CONSTRUCTION PLANS FOR SAN REMO SHORES WATER MAIN REPLACEMENT

MANATEE COUNTY, FLORIDA

MAY 2019

MANATEE COUNTY PROJECTS #6091970

lanatee

ounty FLORIDA



OWNER: MANATEE COUNTY

1022 26TH AVE. E. BRADENTON, FL 34208 CONTACT: ALEJANDRO GONZALEZ, P.E. 941-708-7450 ext. 7338

KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 300S ST. PETERSBURG, FL 33701 CONTACT: W. WADE WOOD, P.E. 727-498-3853

SURVEYOR; HYATT SURVEY SERVICES, INC. 11007 BTH AVENUE EAST, BRADENTON, FL 34212 CONTACT: RUSSELL P. HYATT, PSM

UTILITY CONTACTS:

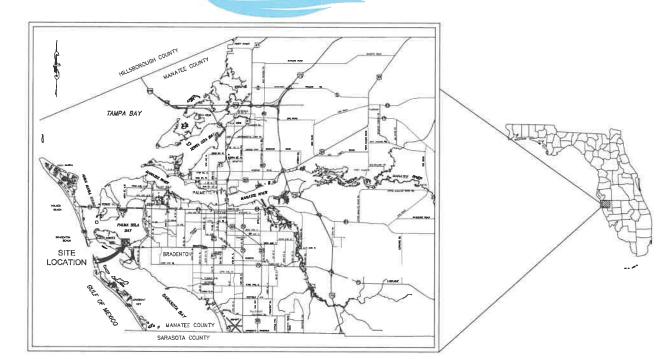
MANATEE COUNTY UTILITIES KATHY MCMAHON 4520- 66TH STREET W BRADENTON, FL 34210 941-792-8811 EXT. 5002

TONNI CANNON 3712 W WALNUT ST TAMPA, FL 33607 813-875-1014

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CHARTER COMMUNICATIONS JIM CRUZAN 5413 S.R. 64 EAST BRADENTON, FL 34208 727-329-2846

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 $\mathsf{PROJECT}_{\mathsf{N.T.S.}}^{\mathsf{VICINITY}}\;\mathsf{MAP}$

100% PLANS



THE SITE CONSTRUCTION STAKEON SHALL BE PERSONNED JUDGE, THE CARECTO A FLORIDA REGISTERED SURVEYOR. ANJOCAD FLUE WILL HE CHRUSHED JO AND THE SITE CONSTRUCTION STAKEOUT THE SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE FRISHED OF ATTENTION FOR CLARIFICATION PRIOR TO THAT BROUGHT TO THE FRISHED OF

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.
 THE PROJECT MANAGER IS: ALEX GONZALEZ, P.E. AND CAN BE REACHED AT (941) 708-7450 X7338
- 2. IF THE CONTRACTOR WANTS A SITE VISIT PRIOR TO BIDDING, THESE SHALL BE ARRANGED THROUGH THE COUNTY'S PURCHASING DIMISION.
- ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY
 UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION"
 UNLESS OTHERWISE INDICATED ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- 5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM DESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- 6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- 7. THE CONTRACTOR SHALL NOTIFY SUNSHINE 811 (1-800-432-4770) AT LEAST 2 FULL BUSINESS DAYS PRIOR TO CONSTRUCTION DEPRATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RICHTS"—OF-WAY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE, EXPLORATORY EXCAVATION MAY BE REQUIRED PRIOR TO CONNECTION TO EXISTING UTILITIES.
- NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.
- 9. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS QUITLINED IN THE SPECIFICATIONS. RED-LINE DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY APPLICATION REVEW PROCESS, PAYMENT WILL NOT BE MADE TO CONTRACTION WITHOUT APPORED RED-LINE DRAWINGS. THE MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY PROGRESS MEETING.
- 10. THE CONTRACTOR SHALL INCLUDE IN HIS BID:BY-PASS PUMPING FACILITIES, PUMPS, FITTINGS, LABOR, ETC. AS NECESSARY, BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE MAINTAINING SERVICE OPERATION.
- 11. ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.
- 12. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE JOB SITE.
- 13. UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND PVC PIPE SHALL HAVE PUSH—ON OR MECHANICAL JOINTS, AND ALL ABOVE GROUND PVC PIPE SHALL HAVE FLANGED JOINTS. ALL JOINTS SHALL BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS.
- 14. ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH PROTECTO 401 LINING FOR THEIR INTERIOR SURFACES AND COAL TAR ENAMEL COATING ON EXTERIOR SURFACES, AS NOTED IN SECTION 20515 of SPECIFICATIONS.
- 15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SECURE PROPERTY FOR STAGING MATERIALS AND EQUIPMENT.
- 16. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, FOR LANDS FOR LAY DOWN AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADMSE, TO HELP IDENTIFY POSSIBLE PARCELS. IT IS FINALLY THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NEEDED AREAS, AND THE COUNTY TAKE NO RESPONSIBILITY FOR DELAYS IN THIS REGARD.
- 17, COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTWOST IMPORTANCE. CONTRACTOR WILL INSURE ADHERENCE TO THE COUNTY'S NOISE ORDINANCE, HAZARD AND SAFETY AND NUISANCE ABATEMENT DIRECTIONS, PLANS, OBJECTIONS AND ORDINANCES. THE ENGINEER WILL HAVE THE FINAL DISCRETION IN THIS RECARD, AS REPRESENTED ONSITE BY THE COUNTY INSPECTOR AND ENGINEER'S STAFF.

SAFETY

- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-98, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 20 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- 19. THE CONTRACTOR SHALL USE SHEET PIUNG, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 20. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 21. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, THIS EXCLUSION DOES NOT ALLEMATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

- 22. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
- 23. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPRINING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REVISED.
- 24. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FOED "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL", IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- 25. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THI STOCKPILED MATERIAL CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGING TO THE THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
- 26. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
- 27. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BOOLDES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
- 28. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
- 29. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
- 30. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED CUT AND/OR REPAIRED AS REQUIRED.
- 31. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL, WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.

DATE

REVISIONS

- 32. CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
- 33. CONTRACTOR SHALL, PRIOR TO BEGINNING CONSTRUCTION, SUBMIT A "FUELING SPILL PREVENTION PLAN" THAT SHALL CLEARLY INDICATE HOW FUEL SPILLS WILL BE PREVENTED WHEN FUELING BOTH WITHIN AND OUTSIDE OF THE STAGING AREA.

- 34. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY RIGHT-OF-WAY, OTHER PUBLIC RIGHT-OF-WAYS OR EASEMENTS SHOWN ON THE DRAWINGS.
- 35. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MODIUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 36, THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN ANY REQUIRED RIGHTS—OF—WAY USE PERMITS AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL GOTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION ALL MAINTENANCE AND PROTECTI OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTME OF TRAMSPORTATION WANULAL OF TRAFFIC CONTROL AND SAFE PRACTICES. A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE—CONSTRUCTION MEETING, PER SPECIFICATIONS 01570.
- 37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH FO.O.T. STANDARDS, OR THE APPLICABLE JURISDICTION.
- 38. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT
- 39. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR. ALL DRIVEWAYS MUST BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED.

UTILITIES

- 41. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONNECTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
- 42. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AGE, THE CONTRACTOR SHALL REPAR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- 43. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION, IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
- 44. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATER COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOSUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO GERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- 45. THE ELEVATIONS OF THE UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZOTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED FORCE MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN, WATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SER SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN JURATION.

RESTORATION

- 46. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 47. ALL DISTURBED GRASSED AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
- 48. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
- 49. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- 51. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEMLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LINE ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER
- 52. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.
- 53. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON CONSTRUCTION PLANS.
- 54. WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION OR CONTRACTION JOINTS ARE PRESENT, CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION OR CONTRACTION JOINT.

- 55. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 56. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY, ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 58. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 59. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- 60. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY, DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 62. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS,

- 63. ALL FITTINGS FOR PRESSURE CLASS—RATED PIPE SHALL BE RESTRAINED DUCTILE IRON, RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
- 64. WHERE IT IS NECESSARY TO DEFLECT PIPE BITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
- . ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
- 66. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 67. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL. SIGNS IN THE MEDIHODRHOOD AT LEAST TWO DAYS (4B HRS) PRIOR TO THE WATER SHUT-OFF, REFERENCE SECTION 01550, PARAGRAPH 1.03 OF THE SPECIFICATIONS, WHEN PRION TO THE WATER SHUT-OFF, REFERENCE SECTION 01580, PARAGRAPH 1,03 OF THE SPECIFICATIONS, WHEN FEASIBLE, POOR HANGERS' SHALL BE DELIVERED TO A FFECTED RESIDENCES AT LEAST TWO DAYS HALL BY THE OFFICE OF THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTRACT WITH HOMEOWNER'S ASSOCIATIONS AND THE RESPECTIVE CITY'S, WRITTEN NOTIFICATIONS SHALL ALSO DE FAXED TO THE TAMPA TRIBUINE, BRADENTON HERALD, AMI SLIN, ISLANDER, SARASOTA HERALD TRIBUINE, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OFFICENCY.
- 68. ALL TEST POINT PIPING SHALL BE CUT LOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
- 69. ALL EXISTING WATER MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AN ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT AND CAPPED. REFER TO SECTION 02064 OF SPECIFICATIONS FOR CUT AND CAPPING ABANDONED PIPE.
- 70. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 71. THE CONTRACTOR SHALL DETAIN AUTHORIZATION FROM THE MANATEE COUNTY UTILITIES DEPARTMENT (MCUD) OFFICE OF INDUSTRIAL COMPULANCE PRIOR TO DEWATERING, COMPLETION OF A CONSTRUCTION DEWATERING AUTHORIZATION TO DISCHARGE APPLICATION IS REQUIRED. FILL OUT FORM AS COMPLETELY AS POSSIBLE AS MISSING INFORMATION DELAYS THE APPROVAL PROCESS.
- 72. THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
- 73. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.
- 74. IF ANY RECLAIMED OR WATER MAINS INCLUDING SERVICE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED FROM THE VALVE TO THE OTHER POINT OF CONNECTION OUTSIDE OF THE ROADWAY PER MANATEE COUNTY'S STANDARDS. SERVICES SHALL BIE REPLACED FROM THE COLD STOP TO THE METER.

- 75. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. STANDARD PLAN INDICES NO. 600, 601, 602 603, 604, 605, AND 660 DEPENDING ON THE OPERATION BEING PERFORMED.
 FOR ALL TWO-LANE WORK, TWO-WAY, WORK OVISION OF SHOULDER UTILIZE INDEX 102—601.
 FOR ALL TWO-LANE WORK, TWO-WAY, WORK ON SHOULDER UTILIZE INDEX 102—602.
 FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITHIN TRAVEL LANE UTILIZE INDEX 102—603.
 FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITH IN INTERSECTION UTILIZE INDEX 102—604.
- FOR ALL TWO-LANE WORK, TWO-WAY, WORK NEAR INTERSECTION UTILIZE INDEX 102-605. FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE INDEX 102-660.
- 76. CONTRACTOR TO COORDINATE WITH ED HERNDON (941) 708-4436 AT FDOT FOR ALL WORK DONE ON A STATE FACILITY.
- 77. TO AVOID DISRUPTION DUE TO INCLEMENT WEATHER, THE CONTRACTOR SHOULD PERFORM ANY MILLING AND PAYING OPERATIONS DURING THE SAME WORK PERIOD.
- 78. ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE CONSTRUCTION LIMITS THAT HAVE BEEN ALTERED BECAUSE OF CONSTRUCTION OPERATIONS SHALL BE REPLACED UPON THE COMPLETION OF THE PROJECT AT THE CONTRACTORS EXPENSE.
- 79. LANE CLOSURES SHALL OCCUR BETWEEN 9:00 P.M. AND 5:00 A.M., UNLESS LANE CLOSURE CALCULATIONS ARE PROVIDED AND APPROVED OR APPROVAL IS GRANTED BY THE DISTRICT PERMIT ENGINEER.
- THE CONTRACTOR SHALL SCHEDULE WORK OPERATIONS SO THAT ALL LANES CAN BE RE-OPENED TO TRAFFIC WITHIN A PERIOD OF 24 HOURS IN CASE OF AN EMERGENCY.
- AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO A SDEWALK SHALL BE BACKFILLED AT A SLOPE NOT TO EXCEED 1:4, OR SHALL BE PROTECTED IN ACCORDANCE WITH STANDARD INDEX 600.
- 81. PEDESTRIAN AND WHEELCHAIR TRAFFIC SHALL BE ACCOMMODATED UTILIZING STANDARD INDEX 660.
- 82. ONE PORTABLE VARIABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF EACH LANE CLOSURE. THE FOLLOWING ARE SUGGESTED MESSAGES TO USE IN THE APPROPRIATE SITUATIONS: MESSAGE 1
 "RIGHT" OR "CENTER" OR "LEFT"
 "LANE" "LANE" "LANE"

"CLOSED" "CLOSED"

"CLOSED"

80. PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:

- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC CONTROL IN A MANNER APPROVED BY THE ENGINEER.
- 84. AT THE END OF EACH WORKING DAY'S ACTIVITY, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY RPM'S SHALL BE INSTALLED PRIOR TO OPENING THE LANES UP FOR TRAFFIC.
- 89. THE CONTRACTOR SHALL RESTRICT THE OPERATIONS SO THAT THE FIRST LIFT OF ASPHALT IS PLACED ON THE SAME DAY THAT THE LANES ARE MILLED, BEFORE OPENING THE LANES TO TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AFTER THE FIRST LIFT AND PRIOR TO OPENING.
- 90. MILLING AND RESURFACING SHALL BE ACCOMPLISHED DURING THE OFF-PEAK HOURS.
- 91. THE CONTRACTOR IS RESPONSIBLE TO RETIME THE TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS (INCLUDING LIMITS OF WORK ZONE TRAFFIC CONTROL) THAT ARE POTENTIALLY AFFECTED DURING VARIOUS PHASES OF CONSTRUCTION. COORDINATE ALL SIGNAL RETIME EFFORTS MUKUMDA GOPALAKRISHNA, P.E., PTOE, COUNTY TRAFFIC ENGINEER, AT 941-749-500, EXT. 7813.
- 92. CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR UMBS THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH OLARS DAVIS OF MAINTIFFICULITY AT 941-708-7450, EXT. 7272 OR CLARREDAYSOM MAINTE ORG.

 93. MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILD BE THE RESPONSIBILITY OF THE CONTRACTOR.

 94. ANY SIGNAL RETIMING REQUIRED FOR THE INTERECTIONS MARACTED BY THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGNAL THINK MODIFIED WINS AT BEFORE COUNTY PAFFIC DESIGN, ATTENDION MR. MUKUNDA COPALARSHINATOR REZIEVE WIND APPROVAL FOR THE ENGINEER.

 95. A DETAILED MAINTENANCE OF TRAFFIC PLANS ARE TO BE SUBTIFIED TO MAINTEN COUNTY INDERTE ENGINEER. BY THE CONTRACTOR, FOR REVIEW AND APPROVAL A MINIMAL OF DETAILS ANY PRIOR TO PROJECTED.

FDOT NOTES

- ALL WORK PERFORMED WITHIN THE FDOT R/W SHALL CONFORM TO:

- ALL WORK PERFORMED WITHIN THE FOOT R/W SHALL CONFORM TO:

 1. FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (2018) (A.K.A. STANDARD SPECS).

 2. FDOT STANDARD PLANS FOR ROAD CONSTRUCTION 2019, (A.K.A. STANDARD PLANS), COMPLANCE WITH ALL APPLICABLE INDICES IS REQUIRED.

 3. FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY, PLANS PREPARATION MANUAL, VOLUME 1, CHAPTERS 2 AND 25. (REVISED 2013).

 4. FLORIDA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION, JANUARY 2015.

 5. ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THE ETHAPTING THE THE MANUFACTURER'S CERTIFICATION THAT THE THE THE COLOSINE WAY NEED TO BE ALTERED DEPENDING ON THE AREA THE WORK IS TAKING PLACE.
- THE FOLLOWING ASPHALT REPAIRS WITHIN FDOT R/W SHOULD BE AS FOLLOWS: COMPACTED AND DENSITY TESTED SOIL IN 6 INCH LIFTS WITH A 100% DENSITY UP TO A DEPTH OF 10 INCHES THE PLACE ID INCHES OF SP 12.5 STRUCTURAL ASPHALT IN 2 INCH LIFTS, AND THEN MILL THE MIDTH OF THE NORTHBOUND LANE TO A DEPTH OF 1.5 INCHES AND RESURFACE WITH 1.5 INCHES OF FC 12.5 FRICTION COURSE.

SURVEYOR NOTES.

- THE FOLLOWING NOS VERTICAL CONTROL MONUMENTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN: "BROADNEW PARK" NAVO 1988 ELEVATION 4.08" "BROWARDALE NAVO 1988 ELEVATION 4.83" A VALUE OF +0.99" SHOULD BE APPLED TO ALL ELEVATIONS FOR A CONVERSION TO NGVD 1929.
- APPLIED TO ALL ELEVATIONS FOR A CONVERSION TO NOVD 1929,
 THIS SURVEY IS REFERENCED TO A GRID PROJECTION OF THE FLORIDA STATE PLANE
 CORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).
 SURVEYED AREA LIES WITHIN ZONES "84 [0, 11 & 2 L 2 & VE 13" PER FEDERAL
 EMERGENCY MANAGEMENT AGENCY FLOOD MAP NUMBERS 12081C0283 E AND
 12081G0281 E EFFECTIVE MARCH 17, 2014.
 THIS IS NOT A BOUNDARY SURVEY, TITLE WORK WAS NOT PROVIDED.
- THE SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY,

WM — WATER MAIN RW — RECLAIM WATER MAIN ECP — ELLIPTICAL CONCRETE PIPE

ABBREVIATIONS

ST — STORM DRAIN
EX. — EASTING
BT — BURIED TELEPHONE
U.C. — UNDERGROUND CONDUIT
DBC — DIRECT BURIED CABLE
FOC — FIBER OPTIC CABLE
SS — SANTARY SEWER
FM — FORCE MAIN
M — WATER MAIN RJ - RESTRAINED JOINT
R/W - RIGHT-OF-WAY
HDD - HORIZONTAL DIRECTIONAL DRILL
RCP - REINFORCED CONCRETE PIPE
ARV - AIR RELEASE VALVE
HDPE - HIGH DENSITY POLYETHYLENE

KIMLEY HORN LEGEND

EX. FORCEMAIN PROPOSED WATER MAIN EX. WATERMAIN --- \$\$ ------ S\$ ----EX. SANITARY SEWER EX. STORM ----F0G ------F0C ----EX. FIBER OPTIC CABLE EX. DIRECT BURIED CABLE EX. BURIED ELECTRIC EX. GAS EX. OVERHEAD UTILITIES ASPHALT DRIVEWAY REPAIR SIDEWALK / CONCRETE DRIVEWAY REPAIR BRICK DRIVEWAY RESTORATION SHELL DRIVEWAY RESTORATION POPOPOPOPOPOPOPO MILLING AND RESURFACING ++++++++++++ EX. CONCRETE DRIVEWAY EX. ASPHALT DRIVEWAY

SHEET NUMBER

2

GENERAL NOTES

EX. BRICK DRIVEWAY

EX. SHELL DRIVEWAY

Kimley » Horn © 2018 KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 300S, ST. PETERSBURG, FL 33701 PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400025 DATE 5/3/2019 CALE AS SHOWN DESIGNED BY WWW

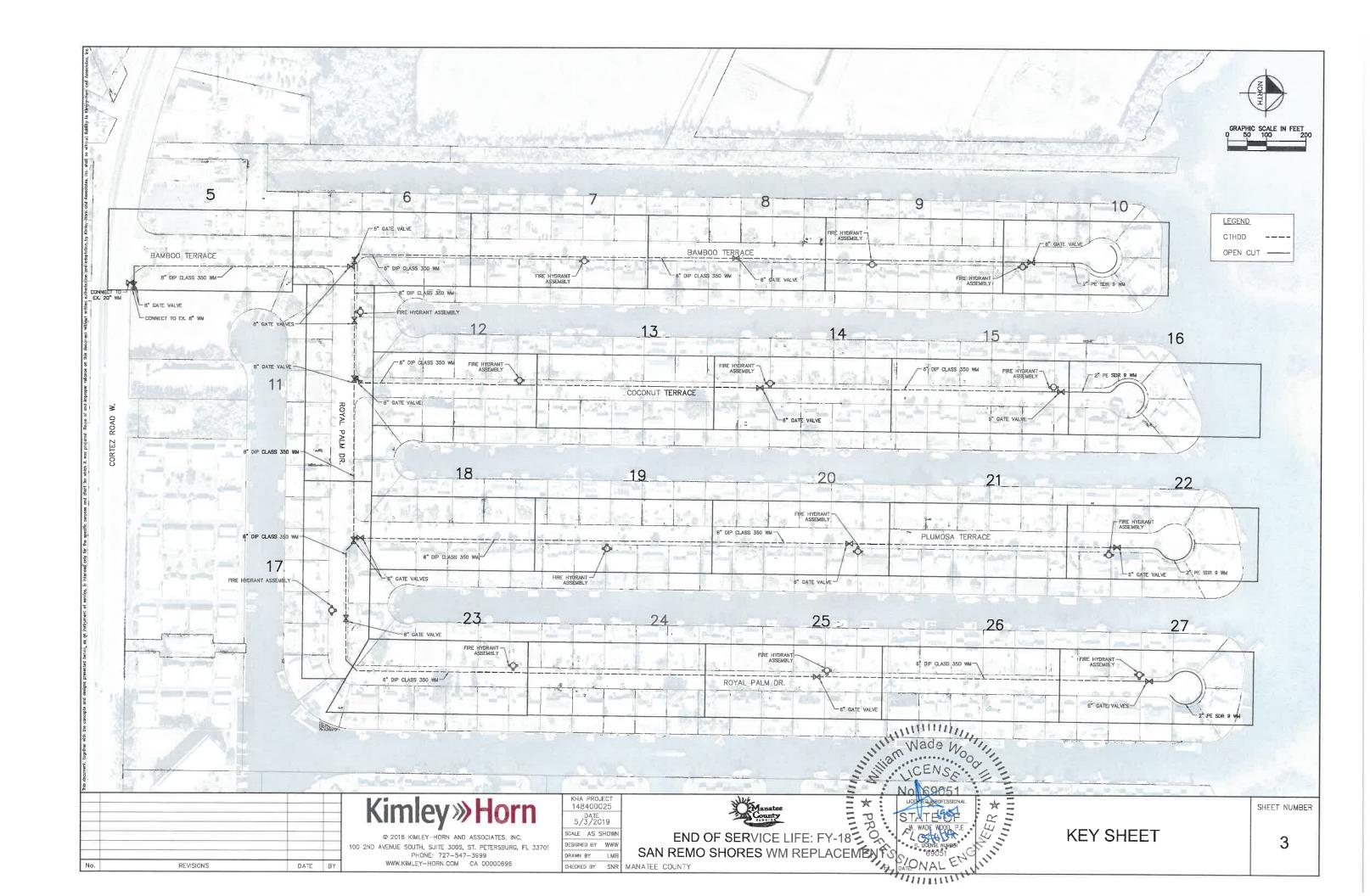
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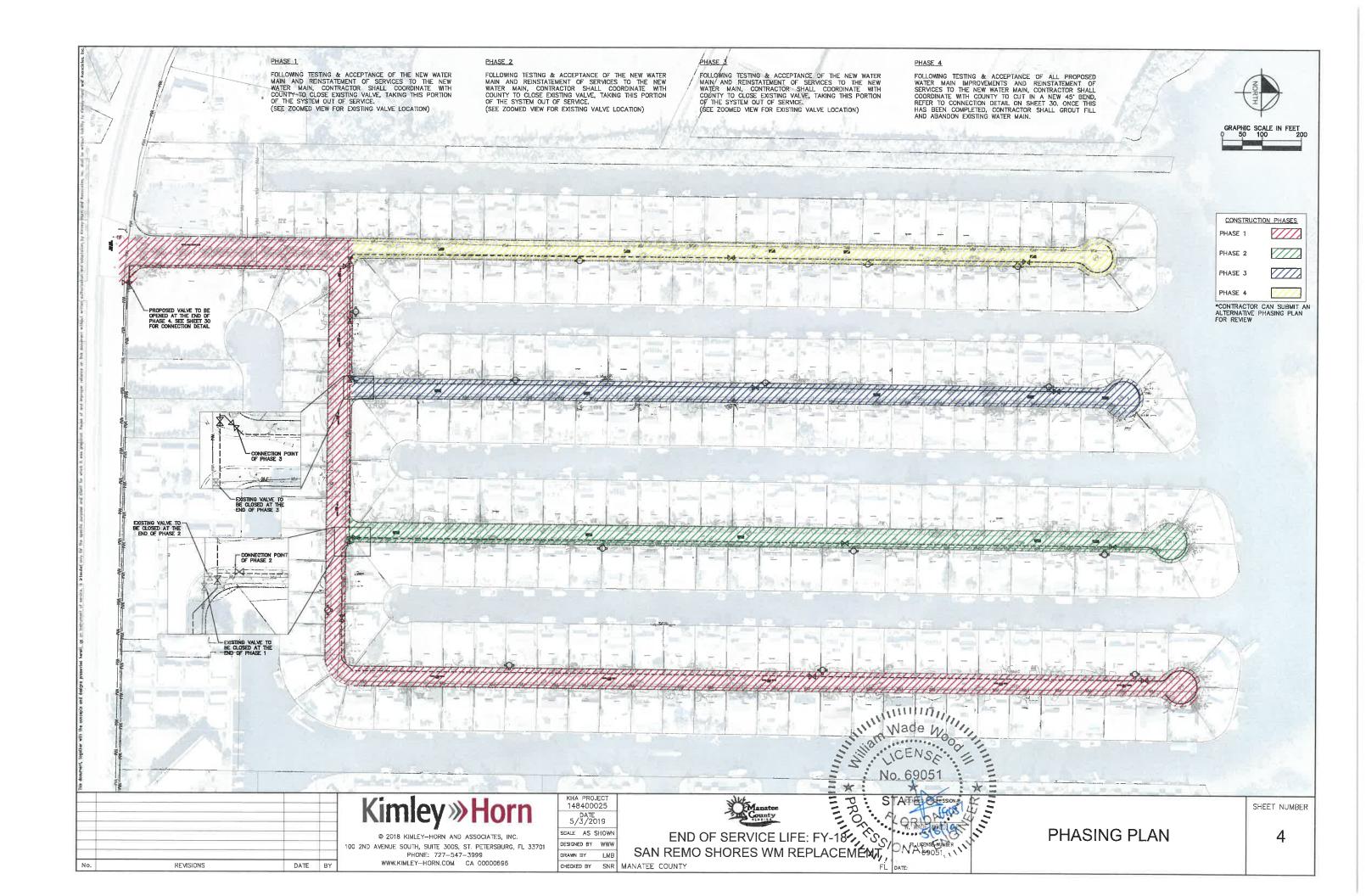
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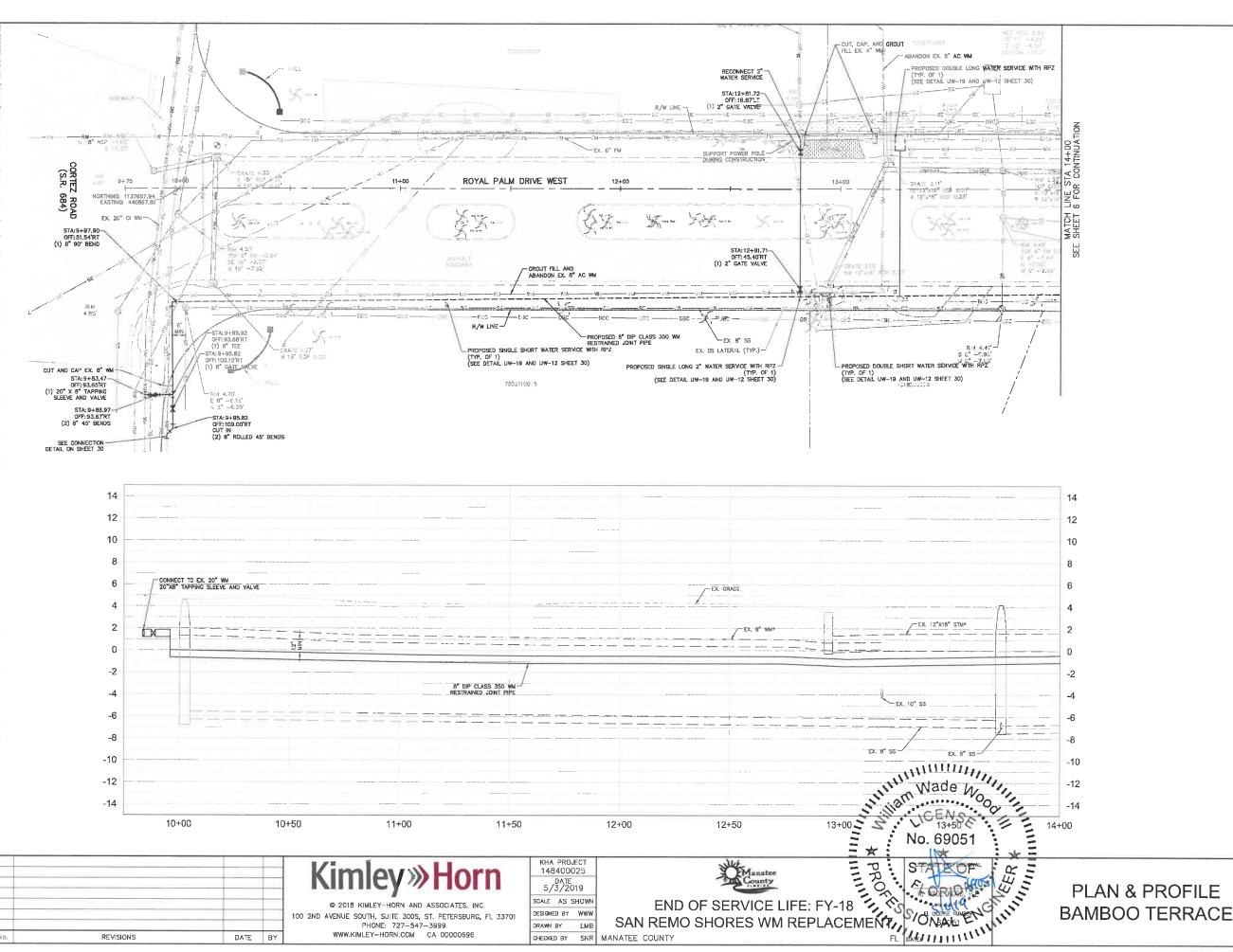
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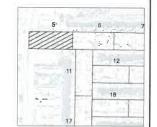
FL UCENSE COUNTY

FL MANUAL COUNT CHECKED BY SNR MANATEE COUNTY









LEGEND CTHDD

OPEN CUT

SIDEWALK/CONCRETE DRIVEWAY RESTORATIO

BRICK DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION FULL ROADWAY RESTORATION

REMOVE & REPLACE CURB

CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 29.

- CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 52–521.30D AND 52–520 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
- 3. CTHOD SITE HOLES (CALIBRATION BORE HOLES) TO BE PERFORMED IN SOFT SOIL WITH A 2' MIN CLEARANCE FROM CURB
- REFER TO DETAIL UG-12 SHEET 28 FOR COUNTY ROADWAY REPAIR REQUIREMENTS

COUNTY ROADWAY REPAIR REQUIREMENTS
*NOTES:
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HOURS IN ADVANCE AND SHALL NOT EXCEED 4
HOURS IN DURATION.

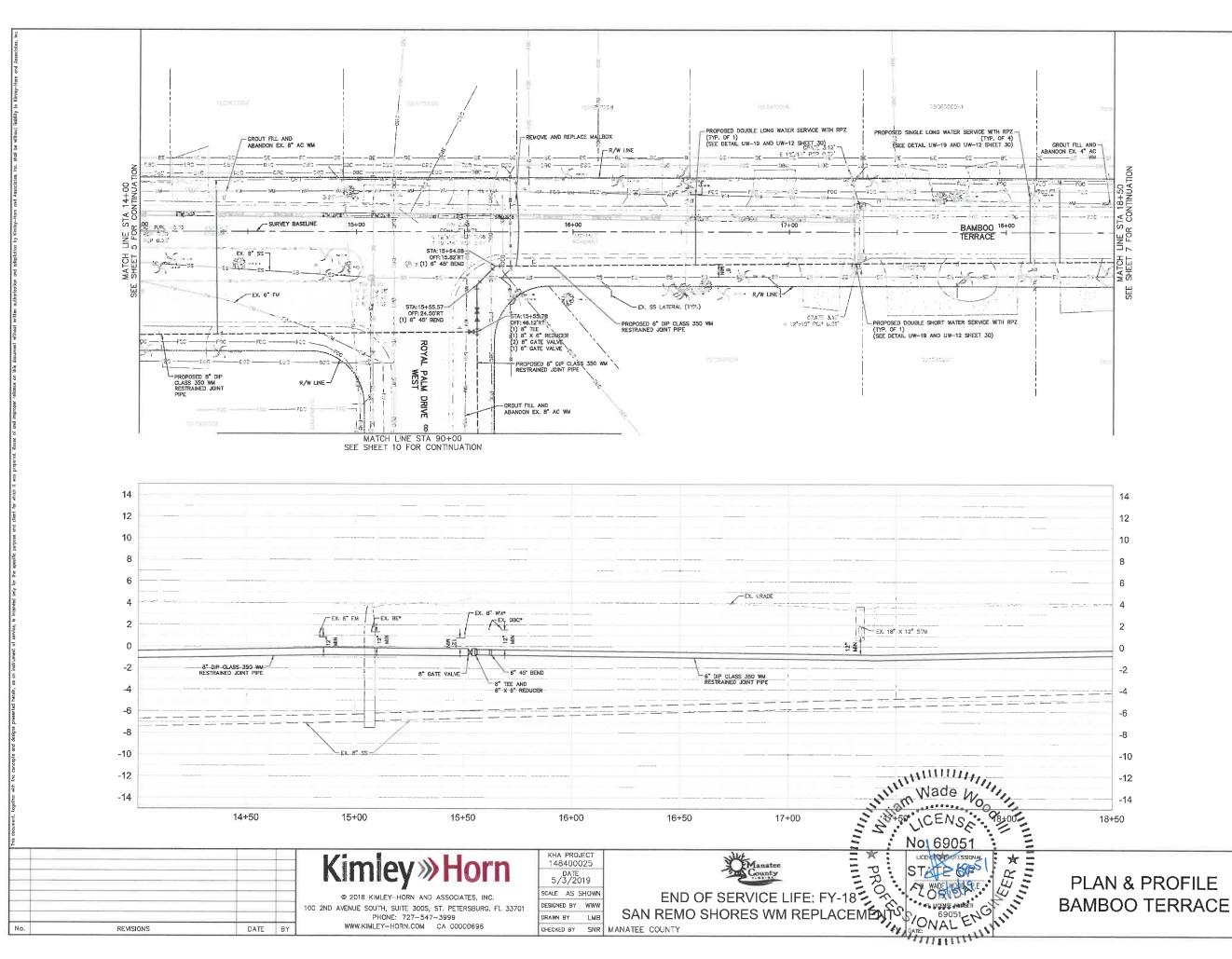
WHERE CONCRETE REPAIRS ARE NECESSARY AN EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO TH NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

GROUNDWATER

DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER
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WEATHER, PROVIDE ADEQUATE
DEWATTERING, DRAINAGE AND GROUND
WATER MANAGEMENT TO CONTROL
MOISTURE OF SOILS.



SHEET NUMBER





HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4"



LEGEND

CTHDD OPEN CUT

SIDEWALK/CONCRETE DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION

MILLING AND RESURFACING REMOVE & REPLACE CURB

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*MOTES:

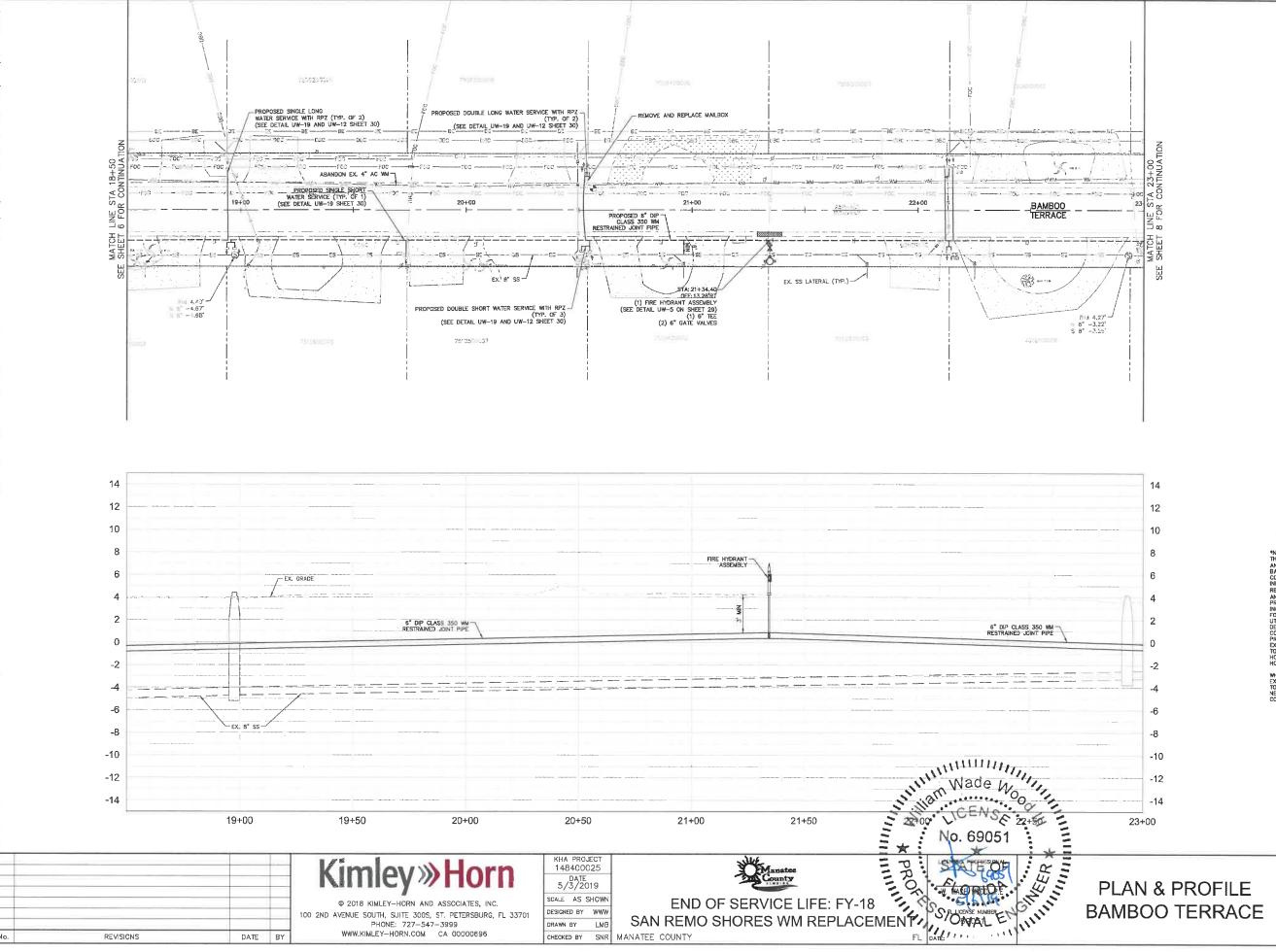
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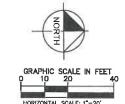
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SHEET NUMBER





LEGEND CTHDD

OPEN CUT

ASPHALT DRIVEWA RESTORATION

SIDEWALK/CONCRETE
DRIVEWAY RESTORATION
BRICK DRIVEWAY

SHELL DRIVEY RESTORATION

FULL ROADWAY RESTORATION MILLING AND RESURFACING

REMOVE & REPLAC

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- 4. REFER TO DETAIL UG-12 SHEET 28 FOR COUNTY ROADWAY REPAIR REQUIREMENT

COUNTY ROADWAY REPAIR REQUIREMENTS

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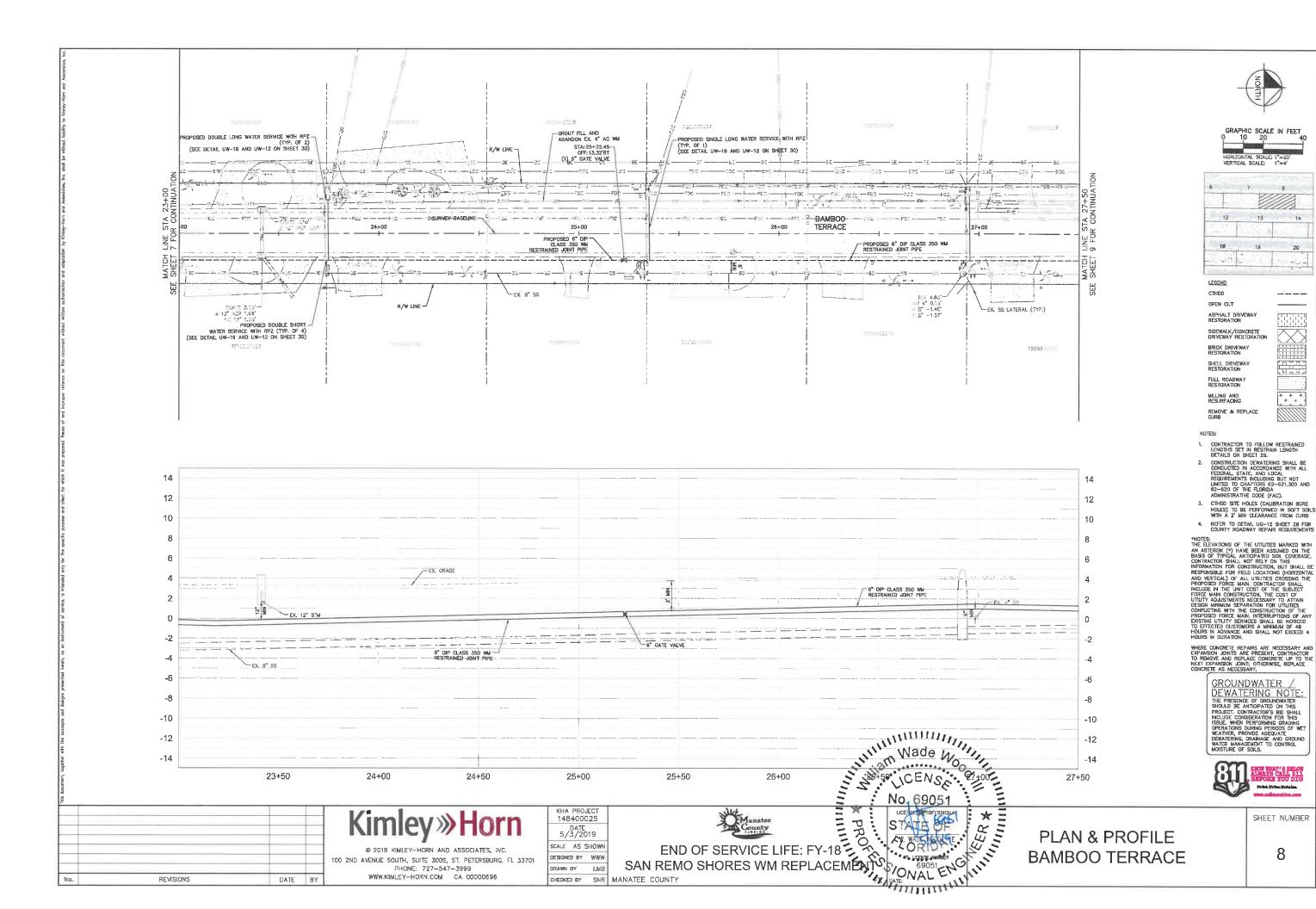
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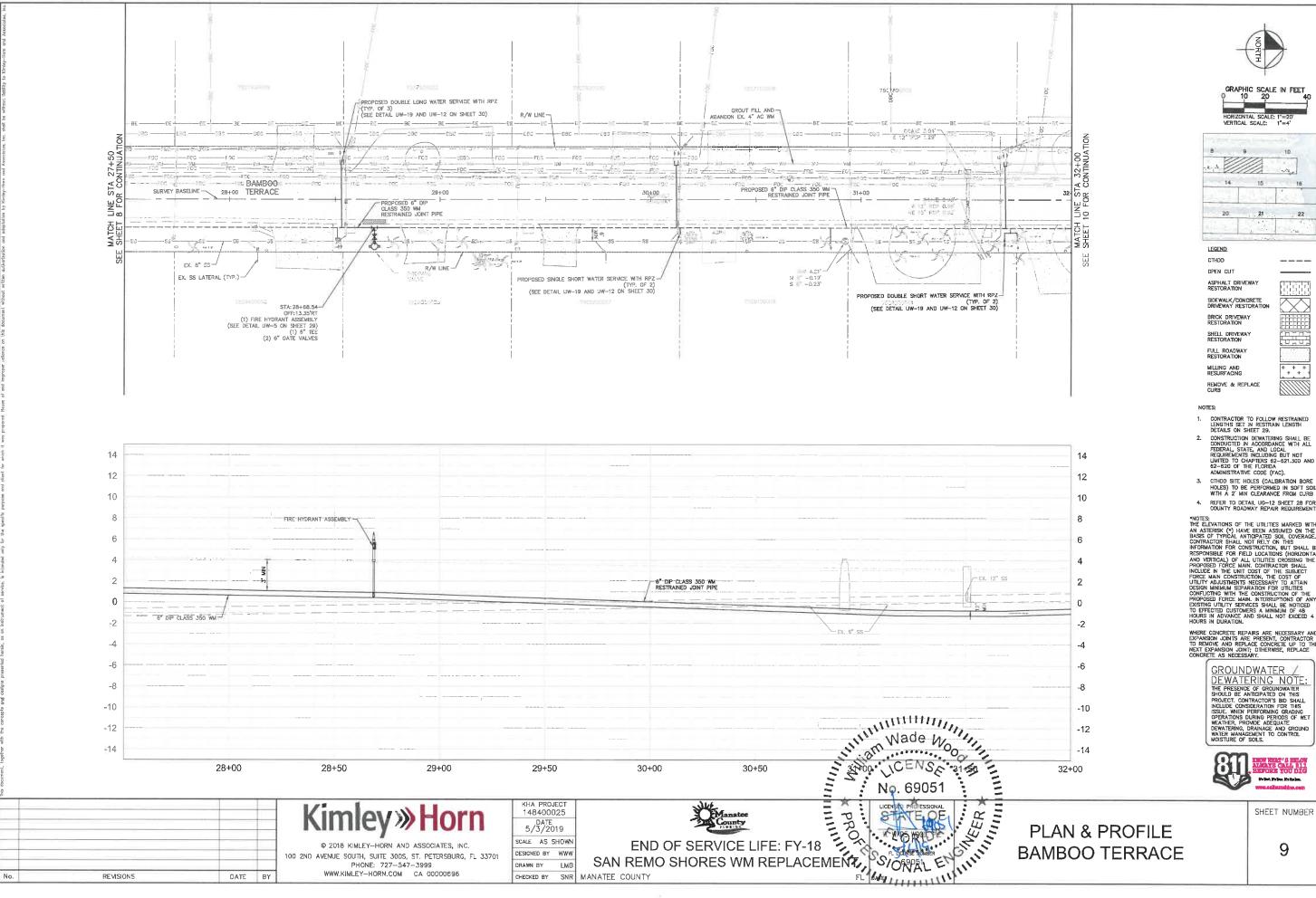
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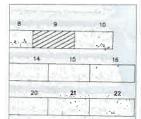
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SHEET NUMBER







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- DELAILS ON SHEEL 29.

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COUNTY ROADWAY REPAIR REQUIREMENTS

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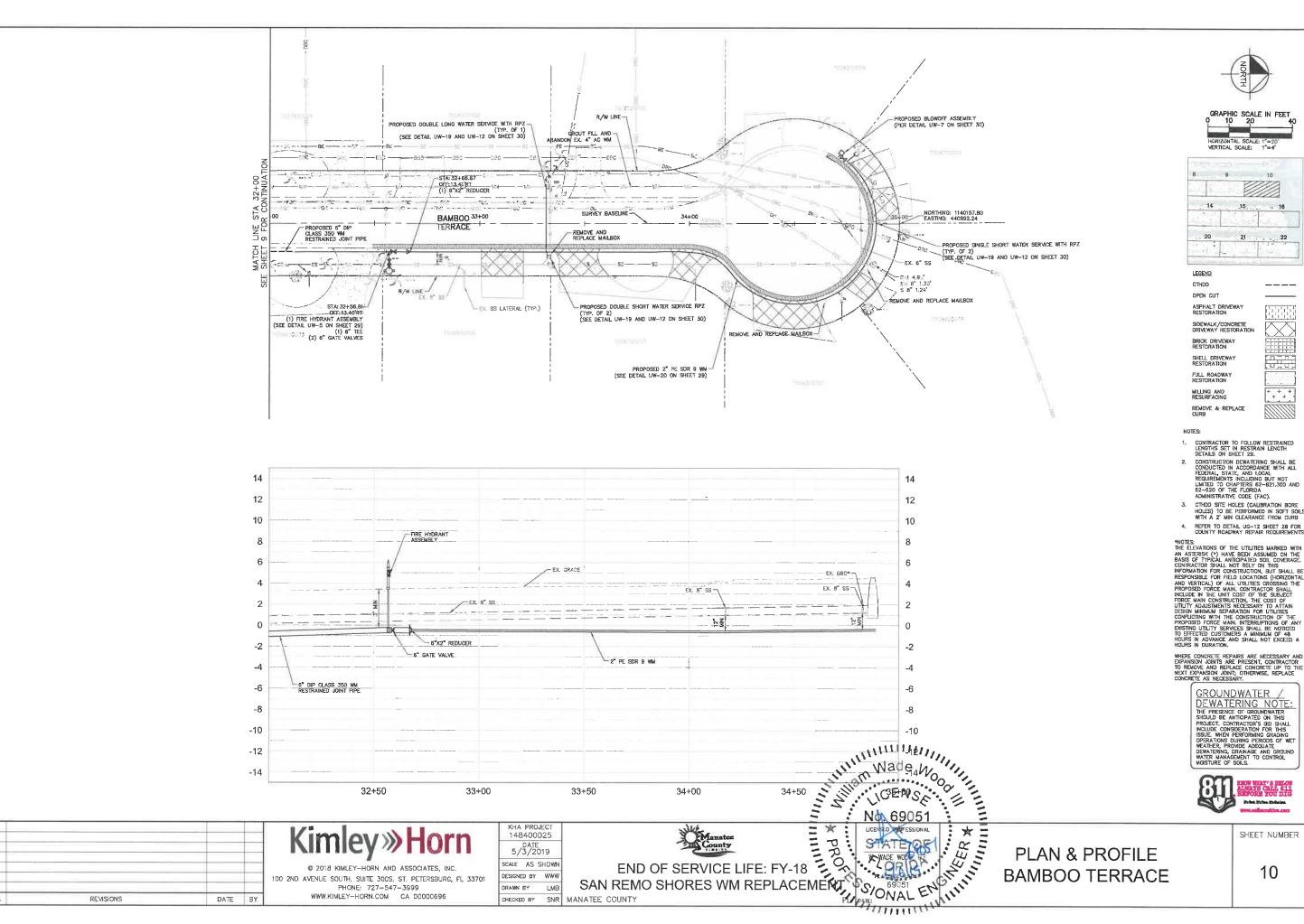
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SHEET NUMBER



DATE 5/3/2019

CALE AS SHOWN

DESIGNED BY WWW

DRAWN BY LMB

CHECKED BY SNR MANATEE COUNTY

© 2018 KIMLEY-HORN AND ASSOCIATES, INC.

100 2ND AVENUE SOUTH, SUITE 300S, ST. PETERSBURG, FL 33701 PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696

REVISIONS

DATE BY

SHEET NUMBER PLAN & PROFILE

BAMBOO TERRACE

LEGEND CTHDD OPEN CUT

BRICK DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION

MILLING AND RESURFACING REMOVE & REPLACE CURB + + +

DETAILS ON SHEET 28.

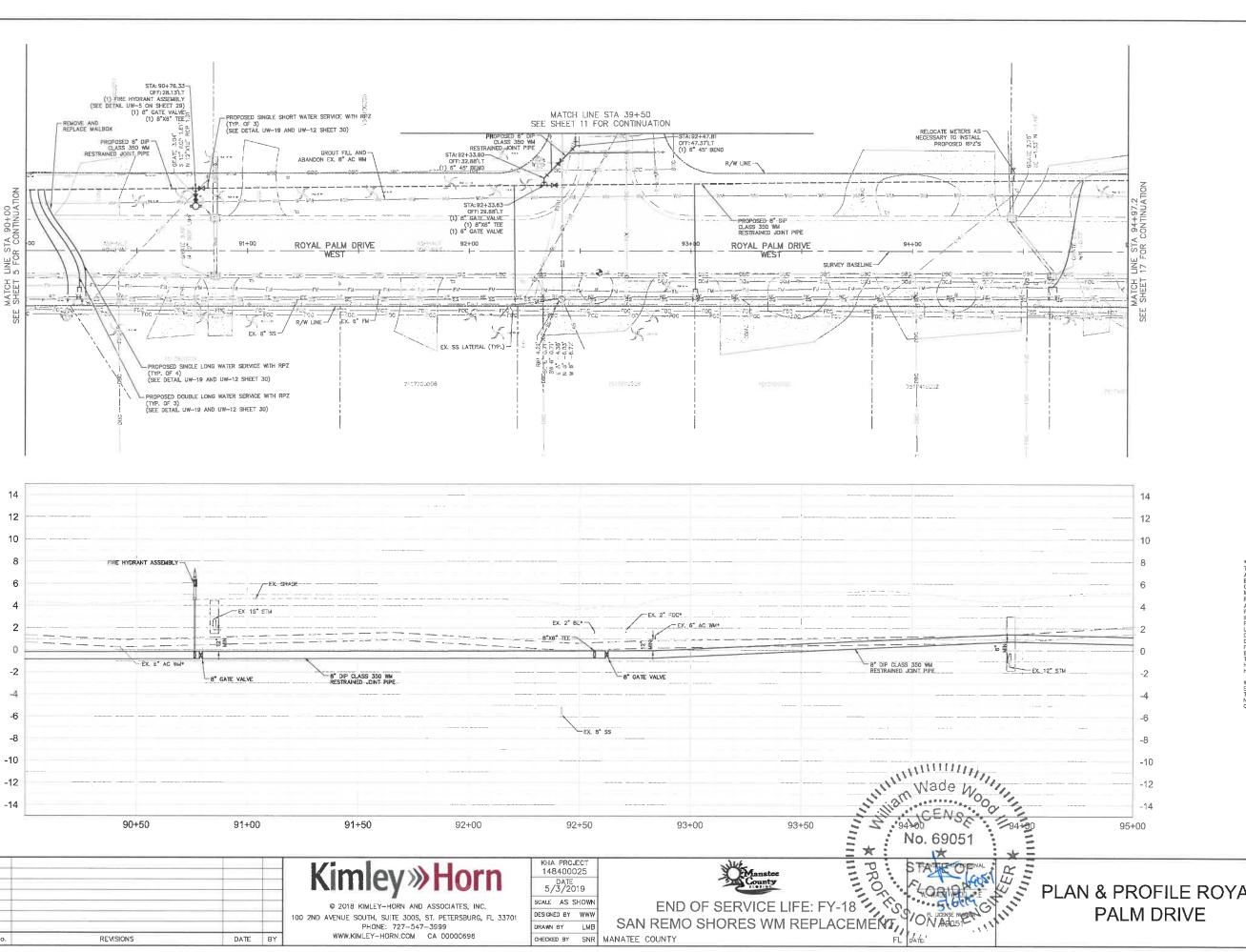
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REFER TO DETAIL UG-12 SHEET 28 FOR COUNTY ROADWAY REPAIR REQUIREMENT

GROUNDWATER

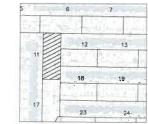
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MOISTURE OF SOILS.



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REVISIONS

DATE BY



LEGEND CTHDD OPEN CUT SIDEWALK/CONCRETE DRIVEWAY RESTORATE BRICK DRIVEWAY RESTORATION SHELL DRIVEWAY RESTORATION

+ + +

FULL ROADWAY RESTORATION MILLING AND RESURFACING

REMOVE & REPLACE CURB

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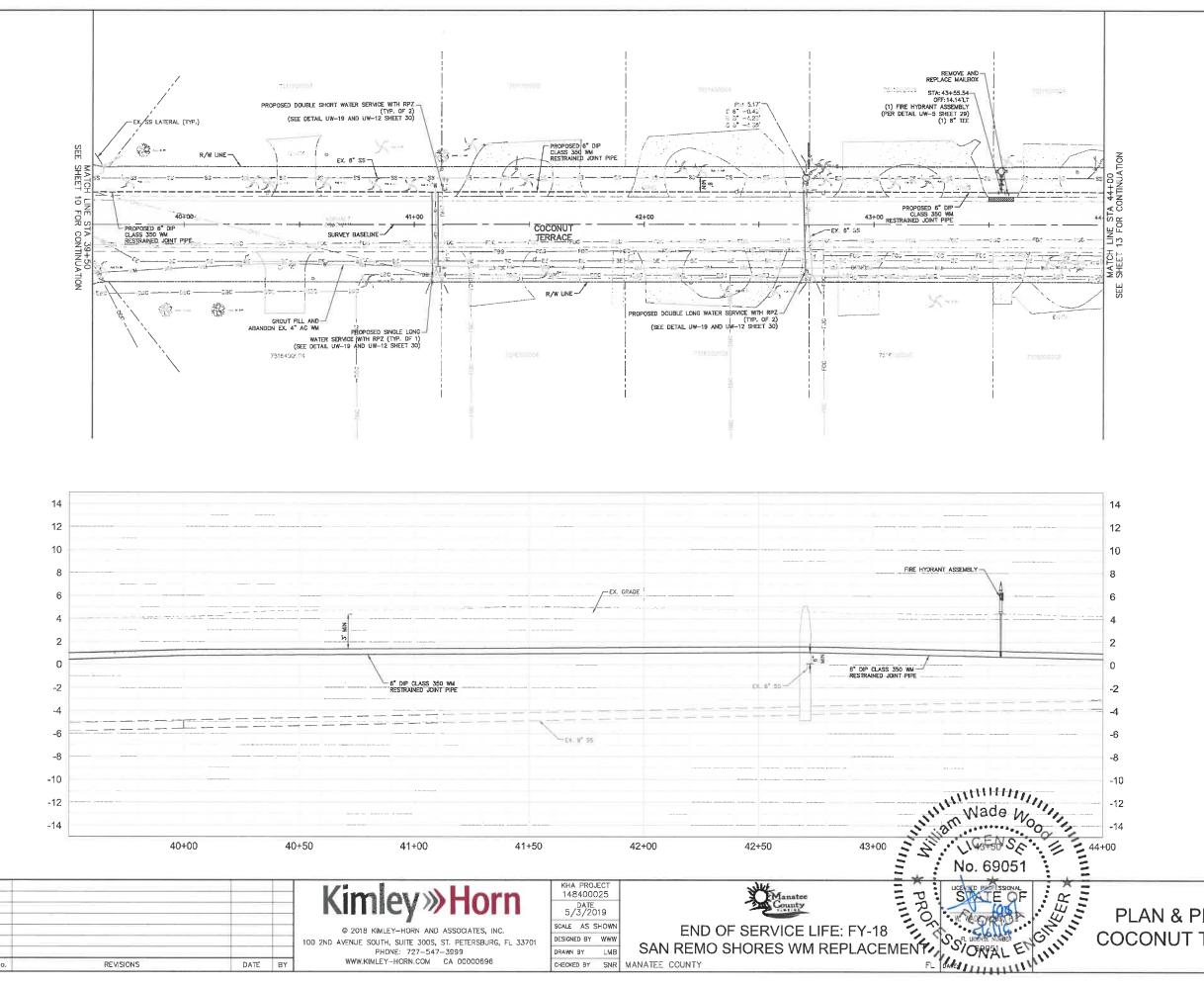
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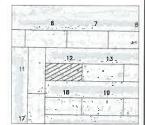
PLAN & PROFILE ROYAL

SHEET NUMBER









LEGEND

CTHOD OPEN CUT

BRICK DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION MILLING AND RESURFACING

REMOVE & REPLACE CURB

CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 29.

+ + +

- DETAILS ON STREET 29.

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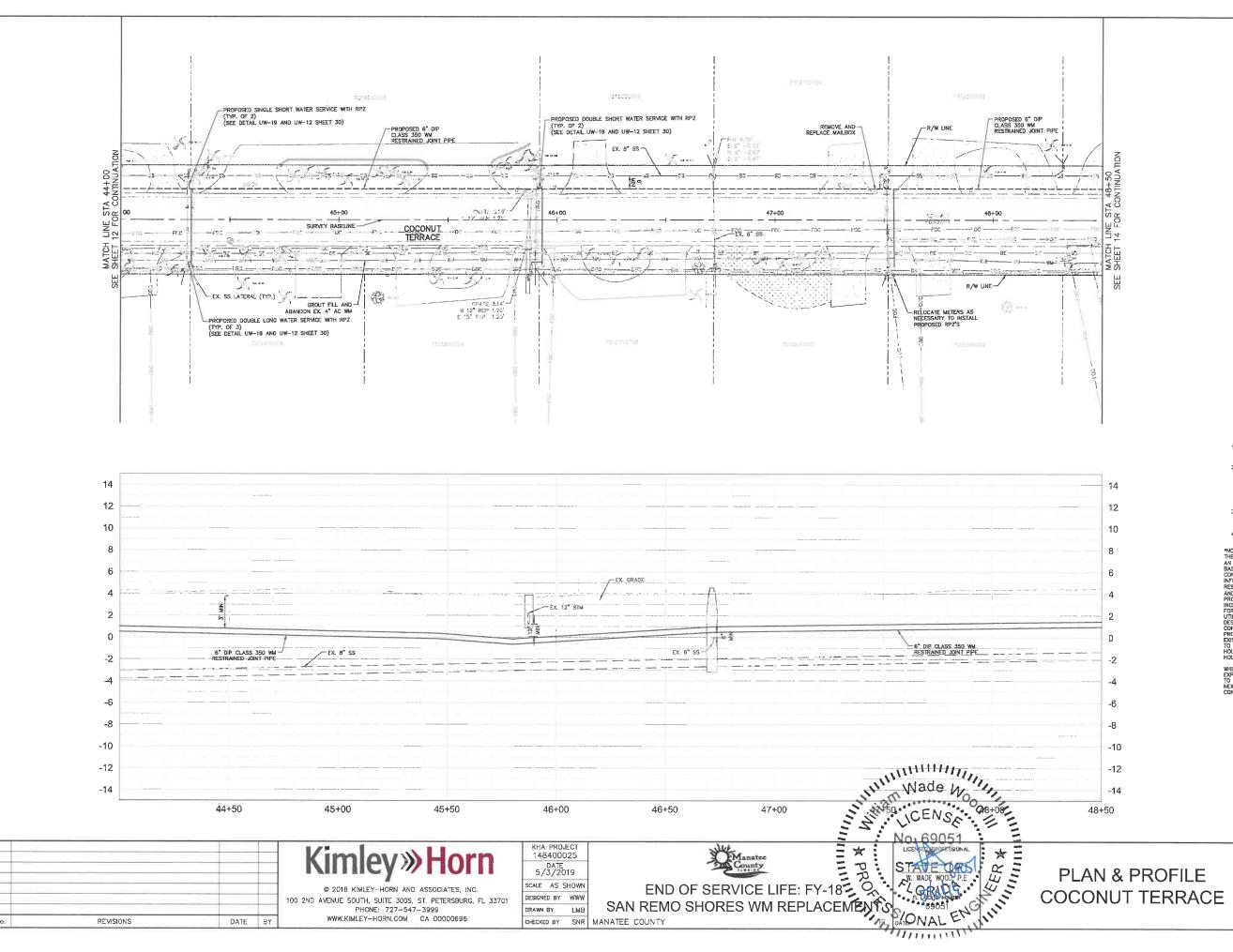
PHONE: 727-547-3999 WWW.KIMLEY-HORN.COM CA 00000696 DRAWN BY LMB

REVISIONS

DATE BY

CHECKED BY SNR MANATEE COUNTY

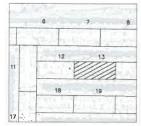
PLAN & PROFILE **COCONUT TERRACE** SHEET NUMBER



REVISIONS

DATE BY

HORIZONTAL SCALE: 1"=20" VERTICAL SCALE: 1"=4"



LEGEND

CTHDD OPEN CUT

ASPHALT DRIVEWAY RESTORATION

SIDEWALK/CONCRETE DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION

MILLING AND RESURFACING REMOVE & REPLACE CURB

NOTES:

+ + +

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- REFER TO DETAIL UG-12 SHEET 28 FOR COUNTY ROADWAY REPAIR REQUIREMENTS

COUNTY ROADWAY REPAIR REQUIREMENTS

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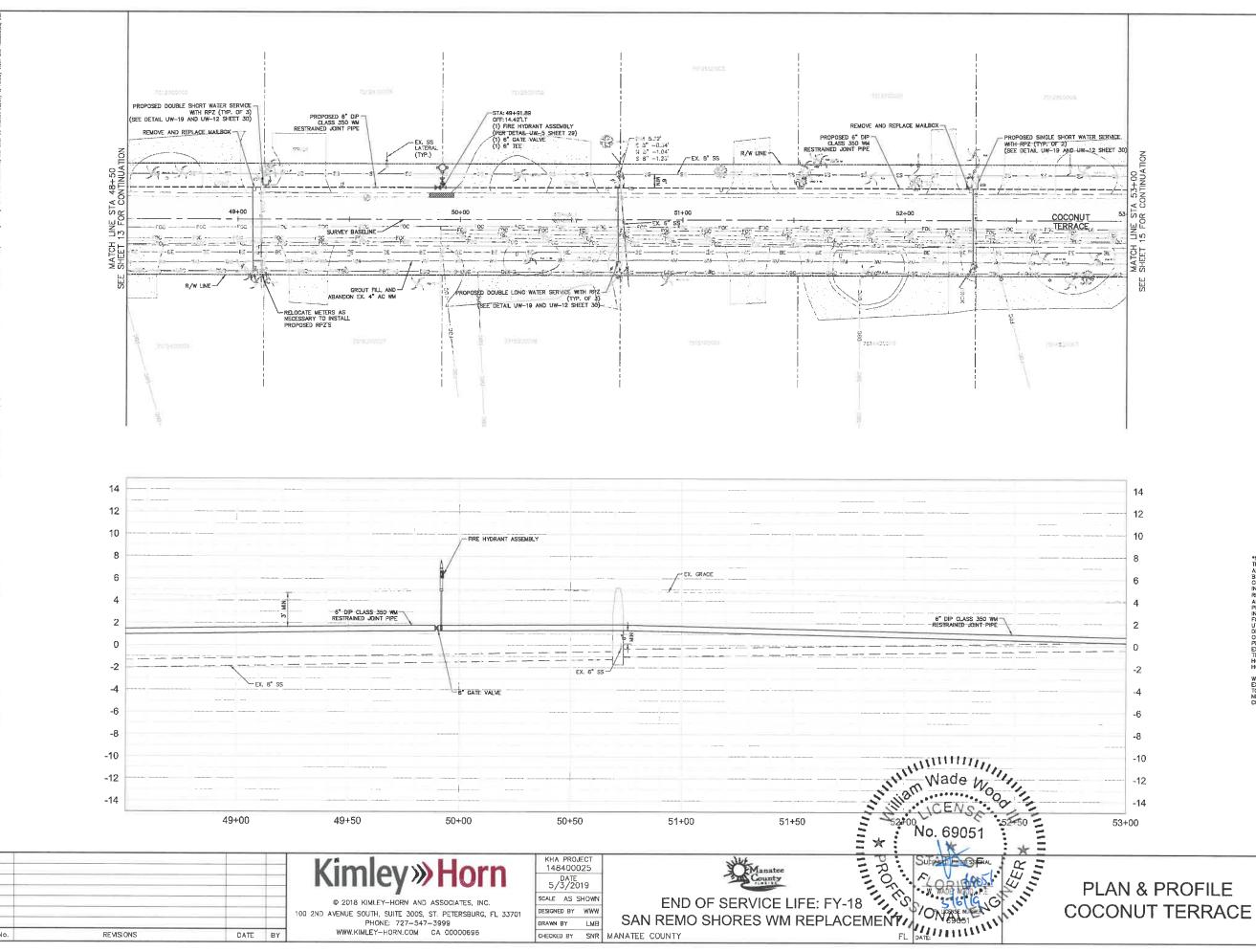
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GROUNDWATER

DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER
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WATER MANAGEMENT TO CONTROL
MOISTURE OF SOILS.



SHEET NUMBER



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REVISIONS

DATE BY







LEGEND.	
CTHDD	
OPEN CUT	
ASPHALT DRIVEWAY RESTORATION	
SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
BRICK DRIVEWAY RESTORATION	
SHELL DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	+ + +
REMOVE & REPLACE	UIIII.

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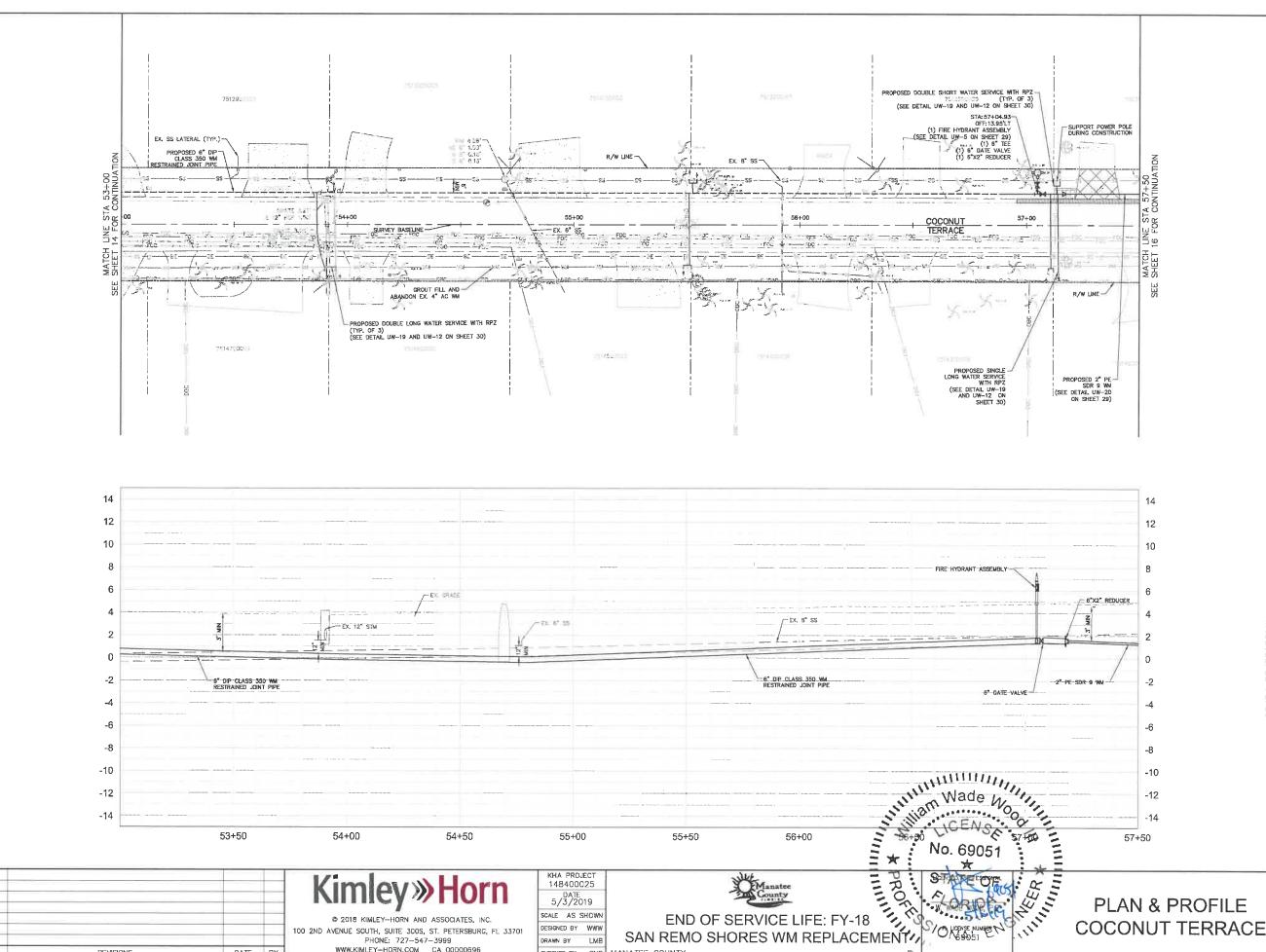
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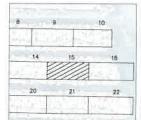
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REVISIONS

DATE BY



HORIZONTAL SCALE: 1"=20"



LEGEND	
CTHDD	
OPEN CUT	
ASPHALT DRIVEWAY RESTORATION	
SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
BRICK DRIVEWAY RESTORATION	
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GROUNDWATER

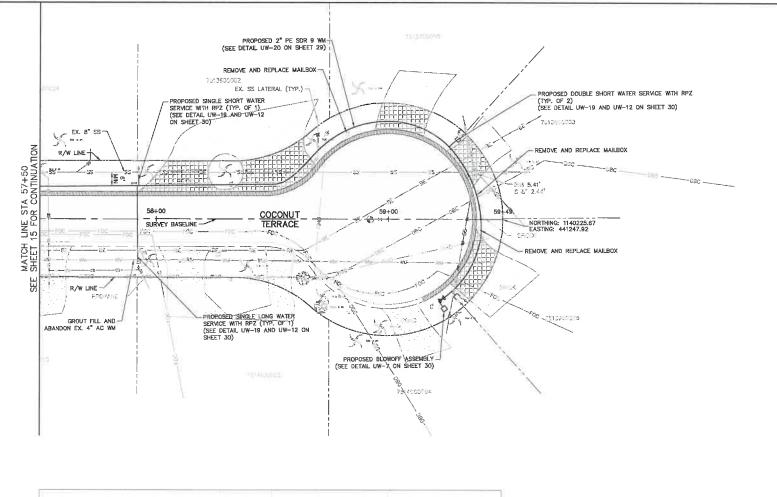
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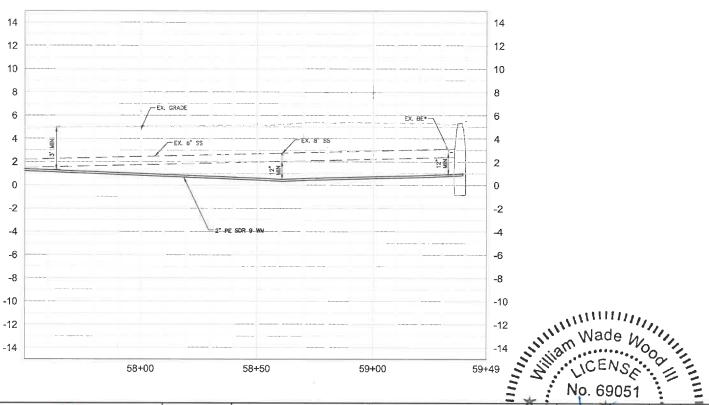
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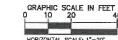
COCONUT TERRACE

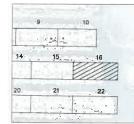
SHEET NUMBER











LEGEND	
CTHOD	
OPEN CUT	
ASPHALT DRIVEWAY RESTORATION	
SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
BRICK DRIVEWAY RESTORATION	
SHELL DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	+ + +
REMOVE & REPLACE CURB	

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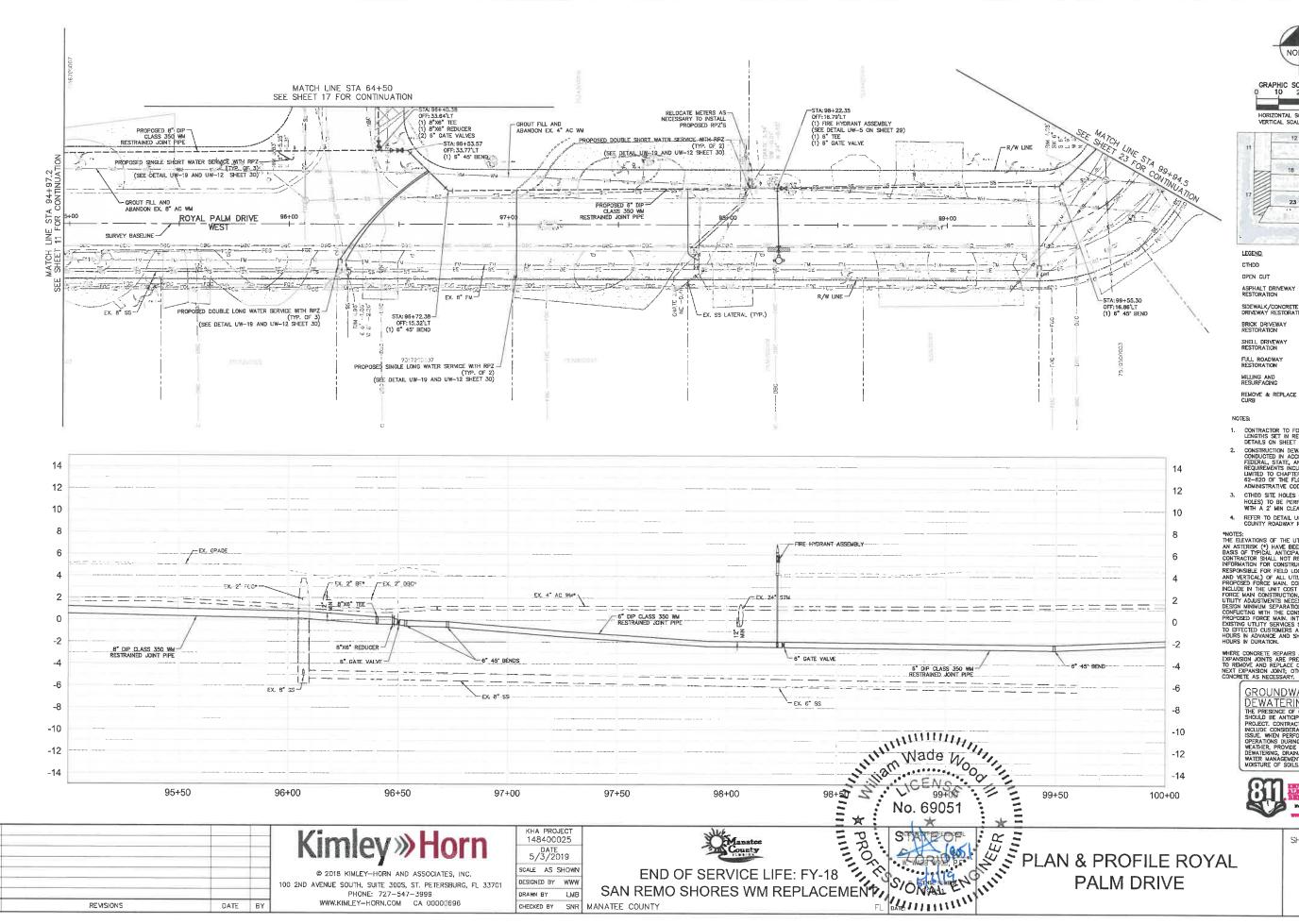
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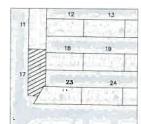
PLAN & PROFILE **COCONUT TERRACE** SHEET NUMBER



REVISIONS

DATE BY

GRAPHIC SCALE IN FEET HORIZONTAL SCALE: 1"=20 VERTICAL SCALE: 1"=4"



ASPHALT DRIVEWAY RESTORATION SIDEWALK/CONCRETE DRIVEWAY RESTORATION

+ + +

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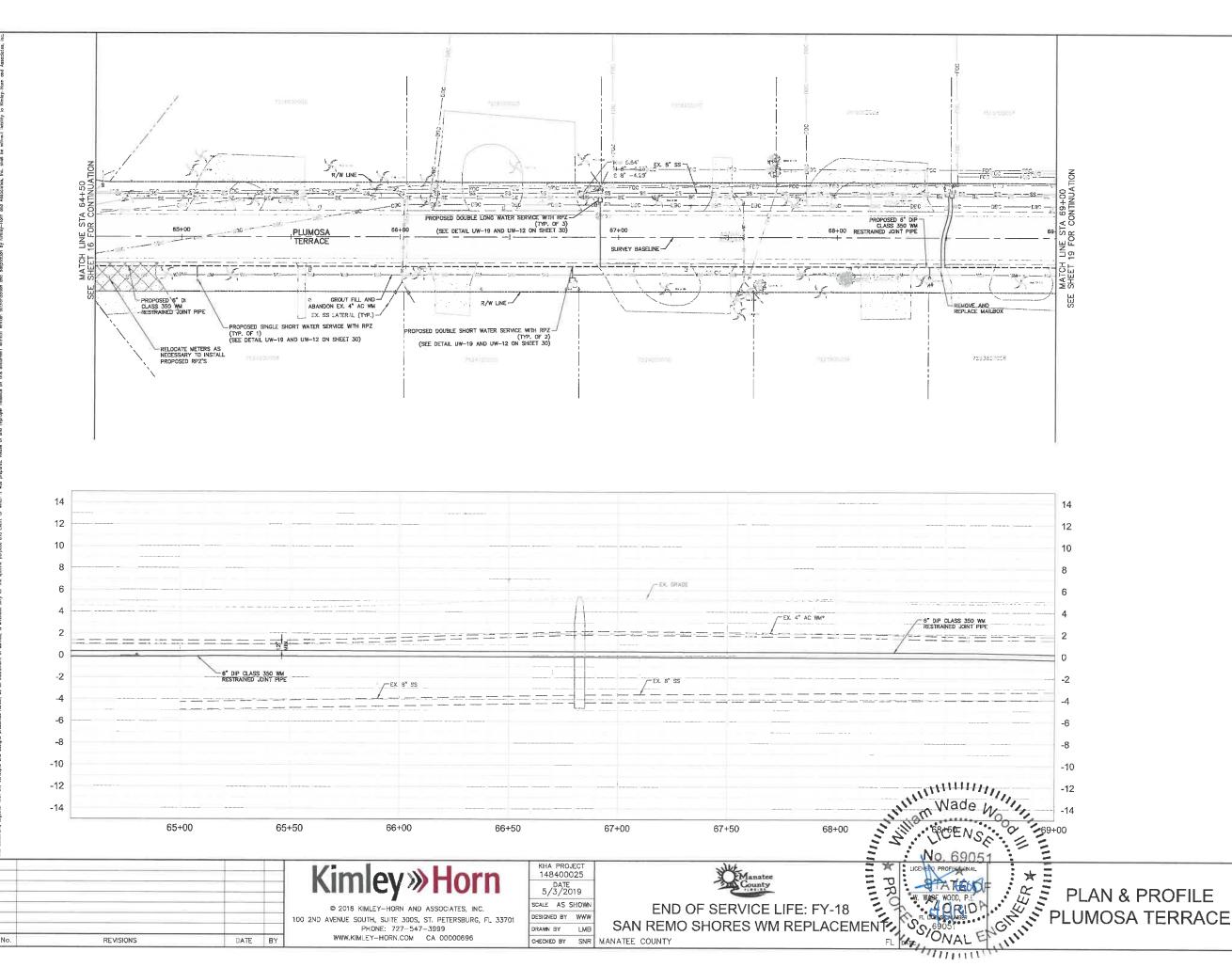
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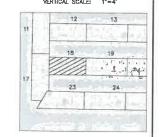
SHEET NUMBER





GRAPHIC SCALE IN FEET D 10 20 40

HORIZONTAL SCALE: 1"=20" VERTICAL SCALE: 1"=4"



LEGEND CTHDD OPEN CUT ASPHALT DRIVEWAY RESTORATION SIDEWALK/CONCRETE DRIVEWAY RESTORAT

SHELL DRIVEWAY RESTORATION

MILLING AND RESURFACING

REMOVE & REPLACE CURB

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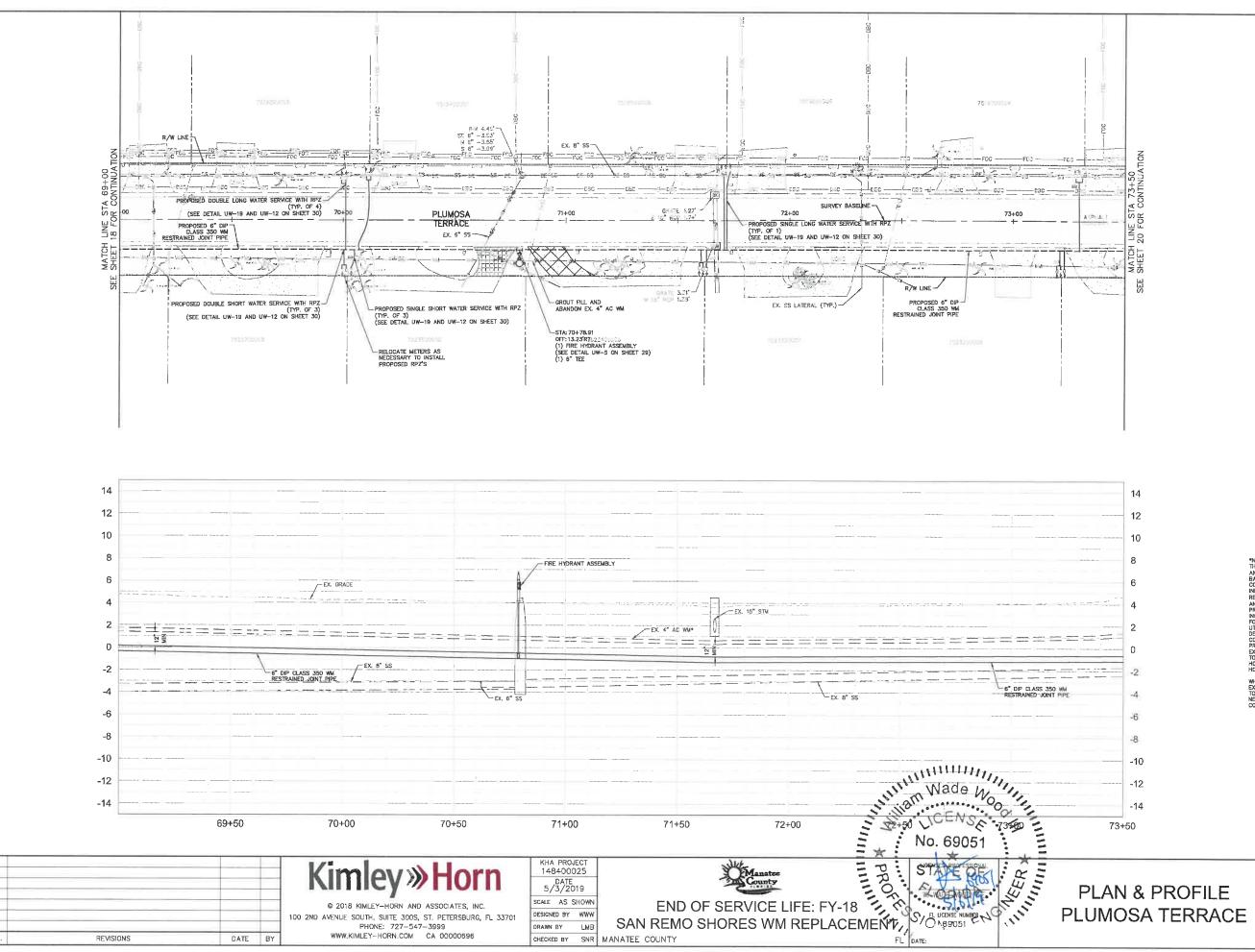
GROUNDWATER

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PLAN & PROFILE

SHEET NUMBER

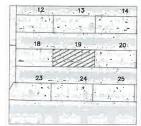


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DATE BY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'



LEGEND CTHOD

ASPHALT DRIVEWAY RESTORATION SIDEWALK/CONCRETE DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION

REMOVE & REPLACE CURB

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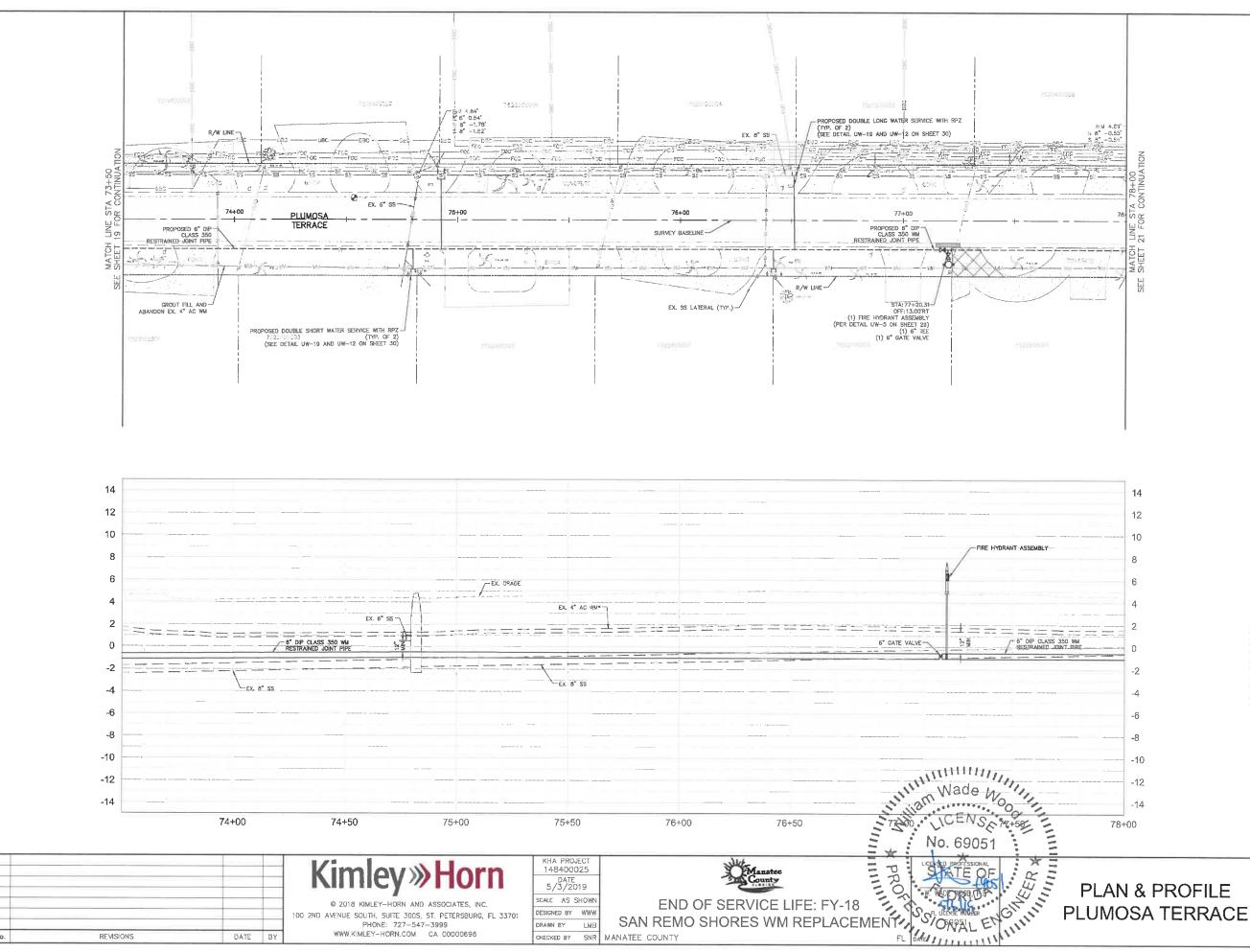
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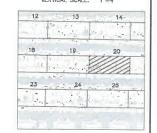
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SHEET NUMBER







LEGEND

CTHOD

BRICK DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION

REMOVE & REPLACE CURB

NOTES:

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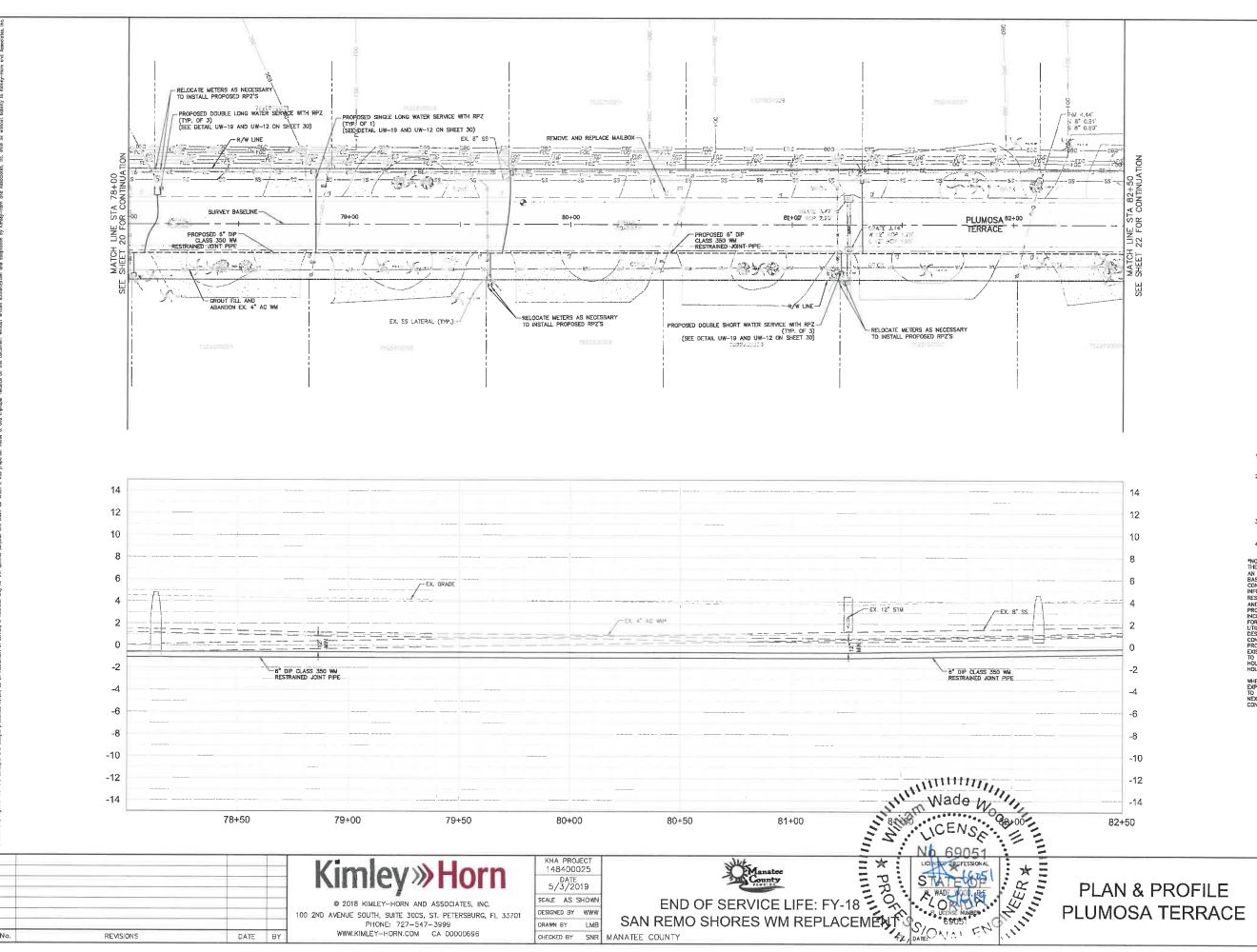
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PLAN & PROFILE

SHEET NUMBER



HORIZONTAL SCALE: 1"=20" VERTICAL SCALE: 1"=4"



LEGEND CTHDD

SHELL DRIVEWAY RESTORATION FULL ROADWAY

REMOVE & REPLACE CURB

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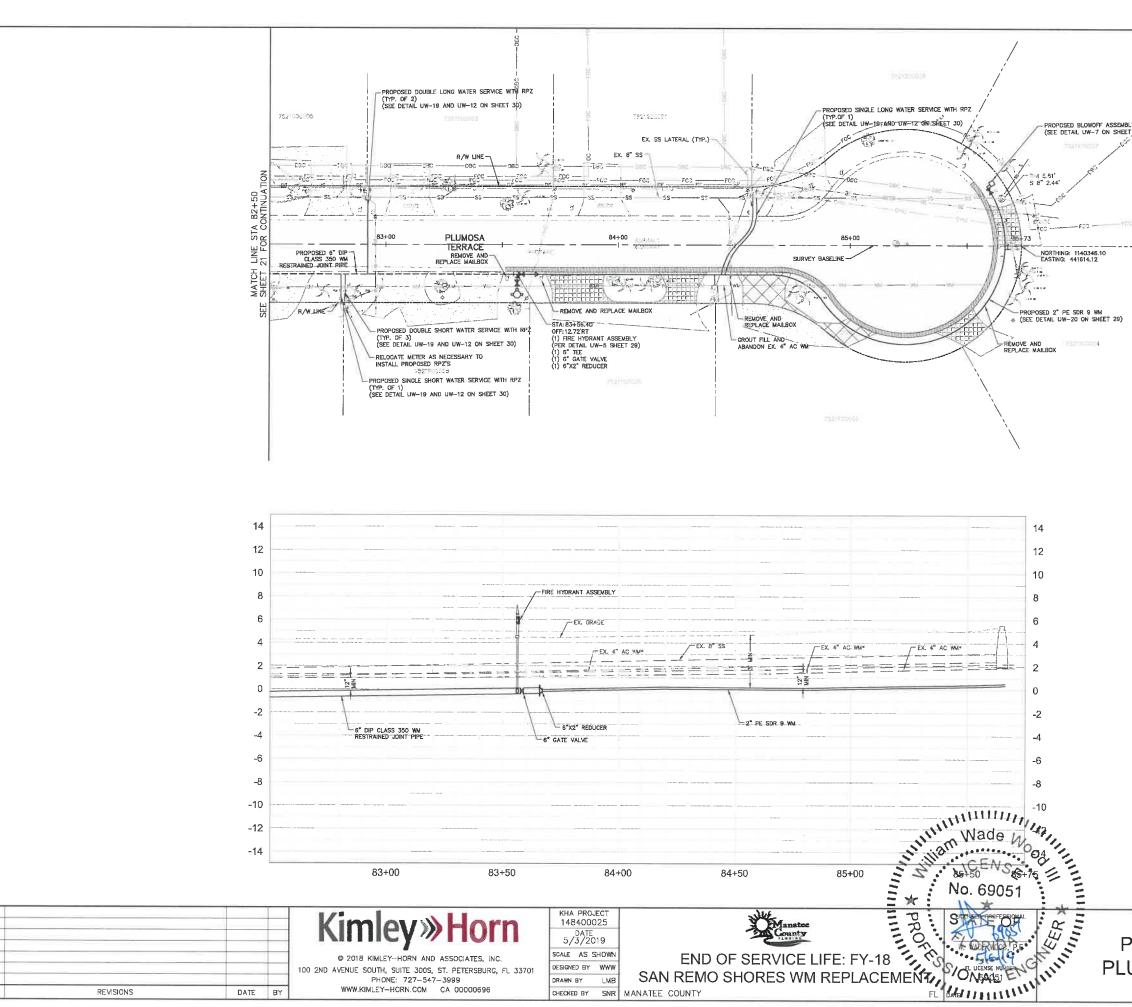
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SHEET NUMBER





GRAPHIC SCALE IN FEET

HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'

LEGEND

CTHDD OPEN CUT

SIDEWALK/CONCRETE DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION

MILLING AND RESURFACING REMOVE & REPLACE CURB

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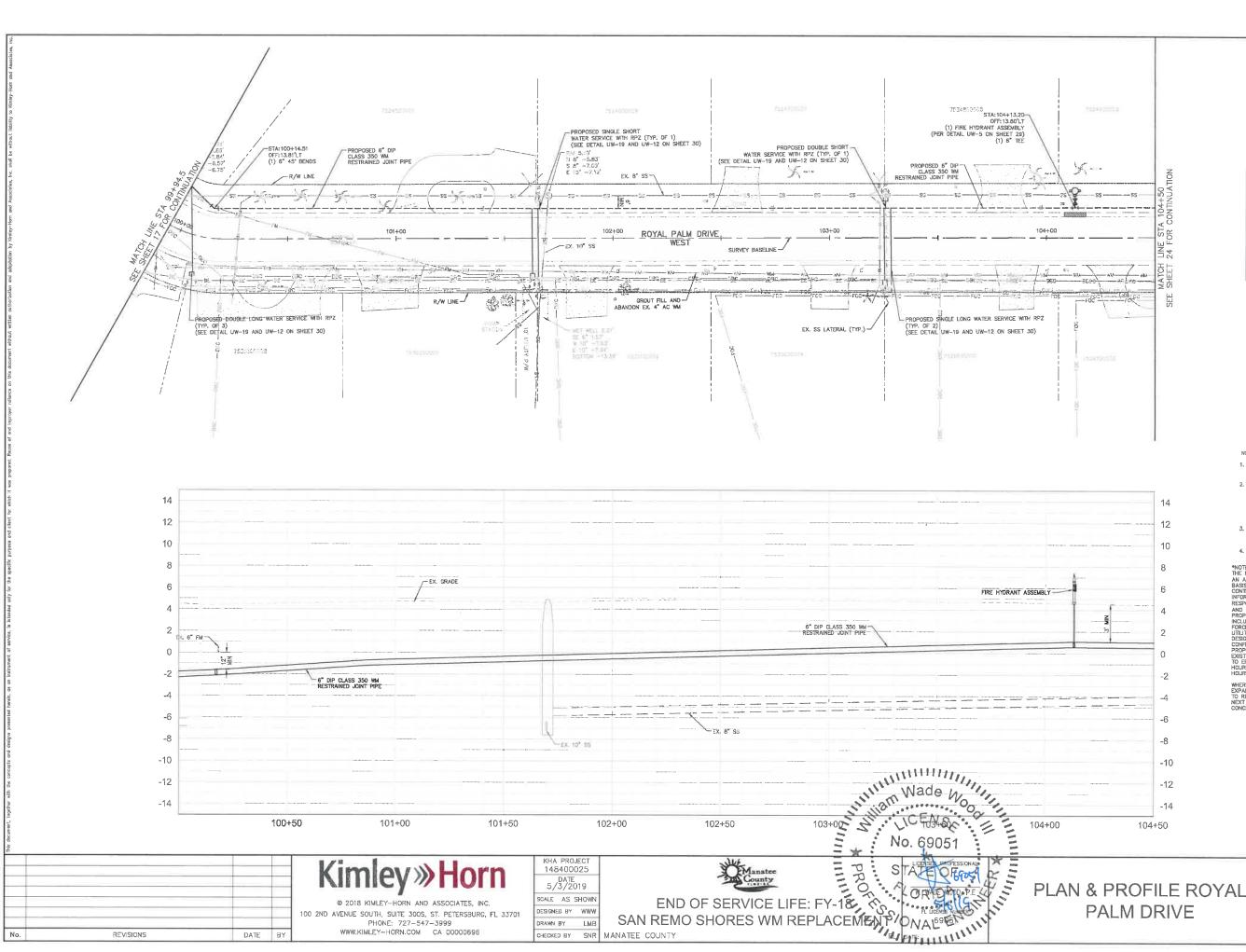
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GROUNDWATER

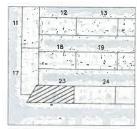
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PLAN & PROFILE PLUMOSA TERRACE SHEET NUMBER







LEGEND

CTHDD OPEN CUT

SIDEWALK/CONCRETE DRIVEWAY RESTORAT BRICK DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION MILLING AND RESURFACING

- CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 29.
- LE FALLS ON STEEL 28.

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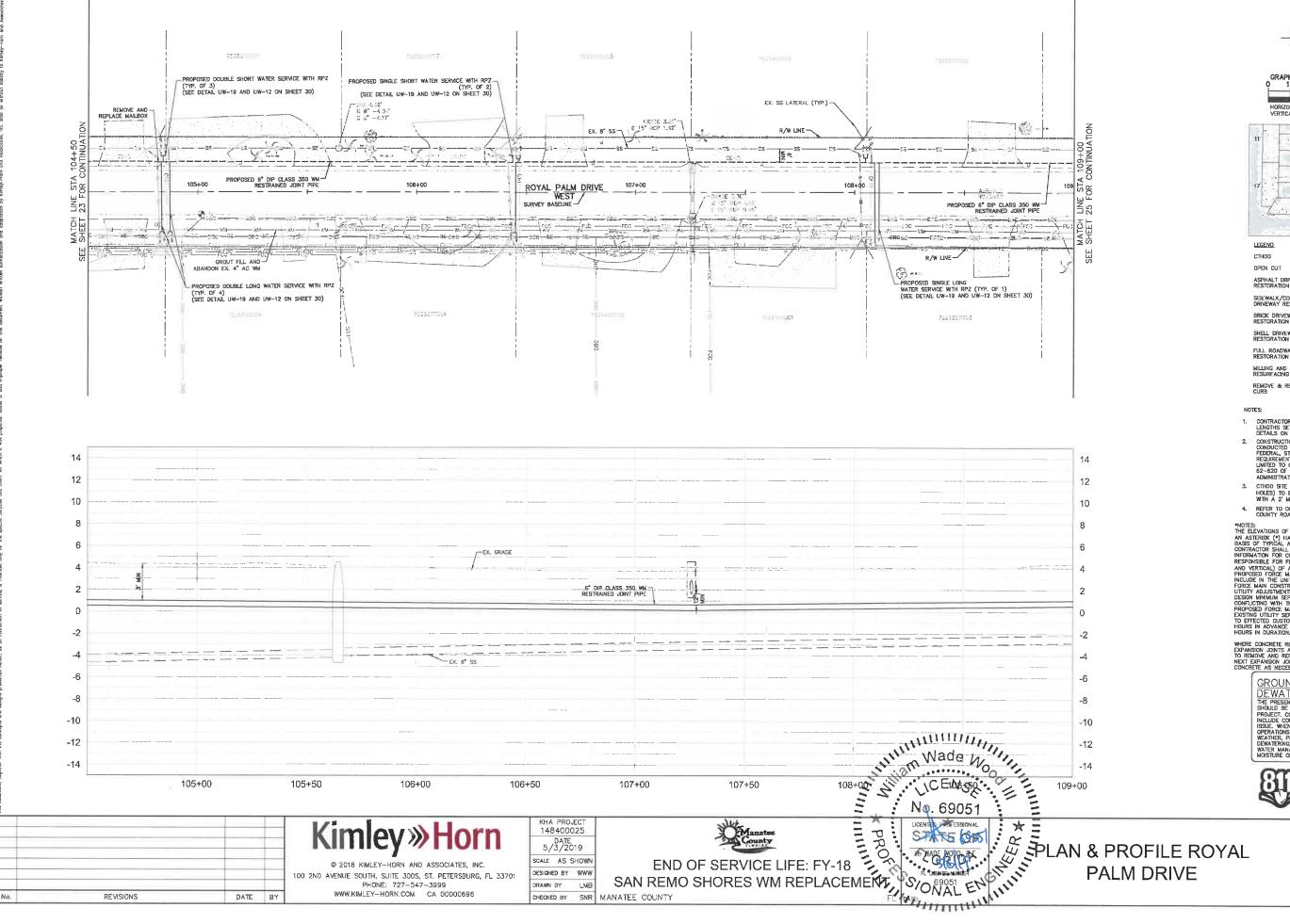
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SHEET NUMBER







LEGEND CTHDD

OPEN CUT

SHELL DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION

REMOVE & REPLACE CURB

- I. CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 29.

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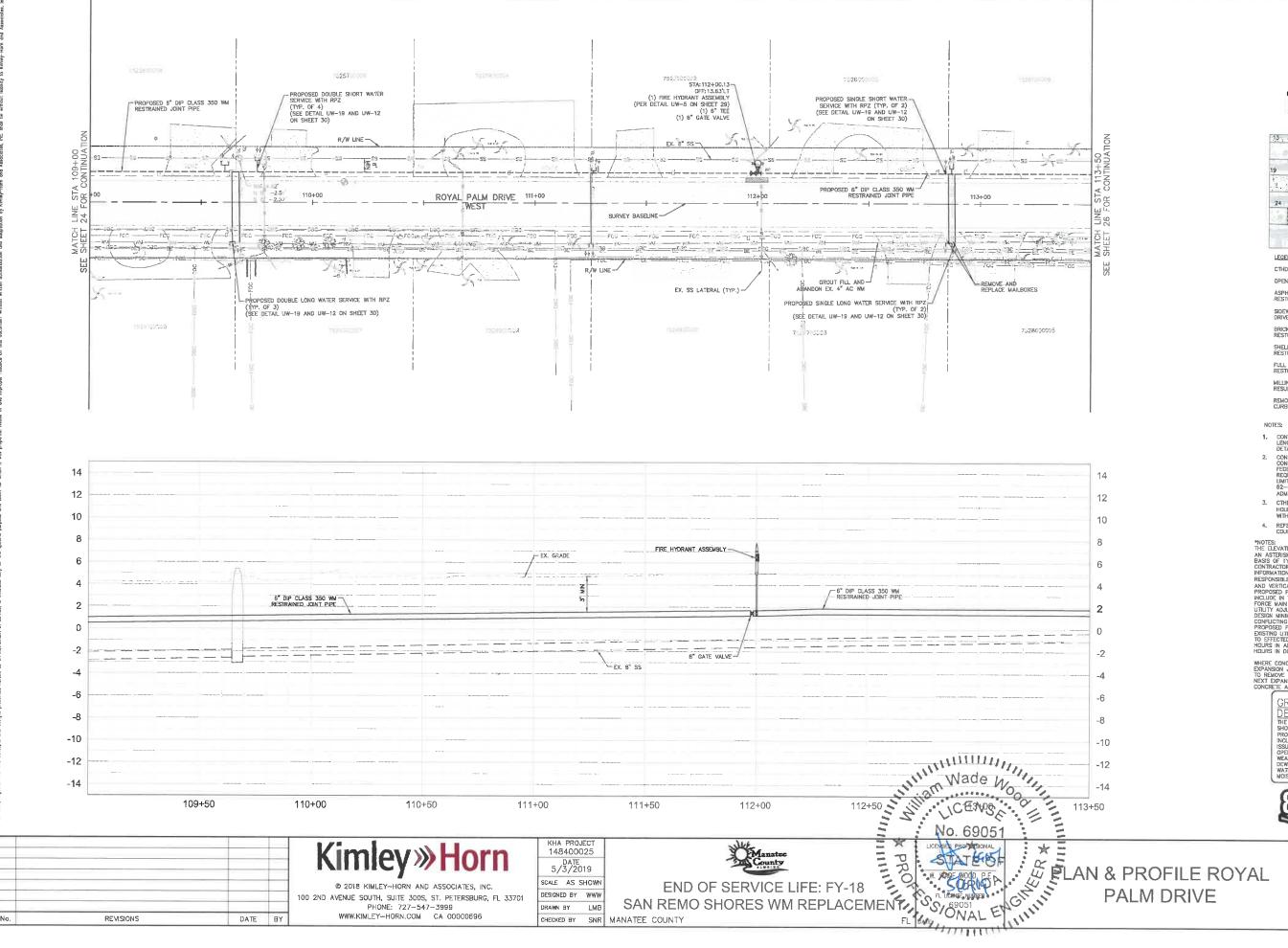
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SHEET NUMBER





LEGEND

CTHDD OPEN CUT

ASPHALT DRIVEWAY RESTORATION

BRICK DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION

FULL ROADWAY RESTORATION

REMOVE & REPLACE CURB

- 1. CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 29.
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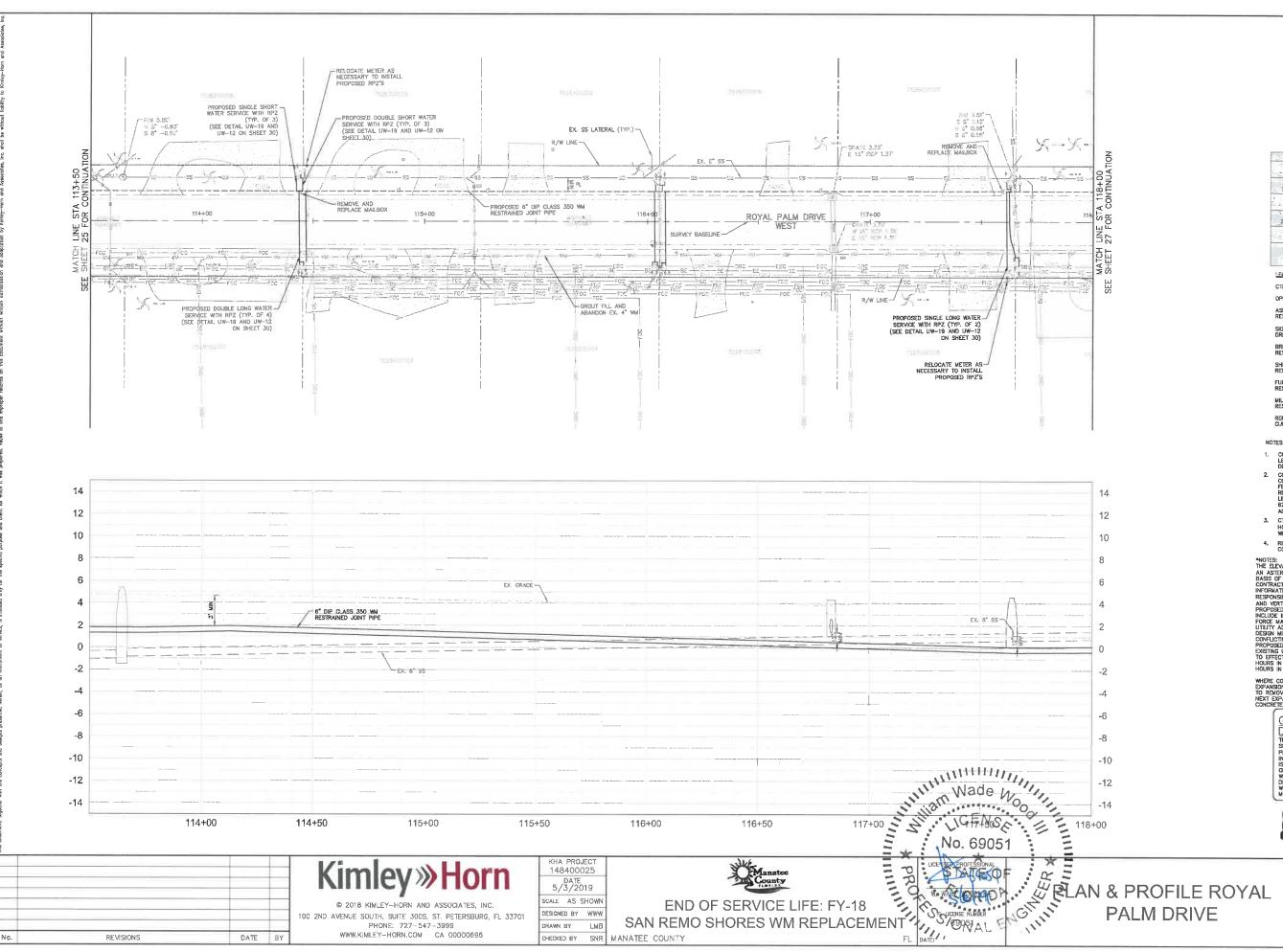
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SHEET NUMBER





LEGEND

CTHOD

OPEN CUT

ASPHALT DRIVEWAY RESTORATION

SIDEWALK/CONCRETE DRIVEWAY RESTORATION

SHELL DRIVEWAY RESTORATION FULL ROADWAY RESTORATION

MILLING AND RESURFACING

REMOVE & REPLACE CURB

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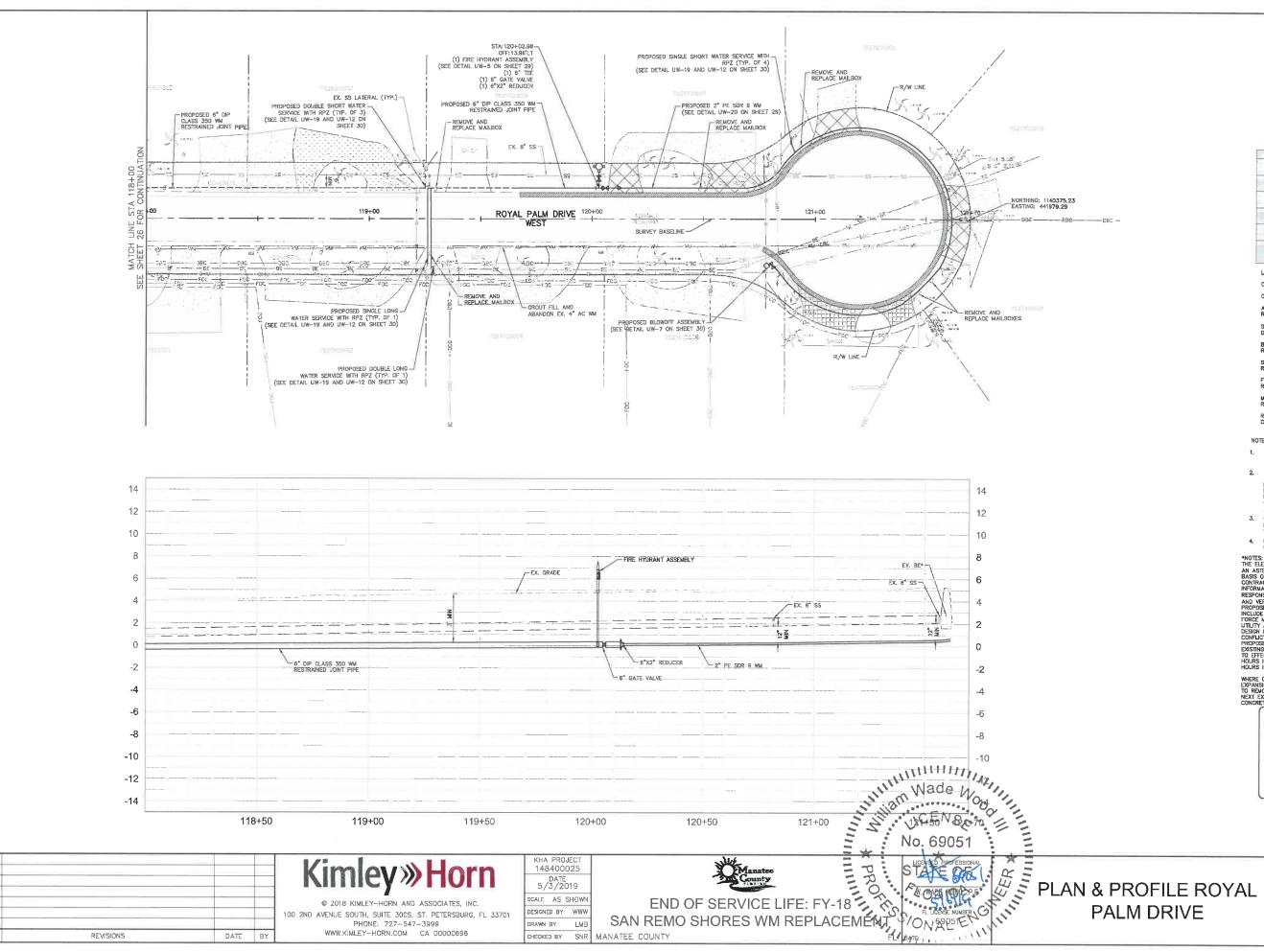
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SHEET NUMBER



DRAWN BY LMB

CHECKED BY SNR MANATEE COUNTY

100 2ND AVENUE SOUTH, SUITE 300S, ST. PETERSBURG, FL 33701 PHONE: 727-547-3999

WWW.KIMLEY-HORN.COM CA 00000696

DATE



HORIZONTAL SCALE: 1"=20" VERTICAL SCALE: 1"=4"



J	*** .w*	-
	LEGEND	
	CTHOD	
	OPEN CUT	
	ASPHALT DRIVEWAY RESTORATION	
	SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
	BRICK DRIVEWAY RESTORATION	
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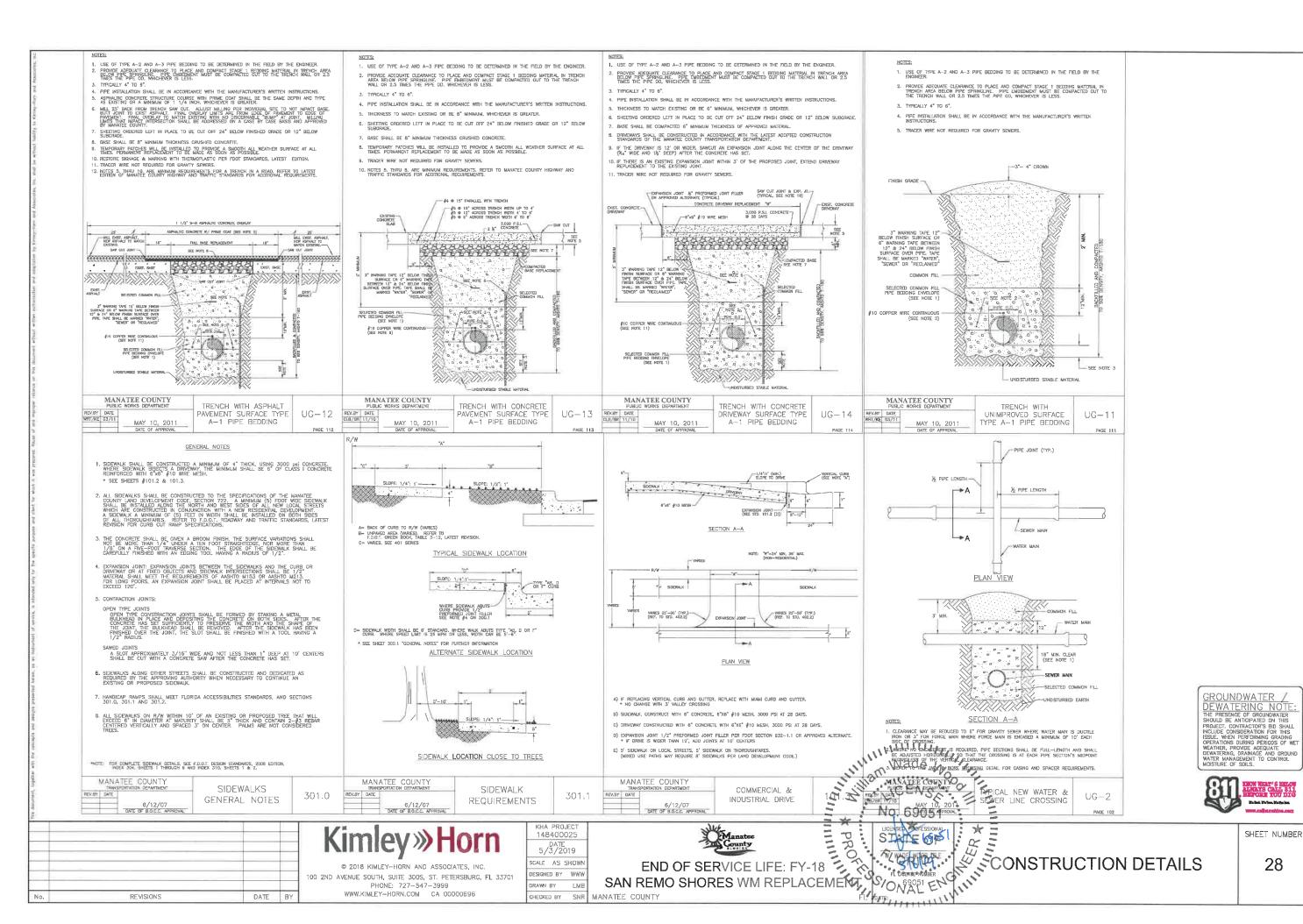
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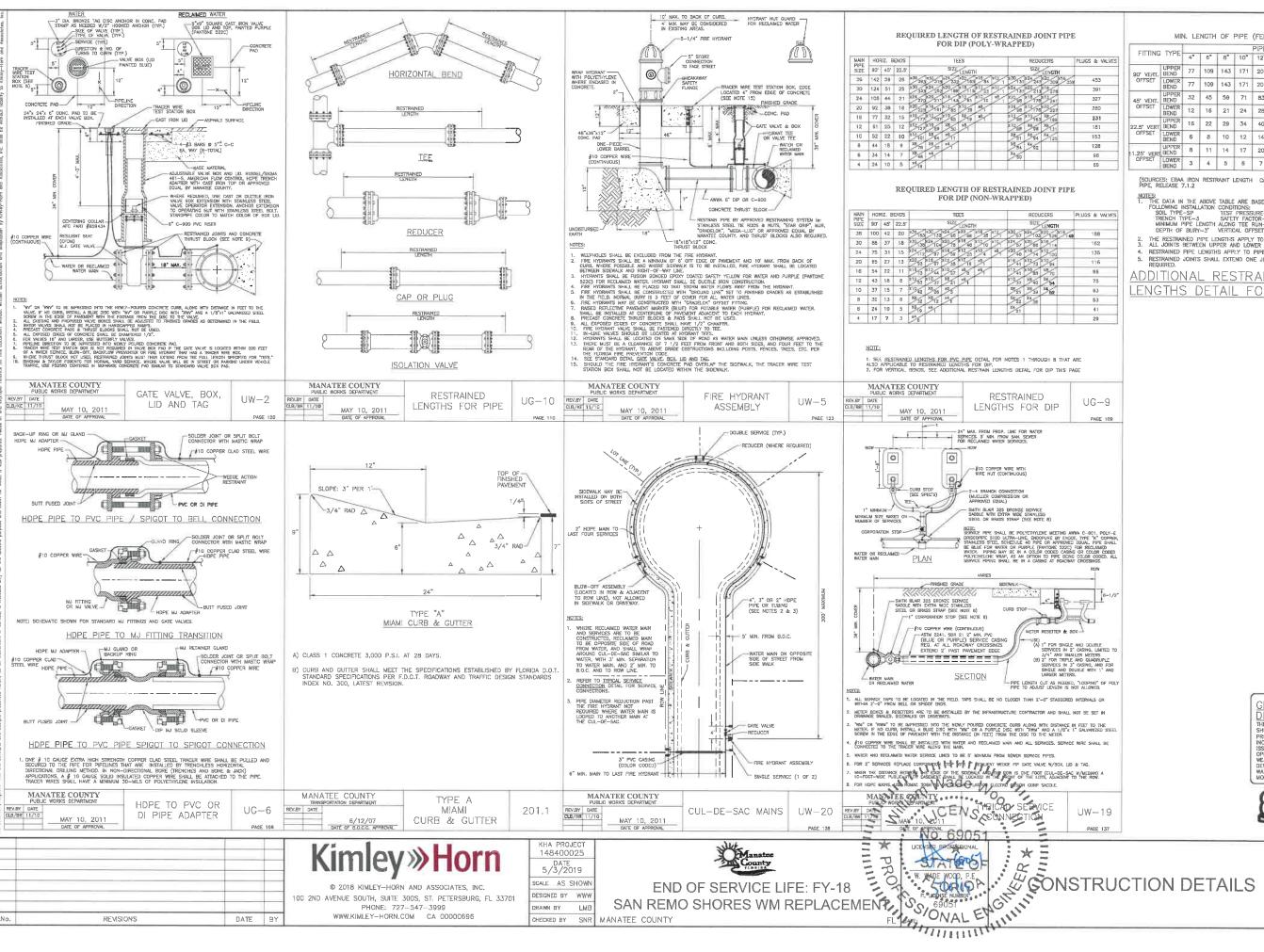
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SHEET NUMBER





MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED

FITTING TYPE			PIPE SIZE								
		4"	6"	8*	10"	12"	16"	20"	24"	30"	36"
90° VERT.	UPPER BEND	77	109	143	171	201	257	311	363	435	503
OFFSET	LOWER BEND	77	109	143	171	201	257	311	363	435	503
45° VERT.	UPPER BEND	32	45	59	71	83	107	129	151	180	209
OFFSET	LOWER BEND	12	16	21	24	28	36	43	49	58	66
22.5" VERT	UPPER BEND	16	22	29	34	40	52	62	73	87	100
OFFSET	LOWER BEND	6	8	10	12	14	17	21	24	28	32
1.25° VERT OFFSET	UPPER BEND	8	11	14	17	20	26	28	31	36	43
	LOWER BEND	3	4	5	6	7	9	10	11	12	14

(SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR DIPPER RELEASE 7.1.2

NOTES:

1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:

SOIL TYPE-SP
TRENCH TYPE-3
MINIMUM PIPE LENGTH ALONG TEE RUM-5'.
DEPTH OF BURY-3' VERTICAL OFFSET-3'

2. THE RESTRAINED PIPE LENGTHIS APPLY TO POLYWRAPPED DI PIPE.
3. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
4. RESTRAINED PIPE LENGTHIS APPLY TO PIPE ON BOTH SIDES OF FITTINGS.
5. RESTRAINED JOINTS SHALL EXTEND ONE JOINT BEYOND MIN. LENGTH REQUIRED.

ADDITIONAL RESTRAIN ENGTHS DETAIL FOR DIP

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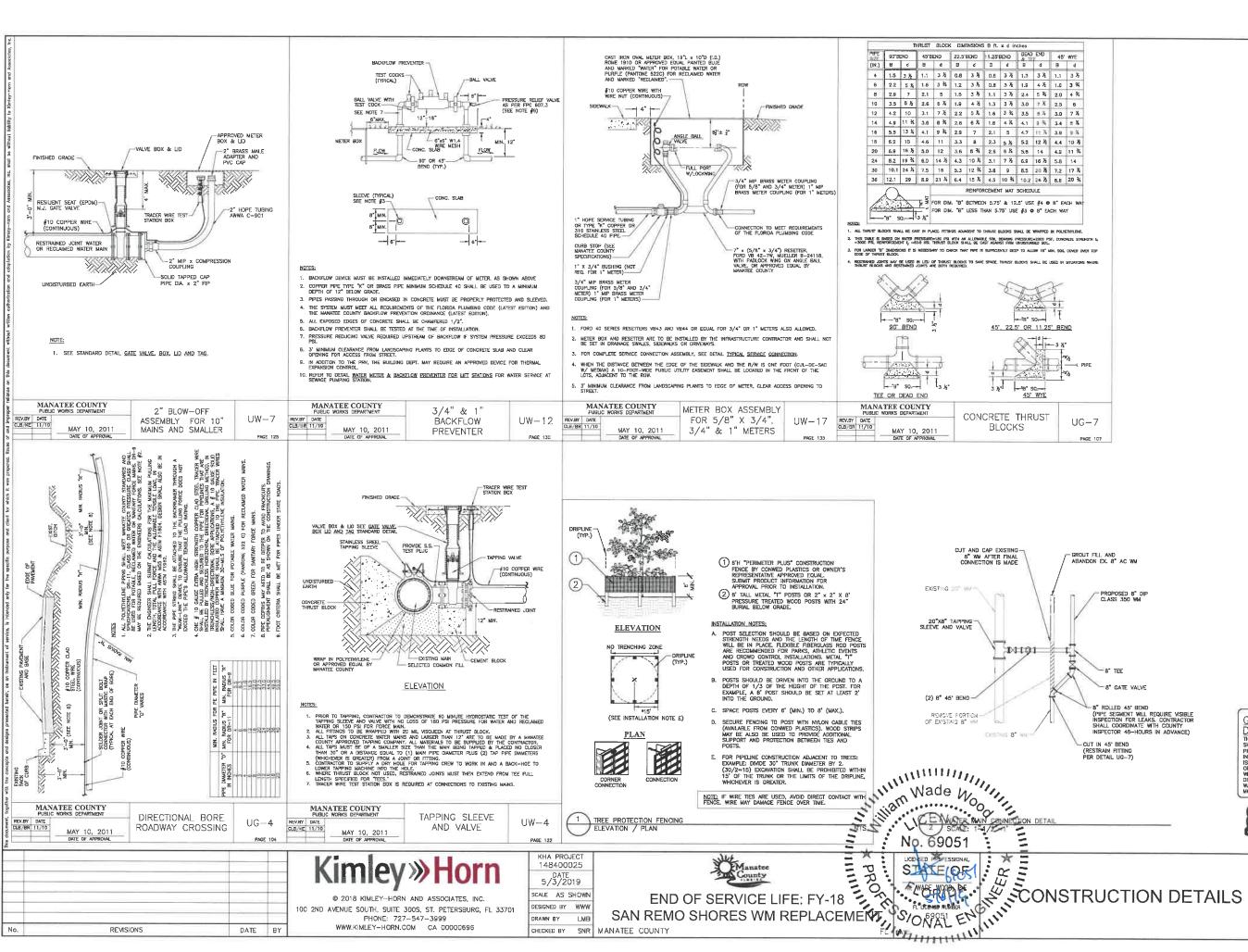
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DESIGNED BY WWW

DRAWN BY LMB

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WWW.KIMLEY-HORN.COM CA 00000696

REVISIONS

DATE BY

SHEET NUMBER

Parlet, Parles, National

30

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