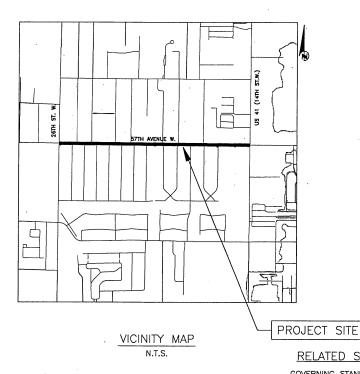


MANATEE COUNTY, FLORIDA 57TH AVE. SIDEWALK FROM US 41 TO 26TH ST. W. MANATEE COUNTY, FL 9012180

October 28, 2013



ROJECT DESCRIPTION

SIDEWALK - SAFE ROUTE TO SCHOOLS 57TH AVE. FROM US 41 TO 26TH ST. W.

PLANS FOR THE INSTALLATION OF SIDEWALK ALONG 57TH AVE W. FROM 26TH ST. W. TO US 41 (14TH ST. W.)

TOTAL LENGTH OF PROJECT (CENTERLINE): 0.739 MILES

TOTAL LENGTH OF PROPOSED SIDEWALK 5259 LF

TOTAL LENGTH OF PEDESTRIAN BRIDGE:

ROJECT SITE RELATED STANDARDS AND SPECIFICATIONS GOVERNING STANDARDS AND SPECIFICATIONS SITE LOCATION FLORIDA DEPARTMENT OF TRANSPORTATION 2013 DESIGN STANDARDS AND REVISED INDEX DRAWNINGS, AS APPENDED HEREIN, AND APPLICABLE ARTICLES AND SUBARTICLES OF DIVISION I AND ALL OF DIVISIONS II & UI OF THE 2013 STANDARDS STANDARDS STANDARDS SHOPE SITE OF DIVISION I AND ALL OF DIVISIONS II & UI OF THE 2013 STANDARDS PECIFICATIONS

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEB SITE:

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE

HTTP://WWW.DOT.STATE.FL.US/RDDESIGN/

FINAL PLANS

NO.	INDEX OF SHEETS
1	COVER SHEET
2-3	GENERAL NOTES & LEGEND (2)
4	PROJECT LAYOUT
5	TYPICAL SECTION
6-14	PLAN & PROFILE (9)
15	DRAINAGE CROSS SECTION
16	PEDESTRIAN BRIDGE DETAILS
17	PEDESTRIAN BRIDGE FOUNDATION

SHOP DRAWINGS TO BE SUBMITTED TO :

JOHN SEALS, P.E. KING ENGINEERING ASSOC, INC. 4921 MEMORIAL CENTER, SUITE 300 TAMPA, FLORIDA 33634 PHONE: 813 880 8881 FAX: 813 880 8882

PLANS PREPARED BY:



4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone 813 880-8881
Fax 813 880-8882
www.kingengineering.com
Engineering License #2610



SURVEY #

DESIGNED

Know what's below

Call before you dig

SEC./TWN./RGE

1"=40'

CKH 08/27/1

CKH 08/27/1

JRS 08/27/1

JOHN SEALS, P.E.

FLORIDA P.E. # 51505

Signature & Date

SHEET 1

DATE

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION.
 THE PROJECT MANAGER IS: KENT D BONTRAGER, P.E. AND CAN BE REACHED AT (941) 708-7450; EXT. 7331.
- 2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS, THESE SITE VISITS CAN BE ARRANGED THROUGH THE
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- 4. ELEVATIONS SHOWN HEREON ARE BASED ON A FOUND %" CAPPED IRON ROD STAMPED #6982 WITH AN ELEVATION OF 18.61 FEET. ELEVATIONS BASED ON GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)
- 5. 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.
- 6. 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 NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- 8 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL WINDER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-0F-WAY.
- 9. ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- 10. THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS
- 11. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID TEXT. THE APPROPRIATE BID ITEM.
- 12. THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT—RELATED ISSUES.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.
- THIS INCLUDED MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
- 14. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTORY OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- 15. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.
- 16. ALL SIGNING, STRIPING AND RPM PLACEMENT WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.

SAFETY

- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS
 OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION
 SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS
- 18. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 19. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 20. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

FNVIRONMENTAL

- 21. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF—SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
- 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 DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- 24. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "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 THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME 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 BODIES 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 FROSION WITHIN ONE (1) WEEK OF INSTALLATION. 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
- 30. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT 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.
- 32. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

- 33. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
 34. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT
- 35. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY CONTRACTOR AT THE PRE—CONSTRUCTION MEETING.
- 36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS, THAT ARE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT
- 37. 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. ROADWAY PLANS AND PROPOSED DESIGN ARE BASED ON TOPOGRAPHIC SURVEYS PROVIDED BY MANATEE COUNTY PROJECT MANAGEMENT AND ZOLLAR NAJJAR & SHROYER UNDER COUNTY PROJECT NO'S 334-6001060 AND 319-6045661.
 REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.
- 38. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED UTILITY COMPANY FOR THE ADJUSTMENT OF ANY EXISTING UTILITIES AND STRUCTURES IN ORDER TO MATCH THE PROPOSED ELEVATIONS AND ALIGNMENTS.
- 39. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR FASEMENT.

- 40. 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 ASSOLUTELY 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 AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERSIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE REGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED VV, VH, AND VVH ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN.
 INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. EXTREME CAUTION SHALL BE EXERCISED WHEN
 WORKING NEAR THE WATERLINE.
- 41. 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 AREA. THE CONTRACTOR SHALL REPAIR 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.
- 42. 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.
- 43 EXCEPT WERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT. ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
- 44. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CAMTILEVER SIGNS/ROUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (SEPARATION VEHICLE AND HORIZONIALE 27 CONTINUENCE AND LOCAT ASSOCIATED WITH THIS TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY ITEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY COORDINATION.
- 45. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES FOR THE RELOCATION AND ADJUSTMENT OF ALL UTILITIES, INCLUDING, ANY EXISTING POWER POLES AND/OR UTILITY CONDUITS WITHIN RIGHT-OF-WAY.
- 46 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK, KNOWN AS ATMS (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMMODATE ANY POTENTIAL CONFLICTS. AS-BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM OLGA ROSIER, WITH UTILITY RECORDS (941-792-8811 EXT. 5059). CONSTRUCTION PLAN INFORMATION FOR PROJECTS UNDER CONSTRUCTION WITH THE COUNTY'S TRAFFIC MANAGEMENT CENTER ARE AVAILABLE AT WWW.MANATEEATMS.COM AND WWW.MANATEEATMS2.COM.

DRAINAGE AND GRADING

- 47. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED
- 48 THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWIN IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATECOUNTY TRANSPORTATION DEPARTMENT STANDARDS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES. RECORD DRAWINGS SHALL SPECIFICALLY CERTIFIED TO THE DWINER, APPROPHAILE GOVERNMENTAL AGENCIES. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKE WITH THE LEVATION CLEARLY AND FERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER), TOP OF BANK AND ELEVATION (NWL25), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
- 49 TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION STAKED HAY BALES STAKED SLIT SCREENS OR INLET LID PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAT BALES, STAKED SILL SUCKERS ON INCEL DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY INFRASTRUCTURE INSPECTIONS RESOURCES DIVISION (708-7450) PRIOR TO COMMENCEMENT OF . CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE

CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE—HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING FOR POTENTIAL ENGINEN PROBLEMS. IP PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ONSITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF—SITE UNTREATED RUN—OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.

- 50. ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
- 51. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIEY THE ACCURACY OF THE INFORMATION PROVIDED TO VERIEY THE ACCURACY OF THE INFORMATION PROVIDED.
- 52. THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT
- 53. ROADSIDE UNDERDRAIN SHOWN ON PLAN IS MINIMUM AND EXTENSION SHALL BE REQUIRED AS DETERMINED NECESSARY BY THE ENGINEER OF RECORD AND/OR MCPWD INSPECTION DEPARTMENT DURING THE COURSE OF
- 54. SUITABLE FILL MATERIAL FROM EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS.
 UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SI
 ENGINEER IN ACCORDANCE WITH FDOT INDEX 505.
- 55. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
- 56. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- 57. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
- 58. THE CONTRACTOR SHALL REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON—SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.
- 59. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
- 60. STATION LOCATIONS AND OFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM. STATION LOCATION IS CENTER OF STRUCTURE BOTTOM FOR JUNCTION BOXES, CENTER OF RISER FOR CURB INLETS. FOR PIPES WITH MITERED END SECTIONS, PEYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. AS SPECIFIED BY DIMENSION "F" AS SHOWN IN FDOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINCENT.
- 61. ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS. ALL DRAINAGE BOX DETAIL SHALL FOLLOW MANATEE COUNTY CURRENT STANDARD 202 UNLESS IT IS DESIGNATED IN THE PLAN. ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.
- 62. DURING DEWATERING OPERATIONS. THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS. EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHAREF FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT
- 63. <u>SLURRY WALL</u> CONSTRUCTION OF THE SLURRY WALL SHOULD BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THE CONTRACTOR BY A GEOTECHNICAL SPECIALTY CONTRACTOR EXPERIENCED IN CONSTRUCTION OF CLAY SLURRY WALLS. CONTRACTOR SHOULD REVIEW GEOTECHNICAL REPORT, PLANS, AND RETAIN EXPERIENCED PERSONNEL TO CARRY OUT THE OPERATIONS, SAFETY, TESTING AND QUALITY CONTROL AS SPECIFIED. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TECHNICAL SPECIFICATIONS, FOR ENGINEER'S APPROVED THAT COVER MATERIALS, EQUIPMENT, EXCAVATION OF THE WORK (I.E. SLURRY TRENCHING, KEY, CLEANING TRENCH BOTTOM, BACKFILL MIXING & BACKFILL PLACEMENT), CLEAN-UP, SPILL CONTINGENCY PLAN, QUALITY CONTROL, AND TESTING. IN ADDITION, THE FOLLOWING SHALL BE SUPPLIED PRIOR TO START OF CONSTRUCTION: ROBERT CENT
- A SOIL-BENTONITE SLURRY MIX DESIGN AND TRIAL MIX REPORTS, INCLUDING MIX PROPORTIONS, DENSITY, MOISTURE CONTENT, GRADATIONS, AND HYDRAULC CONDUCTIVITY SHALL BE PERFORMED.
- B. SPECIFICATIONS OF THE BATCH PLANT AND LAYOUTS SHOWING LOCATIONS OF EQUIPMENT, PONDS, TANKS, PUMPS, VALVES, HOSES AND SUPPLY
- C. SOURCE OF ALL IMPORTED MATERIAL, INCLUDING BENTONITE. SHIPMENT OF MATERIALS TO THE SITE SHALL BE ACCOMPANIED BY THE SHIPPER'S WRITTEN VERIFICATION OF THE QUALITY OR SPECIFICATION OF THE MATERIAL, A COPY OF WHICH SHALL BE RETAINED BY THE CONTRACTOR.
- D. CERTIFICATION OF BENTONITE QUALITY, SHOWING COMPLIANCE WITH API STANDARD 13A.
- E. CERTIFICATION OF QUALITY OF ANY ADMIXTURE.

ADDITIONAL NOTES:

VALVE BOX ADJUSTMENT MEASUREMENT & PAYMENT:

1. PAY ITEM UW-2-100
MEASUREMENT SHALL BE PER EACH VALVE ADJUSTED, IN WHICH REPLACEMENT OF VALVE BOX COMPONENTS,
MEASUREMENT SHALL BE PER EACH VALVE ADJUSTED, IN WHICH REPLACEMENT OF VALVE BOX COMPONENTS,
MEASUREMENT SHALL BE PER EACH VALVE ADJUSTED. PAYMENT FOR FACIL LINIT ITEM SHALL CONCRETE PAD, AND/OR TRACER WIRE TEST STATION WAS COMPLETED. PAYMENT FOR EACH UNIT ITEM SHALL INCLUDE FURNISHING AND INSTALLING ALL MATERIALS REQUIRED FOR A NEW VALVE BOX AND PAD IN ACCORDANCE WITH MANATEE CO. PUBLIC WORKS DEPT. STANDARD DETAIL UW-2, INCLUDING A NEW CAST IRON VALVE BOX TOP SECTION (WHERE THE EXISTING BOX CANNOT BE ADJUSTED VERTICALLY), TRACER WIRE TEST STATION (WHERE EXISTING TEST STATION IS PRESENT), BRONZE TAG, AND CONCRETE PAD WITH SPECIFIED STAMP IMPRESSIONS WHERE

1. TREE REMOVAL AND ROOT PRUNING TO BE PAID UNDER LUMP SUM FEE FOR CLEARING AND GRUBBING.



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COUNTY, ALK H197 Ŭ N EE **10** ◂ 4 SZ \triangleleft Ì

STATE STATE STATE OF THE PROPERTY OF THE PROPE 9012180 000 SEC./TWN./RGE ____ SCALE 1"=40 DATE

ROBERT

My O

SURVEYED DESIGNED CKH 08/27/13 CKH 08/27/13 DRAWN CHECKED JRS 08/27/13 JOHN SEALS, P.E

FLORIDA P.E. # 51505

BOX CULVERT DESIGN SPECIFICATIONS:

64. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANPORTATION OFFICIALS (AASHTO), STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1998 EDITION, AND APPROVE

 ${
m HS-20-44}$ LIVE LOAD, FUTURE WEARING SURFACE OF (15 LB/SF) AND ALL DEAD LOADS AS SHOWN ON THE PLANS.

DESIGN METHOD: LOAD FACTOR DESIGN

ENVIRONMENT: EXTREMELY AGGRESSIVE

MATERIALS: ALL MATERIALS SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007 EDITION & SUPPLEMENTS THERE TO)

ALLOWABLE SOIL BEARING: 2 500 PSF

PRECAST BOX CULVERT:
THE PRECAST BOX CULVERT SHALL CONFORM TO THE FLORIDA DEPARTMENT OF
TRANSPORTATION DESIGN STANDARDS FOR A TRIPLE-BARREL, 4 FOOT X 8 FOOT STRUCTURE OR AN APPROVED EQUAL

SUBMITTALS:
THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE PRECAST BOX CULVERT FOR THE ENGINEERS APPROVAL AND GEOTECHNICAL REPORTS FOR FOUNDATION DESIGN.

MITIGATION NOTES

- 65. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ENHANCED/ CREATED WETLANDS UNTIL PROJECT DRAINAGE AND GRADING IS COMPLETED AND ACCEPTED BY
- 66. MAINTENANCE SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS. WETLAND BOUNDARY AND BUFFER AREAS SHALL BE CLEARLY DELINEATED ON SITE PRIOR TO INITIAL CLEARING AND GRUBBING ACTIVITIES. THE DELINEATION SHALL ENDURE THROUGHOUT THE CONSTRUCTION PERIOD, AND BE READILY DISCERNIBLE TO CONSTRUCTION PERSONNEL. THE WETLAND (JURISDICTIONAL) AND BUFFER AREAS ARE TO BE IDENTIFIED IN THE FIELD WITH STAKES AND FLAGGED STRING LINES (STRING LINE 5' ABOVE GRADE WITH FLAGGING AT 10' INTERVALS) PRIOR TO COMMENCEMENT OF CLEARING AND GRUBBING. THE STRING LINE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL STAY OUT OF THE EXISTING WETLAND AND BUFFER AREAS, EXCEPT WHERE PLANS CALL OUT SPECIFIC WORK TO BE PERFORMED.

RESTORATION

- 67. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 68. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLAITINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO
- 69. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T.
- WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION, PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY—ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- 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

CONSTRUCTION

- 72. 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 BAFFELS POSITIONED TO BREAK LINE—OF—SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS
- 73. 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.
- 74. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 75. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 76. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.
- 77. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTICT FOR APPROVAL PRIOR TO
- ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 79. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS. REFER TO DETAIL SHEET FOR ALL REFERENCE POINTS.
- 80. 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
- 81. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.

- 82. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 83. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FOOT DESIGN STANDARDS, LATEST VERSION.
- 84. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIAS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND
- 85. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
- 86. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.
- 87. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
- 88. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK.THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES. AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
- 89. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 90. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
- 91. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND
- 92. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEVER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
- 93. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).
- 94. ALL EXISTING TREES LOCATED WITHIN R/W LIMITS SHALL REMAIN UNLESS OTHERWISE
- 95. ALL EXISTING STORM DRAINAGE STRUCTURES SHALL BE REMOVED UNLESS OTHERWISE
- 96. ALL EXISTING BUILDINGS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 97. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS

LEGEND

EXISTING

•	BENCH MARK	\bigcirc	BUSH	AE	BBREVIATIONS
	CONCRETE MONUMENT	**	TREE		
	IRON PIPE	3	OAK TREE	R/W	RIGHT OF WAY
	IRON ROD	X	PALM TREE	CONC	CONCRETE
۵	HUB	*	PINE TREE	ASPH	ASPHALT
•	NAIL & DISK	win	EDGE OF VEGETATION	DRWY	DRIVEWAY
×87.5	ELEVATION		- CHAIN LINK FENCE	SWK .	SIDEWALK
1234	PARCEL ID NO.		- WOOD FENCE	EP	EDGE OF PAVEMENT
\$378	PARCEL ID NO.	xx	BARBED WIRE FENCE	BOC	BACK OF CURB
77	LOT NO.	FM	FORCE MAIN		
←	GUY WIRE	PW	POTABLE WATER		
\$	POWER POLE		RECLAIMED WATER		
Č	LIGHT POLE	SS	- SANITARY SEWER		
	MAIL BOX		STORM DRAIN		
d	SIGN	GAS	- GAS LINE		PROPOSED
•	REFLECTOR	OCATY	OVERHEAD_CABLE_TV		
•	SPRINKLER	BCATV	- BURIED_CABLE_TV		- MAIN
©	GAS MARKER	oe	OVERHEAD ELECTRIC		- SERVICE LINE
-0-	BACKFLOW PREVENTER	BE	BURIED_ELECTRIC		- PROPOSED EASEMENT
⊳ 40	BLOW OFF VALVE	OHVER	OVERHEAD VERIZON	A	FIRE HYDRANT
-	FIRE HYDRANT	BVER	BURIED VERIZON	▶	VALVE
₩	WATER VALVE	VER	- VERIZON	9	SANITARY SEWER MANHOLE
⊗	AIR RELEASE VALVE	BU	BURIED_UTILITY		BLOW OFF ASSEMBLY
	WATER METER	ОНО	OVERHEAD UTILITY	◀	REDUCER
S.	SANITARY SEWER MANHOLE	++++++	RAIL ROAD TRACKS	H	TEE
0	SANITARY SEWER CLEAN OUT		EDGE OF CONCRETE	\checkmark	HORIZONTAL BEND
SB# 💠	SOIL BORING LOCATION		EDGE OF ROAD	\rightarrow	VERTICAL BEND
TEL ŒD	TELEPHONE SERVICE BOX		TOE OF SLOPE)	PLUG
-88 T	FLOW DIRECTION		TOP OF BANK	0 0	MASTER METER ASSEMBLY
	GRATE INLET		PROPERTY LINE		SERVICE LINE & METER
	MITERED END SECTION		RIGHT OF WAY		DOUBLE SERVICE

CONTACTS

MANATEE COUNTY PUBLIC WORKS DEPT.
INFRASTRUCTURE ENGINEERING
WAYNE TROXLER, P.E.
1022 26TH AVENUE EAST BRADENTON, FL. 34208 (941) 708-7450 FXT, 7650 FAX: (941) 708-7431

TECO/PEOPLES GAS CO. 8261 VICO COURT SARASOTA, FL. 34240 (941), 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911 djshanahan@tecoenergy.com

SUNSHINE STATE ONE CALL OF FI ORIDA 1-(800) 432-4770

DENISE HUTTON 1701 RINGLING BLVD. SARASOTA, FL. 34236 (941) 906-6722 denise.hutton@verizon.com

FLORIDA POWER & LIGHT PALMETTO, FL 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Grea_Coker@fpl.com

WATER

CONCRETE PAD-

#10 COPPER WIRE (CONTINUOUS)

NOTES:

REV.BY DATE

CLB/KE 11/10

24"x 24"x 6" CONC. PAD TO BE TINSTALLED AT EACH VALVE BOX.

CENTERING COLLAR

RESILIENT SEAT

MANATEE COUNTY

MAY 10, 2011 DATE OF APPROVAL

--3" DIA. BRONZE TAG DISC ANCHOR IN CONC. PAD STAMP AS NEEDED W/2" HOOKED ANCHOR (TYP.)

- VALVE BOX (LID

PAINTED BLUE)

9 7

"W" OR "RW" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE. IF NO CUBB, INSTALL A BLUE DISC WITH "RW" OR PURPLE DISC WITH "RW" AND A 1/8"x1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE. ALLE. ALLE ANSTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD. WATER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
PRECAST CONCRETE PADS & THRUST BLOCKS SHALL NOT BE USED.

PRECAST CONCRETE PADS & THRUST BLOCKS SHALL NOT BE USED.
ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2*.
FOR VALVES 16* AND LARGER, USE BUTTERFLY VALVES.
FOR VALVES 16* AND LARGER, USE BUTTERFLY VALVES.
FIPELINE DIRECTION TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE CATE VALVE IS LOCATED WITHIN 200 FEET
OF A WATER SERVICE, BLOW-OFF, BACKFLOW PREVENTIER OR FIRE HORPANT THAT HAS A TRACER WIRE BOX.
WHERE THRUST BLOCK NOT USED, RESTRAINED, JOINTS MUST THEN EXTEND FROM TEE FILL LENGTH SPECIFIED FOR "TEES."
BINGHAM & TAYLOR P200NFO FOR NORMAL YARD SERVICE. WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE
TRAFFIC, USE P52SRD CEMTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.

-PIPELINE

SIZE OF VALVE (TYP.)
TYPE OF VALVE (TYP.)

-SERVICE (TYP)

FLORIDA POWER & LIGHT TRANSMISSION PETER H WASHIO 700 UNIVERSE BLVD. TS4/JW JUNO BEACH, FL. 33408 Peter.H.Washio@ fpl.com

MANATEE COUNTY HEALTH DEPT. HANS C. ROESE 410 6th AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1342 FAX: (941) 750-9364 hans_roese@doh.state.fl.us

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT MANAGEMENI DISTRICI SARASOTA SERVICE-OFFICE DARYL R. FLATT, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377-3722 FAX: (941) 373-7660

FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON RD. TAMPA, FL. 33634 CHRIS LEE (813) 466–3327 CELL: (727) 639-7512 christopher.lee@sug.com

BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON EL 34208-5535 (941) 748-3816 EXT. 21348 tom.wright@mybrighthouse.com

RECLAIMED WATER

4"

TRACER WIRE TEST STATION BOX

-CAST IRON LID

H ≥ 18" MAX. ◀

GATE VALVE, BOX,

LID AND TAG

9"x9" SQUARE CAST IRON VALVE BOX LID AND TOP, PAINTED PURPLE (PANTONE 522C)

- ASPHALT SURFACE

-ADJUSTABLE VALVE BOX AND LID. RUSSEL/SIGMA 461-S, AMERICAN FLOW CONTROL HOPE TRENCH ADAPTER WITH CAST IRON TOP OR APPROVED EQUAL BY MANATEE COUNTY.

WHERE REQUIRED, USE CAST OR DUCTILE IRON VALVE BOX EXTENSION WITH STAINLESS STEEL VALVE OPERATOR EXTENSION. ANCHOR EXTENSION TO OPERATION DATE STAINLESS STEEL BOLT. STANDPIPE COLOR TO MATCH COLOR OF BOX LID.

RESTRAINED JOINTS AND CONCRETE

UW-2

PAGE 120

-4-#3 BARS @ 5"+ C-C EA. WAY (8-TOTAL)

-BASE MATERIAL

-6" C-900 PVC RISER

-CONCRETE

DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT.

FAX: (813) 632-7662

PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL KENDELL COKER 33873 (863) 767-4660 kendell.coker@preco.coop

MANATEE COUNTY
PUBLIC WORK DEPT.
TRAFFIC DESIGN DIVISION
PAUL J. VILLALUZ, P.E., PTOE

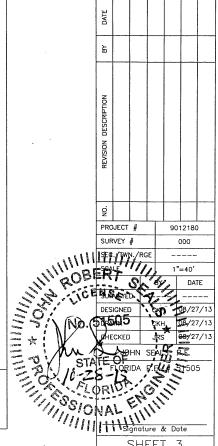
(941) 749-3500 EXT, 7859

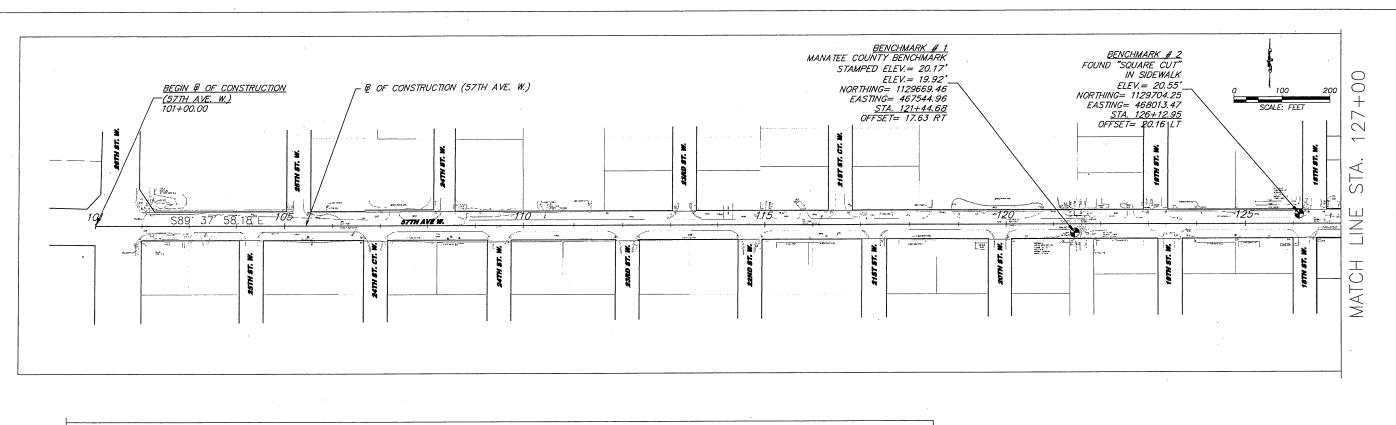


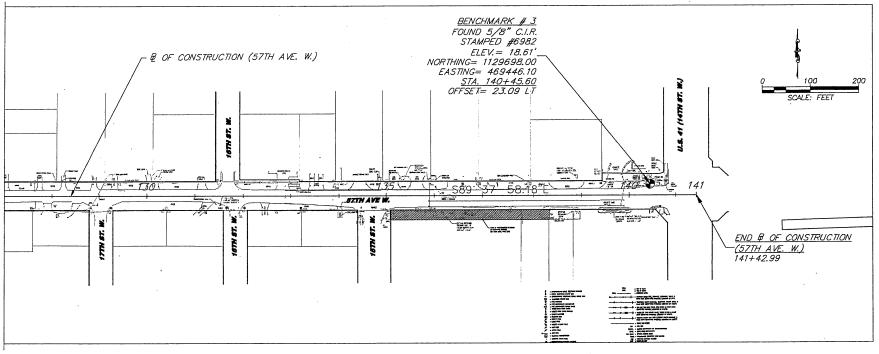
MANATEE COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

1022 26th Avenue Eas

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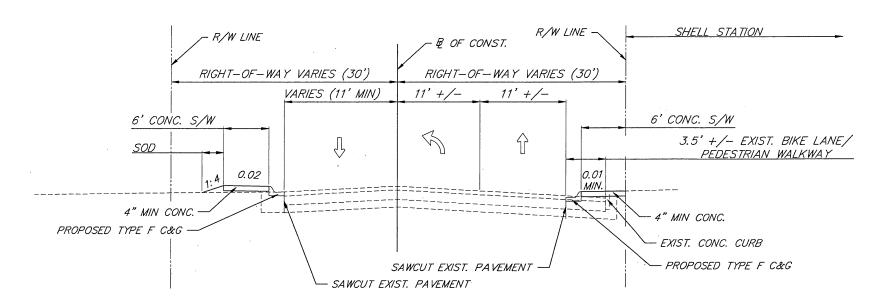
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MANATEE COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

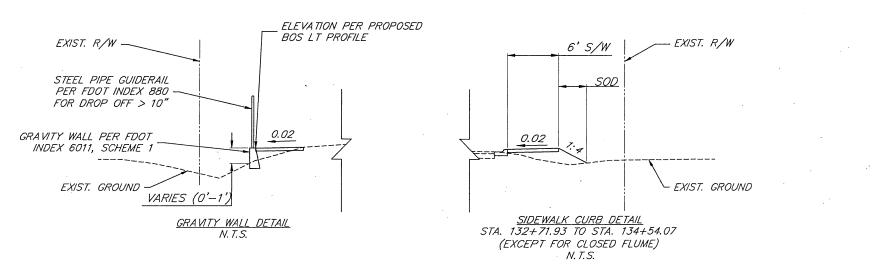
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FROM US 41 (14TH ST. W.) TO 26TH ST. W.



TYPICAL SECTION

N.T.S. 57TH AVE W. SIDEWALK NEAR US 41 (14TH ST. W.)



 POSTED SPEEDS:

 57TH AVE W.
 35 MPH

 26 ST. W.
 40 MPH

 US 41 (14TH ST. W.)
 45 MPH

 US 41 (14TH ST. W.)
 45 MPH

 SIDE STREETS
 30 MPH

LAYER COEFFICIENTS: 0.44 TYPE FC-9.5 FRICTION COURSE 0.44 TYPE SP-9.5 STRUCTURAL COURSE

EXISTING PAVEMENT REHABILITATION DRIVEWAY REHABILITATION:

MILL 1" AVERAGE DEPTH EXIST. ASPHALT PAVEMENT
1" TYPE SP-9.5 ASPHALT CONCRETE (TRAFFIC B) STRUCTURAL
COURSE (OR MANATEE COUNTY APPROVED EQUIVALENT)

NOTES:

SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE FOLLOWING
MANATEE COUNTY HIGHWAY TRAFFIC AND STORMWATER STANDARDS SECTION 300:
http://www.mymanatee.org/home/government/departments/public-works/
engineering-services/engineering-standards.html

- 1. SIDEWALK SHALL BE CONSTRUCTED A MINIMUM OF 4" THICK, USING 3000 PSI CONCRETRE. WHERE SIDEWALK BISECTS A DRIVEWAY, THE MINIMUM SHALL BE 6" OF CLASS I CONCRETE. *SEE SHEETS #101.2 AND 101.3
- 2. ALL SIDEWALKS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE MANATEE COUNTY LAND DEVELOPMENT CODE, SECTION 722. A MINIMUM (5) FOOT WIDE SIDEWALK SHALL BE INSTALLED ALONG THE NORTH AND WEST SIDES OF ALL NEW LOCAL STREETS WHICH ARE CONSTRUCTED IN CONJUNCTION WITH A NEW RESIDENITAL DEVELOPMENT. A SIDEWALK A MINIMUM OF (5) FEET IN WIDTH SHALL BE INSTALLED ON BOTH SIDES OF ALL THOROUGHFARES. REFER TO FDOT ROADWAY AND TRAFFIC STANDARDS, LATEST REVISION FOR CURB CUT RAMP SPECIFICATIONS.
- 3. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE
 VARIATIONS SHALL NOT BE MORE THAN ½" UNDER A TEN FOOT
 STRAIGHTEDGE, NOR MORE THAN 1/8" ON A FIVE—FOOT TRAVERSE
 SECTION. THE EDGE OF THE SIDEWALK SHAL BE CAREFULLY FINISHED WITH
 AN EDGING TOOL HAVING A RADIUS OF ½".
- 4. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE SIDEWALKS AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS SHALL BE ½" MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213. FOR LONG POORS, AN EXPANSION JOINT SHALL BE PLACED AT INTERVALS NOT TO EXCEED 120'.
- 5. CONTRACTION JOINTS:

OPEN TYPE JOINTS:

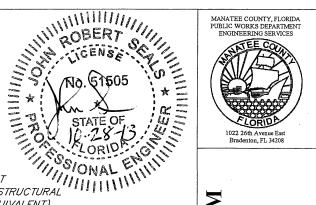
OPEN TYPE CONSTRUCTION JOINTS SHALL BE FORMED BY STAKING A METAL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE ON BOTH SIDES. AFTER THE CONCRETE HAS SET SUFFICIENTLY TO PRESERVE THE WIDTH AND THE SHAPE OF THE JOINT, THE BULKHEAD SHALL BE REMOVED. AFTER THE SIDEWALK HAS BEEN FINISHED OVER THE JOINT, THE SLOT SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS. SAWED JOINTS:

A SLOT APPROXIMATELY 3/16" WIDE AND NOT LESS THAN 1" DEEP AT 10' CENTERS SHALL BE CUT WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET.

- 6. SIDEWALKS ALONG OTHER STREETS SHALL BE CONSTRUCTED AND DEDICATED AS REQUIRED BY THE APPROVING AUTHORITY WHEN NECESSARY TO CONTINUE AN EXISTING OR PROPOSED SIDEWALK.
- 7. HANDICAP RAMPS SHALL MEET FLORIDA ACCESSIBILITIES STANDARDS, AND SECTIONS 301.0, 301.1 AND 301.2.
- 8. ALL SIDEWALKS ON R/W WITH 10' OF AN EXISTING OR PROPOSED TREE THAT WILL EXCEED 6" IN DIAMETER AT MATURITY SHALL BE 5" THICK AND CONTAIN 2-#3 REBAR CENTERED VERTICALLY AND SPACED 3' ON CENTER. PALMS ARE NOT CONSIDERED TREES.

*NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE FDOT DESIGN STANDARDS, 2013 EDITION, INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 310, SHEETS 1 & 2.

CONCRETE DRIVEWAY REPLACEMENT SHALL BE 6" CLASS I CONCRETE, 3000 PSI MIN. W/ FIBER.

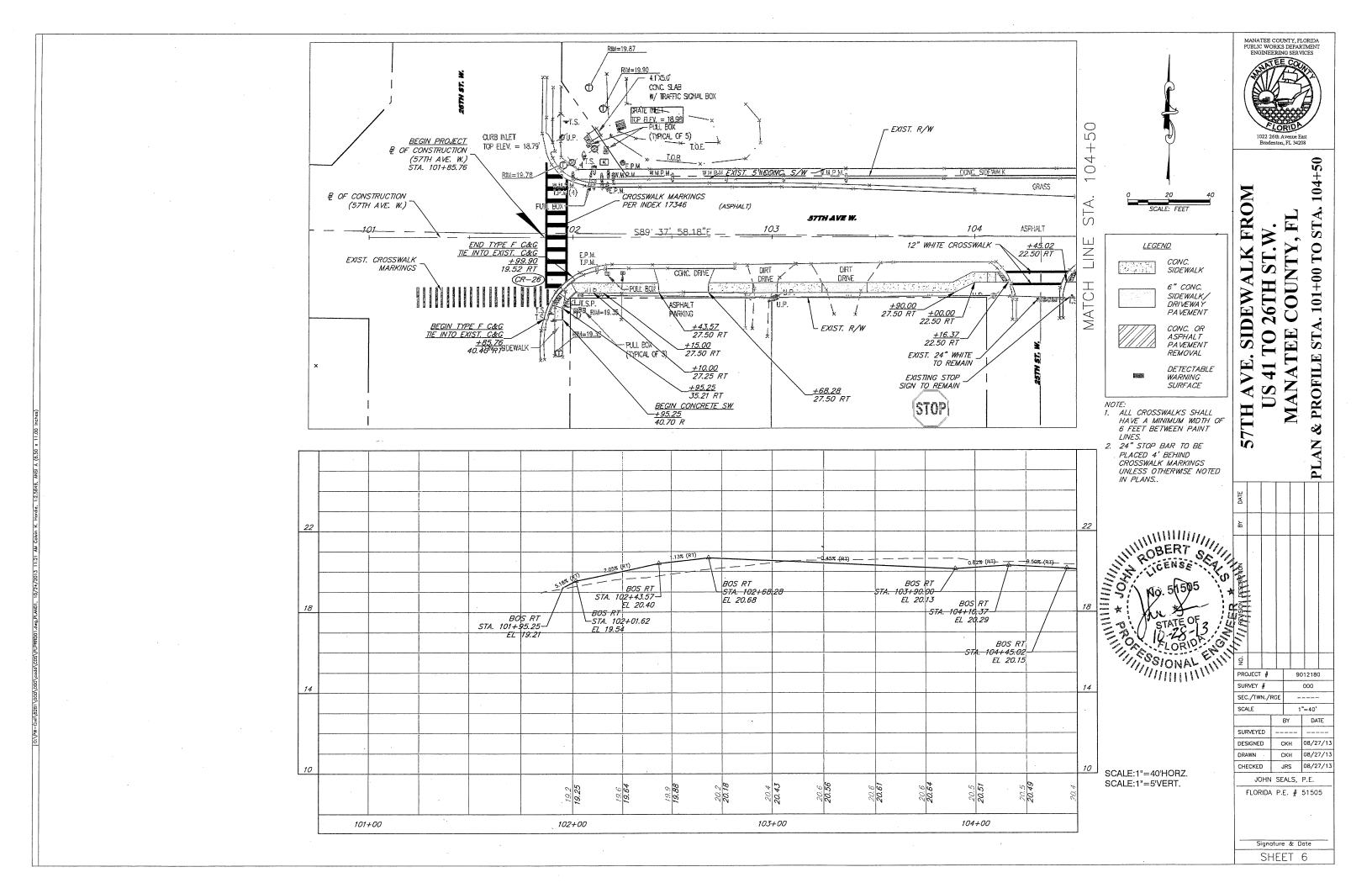


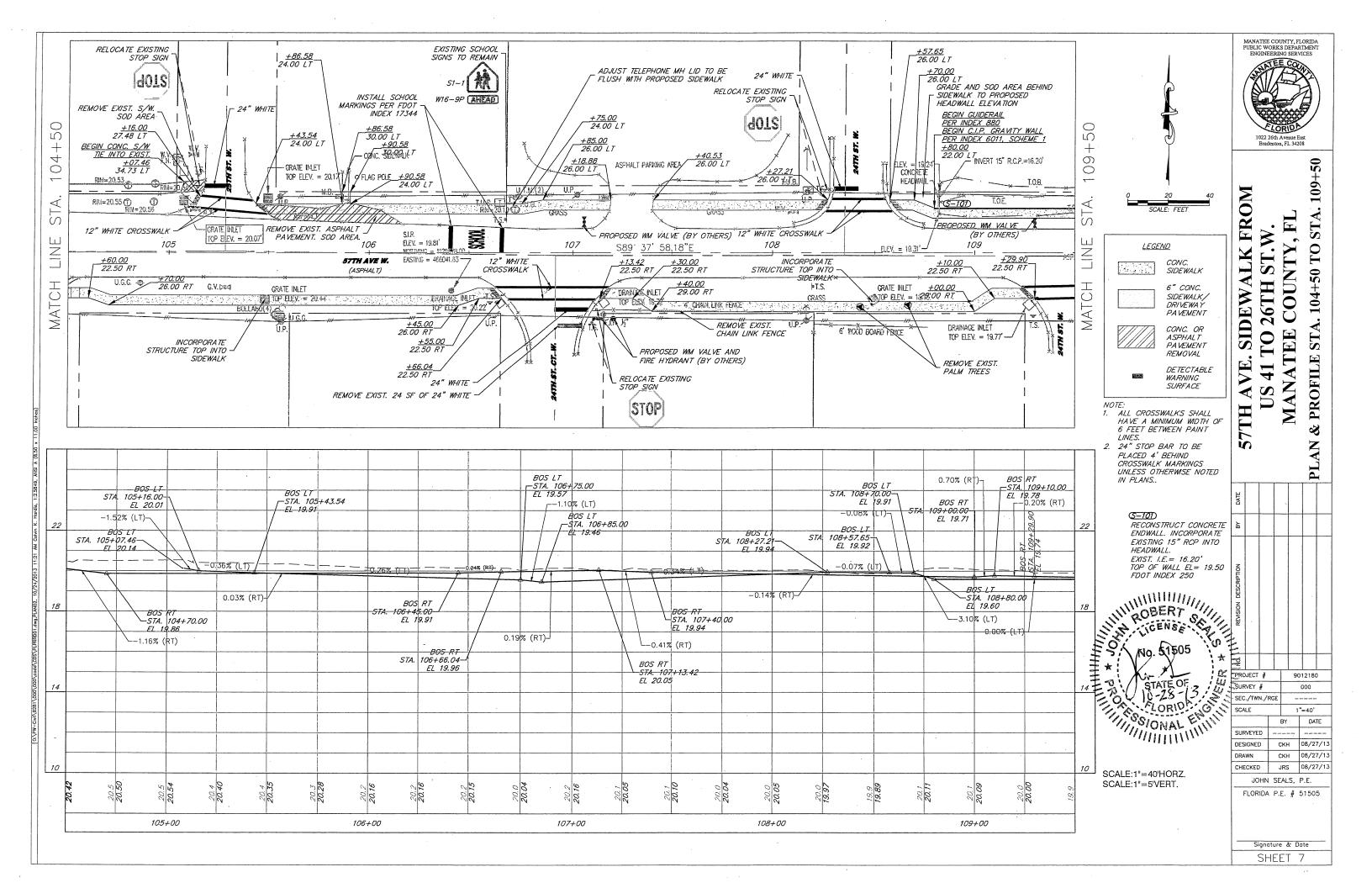
57TH AVE. SIDEWALK FROM US 41 TO 26TH ST.W. MANATEE COUNTY, FL

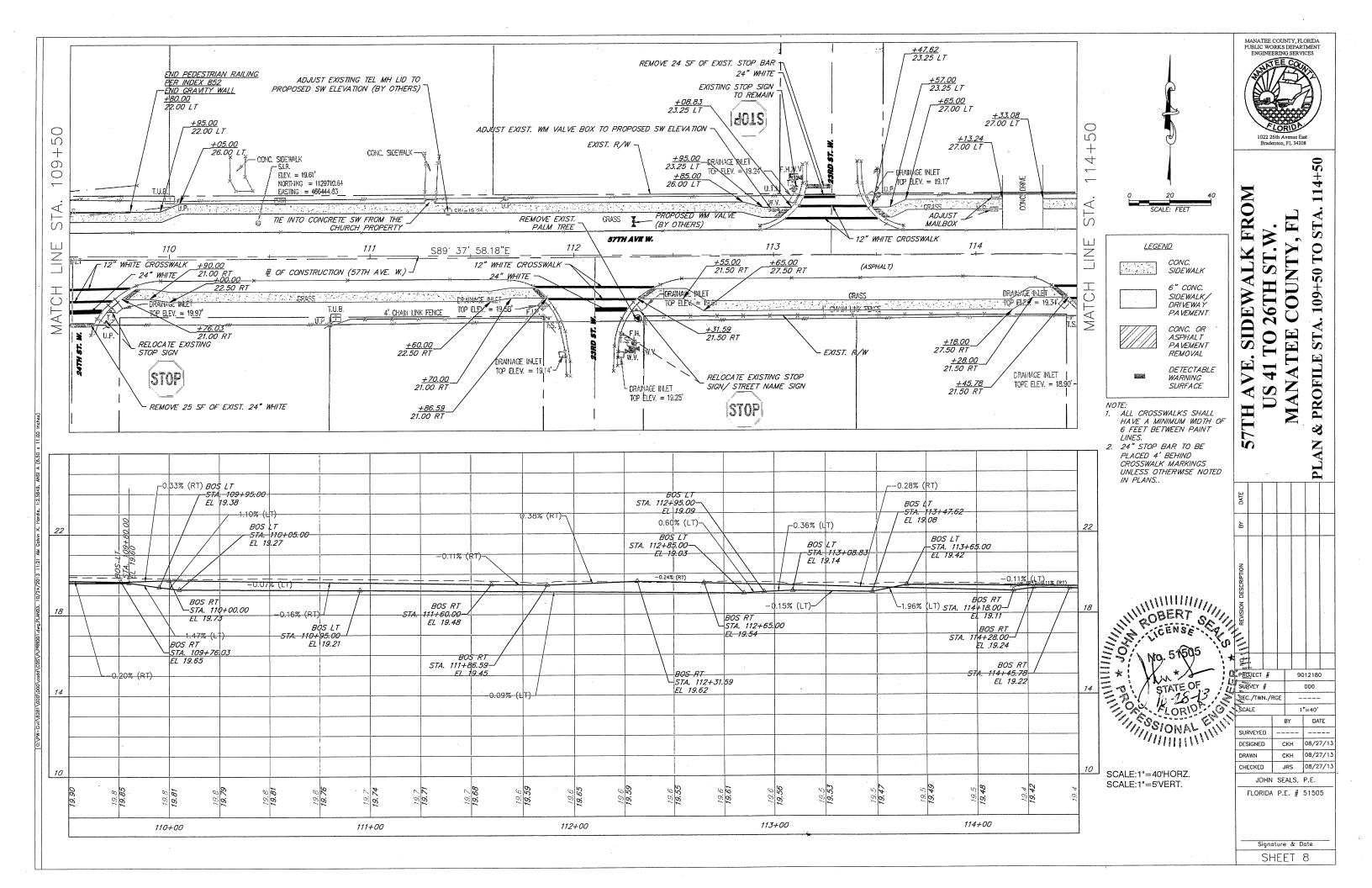
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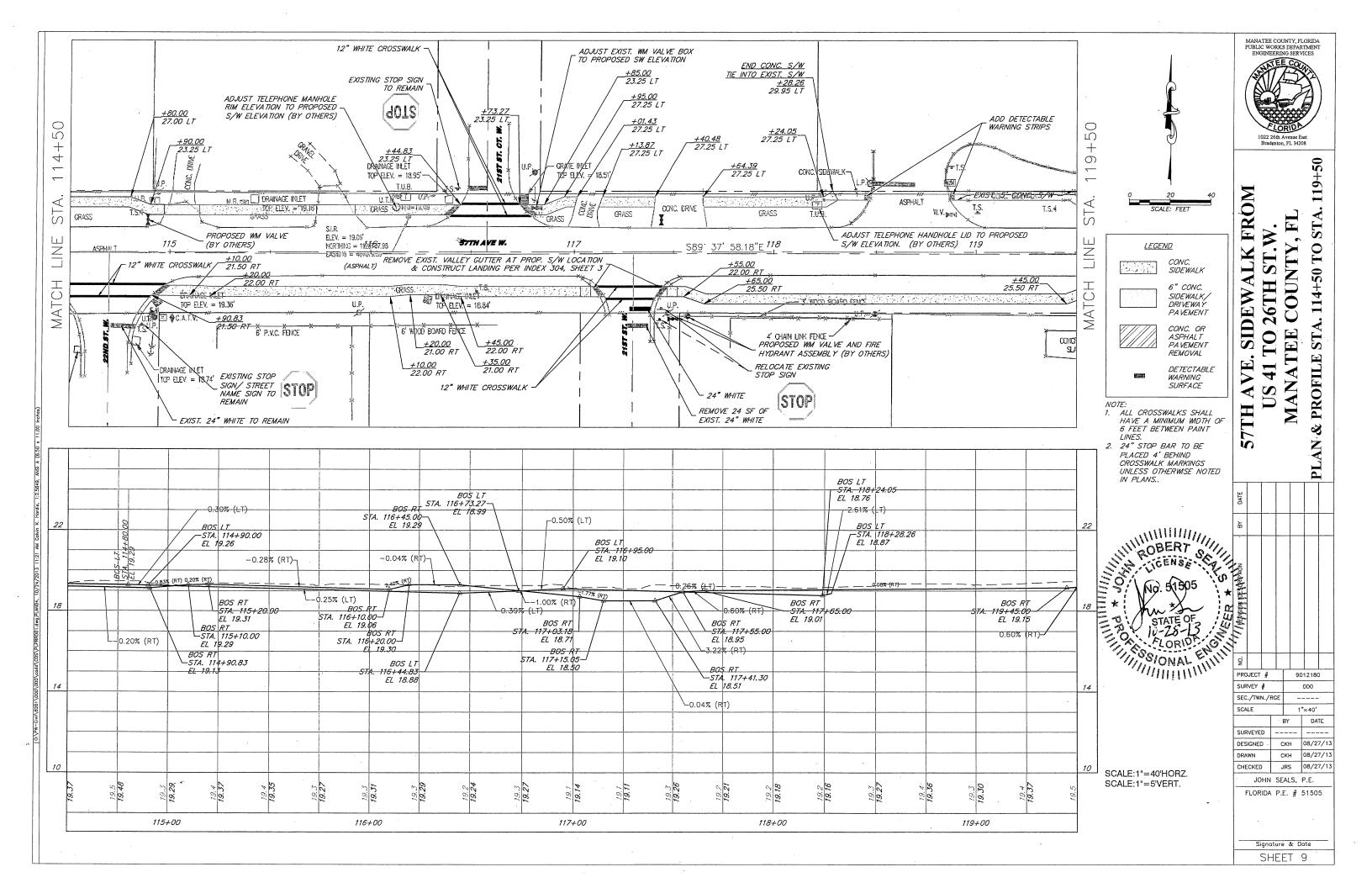
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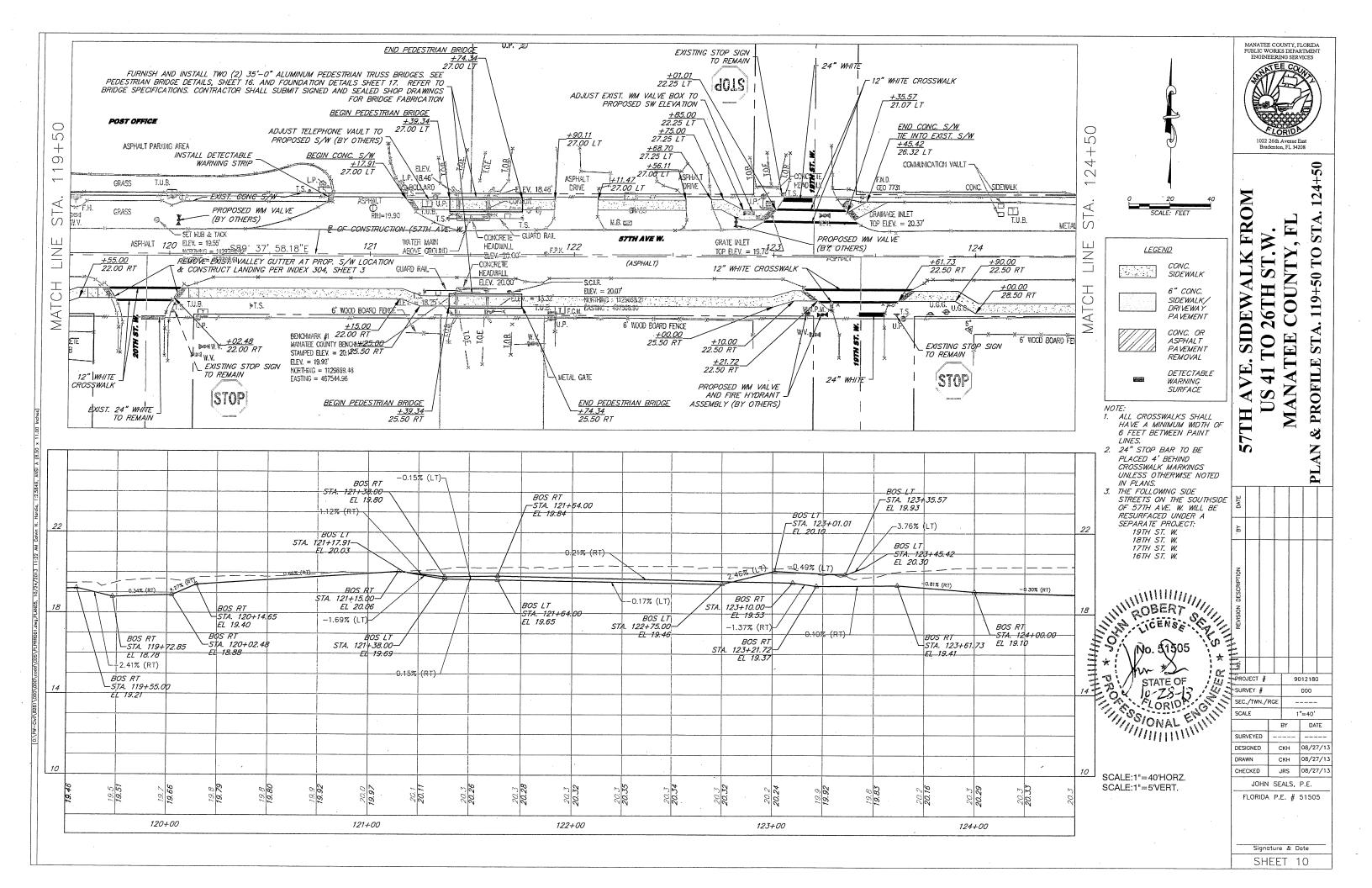
SHEET 5

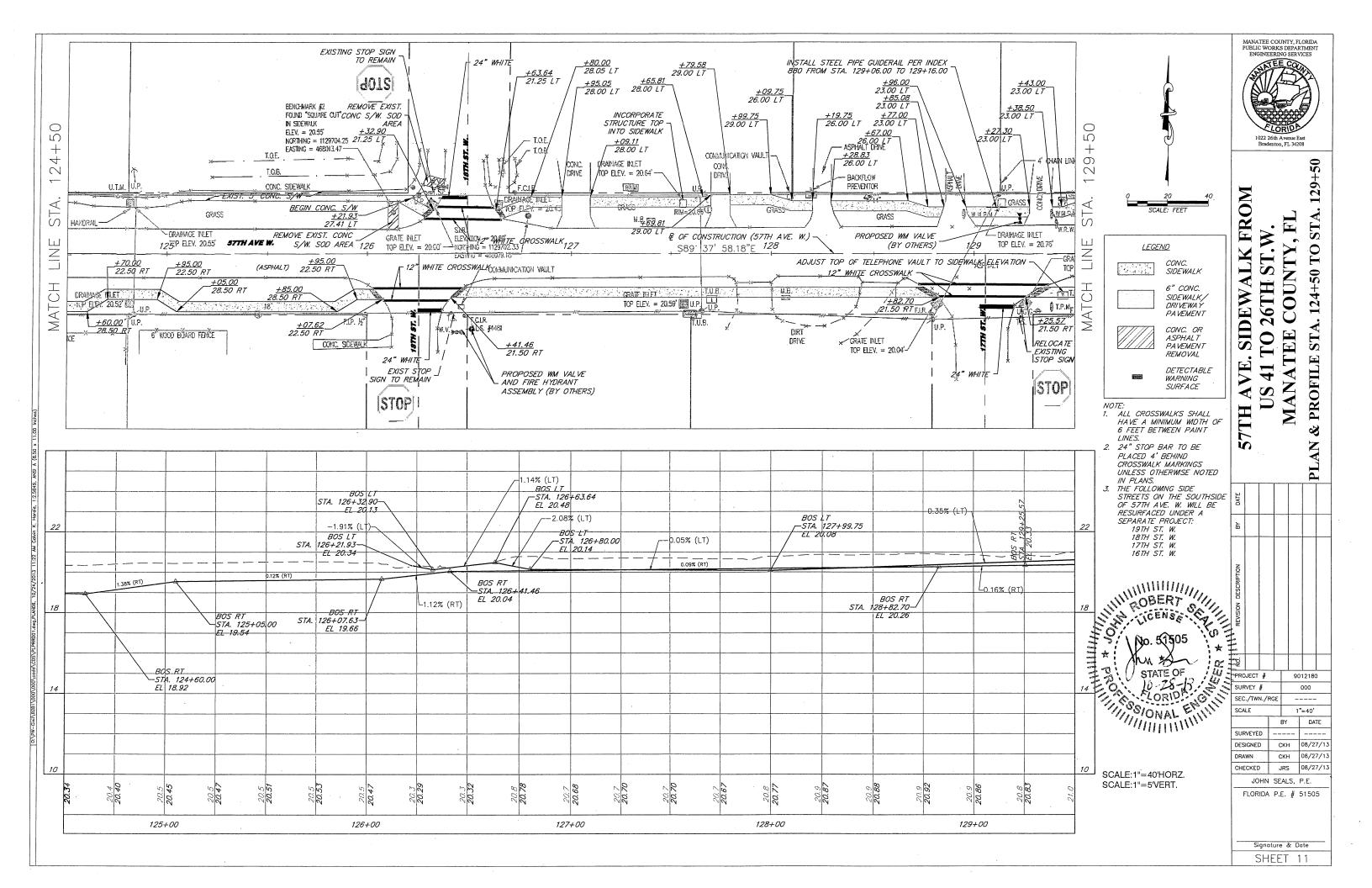


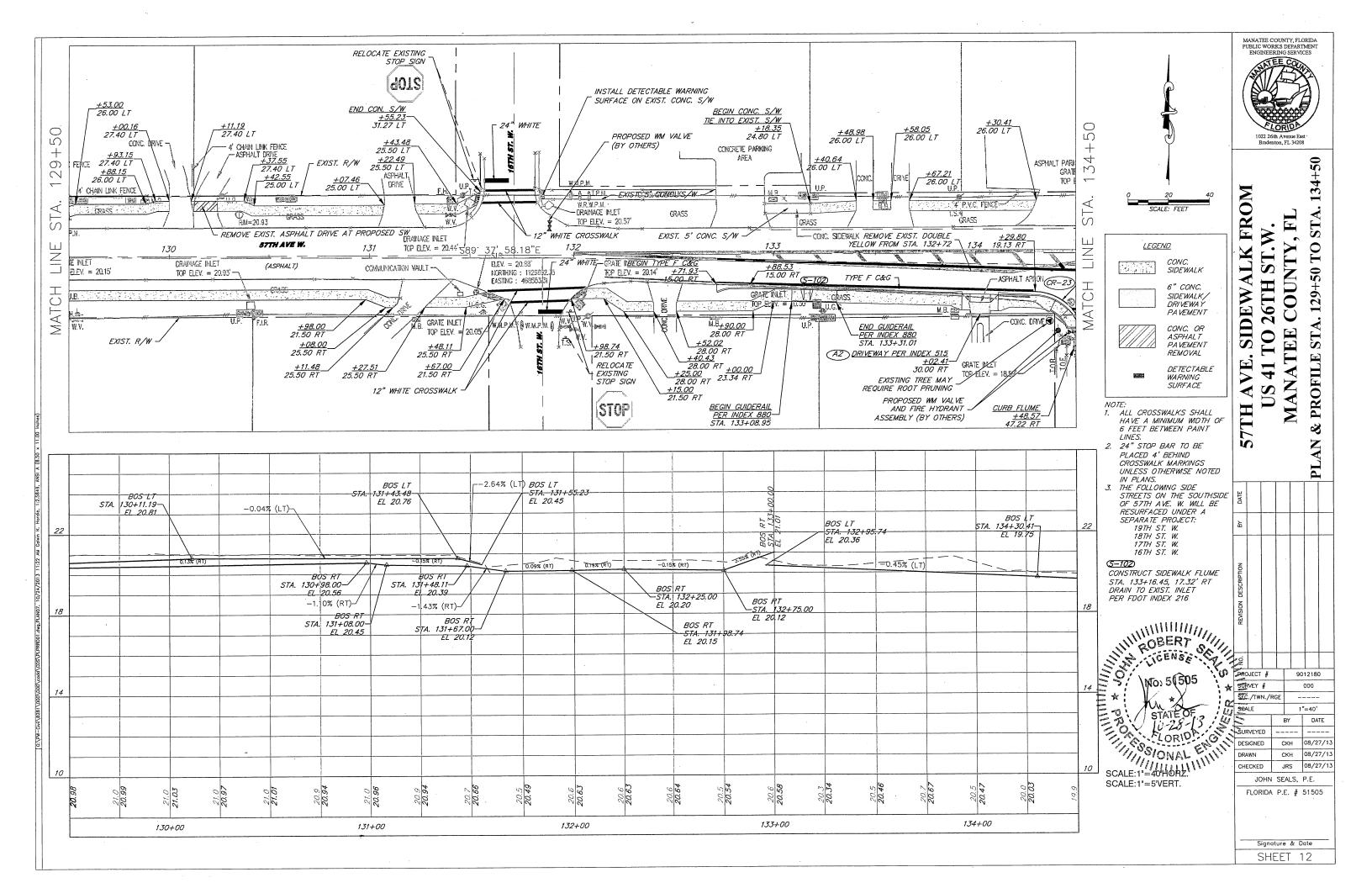


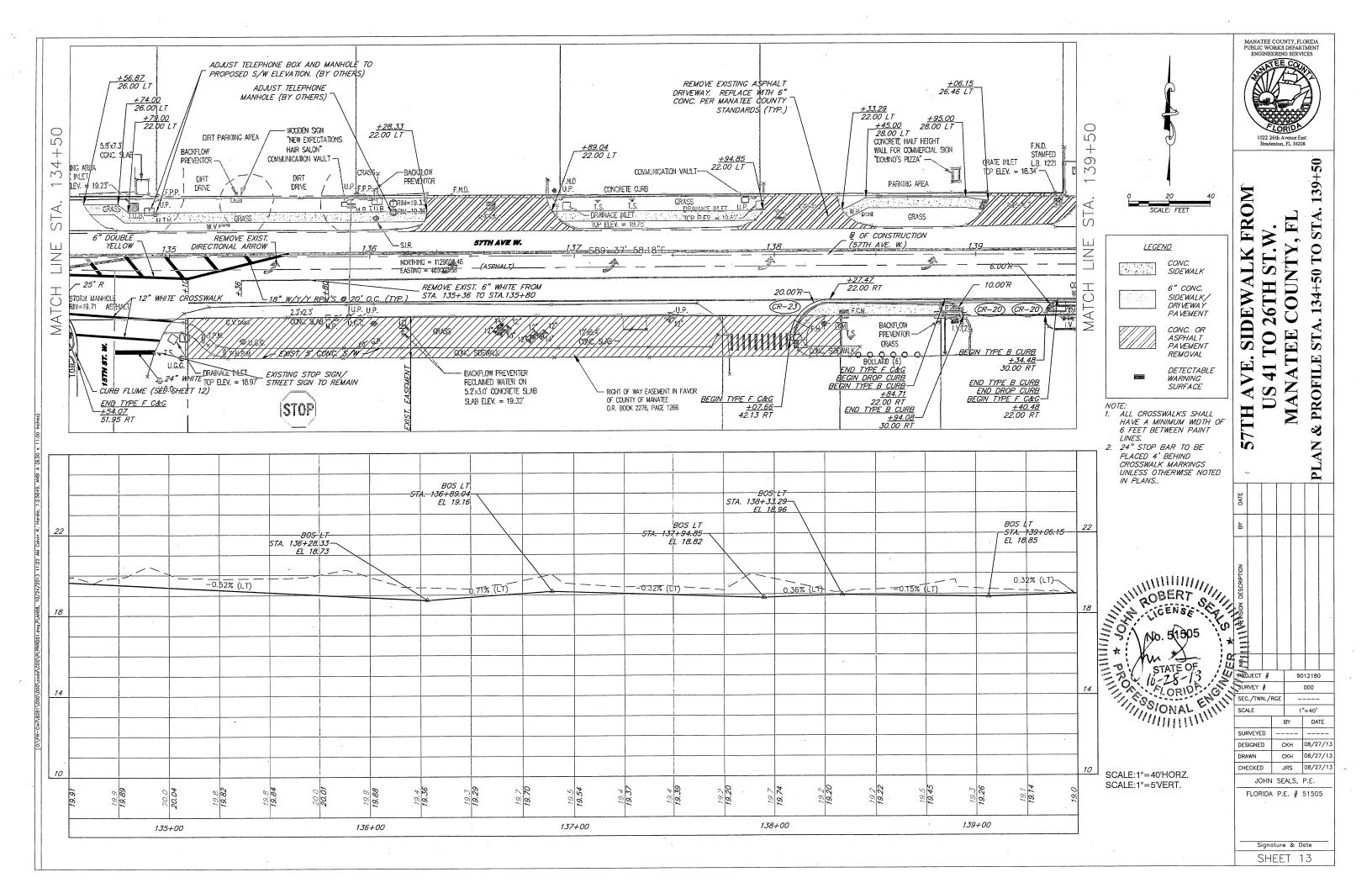


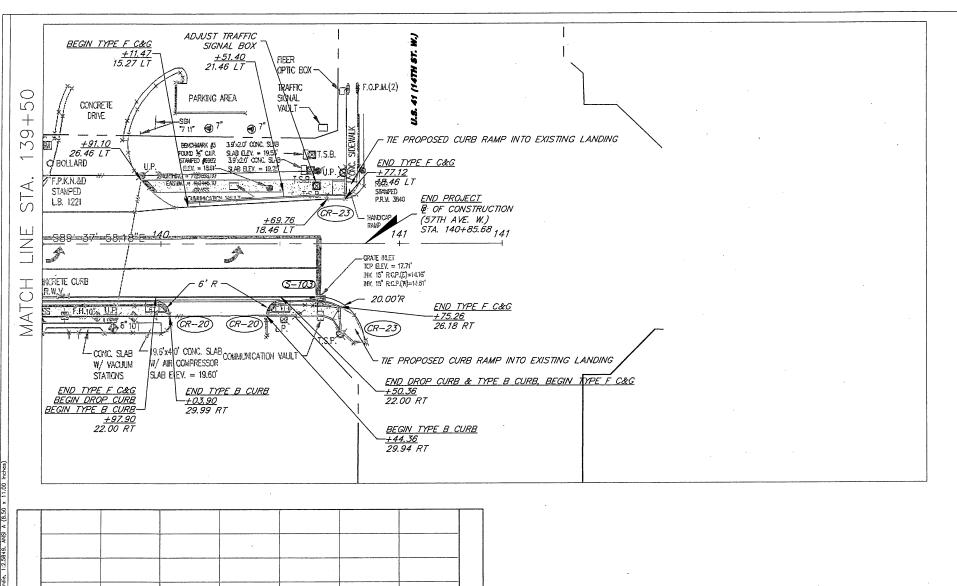


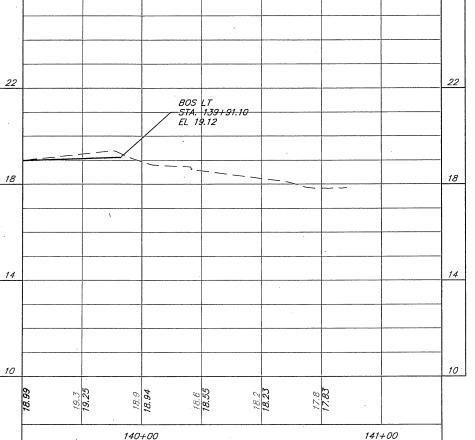












SCALE:1"=40'HORZ. SCALE:1"=5'VERT.



<u>LEGEND</u>

CONC. SIDEWALK

6" CONC. SIDEWALK/ DRIVEWAY PAVEMENT

DETECTABLE WARNING SURFACE

CONC. OR

ASPHALT

PAVEMENT

REMOVAL

NOTE:

1. THE COST OF ANY PIPE
REMOVAL AND THE COST
OF REMOVAL OF THE
EXISTING STRUCTURE
RECOURSED FOR THE
CONSTRUCTION OF
STRUCTURE S-103 SHALL
BE INCLUDED IN THE COST
OF THE PROPOSED
STRUCTURE S-103.

S-103

REMOVE EXIST. GRATE INLET AND STRUCTURE. INSTALL TYPE 9 CURB INLET STA. 140+64.17, 23.00' RT FDOT INDEX 200, 201, 214



139+50 TO

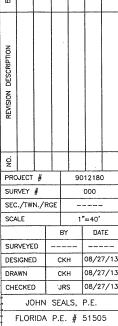
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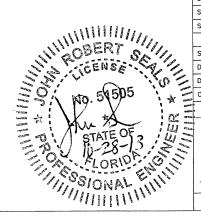
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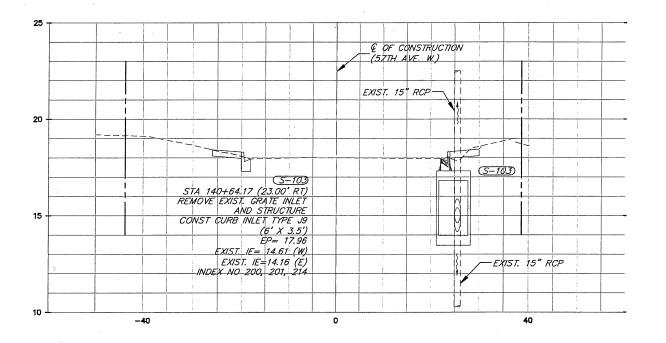
57TH AVE. SIDEWALK FROM US 41 TO 26TH ST.W. MANATEE COUNTY, FL





MANATEE COUNTY, FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

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140+64.17

HORIZ. 1"=20' VERT. 1"=5'

57TH AVE. SIDEWALK FROM US 41 TO 26TH ST.W. MANATEE COUNTY, FL DRAINAGE CROSS SECTION

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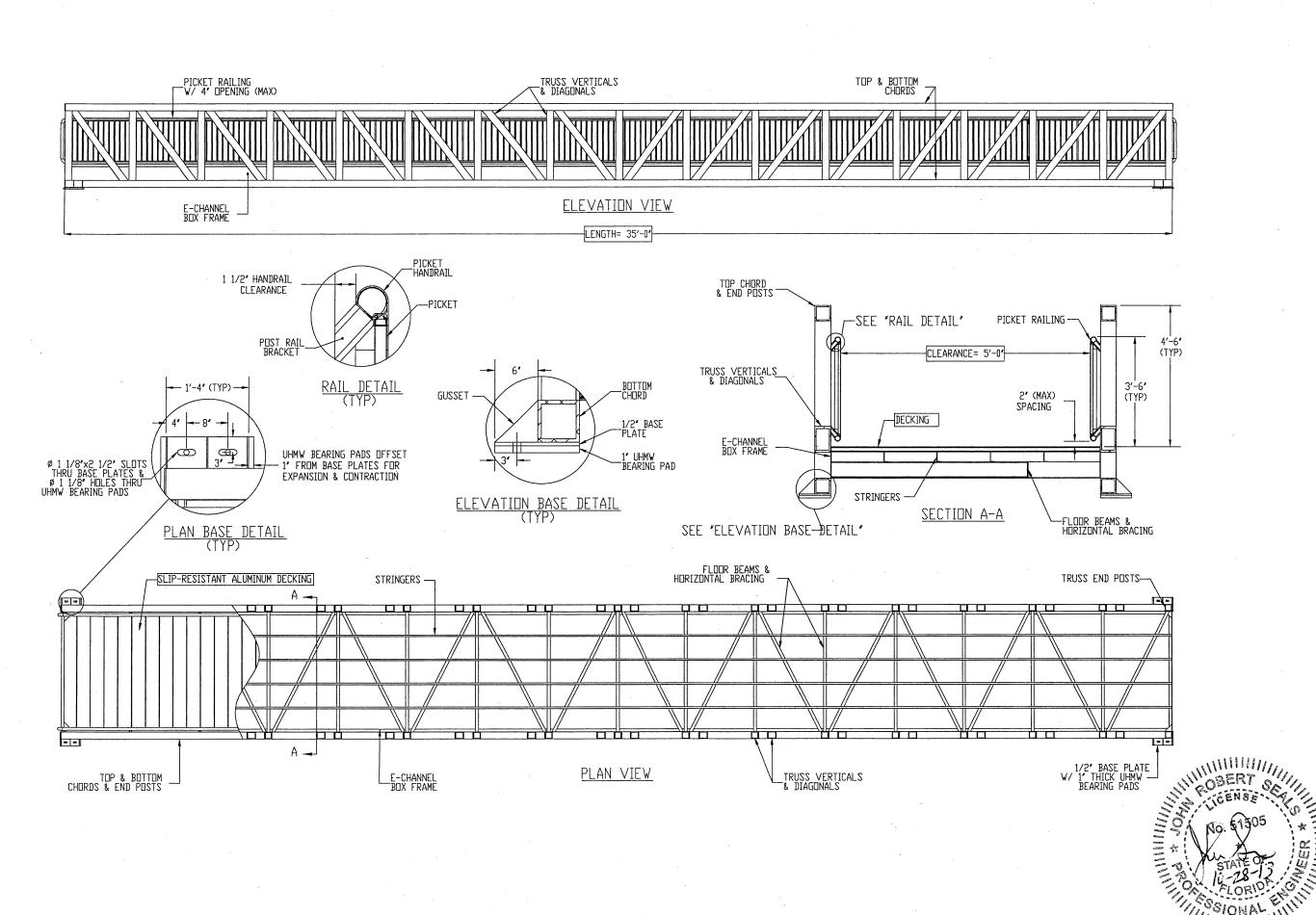
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JOHN SEALS, P.E. FLORIDA P.E. # 51505

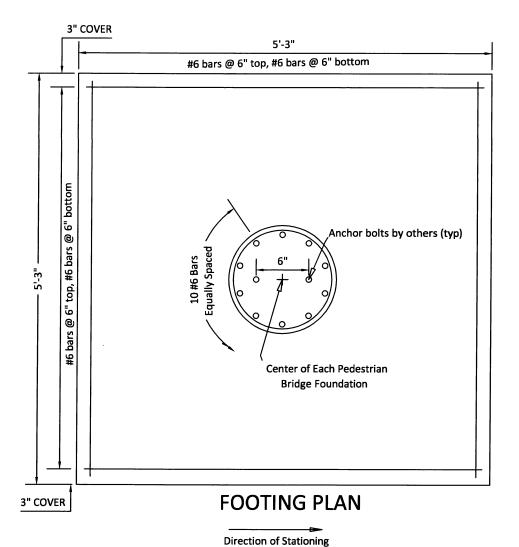


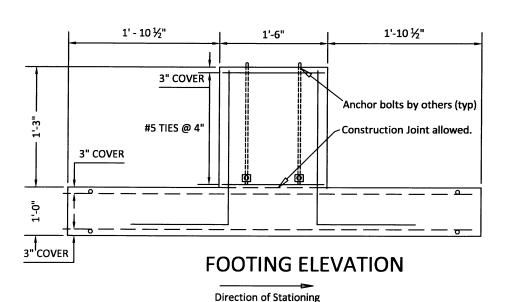
57TH AVE. SIDEWALK FROM US 41 TO 26TH ST.W.
MANATEE COUNTY, FL
PEDESTRIAN BRIDGE DETAILS

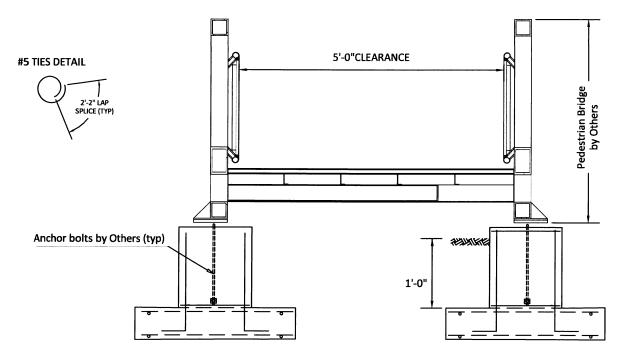
MANATEE COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

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BRIDGE END ELEVATION

Centers of each Pedestrian Bridge Foundation shall be placed at the following stations and offsets:

Northen-most Foundations 121+39.34, 27.00' Lt 121+39.34, 19.27' Lt 121+74.34, 27.00' Lt 121+74.34, 19.27' Lt

Southern-most Foundations 121+39.34, 25.5' Rt 121+39.34, 17.77' Rt 121+74.34, 25.5' Rt 121+74.34, 17.77' Rt

Notes: Fy = 60 ksi f'c = 5,500 psi Assumed soil conditions: Buoyant Unit Weight = 37 pcf Soil Friction Angle = 26° Allowable Bearing Pressure = 2 ksf

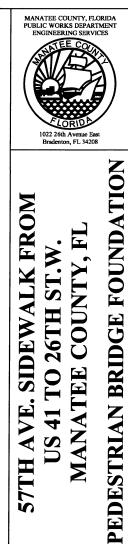
Allowable Service Loadings on Each Foundation: Vertical = 7.5 kip Horizontal = 1.5 kip

Contractor shall verify foundation locations properly and match anchor bolt locations prior to Pedestrian Bridge Fabrication and prior to construction of each foundation.

Pedestrian Bridge Shop Drawings must be submitted to the following and approved prior to fabrication of any and all bridge and/or foundation component(s):

Thomas E. Slaughter, Jr., P.E. MAP Engineering Company 550 N. Reo Street, Suite 300 Tampa, FL 33609

Thomas E. Slaughter, Jr., P.E. #38833 MAP Engineering Company 550 N. Reo Street, Suite 300 Tampa, FL 33609 C.A. 6772



57TH AVE. SIDEWALK FROM COUNTY, FL **US 41 TO 26TH ST.W** MANATEE

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T.E. SLAUGHTER, JR., P.E.											

FLORIDA P.E. # 38833

Signature & Date

SHEET 17