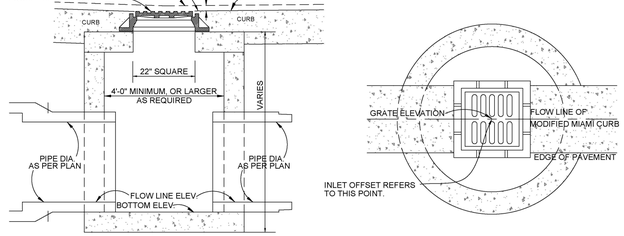
2. ROOF RUNOFF FROM SIDES AND REAR OF HOUSES SHALL BE DIRECTED TOWARD SIDE AND REAR YARD SWALES OR DRAINS ACCORDINGLY.

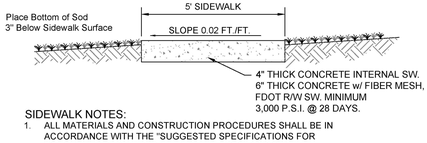
TYPICAL STORMWATER POND CROSS-SECTION
SCALE: N.T.S.



ELEVATION | TOP VIEW

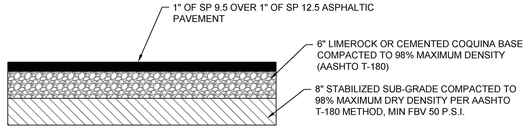
NOTE:
1. FOR JUNCTION BOX USE STANDARD STRUCTURE BOTTOM AND TOP SLAB "TYPE P" OR "TYPE J", IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX No. 200.

TYPICAL MODIFIED MIAMI CURB INLET
SCALE: N.T.S.

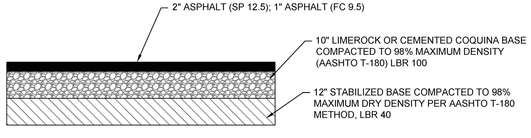


SIDEWALK NOTES:
1. ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH THE "SUGGESTED SPECIFICATIONS FOR CONCRETE AREAS" PREPARED BY THE PORTLAND CEMENT ASSOCIATION.
2. CONTROL JOINTS SHALL BE CONSTRUCTED AT A MAXIMUM OF 8-FEET.
3. AT LEAST THREE (3) COMPRESSIVE STRENGTH CYLINDER SAMPLES SHALL BE TAKEN FOR EACH 10,000 SQUARE FEET OF PAVEMENT OR FIVE (5) PER JOB, WHICHEVER IS GREATER. SLUMP SHALL BE 2 TO 4 INCHES (AASHTO T-119). COMPRESSIVE STRENGTH SHALL BE REPORTED AT 7, 14, AND 28 DAYS.
4. CONSTRUCT UPON FIRM, STABILIZED GROUND, COMPACTED TO 95% MAXIMUM DRY DENSITY.
5. SURFACE WITH BROOM FINISH.

SIDEWALK DETAIL
N.T.S.



ASPHALT PAVEMENT - PRIVATE R/W
SCALE: N.T.S.



CITY ASPHALT PAVEMENT
SCALE: N.T.S.

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700 22nd Place, Suite 2C/2D
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Date: 2025.05.15 13:06:57-04'00'

James Mills

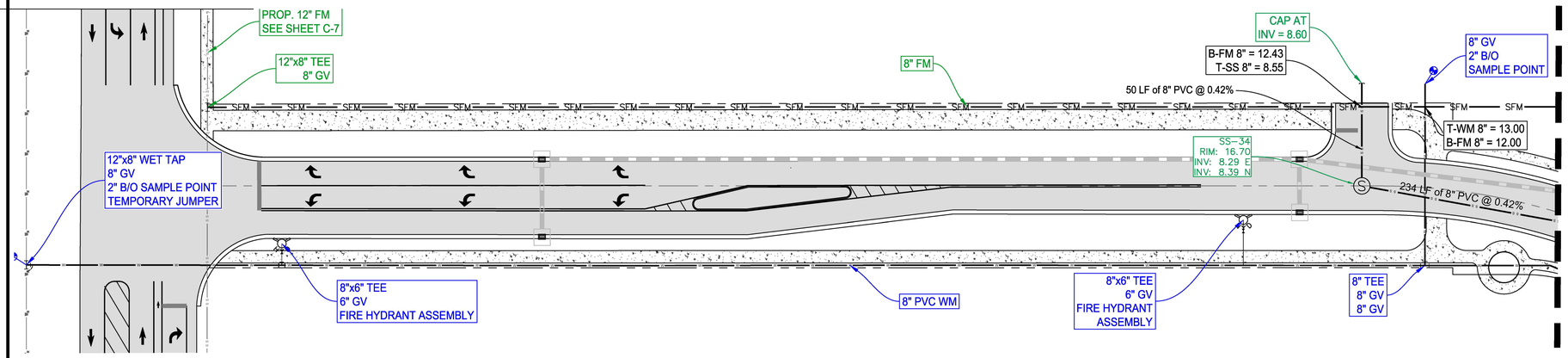
JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

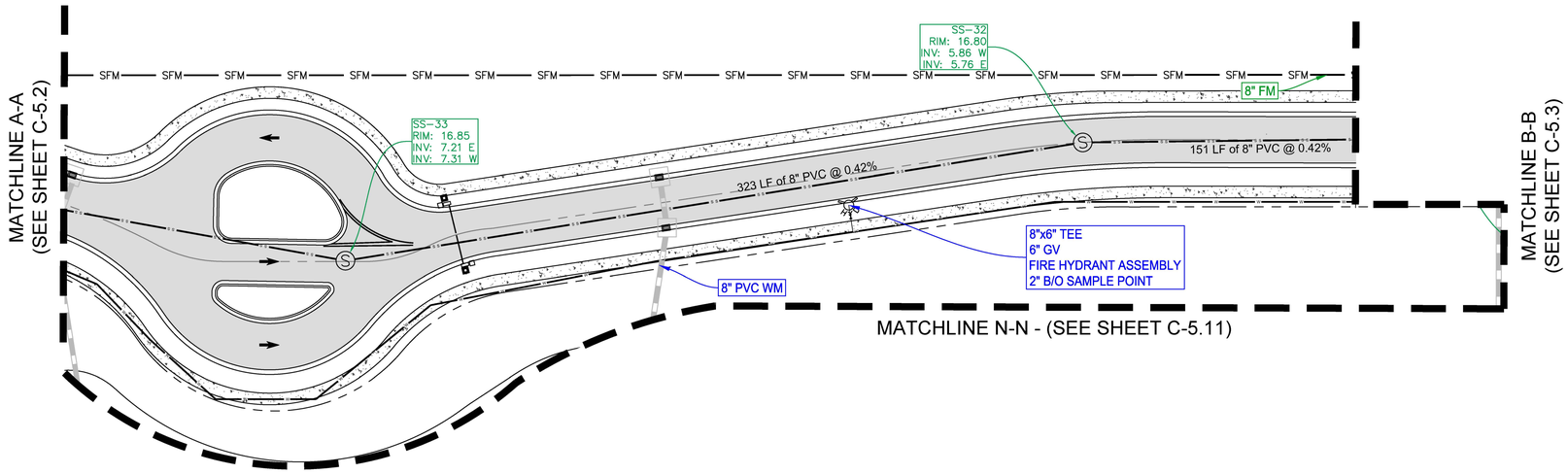
ISSUE	DATE	COMMENTS

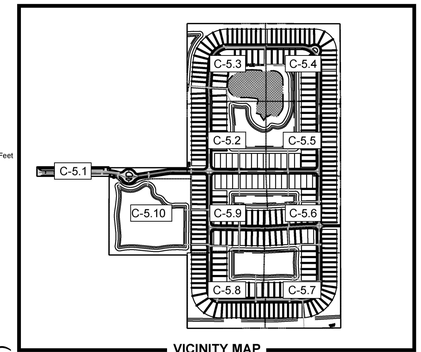
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981
THIS SHEET: PAVING, GRADING, & DRAINAGE DETAILS
DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.
C-4.1

TIME: 12:16 PM
DATE: 5/15/2025
FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-4 UTILITY PLAN.dwg







VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- S S — PROPOSED SANITARY SEWER MAIN
- W — PROPOSED WATER MAIN
- SFM — PROPOSED SANITARY FORCE MAIN
- SFM — EXISTING CoFP SANITARY FORCE MAIN
- W_x — EXISTING CoFP WATERMAIN MAIN

FDEP UTILITY NOTES:

1. VERTICAL CROSSINGS
SANITARY SEWER SYSTEMS AND/OR RECLAIMED WATER MAINS SHALL CROSS UNDER POTABLE WATER MAINS WHENEVER PHYSICALLY POSSIBLE. SANITARY SEWER SYSTEMS AND/OR RECLAIMED WATER MAINS CROSSING BELOW POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A PREFERRED VERTICAL SEPARATION DISTANCE OF 12 INCHES (MINIMUM 6" FOR GRAVITY/RECLAIMED MAIN) BETWEEN THE INVERT OF THE POTABLE WATER MAIN AND THE CROWN OF THE LOWER PIPE.

2. HORIZONTAL SEPARATIONS
WHEREVER IT IS PHYSICALLY POSSIBLE:

SANITARY SEWER SYSTEMS REQUIRE A PREFERRED 10-FOOT HORIZONTAL SEPARATION DISTANCE (MINIMUM 6-FOOT) OUTSIDE TO OUTSIDE OF PIPE BETWEEN ANY POTABLE WATER MAIN PARALLEL INSTALLATIONS.

RECLAIMED WATER MAINS REQUIRE A MINIMUM OF A 3 FOOT OUTSIDE TO OUTSIDE OF PIPE HORIZONTAL SEPARATION DISTANCE BETWEEN ANY POTABLE WATER MAIN AND/OR A SANITARY SEWER SYSTEM PARALLEL INSTALLATIONS.

WHEREVER EITHER ARE NOT PHYSICALLY POSSIBLE, THEN THE POTABLE WATER MAIN SHALL BE LAID AT THE MAXIMUM PHYSICAL HORIZONTAL SEPARATION DISTANCE POSSIBLE, AND EITHER LAID:
A.) IN A SEPARATE TRENCH;
B.) ON AN UNDISTURBED EARTH SHELF; AND CONFORMING TO THE MINIMUM VERTICAL CROSSINGS IN PARAGRAPH 1).

3. CONFLICTS
WHEREVER IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM STANDARDS IN 1.) AND 2.), THEN ALL PIPING MATERIAL SHALL BE DUCTILE IRON PIPE (DIP). ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN AND SITE CONDITIONS. ADDITIONALLY, THE POTABLE WATER MAIN SHALL HAVE A FULL JOINT CENTERED ON THE CONFLICT AND MECHANICALLY RESTRAINED. AN ABSOLUTE MINIMUM VERTICAL SEPARATION DISTANCE OF 6 INCHES SHALL BE PROVIDED BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.

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PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: UTILITY PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-5.1

MATCHLINE C-C - (SEE SHEET C-5.4)

MATCHLINE F-F - (SEE SHEET C-5.6)

MATCHLINE B-B
(SEE SHEET C-5.2)

MATCHLINE M-M - (SEE SHEET C5.10)

301 LF of 8" PVC @

SS-03
RIM: 16.05
INV: 5.85 N
INV: 5.75 S

396 LF of 8" PVC @ 0.42%

8" PVC WM

(2) 8" 45° BENDS

SFM — SFM

B-WM 8" = 12.81
T-SS 8" = 3.33

B-FM 8" = 12.43
T-SS 8" = 1.70

B-WM 8" = 12.81
T-SS 8" = 3.43

SS-02
RIM: 16.68
INV: 2.78 S
INV: 4.09 N
INV: 6.67 E
INV: 2.68 W

SS-17
RIM: 16.05
INV: 8.34 E
INV: 8.24 W

186 LF of 8" PVC @ 0.42%

300 LF of 8" PVC @ 0.42%

SS-01
RIM: 16.05
INV: 5.13 W
INV: 1.90 E
INV: 1.80 N

8" TEE
8" GV
8" GV

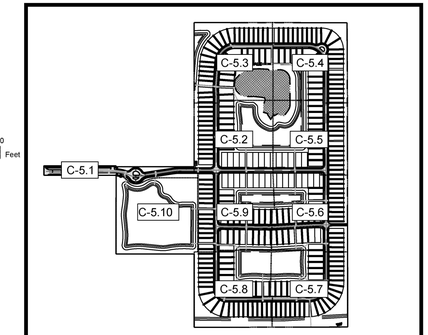
8" TEE
8" GV
8" GV

8"x6" TEE
6" GV
FIRE HYDRANT ASSEMBLY
2" B/O SAMPLE POINT

8" PVC WM

N

0 15 30 60 Feet
1" = 30'



VICINITY MAP
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SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981
THIS SHEET
UTILITY PLAN

DRAWN BY	CHECKED BY	APPROVED BY	SCALE
DCC	JWM	JWM	SEE SHEET

PROJ. NO.	24-1600
DATE	10-02-2024
SHEET NO.	C-5.2

05/15/2025

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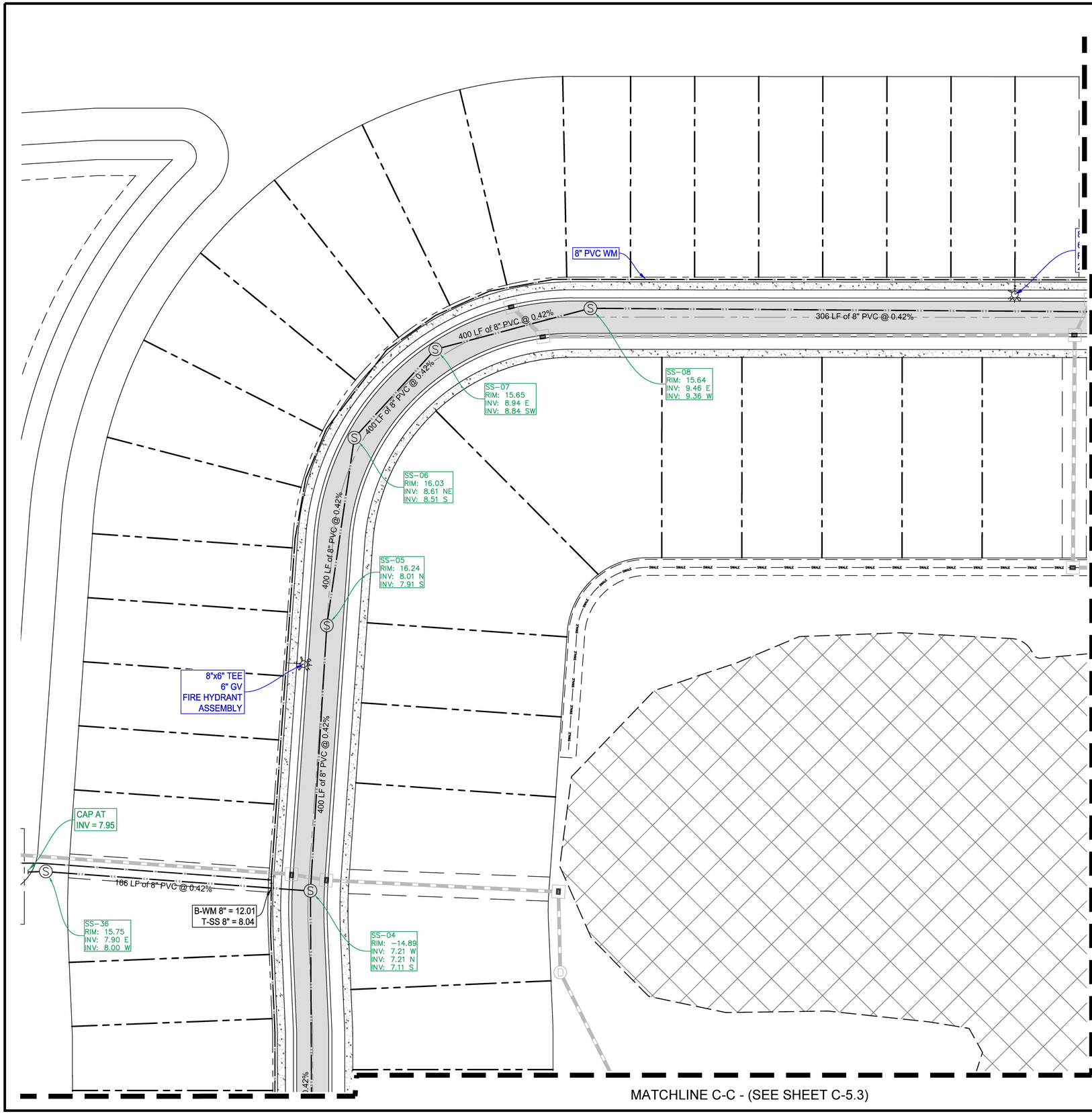
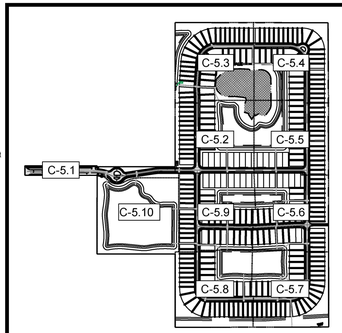


N

0 15 30 60 Feet

1" = 30'



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LEGEND:

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James Mills

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CITY OF FORT PEIRCE, FL 34981

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UTILITY PLAN

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CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-5.3

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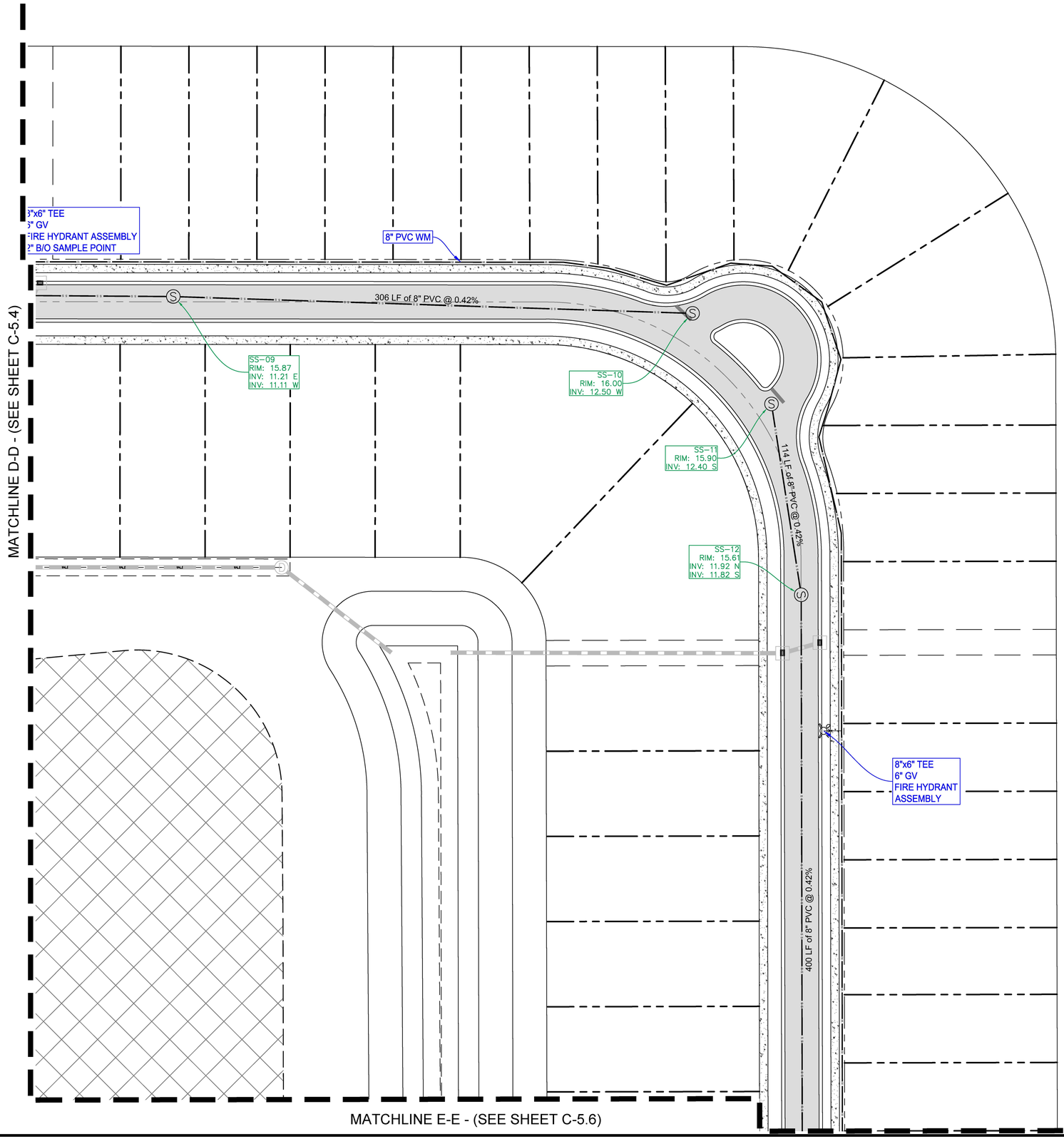

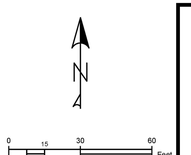

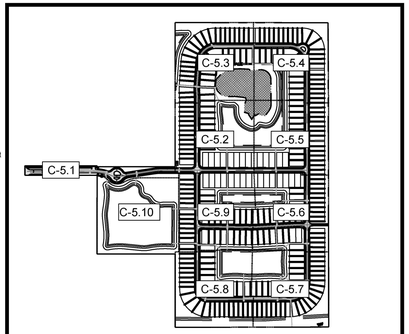

VICINITY MAP
SCALE: NTS

LEGEND:

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- PROPOSED WATER MAIN
- PROPOSED SANITARY FORCE MAIN
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James Mills

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PROFESSIONAL ENGINEER

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SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

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DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO.	24-1600
DATE	10-02-2024
SHEET NO.	C-5.4

MATCHLINE F-F - (SEE SHEET C-5.3)

MATCHLINE E-E - (SEE SHEET C-5.5)

SS-13
RIM: 16.66
INV: 10.14 N
INV: 10.04 S

400 LF of 8" PVC @ 0.42%

8"x6" TEE
6" GV
FIRE HYDRANT ASSEMBLY
2" B/O SAMPLE POINT

8" PVC WM

SS-14
RIM: 16.24
INV: 8.36 N
INV: 8.26 S

SS-15
RIM: 16.75
INV: 7.89 N
INV: 7.79 W
INV: 8.62 S

87 LF of 8" PVC @ 0.42%

SS-16
RIM: 15.90
INV: 7.06 E
INV: 6.96 W

8"x6" TEE
6" GV
FIRE HYDRANT ASSEMBLY

386 LF of 8" PVC @ 0.42%

173 LF of 8" PVC @ 0.42%

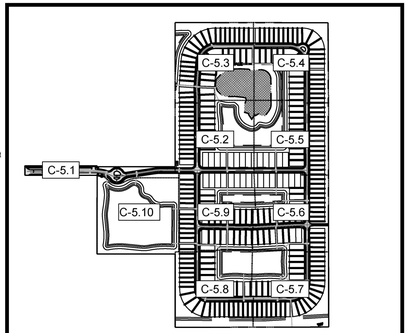
8" TEE
8" GV
8" GV

B-WM 8" = 13.13
T-SS 8" = 9.27

MATCHLINE G-G - (SEE SHEET C-5.7)

N

0 15 30 60 Feet
1" = 30'



VICINITY MAP
SCALE: NTS

LEGEND:

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- PROPOSED STORMWATER MANAGEMENT
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- S S — PROPOSED SANITARY SEWER MAIN
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- SFM — PROPOSED SANITARY FORCE MAIN
- SFM — EXISTING CoFP SANITARY FORCE MAIN
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CITY OF FORT PEIRCE, FL 34981

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APPROVED BY: JWM
SCALE: SEE SHEET

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C-5.5

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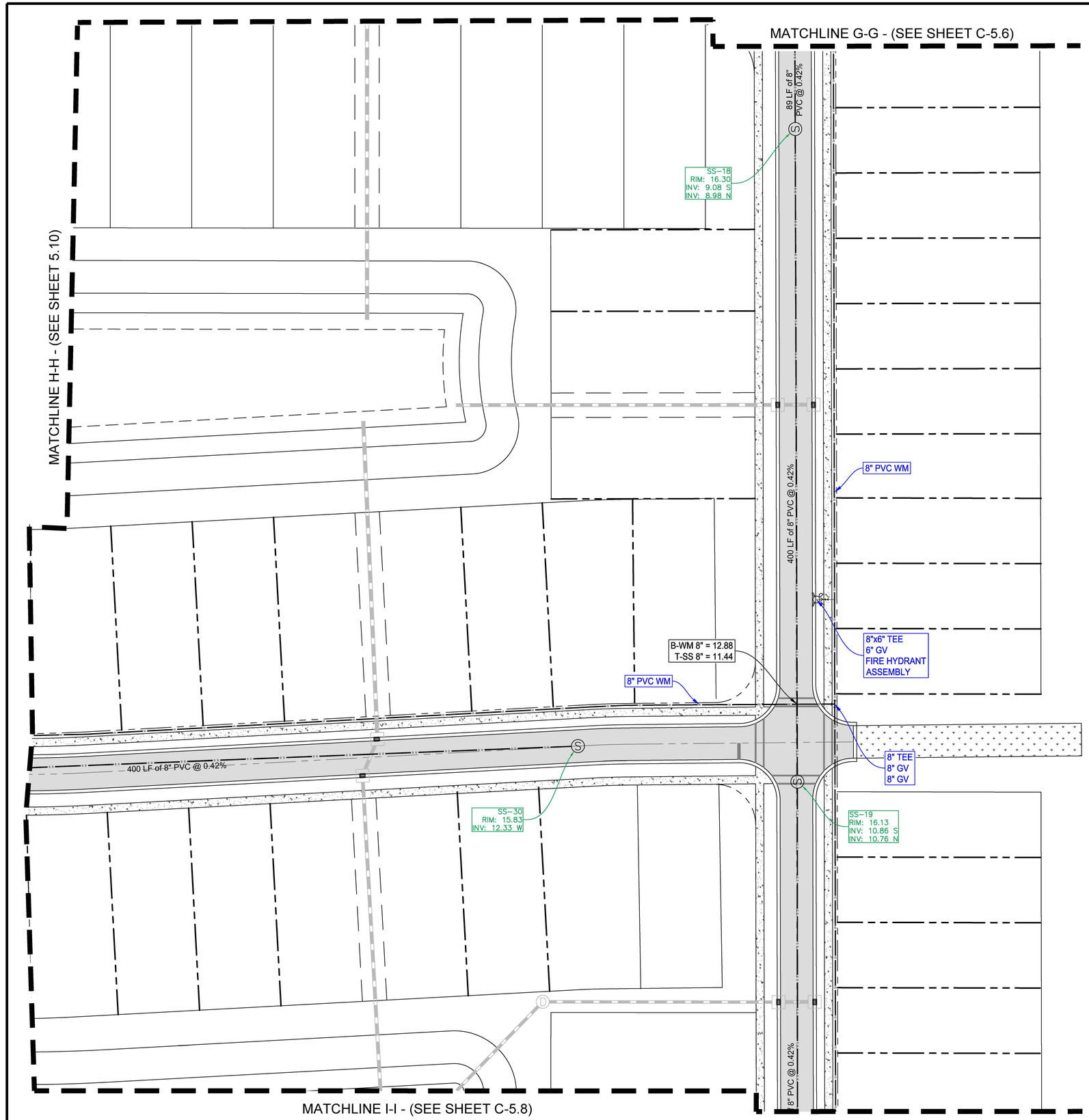

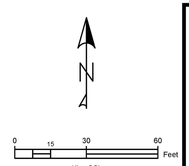

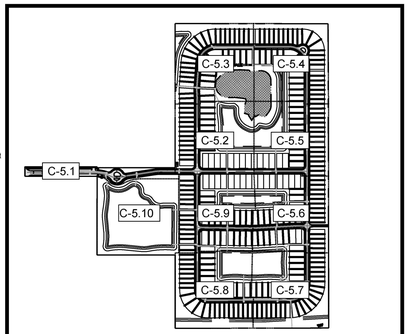

VICINITY MAP
SCALE: NTS

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CITY OF FORT PEIRCE, FL 34981

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DATE 10-02-2024
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C-5.6

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DATE: 5/15/2025
TIME: 12:16 PM

MATCHLINE I-I - (SEE SHEET C-5.7)

363 LF

8" PVC WM

SS-20
RIM: 15.88
INV: 12.38 N

8"x6" TEE
6" GV
FIRE HYDRANT
ASSEMBLY

SS-21
RIM: 15.54
INV: 12.04 S

SS-22
RIM: 15.84
INV: 11.73 N
INV: 11.63 SW

84 LF of 8" PVC @ 0.42%

SS-23
RIM: 16.18
INV: 11.22 NE
INV: 11.12 W

105 LF of 8" PVC @ 0.42%

367 LF of 8" PVC @ 0.42%

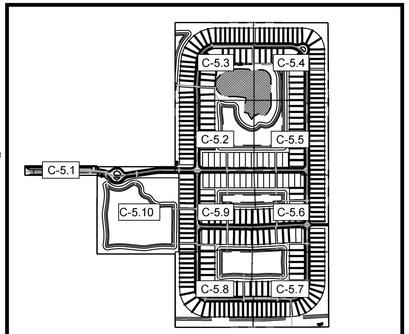
MATCHLINE J-J - (SEE SHEET C-5.9)

CHRISTENSEN ROAD

DEVINE ROAD

N

0 15 30 60 Feet
1" = 30'



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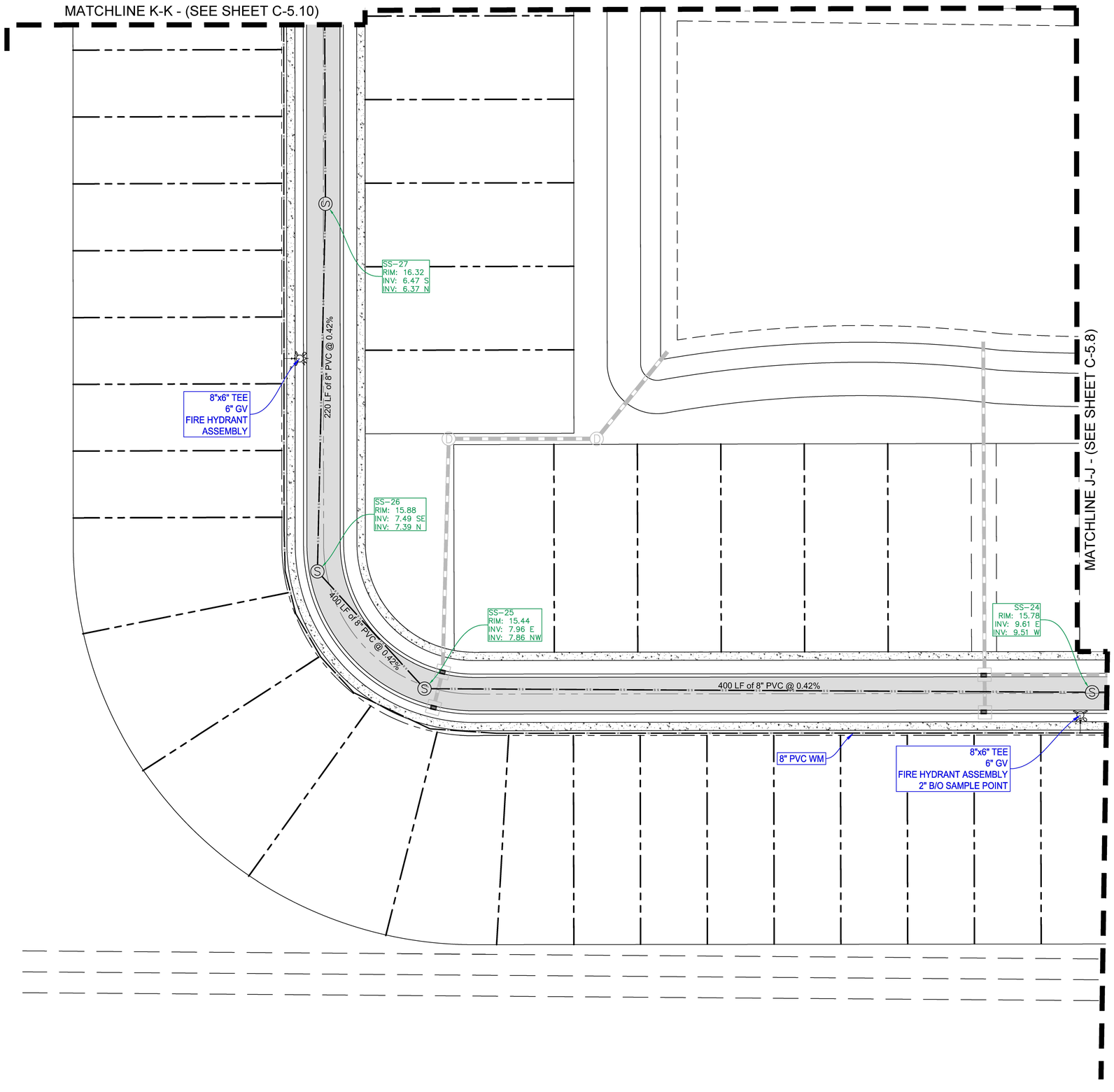
DATE: 5/15/2025
TIME: 12:16 PM



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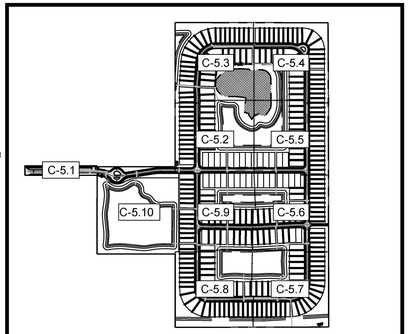
1" = 30'



VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED SANITARY SEWER MAIN
- PROPOSED WATER MAIN
- PROPOSED SANITARY FORCE MAIN
- EXISTING CoFP SANITARY FORCE MAIN
- EXISTING CoFP WATERMAIN MAIN

Mills, Short & Associates
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James Mills

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DN: C=NA,James Mills, E=mail=jim@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:09:14-04'00'

JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
UTILITY PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-5.8

MATCHLINE M-M - (SEE SHEET C-5.3)

MATCHLINE L-L - (SEE SHEET C-5.11)

MATCHLINE H-H - (SEE SHEET C-3.7)

270 LF of 8" PVC @ 0.42%

215 LF of 8" PVC @ 0.42%

399 LF of 8" PVC @ 0.42%

324 LF of 8" PVC @ 0.42%

SS-31
RIM: 23.45
INV: 4.00 S
INV: 3.90 N

8" PVC WM

B-WM 8" = 12.81
T-SS 8" = 5.30

8" TEE
8" GV
8" GV

8" PVC WM

8"x6" TEE
6" GV
FIRE HYDRANT
ASSEMBLY

SS-28
RIM: 16.75
INV: 5.00 S
INV: 4.90 N
INV: 8.87 E

SS-29
RIM: 16.16
INV: 10.65 E
INV: 10.55 W

MATCHLINE K-K - (SEE SHEET C-5.9)

N

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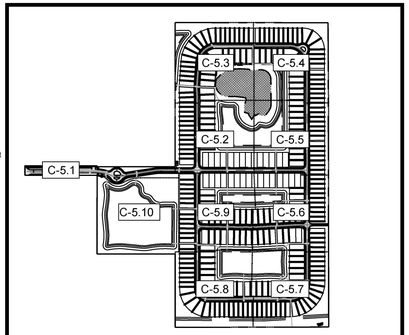
1" = 30'



VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- S S — PROPOSED SANITARY SEWER MAIN
- W — PROPOSED WATER MAIN
- SFM — PROPOSED SANITARY FORCE MAIN
- SFM — EXISTING CoFP SANITARY FORCE MAIN
- W_X — EXISTING CoFP WATERMAIN MAIN

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Vero Beach, Florida 32960

James Mills

Digitally signed by James Mills
DN: CN=James Mills, E=mills@millsshortassociates.com, O=James, SN=Mills, C=US
Date: 2025.05.15 13:06:16-04'00'

JAMES W. MILLS
LICENSE
No. 74145
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: UTILITY PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-5.9

05/15/2025

TIME: 12:16 PM

DATE: 5/15/2025

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-4 UTILITY PLAN.dwg

MATCHLINE N-N - (SEE SHEET C-5.2)

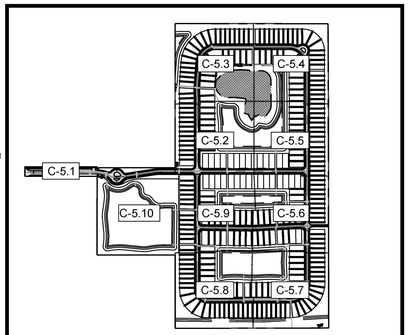
AMENITY TRACE

MATCHLINE L-L - (SEE SHEET C-5.10)

N

0 15 30 60 Feet

1" = 30'



VICINITY MAP
SCALE: NTS

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
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- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED SANITARY SEWER MAIN
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No. 74145
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PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET
UTILITY PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-5.10

05/15/2025

TIME: 12:17 PM

DATE: 5/15/2025

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-5 UTILITY DETAILS.dwg

FORT PIERCE UTILITIES AUTHORITY
WATER DISTRIBUTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. WATER MAINS WHERE SPECIFIED AS POLYVINYL CHLORIDE (PVC) SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150, DR (18). WATER MAINS WHERE SPECIFIED AS POLYETHYLENE (PE) SHALL CONFORM TO AWWA C-901 OR C-906, STANDARD CODE DESIGNATION PE3408, PIPE CLASS 200, DIMENSION RATIO (DR) 17 FOR DIRECT BURY, (DR) 11 FOR DIRECTIONAL BORING, AND (DR) 9 FOR 2 INCH AND SMALLER PIPELINES.
3. WATER MAIN, WHERE SPECIFIED AS DUCTILE IRON PIPE , SHALL CONFORM TO ANSI/AWWA C151/A21.51 AND SHALL BE PRESSURE CLASS 250 (MINIMUM).
4. POLYVINYL CHLORIDE WATER MAIN SHALL BE BLUE IN COLOR OR WHITE IN COLOR WITH BLUE STRIPES. THE USE OF IDENTIFICATION TAPE ATTACHED TO THE TOP OF THE PIPE MAY BE USED IN LIEU OF MARKING ON THE PIPE. ALSO DIP PIPE SHALL REQUIRE THE USE OF IDENTIFICATION TAPE AND THHN WIRE.
5. FITTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C-110/A21.10, CLASS 250 MIN., CEMENT LINED AND FACTORY COATED
6. GATE VALVES SHALL BE MUELLER RESILIENT SEAT, KENNDY KEN-SEAL, AMERICAN OR APPROVED EQUAL. VALVES SHALL CONFORM TO AWWA C-509.
7. WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY, COUNTY, FDOT, IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES. THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
8. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE FPUA ENGINEER AND CITY/COUNTY/FDOT ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY FPUA ENGINEERING AND CITY/COUNTY/FDOT ENGINEERING 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
10. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, FPUA, AND CITY/ COUNTY/FDOT ENGINEER SHALL BE MANDATORY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. TRAFFIC CONTROL, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND APPROVED BY THE CITY ENGINEER.
12. MINIMUM COVER SHALL BE 36 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/ COUNTY/FDOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DUCTILE IRON OR IN PVC CASING.
13. DISTURBED AREAS SHALL BE RESTORED IN CONFORMANCE WITH THE APPLICABLE GOVERNING AGENCY REQUIREMENTS.
14. EXISTING UTILITIES AND DRAINAGE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND PROTECTED BY THE CONTRACTOR.
15. WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-651 FOR DISINFECTION.

WATER DISTRIBUTION	G-1 NOTES
02-08 DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JJM; DRAWN BY: JJM; APPROVED: JLC	COMPUTER FILE # DETAIL NOTES 200602.DWG; SCALE: N.T.S.; DATE: 2010
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 2

FORT PIERCE UTILITIES AUTHORITY
WATER DISTRIBUTION NOTES CONTINUED

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITIES AND DRAINAGE.
17. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER INCLUDING LOCATIONS OF VALVES, FITTINGS, SERVICE CONNECTIONS, BLOWOFFS, AIR RELEASE VALVES, AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT, AS REQUIRED BY THE UTILITIES ENGINEER.
18. THE CONTRACTOR SHALL TAP EXISTING LINES UNDER THE SUPERVISION OF THE FORT PIERCE UTILITIES AUTHORITY ONLY AFTER TESTING AND DISINFECTION HAS BEEN COMPLETED AND APPROVED ON THE TAPPING VALVE AND SLEEVE.
19. WATER MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN MULTI STRANDED WIRE (BLUE IN COLOR) AND IDENTIFICATION TAPE WITH "WATER" MARKED ON TAPE, PERMANENTLY ATTACHED TO THE TOP OF THE WATER MAIN IN ACCORDANCE WITH THE FORT PIERCE UTILITIES AUTHORITY SPECIFICATIONS.
20. SERVICE TAPS SHALL BE PLACED APPROXIMATELY TEN FEET AWAY FROM GATE VALVES, AS SHOWN, FOR TESTING. FOLLOWING TESTING AND STERILIZATION OF WATER LINE, CONTRACTOR SHALL PLACE A BRASS PLUG IN CORPORATION STOPS AND CURB STOPS SHALL BE REMOVED FROM TESTING LOCATIONS.
21. MECHANICAL RESTRAINTS TO BE USED ON ALL FITTINGS AND PLACED IN ACCORDANCE WITH MANUFACTURER'S OR ENGINEER'S RECOMMENDATIONS (WHICHEVER IS MORE STRINGENT) AND FPUA REQUIREMENTS.
22. ALL MAINS SHALL BE TESTED AT A MINIMUM OF 150 PSI. TESTING METHODS SHALL CONFORM TO AWWA C-600. – 2 HR MINIMUM TEST

$$L = \frac{SD(P)^{1/2}}{148,000}$$

L= LEAKAGE IN GPH
S= LENGTH OF PIPE IN FEET
D= PIPE DIAMETER IN INCHES
P= TESTING PRESSURE IN PSI

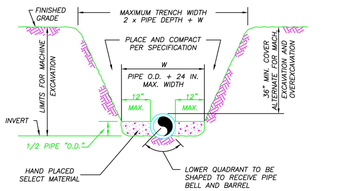
23. PRIOR TO ANY TESTING, ALL MAINS 6" IN DIA. AND LARGER SHALL HAVE A SWAB PASSED THRU THE ENTIRE LENGTH OF THE LINE. NOTE: SWAB SHOULD BE PLACED IN 1st. JOINT OF NEW LINE. END OF MAIN SHOULD BE "TURNED UP" AT 45% AND EXTENDED SO THAT SWABBING AND A FULL BORE FLUSH CAN BE ACCOMPLISHED. BLOW-OFF ASSY CAN THEN BE PLACED. WHERE LINES BRANCH, SWABS WILL BE PLACED IN BRANCH LINES AND SEQUENTIALLY SWABBED AND FLUSHED.
24. A MINIMUM SIX FEET AND PREFERABLY TEN FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND ANY WASTEWATER LINES. 6 INCHES MINIMUM VERTICAL SEPARATION IF WATER MAIN IS OVER WASTEWATER AND 12 INCHES IF WATER MAIN IS UNDER SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND ANY WASTWATER LINES. THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE OR STRUCTURE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
25. WHERE A WATER MAIN IS TO BE INSTALLED BELOW A STORM DRAIN PIPE, A MINIMUM OF 6 INCHES OF VERTICAL CLEARANCE BETWEEN PIPES SHALL BE CONSTRUCTED OF DIP AT THE CROSSING, AND SHALL BE MECHANICALLY RESTRAINED WITHIN 20 FEET OF THE CROSSING.
26. CONTRACTOR SHALL COMPLY WITH FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

WATER DISTRIBUTION	G-1 NOTES
02-08 DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JJM; DRAWN BY: JJM; APPROVED: JLC	COMPUTER FILE # DETAIL NOTES 200602.DWG; SCALE: N.T.S.; DATE: 2010
FT. PIERCE UTILITIES AUTHORITY	SHEET 2 OF 2

FORT PIERCE UTILITIES AUTHORITY WASTEWATER CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. GRAVITY SEWER MAIN SHALL BE POLYVINYL CHLORIDE SDR-26, GREEN OR WHITE IN COLOR, GRAVITY SEWER MAIN SHALL HAVE LOCATOR TAPE WITH "SEWER" MARKED ON TAPE AND SHALL CONFORM TO ASTM D-3034.
3. THE MANHOLE BASE SHALL BE SET ON A FIRM, DRY AND STABLE OR COMPACTED BASE FOUNDATION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE ROCK TO PROVIDE A FIRM AND SUITABLE MANHOLE BASE FOUNDATION.
4. WASTEWATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY ENGINEERING DEPARTMENT, IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THEN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
5. A 1% MINIMUM SLOPE SHALL BE MAINTAINED ON ALL SANITARY SERVICE LATERALS.
6. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER CONSISITING OF PIPE SIZES, LOCATION OF SERVICE TEE WYES, DIAMETER OF SERVICES, LOCATION OF ANY FITTINGS, FINAL RIM AND INVERT ELEVATION OF ALL MANHOLES AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT.
7. MAINTAIN SIX FEET AND PREFERABLY 10 FEET HORIZONTAL DISTANCE BETWEEN WATER MAINS AND SEWER MAINS AS A MINIMUM.
8. WASTEWATER FORCE MAINS, WASTEWATER COLLECTION LINES, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE SHALL BE PROVIDED WHENEVER POSSIBLE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER PIPE JOINTS ARE EQUIDISTANCE FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, AND FPUA/CITY COUNTY/FDOT SHALL BE MANDATORY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
10. NO FIELD CHANGES OR DEVIATIONS FORM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL FPUA/CITY/COUNTY/FDOT ENGINEER.
11. TRAFFIC CONTROL, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
12. CONTRACTOR SHALL NOTIFY FORT PIERCE UTILITIES AUTHORITY 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
13. WASTEWATER FORCE MAIN SHALL BE POLYVINYL CHLORIDE CONFORMING TO AWWA C-900, AND SHALL BE CLASS 150, DR-18.
14. WASTEWATER FORCE MAIN SHALL BE GREEN IN COLOR.
15. FITTINGS SHALL BE DUCTILE IRON, CONFORMING TO ANS/AWWA C-110/A21.10 CLASS 250 MIN. AND INTERIOR EPOXY COATED.
16. WASTEWATER FORCE MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN WIRE (GREEN IN COLOR) PERMANENTLY ATTACHED TO THE TOP OF THE FORCE MAIN WITH LOCATOR TAPE MARKED "SEWER" ON TAPE IN ACCORDANCE WITH FPUA SPECIFICATIONS.
17. MINIMUM COVER SHALL BE 36 INCHES, PIPES WITH COVER LESS THAN 30 INCHES SHALL REQUIRE PRIOR APPROVAL OF THE UTILITIES ENGINEER AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
18. EACH SERVICE LATERAL WILL BE MARKED WITH A LOCATOR BALL AS MANUFACTURED BY 3M CORPORATION, OR APPROVED EQUAL AS REQUIRED BY FPUA ENGINEER.
19. ALL MANHOLES SHALL HAVE SEWER RAIN GUARDS INSTALLED AS REQUIRED BY FPUA ENGINEER.
20. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

WASTEWATER CONSTRUCTION NOTES FPUA REQUIREMENTS	G-2 CONSTRUCTION NOTES
02-08 DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JJM; DRAWN BY: JJM; APPROVED: JLC	COMPUTER FILE # DETAIL NOTES 200602.DWG; SCALE: N.T.S.; DATE: 2010
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1

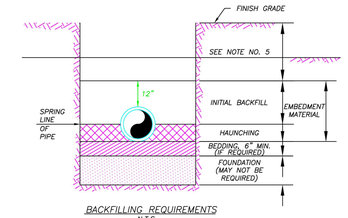


NOTES:

1) THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
2) INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE PIPE. BACKFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 100% OF MAX. DENSITY AS DETERMINED BY AASHTO METHOD T-99.

TYPICAL TRENCH DETAIL
N.T.S.

TYPICAL TRENCH DETAIL	M-1
03-09 CONCRETE SLAB / SLL / JLC; DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC; DRAWN BY: SLL; APPROVED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG; SCALE: ; DATE: 2015
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1

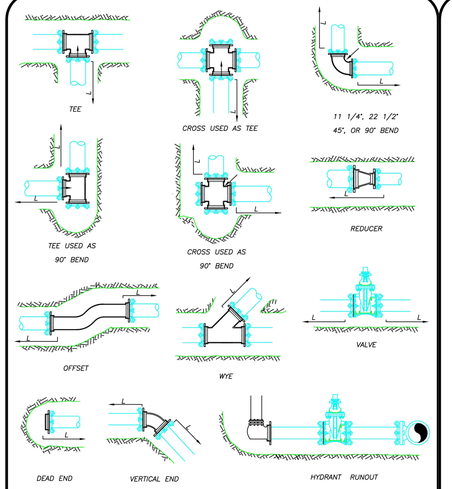


BACKFILLING REQUIREMENTS
N.T.S.

NOTES:

1) IN CERTAIN SOIL CONDITIONS A FOUNDATION MAY BE REQUIRED.
2) BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE.
3) HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
4) INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF PIPE. THE SOIL SHALL BE COMPACTED TO 100% MAX. DENSITY.(AASHTO T-99)
5) BACKFILL SHALL BE COMPACTED TO 100% OF MAX. DENSITY AS PER AASHTO T-99, TO A POINT 30" BELOW PROPOSED PROFILE GRADE OR EXISTING GRADE. THE FINAL 30" OF BACKFILL SHALL BE COMPACTED TO 98% OF MAX. DENSITY AS PER AASHTO T-180.
6) DENSITY TEST SHALL BE PERFORMED AT AREAS DETERMINED BY THE UTILITIES ENGINEER OR PERMIT AGENCY HAVING JURISDICTION, AT THE CONTRACTORS EXPENSE.
7) CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL TRENCH SAFETY REGULATIONS.

BACKFILLING REQUIREMENTS	M-2
03-09 CONCRETE SLAB / SLL / JLC; DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC; DRAWN BY: SLL; APPROVED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG; SCALE: ; DATE: 2015
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1



MECHANICAL JOINT ANCHORING REQUIREMENTS
N.T.S.

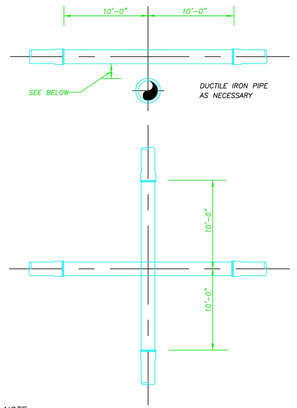
MECHANICAL JOINT ANCHORING REQUIREMENTS	M-3
03-09 CONCRETE SLAB / SLL / JLC; DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC; DRAWN BY: SLL; APPROVED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG; SCALE: ; DATE: 2015
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1

MECHANICAL JOINT RESTRAINT NOTES

NOTES:

1) THE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE REQUIRED LENGTH TO BE RESTRAINED BASED UPON THE PROJECT AREA SOIL TYPE, PROPOSED TRENCH CONDITIONS AND DEPTH, PRESSURE OF 150 PSI, AND A SAFETY FACTOR OF TWO (2). A DRAWING OF EVERY TYPICAL FITTING ASSEMBLY WITHIN THE PROJECT SHALL BE SUBMITTED WHICH REFLECTS THE RESTRAINT DETAIL PROPOSED FOR USE, INCLUDING LENGTH OF PIPE RESTRAINT.
2) REQUIRED RESTRAINED LENGTH CALCULATIONS SHALL ALSO CONSIDER THE CONDITIONS OF OTHER BENDS OR FITTINGS THAT WILL BE LOCATED WITHIN THE CALCULATED RESTRAINED LENGTH (L) OF THE BEND OR FITTING IN QUESTION.
3) EVERY JOINT OR FITTING MUST BE RESTRAINED ON BOTH SIDES OF THE BEND AND FOR TEES ALONG THE BEND ALSO.

MECHANICAL JOINT RESTRAINT NOTES	M-4
03-09 CONCRETE SLAB / SLL / JLC; DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC; DRAWN BY: SLL; APPROVED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG; SCALE: ; DATE: 2015
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1

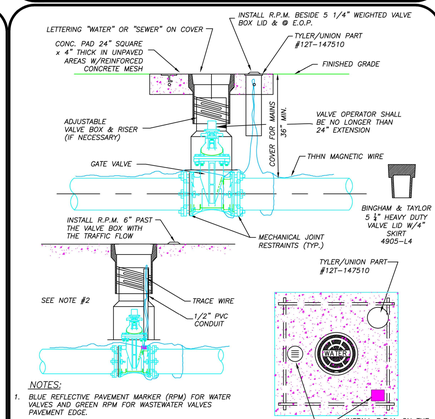


NOTE:

PLEASE REFER TO FORT PIERCE UTILITIES STANDARD SEPARATION STATEMENT FOR WATER / SEWER CONFLICTS.

UTILITY CROSSING DETAIL
N.T.S.

UTILITY CROSSING DETAIL	M-5
03-09 CONCRETE SLAB / SLL / JLC; DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC; DRAWN BY: SLL; APPROVED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG; SCALE: ; DATE: 2015
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1

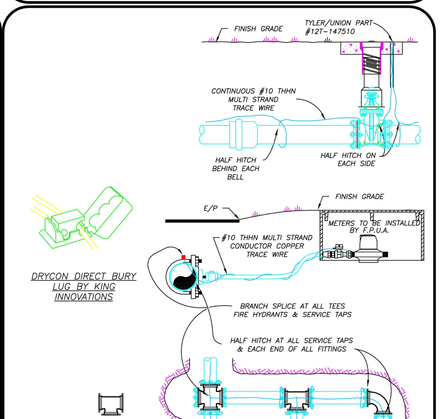


NOTES:

1. BLUE REFLECTIVE PAVEMENT MARKER (RPM) FOR WATER VALVES AND GREEN RPM FOR WASTEWATER VALVES PAVEMENT EDGE.
2. FOR WATER AND WASTEWATER VALVES INSTALLED IN PAVED AREAS, ELIMINATE CONCRETE PAD AND ENCASE THE MAGNETIC WIRE IN 1/2" PVC INSIDE THE VALVE BOX SEVEN INCHES BELOW GRADE.
3. DIP MAY BE USED AS RISERS ONLY IF A VALVE BOX IS NOT MANUFACTURED FOR THAT DEPTH. NO PVC RISERS SHALL BE USED IN ANY CIRCUMSTANCES.

TYPICAL GATE VALVE & VALVE BOX DETAIL
N.T.S.

TYPICAL GATE VALVE & VALVE BOX DETAIL	M-6
03-09 CONCRETE SLAB / SLL / JLC; DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC; DRAWN BY: SLL; APPROVED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG; SCALE: ; DATE: 2015
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1



NOTES:

1) TRACE WIRE IS REQUIRED ON ALL PIPE AS NOTED BY UTILITIES ENGINEER AND SHOWN IN STANDARD DETAILS.
2) INCLUDE ALL COST OF MATERIAL & LABOR IN PRICE OF PIPE.
3) CONTRACTOR IS RESPONSIBLE FOR CONTINUITY OF ALL TRACE WIRE.

TRACE WIRE
(N.T.S.)

TRACE WIRE DETAIL	M-11
03-09 CONCRETE SLAB / SLL / JLC; DATE / REVISION / BY / APPD	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC; DRAWN BY: SLL; APPROVED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG; SCALE: ; DATE: 2015
FT. PIERCE UTILITIES AUTHORITY	SHEET 1 OF 1

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960
PHONE: 772.226.7282
C.A. #: 30698

James Mills — Digitally signed by James Mills, DN: CN=James Mills, E=mills@millsshortassociates.com, G=James, SN=Mills, C=US, Date: 2025.05.15 13:00:21-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

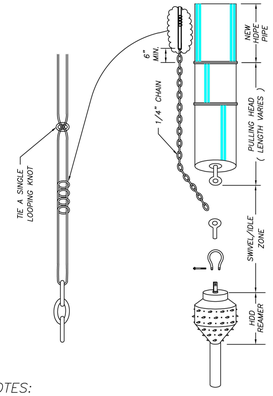
ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: UTILITY DETAILS

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

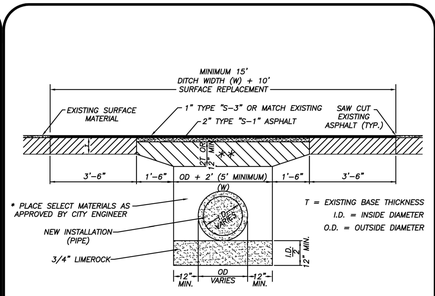
PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-6.1



NOTES:

1. WHERE DIRECTIONAL DRILLING LENGTHS EXCEED 750 LINEAR FEET AND/OR HDPE PIPE DIAMETER EXCEED 12 INCHES, A SECOND LENGTH OF TRACE WIRE SHALL BE INSTALLED.
2. TRACE WIRE SHALL CONFORM TO THE FOLLOWING SPECIFICATION:
   MANUFACTURER – COPPERHEAD INDUSTRIES, LLC
   PART NUMBER – 1245B–EHS–500 / 1245B–EHS–1000 / 1245B–EHS–2500
   PART NUMBER DESCRIPTION – 12 (AWG), 45 (JACKET MIL), B (JACKET COLOR: B=BLUE, G=GREEN, ETC.) – EHS (EXTRA HIGH STRENGTH–HARD DRAWN / 1150# BREAKING LOAD STRENGTH) – 500 (WIRE LENGTH IN FEET)

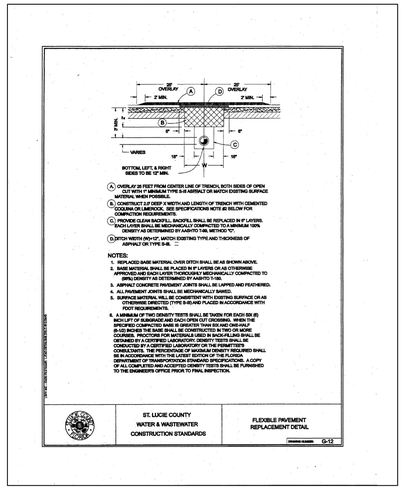
DIRECTIONAL BORE
WIRE ATTACHMENT
M–16
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
03–09 CONCRETE SLAB — DESIGNED: JLC — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # MISC. DETAILS 200603.DWG — SCALE: N.T.S. — DATE: 2015 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY



* INITIAL BACKFILL SHALL BE PLACED TO 12" ABOVE THE PIPE IN 6" LIFTS. BACFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO METHOD T–99, UPPERMOST 12" BE COMPACTED TO 98% OF T–99.

** LIMEROCK OR CRUSHED COQUINA COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO METHOD T–180

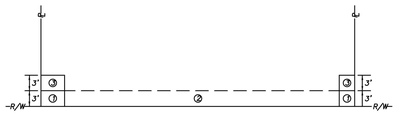
PAVEMENT RESTORATION DETAIL WITH TRENCH
CITY REQUIREMENTS
R–3
FORT PIERCE UTILITIES AUTHORITY — WATER/WASTEWATER ENGINEERING
DESIGNED: JLC — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # MISC. DETAILS 200603.DWG — SCALE: N.T.S. — DATE: 2010 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY



FLEXIBLE PAVEMENT
REPLACEMENT DETAIL
R–4
FORT PIERCE UTILITIES AUTHORITY — WATER/WASTEWATER ENGINEERING
DESIGNED: JLC — DRAWN BY: JLC — APPD: JLC — COMPUTER FILE # MISC. DETAILS 200603.DWG — SCALE: N.T.S. — DATE: 2010 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY

GENERAL POLICY

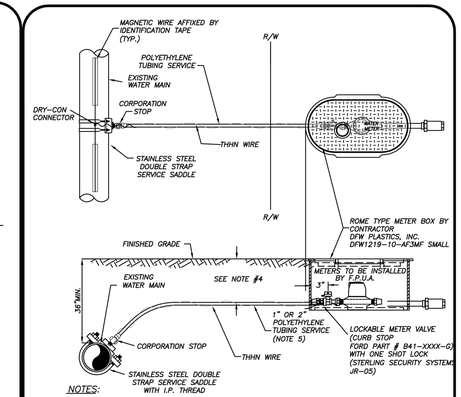
WHERE COST JUSTIFIED AND OPERATIONALLY FEASIBLE, IT IS THE GENERAL POLICY OF THE F.P.U.A. TO PROVIDE WATER, ELECTRIC, SEWER AND GAS SERVICE FROM THE STREET SIDE OF A PIECE OF PROPERTY, DEPENDING ON FACTORS SUCH AS LOCATION OF EXISTING SUPPLY SOURCE FACILITIES, REAR OR SIDE LOT LINE SUPPLY MAY BE AUTHORIZED, BUT ONLY WITH PRIOR APPROVAL FROM THE F.P.U.A.



NOTES:

1. THE PREFERRED POINT OF CONNECTION TO THE F.P.U.A. WATER METER, AREA ① SHALL BE LOCATED IN THE CORNER OF THE PROPERTY SELECTED BY THE F.P.U.A. AS THE BEST LOCATION FOR THE WATER METER. EVERY EFFORT WILL BE MADE TO SELECT THE CORNER WHERE TWO WATER SERVICES AND METERS CAN BE CONNECTED.
2. IF PHYSICAL BARRIERS OR OTHER OBSTACLES PREVENT THE CONNECTION OF THE BUILDING SERVICE LINE TO THE F.P.U.A. WATER SERVICE, WITHIN AREA ①, THE F.P.U.A. ENGINEERING DEPARTMENT MAY AUTHORIZE THE CONNECTION ALONG THE PORTION OF THE R/W LINE MARKED AREA ②, OR ALONG THE PROPERTY LINES MARKED AREA ③.
3. HORIZONTAL SEPARATION OF WATER AND WASTEWATER SERVICES SHOULD BE A MINIMUM OF 6 FEET AND PREFERABLY 10 FEET.
4. ALL METERS SHALL BE INSTALLED IN AN UNRESTRICTED AREA FOLLOWING EASE OF ACCESS AND PROVIDING ADEQUATE PROTECTION.
5. THE F.P.U.A. SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE WATER LATERAL WITHIN THE EASEMENT OR RIGHT–OF–WAY, UP TO THE POINT OF CONNECTION.

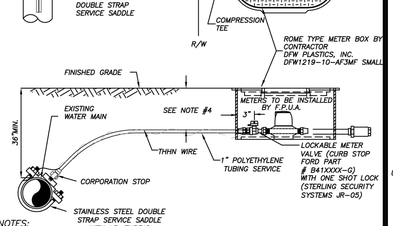
WATER METER PLACEMENT
(N.T.S.)
W–1
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
03–09 — 02–15 — DESIGNED: JLC — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # WATER DETAILS 200603.DWG — SCALE: N.T.S. — DATE: 2010 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY



NOTES:

1. BLUE 10 GAUGE THHN WIRE SHALL BE ATTACHED TO THE SERVICE LINE.
2. WHERE SERVICES UNDER PAVEMENT ARE REQUIRED, THE POLYETHYLENE TUBING SHALL BE INSTALLED WITHIN SCHEDULE 40 PVC CASING PIPE.
3. 1" & 3/4" METER SIZES SHALL REQUIRE A LOCKABLE METER VALVE. (CURB STOP)
4. MINIMUM COVER IN UNPAVED AREAS SHALL BE 30", IN PAVED AREAS OR PLANNED ROADWAYS OR SWALES MIN. COVER SHALL BE 36".
5. FOR 2" COMMERCIAL SERVICE INSTALLATIONS, FPUA WILL INSTALL ABOVE GROUND METER PER DETAIL W–8.

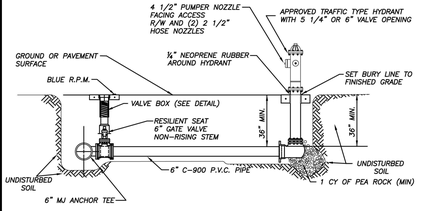
TYPICAL SINGLE WATER SERVICE CONNECTION
(N.T.S.)
TYPICAL SINGLE WATER
SERVICE CONNECTION
W–2
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
03–09 DESIGN — DESIGNED: JLC — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # WATER DETAILS 200603.DWG — SCALE: N.T.S. — DATE: 2020 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY



NOTES:

1. BLUE 10 GAUGE THHN WIRE SHALL BE ATTACHED TO THE SERVICE LINE.
2. WHERE SERVICES UNDER PAVEMENT ARE REQUIRED, THE POLYETHYLENE TUBING SHALL BE INSTALLED WITHIN SCHEDULE 40 PVC CASING PIPE.
3. 1" & 3/4" METER SIZES SHALL REQUIRE A LOCKABLE METER VALVE. (CURB STOP)
4. MINIMUM COVER IN UNPAVED AREAS SHALL BE 30", IN PAVED AREAS OR PLANNED ROADWAYS OR SWALES MIN. COVER SHALL BE 36".

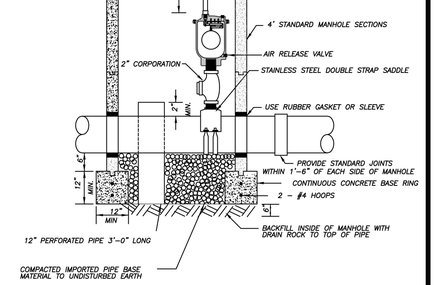
TYPICAL DOUBLE WATER SERVICE CONNECTION
(N.T.S.)
TYPICAL DOUBLE WATER
SERVICE CONNECTION
W–3
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
03–09 DESIGN — DESIGNED: JLC — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # WATER DETAILS 200603.DWG — SCALE: N.T.S. — DATE: 2020 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY



NOTES:

1. HYDRANT SHALL BE INSTALLED PLUMB & TRUE.
2. HYDRANT SHALL BE PAINTED CARNIVAL RED FROM FACTORY.
3. HEEL TO REST IN UNDISTURBED SOIL.
4. THE ONLY HYDRANTS ACCEPTABLE ARE: MUELLER SUPER CENTURION 250 OR AMERICAN DARLING B–54–B–5
5. HYDRANT ASSEMBLY MUST BE RESTRAINED TO TEE.
6. ALL FITTINGS SHALL BE MECHANICAL JOINT.
7. ENTIRE ASSEMBLY TO BE MECHANICALLY RESTRAINED.
8. BLUE LOCATOR SHALL BE PLACED IN CENTER OF TRAVEL LANE CLOSEST TO HYDRANT.
9. ALL HYDRANT VALVE BOX COVERS SHALL BE PAINTED CARNIVAL RED.
10. LOCATE WIRE SHALL TERMINATE AT HYDRANT ISOLATION VALVE
11. HYDRANTS SHALL BE NO MORE THAN FIFTEEN FEET (15 FT.) FROM THE CURB OF ROADWAYS OR FROM THE EDGE OF PAVEMENT. CLEARANCES OF SEVEN AND ONE HALF FEET (7FT–6IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANTS, WITH FOUR FOOT (4 FT.) CLEARANCE TO THE REAR OF HYDRANTS SHALL BE MAINTAINED.

TYPICAL FIRE HYDRANT ASSEMBLY
(N.T.S.)
TYPICAL FIRE HYDRANT ASSEMBLY
W–5
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
03–09 DESIGN — DESIGNED: JLC — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # WATERDETAIL.DWG — SCALE: N.T.S. — DATE: 2010 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY



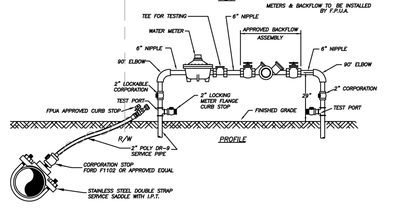
NOTES:

1. MANHOLE FRAME AND COVER WITH THE WORD WATER CAST IN THE COVER.

AUTOMATIC AIR RELEASE VALVE ASSEMBLY
(N.T.S.)
AUTOMATIC AIR RELEASE
VALVE ASSEMBLY FOR WATER
W–7A
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
03–09 DESIGN — DESIGNED: JLC — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # WATERDETAIL.DWG — SCALE: N.T.S. — DATE: 2010 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY

GENERAL POLICY

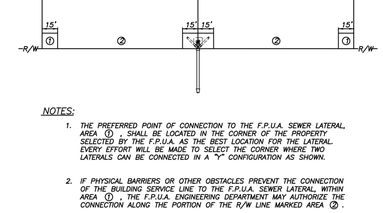
WHERE COST JUSTIFIED AND OPERATIONALLY FEASIBLE, IT IS THE GENERAL POLICY OF THE F.P.U.A. TO PROVIDE WATER, ELECTRIC, SEWER AND GAS SERVICE FROM THE STREET SIDE OF A PIECE OF PROPERTY, DEPENDING ON FACTORS SUCH AS LOCATION OF EXISTING SUPPLY SOURCE FACILITIES, REAR OR SIDE LOT LINE SUPPLY MAY BE AUTHORIZED, BUT ONLY WITH PRIOR APPROVAL FROM THE F.P.U.A.



NOTES:

1. LANDSCAPING REQUIRED PER CITY OF FORT PIERCE OR ST. LUCIE COUNTY ORDINANCE. NO PLANTS OR TREES WITHIN 18" AROUND METER OR BACKFLOW. NO SOLDER JOINTS.
2. ASSEMBLY TO BE 29" FROM FINISH GRADE TO CENTERLINE OF THE FLANGED 90° BEND.

WATER METER/BACKFLOW PREVENTER ASSEMBLY
DOMESTIC SERVICE (COMMERCIAL)
(N.T.S.)
WATER METER/BACKFLOW PREVENTER
ASSEMBLY–DOMESTIC SERVICES (METER SIZE 2" OR LESS)
W–8
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
04–24 DESIGN — DESIGNED: JLC — DRAWN BY: JLC — APPD: JLC — COMPUTER FILE # WATER DETAILS 200603.DWG — SCALE: N.T.S. — DATE: 2010 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY



NOTES:

1. THE PREFERRED POINT OF CONNECTION TO THE F.P.U.A. SEWER LATERAL, AREA ①, SHALL BE LOCATED IN THE CORNER OF THE PROPERTY SELECTED BY THE F.P.U.A. AS THE BEST LOCATION FOR THE LATERAL. EVERY EFFORT WILL BE MADE TO SELECT THE CORNER WHERE TWO LATERALS CAN BE CONNECTED IN A "Y" CONFIGURATION AS SHOWN.
2. IF PHYSICAL BARRIERS OR OTHER OBSTACLES PREVENT THE CONNECTION OF THE BUILDING SERVICE LINE TO THE F.P.U.A. SEWER LATERAL, WITHIN AREA ①, THE F.P.U.A. ENGINEERING DEPARTMENT MAY AUTHORIZE THE CONNECTION ALONG THE PORTION OF THE R/W LINE MARKED AREA ②.
3. HORIZONTAL SEPARATION OF WATER AND WASTEWATER SERVICES SHOULD BE A MINIMUM OF SIX FEET AND PREFERABLY 10 FEET.
4. THE WASTEWATER LATERAL SHALL BE LOCATED WITHIN RIGHT–OF–WAY AND TERMINATE AT THE PROPERTY LINE.
5. THE F.P.U.A. SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE WASTEWATER LATERAL WITHIN THE EASEMENT OR RIGHT–OF–WAY, UP TO THE POINT OF CONNECTION.

WASTEWATER SERVICE PLACEMENT
(N.T.S.)
WASTEWATER SERVICE
PLACEMENT POLICY
S–1
FPUA COMMUNITY PROUD — WATER/WASTEWATER ENGINEERING
02–06 — 02–15 — DESIGNED: JLM — DRAWN BY: SLJ — APPD: JLC — COMPUTER FILE # SEWER DETAIL 200603.DWG — SCALE: N.T.S. — DATE: 2010 — SHEET 1 OF 1
FT. PIERCE UTILITIES AUTHORITY

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
PHONE: 772.226.7282
C.A. #: 30698
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: C=NA, E=James.Mills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:09:23-04'00'

JAMES W. MILLS — LICENSE No. 74145 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981
THIS SHEET: UTILITY DETAILS
DRAWN BY: DCC
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APPROVED BY: JWM
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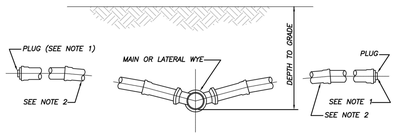
PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-6.2

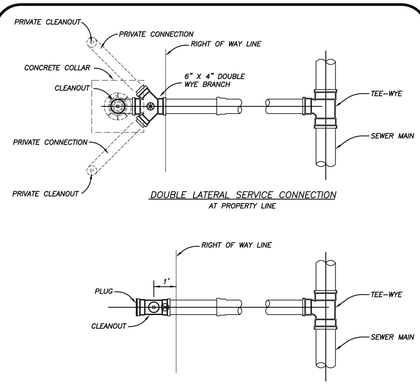


NOTES:

1) BALL TYPE WASTEWATER LOCATOR BY 3M CORP. OR APPROVED EQUAL.
2) MINIMUM SLOPE OF 1/8" PER FOOT, USE GREATER SLOPE WHERE POSSIBLE.
3) SERVICE LATERAL SHALL TERMINATE WITH A CLEANOUT.
4) INSTALL CLEANOUT AT THE PROPERTY LINE. REFER TO DETAIL S-1 FOR SPECIFIC PROPERTY LAYOUT.

SERVICE CONNECTION
(N.T.S.)

SERVICE CONNECTION (WASTEWATER)	S-2
02-06 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: BY: APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2015
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1



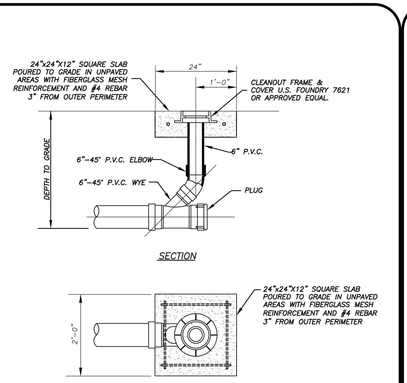
DOUBLE LATERAL SERVICE CONNECTION
AT PROPERTY LINE

SINGLE SERVICE LATERAL CONNECTION

⊗ = BALL TYPE WASTEWATER LOCATOR INSTALLED ABOVE THIS POINT
BALL BY 3M CORP. OR APPROVED EQUAL
SERVICE LATERAL SHALL TERMINATE WITH A CLEANOUT

SERVICE CONNECTION
(N.T.S.)

SERVICE CONNECTION (WASTEWATER)	S-3
02-06 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: BY: APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2010
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1



SECTION

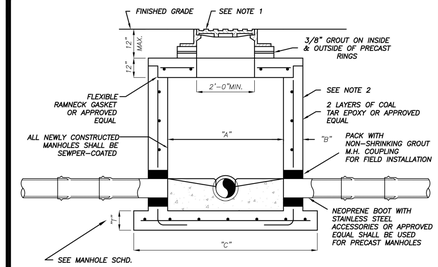
PLAN

NOTES:

1) SEE DETAIL S-3 FOR DOUBLE SERVICE CONNECTION.

RESIDENTIAL CLEANOUT DETAIL
(N.T.S.)

TERMINAL CLEANOUT DETAIL (RESIDENTIAL)	S-4A
10-06 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: RWC BY: APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2010
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 3



PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	8"	76"	8"
30"-36"	5'-0"	8"	88"	10"
42"-48"	6'-0"	8"	100"	12"

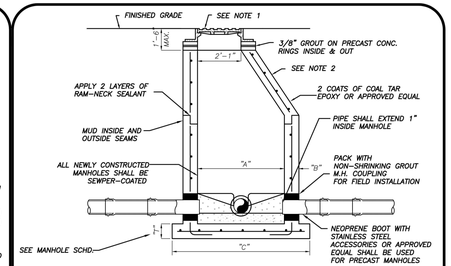
TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.
5) NEW MANHOLES SHALL BE SEWPERCOATED.

SHALLOW MANHOLE
DEPTH OF LESS THAN 5'-0"
(N.T.S.)

PRECAST MANHOLE DEPTH OF LESS THAN 5'-0"	S-6
06-24 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: GTR BY: JWB APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2024
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1



PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	8"	76"	8"
30"-36"	5'-0"	8"	88"	10"
42"-48"	6'-0"	8"	100"	12"

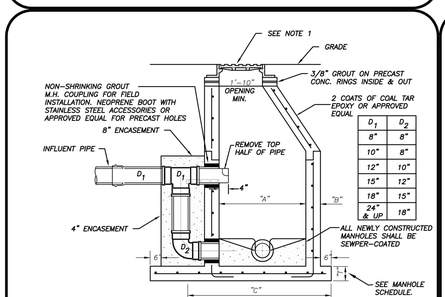
TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.
5) NEW MANHOLES SHALL BE SEWPERCOATED.

STANDARD MANHOLE
DEPTH 5'-0" AND GREATER
(N.T.S.)

PRECAST MANHOLE DEPTH 5'-0" & GREATER	S-7
06-24 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: GTR BY: JWB APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2024
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1



D_1	D_2
8"	8"
10"	8"
12"	10"
15"	12"
18"	15"
24" & UP	18"

PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	8"	70"	8"
30"-36"	5'-0"	8"	84"	10"
42"-48"	6'-0"	8"	96"	12"

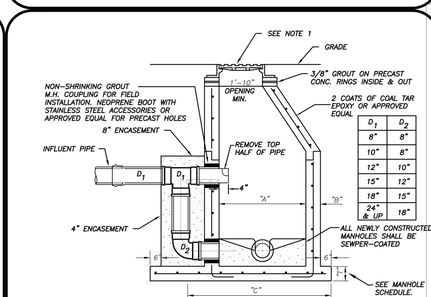
TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.
5) NEW MANHOLES SHALL BE SEWPERCOATED.

OUTSIDE DROP MANHOLE
(N.T.S.)

PRECAST MANHOLE WITH OUTSIDE DROP	S-8
06-24 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: BY: APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2024
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1



D_1	D_2
8"	8"
10"	8"
12"	10"
15"	12"
18"	15"
24" & UP	18"

PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	8"	70"	8"
30"-36"	5'-0"	8"	84"	10"
42"-48"	6'-0"	8"	96"	12"

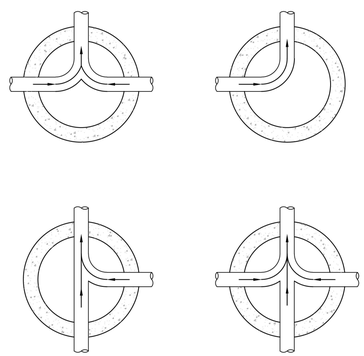
TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.
5) NEW MANHOLES SHALL BE SEWPERCOATED.

OUTSIDE DROP MANHOLE
(N.T.S.)

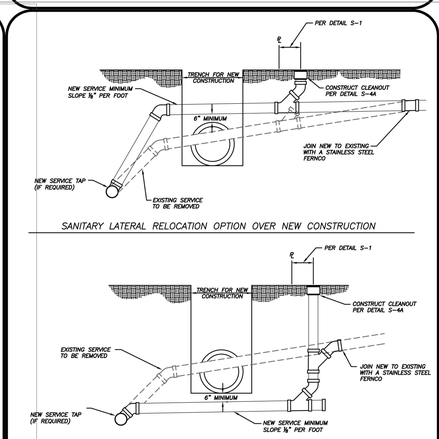
PRECAST MANHOLE WITH OUTSIDE DROP	S-8
06-24 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: BY: APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2024
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1



NOTES:

1) INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
2) SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOWS.

FLOW PATTERNS FOR INVERT CHANNELS	S-12
DESIGN: JLM DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: BY: APPD. COMPUTER FILE # SEWER DETAIL 2006Q3.DWG SCALE: N.T.S. DATE: 2010
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1

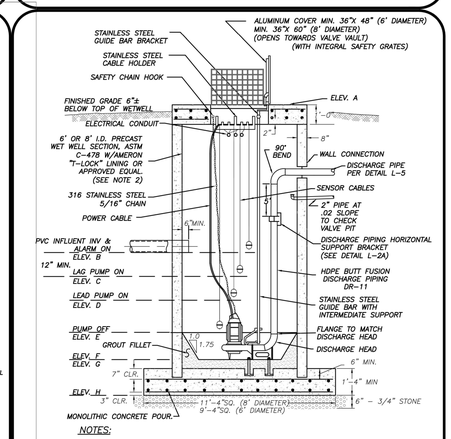


SANITARY LATERAL RELOCATION OPTION OVER NEW CONSTRUCTION

SANITARY LATERAL RELOCATION OPTION UNDER NEW CONSTRUCTION

NOTES:
1. ALL PIPING SHALL BE SDR-26 WITH SDR-26 FITTINGS.

SANITARY SEWER LATERAL ADJUSTMENT FOR NEW CONSTRUCTION	S-17
03-09 DESIGN: JLC DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: SLL BY: JLC APPD. COMPUTER# SCALE: N.T.S. SCALE DATE: 2010
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1



NOTES:

1. ALL INTERIOR CONCRETE SURFACES OF WET WELL NOT COVERED WITH AMERON "T-LOCK" SHALL HAVE 2 COATS OF COAL TAR EPOXY IN INSTANCES WHERE FPUA ENGINEERING DIRECTS.
2. "T-LOCK" OR APPROVED EQUAL SHALL ALSO BE REQUIRED ON ALL STRUCTURE PENETRATIONS AND THE INTERIOR OF THE TOP SLAB.
3. TRIPLEX MASTER LIFT STATIONS SHALL HAVE 12' DIAMETER WETWELL.
4. MINIMUM SIZE DISCHARGE PIPING SHALL BE AS FOLLOWS: 4" FOR 6' DIA WETWELL, 6" FOR 8' DIA WETWELL AND 8" FOR 12' DIA WETWELL.
5. STRUCTURAL DESIGN– PER MANUFACTURERS SHOP DRAWINGS.
6. FLOATATION PER DESIGN ENGINEER.

LIFT STATION SECTION VIEW	L-1
2015 DESIGN: JWM DRAWN BY: SLL APPROVED: JLC	DATE: REVISION: SLL BY: APPD. COMPUTER FILE # LIFT STATION DETAILS2006Q3.DWG SCALE: N.T.S. DATE: FEBRUARY 2017
EPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER/STORM ENGINEERING — FT. PIERCE, FLORIDA 34947 — 772-466-1600	WATER/WASTEWATER ENGINEERING — FT. PIERCE UTILITIES AUTHORITY — SHEET 1 OF 1

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C.A. #: 30698
WEBSITE: www.MillsShortAssociates.com
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: CN=James Mills, E=jmills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:09:25-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

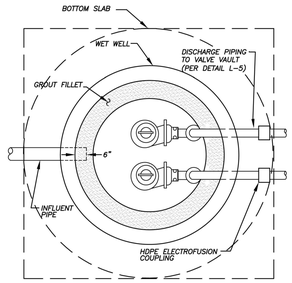
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: UTILITY DETAILS

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

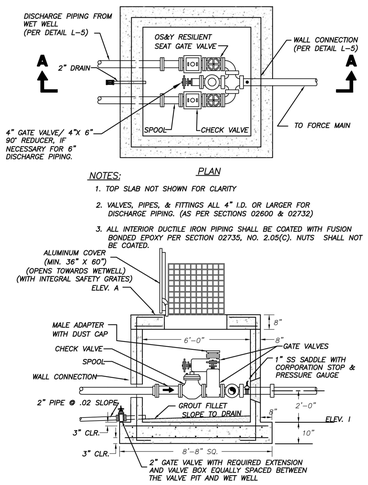
PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-6.3

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-5 UTILITY DETAILS.dwg



NOTE:
TOP SLAB NOT SHOWN FOR CLARITY

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER ENGINEERING, 772-466-1600	LIFT STATION PLAN VIEW	L-3
DESIGNED: JJM	DATE:	REVISION:	BY:	APPD:
DRAWN BY: JJM	COMPUTER FILE # LIFT STATION DETAILS2010002.DWG	WATER/WASTEWATER ENGINEERING
APPROVED: JLC	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
	DATE: DECEMBER 2007	SHEET 1 OF 1

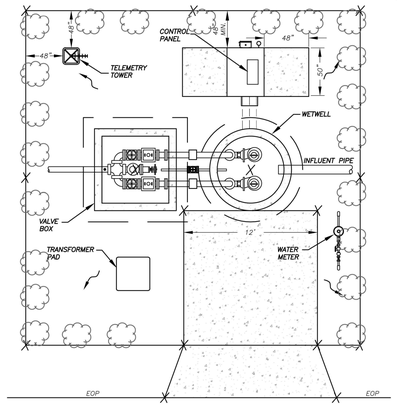


PLAN

NOTES:
1. TOP SLAB NOT SHOWN FOR CLARITY
2. VALVES, PIPES, & FITTINGS ALL 4" I.D. OR LARGER FOR DISCHARGE PIPING. (AS PER SECTIONS 02600 & 02732)
3. ALL INTERIOR DUCTILE IRON PIPING SHALL BE COATED WITH FUSION BONDED EPOXY PER SECTION 02735, NO. 2.05(C). NUTS SHALL NOT BE COATED.

SECTION A-A

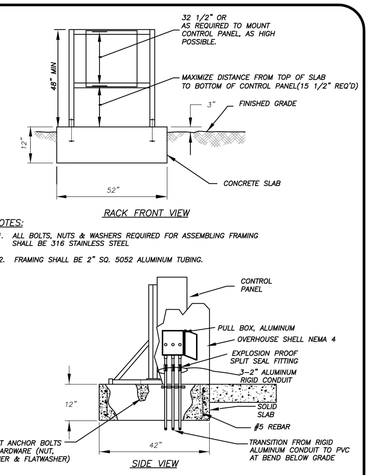
FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER ENGINEERING, 772-466-1600	LIFT STATION VALVE PIT	L-4
DESIGNED: JLC	2015 REVISION:	BY:	APPD:
DRAWN BY: JLC	COMPUTER FILE # LIFT STATION DETAILS2010002.DWG	WATER/WASTEWATER ENGINEERING
APPROVED: JLC	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
	DATE: DECEMBER 2007	SHEET 1 OF 1



TYPICAL LIFT STATION EASEMENT LAYOUT
N.T.S

NOTES:
1) ONLY TO BE USED FOR GENERAL SITE LAYOUT. REFER TO FPUA'S LIFT STATIONS, PUMPS, AND CONTROL DESIGN AND CONSTRUCTION STANDARDS 02735 FOR SPECIFIC CONSTRUCTION REQUIREMENTS.
2) LANDSCAPE AROUND LIFT STATION PER LOCAL ORDINANCE. (COCO PLUM)
3) AREA TO BE LAID WITH SOD.
4) BOLD "X" REPRESENTS ELEVATIONS NECESSARY TO CONFIRM DRAINAGE AND INSTALLATION REQUIREMENTS.
5) LIFT STATION EASEMENT SHALL MEASURE 30' x 30' (MINIMUM)

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER ENGINEERING, 772-466-1600	LIFT STATION LAYOUT PLAN	L-6
DESIGNED: JLC	2015 CONCRETE PAD REVISION:	SLL	BY:	JLC	APPD:
DRAWN BY: JLC	COMPUTER FILE # LIFT STATION DETAILS2010002.DWG	WATER/WASTEWATER ENGINEERING
APPROVED: JLC	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
	DATE: AUGUST 2014	SHEET 1 OF 1



RACK FRONT VIEW

NOTES:
1. ALL BOLTS, NUTS & WASHERS REQUIRED FOR ASSEMBLING FRAMING SHALL BE 316 STAINLESS STEEL
2. FRAMING SHALL BE 2" SQ. 5052 ALUMINUM TUBING.

SIDE VIEW

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER ENGINEERING, 772-466-1600	LIFT STATION EQUIPMENT MOUNTING RACK	L-13
DESIGNED: JLC	2014 REVISION:	BY: RBC	APPD:
DRAWN BY: JLC	COMPUTER FILE # LIFT STATION DETAILS2010002.DWG	WATER/WASTEWATER ENGINEERING
APPROVED: JLC	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
	DATE: DECEMBER 2007	SHEET 1 OF 1

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700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills
Digitally signed by James Mills
DN: C=N=James Mills, E=mills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:09:27-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

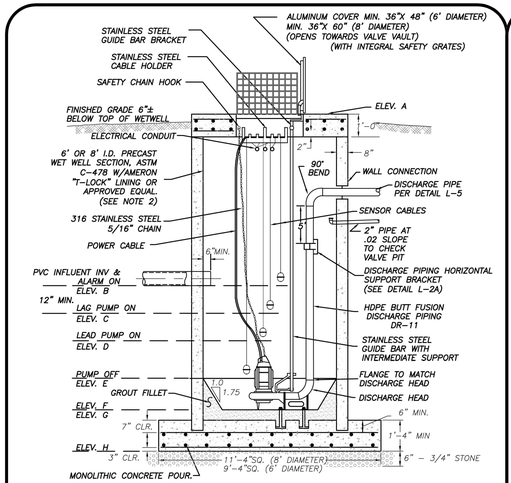
ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: UTILITY DETAILS

DRAWN BY: DCC | CHECKED BY: JWM | APPROVED BY: JWM | SCALE: SEE SHEET

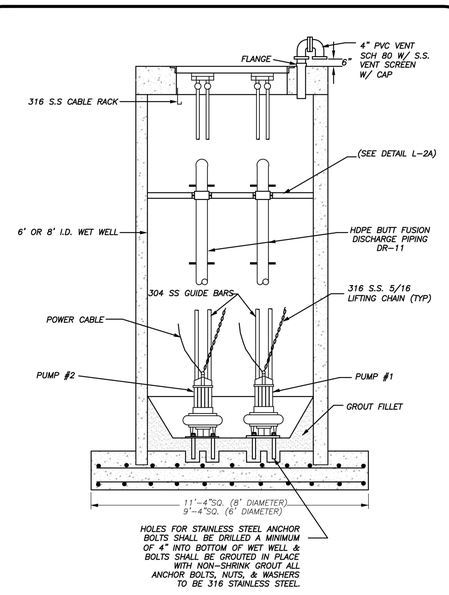
PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-6.4



NOTES:

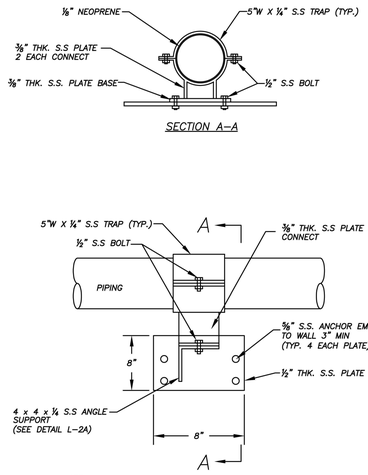
1. ALL INTERIOR CONCRETE SURFACES OF WET WELL NOT COVERED WITH AMERON "T-LOCK" SHALL HAVE 2 COATS OF COAL TAR EPOXY IN INSTANCES WHERE FPUA ENGINEERING DIRECTS.
2. "T-LOCK" OR APPROVED EQUAL SHALL ALSO BE REQUIRED ON ALL STRUCTURE PENETRATIONS AND THE INTERIOR OF THE TOP SLAB.
3. TRIPLEX MASTER LIFT STATIONS SHALL HAVE 12' DIAMETER WETWELL.
4. MINIMUM SIZE DISCHARGE PIPING SHALL BE AS FOLLOWS: 4" FOR 6' DIA WETWELL, 6" FOR 8' DIA WETWELL, AND 8" FOR 12' DIA WETWELL.
5. STRUCTURAL DESIGN– PER MANUFACTURERS SHOP DRAWINGS.
6. FLOATATION PER DESIGN ENGINEER.

FPUA COMMUNITY PROUD	LIFT STATION SECTION VIEW	L-1
2015 DATE:	REVISION:	BY: APPD:
DESIGNED: JWM	COMPUTER FILE # LIFT STATION DETAILS2000602.DWG	WATER/WASTEWATER ENGINEERING
DRAWN BY: JWM	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: FEBRUARY 2017	SHEET 1 OF 1



HOLES FOR STAINLESS STEEL ANCHOR BOLTS SHALL BE DRILLED A MINIMUM OF 4" INTO BOTTOM OF WET WELL & BOLTS SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT ALL ANCHOR BOLTS, NUTS, & WASHERS TO BE 316 STAINLESS STEEL.

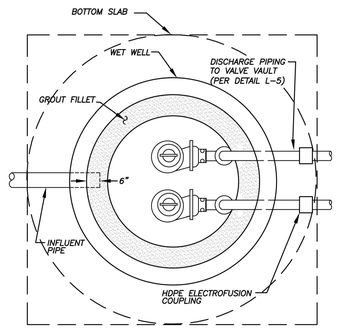
FPUA COMMUNITY PROUD	SECTION VIEW–DUPLEX PUMP INSTALLATION	L-2
DATE:	REVISION:	BY: APPD:
DESIGNED: JWM	COMPUTER FILE # LIFT STATION DETAILS2000602.DWG	WATER/WASTEWATER ENGINEERING
DRAWN BY: JWM	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: FEBRUARY 2017	SHEET 1 OF 1



NOTE:

1. PIPE SUPPORT SHALL UTILIZE #316 STAINLESS STEEL MATERIAL
2. CONSTRUCT ALL WELDS IN ACCORDANCE WAS AWS D–1.6 STRUCTURAL WELDING CODE.

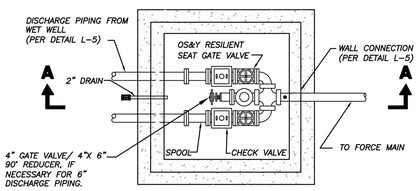
FPUA COMMUNITY PROUD	LIFT STATION PIPE SUPPORT DETAIL	L-2A
DATE:	REVISION:	BY: APPD: RBC
DESIGNED: JJM	COMPUTER FILE # LIFT STATION DETAILS2000602.DWG	WATER/WASTEWATER ENGINEERING
DRAWN BY: JJM	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: DECEMBER 2007	SHEET 1 OF 1



NOTE:

TOP SLAB NOT SHOWN FOR CLARITY

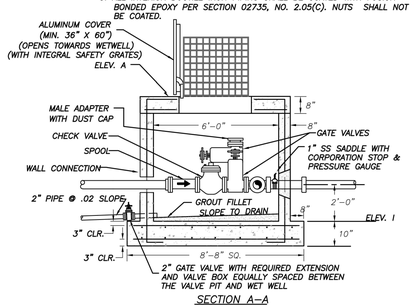
FPUA COMMUNITY PROUD	LIFT STATION PLAN VIEW	L-3
DATE:	REVISION:	BY: APPD:
DESIGNED: JJM	COMPUTER FILE # LIFT STATION DETAILS2000602.DWG	WATER/WASTEWATER ENGINEERING
DRAWN BY: JJM	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: DECEMBER 2007	SHEET 1 OF 1



PLAN

NOTES:

1. TOP SLAB NOT SHOWN FOR CLARITY
2. VALVES, PIPES, & FITTINGS ALL 4" I.D. OR LARGER FOR DISCHARGE PIPING. (AS PER SECTIONS 02600 & 02732)
3. ALL INTERIOR DUCTILE IRON PIPING SHALL BE COATED WITH FUSION BONDED EPOXY PER SECTION 02735, NO. 2.05(C). NUTS SHALL NOT BE COATED.



SECTION A–A

FPUA COMMUNITY PROUD	LIFT STATION VALVE PIT	L-4
2015 DATE:	REVISION:	BY: APPD:
DESIGNED: JLC	COMPUTER FILE # LIFT STATION DETAILS2000602.DWG	WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: DECEMBER 2007	SHEET 1 OF 1

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
PHONE: 772.226.7282
C.A. #: 30698
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills

Digitally signed by James Mills
DN: CN=James Mills, E=mailto:jmills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:09:29-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

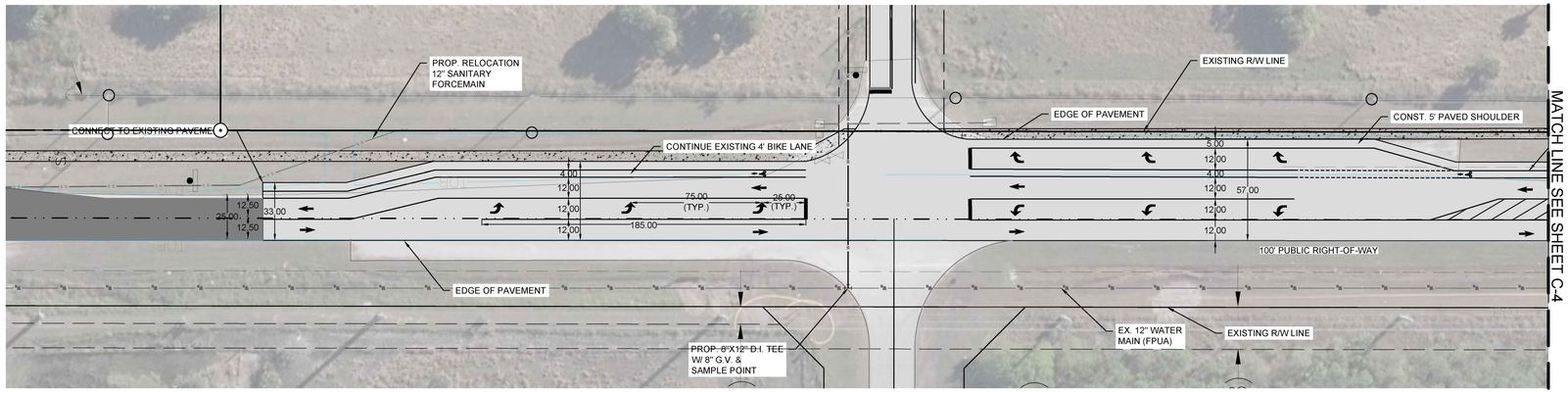
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: UTILITY DETAILS (LIFT STATION)

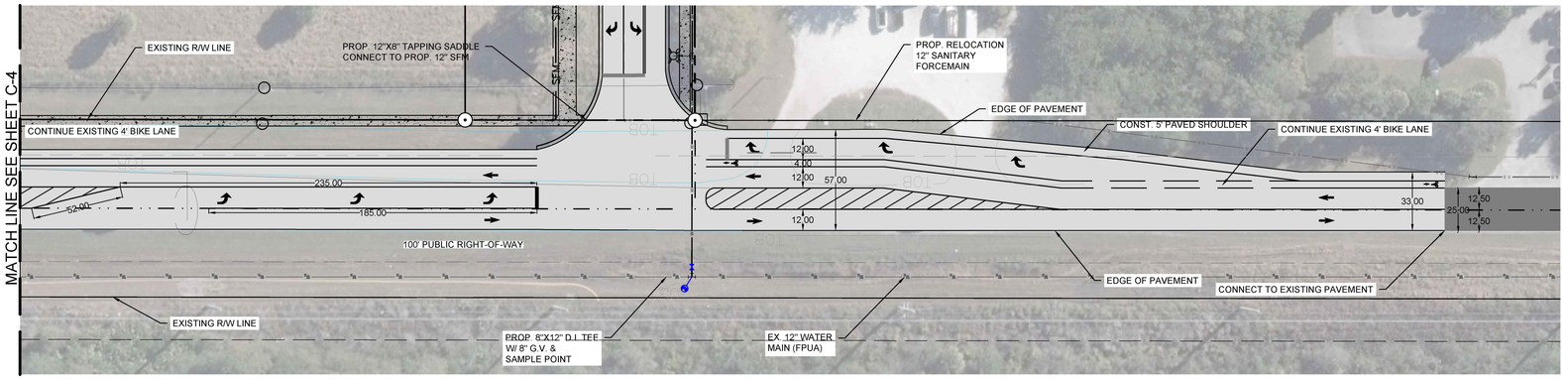
DRAWN BY: DCC | CHECKED BY: JWM | APPROVED BY: JWM | SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-6.5

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-3 PAVING, GRADING, AND DRAINAGE DETAILS.dwg
DATE: 5/15/2025
TIME: 12:17 PM



OFF-SITE IMPROVEMENTS (SELVITZ ROAD)
SCALE: 1" = 40'



OFF-SITE IMPROVEMENTS (SELVITZ ROAD)
SCALE: 1" = 40'

*ALL IMPACTS TO THE RIGHT-OF-WAY SHALL BE SODDED WITHIN THREE (3) DAYS OF FINAL GRADING.

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED STORMWATER PIPE
- 16.80 PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- 17.00 EXISTING TOPOGRAPHY LINE
- S PROPOSED DRAINAGE STRUCTURES
- S S PROPOSED SANITARY SEWER MAIN
- W PROPOSED WATER MAIN
- SFM PROPOSED SANITARY FORCE MAIN
- SFM EXISTING CoFP SANITARY FORCE MAIN
- W_X EXISTING CoFP WATERMAIN MAIN

DRAINAGE AND GRADING NOTES:

1. ELEVATIONS SHOWN HEREON ARE IN FEET, REFERENCED TO NAVD 88.
2. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE RECORDS OF ST. LUCIE COUNTY AND THE VARIOUS APPLICABLE UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES TO REQUEST EXACT FIELD LOCATION OF UTILITIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. ANY CONDITIONS NOT ALLOWING WATER TO FLOW AS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR RESOLUTION.
5. CONTRACTOR SHALL REVIEW PROPOSED GRADES TO ENSURE COMPATIBILITY WITH CHANGES IN ELEVATION WITHIN THE PROPOSED PLAN.
6. THE STORM WATER DRAINAGE DESIGN IS INTENDED TO CONTAIN ALL REQUIRED SITE STORM WATER RUNOFF AND DISCHARGE INTO AN APPROVED STORM WATER SYSTEM. CONTRACTOR SHALL NOTIFY ENGINEER, SHOULD THE ADJACENT PROPERTY GRADES VARY FROM THOSE SHOWN ON THE PLAN AND CHANGE THE INTENT OF STORM WATER DESIGN.
7. ONSITE EXCAVATED MATERIAL TO BE USED FOR ONSITE PURPOSES ONLY. IF MATERIAL IS TO BE HAULED OFFSITE, MINING PERMIT MAY BE REQUIRED. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF MATERIAL IS TO BE HAULED OFFSITE.
8. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES.
9. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY.
10. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
11. ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS OTHERWISE SPECIFIED.
12. ALL CUT OR FILL SLOPES SHALL BE 4H:1V OR FLATTER UNLESS OTHERWISE NOTED.
13. ALL DISTURBED AREAS ARE TO BE SODDED AND/OR STABILIZED. CONTRACTOR SHALL RE-GRADE RAINFALL WASHOUTS WHERE THEY OCCUR UNTIL ADEQUATE STABILIZATION OCCURS.
14. ALL SLOPES OF LAKE BANKS SHALL BE SODDED WITH FLORATAM

FLOOD ZONE:
THE SUBJECTED PROPERTY IS LOCATED IN FLOOD ZONE "X" PER F.I.R.M. PANEL NO. 1206C0114J, DATED 01/26/2023

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
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700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills

Digitally signed by James Mills
DN: C=James Mills, E=mailto:jmills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:09:31-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

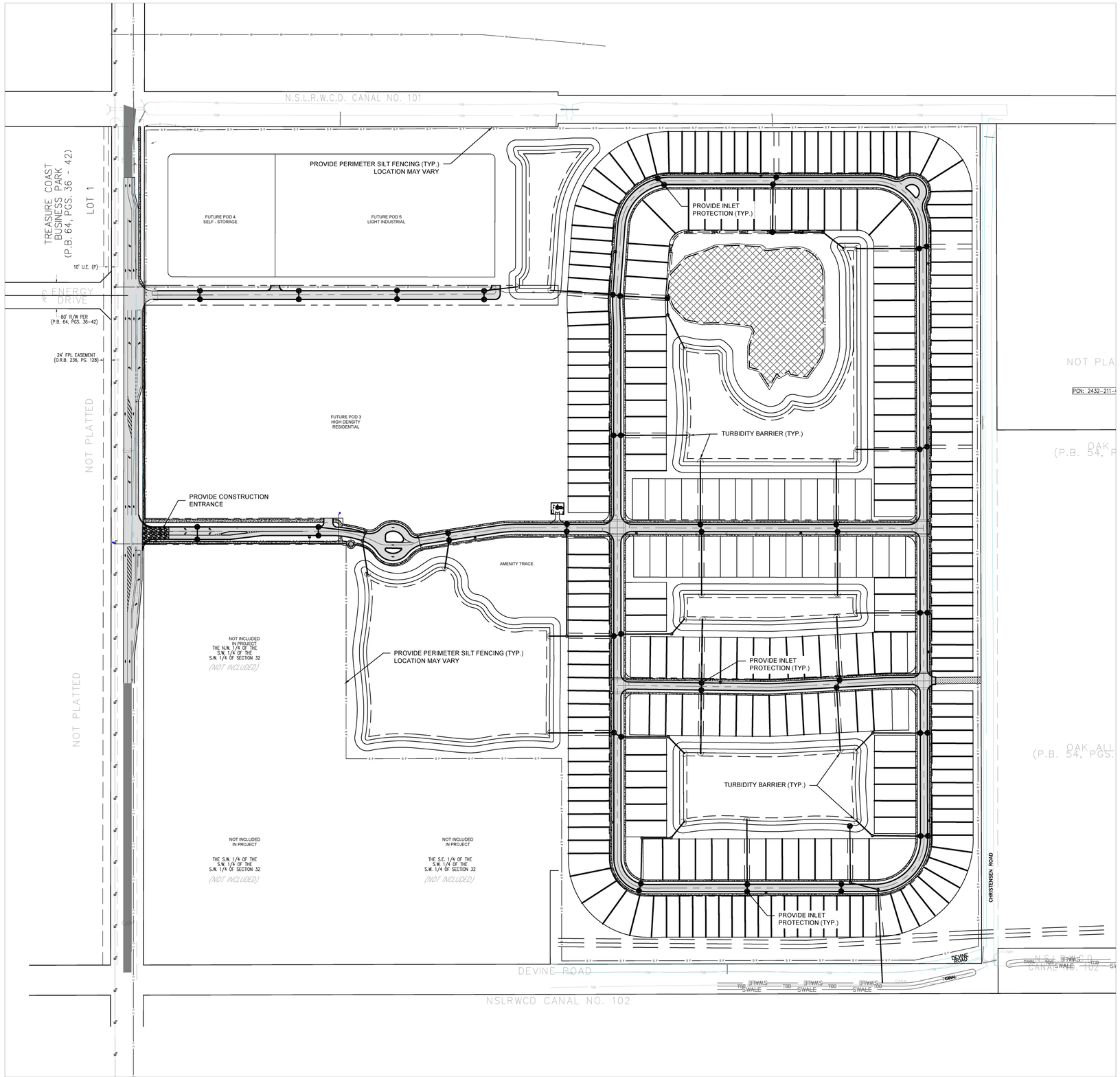
SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: OFF-SITE IMPROVEMENTS (SELVITZ RD.)

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-7

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-15 STORMWATER POLLUTION PREVENTION & EROSION CONTROL PLAN.dwg TIME: 12:17 PM



N

0 125 250 500 Feet

1" = 250'

LEGEND:

- PROPERTY LINE
- PROPOSED LOT LINES
- PROPOSED UTILITY/DRAINAGE EASEMENT
- PROPOSED STORMWATER MANAGEMENT
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED STORMWATER PIPE
- PROPOSED INLET PROTECTION
- S F — PROPOSED SILT FENCE / TURBIDITY CURTAIN

CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF FORT PEIRCE CODE OF ORDINANCES.
2. TRANSFORMER AND UTILITY CONDUIT PLACEMENT & ELEVATION TO BE COORDINATED WITH FORT PIERCE UTILITIES AUTHORITY (FPUA) AND OWNER.
3. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, AND INVERTS OF ALL UTILITIES. NOTIFY E.O.R. OF ANY DISCREPANCIES.
4. ALL PIPE ELEVATIONS SHALL BE FIELD VERIFIED BEFORE COMMENCEMENT.
5. ALL PROPOSED AND EXISTING UTILITIES SHALL MAINTAIN MIN. COVER REQUIREMENTS OF FORT PIERCE UTILITIES AUTHORITY (FPUA)
6. SOD ALL DISTURBED AREAS.
7. THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE COUNTY'S RIGHT-OF-WAY.
8. TRUCKS ENTERING ROADWAY" SIGN SHALL NE INSTALLED FACING BOTH DIRECTIONS IN ADVANCED OF CONSTRUCTION ACCESS, MUTCD STANDARDS
9. CONTRACTOR TO PROVIDED INLET PROTECTIONS WHERE NECESSARY FOR EACH PHASE OF CONSTRUCTION. REFER TO SHEET C-8 & C-9 FOR DETAILS

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James Mills

Digitally signed by James Mills
DN: CN=James Mills, E=mills@millsshortassociates.com, G=James, SN=Mills, C=US
Date: 2025.05.15 13:09:33-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES

SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: STORMWATER POLLUTION PREVENTION & EROSION CONTROL PLAN

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO.

C-8

05/15/2025

FILE: C:\Users\devin\Mills, Short & Associates\Common - Documents_Projects\24-1600 Selvitz Road\CADD\Civil Sheets\C-16 STORMWATER POLLUTION PREVENTION & EROSION CONTROL DETAILS.dwg TIME: 12:18 PM DATE: 10/7/2025

EROSION CONTROL NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.

2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.

3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.

4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.

6. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.

7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL.

8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM WATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.

10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.

11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.

12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.

14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NUMBERS 101, 102 AND 103 OF F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS AND COUNTY PERMITS.

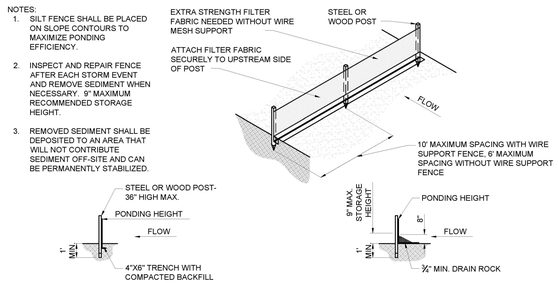
15. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.

16. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.

17. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.

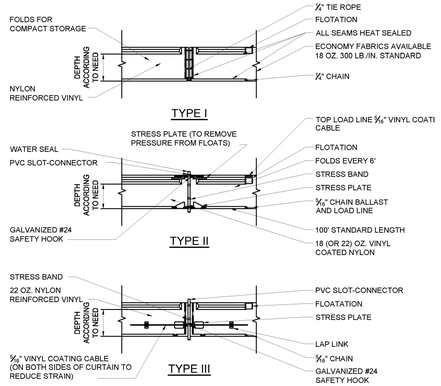
18. NOI TO BE POSTED ON SITE.

19. DEWATERING ACTIVITIES:
- A - DISCHARGE MUST NOT EXCEED STATE WATER QUALITY STANDARDS.
- B - CONTRACTOR MUST HAVE A TRANSFERABLE SJRWMD CONSUMPTIVE USE PERMIT KNOWN AS A "NOTICED GENERAL PERMIT FOR SHORT TERM CONSTRUCTION DE-WATERING".
- C - NO HYDRAULIC PUMPS MAY BE USED FOR DEWATERING UNLESS APPROVED BY THE WATER MANAGEMENT DISTRICT FOR THAT AREA.
- D - NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER.



TRENCH DETAIL — INSTALLATION WITHOUT TRENCHING

TYPE IV SILT FENCE-N.T.S.



TYPE I

TYPE I. DOT FOR WATERS WITH LOW CURRENTS (NO MORE THAN ONE FOOT PER SECOND) AND LIGHT WINDS: LAKES, PONDS, SMALL STREAMS, MARSHES. FLEXIBLE TOP FLOTATION SECTION WITH ENCAPSULATED EPS FOAM FLOTATION LOGS (6"X6"X4')

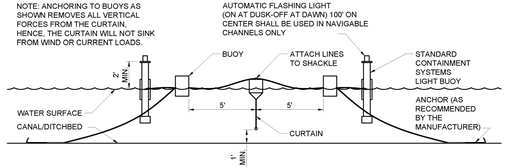
TYPE II

TYPE 2. DOT FOR HIGHER CURRENT WATERS (UP TO FIVE FEET PER SECOND); DEEPER LAKES, STREAMS, INTERCOASTAL AND TIDAL AREAS. INCLUDES AN ENCAPSULATED STEEL LOAD CABLE ALONG TOP OF BARRIER AND 8"X8"X4' FLOTATION LOGS. WEAR STRESS POINTS ARE REINFORCED WITH SHIELDS.

TYPE III

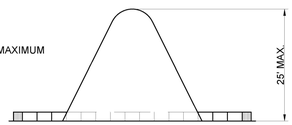
TYPE 3. DOT IS SIMILAR TO TYPE 2. DOT EXCEPT THAT POLYPROPYLENE FILTER FABRIC IS PERMANENTLY INSERTED INTO THE BARRIER SKIRT TO MEET SOME STATE'S SPECIFICATIONS.

BLOW-UP OF SHACKLE CONNECTION

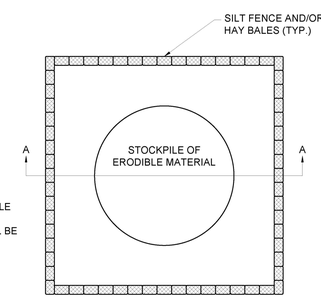


ORIENTATION WHEN INSTALLED (TIDAL SITUATION-TYPE III)-N.T.S.

NOTE:
ALL STOCKPILES SHALL BE A MAXIMUM OF 25' HIGH.



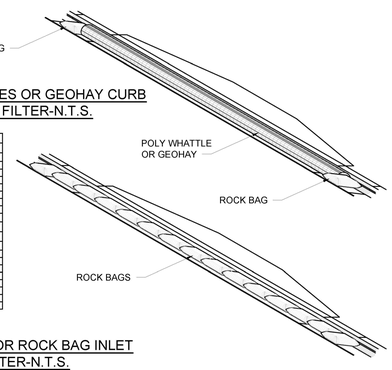
SECTION A-A



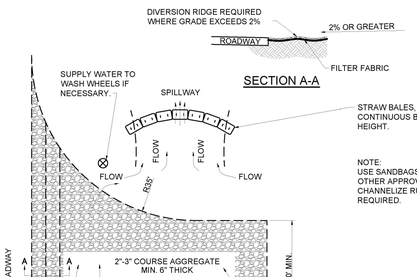
NOTE:
FOR STOCKPILING ERODIBLE MATERIAL FOR EXTENDED PERIODS, THE AREA SHALL BE SEEDED AND MULCHED.

SEDIMENT CONTROL DETAIL FOR STOCKPILING OF ERODIBLE MATERIAL-N.T.S.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	600 P.S.I.
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	0.55 SEC. -1
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	430 P.S.I.
TRAPEZOID TEAR	ASTM D-4533	95 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	1.5 SEC. -1



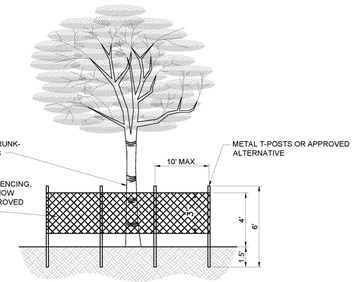
SOCK-PIPE OR ROCK BAG INLET FILTER-N.T.S.



PLAN

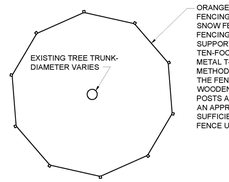
NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT-N.T.S.



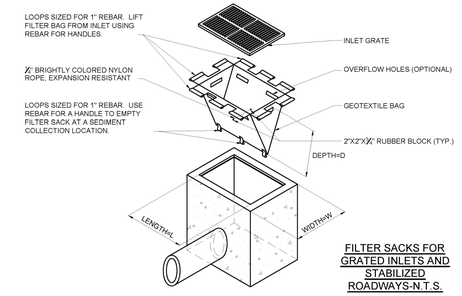
ELEVATION

NOTES:
1. ALL TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES.
2. UNDERGROUND UTILITY LINES SHALL BE ROUTED AROUND EXISTING TREES TO THE OUTSIDE OF THE DRIPLINE WHERE ABLE.
3. INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEMS OF EXISTING TREES.
4. FENCE/BARRICADE SHALL BE INSTALLED AT PERIMETER OF ALL TRESS OR GROUP OF TREES TO BE PRESERVED. FENCE SHALL BE MAINTAINED DURING CONSTRUCTION.
5. DO NOT PARK HEAVY EQUIPMENT ON TREE ROOTS. DO NOT ADD FILL 4" TO 6" AROUND TREE. ALL WORK WITHIN THE CRZ MUST BE DONE BY HAND.

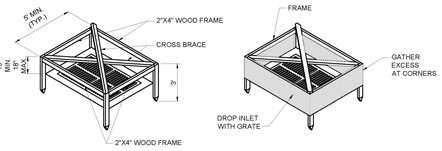


PLAN

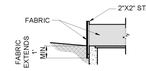
PROTECTIVE FENCING FOR TREES-N.T.S.



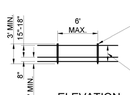
FILTER SACKS FOR GRATED INLETS AND STABILIZED ROADWAYS-N.T.S.



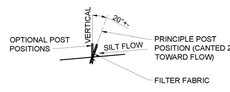
VIEW OF FRAME WITHOUT SILT FENCE — VIEW OF FRAME WITH SILT FENCE



SILT FENCE INLET PROTECTION-N.T.S.



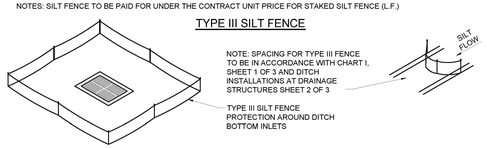
ELEVATION



SECTION

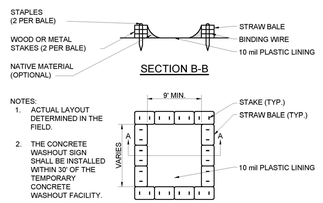
NOTES: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (L.F.)

TYPE III SILT FENCE



DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS-N.T.S.



SECTION B-B

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

PLAN

TYPE "ABOVE GRADE" WITH STRAW BALES

CONCRETE & STUCCO WASTE MANAGEMENT-N.T.S.

Mills, Short & Associates
WEBSITE: www.MillsShortAssociates.com
PHONE: 772.226.7282
C.A. #: 30698
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960

James Mills

Digitally signed by James Mills
DN: CN=James Mills, E=mills@millsshortassociates.com, O=James, SN=Mills, C=US
Date: 2025.05.15 13:09:36-04'00'

JAMES W. MILLS LICENSE No. 74145 STATE OF FLORIDA PROFESSIONAL ENGINEER

ISSUE	DATE	COMMENTS

SYMPHONY LAKES
SELVITZ ROAD
CITY OF FORT PEIRCE, FL 34981

THIS SHEET: STORMWATER POLLUTION PREVENTION & EROSION CONTROL DETAILS

DRAWN BY: DCC
CHECKED BY: JWM
APPROVED BY: JWM
SCALE: SEE SHEET

PROJ. NO. 24-1600
DATE 10-02-2024
SHEET NO. C-9