

LEGAL DESCRIPTION

POINT ON THE NORTH LINE OF SAID SECTION 7; THENCE NORTH 89044' 51" WEST, ALONG SAID NORTH LINE, A DISTANCE OF 927.09 FEET; TO THE NORTHEAST CORNER WELL SITE NO. 1 AS RECORDED IN OFFICIAL RECORDS BOOK 3224, PAGE 461, OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA; THENCE ALONG THE LIMITS OF SAID WELL SITE NO, I THE FOLLOWING COURSES: THENCE SOUTH 00' 15' 09" WEST, A DISTANCE OF 46. 00 FEET; THENCE NORTH 89044' 51" WEST, A DISTANCE OF 40. 00 FEET; THENCE NORTH 00015' 09" EAST, A DISTANCE OF 46. 00 FEET TO THE NORTH LINE OF SAID SECTION 7 AND THE NORTHWEST CORNER OF SAID WELL SITE NO. 1; THENCE NORTH 89044'5 1" WEST, ALONG SAID NORTH LINE, A DISTANCE OF 390. 30 FEET; TO THE NORTHEAST CORNER OF WELL SITE NO. 2 AS RECORDED IN OFFICIAL RECORDS BOOK 3224, PAGE 461, OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA; THENCE ALONG THE LIMITS OF SAID WELL SITE 2 THE FOLLOWING COURSES; THENCE SOUTH 00015' 0911WEST, A DISTANCE OF 49.00 FEET; THENCE NORTH 89044'51" WEST, A DISTANCE OF 40.00 FEET; THENCE NORTH 00015'09" EAST, A DISTANCE OF 49.00 FEET TO THE NORTH LINE OF SAID SECTION 7, AND THE NORTHWEST CORNER OF SAID WELL SITE NO. 2: THENCE NORTH 89° 44'51" WEST, ALONG SAID NORTH LINE, A DISTANCE OF 516.02 FEET; TO THE NORTHEAST CORNER OF WELL SITE NO. 3 AS RECORDED IN OFFICIAL

RECORDS BOOK 3224, PAGE 463, OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA; THENCE ALONG THE LIMITS OF SAID WELL SITE NO. 3 THE FOLLOWING COURSES; THENCE SOUTH 00015' 09" WEST, A DISTANCE OF 48. 00 FEET; THENCE NORTH 89044'51" WEST, A DISTANCE OF 40.00 FEET; THENCE NORTH 00015'0911 EAST, A DISTANCE OF 48. 00 FEET TO THE NORTH LINE OF SAID SECTION 7, AND THE NORTHWEST CORNER OF SAID WELL SITE NO. 3; THENCE NORTH 89044' 51" WEST, ALONG SAID NORTH LINE, A DISTANCE OF 18. 16 FEET TO A 411 x 411 CONCRETE MONUMENT MARKING THE SOUTH 1/4 CORNER OF SECTION 6, TOWNSHIP 18 SOUTH, RANGE 34 EAST, VOLUSIA COUNTY, FLORIDA; THENCE NORTH 89045' 1011 WEST, ALONG THE NORTH LINE OF SAID SECTION 7, A DISTANCE OF 417. 17 FEET TO THE NORTHEAST CORNER OF WELL SITE NO. 4 AS RECORDED IN OFFICIAL RECORDS BOOK 3224, PAGE 463, OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA; THENCE ALONG THE LIMITS OF SAID WELL SITE NO. 4 THE FOLLOWING COURSES; THENCE SOUTH 00014' 50" WEST, A DISTANCE OF 50.00 FEET; THENCE NORTH 89045' 1011 WEST, A DISTANCE OF 40.00 FEET; THENCE NORTH 00- 14-5011 EAST, A DISTANCE OF 50. 00 FEET TO THE NORTH LINE OF SAID SECTION 7, AND THE NORTHWEST CORNER OF SAID WELL SITE NO. 4; THENCE NORTH 89045' 10" WEST ALONG SAID NORTH LINE OF SAID SECTION 7, A DISTANCE OF 2525.30 TO THE POINT OF BEGINNING.

CONTAINING 877.50+/- ACRES MORE OR LESS AND BEING IN VOLUSIA COUNTY, FLORIDA.

GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY2023-2024 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS). STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRS ARE AVAILABLE AR THE FOLLOWING WEBSITE

HTTP://WWW.FDOT.GOV/DESIGN/STANDARDPLANS

GOVERNING SPECIFICATIONS:

CITY OF EDGEWATER PUBLIC WORKS DEPARTMENT ENGINEERING STANDARDS FOR LAND DEVELOPMENT (MOST CURRENT EDITION). AS AMENDED BY CONTRACT DOCUMENTS.

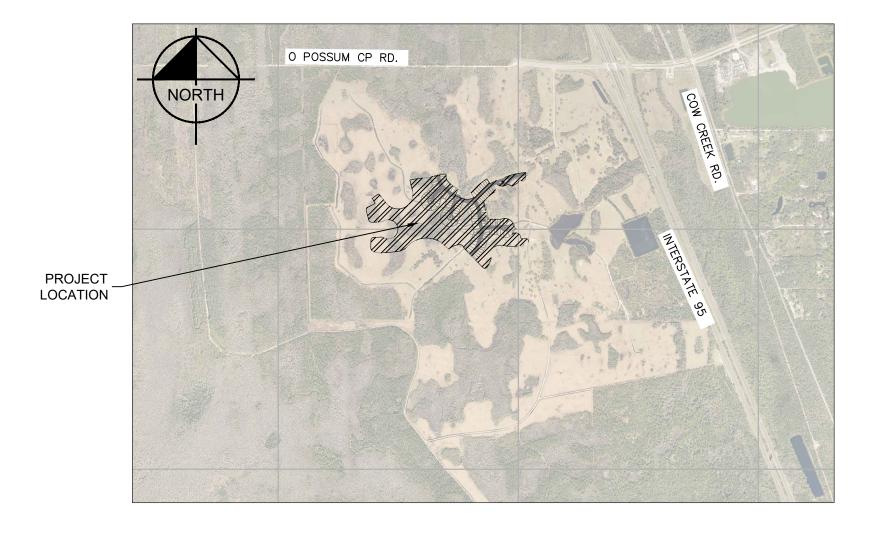
CONSTRUCTION PLANS

FOR

DEERING PARK CENTER - PHASE 1B

LOCATED IN

EDGEWATER, FLORIDA SECTION 07, TOWNSHIP 18S, RANGE 34E



VICINITY MAP

PROJECT TEAM

OWNER/DEVELOPER DAVID FUECHTMAN FARMTON DEERING PARK, LLC 410 NORTH MICHIGAN AVE., ROOM 590 CHICAGO, ILLINOIS 60611-4252

SURVEYOR

(321) 270-0440

MICHAEL GOODNIGHT, P.S.M.

GEOPOINT SURVEYING, INC.

ALTAMONTE SPRINGS, FL 32701

PLANNER/L.A. MARQUIS LATIMER & HALBACK INC. 34 CORDOVA ST. ST AUGUSTINE, FL 32084 (904) 825-6747

GEOTECHNICAL CODY D WILSON, P.E. UNIVERSAL ENGINEERING SCIENCES 528 NORTHLAKE BOULEVARD, STE 1040 911 BEVILLE ROAD SOUTH DAYTONA, FL 32119

ADDITIONAL GOVERNING AGENCIES CONTACTS:

(386) 756-1105

PLANNING/ZONING EDGEWATER CITY PLANNING ZONING 139 E PARK AVE EDGEWATER, FL 32132 (386) 424-2412

FIRE CHIEF CITY OF EDGEWATER FIRE RESCUE JEFFREY J. LARISCY 1605 SOUTH RIDGEWOOD AVENUE EDGEWATER, FL 32132 (386) 424-2400

STORMWATER CITY OF EDGEWATER PUBLIC WORKS 409 MANGO TREE DR. EDGEWATER, FL 32132 (386) 424-2400 EXT 4007

CIVIL ENGINEER

7341 OFFICE PARK PLACE

MELBOURNE, FL 32940

(321) 225-0642

KIMLEY-HORN AND ASSOCIATES, INC.

ENGINEERING EDGEWATER CITY ENGINEER 409 MANGO TREE DR EDGEWATER, FL 32132 (386) 424-2479

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IT'S THE LAW! **DIAL 811** SUNSHINE STATE ONE CALL OF FLORIDA, INC. /ERTICAL DATUM

ELEVATIONS SHOWN HEREON ARE BASED ON THE

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

SHEET NUMBER C-000

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL RELATIVE CITY EDGEWATER ENGINEERING STANDARDS FOR LAND DEVELOPMENT AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND FDEP REGULATIONS, EXCEPT AS MODIFIED HEREIN.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, NOC'S AND INSURANCE REQUIRED FOR THE WORK.
- 3. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION OF THE SITE PRIOR TO THE BEGINNING OF THE WORK. CONTRACTOR SHALL INFORM THE OWNER, COMPANY REPRESENTATIVE, CEC, UTILITY AUTHORITY AND INTERESTED AGENCIES AT LEAST 48 HOURS PRIOR TO THE SCHEDULED INSPECTION.
- 4. THE LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE FROM THE SURVEY PROVIDED BY GEOPOINT SURVEYING, INC. ON DECEMBER 2, 2020. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM, IN THE FIELD, THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.
- 5. CONTRACTOR SHALL LOCATE, VERIFY AND IDENTIFY ALL EXISTING UNDERGROUND UTILITIES SHOWN, OR NOT SHOWN, ON THE PLANS PRIOR TO ANY EXCAVATING ACTIVITIES.
- 6. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEWLY CONSTRUCTED UTILITIES DURING THE CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE UTILITY COMPANY AND THE ENGINEER.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY HIS OPERATIONS.
- 8. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH OTHER WORK WHICH MAY BE ONGOING ADJACENT TO, OR AFFECTING, THIS CONSTRUCTION. CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS AND ALL AFFECTED UTILITY COMPANIES.
- 9. CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES AND THE ENGINEER 48 HOURS PRIOR TO THE INITIATING OF ANY EXCAVATION ACTIVITIES, OR AS SPECIFIED BY THE UTILITY COMPANY AND ANY PERMITS REQUIRED FOR THE WORK.
- 10. CONTRACTOR SHALL PROTECT EXISTING SURVEY MARKERS, MONUMENTS, ETC. DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE/REPLACE ANY SURVEY MARKERS DAMAGED DURING CONSTRUCTION ACTIVITIES.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL/DISPOSAL OF ANY UNSUITABLE MATERIAL FROM THE CONSTRUCTION OPERATION, FURNISHING AND COMPACTING SUITABLE REPLACEMENT BACKFILL MATERIAL. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 12. CONSTRUCTION WARNING SIGNS SHALL BE MOUNTED AND ERECTED BEFORE CONSTRUCTION CAN COMMENCE. THESE, AND ALL TRAFFIC CONTROL DEVICES, SHALL FOLLOW THE STANDARDS SET FORTH BY THE MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD INDEX.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING THE AREA OF CONSTRUCTION AND SAFELY ROUTING ALL VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARLY MARKED AT ALL TIMES.
- 14. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE EROSION AND TURBIDITY CONTROLS IN ACCORDANCE WITH FDEP DURING AND FOLLOWING CONSTRUCTION. UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED TO AVOID ADVERSE ENVIRONMENTAL IMPACTS TO OFF-SITE PROPERTY AND DRAINAGE SYSTEMS
- 15. CONTRACTOR SHALL HYDRO SEED AND MULCH (OR SOD AS APPLICABLE) ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT ACCORDING TO LOCAL
- 16. CONTRACTOR SHALL MAINTAIN "AS-BUILT" INFORMATION ON A REGULAR BASIS. CONTRACTOR SHALL EMPLOY THE SERVICES OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO DETERMINE ALL "AS-BUILT" INFORMATION. WITHIN 14 DAYS OF THE COMPLETION OF THE WORK, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPIES AND THE DIGITAL CAD FILE OF THE "AS-BUILT" DRAWINGS AND SUPPORTING SURVEY RECORDS TO THE ENGINEER. "AS-BUILT" DRAWINGS ARE TO BE IN ACCORDANCE WITH THE CITY EDGEWATER REQUIREMENTS.
- 17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRODUCE, AS-BUILT DRAWINGS FOR ANY JURISDICTIONAL AGENCIES AS MAY BE REQUIRED FOR PROJECT CERTIFICATION.
- 18. CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS NOTICE OF ALL MEETINGS OR TESTING MEASURES REQUIRED TO BE WITNESSED BY THE CONSTRUCTION ACTIVITIES RELATED TO THE WORK.
- 19. THE CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF STANDARD SHOP DRAWINGS AND MANUFACTURER'S CATALOGS WITH THE MODEL NUMBER OR TYPE OF THE ITEM ENCIRCLED OR OTHERWISE DESIGNATED. THE SUBMITTALS SHALL BEAR THE APPROVAL OF THE UNDERGROUND UTILITY CONTRACTOR. ALL UTILITY SHOP DRAWINGS WILL NEED TO BE APPROVED BY THE ENGINEER OF RECORD AND CITY OF EDGEWATER PRIOR TO
- 20. THE CONTRACTOR SHALL SUBMIT ONE SET OF COMPLETE DETAILED SHOP DRAWINGS FOR ALL SANITARY MANHOLES, WET WELLS, OTHER CASTINGS, AND PUMPS. THE SUBMITTALS SHALL BEAR THE APPROVAL OF THE UNDERGROUND UTILITY CONTRACTOR ON EACH SHEET. A COMPLETE SET OF THE LIFT STATION ELECTRICAL SHOP DRAWINGS IS ALSO REQUIRED IF APPLICABLE. ALL UTILITY SHOP DRAWINGS WILL NEED TO BE APPROVED BY THE ENGINEER OF RECORD AND CITY OF EDGEWATER PRIOR TO
- 21. CONTRACTOR SHALL CONTAIN ALL DEBRIS AS A RESULT OF CONSTRUCTION WITHIN ONE OR MORE DUMPSTER THAT ARE REQUIRED TO REMAIN ONSITE THROUGHOUT ALL PHASES OF CONSTRUCTION AND BE EMPTIED AT PERMITTED LANDFILLS AND RETURNED TO THE SITE AS NEEDED TO AVOID SPILLS AND CONTAMINATION.

GENERAL UTILITY NOTES

- 1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
- 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
- 4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- 5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH. IN THE OPINION OF THE ENGINEER OR OWNER. RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- 7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- 9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY
- 10. 10. IF THERE IS CONFLICT BETWEEN THESE STANDARDS AND THE CITY OF EDGEWATER STANDARD CONSTRUCTION DETAILS, THE MORE STRINGENT SHALL APPLY.

WATER / SEWER SEPARATION:

- SANITARY SEWERS (INCLUDING LATERALS), FORCE MAINS, AND STORM SEWERS SHALL CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.
- 2. A FULL, UNCUT LENGTH OF WATER MAIN PIPE, AT LEAST 20 FEET IN LENGTH, SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER PIPING, REGARDLESS OF THE VERTICAL SEPARATION.
- WATER MAINS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM PIPES CARRYING RAW WASTEWATER. AND 10 FEET HORIZONTALLY FROM PIPES CARRYING RECLAIMED WATER. THE DISTANCE SHALL BE MEASURED FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE. WATER MAINS SHALL BE LAID TO PROVIDE A SEPARATION OF AT LEAST 12 INCHES BETWEEN THE BOTTOM OF WATER MAIN AND THE TOP OF SEWER OR RECLAIMED WATER PIPE. WATER MAINS SHALL CROSS ABOVE SEWER OR RECLAIMED WATER PIPE WITH A VERTICAL SEPARATION OF AT LEAST 12 INCHES.

WASTEWATER COLLECTION SYSTEMS

- 1. MATERIALS AND INSTALLATION FOR WASTEWATER COLLECTION SYSTEM INCLUDING, BUT NOT LIMITED TO, GRAVITY SEWERS, MANHOLES, SERVICE LATERALS, FORCEMAINS. LIFT STATIONS, AND TESTING REQUIREMENTS SHALL CONFORM TO THE CITY OF EDGEWATER UTILITY SYSTEMS DEPARTMENT UTILITY STANDARDS MANUAL AND THE CITY OF EDGEWATER LAND DEVELOPMENT CODE AND ALL APPLICABLE FDEP REGULATIONS. ALL PVC GRAVITY SEWER SHALL BE SDR-26.
- 2. WYE GRAVITIES FOR LATERAL SERVICE SHALL BE SIX (6) INCHES I.D.
- 3. PLUGS SHALL BE OF THE SAME MATERIAL AS THE PIPE, GASKETED, AND SHALL WITHSTAND THE REQUIRED TEST PRESSURE.
- 4. LEAKAGE TEST SHALL BE IN ACCORDANCE WITH CITY OF EDGEWATER AND AWWA C-600, SECTION 5.2.

GENERAL SEPARATION NOTE:

1. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 12" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE)

WATER DISTRIBUTION SYSTEMS

1. MATERIALS AND INSTALLATION FOR WATER DISTRIBUTION SYSTEM INCLUDING, BUT NOT LIMITED TO, PIPE FITTINGS, VALVES, JOINT RESTRAINTS, FIRE HYDRANTS, SERVICE LINES, TESTING, AND DISINFECTION SHALL CONFORM TO THE CITY OF EDGEWATER UTILITY SYSTEMS DEPARTMENT UTILITY STANDARDS MANUAL AND THE CITY OF EDGEWATER LAND DEVELOPMENT CODE AND ALL APPLICABLE FDEP REGULATIONS. ALL PVC PIPE SHALL BE SDR-18 UNLESS SPECIFIED OTHERWISE.

WATER AND SEWER UTILITY NOTES

- THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
- 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
- 4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- 5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- 7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- 9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
- 10. IF THERE IS CONFLICT BETWEEN THESE STANDARDS AND THE CITY OF EDGWATER STANDARD CONSTRUCTION DETAILS, THE MORE STRINGENT SHALL APPLY.

GENERAL STRIPING AND SIGNAGE NOTES:

1. ALL STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH FDOT AND LATEST EDITION OF MUTCD.

PAVING, GRADING AND DRAINAGE NOTES

DEVELOPMENT LOCAL REGULATIONS.

- 1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- 2. 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. 3. ALL PAVING. CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN CITY'S RIGHT-OF-WAY

SHALL BE IN ACCORDANCE WITH CITY OF EDGEWATER ENGINEERING STANDARDS FOR LAND

- 4. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- 5. 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.
- 6. 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.
- 7. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- 8. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- 10. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE
- 11. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND 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.
- 12. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- 13. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 14. 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.
- 15. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- 16. 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.
- 17. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302. FLORIDA ADMINISTRATIVE CODE.
- 18. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- 19. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
- 20. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 21. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

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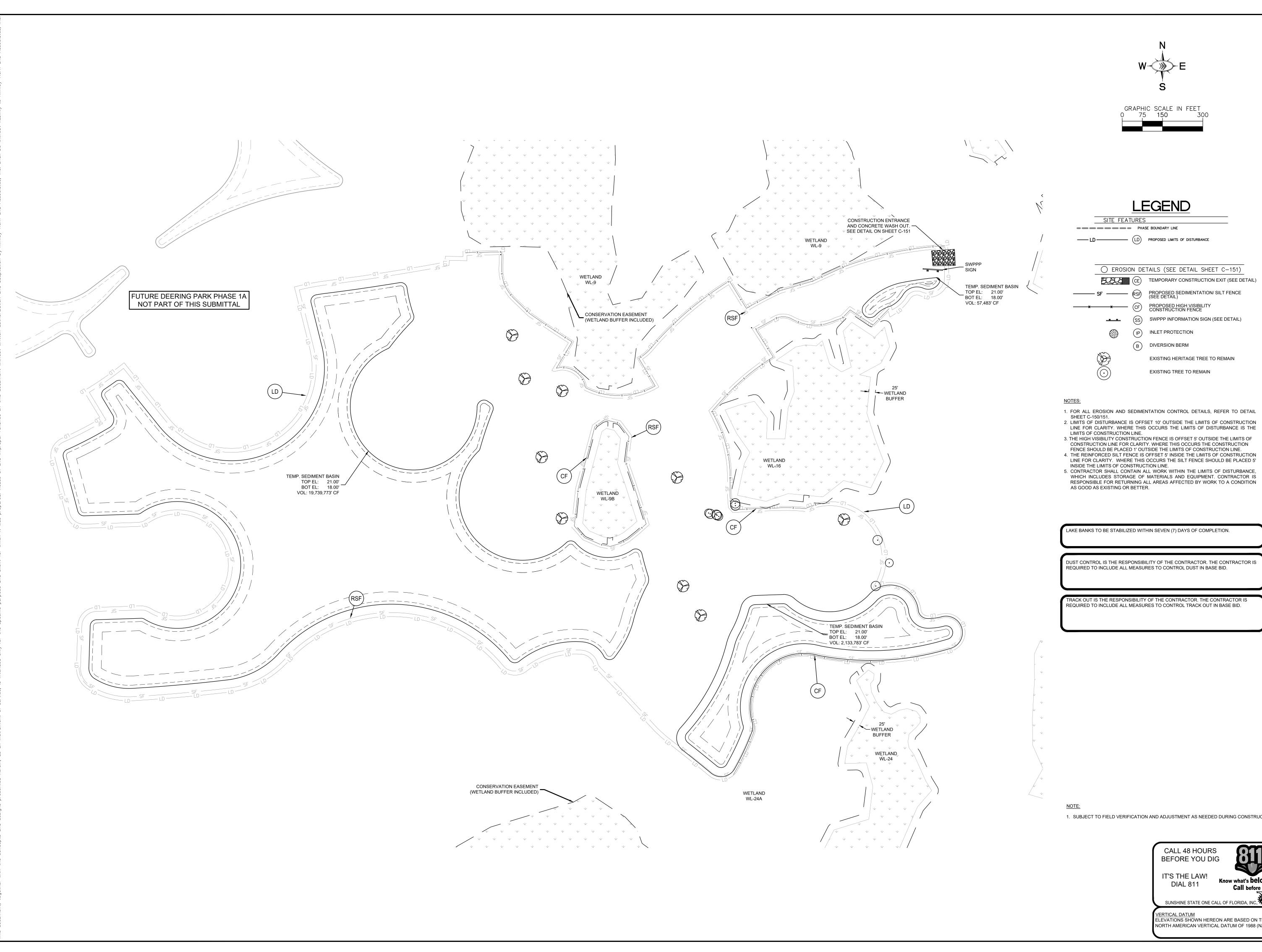
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ERTICAL DATUM ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

CALL 48 HOURS BEFORE YOU DIG IT'S THE LAW! DIAL 811 SUNSHINE STATE ONE CALL OF FLORIDA, INC.





O EROSION DETAILS (SEE DETAIL SHEET C-151)

EXISTING TREE TO REMAIN

- 4. THE REINFORCED SILT FENCE IS OFFSET 5' INSIDE THE LIMITS OF CONSTRUCTION LINE FOR CLARITY. WHERE THIS OCCURS THE SILT FENCE SHOULD BE PLACED 5'

5. CONTRACTOR SHALL CONTAIN ALL WORK WITHIN THE LIMITS OF DISTURBANCE, WHICH INCLUDES STORAGE OF MATERIALS AND EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY WORK TO A CONDITION

LAKE BANKS TO BE STABILIZED WITHIN SEVEN (7) DAYS OF COMPLETION.

TRACK OUT IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO INCLUDE ALL MEASURES TO CONTROL TRACK OUT IN BASE BID.

1. SUBJECT TO FIELD VERIFICATION AND ADJUSTMENT AS NEEDED DURING CONSTRUCTION.

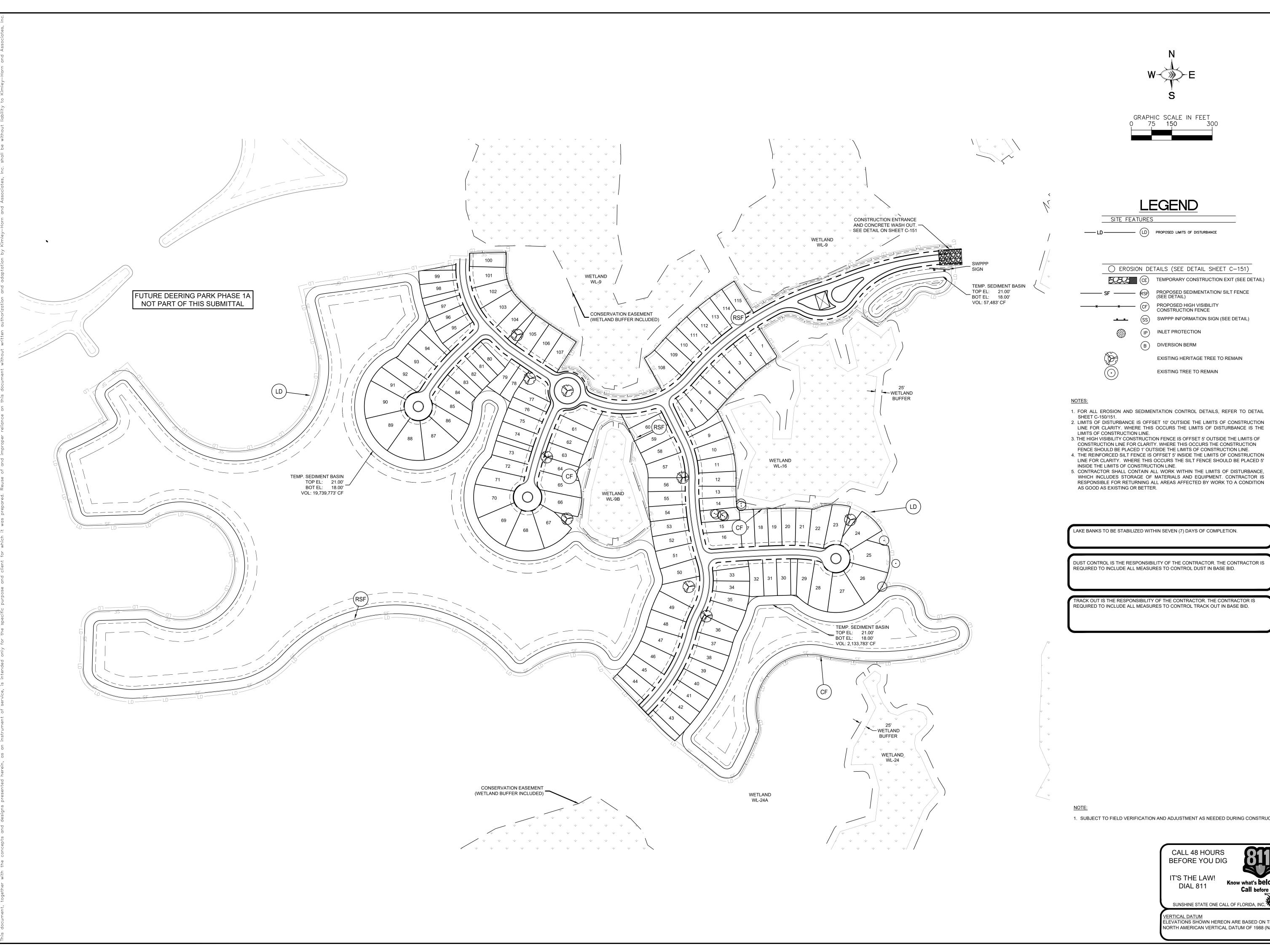
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VERTICAL DATUM ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88). SHEET NUMBER

C-100

SWPPP



LEGEND

O EROSION DETAILS (SEE DETAIL SHEET C-151)

PROPOSED SEDIMENTATION/ SILT FENCE (SEE DETAIL) PROPOSED HIGH VISIBILITY CONSTRUCTION FENCE

SWPPP INFORMATION SIGN (SEE DETAIL) INLET PROTECTION

B DIVERSION BERM EXISTING HERITAGE TREE TO REMAIN

EXISTING TREE TO REMAIN

- 1. FOR ALL EROSION AND SEDIMENTATION CONTROL DETAILS, REFER TO DETAIL SHEET C-150/151.

- 4. THE REINFORCED SILT FENCE IS OFFSET 5' INSIDE THE LIMITS OF CONSTRUCTION
- LINE FOR CLARITY. WHERE THIS OCCURS THE SILT FENCE SHOULD BE PLACED 5'
- 5. CONTRACTOR SHALL CONTAIN ALL WORK WITHIN THE LIMITS OF DISTURBANCE, WHICH INCLUDES STORAGE OF MATERIALS AND EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY WORK TO A CONDITION

LAKE BANKS TO BE STABILIZED WITHIN SEVEN (7) DAYS OF COMPLETION.

DUST CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO INCLUDE ALL MEASURES TO CONTROL DUST IN BASE BID.

TRACK OUT IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO INCLUDE ALL MEASURES TO CONTROL TRACK OUT IN BASE BID.

1. SUBJECT TO FIELD VERIFICATION AND ADJUSTMENT AS NEEDED DURING CONSTRUCTION.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! **DIAL 811**

SUNSHINE STATE ONE CALL OF FLORIDA, INC. VERTICAL DATUM ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).

SHEET NUMBER C-101

SWPPP

Section 1	PROJECT NAME AND LOCATION INFORMATION:	DEERING PARK PHASE 1A, EDGEWATER, FLORIDA				
Section 2	DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY:	CONSTRUCTION ACTIVITIES CONSIST OF THE DEVELOPMENT OF A 78.81 AC RESIDENTIAL PROPERTY TOTALING 106 UNITS WITHIN THE CITY OF EDGEWATER, FLORIDA.				
Section 3	DESCRIBE THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:	- 0-5 DAYS - SITE PREP AND STABILIZED CONSTRUCTION ENTRANCE - 6-15 DAYS - INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS - 16-25 DAYS - CLEARING/GRUBBING OVER ALL AREAS - 16-120 DAYS - INSTALL STORMWATER RETENTION BASIN - 26-180 DAYS - SITE GRADING - 180-300 DAYS - INSTALL STORM SEWER AND UTILITIES - 301-365 DAYS - STABILIZE SITE				
Section 4 Section 5	TOTAL AREA OF THE SITE: TOTAL AREA OF THE SITE TO BE DISTURBED:	78.81 AC 77.1 AC				
Section 6	EXISTING DATA DESCRIBING THE SOIL OR QUALITY OF ANY STORMWATER DISCHARGE FROM THE SITE:	THE SOILS ON SITE ARE MOSTLY SAND, CONSISTING OF IMMOKALEE SAND, MYAKKA-MYAKKA WET FINE SANDS, MYAKKA-ST JOHNS COMPLEX, SAMSULA MUCK, AND SMYRNA-SMYRNA.				
Section 7	ESTIMATE THE DRAINAGE AREA SIZE FOR EACH DISCHARGE POINT:	78.81 AC				
Section 8	LATITUDE AND LONGITUDE OF EACH DISCHARGE POINT AND IDENTIFY THE RECEIVING WATER OR MS4 FOR	LAT: 28° 56' 40.3" N LON: 80° 58' 12.8" W				
Section 9	EACH DISCHARGE POINT: DISCHARGES FROM ONSITE TO OFFSITE RETENTION AREA THAT ULTIMATELY OUTFALLS TO I-95 BOX CULVERT GIVE A DETAILED DESCRIPTION OF ALL CONTROLS, BEST MANAGEMENT PRACTICES (BMPS) AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES SECTION. PROVIDE TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED. NOTE: ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN S. 62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, FDOT, FDEP, AND ANY SUBSEQUENT AMENDMENTS.					
Section 10	 INSTALL SILT FENCE(S) ON THE SITE (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE). PREPARE TEMPORARY PARKING AND STORAGE AREA. ORANGE PROTECTIVE FENCE AROUND ANY LAND TO BE PRESERVED IF NECESSARY, INCLUDING TREES/WETLANDS. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (SWALES, CHECK DAMS, ETC.). BEGIN CLEARING AND GRUBBING THE SITE. BEGIN GRADING THE SITE. DESCRIBE ALL TEMPORARY AND PERMANENT STABILIZATION PRACTICES. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, MULCHING, PERMANENT SEEDING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER					
Section 11	STRIPS, PROTECTION OF TREES, VEGETATIVE PRESERVATIONS, ETC. 1. 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 ONN EYEAR. 2. 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. 3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. 4. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROCACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. 5. ALL CLEARED AREAS WILL RECEIVE SEED AND MULCH WITHIN 7 DAYS IF NO CONSTRUCTION ACTIVITIES ARE TAKING PLACE OR PLANNED FOR 7 DAYS OR MORE AND/OR COMPLETION OF A PHASE OF GRADING. 6. VEGETATIVE COVER OR OTHER EROSION CONTROL DEVICES OR STRUCTURES USED TO MEET THESE REQUIREMENTS SHALL BE PROPERLY MAINTAINED DURING AND AFTER CONSTRUCTION DESCRIBE ALL STRUCTURAL CONTROLS TO BE IMPLEMENTED TO DIVERT STORMWATER FLOW FROM EXPOSED SOILS AND STRUCTURAL PRACTICES TO STORE FLOWS, RETAIN SEDIMENT ON-SITE OR IN ANY OTHER WAY LIMIT STORMWATER RUNOFF. THESE CONTROLS INCLUDE SILT FENCES, EARTH DIKES, DIVERSIONS, SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, COAGULATING AGENTS AND TEMPORARY OR PERMANENT SEDIMENT BASINS.					
	FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAR 2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUST CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY OF MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO SEDIMENT WILL BE PREVENTED FROM ENTERING ANY OF WATER INLETS THAT ARE MADE OPERABLE DURING CONSEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYAR OTHERWISE TREATED TO REMOVE SEDIMENT. 5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL METINAL SITE STABILIZATION OR AFTER THE TEMPORARY METINAL SITE STABILIZATION OR AFTER THE TEMPORARY METINAL SITE STABILIZATION AND EROSION AT ALL TIMES DUR 7. ALL STORM SEWER INLET GRATES TO BE COVERED WI 8. CUT AND FILL SLOPES TO BE CONSTRUCTED IN A MANNUSED WHERE NECESSARY. 9. SILT FENCE INSTALLATION SHALL BE IN ACCORDANCE 10. FLOATING TURBIDITY BARRIER INSTALLATION SHALL BE 103. 11. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL N BY VEGETATIVE COVER, OR OTHER ADEQUATE EROSION-LESS). SLOPES LEFT EXPOSED WILL, WITHIN SEVEN 97) WE GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH OR RESTRAIN EROSION. 12. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEIENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DECONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROL CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROL CON	EP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE (SES PLACE.) STED TO MEET FIELD CONDITIONS AT THE TIME OF GRADING OR DISTURBANCE OF EXISTING SURFACE BARRIERS SHALL BE CONSTRUCTED TO PREVENT TO ADJACENT PROPERTIES. TO R FILL SLOPES UNLESS CONTAINED WITHIN AN ME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL. STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM STRUCTION SHALL BE PROTECTED SO THAT NCE SYSTEM WITHOUT FIRST BEING FILTERED OR MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER EASURES ARE NO LONGER NEEDED. CONSTRUCTION SITES SHALL BE PROTECTED FROM ING CONSTRUCTION. TH FILTER FABRIC DURING CONSTRUCTION NER THAT WILL MINIMIZE EROSION. SILT FENCES TO BE WITH FOOT STANDARD INDEX NO. 102. 3E IN ACCORDANCE WITH THE FDOT STANDARD INDEX NO. OT BE GREATER THAN THE ANGLE WHICH CAN BE RETAINED CONTROL, DEVICES OR STRUCTURE (GENERALLY 4:1 OR MORKING DAYS OF COMPLETION OF ANY PHASE OF GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO DIMENT CONTROL STRUCTURES MUST BE PROVIDED TO EVELOPER, OWNER AND/OR CONTRACTOR SHALL BE DLS. SEDIMENT CONTROL MEASURES SHALL BE IN				
Section 12	WORKING CONDITION AT THE END OF EACH WORKING DAY. DESCRIBE ALL SEDIMENT BASINS TO BE IMPLEMENTED FOR AREAS THAT WILL DISTURB 10 OR MORE ACRES AT ONE TIME. THE SEDIMENT BASINS (OR AN EQUIVALENT ALTERNATIVE) SHOULD BE ABLE TO PROVIDE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE DRAINED. TEMPORARY SEDIMENT BASINS (OR AN EQUIVALENT ALTERNATIVE) ARE					
	RECOMMENDED FOR DRAINAGE AREAS UNDER 10 ACRES. REQUIRED= 77.10AC X 3,600CF/AC= 277,560CF. PROVIDED= 32,340,025 CF					

PERIMETER BERMS AND WET PONDS

Section 14	WASTE DISPOSAL, THIS MAY INCLUDE CONSTRUCTION DEBRIS, CHEMICALS, LITTER, AND SANITARY WASTES:	ALL CONSTRUCTION MATERIALS AND DEBRIS WILL BE PLACED IN A DUMPSTER AND HAULED OFF SITE TO A LANDFILL OR OTHER PROPER DISPOSAL SITE. NO MATERIALS WILL BE BURIED ON SITE.	
Section 15	OFFSITE VEHICLE TRACKING FROM CONSTRUCTION ENTRANCES/EXITS:	OFF SITE VEHICLE TRACKING OF SEDIMENTS AND DUS GENERATION WILL BE MINIMIZED VIA A ROCK CONSTRUCTION ENTRANCE, STREET SWEEPING AND THE USE OF WATER TO KEEP DUST DOWN.	
Section 16	THE PROPER APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES USED AT THE CONSTRUCTION SITE:	FLORIDA-FRIENDLY FERTILIZERS AND PESTICIDES WIL BE USED AT A MINIMUM AND IN ACCORDANCE WITH TH MANUFACTURER. S SUGGESTED APPLICATION RATES	
Section 17	THE STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES:	ALL PAINTS AND OTHER CHEMICALS WILL BE STORED A LOCKED COVERED SHED.	
Section 18	OTHER:	PORT-O-LETS WILL BE PLACED AWAY FROM STORM SEWER SYSTEMS, STORM INLET(S), SURFACE WATERS AND WETLANDS. NO VEHICLE MAINTENANCE SHALL BE CONDUCTED ON-SITE. A WASHDOWN AREA SHALL BE DESIGNATED AT ALL TIMES AND WILL NOT BE LOCATED IN ANY AREA THAT WILL ALLOW FOR THE DISCHARGE OF POLLUTED RUNOFF.	
Section 19	PROVIDE A DETAILED DESCRIPTION OF THE MAINTENANC CONTROLS TO ASSURE THAT THEY REMAIN IN GOOD AND		
	CONTROL FEATURES IN ACCORDANCE WITH THE TECHNIMORE STRINGENT: • SILT FENCE SHALL BE INSPECTED AT LEAST WEEKLY. AI SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY RIBARRIER. • MAINTENANCE SHALL BE PERFORMED ON THE ROCK EN SEDIMENT. • INLET(S)/OUTFALLS SHALL BE INSPECTED IMMEDIATELY TO THE FILTER INLETS, SILT FENCE, OR FILTER FABRIC SILE BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEE INSTRUCTIONS. • MULCH AND SOD THAT HAS BEEN WASHED OUT SHALL BE MAINTAIN ALL OTHER AREAS OF THE SITE WITH PROPER	NY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. EACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE ITRANCE WHEN ANY VOID SPACES ARE FULL OF AFTER EACH RAIN EVENT AND ANY REQUIRED REPAIRS HALL BE PERFORMED IMMEDIATELY. EDED SHALL BE RESEEDED PER MANUFACTURES' BE REPLACED IMMEDIATELY.	
Section 20	INSPECTIONS: DESCRIBE THE INSPECTION AND INSPECTI THE FDEP NPDES GENERIC PERMIT FOR STORMWATER D ACTIVITIES. QUALIFIED PERSONNEL WILL INSPECT ALL POINTS OF DIS THAT HAVE NOT BEEN STABILIZED, CONSTRUCTED AREA: THE SITE, AND ALL BMPS AT LEAST ONCE EVERY 7 CALEN RAINFALL EVENT THAT IS 0.5 INCHES OR GREATER. WHER	SCHARGE FROM LARGE AND SMALL CONSTRUCTION SCHARGES, ALL DISTURBED AREAS OF CONSTRUCTION S AND LOCATIONS WHERE VEHICLES ENTER AND EXIT NDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RE SITES HAVE BEEN FINALLY STABILIZED, SAID	
Section 21	INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVI		
Section 21	IDENTIFY AND DESCRIBE ALL SOURCES OF NON-STORMW GENERIC PERMIT FOR STORMWATER DISCHARGE FROM IT. 1. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATACTIVITIES. 2. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESS SWPPPP REQUIREMENTS. 3. DEWATERING FROM CONSTRUCTION ACTIVITIES SHALL SURFACE WATERS OF THE STATE OR MS4 SYSTEMS.	LARGE AND SMALL CONSTRUCTION ACTIVITIES. FER DISCHARGES, RAINFALL RUN OFF OR DEWATERING BARY TO MEET OR EXCEED STATE WATER QUALITY AND	
	ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:		
Section 22		ED IN THE SWPPP MUST SIGN THE FOLLOWING	

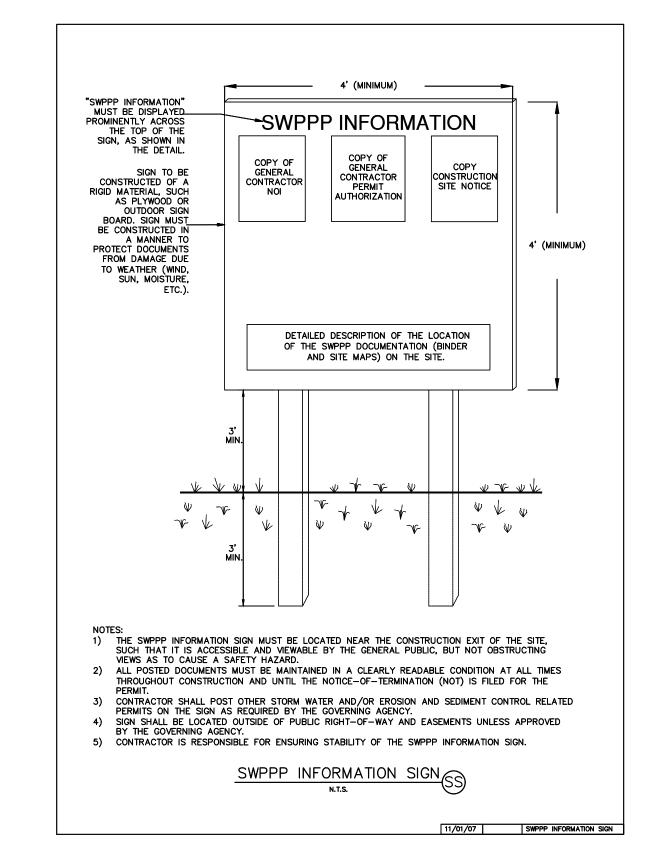
Section 22	Name	Title	Company Name, Address and Phone Number	Date

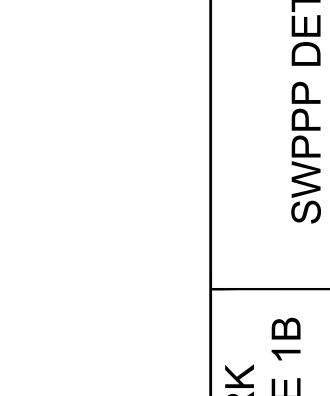
NOTE: CONTRACTOR SHALL FILL OUT THE RESPONSIBLE ENTITIES TABLE ABOVE.

RESPONSIBLE ENTITIES

THE SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE MEASURES IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWIN

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THERE UNDER."

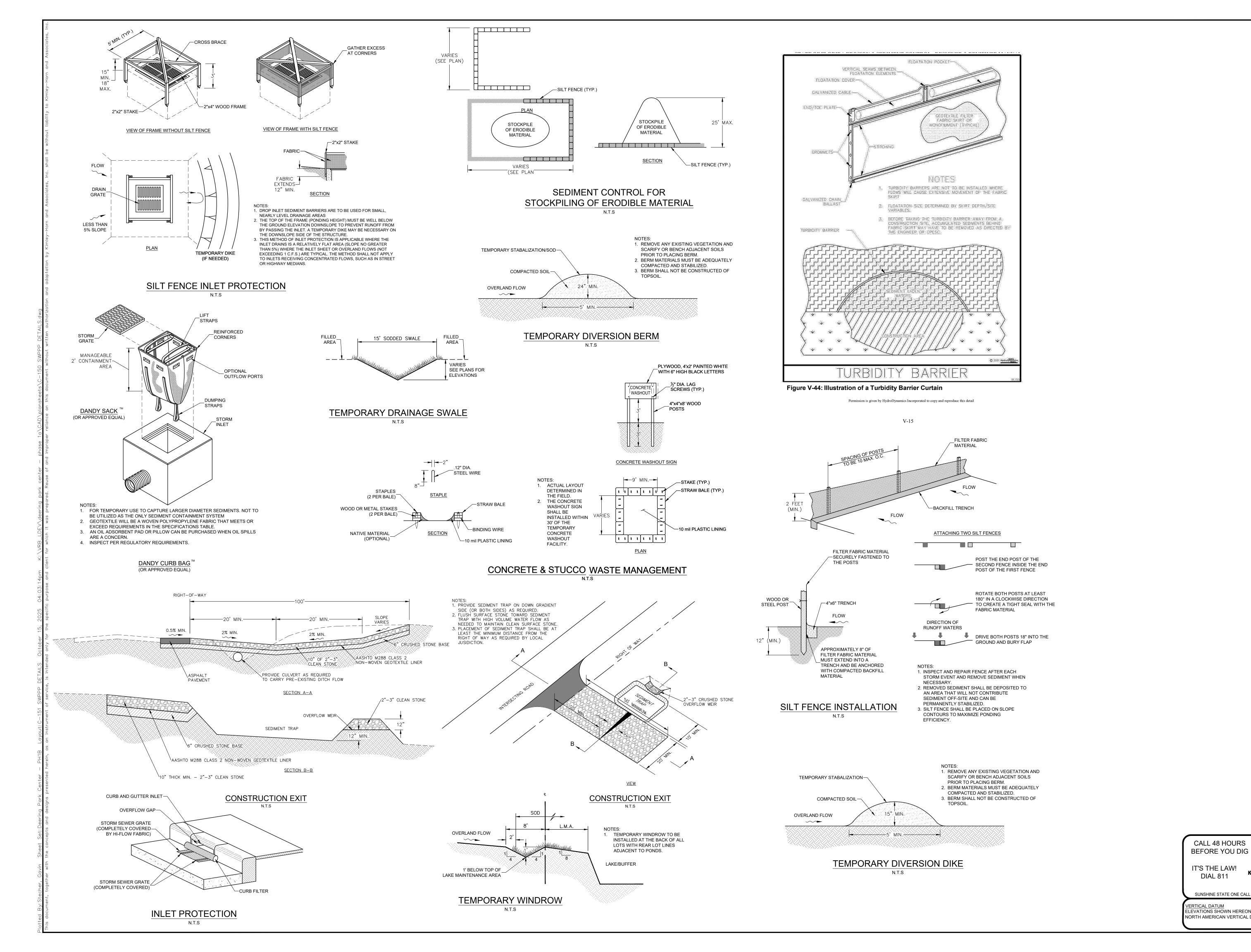




Kimley



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IN AND ASSOCIATES, INC.
SUITE 102, MELBOURNE, FL 32940
SOM REGISTRY NO. 696
No. REVISIONS

IY, PE

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JMBER

7341 OFFICE PARK PLACE, SUITE 102, MELBOL

PHONE: 321-430-1138

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FLORIDA LICENSE NUMBER
75481

SCALE AS SHOWN
DESIGNED BY KFH
DRAWN BY

SWPPP DETAILS

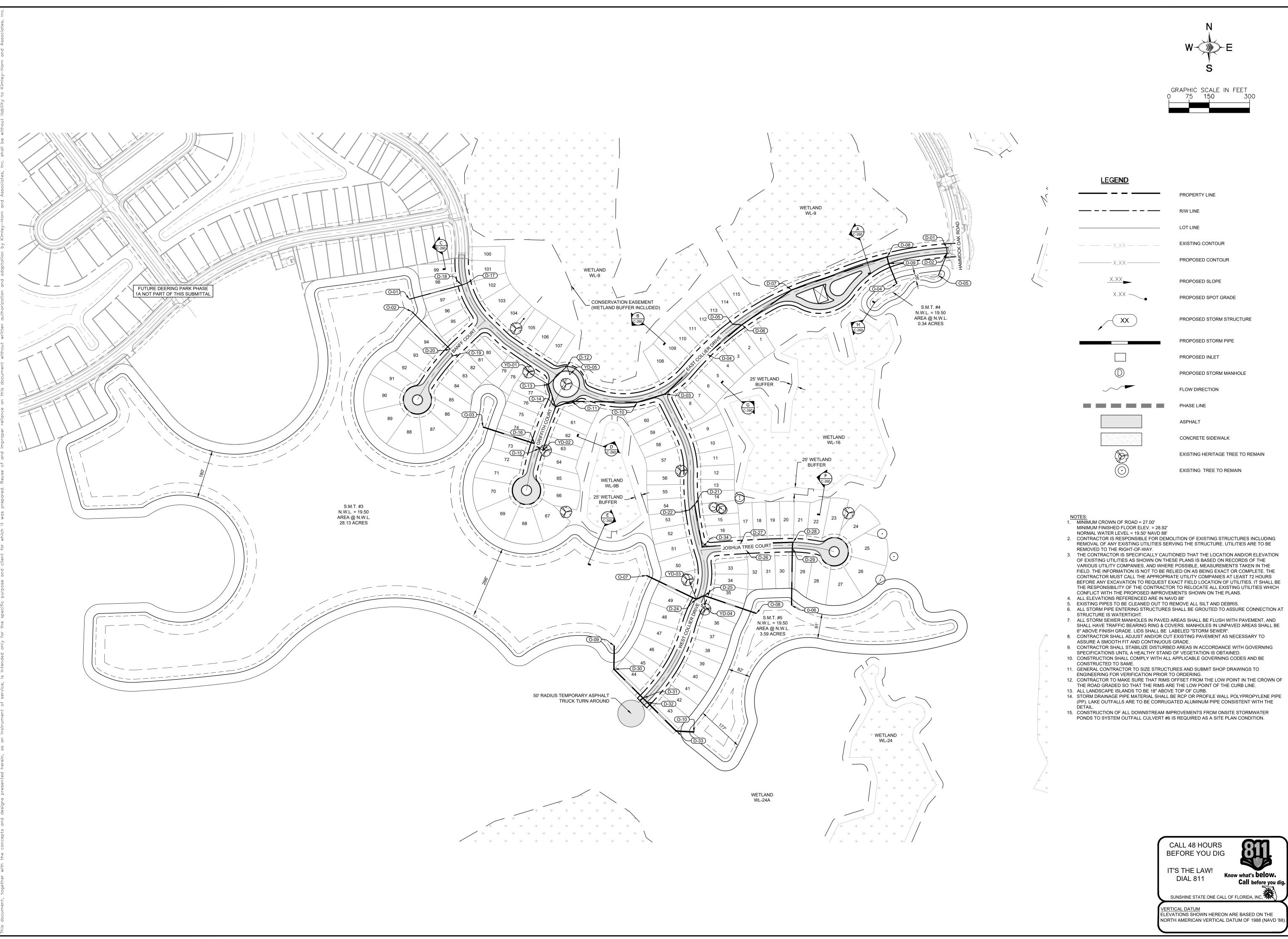
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EXISTING HERITAGE TREE TO REMAIN

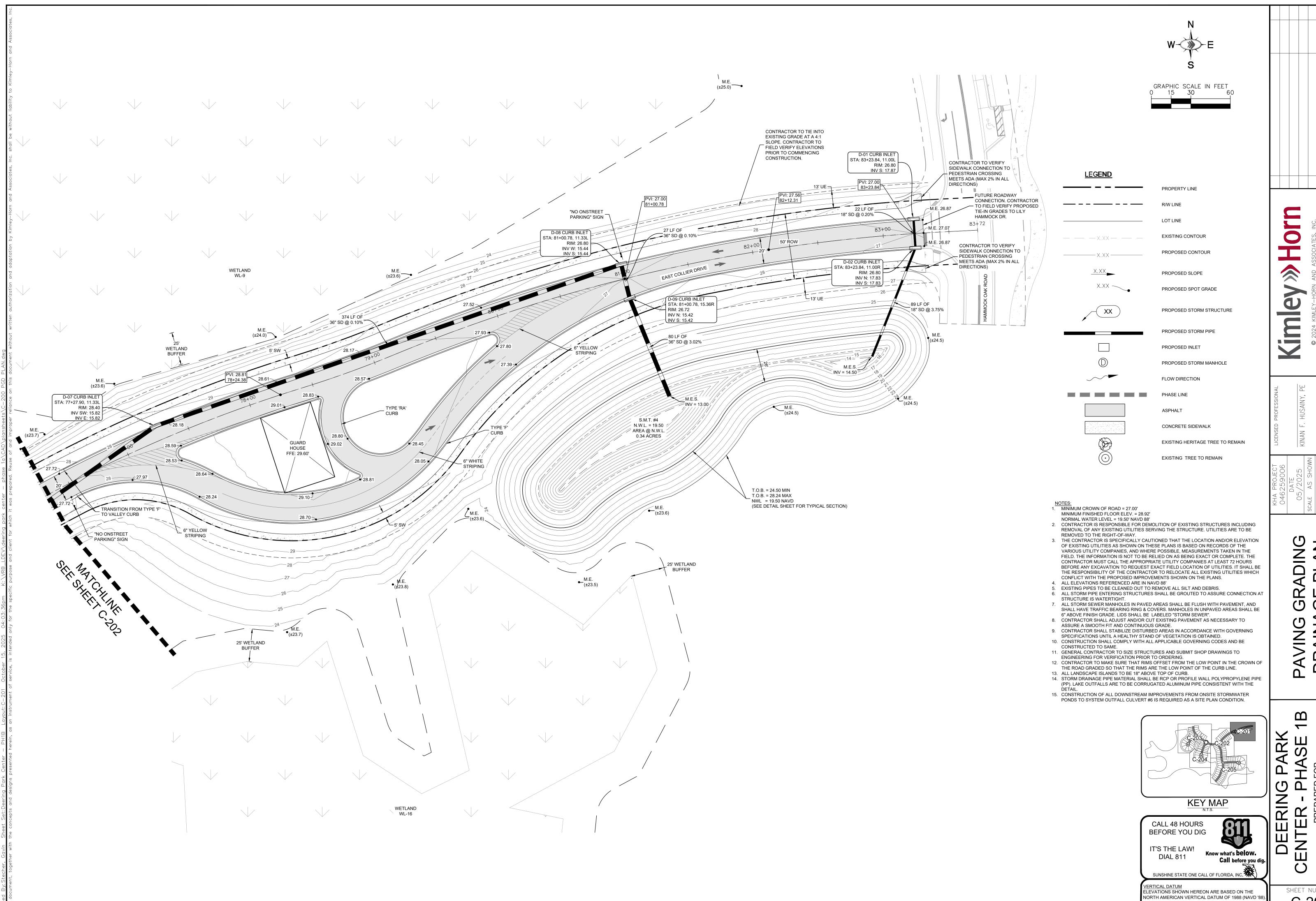
VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH

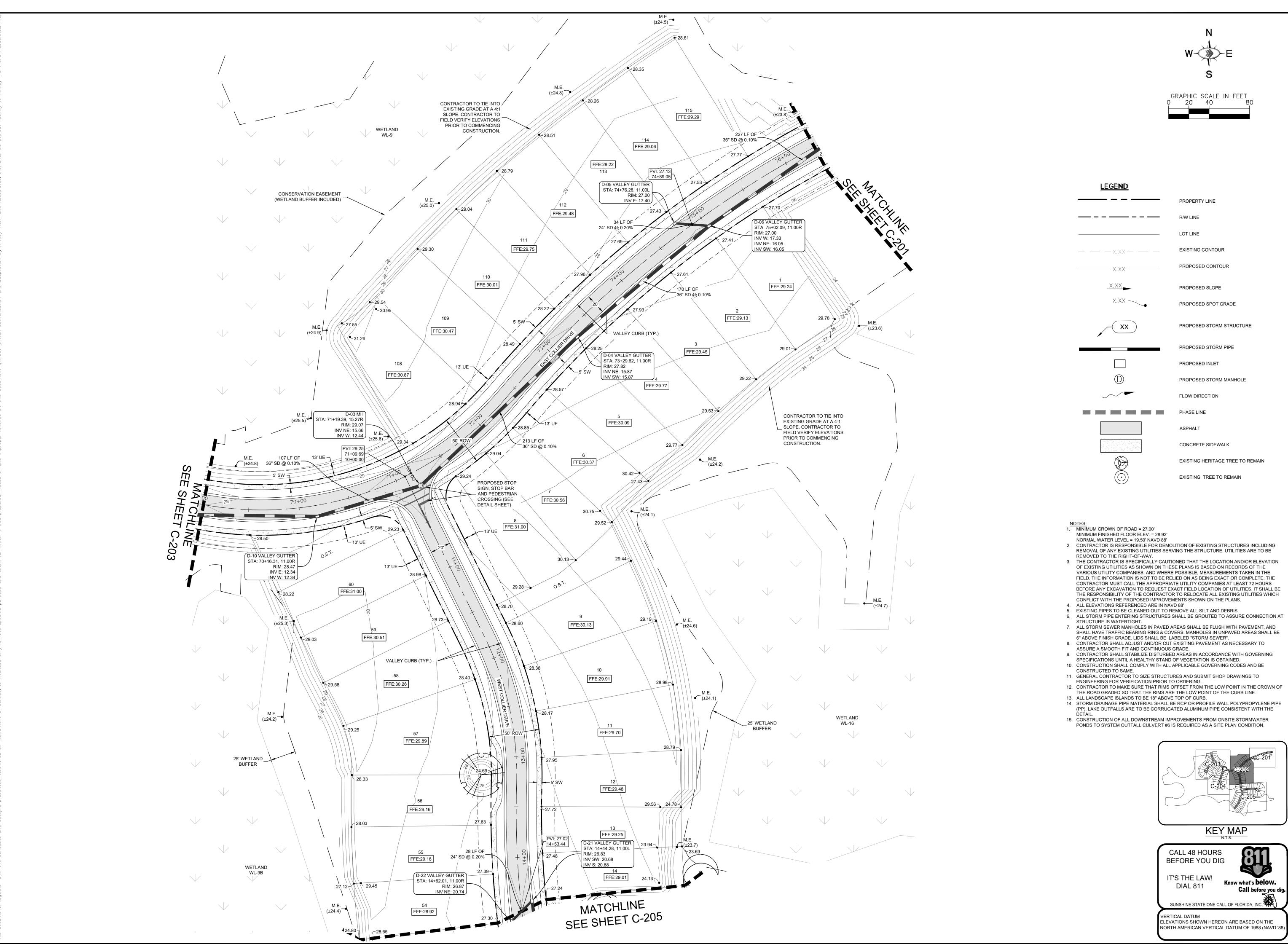
6. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT

12. CONTRACTOR TO MAKE SURE THAT RIMS OFFSET FROM THE LOW POINT IN THE CROWN OF

14. STORM DRAINAGE PIPE MATERIAL SHALL BE RCP OR PROFILE WALL POLYPROPYLENE PIPE (PP). LAKE OUTFALLS ARE TO BE CORRUGATED ALUMINUM PIPE CONSISTENT WITH THE

SUNSHINE STATE ONE CALL OF FLORIDA, INC.





EXISTING HERITAGE TREE TO REMAIN

2. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE

3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH

6. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT

7. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE

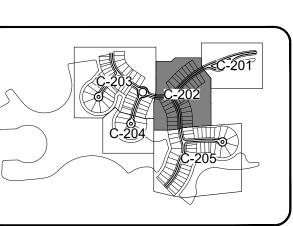
9. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING

11. GENERAL CONTRACTOR TO SIZE STRUCTURES AND SUBMIT SHOP DRAWINGS TO

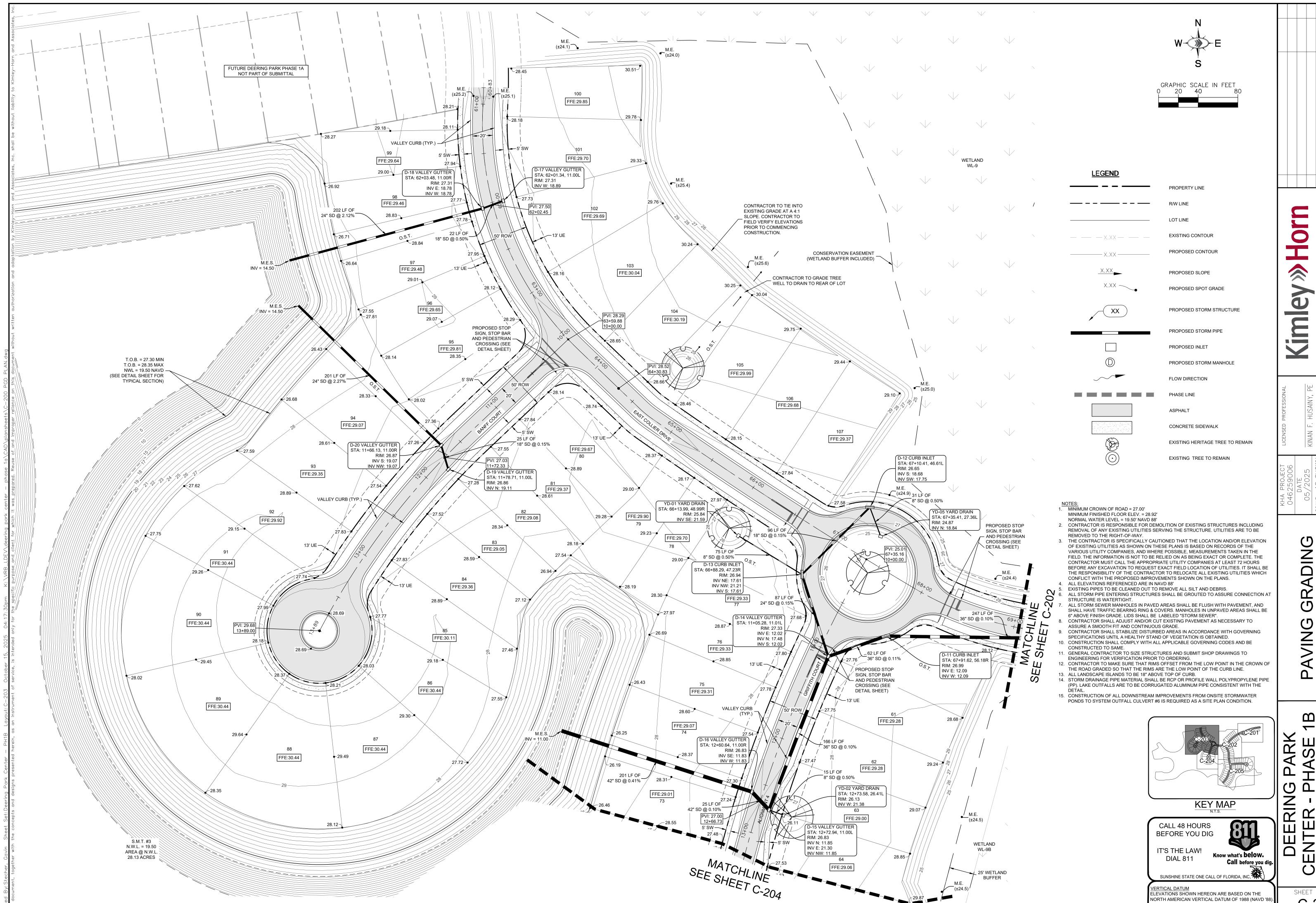
THE ROAD GRADED SO THAT THE RIMS ARE THE LOW POINT OF THE CURB LINE.

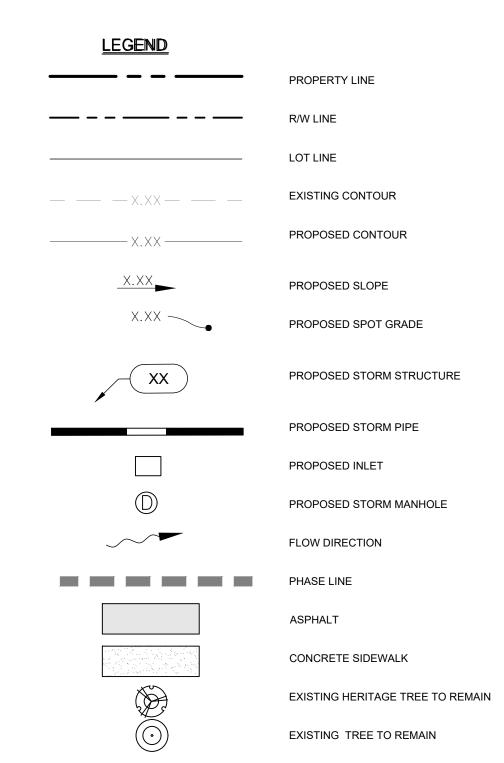
14. STORM DRAINAGE PIPE MATERIAL SHALL BE RCP OR PROFILE WALL POLYPROPYLENE PIPE (PP). LAKE OUTFALLS ARE TO BE CORRUGATED ALUMINUM PIPE CONSISTENT WITH THE

PONDS TO SYSTEM OUTFALL CULVERT #6 IS REQUIRED AS A SITE PLAN CONDITION.



SUNSHINE STATE ONE CALL OF FLORIDA, INC.





NOTES:

1. MINIMUM CROWN OF ROAD = 27.00'

THE STREET OOR FLEV. = 7 MINIMUM FINISHED FLOOR ELEV. = 28.92' NORMAL WATER LEVEL = 19.50' NAVD 88'

2. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE

REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.

3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ALL ELEVATIONS REFERENCED ARE IN NAVD 88'
 EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

6. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT. 7. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".

8. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

9. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.

10. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE

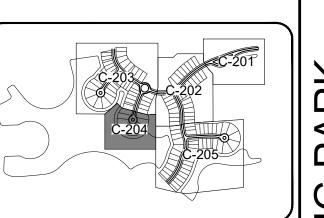
CONSTRUCTED TO SAME.

 GENERAL CONTRACTOR TO SIZE STRUCTURES AND SUBMIT SHOP DRAWINGS TO ENGINEERING FOR VERIFICATION PRIOR TO ORDERING. 12. CONTRACTOR TO MAKE SURE THAT RIMS OFFSET FROM THE LOW POINT IN THE CROWN OF

THE ROAD GRADED SO THAT THE RIMS ARE THE LOW POINT OF THE CURB LINE. ALL LANDSCAPE ISLANDS TO BE 18" ABOVE TOP OF CURB.
 STORM DRAINAGE PIPE MATERIAL SHALL BE RCP OR PROFILE WALL POLYPROPYLENE PIPE

(PP). LAKE OUTFALLS ARE TO BE CORRUGATED ALUMINUM PIPE CONSISTENT WITH THE DETAIL.

15. CONSTRUCTION OF ALL DOWNSTREAM IMPROVEMENTS FROM ONSITE STORMWATER PONDS TO SYSTEM OUTFALL CULVERT #6 IS REQUIRED AS A SITE PLAN CONDITION.



KEY MAP

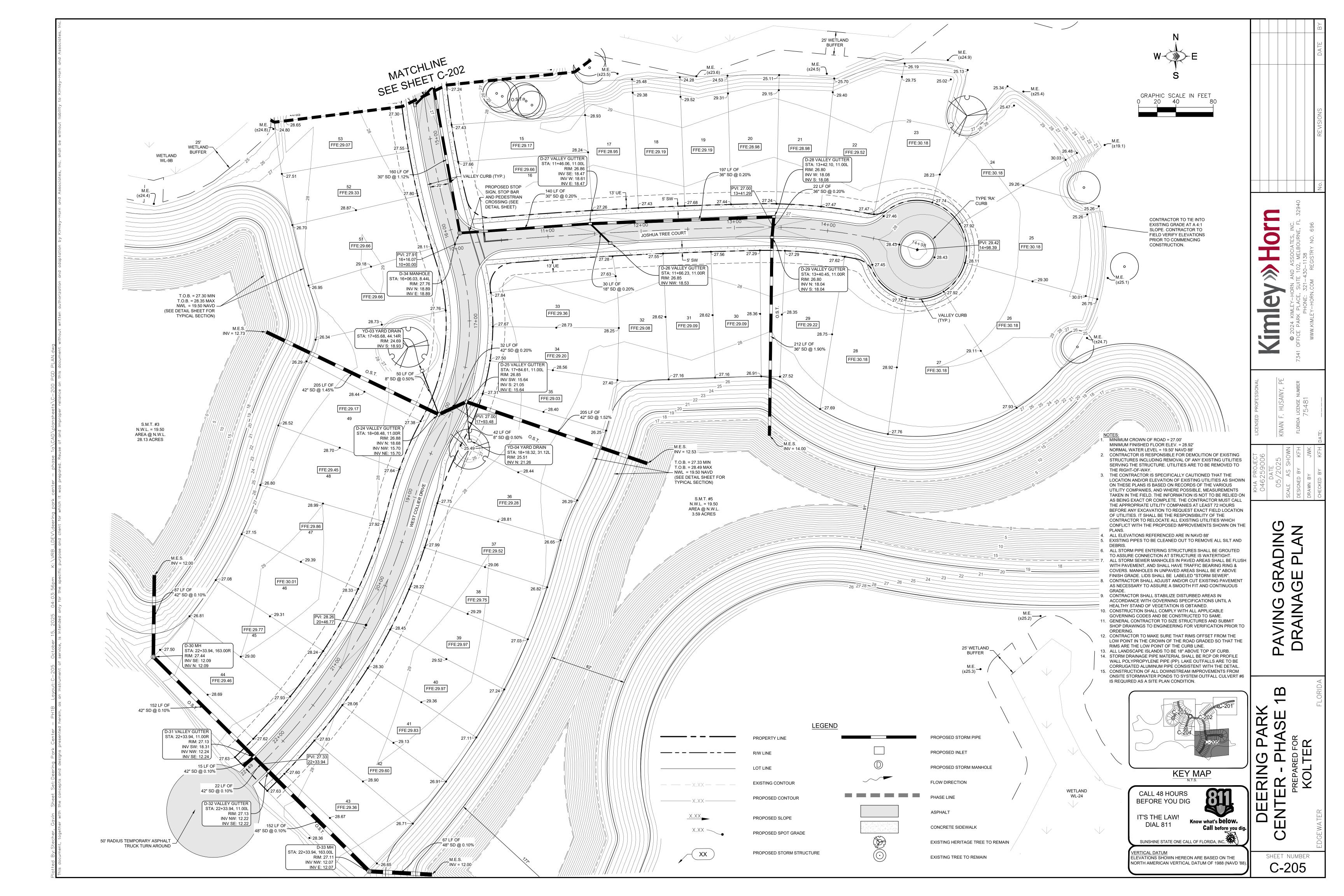
CALL 48 HOURS BEFORE YOU DIG

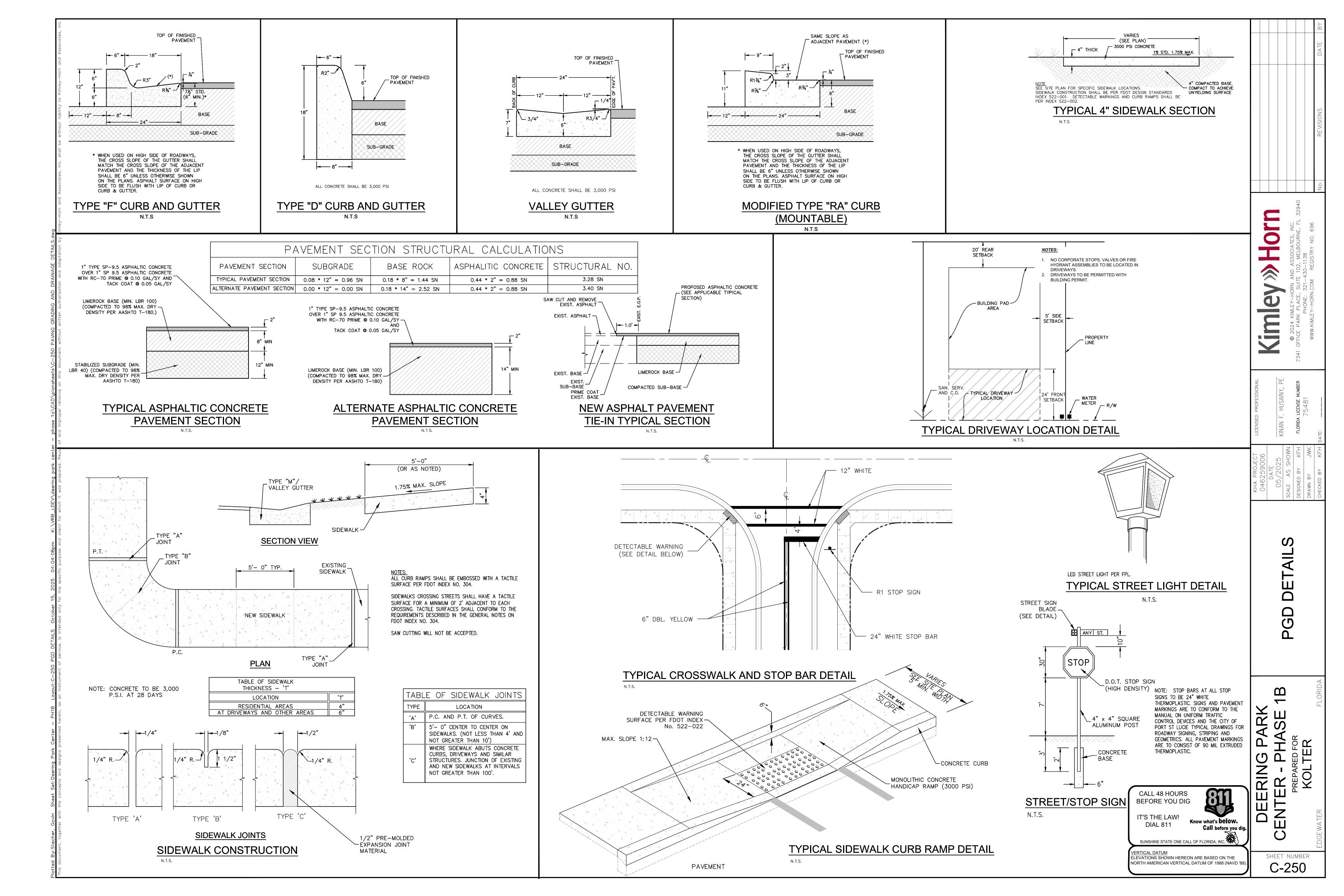
IT'S THE LAW! **DIAL 811**

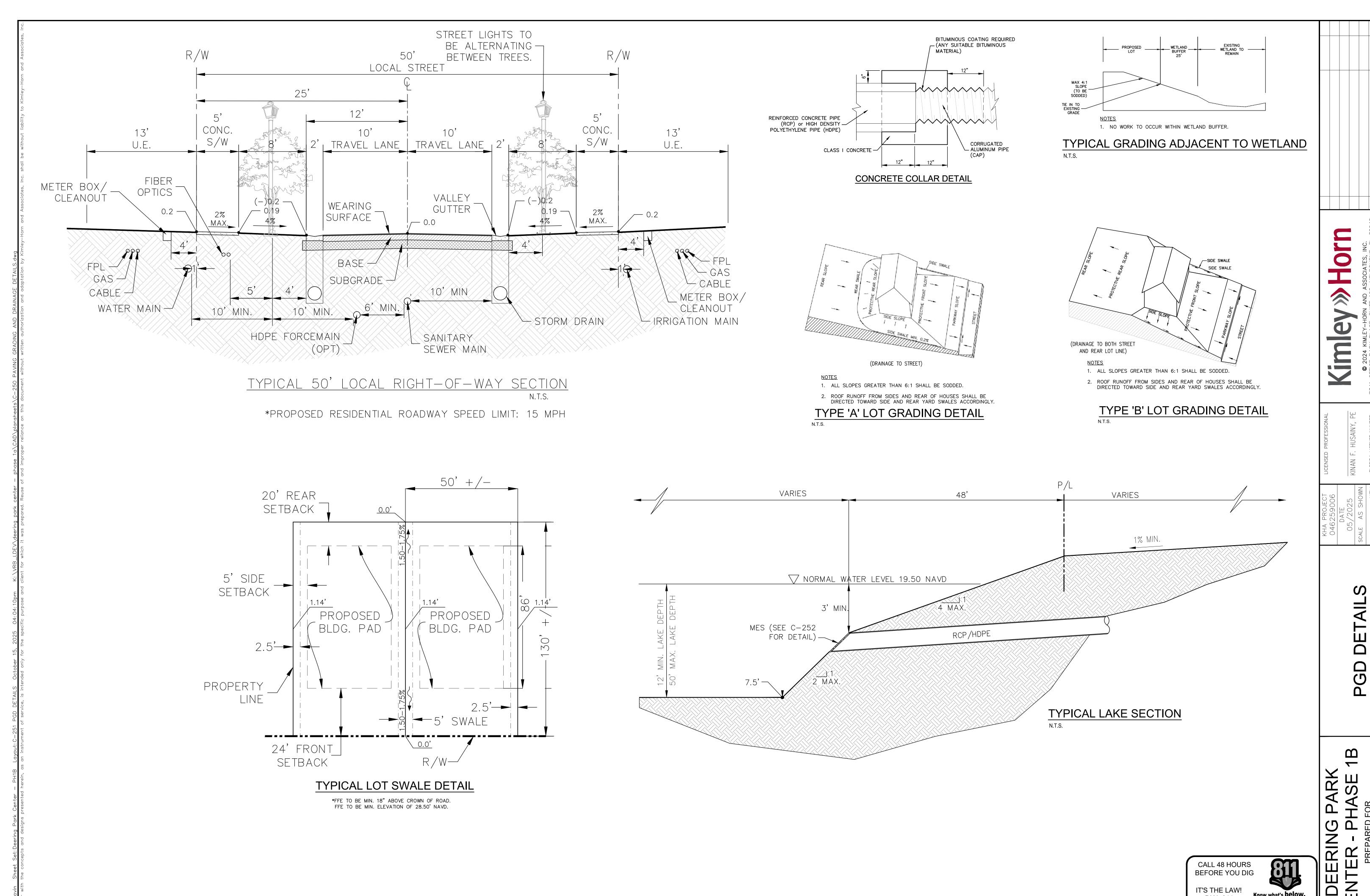
SUNSHINE STATE ONE CALL OF FLORIDA, INC. VERTICAL DATUM ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).

SHEET NUMBER C-204

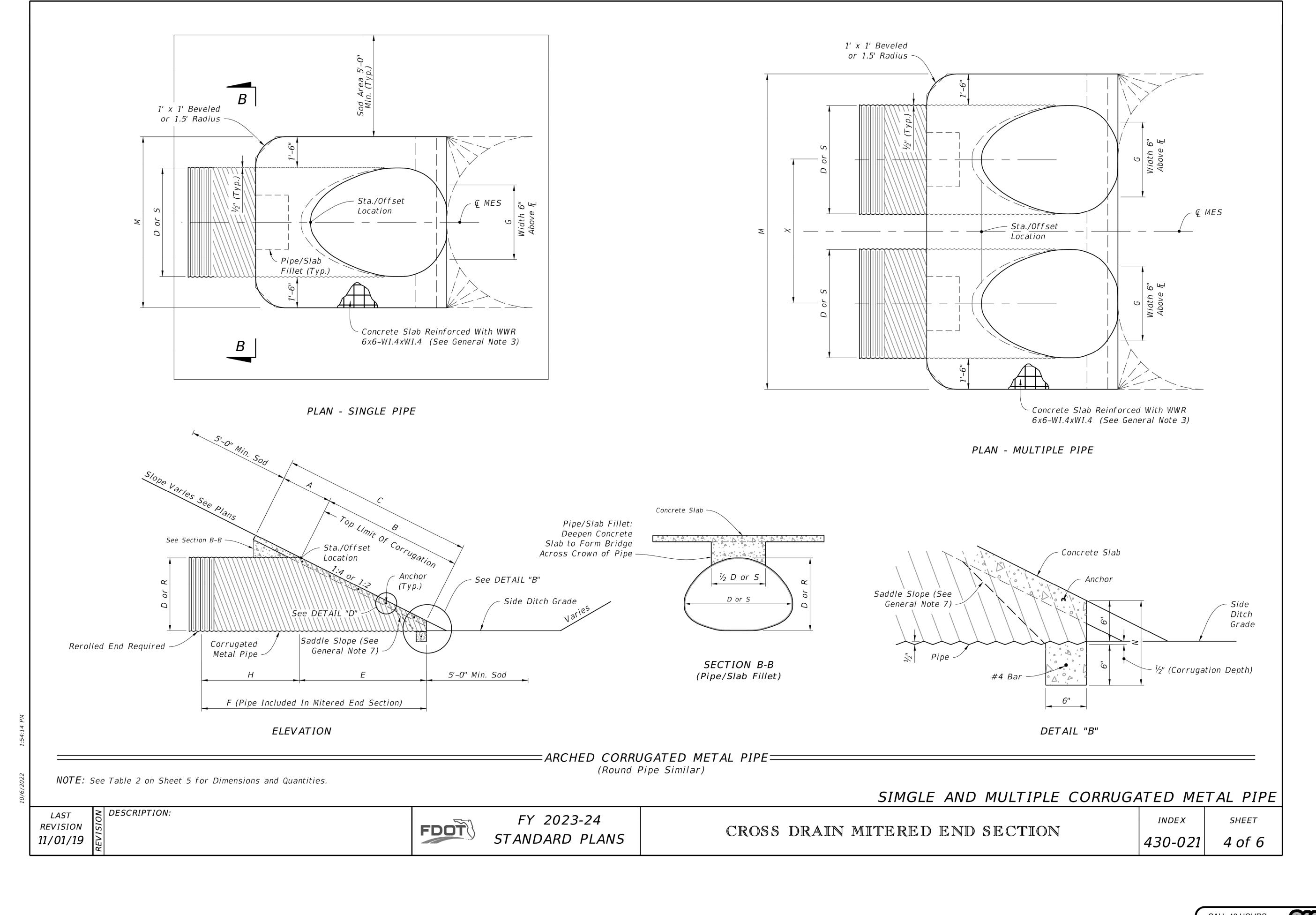
FFE:29.26 FFE:30.18 FFE:29.87 FFE:30.18 VALLEY CURB (TYP.) CONTRACTOR TO TIE INTO EXISTING GRADE AT A 4:1 SLOPE. CONTRACTOR TO FFE:30.18 FFE:30.18 FIELD VERIFY ELEVATIONS PRIOR TO COMMENCING (±26.1) CONSTRUCTION. FFE:30.18 T.O.B. = 27.30 MIN T.O.B. = 28.35 MAX NWL = 19.50 NAVD — (SEE DETAIL SHEET FOR TYPICAL SECTION) S.M.T. #3 N.W.L. = 19.50 AREA @ N.W.L. 28.13 ACRES

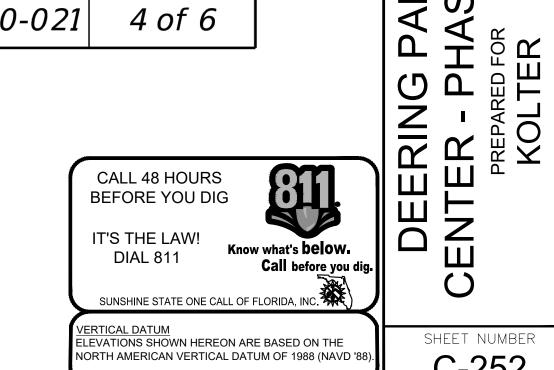






DIAL 811 SUNSHINE STATE ONE CALL OF FLORIDA, IN <u>VERTICAL DATUM</u> ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).

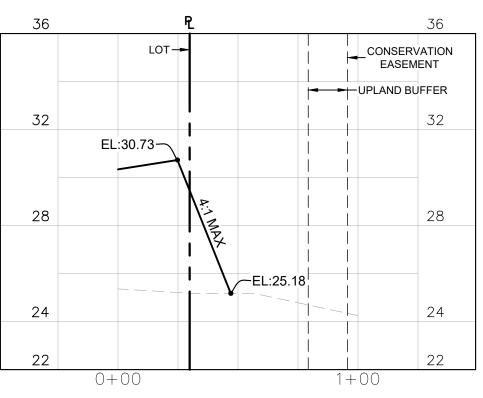




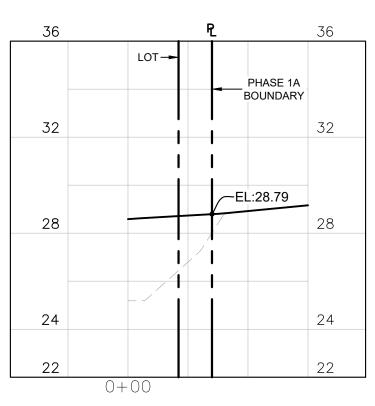
DETAILS

PGD

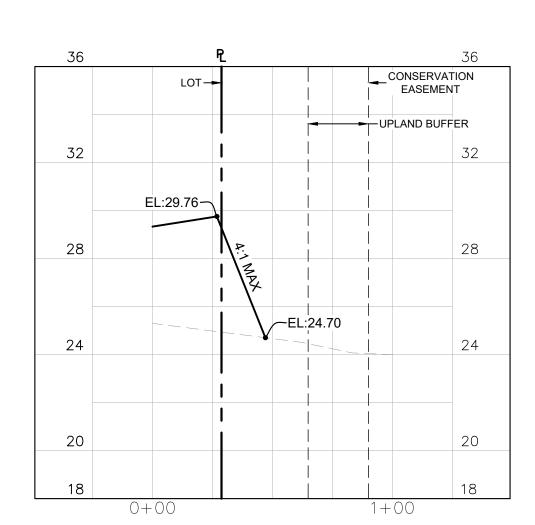
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SECTION B SCALE: 1" = 40' (H) 1" = 4' (V)

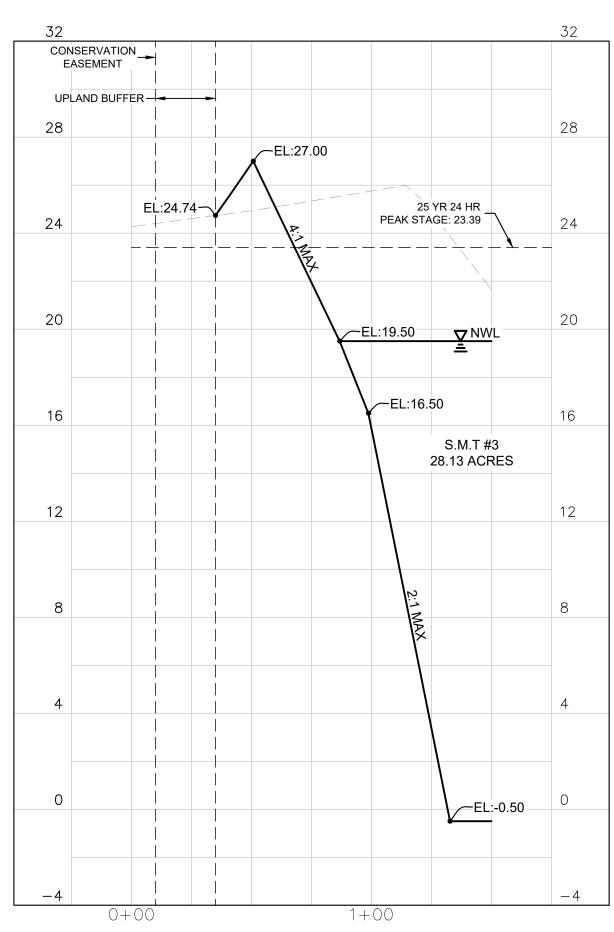


SECTION C SCALE: 1" = 40' (H) 1" = 4' (V)

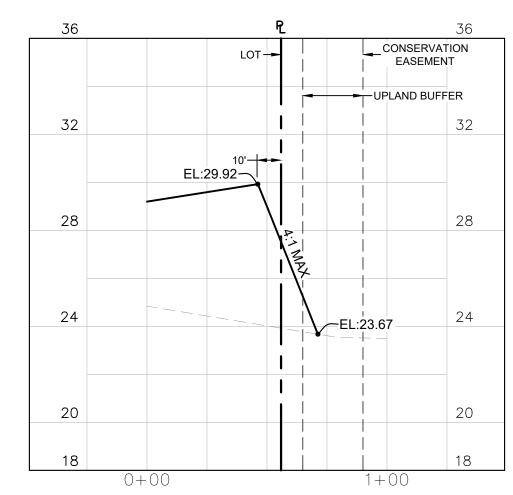


SECTION D

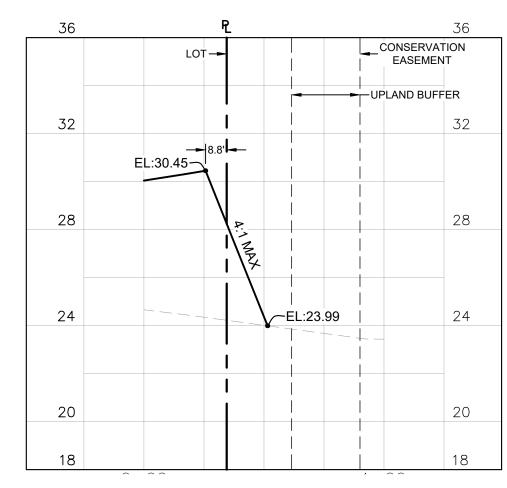
SCALE: 1" = 40' (H) 1" = 4' (V)



SECTION E SCALE: 1" = 40' (H) 1" = 4' (V)

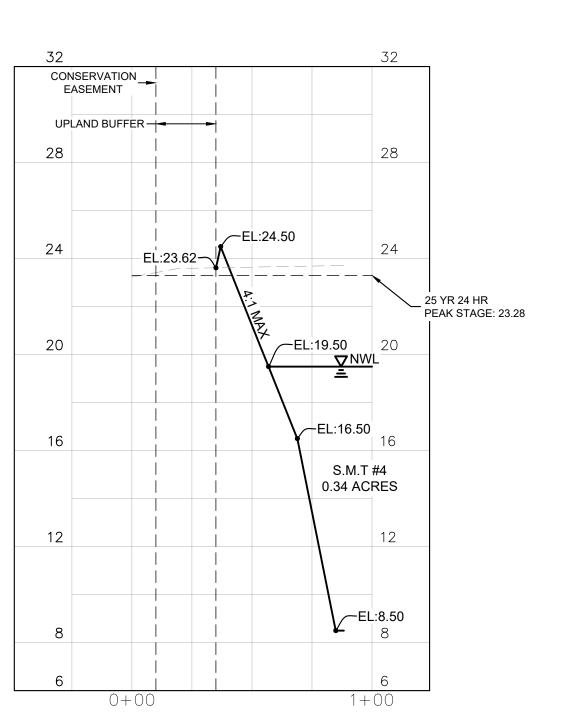


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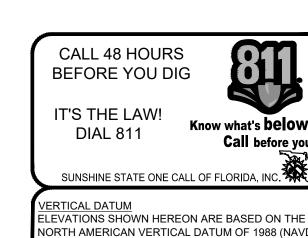


SECTION G

SCALE: 1" = 40' (H)
1" = 4' (V)



SECTION H
SCALE: 1" = 40' (H) 1" = 4' (V)



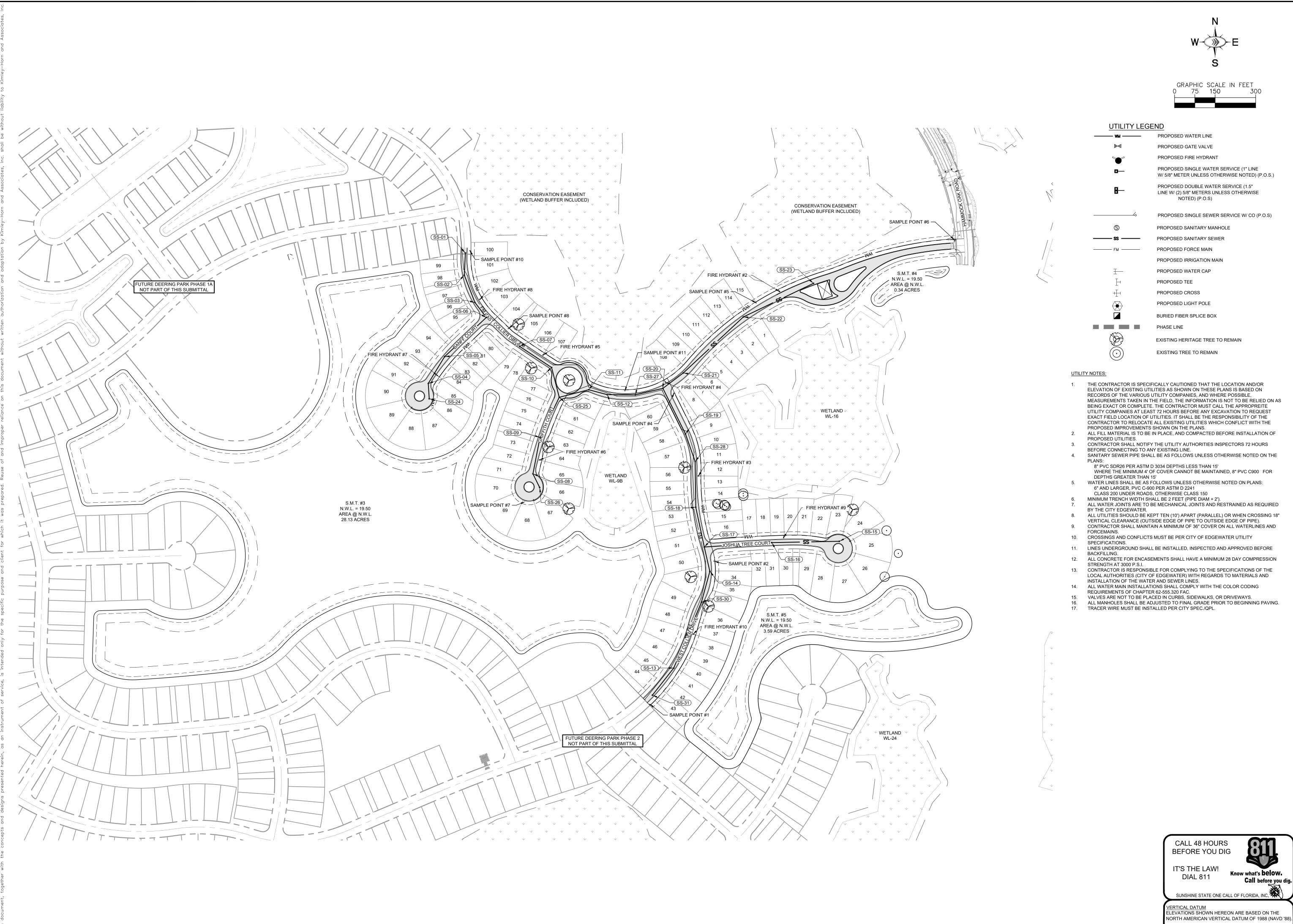
Call before you dig. SUNSHINE STATE ONE CALL OF FLORIDA, INC. VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).

SHEET NUMBER C-260

DEERING PARK ENTER - PHASE

SECTIONS

CROSS



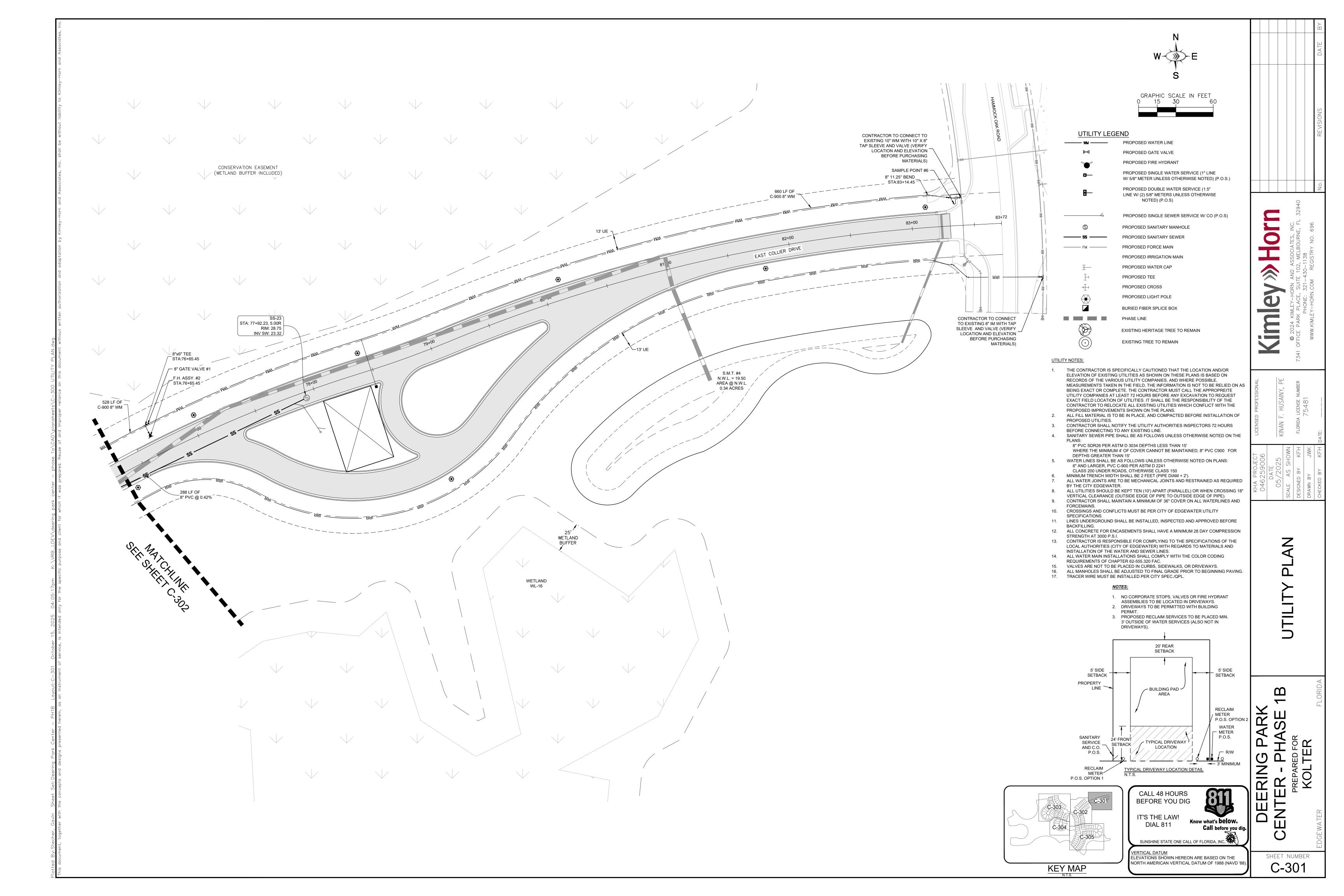
PROPOSED SINGLE SEWER SERVICE W/ CO (P.O.S)

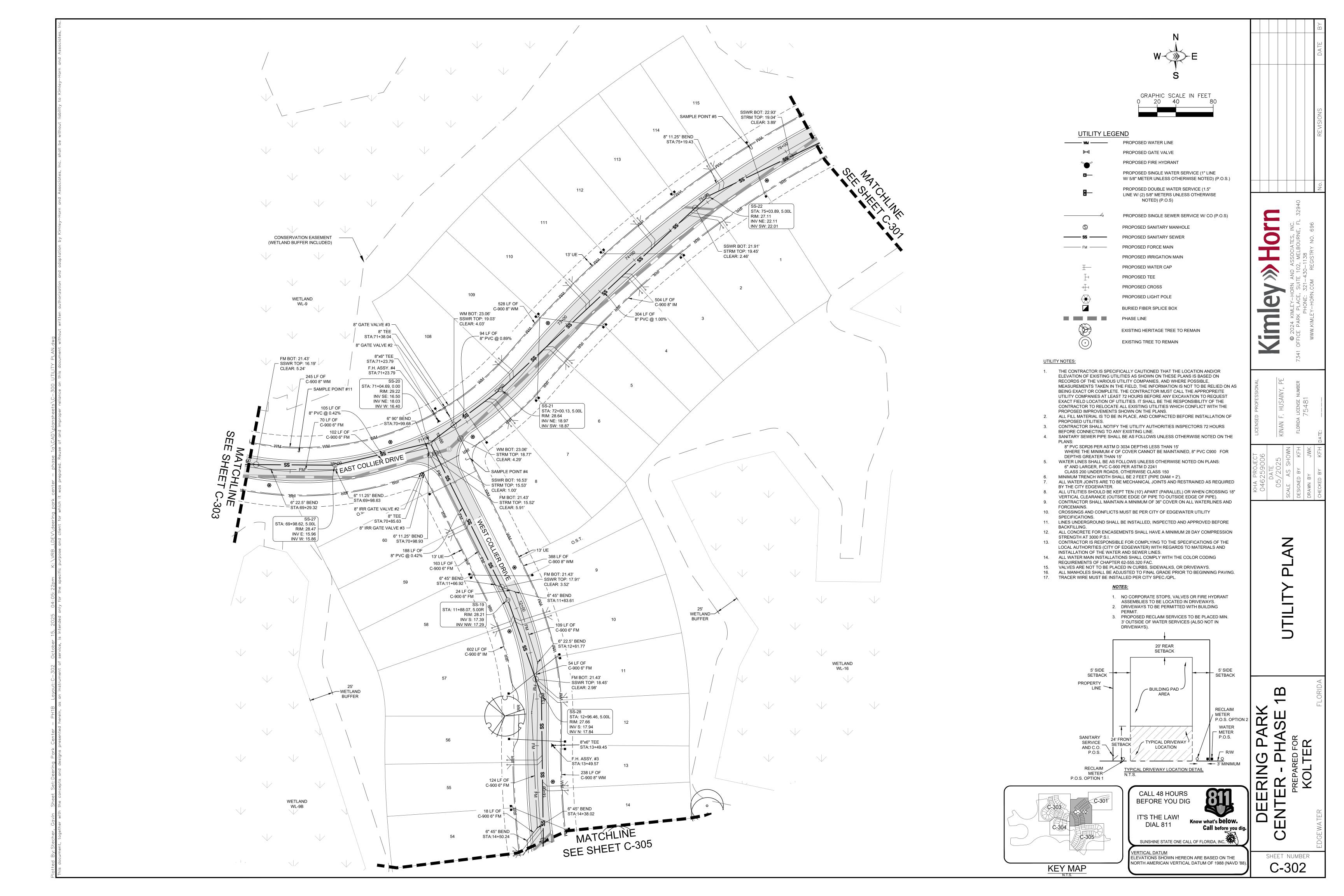
MEASUREMENTS TAKEN IN THE FIELD, THE INFORMATION IS NOT TO BE RELIED ON AS UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE

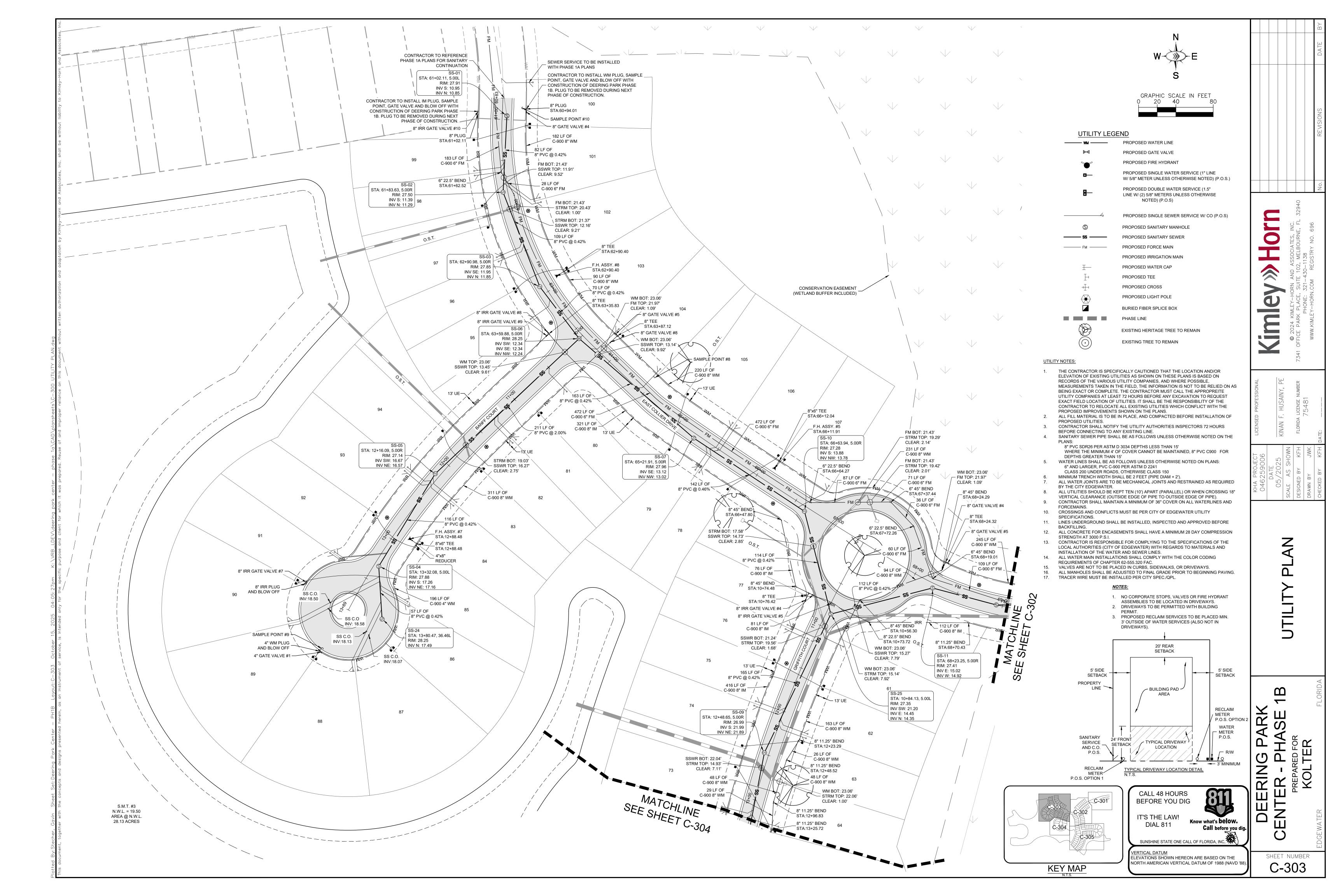
SANITARY SEWER PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE

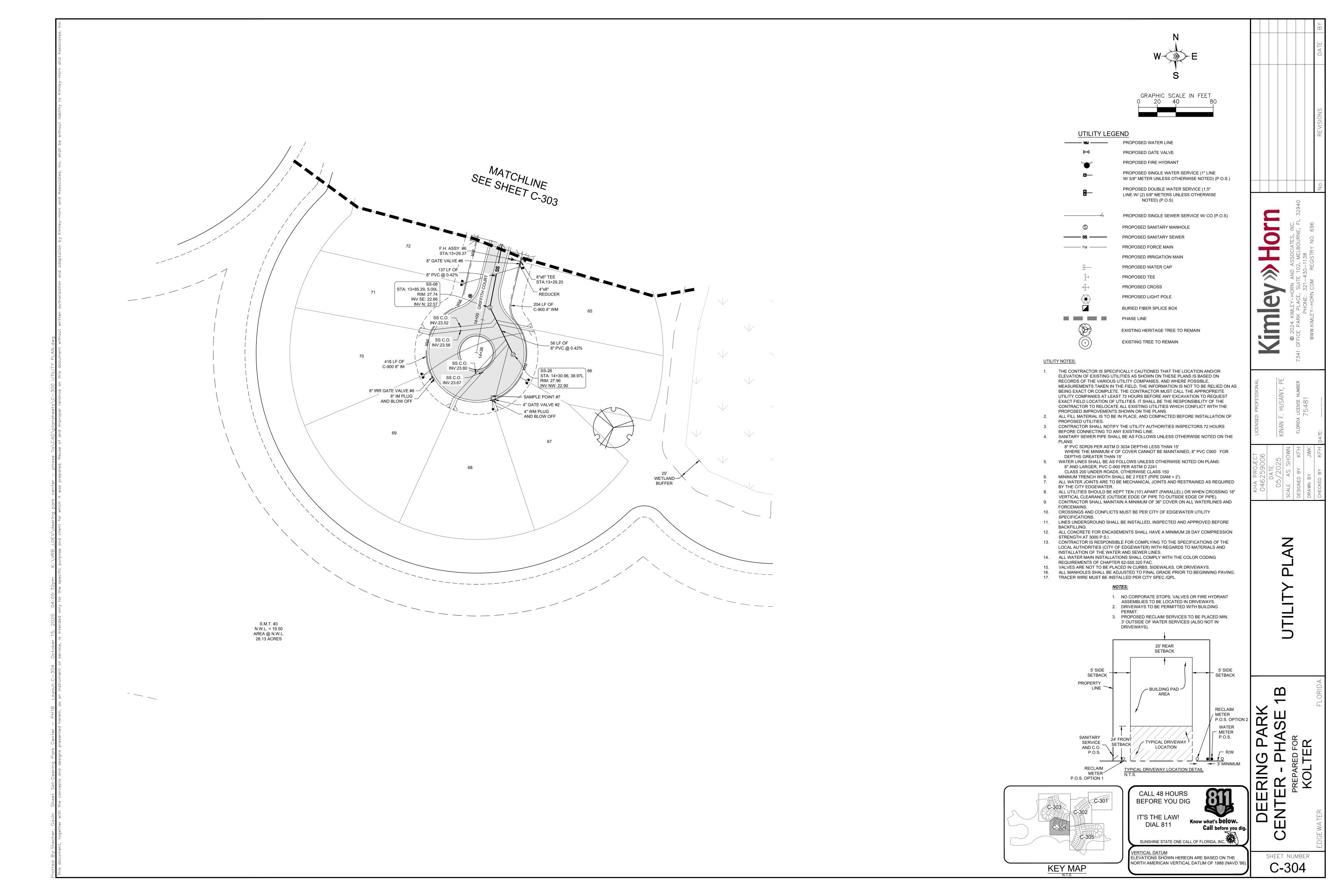
WHERE THE MINIMUM 4' OF COVER CANNOT BE MAINTAINED, 8" PVC C900 FOR

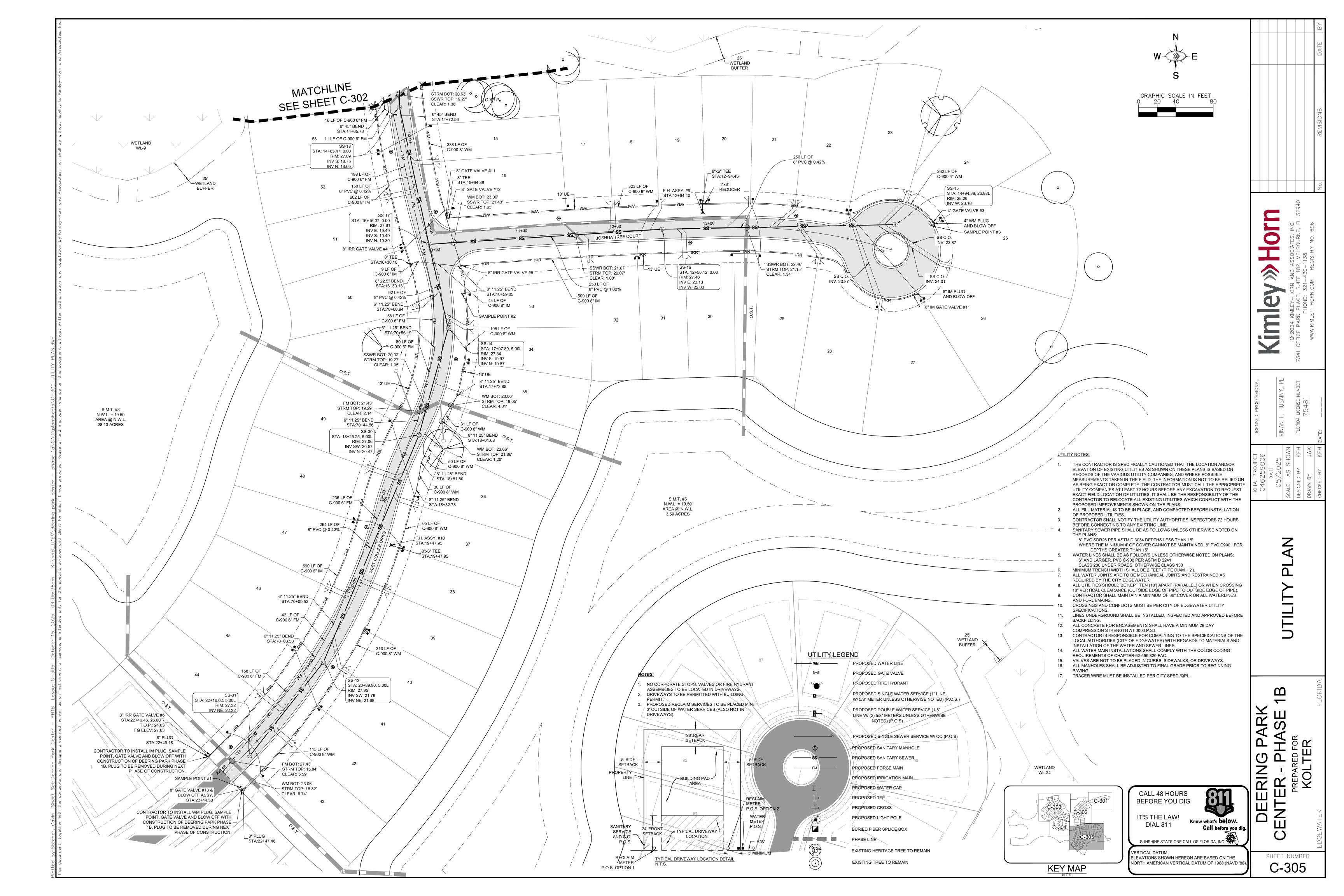
ALL MANHOLES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO BEGINNING PAVING.











5. ALL MANHOLE TROUGHS AND BENCHES ARE TO BE EPOXY PAINTED BEFORE FINAL INSPECTION.

FDGEWATER

2023-01-25

6. LAST MANHOLE UPSTREAM OF A LIFT STATION MUST BE LINED W/ SPECTRA SHIELD OR EQUAL.

STANDARD CONSTRUCTION DETAIL

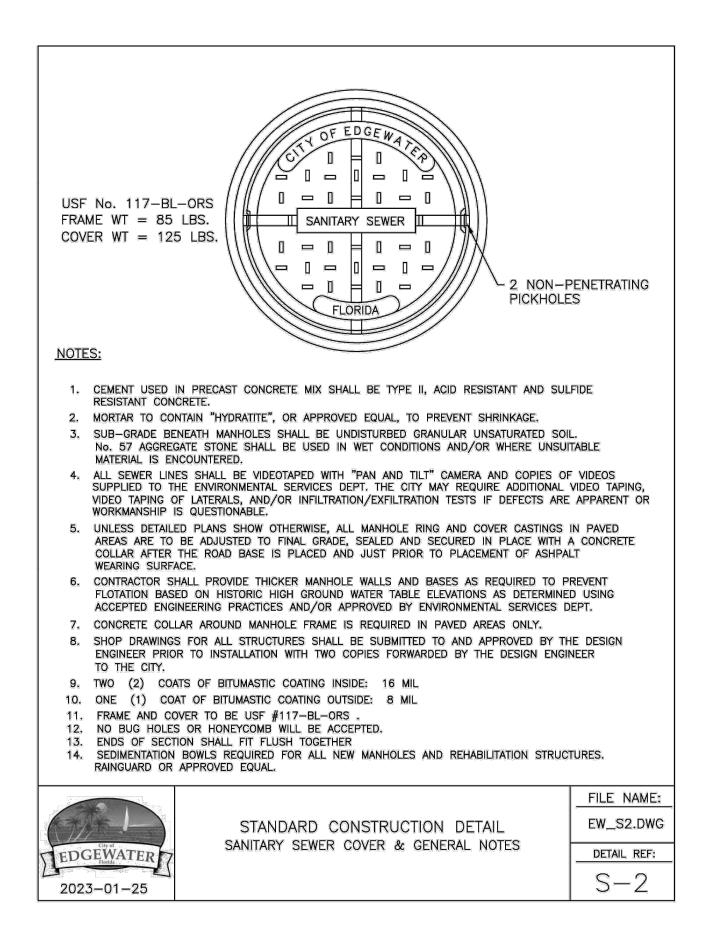
STANDARD MANHOLE DETAIL

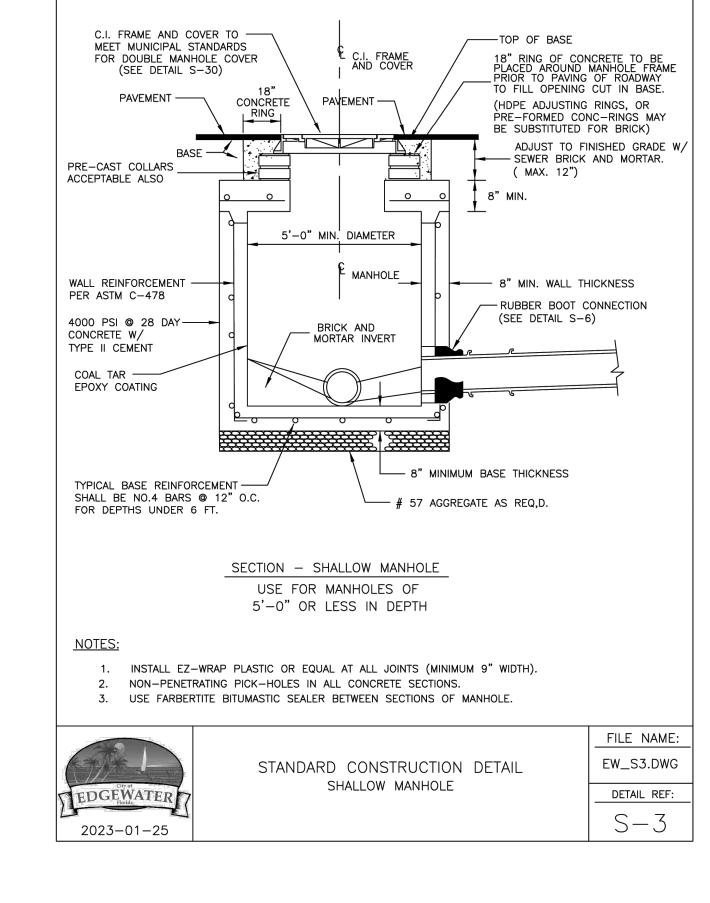
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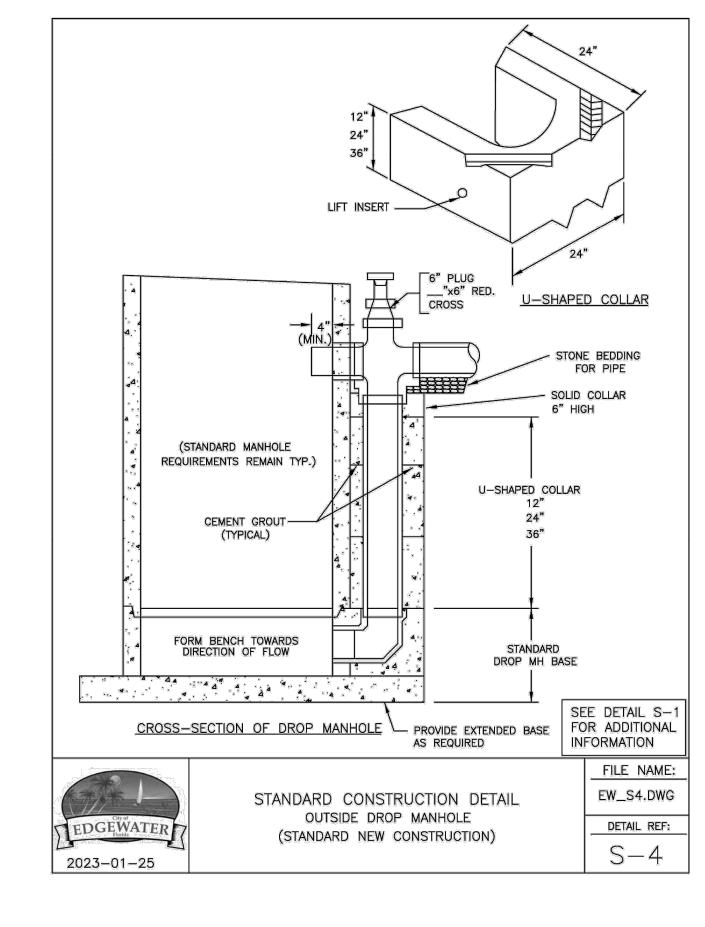
EW_S1.DWG

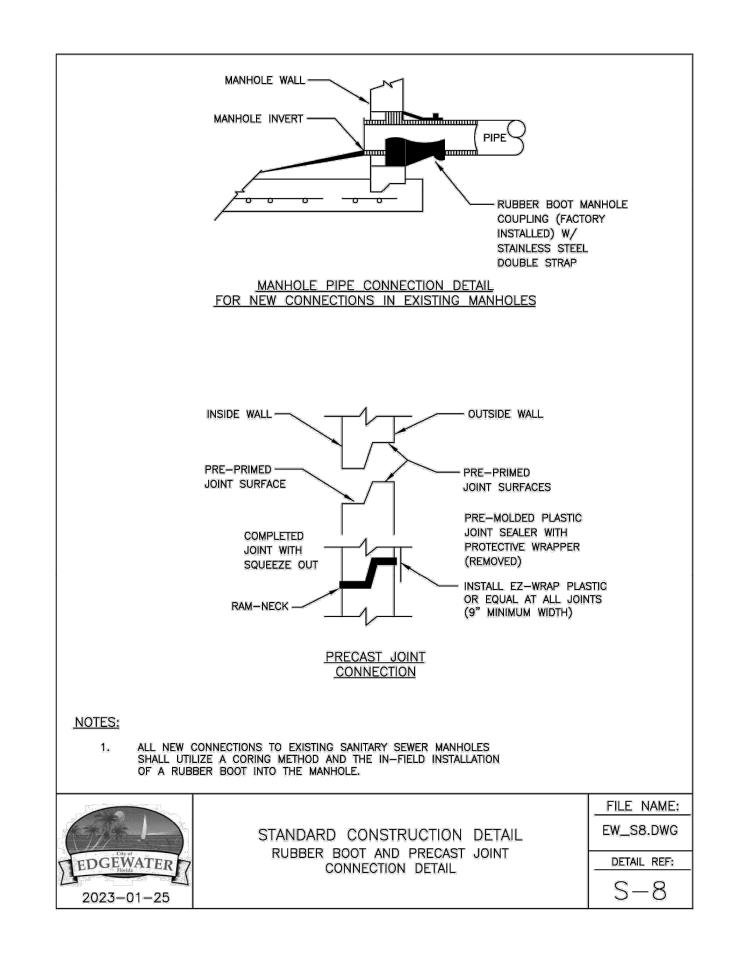
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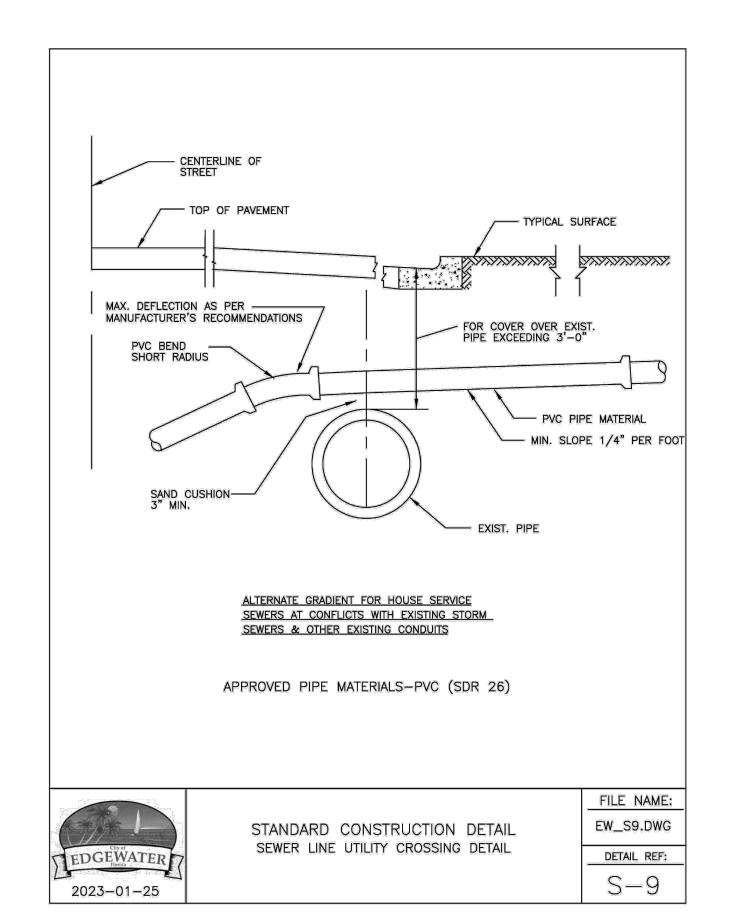
S-1

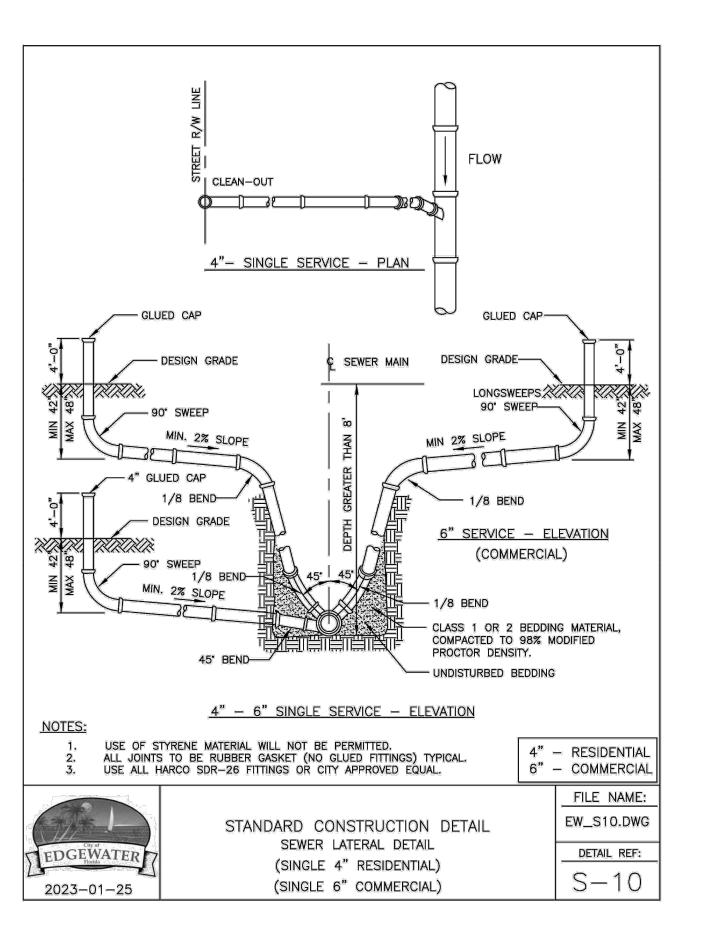


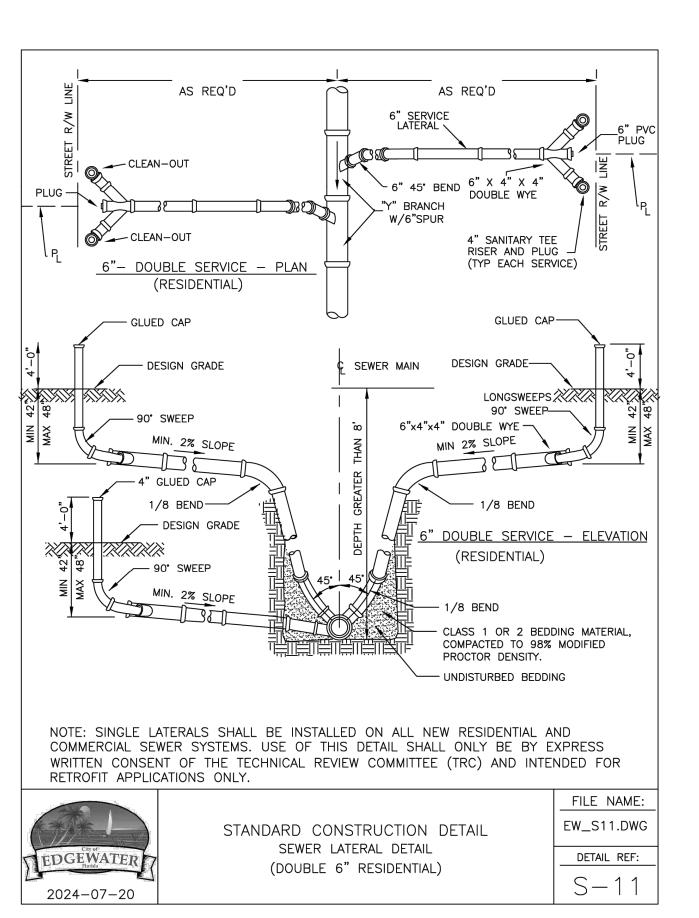


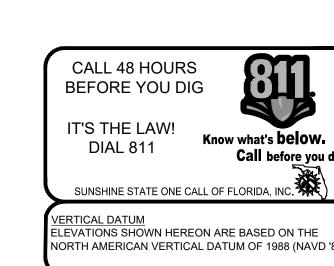


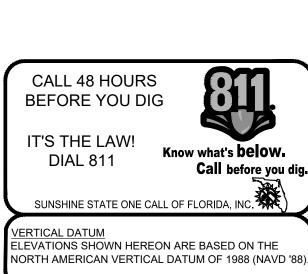










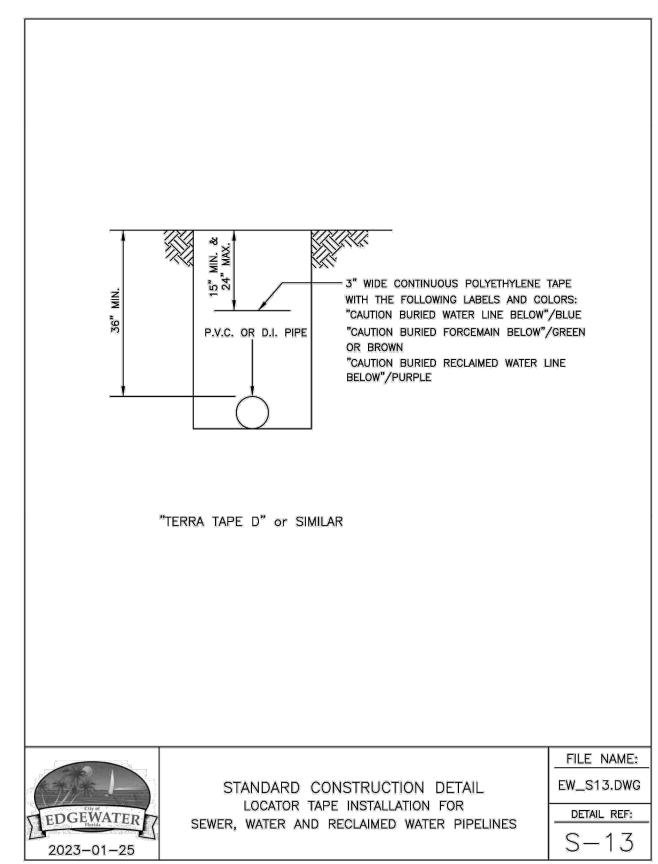


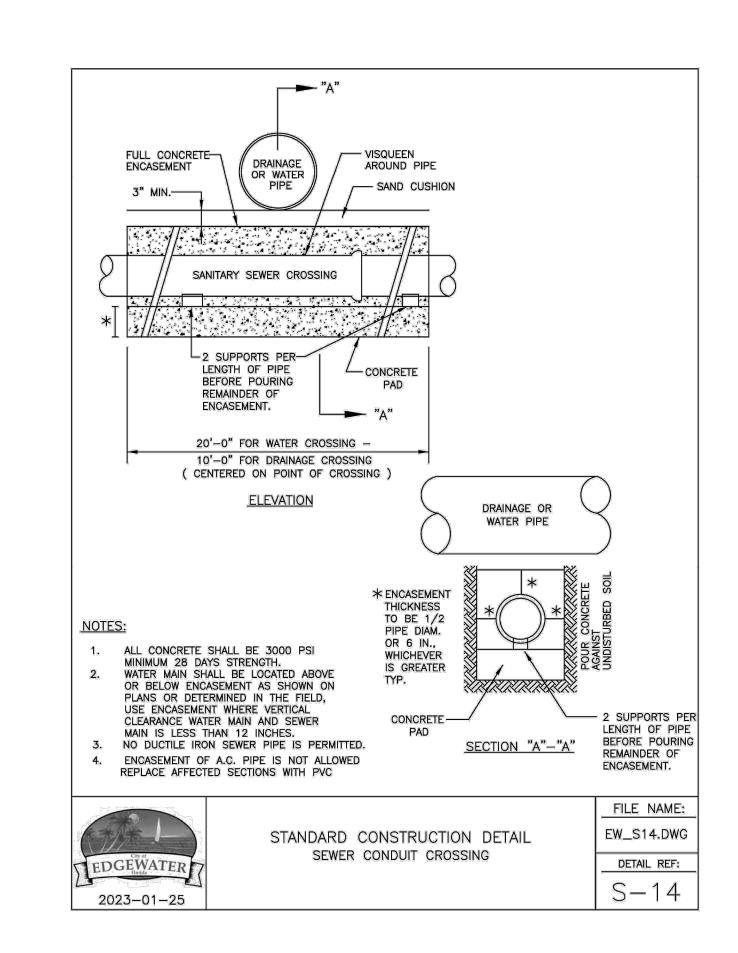
SHEET NUMBER C-350

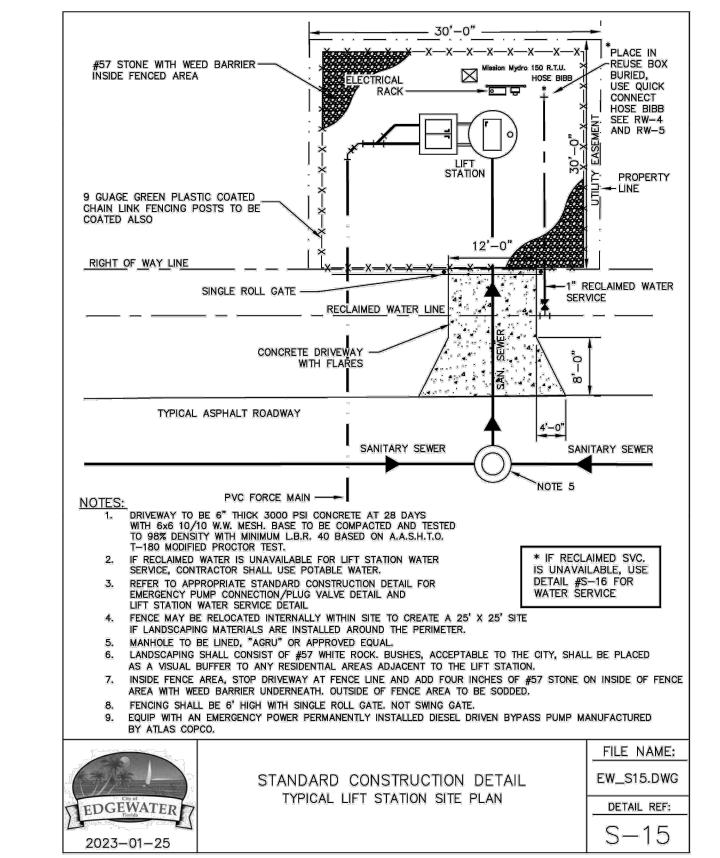
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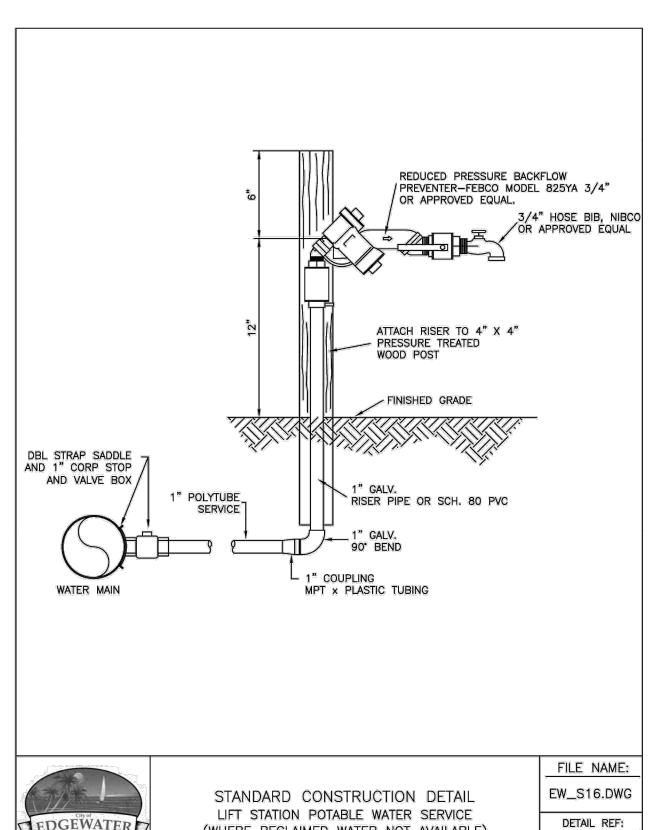
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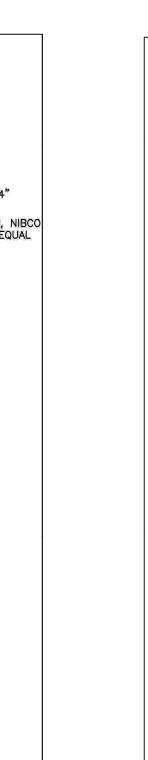




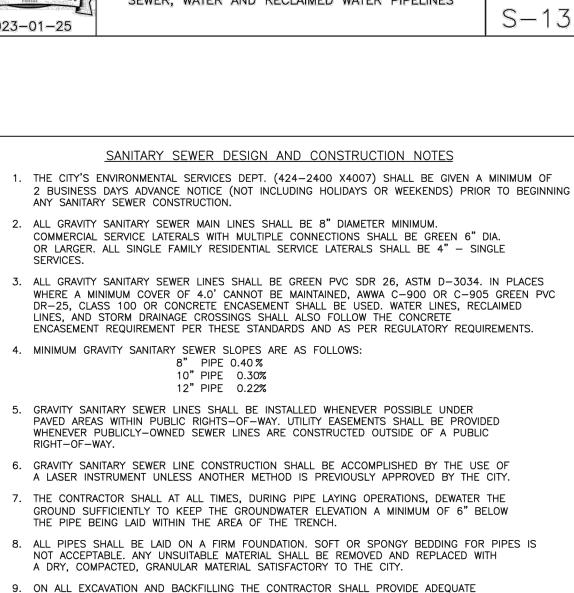


(WHERE RECLAIMED WATER NOT AVAILABLE)

2023-01-25



S - 16



SHEETING AND BRACING IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY, THE DESIGN ENGINEER, AND THE DEVELOPER.

EXPENSE TO INSURE THAT COMPACTION OF ALL FILL MATERIAL IS COMPLETED PROPERLY.
TESTS SHALL BE DONE ONE FOOT ABOVE THE PIPE AND THEN AT ONE FOOT VERTICAL
INTERVALS UNTIL FINAL GRADE IS REACHED. TESTING SHALL BE COMPLETED AND TEST
DOCUMENTS SUBMITTED TO THE CITY AT A MINIMUM FREQUENCY OF ONE SET OF TESTS

10. ALL TRENCHES SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND COMPACTED TO THE SPECIFIED MINIMUM COMPACTION (95% IN UNPAVED AREAS AND 98% IN PAVED AREAS) OF THE OPTIMUM DENSITY OF THAT MATERIAL BASED ON THE AASHTO T-180 MODIFIED

11. THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY AT HIS OWN

BETWEEN EACH MANHOLE AND ONE ADDITIONAL SET OF TESTS AT EVERY MANHOLE.

TEST RESULTS SHALL BE FORWARDED PROMPTLY TO THE CITY'S DESIGNATED SITE

MAIN. INSTALL 12 GUAGE TRACING WIRE IN TRENCH.

IDENTIFICATION OF TEST LOCATIONS SHALL BE CLEARLY INDICATED ON TEST REPORTS.

12. THE CONTRACTOR SHALL INSTALL A METALLIZED FOIL LOCATOR TAPE, OR SIMILAR DEVICE AS MAY BE APPROVED BY THE CITY FOR THE FULL LENGTH OF ALL PVC SEWAGE FORCE MAINS. THIS PIPE

STANDARD CONSTRUCTION DETAIL

SANITARY SEWER DESIGN AND

CONSTRUCTION NOTES

LOCATOR AID SHALL BE INSTALLED BETWEEN 15" AND 24" BELOW FINISHED GRADE OR AS DIRECTED

BY THE MANUFACTURER. TAPE SHALL BE COLOR CODED GREEN FOR SANITARY SEWER AND FORCE

FILE NAME:

EW_S23.DWG

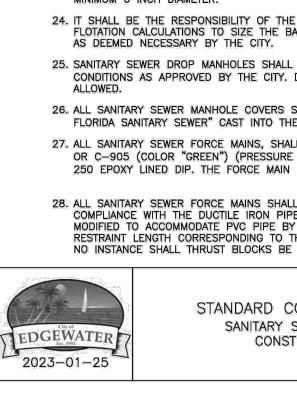
DETAIL REF:

PROCTOR TEST.

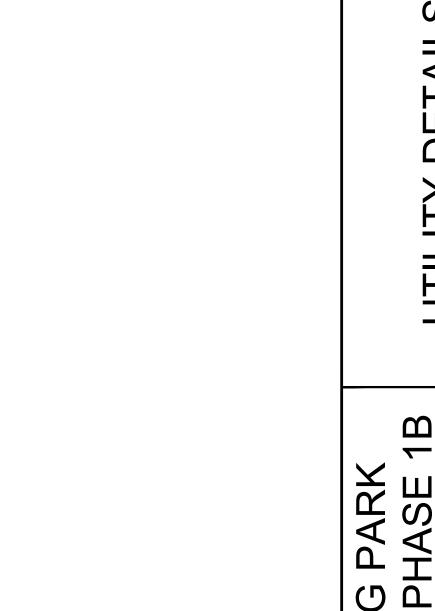
EDGEWATER

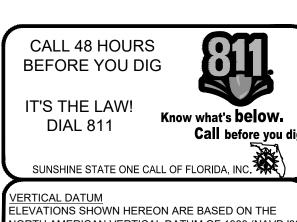
2024-07-20

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES: 13. ALL TESTING REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR / DEVELOPER. 14. ALL LOCAL COLLECTION SANITARY SEWER MANHOLES SHALL BE PRECAST WITH A MINIMUM INSIDE DIAMETER OF 4 FEET. 15. STANDARD MANHOLES SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 400 FEET 16. ALL SEWER FITTINGS TO BE "HARCO" OR CITY APPROVED EQUAL. 17. MANHOLE RIMS SHALL MATCH FLUSH WITH THE FINISH GRADE ELEVATION IN PAVED AREAS AND A MINIMUM OF 0.2 FEET AND MAXIMUM OF 0.5 FEET ABOVE GRADE GENERALLY IN UNPAVED AREAS. 18. THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER MANHOLES IN SUCH A WAY THAT SEWER LINES DO NOT INTERSECT SEALED JOINTS BETWEEN SECTIONS OF THE MANHOLE. 19. RUBBER BOOTS AND STAINLESS STEEL BANDS SHALL BE UTILIZED IN THE CONNECTION OF THE SEWER MAIN TO THE MANHOLES (SEE STANDARD MANHOLE AND BOOT DETAIL). 20. INDIVIDUAL SANITARY SERVICE CONNECTORS ON NEW CONSTRUCTION SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES, AND MUST CONNECT TO SEWER MAIN LINES BY USE OF WYE CONNECTIONS, UNLESS OTHERWISE BE APPROVED BY THE CITY. 21. FOR SINGLE FAMILY HOMES, SINGLE OR DOUBLE FOUR INCH SEWER SERVICES LATERALS SHALL BE CONSTRUCTED SINGLES AT EACH LOT OR UNIT AND LOCATED ON THE DOWNSTREAM SIDE OF THE LOT CENTER LINE, DOUBLES LOCATED ON THE LOT LINES THESE SERVICES SHALL BE EXTENDED 4 FEET ABOVE GROUND AT THE PROPERTY LINE WITH A PVC RISER AND PLUG BEING EASILY VISIBLE FROM THE ROAD. RUBBER SEAL FITTINGS SHALL BE USED ON ALL LINES. NO GLUED JOINTS ARE PERMITTED ON LATERALS, INCLUDING DOUBLES. 22. FOR MULTI-FAMILY AND COMMERCIAL SITES, SIX INCH MINIMUM SEWER SERVICES AND CLEANOUTS SHALL BE PROVIDED AS APPROVED BY THE CITY. 23. SANITARY SEWER LIFT STATIONS AND FORCE MAINS, SIZE, MATERIAL, AND DESIGNS SHALL BE APPROVED BY THE CITY. LIFT STATIONS SHALL BE CONSTRUCTED WITH A MINIMUM WET WELL INTERIOR DIAMETER OF 6 FEET, FORCE MAINS SHALL BE A 24. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO PREPARE AND SUBMIT FLOTATION CALCULATIONS TO SIZE THE BASE OF THE WET WELL, AND ANY MANHOLES 25. SANITARY SEWER DROP MANHOLES SHALL ONLY BE USED UNDER SPECIAL CONDITIONS AS APPROVED BY THE CITY. DROPS LESS THAN 2.0' SHALL NOT BE 26. ALL SANITARY SEWER MANHOLE COVERS SHALL HAVE THE WORDS "EDGEWATER, FLORIDA SANITARY SEWER" CAST INTO THEM. 27. ALL SANITARY SEWER FORCE MAINS, SHALL BE PVC AWWA C-900, OR C-905 (COLOR "GREEN") (PRESSURE FITTINGS, PRESSURE CLASS 150 OR 250 EPOXY LINED DIP. THE FORCE MAIN MINIMUM DEPTH OF COVER SHALL BE 36". 28. ALL SANITARY SEWER FORCE MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION GUIDELINES MODIFIED TO ACCOMMODATE PVC PIPE BY FOLLOWING THE RECOMMENDED INCREASE IN RESTRAINT LENGTH CORRESPONDING TO THE INSTALLATION OF POLYETHYLENE WRAP. IN NO INSTANCE SHALL THRUST BLOCKS BE PERMITTED. STANDARD CONSTRUCTION DETAIL



FILE NAME: EW_S24.DWG SANITARY SEWER DESIGN AND DETAIL REF: CONSTRUCTION NOTES





NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

SHEET NUMBER

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SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

- 29. SANITARY SEWER MANHOLES WHICH HAVE SEWER FORCE MAINS DISCHARGING DIRECTLY INTO THEM SHALL BE FIBERGLASS OR POLY-ETHYLENE LINED. RETRO-FITTING OF MANHOLES WITH LINERS SHALL BE REQUIRED WHEN NEW CONNECTIONS SUCH AS THIS ARE MADE. FIBERGLASS SHALL BE A MINIMUM 1/2" THICKNESS UNLESS APPROVED OTHERWISE BY THE CITY. OTHER TYPES OF LINING METHODS AND MATERIALS MAY BE CONSIDERED ON A CASE BY CASE BASIS.
- 30. THE CITY RESERVES THE RIGHT TO REQUIRE THE DEVELOPER TO PERFORM VACUUM TESTING OF ALL SANITARY MANHOLES, AIR TEST SEWER MAINS, AND REQUIRES THAT ALL SANITARY SEWER MAIN LINES BE TELEVISED PRIOR TO FINAL ACCEPTANCE. LATERALS SHALL BE TELEVISED UPON DEMAND BY THE CITY PRIOR TO
- 31. ALL SEWER MAINS, PRIOR TO ACCEPTANCE BY THE CITY AND PRIOR TO ANY FINAL PAVING OPERATIONS, SHALL BE CLEANED FLUSHED AND TELEVISED USING A "PAN AND TILT" CAMERA BY A CITY APPROVED CONTRACTOR. THE VIDEO SHALL BE NON-STOP WITH AUDIO DESCRIBING WHAT IS BEING REVIEWED. WRITTEN VIDEO LOGS DESCRIBING THE CONDITION OF THE LINES SHALL ACCOMPANY THE TAPE SUBMISSION TO THE CITY PRIOR TO COMMENCING ANY INSTALLATION OF ASPHALT OR CONCRETE PAVEMENT. RE-TAPING MAY BE REQUIRED BY THE CITY IF ADDITIONAL
- 32. ALL MANHOLES WITH FORCE MAIN CONNECTIONS SHALL BE OUTFITTED WITH EGRU LINERS OR
- 33. ALL SEWER LINES WHICH ARE CONSTRUCTED OUTSIDE OF PUBLIC RIGHTS-OF-WAY WITHIN SIDE YARDS, BACKYARDS, AND OTHER POORLY ACCESSIBLE AREAS SHALL BE CONSTRUCTED OF
- 34. SEWER LATERAL LOCATIONS SHALL BE MARKED ALONG THE OUTSIDE OF THE CURB WITH
- CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIROMENTAL PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE WITH CITY PERSONNEL AT THE ENVIRONMENTAL SERVICES DEPARTMENT (AS APPROPRIATE) AT LEAST 24 HOURS PRIOR TO BEGINNING A FULL-DIAMETER FLUSH OF THE MAINS PRIOR TO THE COMMENCEMENT OF PRESSURE TESTING (SUBJECT TO AVAILABILITY).
- DIAMETER AND PRIMARY TRANSMISSION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS. LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR.



FINISHED GRADE-

COMMON FILL-

UNDISTURBED -

(SEE NOTE 3)

NOTES:

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

FILE NAME: EW_S25.DWG DETAIL REF:

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

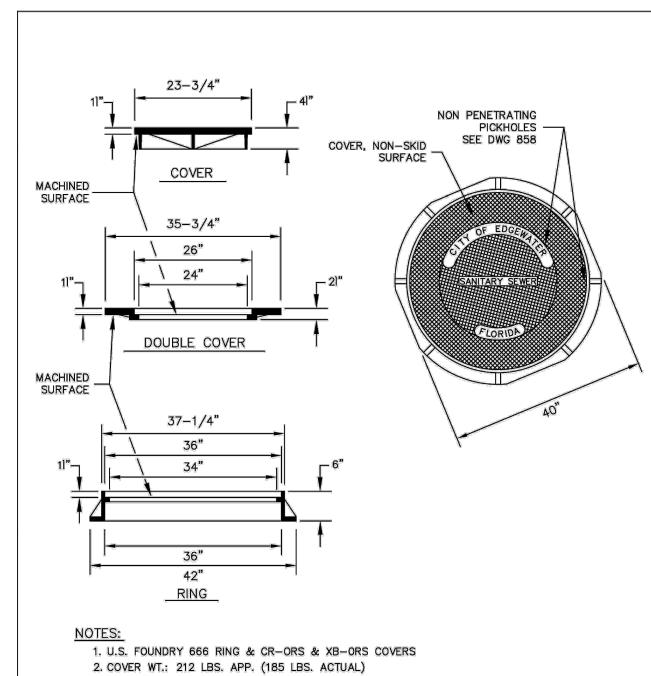
- 39. ANY TIE INTO AN EXISTING MANHOLE WILL BE COORDINATED WITH THE CITY, AND ALL CONFINED SPACE HAZARDS AND PROCEDURES WILL BE FOLLOWED.
- 40. ANY TIE INTO AN EXISTING SYSTEM WILL BE SWEPT IN THE DIRECTION OF FLOW. 41. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL OSHA, DOT, OR ANY OTHER RULES & REGULATIONS THAT MAY APPLY.
- 42. AS A GENERAL RULE, THE NUMBER OF JOINTS SHALL BE LIMITED WHENEVER POSSIBLE. IN SPECIAL CASES WHERE A POINT REPAIR TO AN 8"TO 12" PVC SEWER MAIN IS REQUIRED, THE PROPER RIGID WRAP AROUND SLEEVE SUCH AS A JCM-210 OVERSIZED DUCTILE IRON COUPLING OR AN APPROVED EQUAL MAY BE ALLOWED BY SPECIAL APPROVAL BY THE
- 43. ALL IN-LINE SANITARY SEWER FORCE MAIN VALVES SHALL BE RESILIENT SEAT (AWWA C-509) VALVES FEATURING A LINED DUCTILE IRON BODY.
- 44. ALL TAPPING OF MAINS AND CORING OF MANHOLES SHALL BE COORDINATED WITH THE CITY BY AN APPROVED CONTRACTOR AND BILLED IN ACCORDANCE WITH THE ADOPTED FEE RESOLUTION. SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE THE WORK DIRECTLY WITH THE ENVIRONMENTAL SERVICE DEPARTMENT. SUBSEQUENTLY, THE CONNECTION SHALL BE SCHEDULED TO COMMENCE ON THE APPROPRIATE DAY AND TIME ESTABLISHED BY CITY.
- 45. WITH RESPECT TO TIE-IN CONNECTIONS AND CORING OPERATIONS, THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING
- 46. ALL WORK PERFORMED UPON SANITARY SEWER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY A LICENSED UNDERGROUND UTILITY CONTRACTOR, OR LICENSED GENERAL CONTRACTOR, WHO IS LICENSED IN THE STATE OF FLORIDA AND REGISTERED
- 47. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AS-BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THE
- 48. FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE LOCATION, OF ALL FORCE MAINS MEASURED FROM THE BACK OF CURB (OR EDGE OF PAVEMENT, IF
- 49. ALL HDPE PIPE INSTALLED FOR SEWAGE FORCE MAINS SHALL BE SDR 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HDPE PIPE SHALL BE SIZED TO MATCH THE EXTERNAL DIAMETER OF THE PVC OR DIP TO WHICH IT IS ATTACHED.
- 50. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
- 51. ALL UTILITY INSTALLATIONS ARE SUBJECT TO REVIEW AND APPEAL BY THE CITY OF EDGEWATER. ALL STRUCTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED SHALL MEET QUALITY AND PERFORMANCE STANDARDS PRIOR TO ACCEPTANCE. SUBSTANDARD INSTALLATIONS MAY BE REJECTED, REMEMBER MEASURES ARE SUBJECT TO CITY APPROVAL.

EDGEWATER 7	
Inc. 1951	
2023-01-25	

STANDARD CONSTRUCTION DETAIL SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

EW_S26.DWG DETAIL REF:

FILE NAME:



- 3. DOUBLE COVER WT.: 215 LBS. APP.
- 4. RING WT.: 225 LBS. APP.
- 8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES, SURFACE RESTORATION WITHIN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.



STANDARD CONSTRUCTION DETAIL TYPE "B" BEDDING AND TRENCH DETAIL TYPICAL FOR WATER, SEWER, FORCE MAIN, STORM DRAIN AND RECLAIMED WATER MAIN INSTALLATIONS)

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER

2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180, (98% DENSITY REQUIRED UNDER DRIVEWAYS, PAVEMENT AND STRUCTURES). 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE "A" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.

4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.

6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.

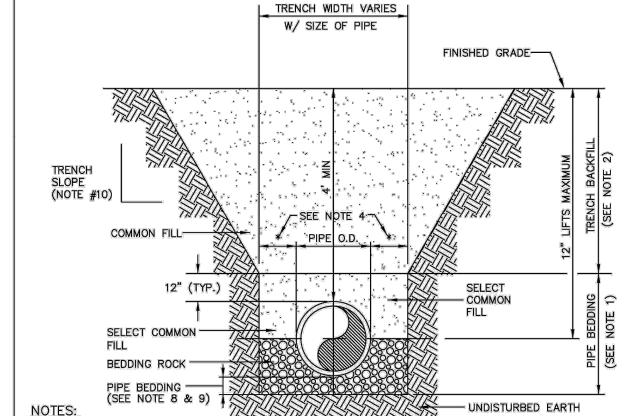
7. REFER TO OSHA REQUIREMENTS FOR SLOPING, SHEETING AND BRACING IN EXCAVATIONS.

5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.

FILE NAME: EW_S29.DWG DETAIL REF:

STANDARD CONSTRUCTION DETAIL SANITARY SEWER DOUBLE MANHOLE COVER

DETAIL REF:



1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO

- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180. (98% DENSITY REQUIRED UNDER PAVEMENT, DRIVEWAYS AND STRUCTURES.)
- 3. USE TYPE "A" BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
- (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
- 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.
- 7. REFER TO SECTION 32.5 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
- 8. GRAVITY SEWERS SHALL UTILIZE TYPE "A" BEDDING, WHERE UNSUITABLE MATERIAL EXISTS. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE
- 9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE, CITY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
- 10. REFER TO OSHA REQMTS, FOR SLOPING, SHEETING AND BRACING IN EXCAVATIONS.



STANDARD CONSTRUCTION DETAIL TYPE "A" BEDDING AND TRENCH DETAIL (SPECIAL GRAVITY SEWER INSTALLATIONS)

FILE NAME: EW_S28.DWG DETAIL REF:

Call before you di

SUNSHINE STATE ONE CALL OF FLORIDA, INC. /ERTICAL DATUM ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BEFORE YOU DIG

IT'S THE LAW! DIAL 811

SHEET NUMBER

FINAL ACCEPTANCE WHEN IT IS SUSPECTED THAT A PROBLEM EXISTS.

CLEARING OR CORRECTIVE ACTIONS ARE NECESSARY.

OTHER TYPES OF LINERS APPROVED BY THE CITY. IN ADDITION, THE CITY MAY REQUIRE LINERS TO BE INSTALLED IN AREAS WHERE THE ENVIRONMENTAL SERVICES DEPARTMENT BELIEVES THE

C-900 PVC. ABSOLUTELY NO USE OF PLASTIC STYRENE FITTINGS SHALL BE ALLOWED.

A SAW CUT "V", OR BY A METAL TAB SET INTO THE PAVEMENT.

35. CONTEC A-2000 PVC PIPE SHALL NOT BE ALLOWED FOR USE.

36. EZ-WRAP PLASTIC, AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, SHALL BE USED ON THE OUTSIDE OF ALL MANHOLE AND WETWELL JOINTS. APPLY ONE LAYER OF 9" WRAP CENTERED ON EACH JOINT. A CITY INSPECTOR SHALL PERSONALLY INSPECT ALL JOINT SEALS PRIOR TO BACKFILLING OPERATIONS.

37. ALL PROPOSED SEWER FORCE MAINS SHALL BE FLUSHED, PRESSURE TESTED AND

38. THE CITY MAY REQUIRE THE CONTRACTOR TO PIG FORCE MAINS 6" AND GREATER IN



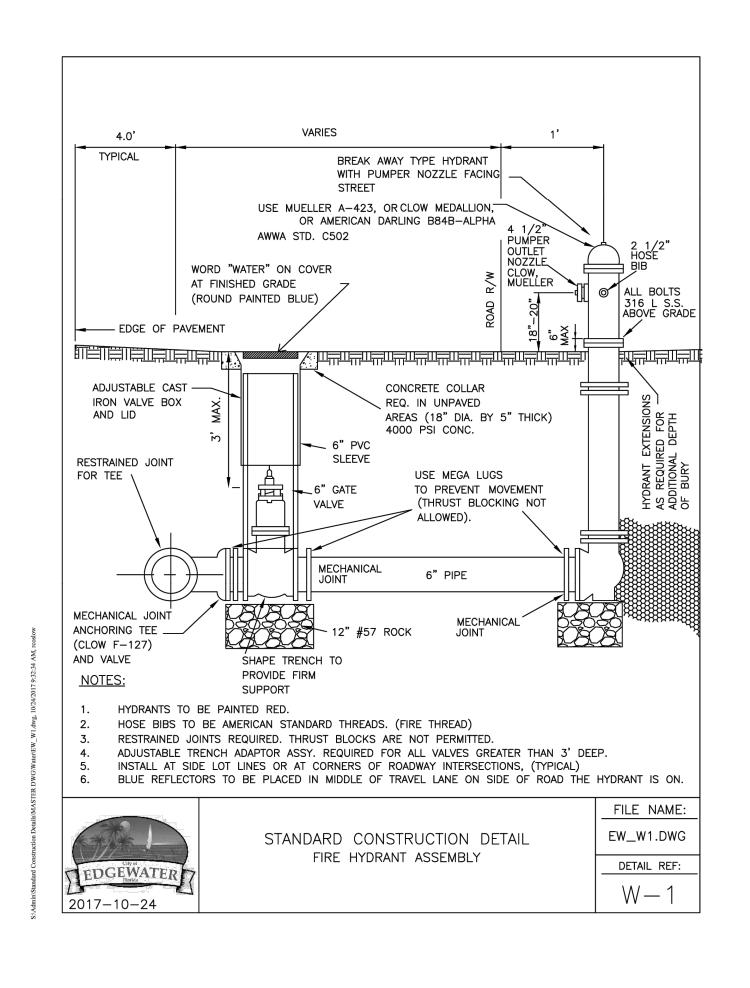
STANDARD CONSTRUCTION DETAIL

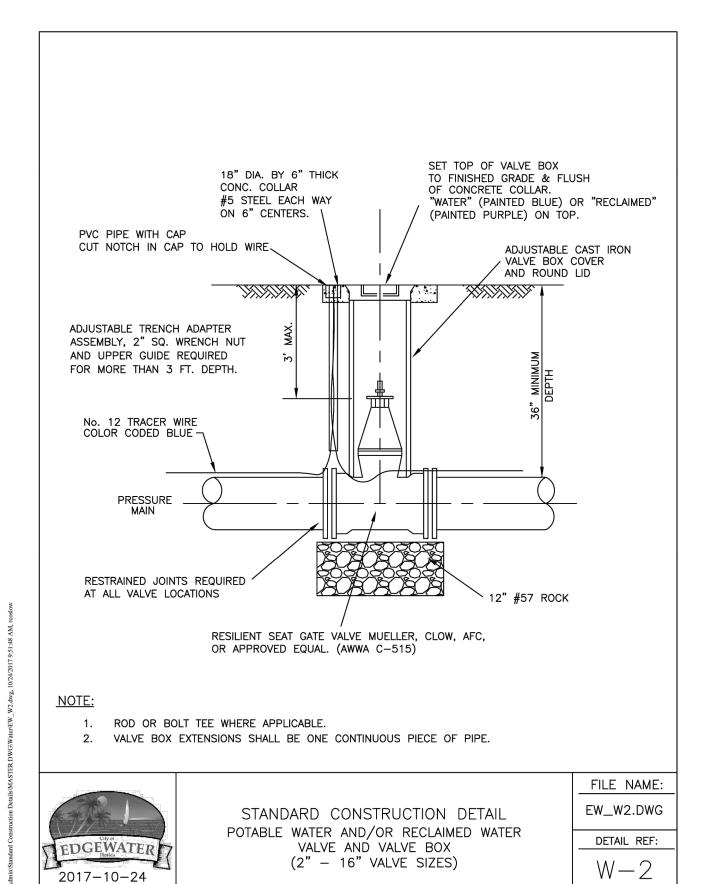
5. MATERIAL: ASTM-A48 CLASS 30B GRAY IRON

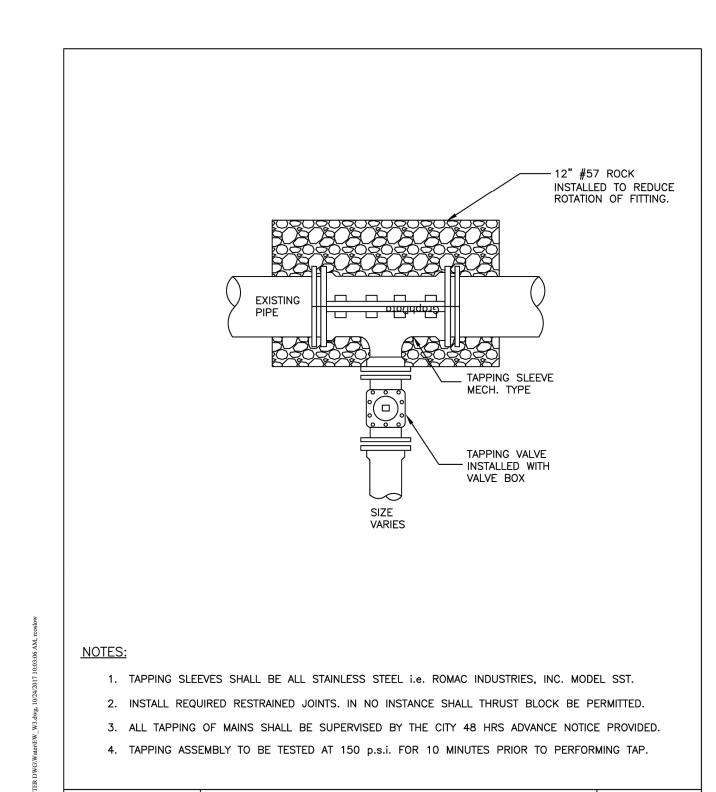
EDGEWATER

EW_S30.DWG

FILE NAME:







STANDARD CONSTRUCTION DETAIL

TAPPING VALVE AND SLEEVE

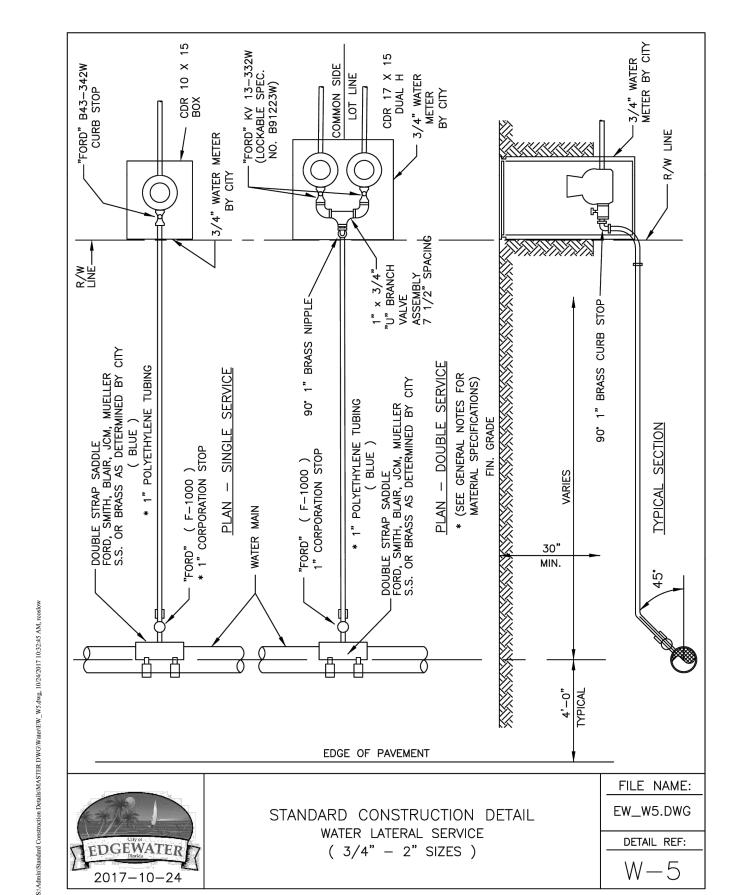
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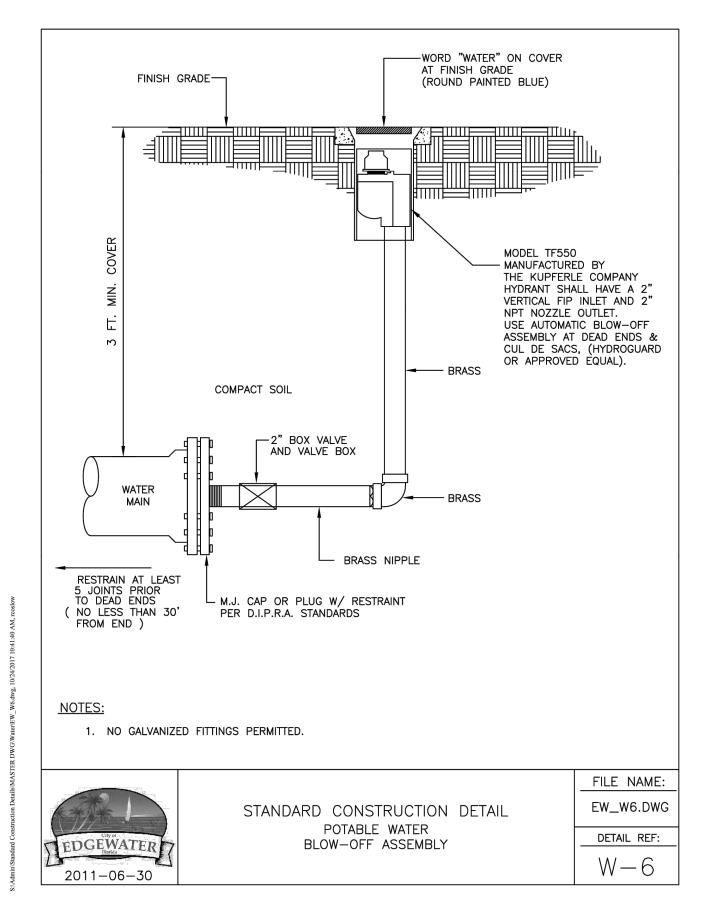
2011-06-30

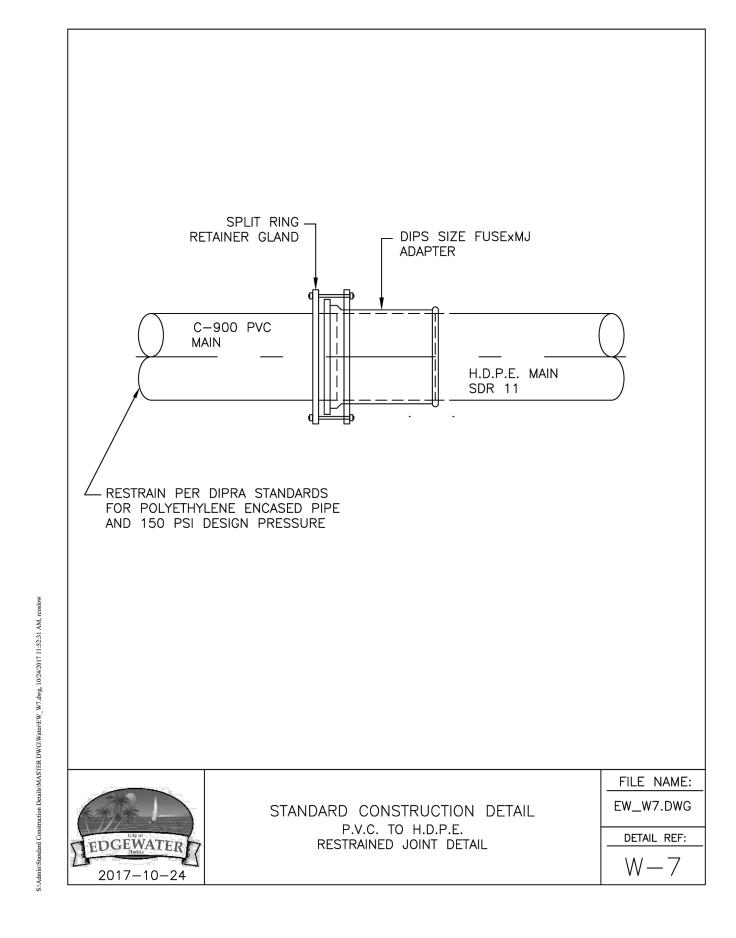
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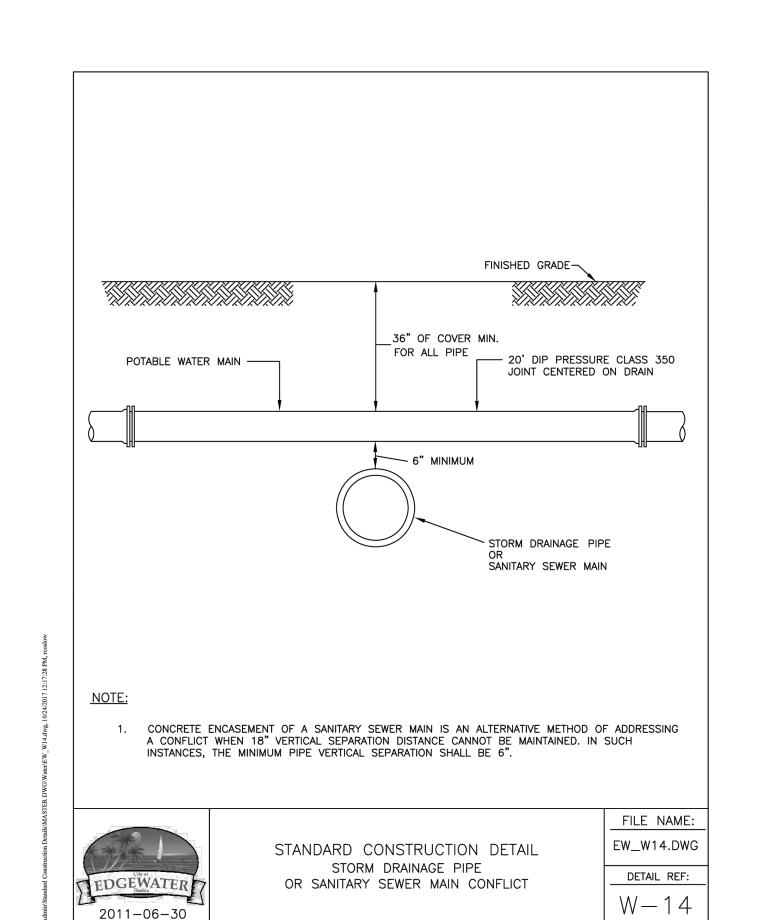
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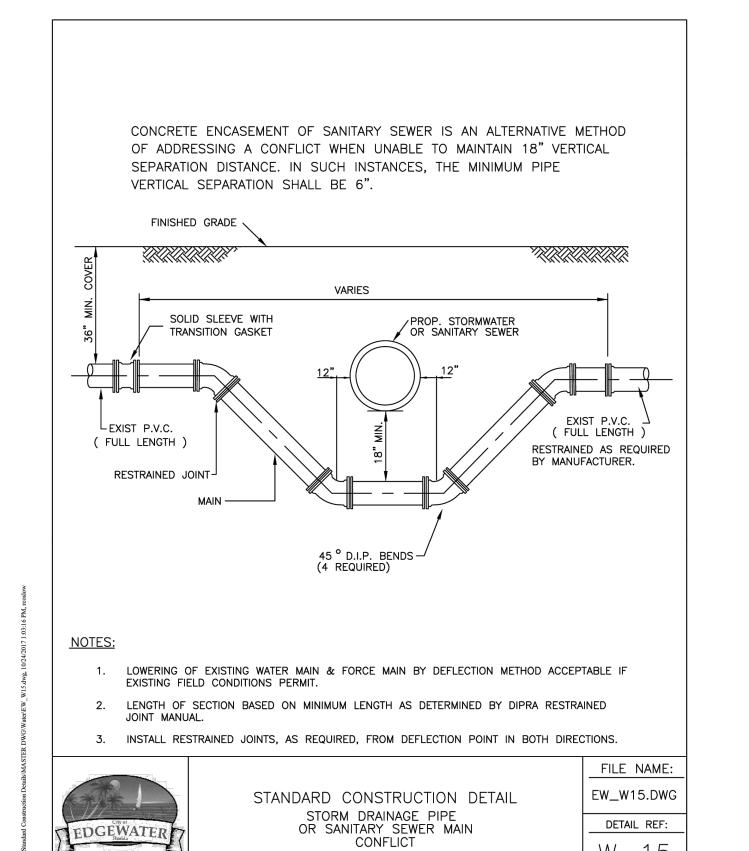
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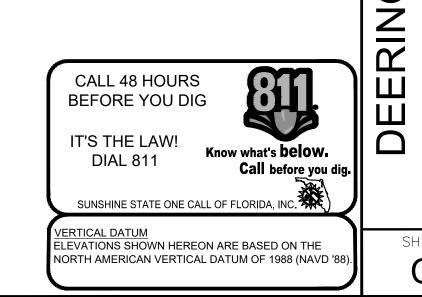






CONFLICT

2011-06-30



SHEET NUMBER C-353

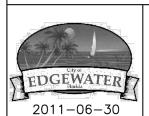
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MAIN MAY PASS OVER STORM LINE IF 36" OF COVER IS PROVIDED OVER WATER MAIN OR RECLAIMED WATER LINE AND ADEQUATE CLEARANCE IS PROVIDED FROM THE STORM SEWER PIPE. PIPE SHALL BE DEFLECTED AROUND DRAINAGE INLET IN ACCORDANCE WITH THE RESTRAINED JOINT

GUIDELINES OF THE DIPRA AND ADAPTED TO PVC PIPE AS NECESSARY



STANDARD CONSTRUCTION DETAIL MAIN INSTALLATION BETWEEN DRAINAGE INLET AND SIDEWALK

EW_W16.DWG DETAIL REF:

FILE NAME:

STANDARD CONSTRUCTION DETAIL TEMPORARY JUMPER CONNECTION EDGEWATER

2011-06-30

FILE NAME: EW_W20.DWG DETAIL REF:

2" IRON COMPRESSION 2" GATE OR COUPLING BALL VALVE 4" NIPPLE 4"NIPPLE 2" G.I.P. 90 ELBOW > 2" G.I.P. 90 ELBOW 3'-7" RISER MINIMUM SPACE REQUIRED CITY OF EDGEWATER ENVIRONMENTAL SERVICES DEPT. 2" WATER RISER METER AND 2" BACKFLOW PREVENTION DEVICE FINISHED GRADE RESTRAINED JOINTS AS REQUIRED (TYP.) CUSTOMER'S PUBLIC SIDE PROVIDE SUPPORT OR PROTECTIVE POSTS.

FILE NAME: EW_W21.DWG STANDARD CONSTRUCTION DETAIL CONTRACTORS' INSTALLATION REQUIREMENTS DETAIL REF: EDGEWATER FOR A 2" TEMPORARY METER 2011-06-30

-DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY SCH. 40 GALVANIZED PIPE AND FITTINGS PROVIDE TEMPORARY SUPPORTS AS REQUIRED. 2" BALL TYPE — CURB STOP WITH LOCK WING 3/4" HOSE BIB W/VACUUM BREAKER ~2" SDR9 POLY 2" SDR9 POLY—OR SCH. 80 PVC. OR SCH. 80 PVC DOUBLE STRAP STAINLESS SADDLE 2" CORP. STOP-2" CORP. STOP NEW WATER LINE WATER LINE TIE-IN VALVE MUST BE CLOSED AND REMAIN LOCKED. CITY TO PROVIDE LOCKING MECHANISM. VALVE WILL BE OPERATED BY CITY PERSONNEL ONLY.

POTABLE WATER DESIGN AND CONSTRUCTION NOTES (CONTD.)

15. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED TO MAKE THEM EASILY ACCESSIBLE TO FIRE PERSONNEL IN CASE OF A FIRE. THE PRIMARY HYDRANT PORT SHOULD ALWAYS FACE THE

16. AS STANDARD PRACTICE, WATER MAINS SHALL BE INSTALLED 4 FEET OFF THE BACK OF CURB OR AS APPROVED BY THE CITY. ALL WATER MAINS SHALL BE NSF-APPROVED FOR POTABLE WATER USE, AND SHALL HAVE

A MINIMUM COVER OF 36 INCHES. 18. ALL PROPOSED WATER MAINS SHALL BE FLUSHED, DISINFECTED AND BACTERIOLOGICALLY

CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.

19. WATER MAINS SHALL BE C-900 PVC OR C-905 CL 150 (COLOR"BLUE") OR D.I.P. PRESSURE CLASS 350 STANDARD CEMENT LINED UNLESS OTHERWISE APPROVED BY THE CITY.

20. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE DEPARTMENT OF HEALTH AND AS-BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THIS SYSTEM .

21. WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE CITY'S FIRE (WATER) FLOW CODE.

22. IN AREAS WHERE RECLAIMED WATER IS NOT AVAILABLE THE CONTRACTOR SHALL BE REQUIRED TO (UPON SATISFACTORY COMPLETION OF THE PRESSURE TEST) TRANSFER THE WATER FROM THE POTABLE WATER LINES TO THE RECLAIMED WATER LINES FOR UTILIZATION IN THEIR PRESSURE TEST.

23. IN AREAS WHERE RECLAIMED WATER IS AVAILABLE, RECLAIMED WATER WILL BE UTILIZED IN THE PRESSURE TESTING OF NEW RECLAIMED WATER LINES.

24. ALL POTABLE WATER MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) GUIDELINES. IN THE EVENT THAT PVC FITTINGS ARE SPECIFIED, THE RESTRAINT SHALL BE MODIFIED IN ACCORDANCE WITH THE RECOMMENDED ADDITIONAL RESTRAINT LENGTH REQUIRED FOR PIPE WRAPPED WITH POLYETHYLENE

25. MEGALUGS, BOLTLESS RESTRAINED JOINTS, GRIPPER GASKETS, OR STAR GRIPS SHALL BE USED ON ALL RESTRAINED JOINT INSTALLATIONS. MINIMUM DEPTH OF BURY ON PIPES NOT MEETING REQUIRED COVER REQUIREMENTS SHALL FOLLOW THE MOST RECENT DIPRA THRUST

26. GRIPPER RING GASKETS BY ROMAC AND OR STAR AU-GRIP MAY BE USED AS APPROPRIATE FOR RESTRAINING PRESSURE PIPE TO FITTINGS, VALVES, ETC.

27. WATER SYSTEMS SHALL BE PRESSURE TESTED AT 150 PSI STATIC PRESSURE FOR A PERIOD OF 4 HOURS PER AWWA STANDARDS.

28. ALL WATER SERVICES SHALL BE MARKED WITH AN "/\" SAW CUT INTO THE CURB AND METAL TABS SET INTO THE PAVEMENT.

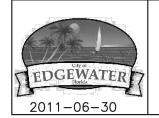
29. ALL WATER VALVES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB AND

METAL TABS SET INTO THE PAVEMENT. BLOW-OFFS SHALL BE MARKED SIMILARLY,

RESTRAINT DESIGN GUIDELINES.

30. WATER SERVICES SHALL BE NORMALLY DOUBLE 1" SERVICES LOCATED AT SIDE LOT LINES. IN INSTANCES WHERE SERVICES NEED TO BE OFFSET, 3/4" SINGLE SERVICES SHALL BE SPECIFIED. THESE SERVICES MAY BE OFFSET A MAXIMUM OF 2.0' FROM SIDE LOT LINES.

31. ALL TAPPING OF MAINS SHALL BE SUPERVISED BY THE CITY SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR. THE CONNECTION SHALL BE SCHEDULED TO COMMENCE BETWEEN 8:00 A.M. AND NOON ON THE APPROPRIATE DAY.



STANDARD CONSTRUCTION DETAIL POTABLE WATER DESIGN AND CONSTRUCTION NOTES

FILE NAME: EW_W23.DWG DETAIL REF: W - 23

CONSTRUCTION NOTES (CONTD.)

PROVIDE SUPPORT AND/OR PROTECTIVE MEASURES TO PREVENT ABOVE GROUND PIPE BEING BROKEN.

32. ALL PROPOSED POTABLE WATER MAINS SHALL BE FLUSHED, DISINFECTED, PRESSURE TESTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE WHEN APPROPRIATE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIROMENTAL PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE WITH CITY PERSONNEL AT THE WATER TREATMENT PLANT AT LEAST 48 HOURS PRIOR TO BEGINNING

FLUSH OF THE MAINS PRIOR TO THE COMMENCEMENT OF PRESSURE TESTING. 33. THE CONTRACTOR SHALL BE REQUIRED TO PIG ALL POTABLE MAINS IN EXCESS OF 8" IN DIAMETER AND PRIMARY DISTRIBUTION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS.

LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR. 34. WITH RESPECT TO TIE-IN CONNECTIONS , THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.

35. ALL WORK PERFORMED UPON POTABLE WATER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY CONTRACTOR OR GENERAL CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND

36. FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE PROPOSED LOCATIONS OF ALL WATER MAINS MEASURED FROM THE BACK OF CURB (OR EDGE OF PAVEMENT,

37. POTABLE WATER SYSTEM EXTENSIONS MAY NOT BE USED PRIOR TO FINAL TESTING, CLEARANCE AND ACCEPTANCE BY THE CITY OF EDGEWATER. THIS INCLUDES CONSTRUCTION

WATER REQUIRED FOR SEWER LINE CLEANING OR RELATED USES. 38. ALL H.D.P.E. PIPE UTILIZED FOR WATER, FORCE MAIN AND/OR RECLAIMED WATER MAIN

EXTENSIONS SHALL BE S.D.R. 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HDPE PIPE SHALL BE SIZED TO MATCH THE EXTERNAL DIAMETER OF THE PVC OR DIP PIPE TO WHICH

39. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE O THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.

40. ALL VALVES 2" AND LARGER SHALL BE STANDARD 2" BOX VALVES (CORP STOPS ARE NOT ACCEPTABLE).

41. WHERE POTABLE WATER AND SANITARY SEWER MAINS CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL CLEARANCE OR WHERE THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE OR ENCLOSED IN A WATER TIGHT CARRIER PIPE, OR UPGRADED TO DUCTILE IRON PIPE OR PRESSURE RATED PVC PIPE (MEETING THE AWWA C-900 OR C905 SPECIFICATION) FOR A MINIMUM LENGTH OF (20) FEET, CENTERED ON THE POINT OF CROSSING. A MINIMUM HORIZONTAL SEPARATION OF (10) TEN FEET (EDGE TO EDGE) BETWEEN POTABLE WATER MAINS AND SEWER MAINS SHALL BE MAINTÀINÉD WHEN AT ALL POSSIBLE. WHEN THE 10-FOOT HORIZONTAL SEPARATION CANNOT BE MAINTAINED THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT LEAST 18" ABOVE THE SEWAGE MAIN. ALTERNATIVELY, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE OR ENCLOSED IN A WATER TIGHT CARRIER PIPE, OR UPGRADED TO DUCTILE IRON PIPE OR PRESSURE RATED PVC PIPE (MEETING THE AWWA C-900 OR C-905 SPECIFICATION) AND



STANDARD CONSTRUCTION DETAIL POTABLE WATER DESIGN AND CONSTRUCTION NOTES

FILE NAME: EW_W24.DWG DETAIL REF: W - 24

DUCTILE IRON PIPE FITTINGS

IN ACCORDANCE WITH ACCEPTABLE STANDARDS AND COMPLY WITH THE FOLLOWING SPECIFICATIONS:

A.S.T.M. A536 MINIMUM GRADE 70-50-5 IN ACCORDANCE WITH A.W.W.A. C153 (A.N.S.I. A21.53)

IN ACCORDANCE WITH A.W.W.A. C153 (ANSI A21.53). THREE TIMES WATER WORKING PRESSURE (350 PSI). BODY CAPABLE OF WITHSTANDING HYDROSTATIC TEST OF 1050 PSI.

LAYING LENGTH:

MECHANICAL

ACCEPTABLE MANUFACTURERS: TYLER, CLOW, GRIFFIN, U.S. PIPE, UNION FOUNDRY, AMERICAN CAST IRON OR APPROVED EQUAL



FILE NAME: EW_W25.DWG DETAIL REF:

ALL MECHANICAL JOINT DUCTILE IRON PIPE FITTINGS SHALL BE

MATERIAL:

CLASS 350 IN ACCORDANCE WITH A.W.W.A. C153 (A.N.S.I. A21.53) 350 PSI WATER WORKING

TESTING:

I.D. EQUAL TO I.D. OF CLASS 50/51 DUCTILE IRON PIPE, THUS ALLOWING THE FULL FLOW

SHORT BODY (COMPACT)

IN ACCORDANCE WITH A.N.S.I./A.W.W.A. C111/A21.11

GASKETS:

SBR IN ACCORDANCE WITH A.W.W.A. C111 A.N.S.I. A21.11

TEE HEAD BOLTS:

STANDARD CONSTRUCTION DETAIL TECHNICAL SPECIFICATIONS FOR MECHANICAL JOINT DUCTILE IRON PIPE FITTINGS

TECHNICAL SPECIFICATIONS FOR MECHANICAL JOINT

PRESSURE:

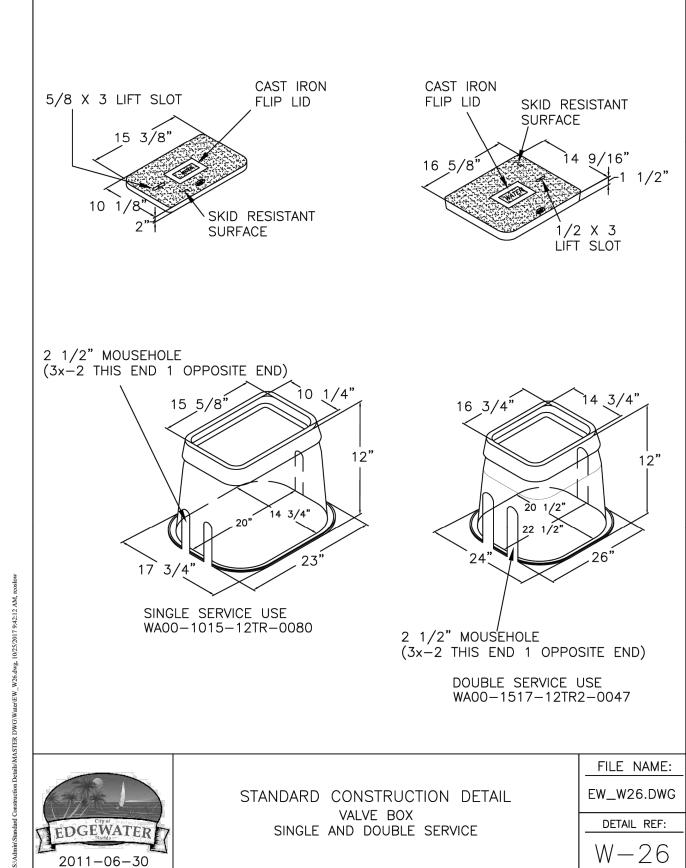
CEMENT LINING:

IN ACCORDANCE WITH A.W.W.A. C104 (A.N.S.I. A21.4)

JOINTS:

COR-TEN IN ACCORDANCE WITH A.W.W.A. C111 (A.N.S.I. A21.11)





POTABLE WATER DESIGN AND CONSTRUCTION NOTES

1. THE CITY'S PUBLIC UTILITIES DEPARTMENT (424-2460) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING

2. DEWATERING SHALL BE PROVIDED TO KEEP GROUNDWATER ELEVATION A MINIMUM OF 6

MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN

TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 98% IN PAVED AREAS AND 95% IN UNPAVED AREAS IN

5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TESTS BE PROVIDED AT POINTS 1 FOOT ABOVE THE PIPE AND AT 1 FOOT VERTICAL

6. 3" METALLIZED PIPE LOCATION TAPE SHALL BE LOCATED BETWEEN 15" AND 24" BELOW FINISHED

7. ALL SINGLE RESIDENTIAL WATER SERVICES SHALL BE 3/4", DOUBLE RESIDENTIAL SERVICES SHALL BE 1", AND COMMERCIAL SERVICES 1-1/2" OR 2". POLYETHYLENE TUBING SHALL BE

POLYETHYLENE TUBING SHALL BE CTS 3408 HIGH DENSITY TUBING, BLUE IN COLOR, AND

RATED FOR A MINIMUM OF 200 P.S.I. WITH SDR OF 9 (CTS). THE TUBING SHALL HAVE A VIRGIN HIGH DENSITY POLYETHYLENE CENTER FOR WHICH THE MANUFACTURER SHALL FURNISH A CERTIFICATE OF PURITY. THE TUBING SHALL HAVE UV PROTECTION AND SHALL

NOT BE AFFECTED BY DIRECT SUNLIGHT. THE TUBING SHALL COMPLY WITH OR EXCEED THE APPLICABLE STANDARDS OF A.S.T.M. D1248, D3350, D2239, D2737, N.S.F. 14 AND

THE GROUND AND ANY "U" BRANCHES FOR DOUBLE SERVICES SHALL BE AT GROUND

GRADE OR AS SPECIFIED BY MANUFACTURER FOR ALL PVC LINES. MARKER TAPE SHALL BE USED

TREATED) EXTENDING 4 FEET ABOVE GRADE, WITH WATER SERVICES SECURED 12" MAXIMUM ABOVE

STANDARD CONSTRUCTION DETAIL

POTABLE WATER DESIGN AND

CONSTRUCTION NOTES

INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET.

ON ALL DUCTILE IRON PIPE, AND 12 GUAGE TRACING WIRE AS WELL.

ACCEPTABLE MANUFACTURERS: ENDOT ENDO PURE OR APPROVED EQUAL

8. ALL WATER SERVICE ENDINGS SHALL BE MARKED WITH A 2" X 4" LUMBER (PRESSURE

WATER VALVES SHALL BE PLACED AT ALL STREET INTERSECTIONS AND AT MAXIMUM

10. AT ALL WATER MAIN TEES AND CROSSES, VALVES SHALL BE INSTALLED ON ALL LEGS

A. RESILIENT SEAT GATE VALVES 24" DIAMETER AND SMALLER (AWWA C-509)

12. ALL WATER VALVES SHALL BE ADJUSTED TO FINISHED GRADE WITH CONCRETE COLLARS AND

13. UPON FINAL ACCEPTANCE OF NEW WATER SYSTEMS, WATER VALVES SHALL BE COMPLETELY OPENED BY PUBLIC UTILITIES PERSONNEL. AT NO TIME SHALL CONTRACTOR OPERATE

14. TYPICALLY, A MINIMUM OF ONE FIRE HYDRANT SHALL BE LOCATED AT EVERY INTERSECTION. OTHER FIRE HYDRANTS SHALL BE LOCATED SO AS TO PRODUCE A MAXIMUM 375 FEET HOSE LAY ALONG THE STREET FOR ALL RESIDENTIAL BUILDINGS.

USED, IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

A.W.W.A. C901 AND SHALL COME WITH A LIFETIME WARRANTY.

B. BUTTERFLY VALVES GREATER THAN 24" (AWWA C-504) C. TAPPING VALVES WITH MECHANICAL TAPPING SLEEVE

THE CAPS PAINTED BLUE TO MAKE THEM PLAINLY VISIBLE.

LEVEL. ALL SERVICES SHALL BE LOCKED.

11. APPROVED WATER VALVE TYPES ARE THE FOLLOWING:

SPACINGS OF 750 FEET.

ANY EXISTING VALVES.

EDGEWATER

2011-06-30

3. ALL WATER MAINS SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE

ANY POTABLE WATER SYSTEM CONSTRUCTION.

INCHES BELOW WATER MAIN BEING LAID

ACCORDANCE WITH AASHTO T-180.

GRANULAR MATERIAL.

CALL 48 HOURS BEFORE YOU DIG IT'S THE LAW! Know what's **below**. DIAL 811 Call before you di SUNSHINE STATE ONE CALL OF FLORIDA, INC. ERTICAL DATUM ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).

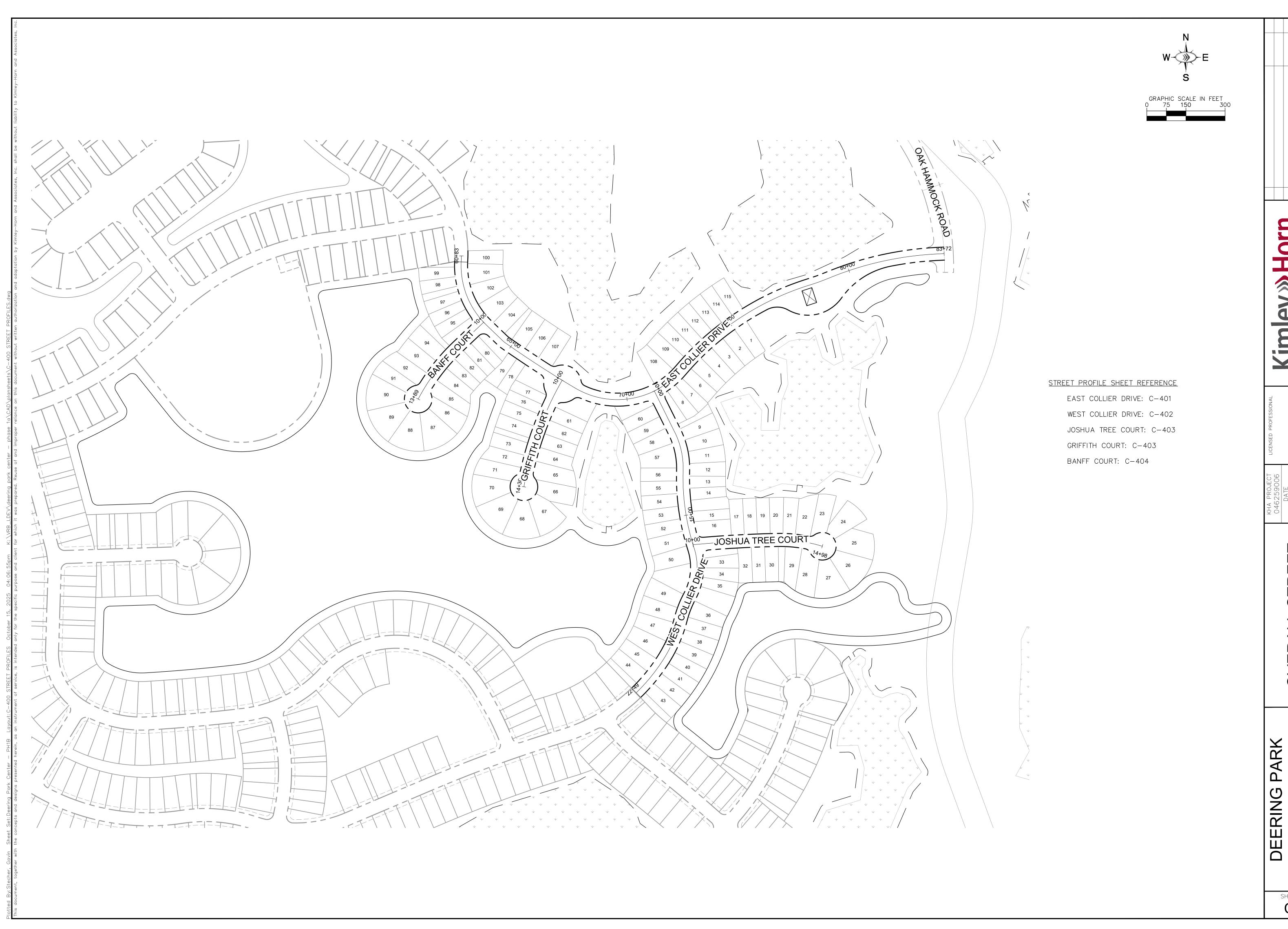
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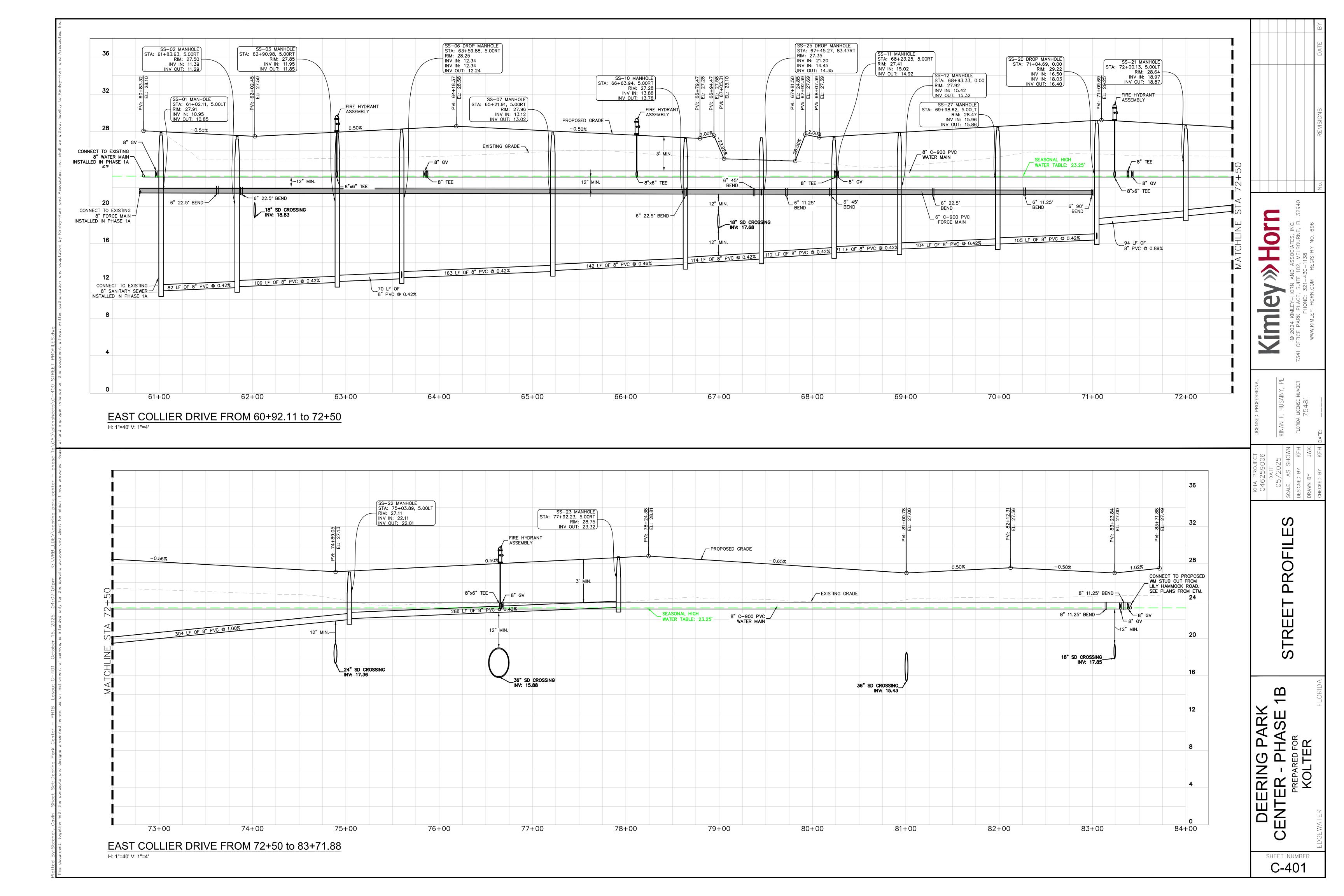
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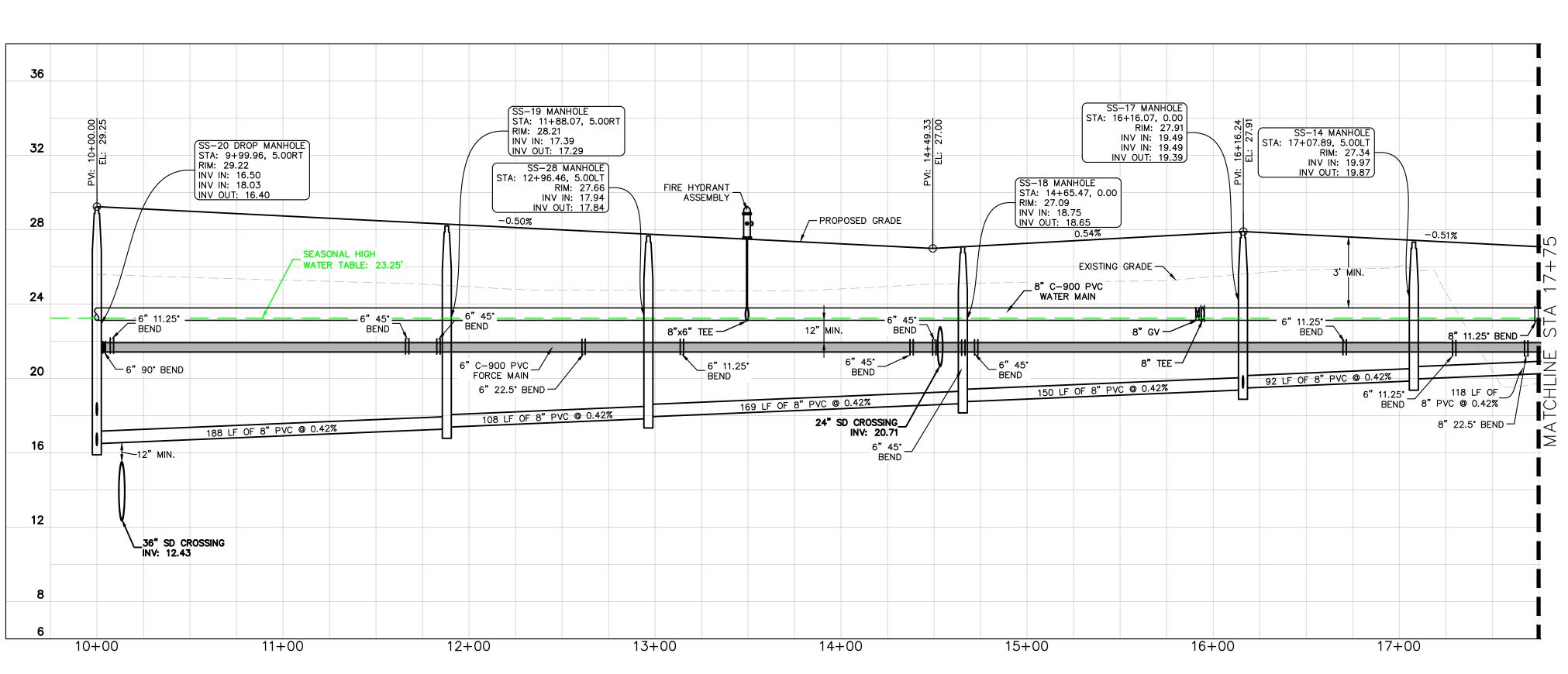
EW_W22.DWG

DETAIL REF:

 \Box







WEST COLLIER DRIVE FROM 10+00 to 17+75
H: 1"=40' V: 1"=4'



WEST COLLIER DRIVE FROM 17+75 to 22+49.21
H: 1"=40' V: 1"=4'

SHEET NUMBER
C-402

LICENSED PROFESSIONAL

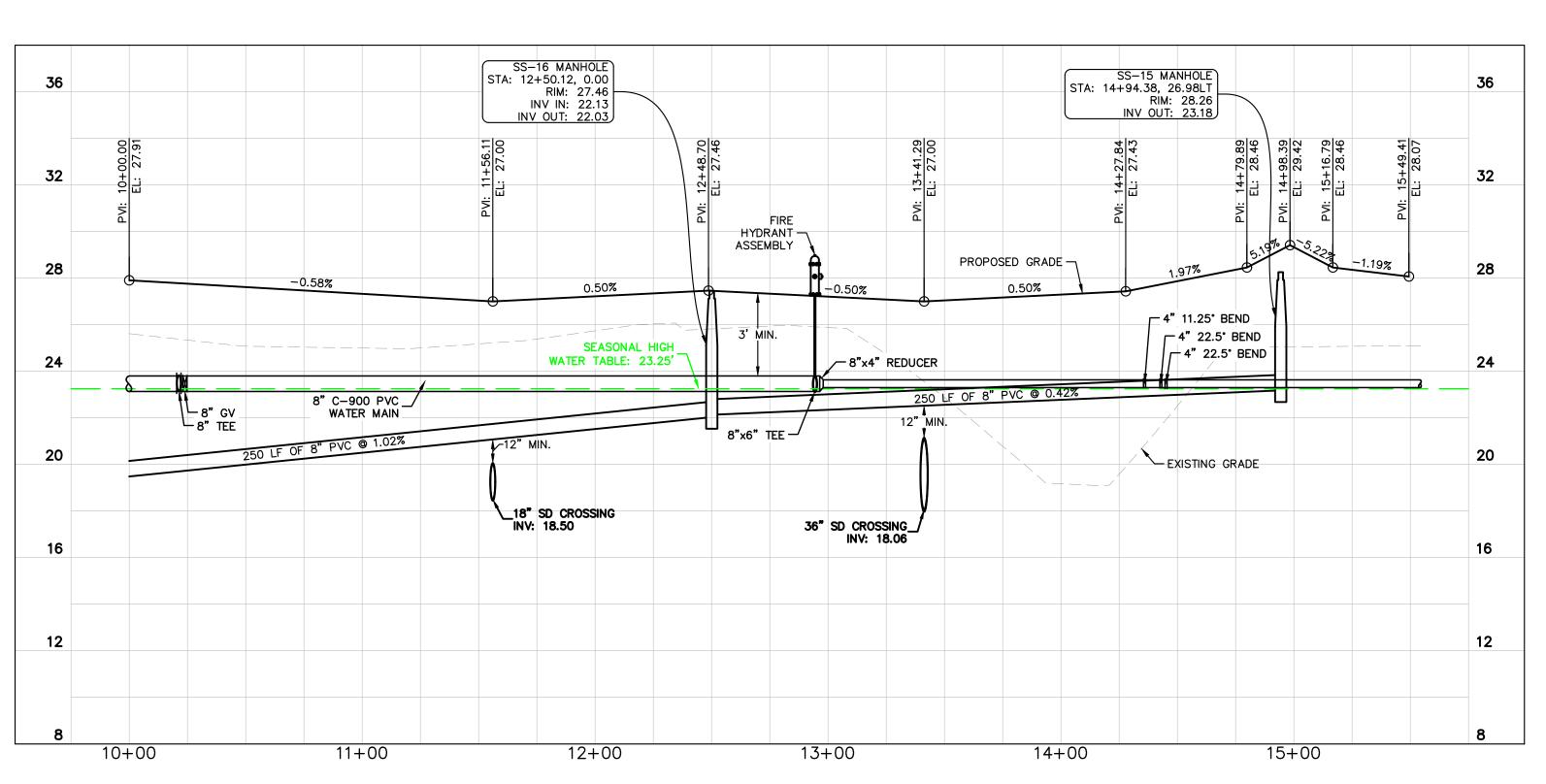
KINAN F. HUSAINY, PE

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7541 OFFICE PARK PLACE, SUITE 102, MELBOURNE, FL 32940

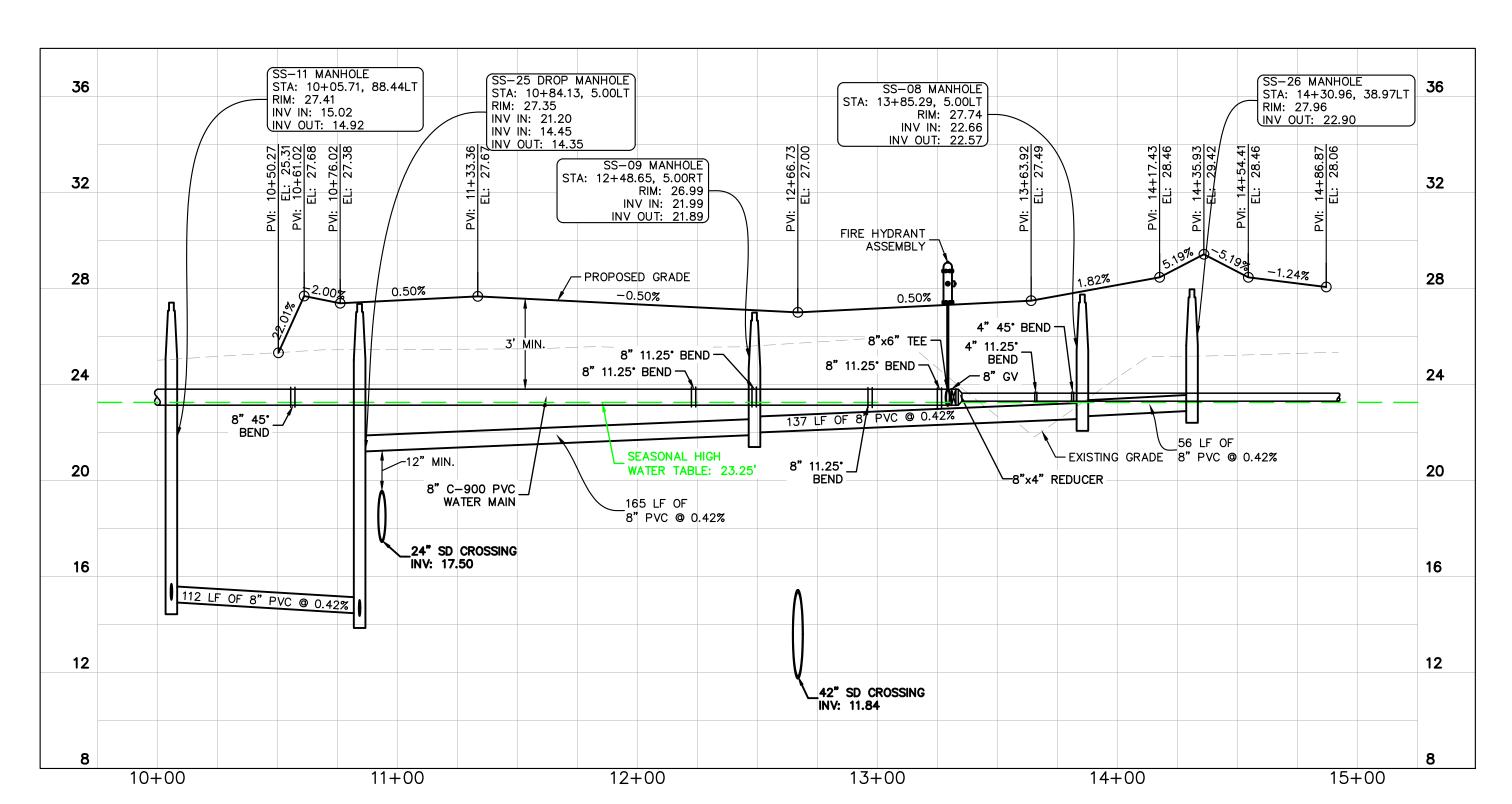
DATE
05/2025
SCALE AS SHOWN
DESIGNED BY KFH

STREET PROFILES

DEERING PARK
CENTER - PHASE 1B
PREPARED FOR
KOLTER



JOSHUA TREE COURT FROM 10+00 to 15+06.30 H: 1"=40' V: 1"=4'

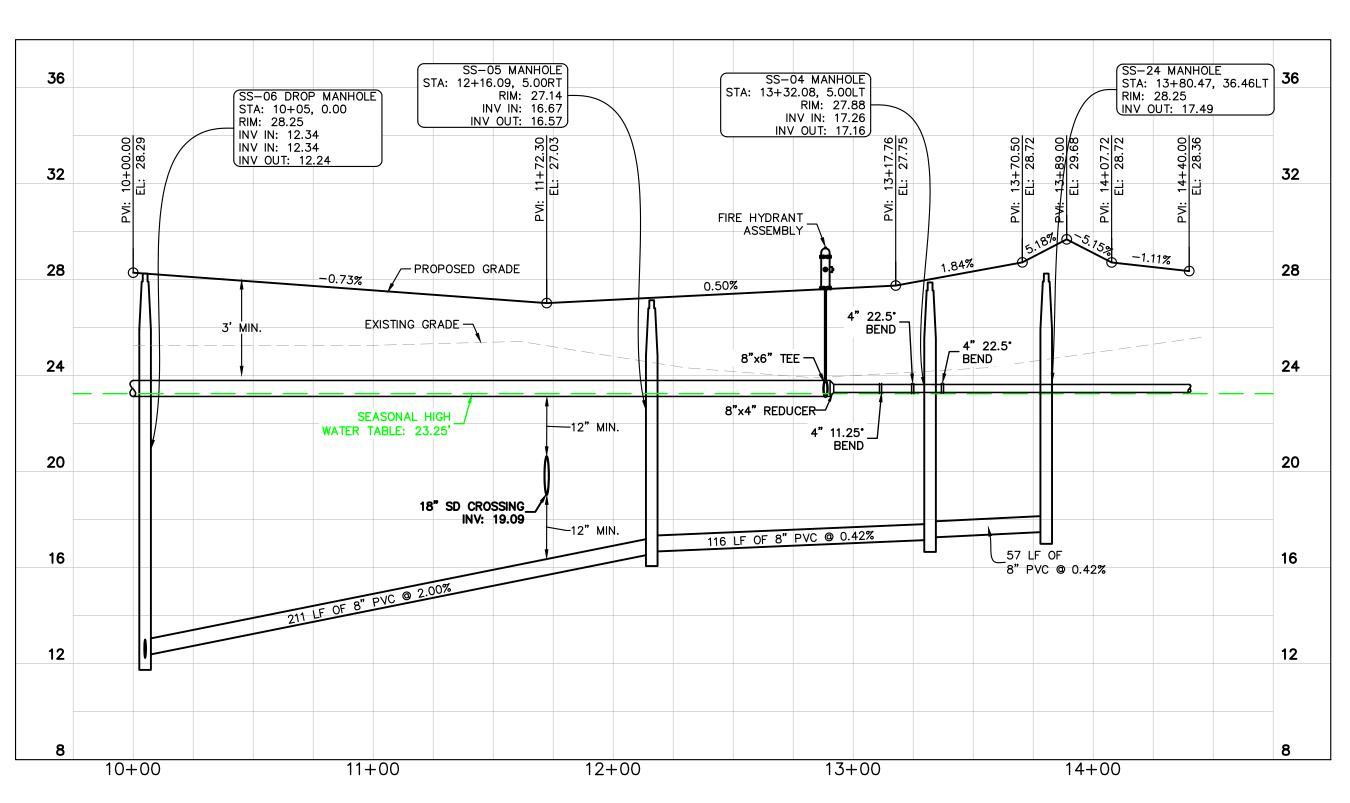


GRIFFITH COURT FROM 10+00 to 14+18.10

H: 1"=40' V: 1"=4'

PROFILI STREE

DEERING PARK ENTER - PHASE



BANFF COURT FROM 10+00 to 18+33.71
H: 1"=40' V: 1"=4'

PROFESSIONAL

(Incense number)

(Continue)

SCALE AS SHOWN
DESIGNED BY KFH
DRAWN BY

UA 1E
KINAN F.

STREET PROFILES

DEERING PARK
CENTER - PHASE 1B
PREPARED FOR
KOLTER