







GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ANTHONY BENITEZ, P.E. AND CAN BE REACHED AT (941) 708-7450; EXT. 7333
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
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. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE NORTH AMERICAN VERTICAL DATUM 1988.
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.
7. 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 NUMBER 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-OF-WAY.
9. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 6:00 PM AND BEFORE 8:00 AM.
10. ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
11. THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
12. 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 ITEM.
13. 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. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.
NOTE: 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)
15. 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.
16. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.
17. ALL SIGNING, STRIPING AND RPM PLACEMENT WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.

SAFETY

- 18. 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.
19. THE CONTRACTOR SHALL USE SHEET PILING, 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 ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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 EROSION WITHIN ONE (1) WEEK OF INSTALLATION.

- 29. 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.
30. 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.
31. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
32. 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.
33. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.
RIGHT-OF-WAY
34. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/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 MONUMENTS, 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 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 THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
37. 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.
38. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BENCH 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.
39. 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.
40. 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 EASEMENT.

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 AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED VV, VH, AND VWH 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.
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 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.
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. EXCEPT WHERE 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.
45. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER 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 SHALL FOLLOW FPL GUIDELINES). ANY COST 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.
46. 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.
47. 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.
48. LOCKHEED MARTIN GROUNDWATER REMEDIATION PIPE IS A FDEP PERMITTED UTILITY THAT CONVEYS CONTAMINATED WATER AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION WORKING NEAR THE FACILITY. DO NOT EXPOSE THE PIPE. PRIOR TO DIGGING WITHIN 5' OF THIS FACILITY THE CONTRACTOR SHALL NOTIFY THE UTILITY. IN THE EVENT THE PIPE IS BREACHED CONTRACTOR SHALL CALL (941) 351-7959, 24HRS/7 DAYS. THE AS-BUILTS HAVE BEEN PROVIDED WITHIN.

DRAINAGE AND GRADING

- 49. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
50. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY 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 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 MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY 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

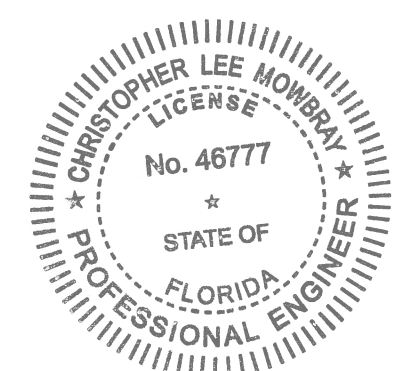
), TOP OF BANK AND ELEVATION (NWL<sub>as</sub>), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS.

- 51. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAY BALES, STAKED SILT SCREENS OR INLET 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 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.
52. 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.
53. 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 VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
54. 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.
55. 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 CONSTRUCTION.
56. 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 SOILS ENGINEER IN ACCORDANCE WITH FDOT INDEX 505.
57. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
58. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
59. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
60. 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.
61. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
62. 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, THE PROPOSED LENGTHS SHOWN ON THE PLANS 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 CONTINGENT.
63. 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.
64. 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 DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.



TALLEVAEST ROAD SIDEWALK FROM 15TH ST. E. TO POST OFFICE GENERAL NOTES & LEGEND

Table with columns: REVISION, NO., PROJECT #, SURVEY #, SEC./TWN./RGE, SCALE, BY, DATE, SURVEYED, DESIGNED, DRAWN, CHECKED, and Signature & Date. Includes project details and a signature block for Chris L. Mowbray, P.E.



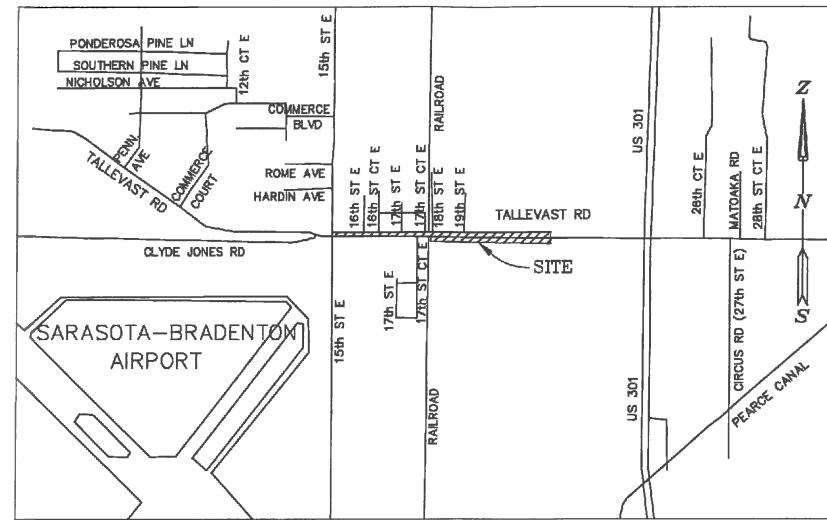
15:10:00 Engineering - Shore Highway - Engineering - Sidewalk - Tallevast - Plan - Set.dwg - 3 - Date: 10/19/2015 11:44 AM - User: Thom Forrester - 1:1 - ANSI Full - Sheet B (17.00 x 11.00 inches)







SPECIFIC PURPOSE SURVEY  
OF  
PROPOSED SIDEWALK TALLEVAST ROAD  
LOCATED IN  
SECTIONS 30 & 31, TOWNSHIP 35 SOUTH, RANGE 18 EAST  
MANATEE COUNTY, FLORIDA  
FOR: MANATEE COUNTY



LOCATION MAP  
NO SCALE

LEGEND

EXISTING

●	BENCH MARK		BUSH
■	CONCRETE MONUMENT		TREE
○	IRON PIPE		OAK TREE
●	IRON ROD		PALM TREE
▲	HUB		PINE TREE
●	NAIL & DISK		EDGE OF VEGETATION
○	ELEVATION		CHAIN LINK FENCE
①	PARCEL ID NO.		WOOD FENCE
②	PARCEL ID NO.		BARBED WIRE FENCE
③	LOT NO.		FORCE MAIN
⊖	GUY WIRE		POTABLE WATER
◇	POWER POLE		RECLAIMED WATER
⊕	LIGHT POLE		SANITARY SEWER
□	MAIL BOX		STORM DRAIN
⊥	SIGN		GAS LINE
⊕	REFLECTOR		OVERHEAD_CABLE_TV
⊕	SPRINKLER		BURIED_CABLE_TV
⊕	GAS MARKER		OVERHEAD ELECTRIC
⊕	BACKFLOW PREVENTER		BURIED ELECTRIC
⊕	BLOW OFF VALVE		OVERHEAD VERIZON
⊕	FIRE HYDRANT		BURIED VERIZON
⊕	WATER VALVE		VERIZON
⊕	AIR RELEASE VALVE		BURIED UTILITY
⊕	WATER METER		OVERHEAD UTILITY
⊕	SANITARY SEWER MANHOLE		RAIL ROAD TRACKS
⊕	SANITARY SEWER CLEAN OUT		EDGE OF CONCRETE
⊕	SOIL BORING LOCATION		EDGE OF ROAD
TEL	TELEPHONE SERVICE BOX		TOP OF SLOPE
▲	FLOW DIRECTION		TOP OF BANK
■	GRATE INLET		PROPERTY LINE
■	MITERED END SECTION		RIGHT OF WAY

ABBREVIATIONS

R/W	RIGHT OF WAY
CONC	CONCRETE
ASPH	ASPHALT
DRWY	DRIVEWAY
SWK	SIDEWALK
EP	EDGE OF PAVEMENT
BOC	BACK OF CURB

PROPOSED

	MAIN
	SERVICE LINE
	PROPOSED EASEMENT
	FIRE HYDRANT
	VALVE
	SANITARY SEWER MANHOLE
	BLOW OFF ASSEMBLY
	REDUCER
	TEE
	HORIZONTAL BEND
	VERTICAL BEND
	PLUG
	MASTER METER ASSEMBLY
	SERVICE LINE & METER
	DOUBLE SERVICE

I hereby certify that:

1. I am a Professional Surveyor and Mapper, registered in the State of Florida, holding Certificate No. PSM 4295 and that I am acting on behalf of ZNS Engineering, L.C., a corporation authorized to offer services of registered Surveyors and Mappers in the State of Florida, holding L.B. No. 6982.
2. This certificate is made to the Topographic Survey of the north side of Tallevast Road from U.S. Highway 301 to U.S. Post Office and south side of Tallevast Road from Railroad Right of way to U.S. Post Office. The survey was prepared for sidewalk improvements and was completed December 18, 2014.
3. I hereby certify that the survey prepared under my direct supervision is to the best of my knowledge, information and belief, a true and correct representation of the existing Improvements shown and meets the requirements of Chapter 5J-17, Florida Administrative Code, as it pertains to Topographic Surveys.
4. The bearings shown are based on the survey baseline of Tallevast Road from Station 50+00.00 to Station 76+90.80 having a bearing of S 89° 40' 28" E and are related to Florida State Plane Coordinate System, (West Zone) NAD 83/90 and were derived using Real Time Kinematic Method and the Florida Department of Transportation Permanent Reference Network. The published values of "VOLUSIA" (PID BBCJ51) and "TEXAS" (PID BBCMB1). Were used to validate the project coordinates.
5. Elevations shown are based on North American Vertical Datum 1988. The Benchmarks these elevations are derived from are:
  - National Geodetic Survey Benchmark "C 256" (PID AGS054), Elevation = 24.83'
  - National Geodetic Survey Benchmark "C 700" (PID DL1774), Elevation = 22.93'
6. Improvements such as, but not limited to, landscape features and subsurface improvements have not been located except as shown. The location of all subsurface improvements (utilities) should be verified in the field prior to any excavation.
7. No ownerships of record reflecting easements, rights of way, and/or ownership are known by, or were furnished to this surveyor, except as shown hereon.
8. Monuments at property corners depicted were not recovered or set, unless noted.
9. Parcel information shown hereon was gathered from the Manatee County Geographic Information System Information web site.
10. This survey does not warrant title, zoning easements or ownership.

Date: December 24, 2014

James N. Gatch, Jr. PSM  
Professional Surveyor and Mapper  
Florida License No. 4295

NOTE: THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

CERTIFICATE OF SURVEYOR

I, THE UNDERSIGNED PROFESSIONAL SURVEYOR & MAPPER, HEREBY CERTIFY THAT THIS RECORD OF LAND SURVEY WAS PREPARED UNDER MY DIRECT SUPERVISION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF IS A TRUE AND CORRECT REPRESENTATION OF THE LAND AS SHOWN AND DESCRIBED HEREON, AND THAT IT MEETS THE "MINIMUM TECHNICAL STANDARDS FOR SURVEYING IN THE STATE OF FLORIDA", CHAPTER 5J-17, OF THE FLORIDA ADMINISTRATIVE CODE.

FLORIDA CERTIFICATE No. LS 4295  
DATE OF CERTIFICATION 12/24/14  
DATE OF FIELD SURVEY 12/18/14

BY:   
JAMES N. GATCH, JR., P.S.M.

REVISION	BY	DATE

SHEET 5A

K:\Plot Files\Projects\Manatee County\Tallevast Rd Sidewalk\N-Tallevast-SW-layout1.plt



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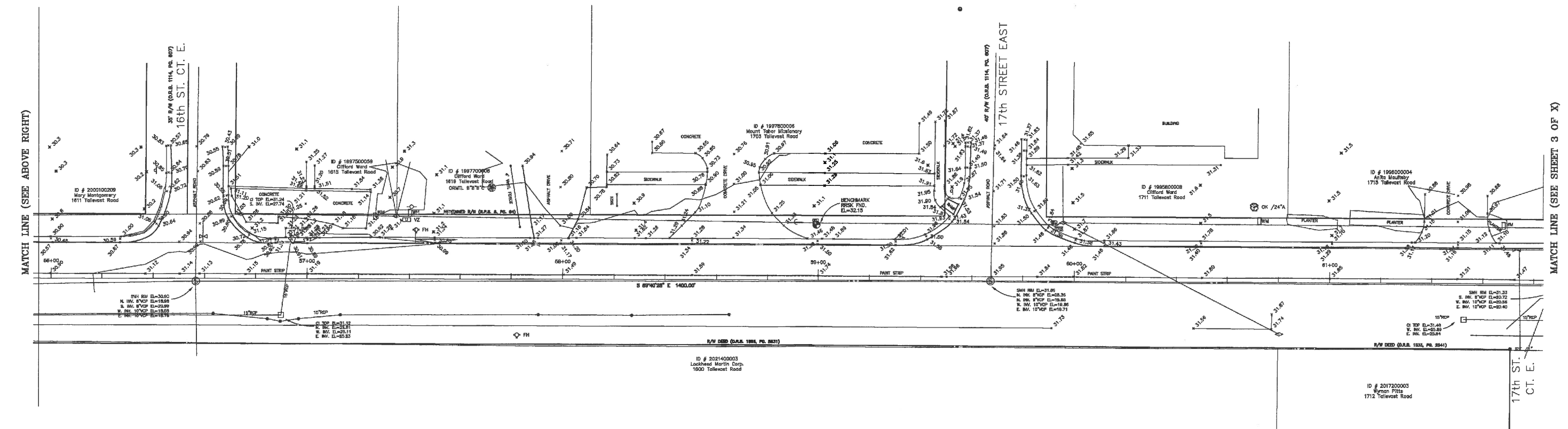
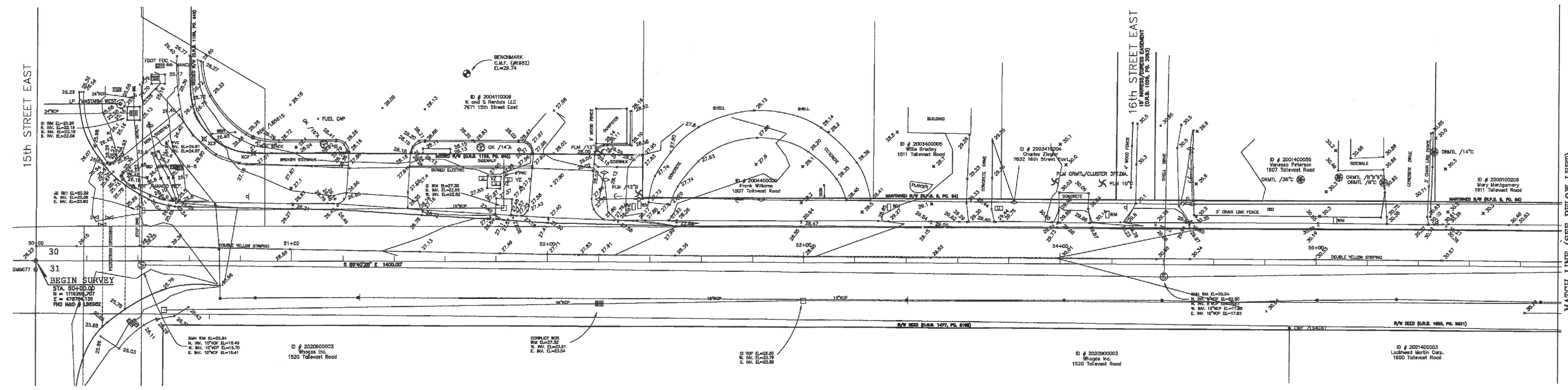
LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS

301 8th AVENUE, DRIVE EAST BRADENTON, FL 34208  
E-MAIL: ZNS@ZNSENG.COM | TELEPHONE (941) 748-8080 | FAX (941) 748-3314

DRAWING: T:\Manatee\Tallevast Rd Sidewalk\N-Tallevast-SW.dwg (LAYOUT) DATE: DECEMBER 2014. SCALE: NO SCALE.  
DRAWN: bernie JOB NO. 00-43635 FIELD BOOK: 867 PAGE: 9,20-22,44-48 SHEET: 1 OF 5



S:\V\02\_Engineering\_Sharon Highway Engineering\Drawings\Tollevast Rd Sidewalk\Tollevast Rd Sidewalk.dwg SURVEY-10/9/2015 8:35 AM Thom Forrester, L1, ANSI full bleed B (17.00 x 11.00 inches)



**SPECIFIC PURPOSE SURVEY**  
 OF  
**PROPOSED SIDEWALK TALLEVAST ROAD**  
 LOCATED IN  
**SECTIONS 30 & 31, TOWNSHIP 35 SOUTH, RANGE 18 EAST**  
**MANATEE COUNTY, FLORIDA**  
 FOR: MANATEE COUNTY

SHEET 5B

K:\Plot Files\Projects\Manatee County\Tollevast Rd Sidewalk\N-Tollevast-SW-layout2.plt

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10000000  
 POST OFFICE BOX 9448 BRADENTON, FL 34206 | 201 86 AVENUE DRIVE EAST BRADENTON, FL 34208

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REVISION	BY	DATE

DRAWING: T:\Manatee\Tollevast Rd Sidewalk\N-Tollevast-SW.dwg(LAYOUT2) DATE: DECEMBER 2014 SCALE: 1" = 20'  
 DRAWN: bernie JOB NO. 00-43835 FIELD BOOK: 687 PAGE: 9,20-22,44-48 SHEET: 2 OF 5

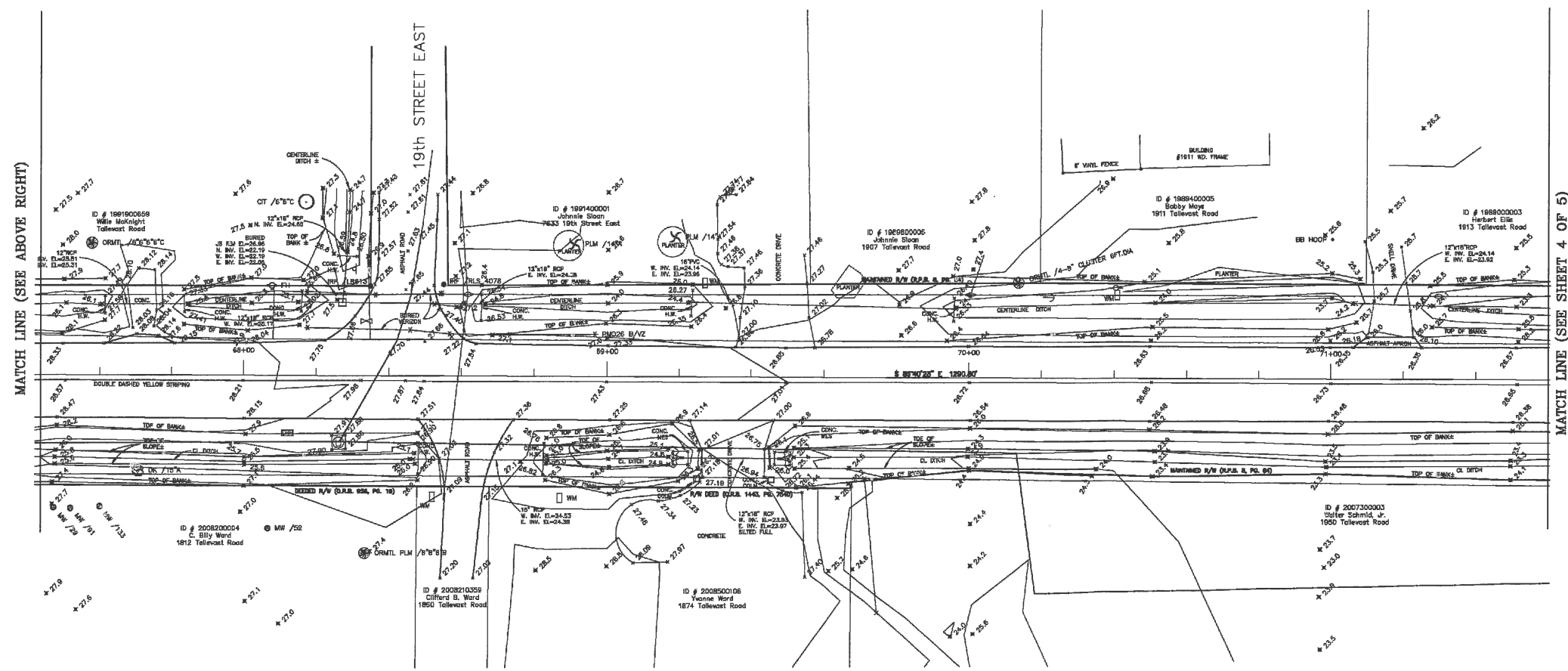


S:\W\Engineering\Share Highway Engineering\Sidewalks\Tallevast Rd\DWG\Tallevast Rd Sidewalk Survey\_10/9/2015 8:35 AM Thom Forester\_131\_ANSI.dwg based B (17.00 x 11.00 inches)

MATCH LINE (SEE SHEET 2 OF 5)

17th ST. CT. E.

MATCH LINE (SEE BELOW LEFT)



MATCH LINE (SEE ABOVE RIGHT)

19th STREET EAST

MATCH LINE (SEE SHEET 4 OF 5)



SCALE 1" = 20'

SPECIFIC PURPOSE SURVEY  
 OF  
 PROPOSED SIDEWALK TALLEVAST ROAD  
 LOCATED IN  
 SECTIONS 30 & 31, TOWNSHIP 35 SOUTH, RANGE 18 EAST  
 MANATEE COUNTY, FLORIDA

FOR: MANATEE COUNTY SHEET 5C

K:\Plot Files\Projects\Manatee County\Tallevast Rd Sidewalk\N-Tallevast-SW-layout3.plt

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REVISION	BY	DATE

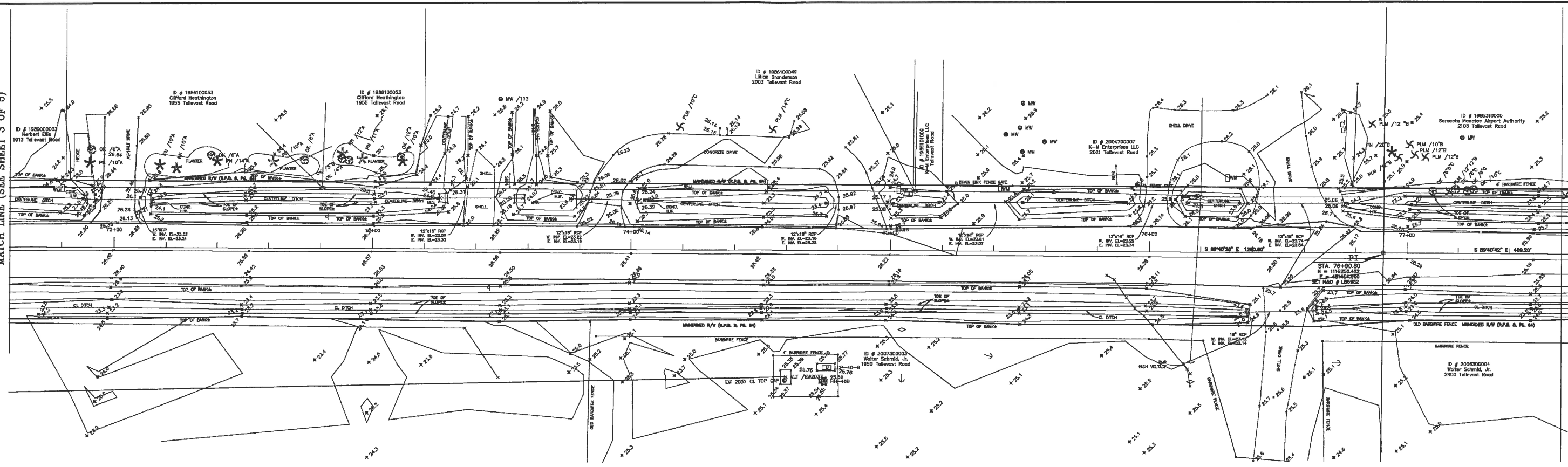
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 DRAWN: bernie JOB NO. 00-43835 FIELD BOOK: 667 PAGE: 9,20-22,44-48 SHEET: 3 OF 5



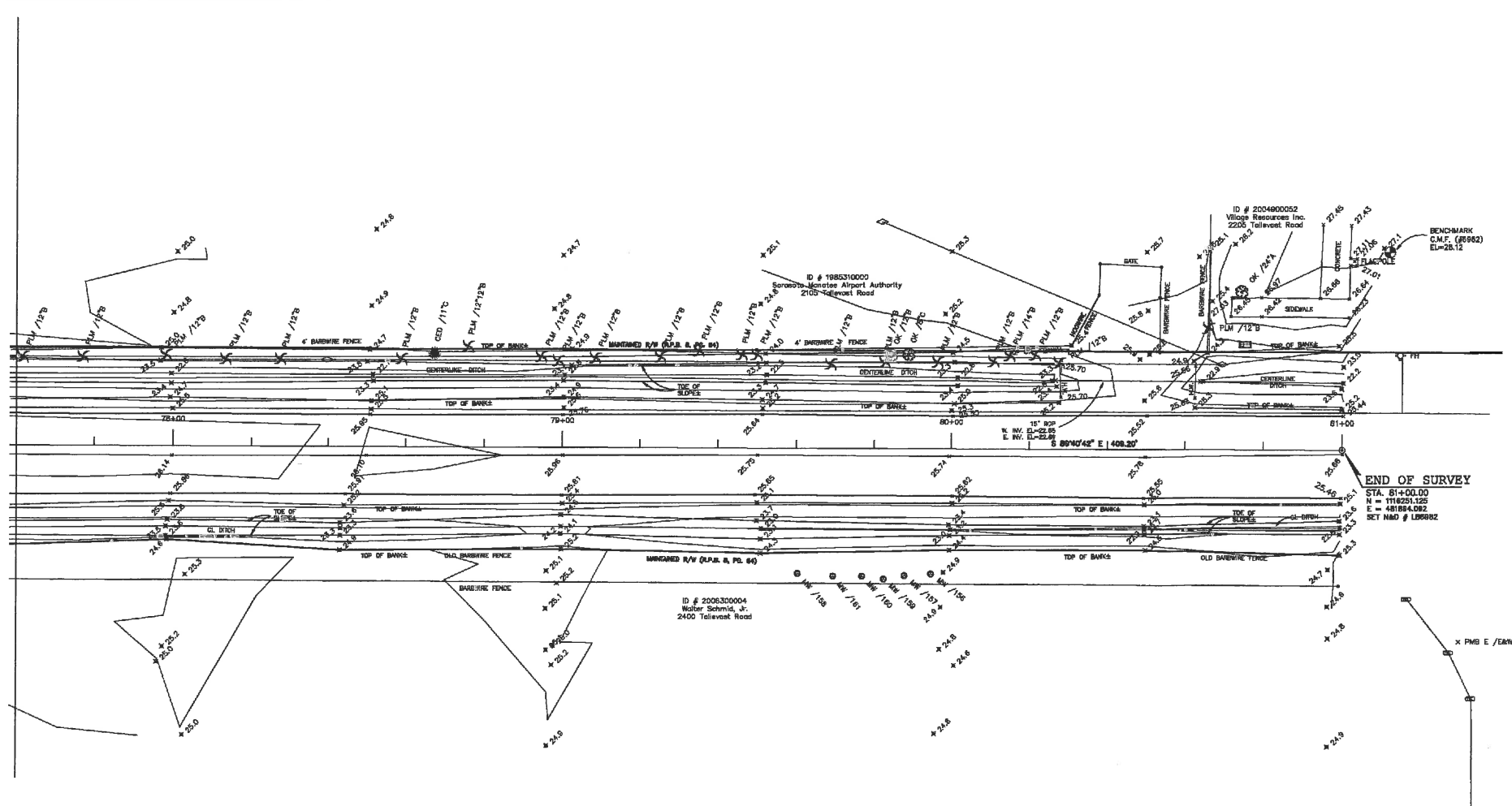
S:\V\W\Engineering\_Shore\Highway\_Engineering\_Sidewalks\Tallevast Rd\DWG\Tallevast\_Rd\_Sidewalk.dwg SURVEY 12/9/2013 8:56 AM Thom Forrester 1:1, ANSI Full bleed B (17.00 x 11.00 inches)

MATCH LINE (SEE SHEET 3 OF 5)

MATCH LINE (SEE BELOW LEFT)



MATCH LINE (SEE ABOVE RIGHT)



**SPECIFIC PURPOSE SURVEY**  
 OF  
**PROPOSED SIDEWALK TALLEVAST ROAD**  
 LOCATED IN  
 SECTIONS 30 & 31, TOWNSHIP 35 SOUTH, RANGE 18 EAST  
 MANATEE COUNTY, FLORIDA  
 FOR: MANATEE COUNTY

SHEET 5D

K:\Plot Files\Projects\Manatee County\Tallevast Rd Sidewalk\N-Tallevast-SW-layout4.plt

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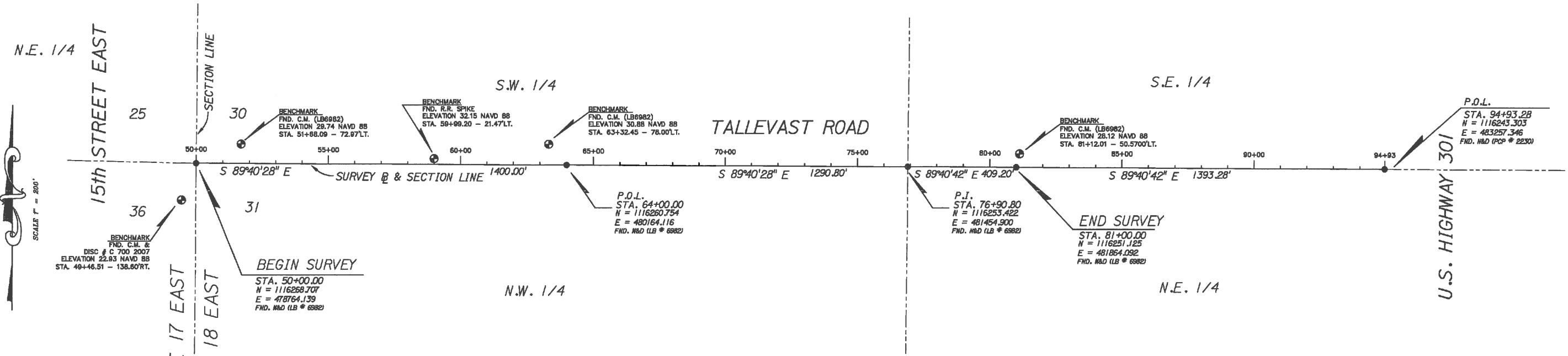
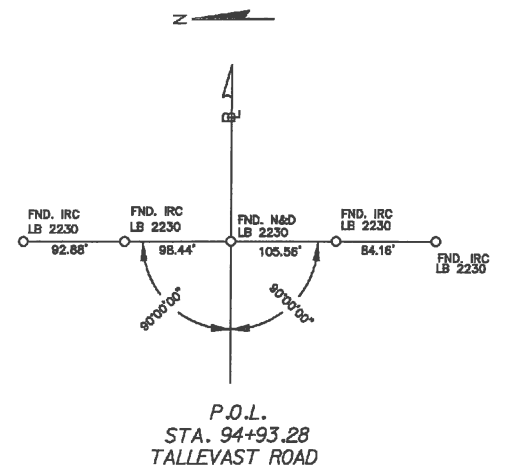
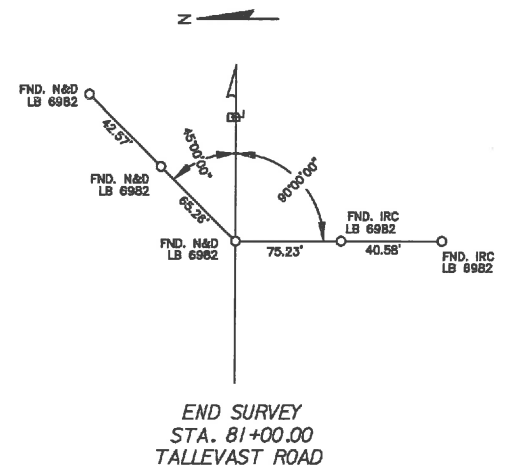
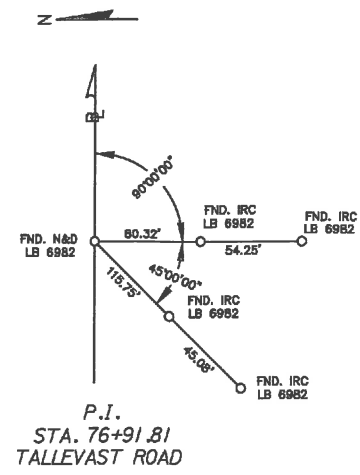
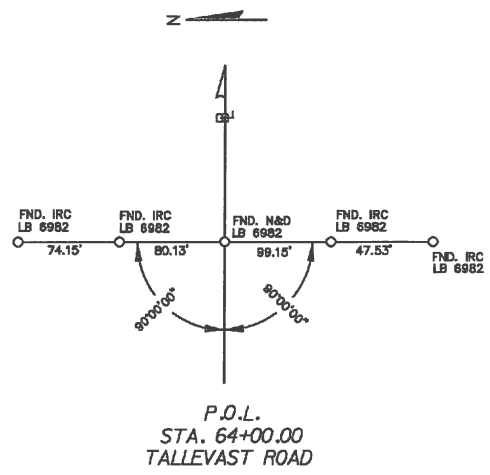
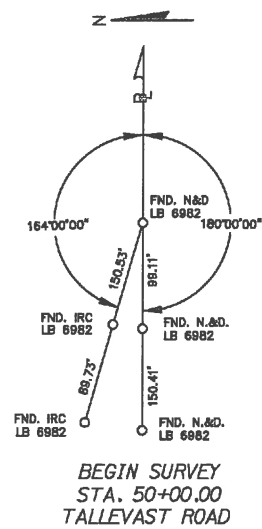
REVISION	BY	DATE



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DRAWING: T:\Manatee\Tallevast RD Sidewalk\N-Tallevast-SW.dwg(LAYOUT4) DATE: DECEMBER 2014. SCALE: 1" = 20'  
 DRAWN: bernie JOB NO. 00-43635 FIELD BOOK: 667 PAGE: 9,20-22,44-48 SHEET: 4 OF 5

S:\PVD\_Engineering\Share\Highway\Engineering\Stations\Tallevast\Tallevast.dwg, 10/27/2015, 8:56 AM, from: Forester, J.L., ANSI full bleed B (17.00 x 11.00 inches)



**LEGEND:**

•	MARKER LOCATION (DESCRIPTION AS NOTED)
IRC	IRON ROD & CAP
N&D	NAIL AND DISK
R&D	RIVET AND DISK
C.M.	CONCRETE MONUMENT
R.R.	RAIL ROAD
P.C.P.	PERMANENT CONTROL POINT
FND.	FOUND
STA.	STATION
LB	LICENSED BUSINESS
L.T.	LEFT
R.T.	RIGHT
P.O.B.	POINT ON LINE
P.I.	POINT OF INTERSECTION
§	BASELINE
⊗	BENCHMARK

- NOTES:**
- THE BEARINGS SHOWN ARE BASED ON THE SURVEY BASELINE OF TALLEVAST ROAD FROM STATION 50+00.00 TO STATION 79+90.80 HAVING A BEARING OF S 89°40'28" E AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM, (WEST ZONE) NAD 83/90 AND WERE DERIVED USING REAL TIME KINEMATIC METHOD AND THE FLORIDA DEPARTMENT OF TRANSPORTATION PERMANENT REFERENCE NETWORK. THE PUBLISHED VALUES OF "VOLLISA" (PID B8C1S1) AND "TEXAS" (PID B8C8B1), WERE USED TO VALIDATE THE PROJECT COORDINATES.
  - BEARINGS AND DISTANCES ARE FIELD MEASUREMENTS UNLESS NOTED OTHERWISE.
  - THIS SURVEY MEETS THE REQUIREMENTS OF CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE AS IT PERTAINS TO SPECIFIC PURPOSE SURVEYS FOR RIGHT OF WAY MAPPING PURPOSES.
  - THIS DRAWING IS NOT VALID WITHOUT THE ORIGINAL RAISED SEAL AND SIGNATURE OF THE FLORIDA REGISTERED SURVEYOR AND MAPPER SHOWN HEREON. AN ELECTRONIC COPY OF THIS DRAWING MUST BE VERIFIED WITH A SEALED DRAWING OF THE SAME.
  - ANY ADDITIONS OR DELETIONS TO THIS SPECIFIC PURPOSE SURVEY BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY. COPY OF THIS DRAWING MUST BE VERIFIED WITH A SEALED DRAWING OF THE SAME.
  - ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988. THE BENCHMARK ELEVATIONS ARE DERIVED FROM ARE:
    - NATIONAL GEODETIC SURVEY BENCHMARK "C 256" (PID AG5054), ELEVATION = 24.83'.
    - NATIONAL GEODETIC SURVEY BENCHMARK "C 700" (PID DL1774), ELEVATION = 22.83'.

**NOT A BOUNDARY SURVEY**  
**CERTIFIED AS TO PURPOSE OF SURVEY**  
**SPECIFIC PURPOSE SURVEY**  
 OF  
**SURVEY CONTROL LINE**  
**TALLEVAST ROAD**  
 LOCATED IN  
 SECTIONS 30 & 31, TOWNSHIP 35 SOUTH, RANGE 18 EAST  
 MANATEE COUNTY, FLORIDA

SHEET 5E

NOTE: THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

**CERTIFICATE OF SURVEYOR**

I, THE UNDERSIGNED PROFESSIONAL SURVEYOR & MAPPER, HEREBY CERTIFY THAT THIS RECORD OF LAND SURVEY WAS PREPARED UNDER MY DIRECT SUPERVISION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF IS A TRUE AND CORRECT REPRESENTATION OF THE LAND AS SHOWN AND DESCRIBED HEREON, AND THAT IT MEETS THE "MINIMUM TECHNICAL STANDARDS FOR SURVEYING IN THE STATE OF FLORIDA", CHAPTER 5J-17, OF THE FLORIDA ADMINISTRATIVE CODE.

FLORIDA CERTIFICATE No. LS 4385  
 DATE OF CERTIFICATION 01/13/2015  
 DATE OF FIELD SURVEY 01/05/2015

BY: *J. N. Gatch*  
 JAMES N. GATCH, J.C., P.S.M.

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 ENGINEERS | PLANNERS | SURVEYORS  
 LANDSCAPE ARCHITECTS | ENVIRONMENTAL CONSULTANTS

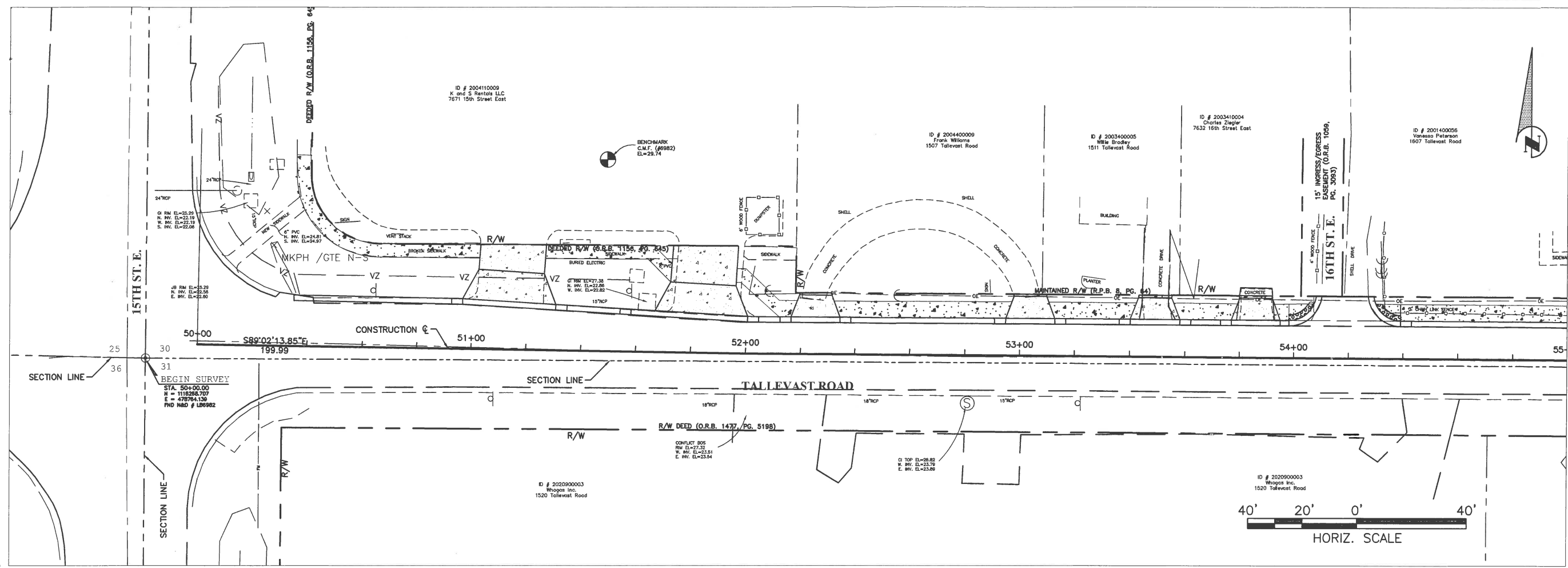
POST OFFICE BOX 948 BRADENTON, FL 34206 | 201 9th AVENUE DRIVE EAST BRADENTON, FL 34208  
 E-MAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE (941) 748-8000 | FAX (941) 748-3314

DRAWING: T:\Manatee\Tallevast Rd Sidewalk\TallevastSW-Blne.dwg DATE JANUARY 2015 SCALE 1" = 200'  
 DRAWN BY: bernie JOB NO. 00-43835 FIELD BOOK PAGE SHEET 1 OF 1

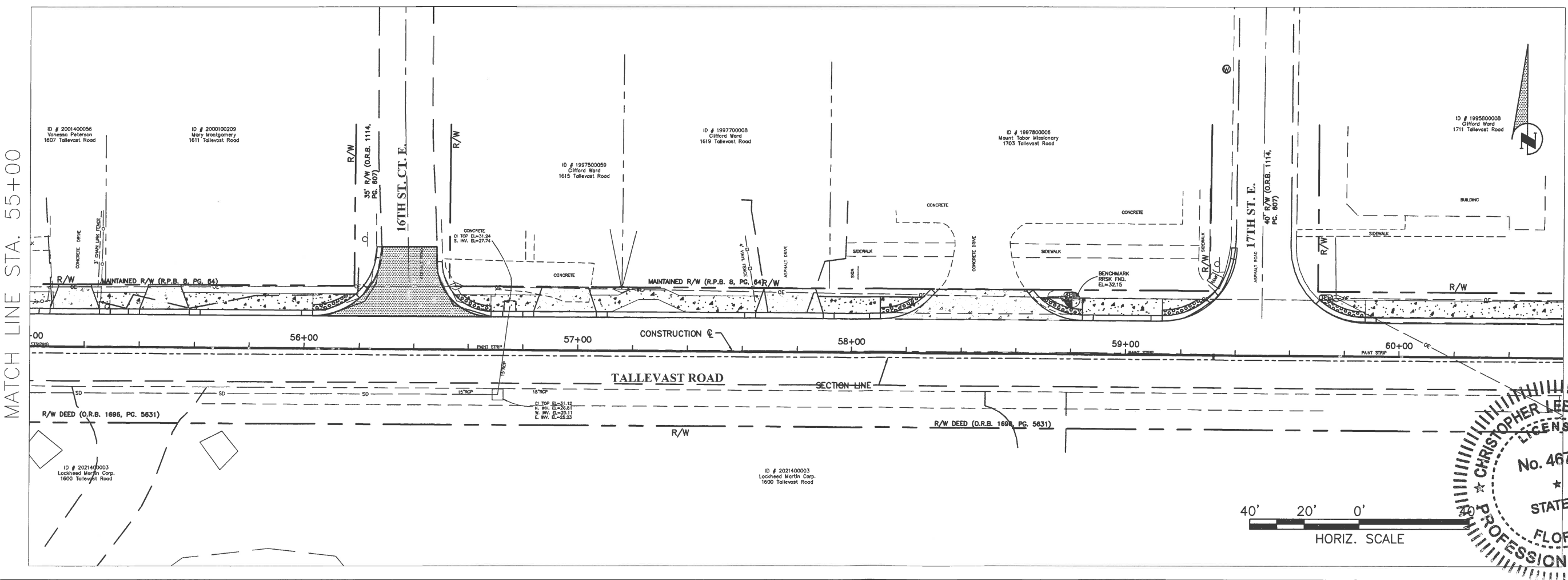
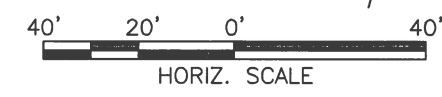
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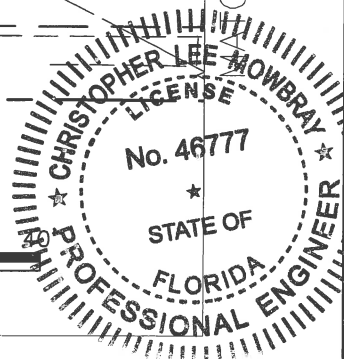
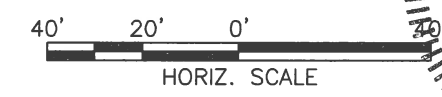
**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
HORIZONTAL & VERTICAL CONTROL  
STA. 60+60 TO STA. 71+80**



MATCH LINE STA. 55+00



MATCH LINE STA. 60+60



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

*Chris L. Mowbray*  
10/12/15

Signature & Date

I:\V\DWG\Engineering\Share\Highway\Engineering\Sidewalks\Tallevast\_Road\DWG\Tallevast\_Road\_Sidewalks.dwg, 10/9/2015 10:55 AM Thom Forrester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

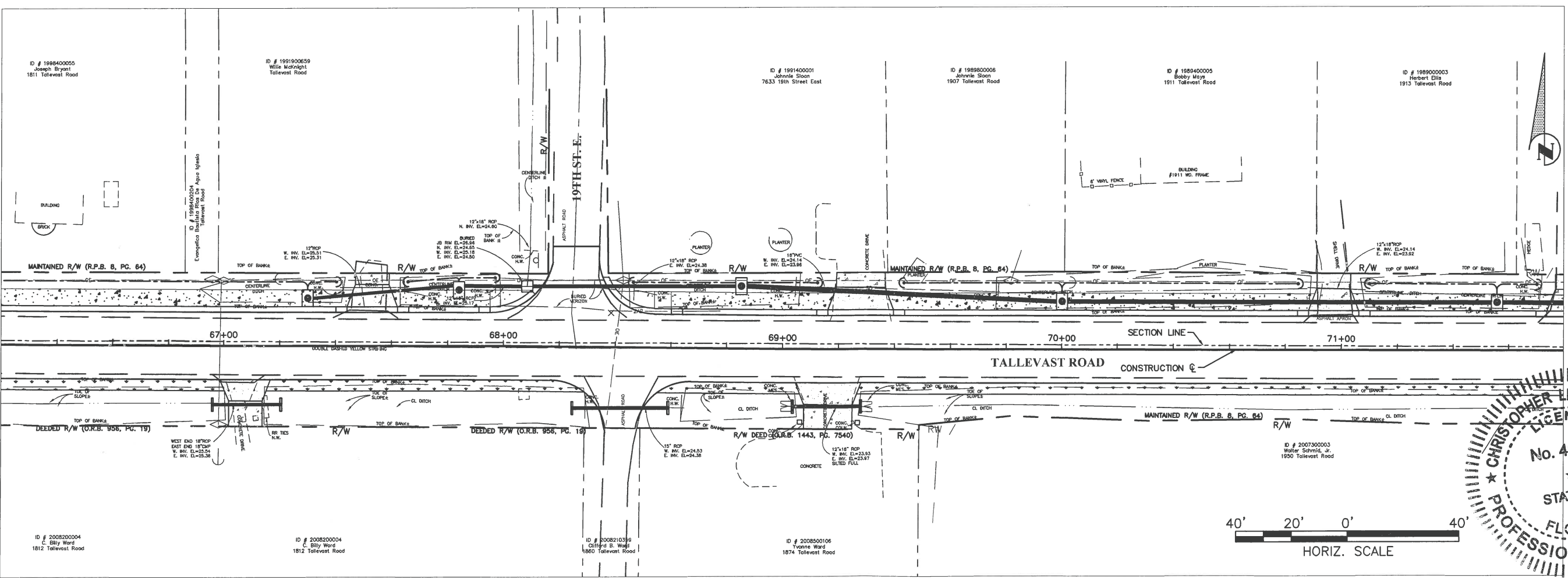
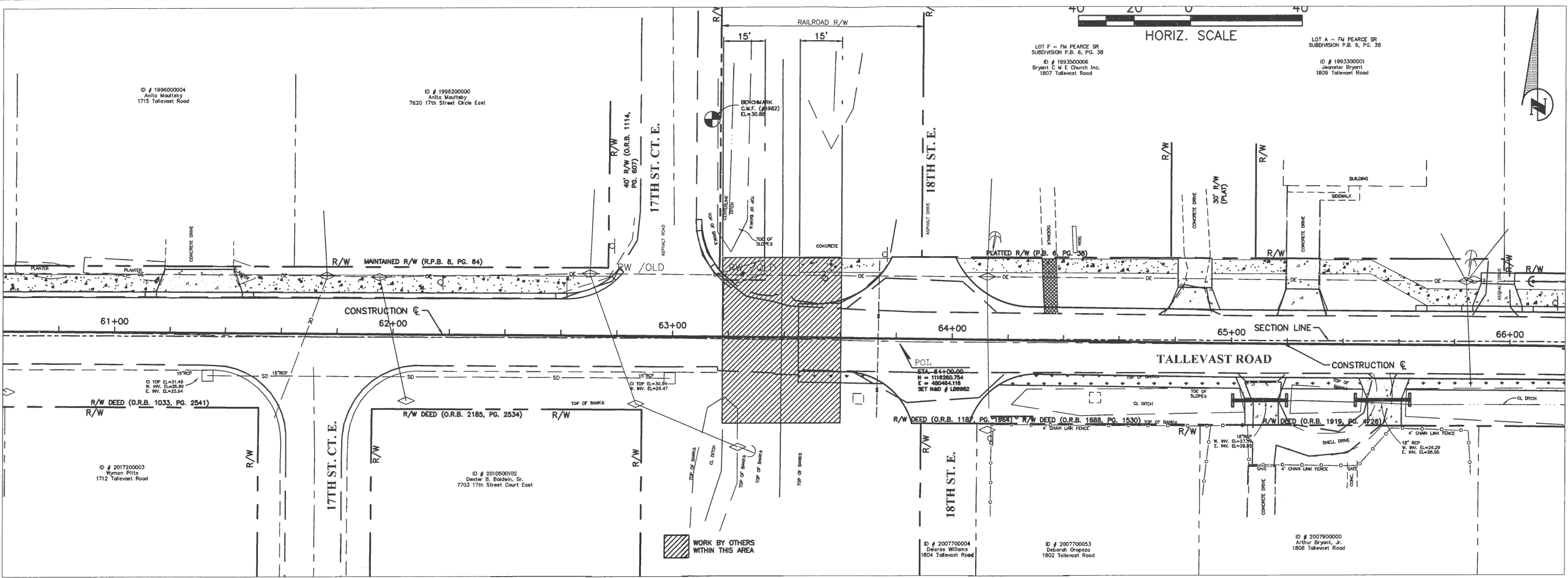
**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
HORIZONTAL & VERTICAL CONTROL  
STA. 60+60 TO STA. 71+80**

MATCH LINE STA. 60+60

MATCH LINE STA. 66+20

MATCH LINE STA. 66+20

MATCH LINE STA. 71+80

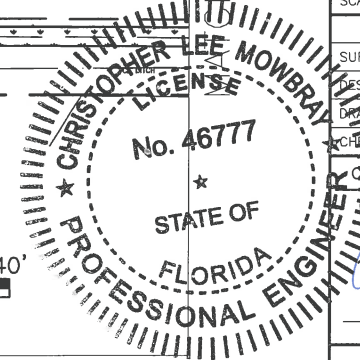


NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777



Signature & Date  
*Chris L. Mowbray*  
10/17/15

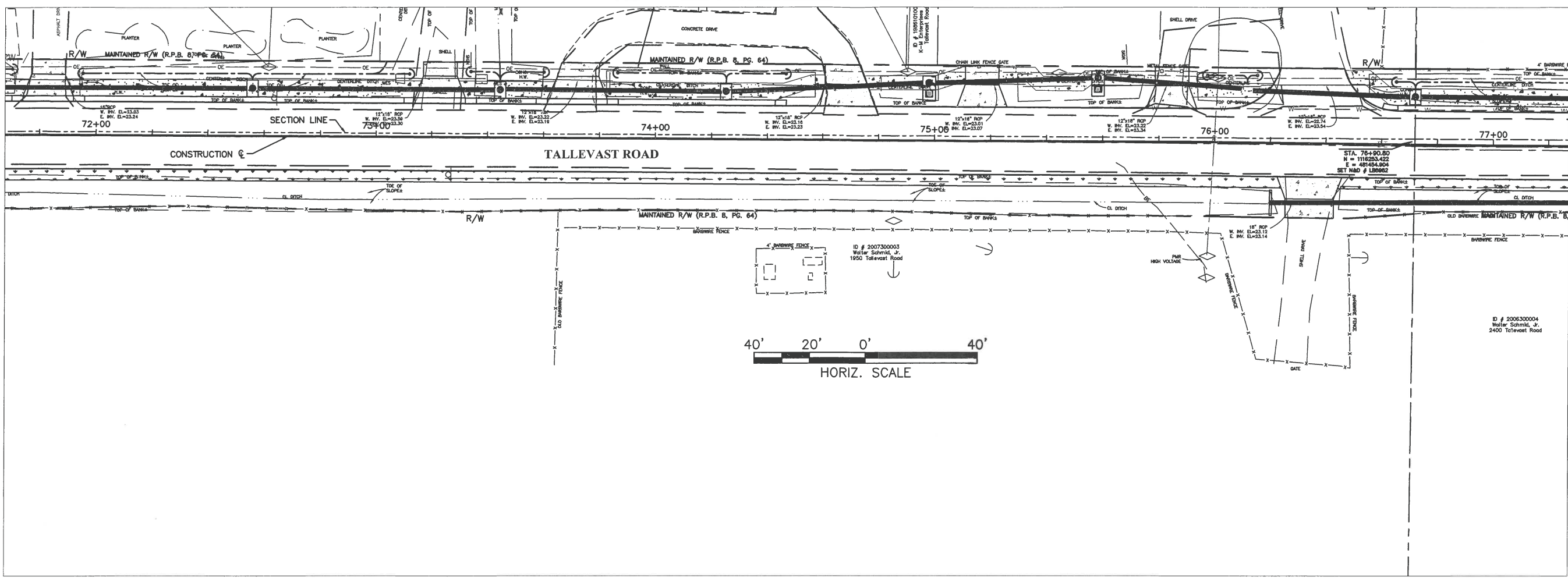
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**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
HORIZONTAL & VERTICAL CONTROL  
STA. 77+40 TO STA. 83+00**

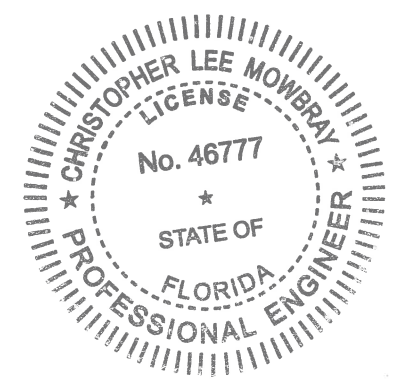
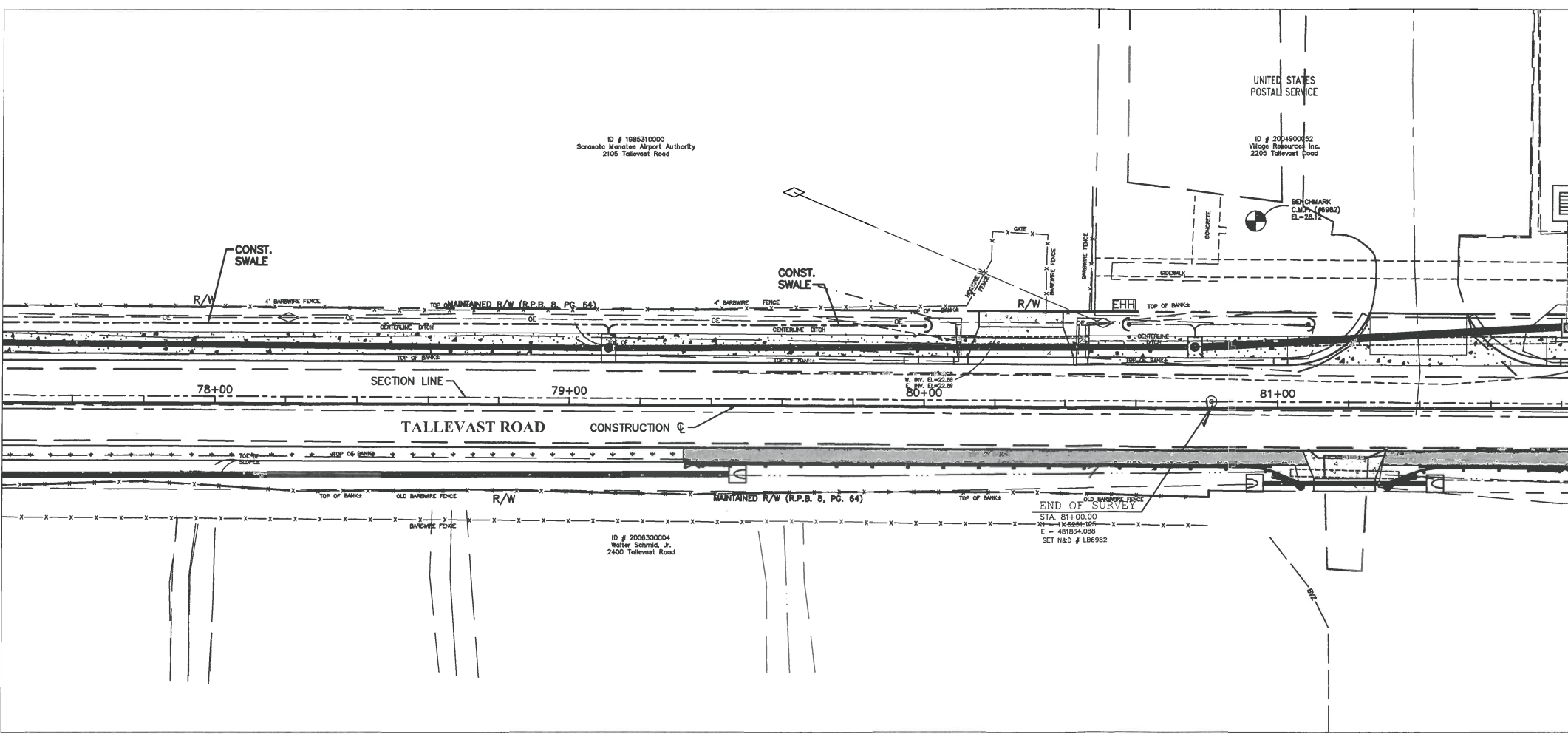
MATCH LINE STA. 71+80

MATCH LINE STA. 77+40



MATCH LINE STA. 77+40

END PROJECT STA. 81+83.62



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

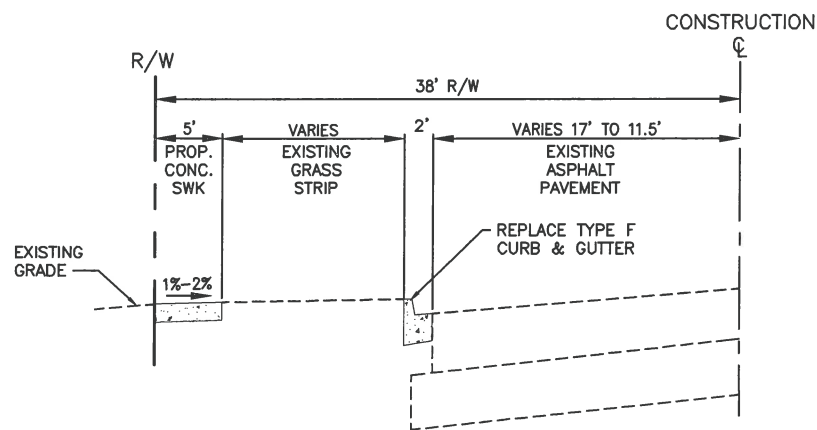
CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777  
*Chris L. Mowbray*  
10/12/15  
Signature & Date

I:\S:\DWG\Engineering\Highway\Engineering\Sidewalks\Tallevast Rd\DWG\Tallevast Sidewalks\Tallevast Plan Set.dwg,8 CONTROL, 10/9/2015 10:57 AM Thom Forrester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

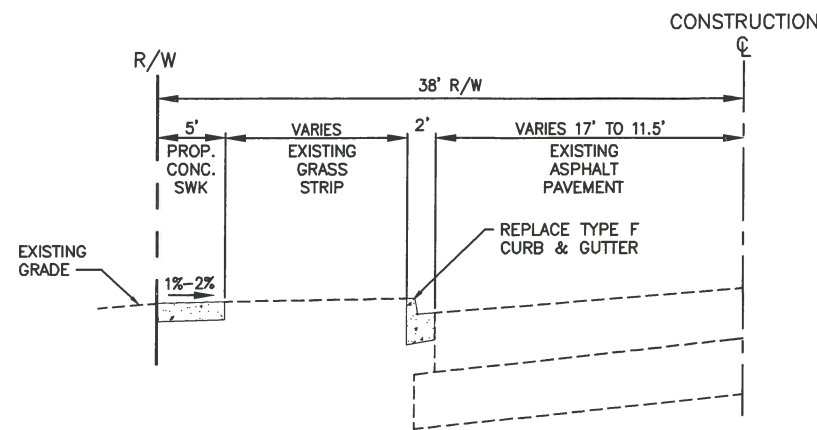




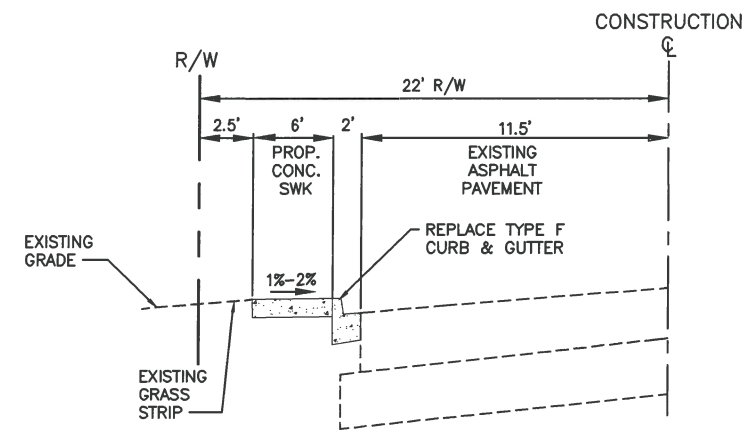
**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
TYPICAL SECTIONS**



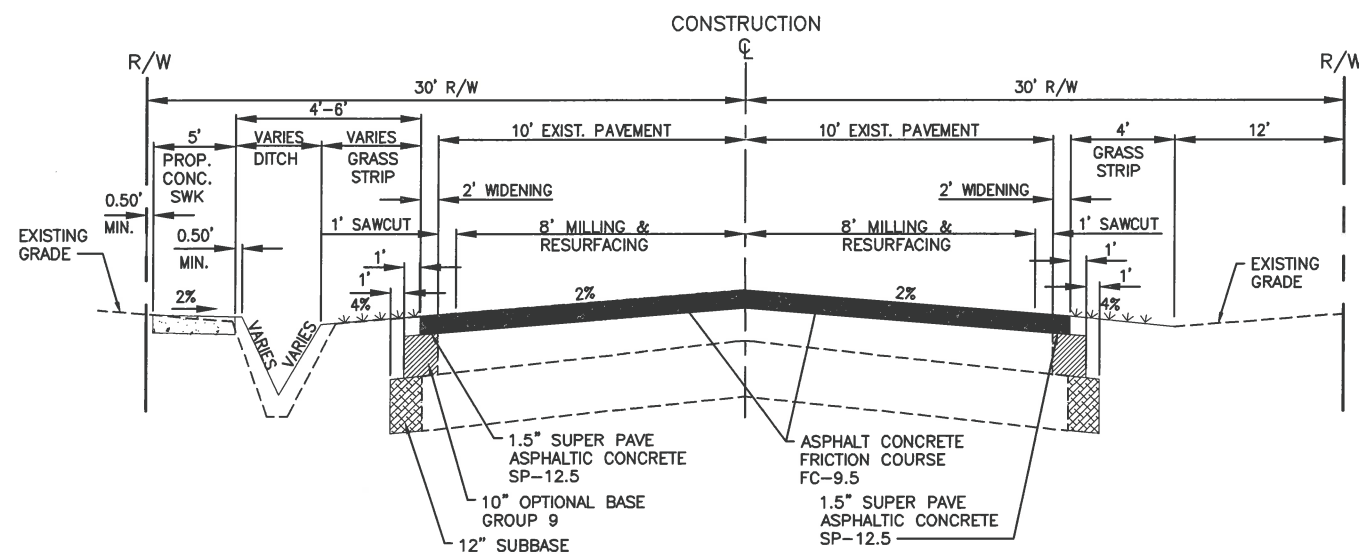
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STA. 50+35.06 TO STA. 51+02.61  
STA. 51+98.33 TO STA. 52+12.09



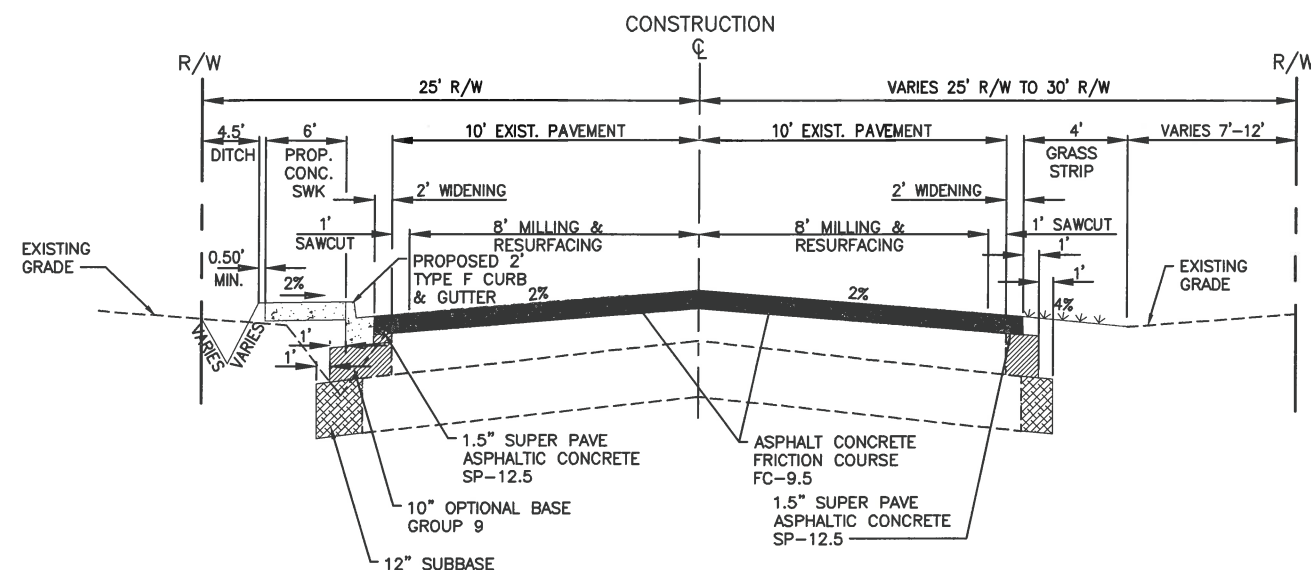
**TYPICAL SECTION 2 – TALLEVAST ROAD**  
STA. 51+02.61 TO STA. 51+98.33



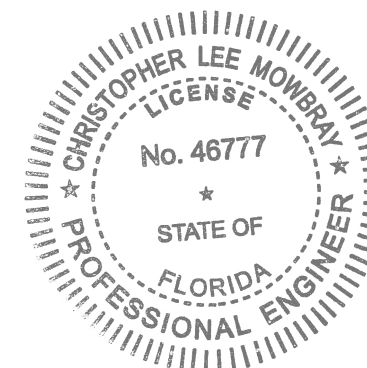
**TYPICAL SECTION 3 – TALLEVAST ROAD**  
STA. 52+12.09 TO STA. 62+97.87



**TYPICAL SECTION 4 – TALLEVAST ROAD**  
STA. 62+82.19 TO STA. 65+65.87  
STA. 74+42.66 TO STA. 76+61.59



**TYPICAL SECTION 5 – TALLEVAST ROAD**  
STA. 65+65.87 TO STA. 74+42.66  
STA. 76+61.59 TO STA. 81+83.64



NO.	DATE	BY	REVISION DESCRIPTION

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	NTS

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

*Chris L. Mowbray*  
10/12/15  
Signature & Date

S:\PWD\_Engineering\Shore Highway\_Engineering\Sidewalks\Tallevast\_Road\DWG\Tallevast\_Plan\_Sect.dwg, 10/9/2015 11:50 AM Thom Forrester, 1:1, ANSI (full bleed B (17.00 x 11.00 inches))







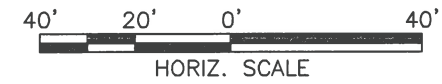
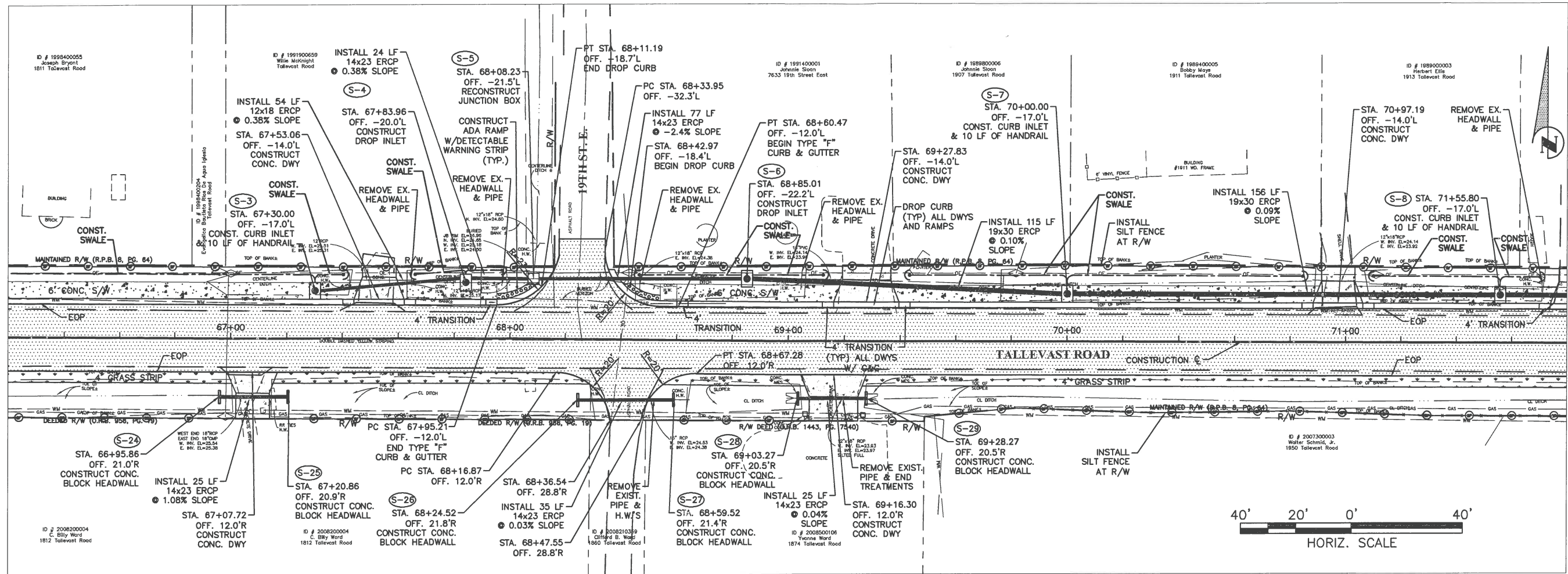




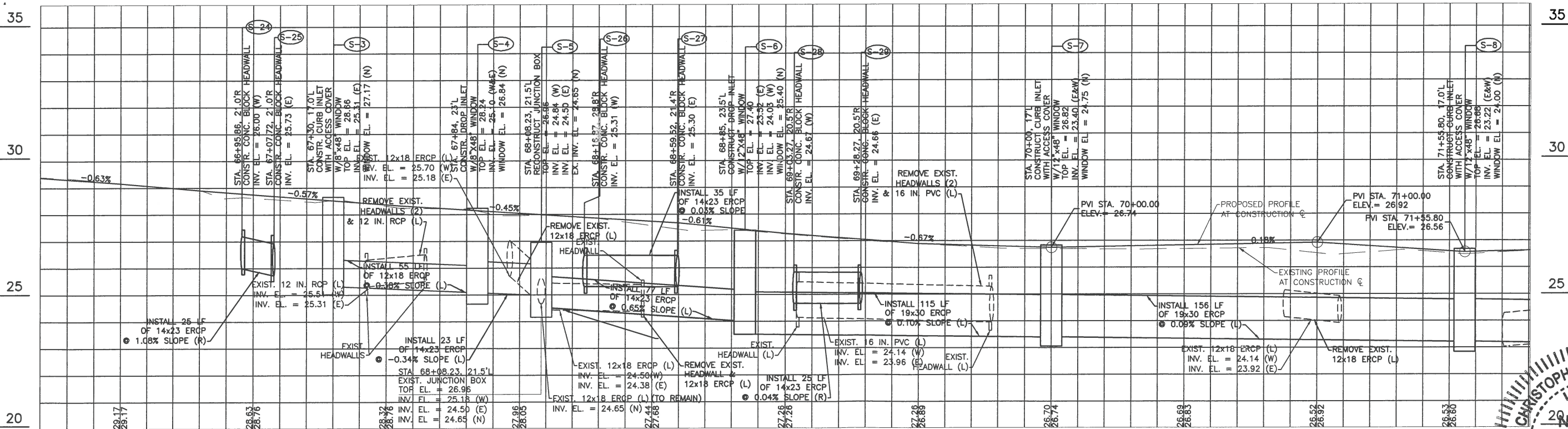
**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
PLAN & PROFILE STA. 66+20 TO 71+80**

MATCH LINE STA. 66+20

MATCH LINE STA. 71+80



+20      67+00      68+00      69+00      70+00      71+00      +80

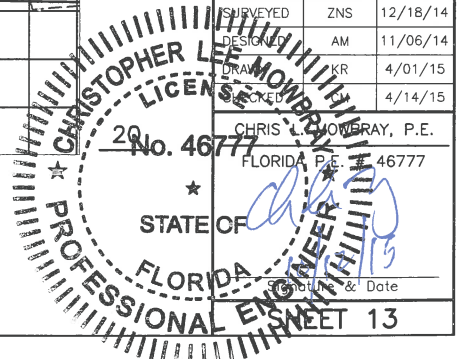


NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

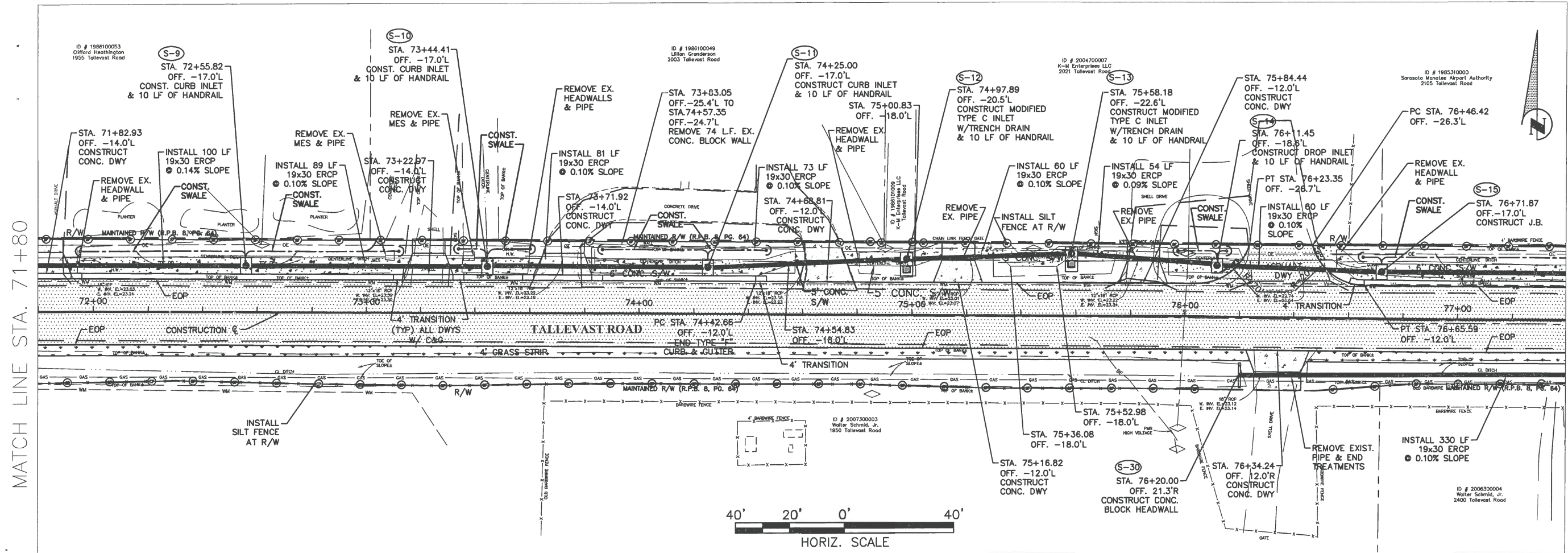
BY	DATE
SURVEYED	ZNS 12/18/14
DESIGNED	AM 11/06/14
DRAWN	MR 4/01/15
CHECKED	4/14/15

CHRIS BOWBRAY, P.E.  
FLORIDA P.E. # 46777





**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
PLAN & PROFILE STA. 71+80 TO 77+40**



MATCH LINE STA. 71+80

**STATE OF FLORIDA**  
PROFESSIONAL ENGINEER  
CHRISTOPHER LEE MOWBRAY  
LICENSE No. 46777  
Signature & Date

NO.	REVISION DESCRIPTION	BY	DATE

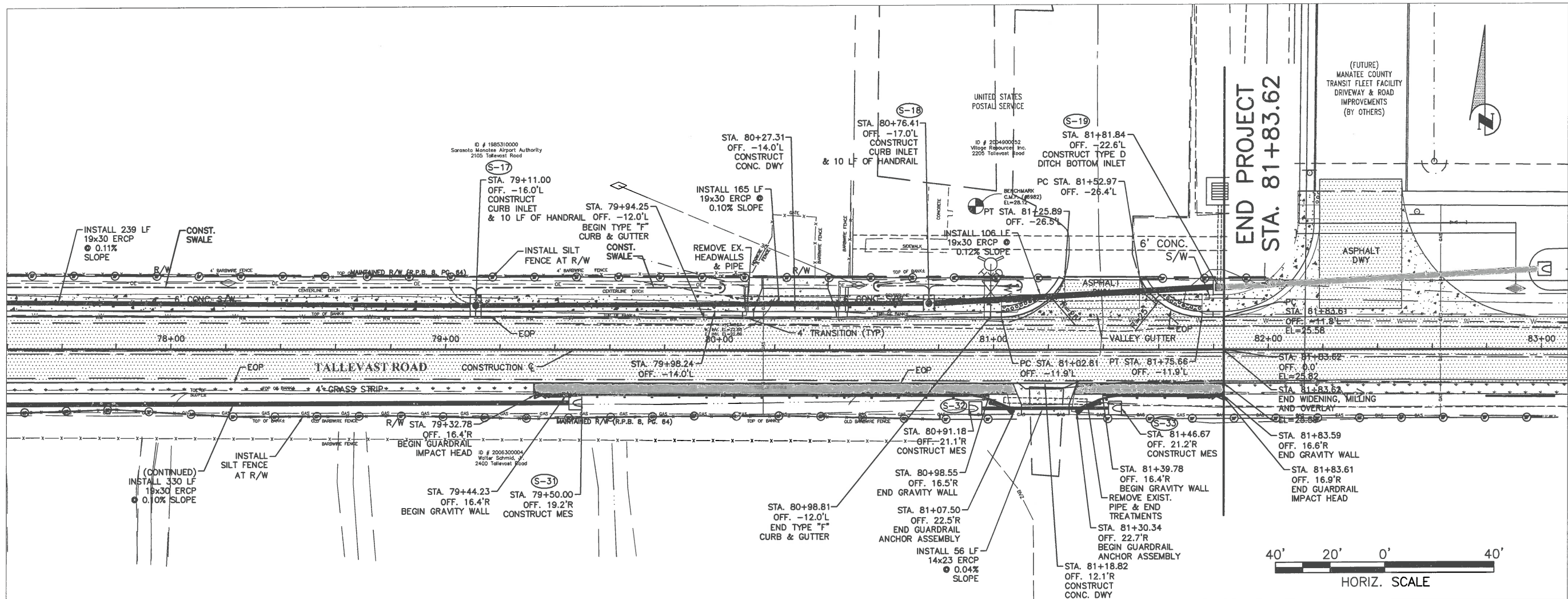
PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

BY	DATE
SURVEYED ZNS	12/18/14
DESIGNED AM	11/06/14
CHECKED KR	4/01/15
DATE CM	4/14/15

I:\Projects\Engineering\Shore\Highway\Engineering\Utilities\Tallevast\_Road\DWG\Tallevast\_Road\_Sidewalk.dwg, 10/9/2015 11:02 AM, Thom Forrester, LT, ANSI full bleed B (17.00 x 11.00 inches)

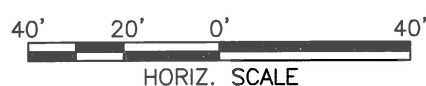


**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
PLAN & PROFILE STA. 77+40 TO 81+83.62**



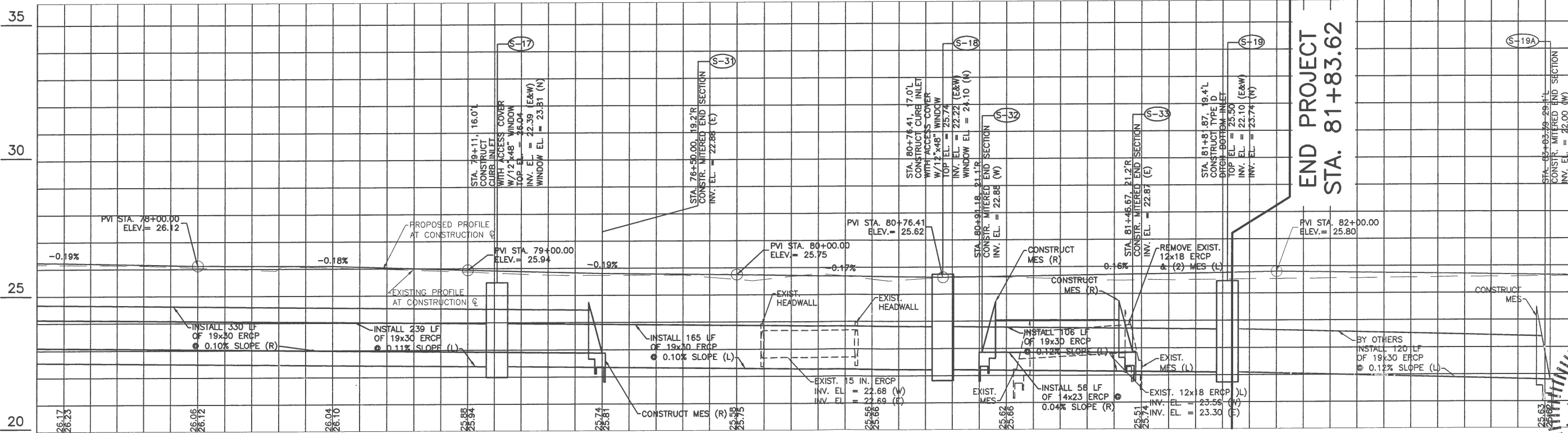
MATCH LINE STA. 77+40

**END PROJECT  
STA. 81+83.62**



+40      78+00      79+00      80+00      81+00      82+00

**NOTE:**  
LIMITS OF SWALE REGRADE  
STA. 64+50 RT. TO STA. 81+83.62 RT.



**END PROJECT  
STA. 81+83.62**

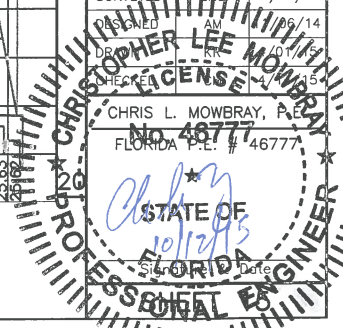
NO.	REVISION DESCRIPTION	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED
SURVEYED	ZNS 12/18/14
DRAWN	10/16/14
CHECKED	10/16/14
DATE	10/16/14

BY OTHERS  
INSTALL 120 LF OF 19x30 ERCP @ 0.12% SLOPE (L)



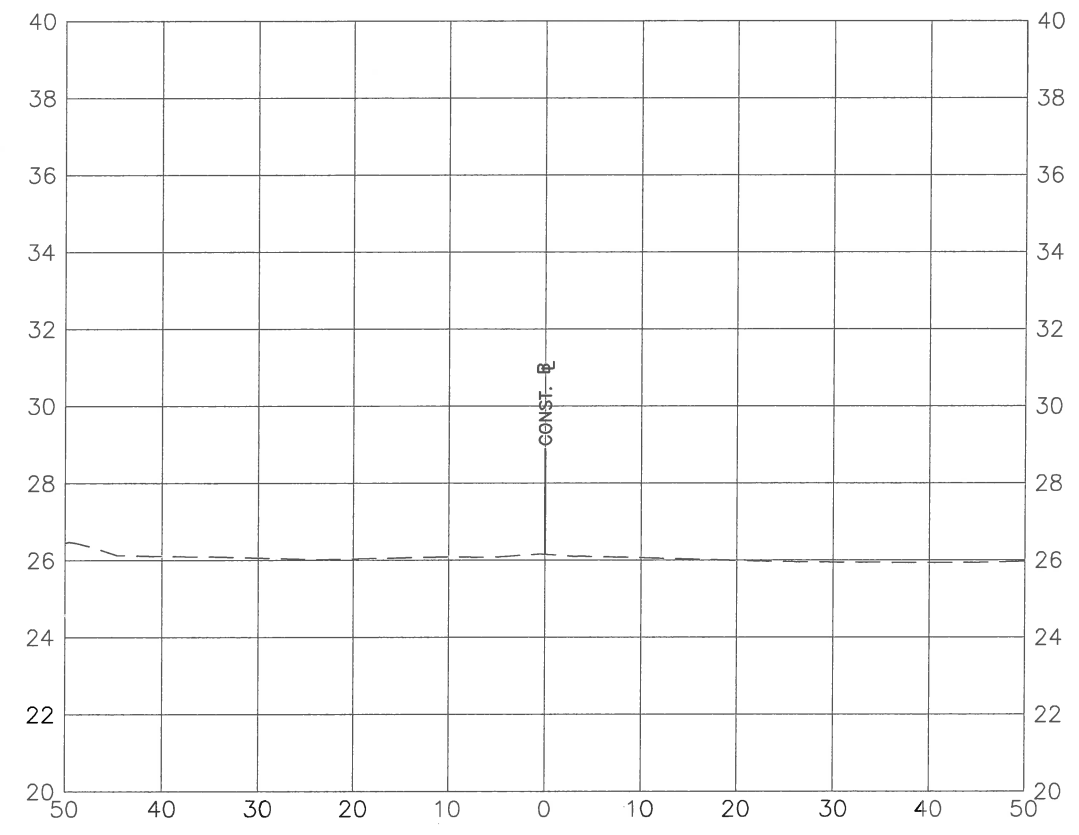
I:\VWD\_Engineering\Shore Highway\_Engineering\Sidewalks\Tallevast\_Road\DWG\Tallevast\_Plan\_Sat.dwg, 15:10:03 AM, 10/16/2014, 11:03 AM, Thom Forrester, 11, ANS, full bleed B (17.00 x 11.00 inches)



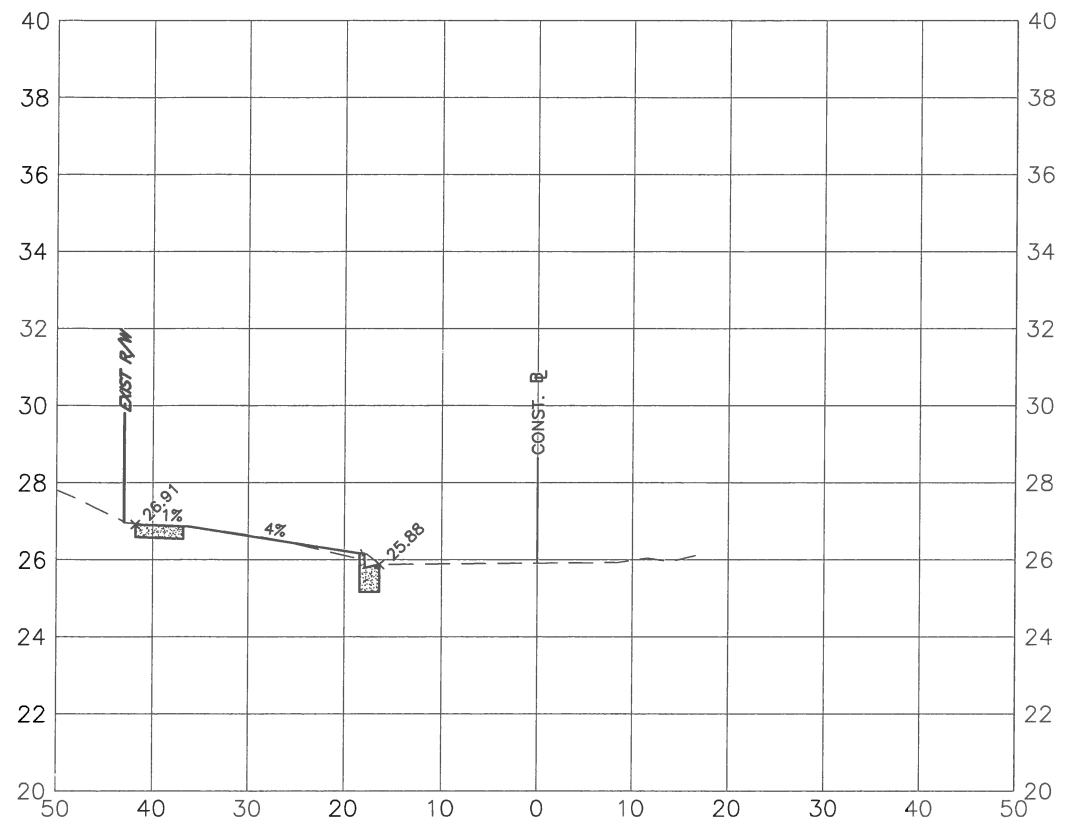
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 50+00 thru Sta. 51+50**

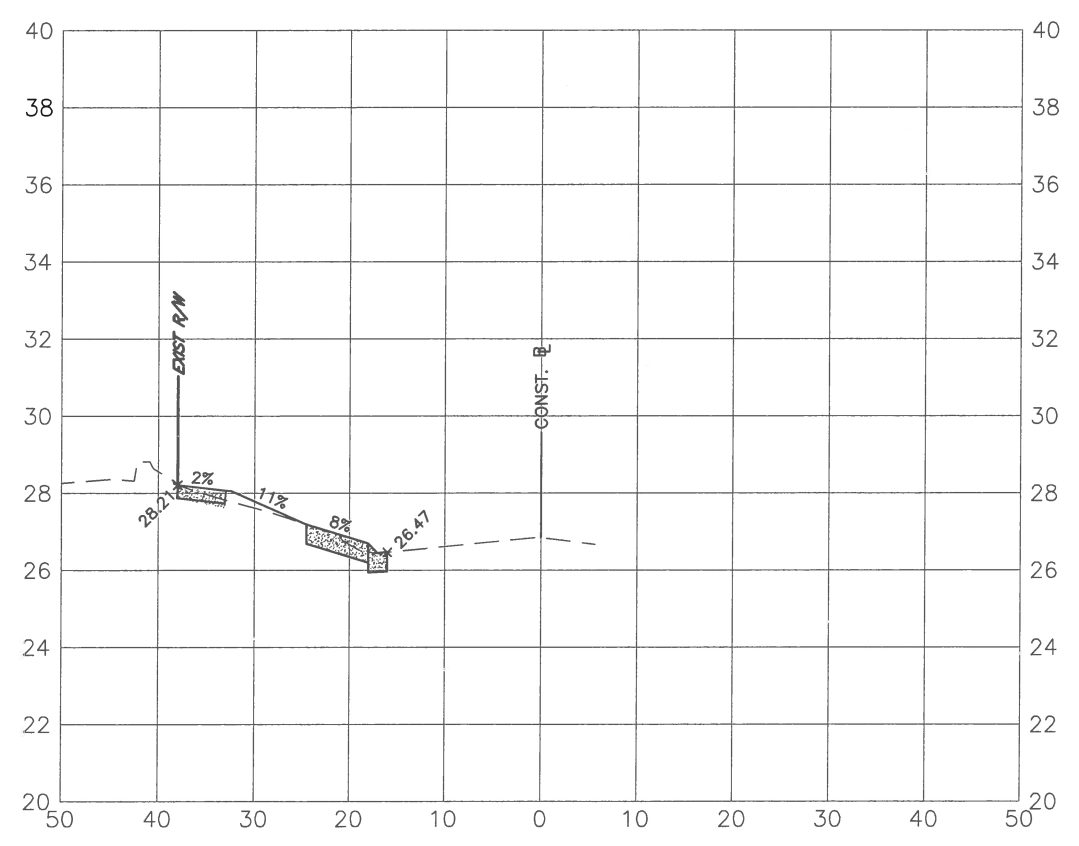
50+00.00



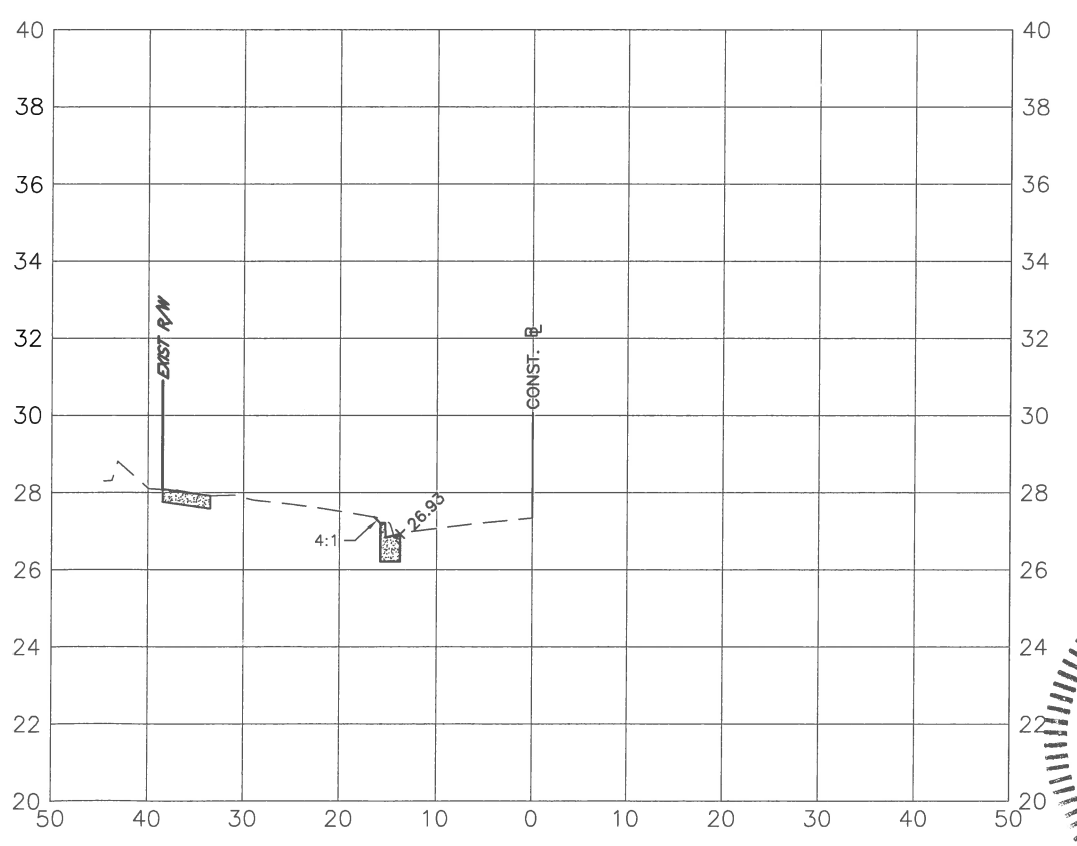
50+50.00



51+00.00



51+50.00



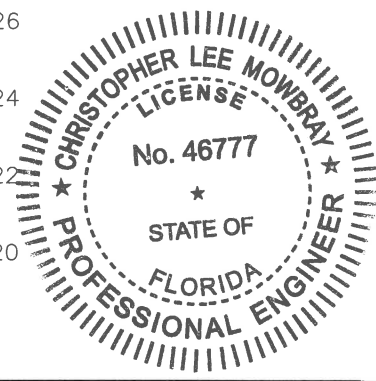
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT # 0019900  
SURVEY # 00-43835  
SEC./TWN./RGE 30/31S/18E  
SCALE V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.

FLORIDA P.E. # 46777  
*Chris L. Mowbray*  
10/12/15  
Signature & Date



I:\VWD\_Engineering\_Shore\_Highway\_Engineering\_Sidewalks\Tallevast\_Road\AREA\SECTIONS.dwg, 16 SEC. 11/9/2015 8:49 AM Allays Alcega/Monsinos, I.T., 11/17

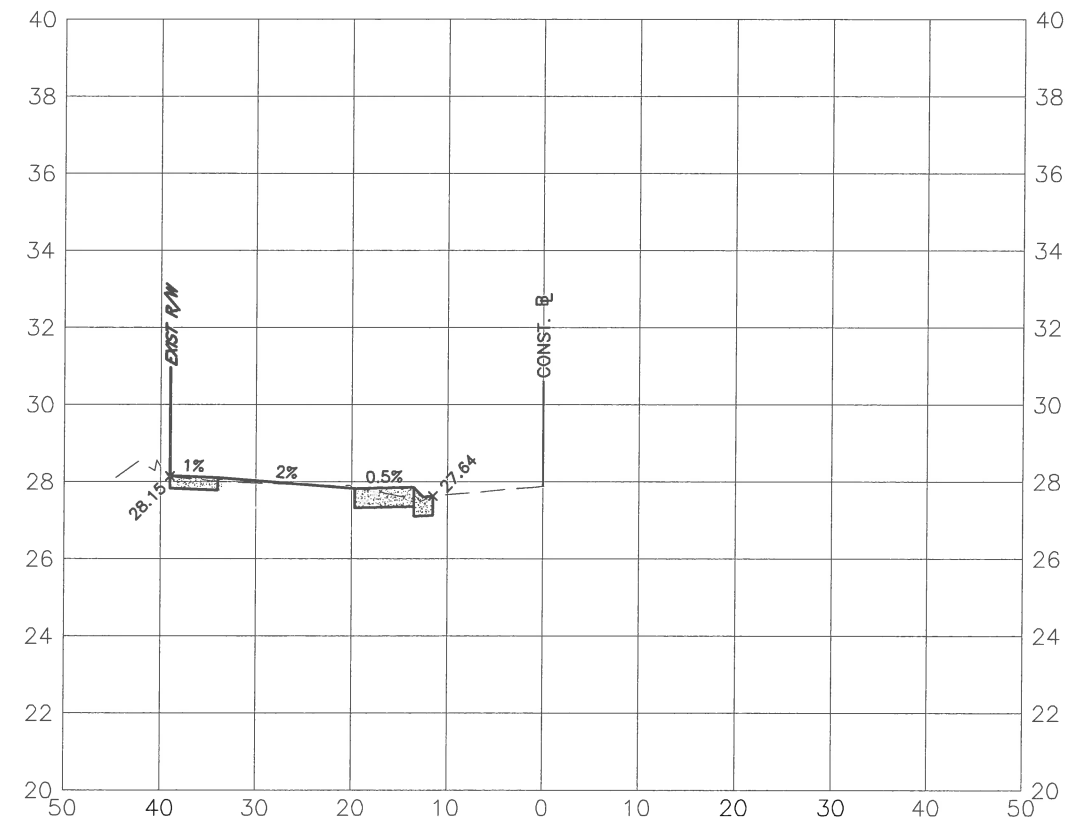




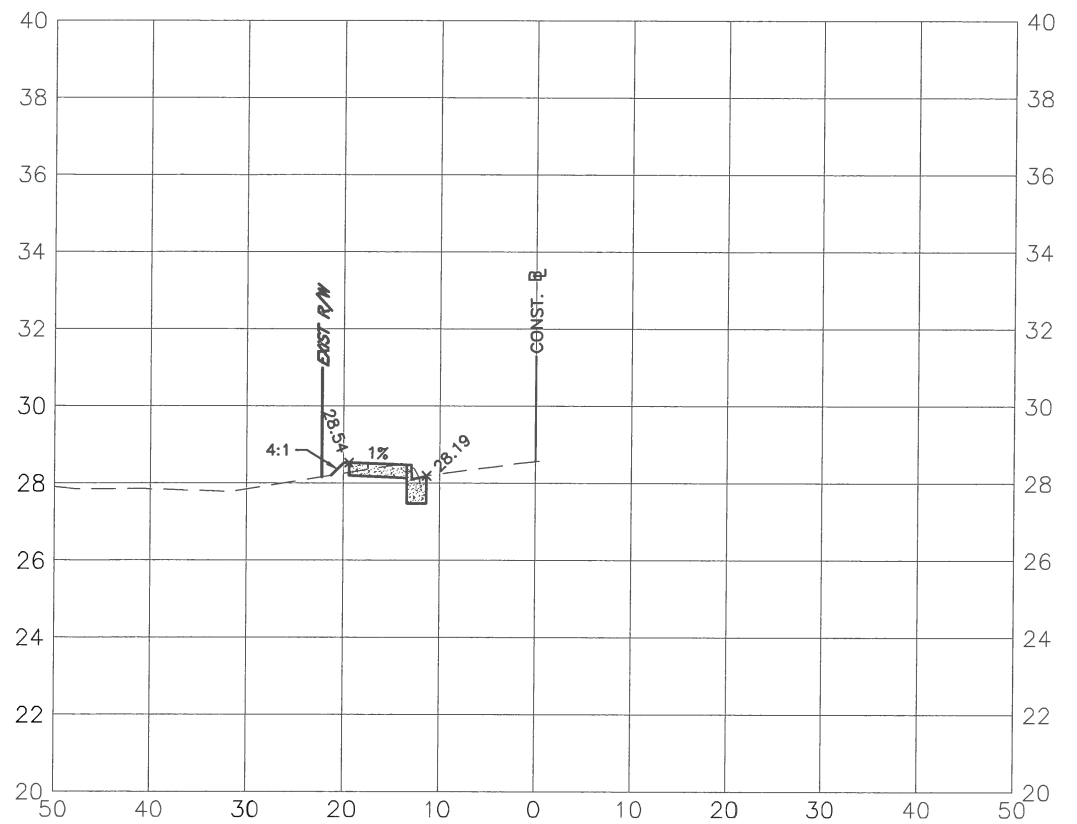
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 52+00 thru Sta. 53+50**

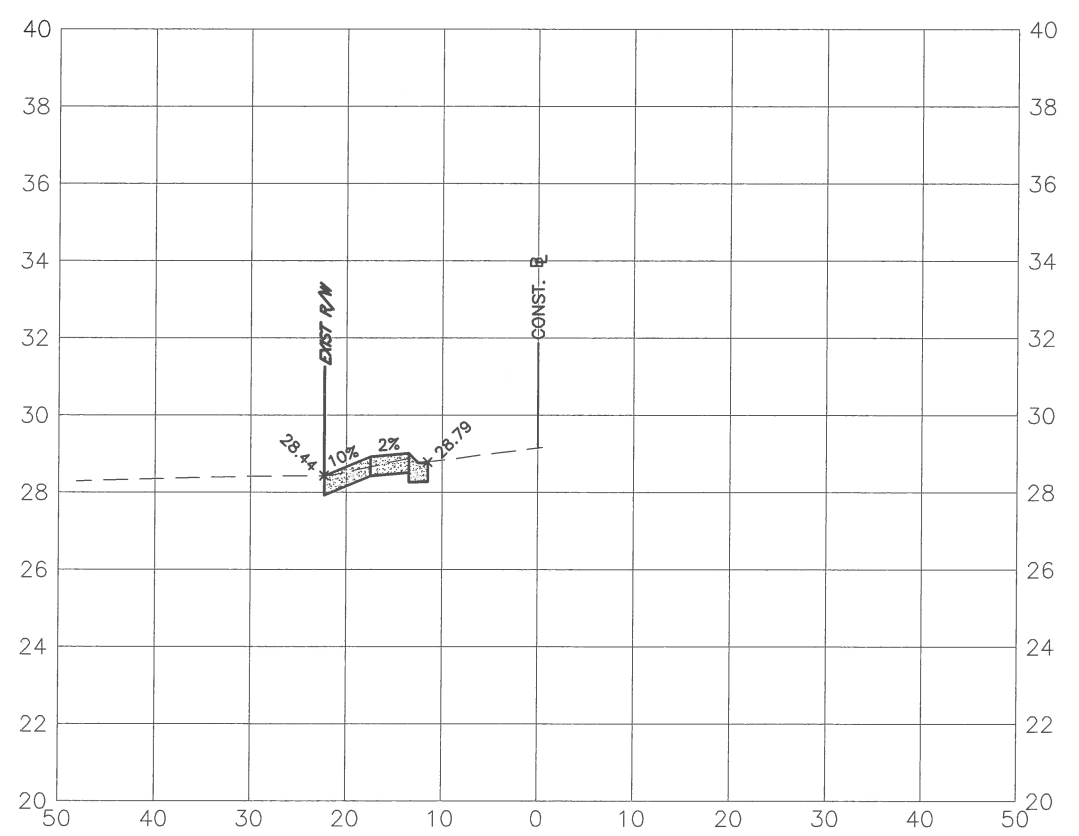
52+00.00



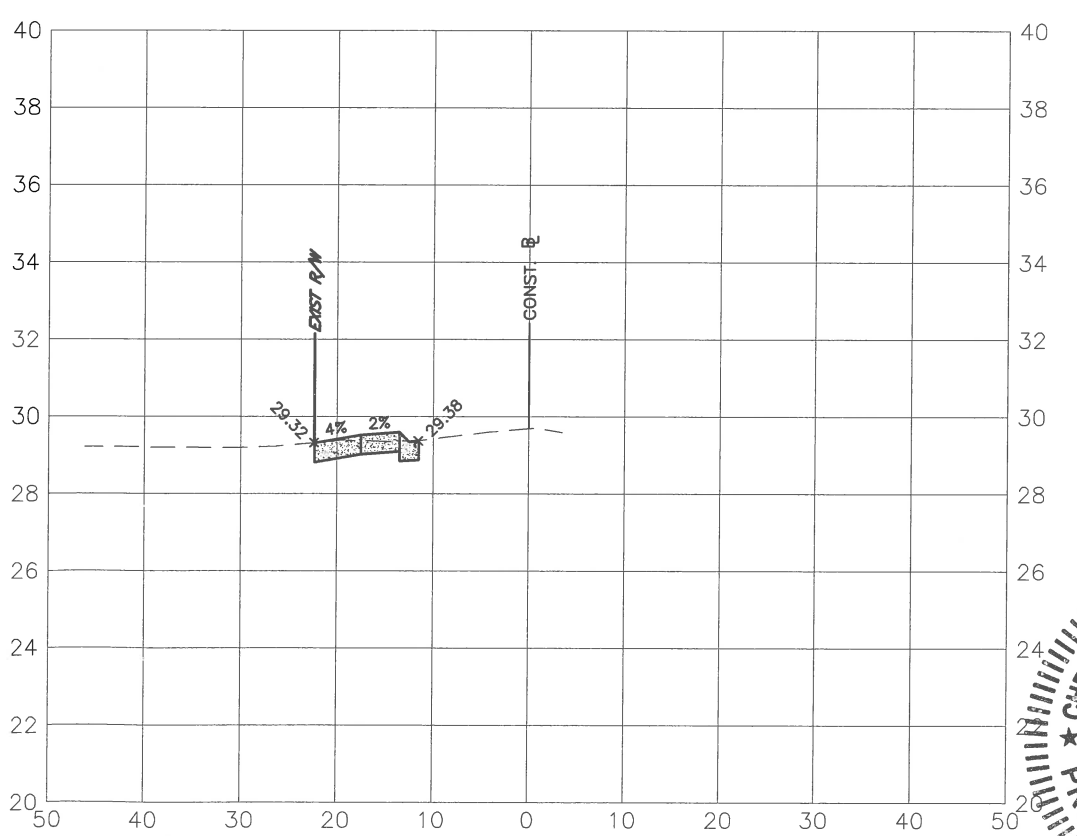
52+50.00



53+00.00



53+50.00



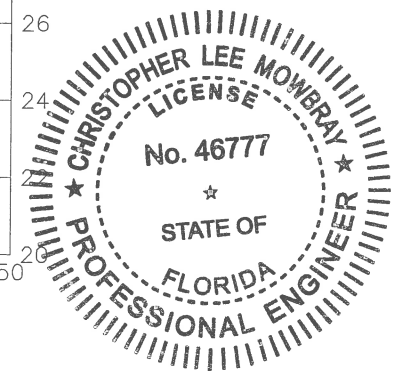
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

*Chris Mowbray*  
10/10/15  
Signature & Date



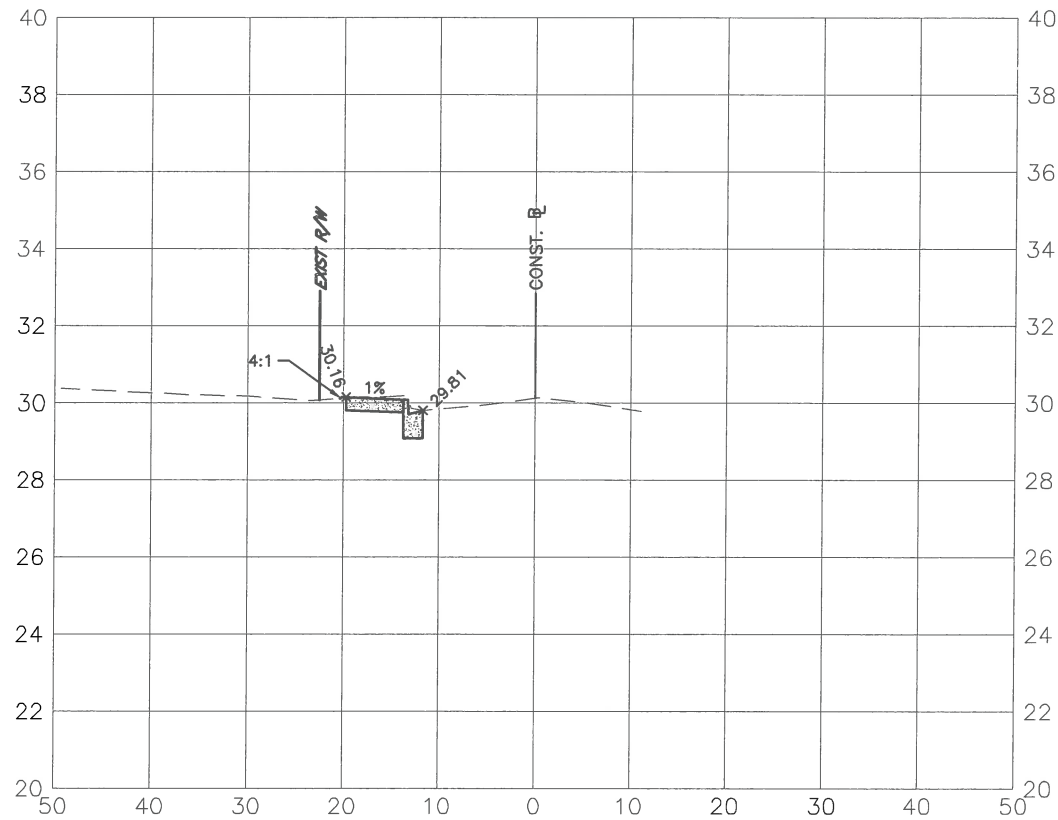
I:\PWP\_Engineering\Shore Highway\_Engineering\Sidewalks\Tallevast\_Rd\DWG\REF\SECTIONS.dwg, P SEC. 10/9/2015 9:52 AM Thom Forrester, 1:1, ANSI Lull bleed B (17.00 x 11.00 inches)



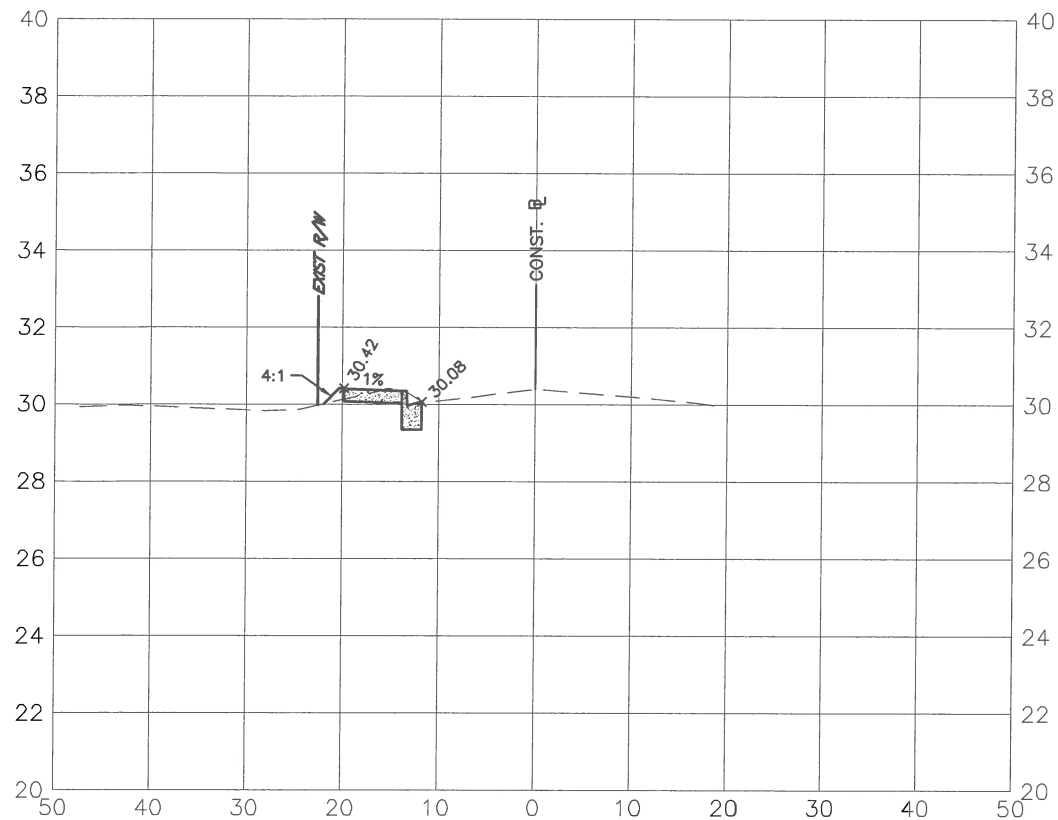
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 54+00 thru Sta. 55+50**

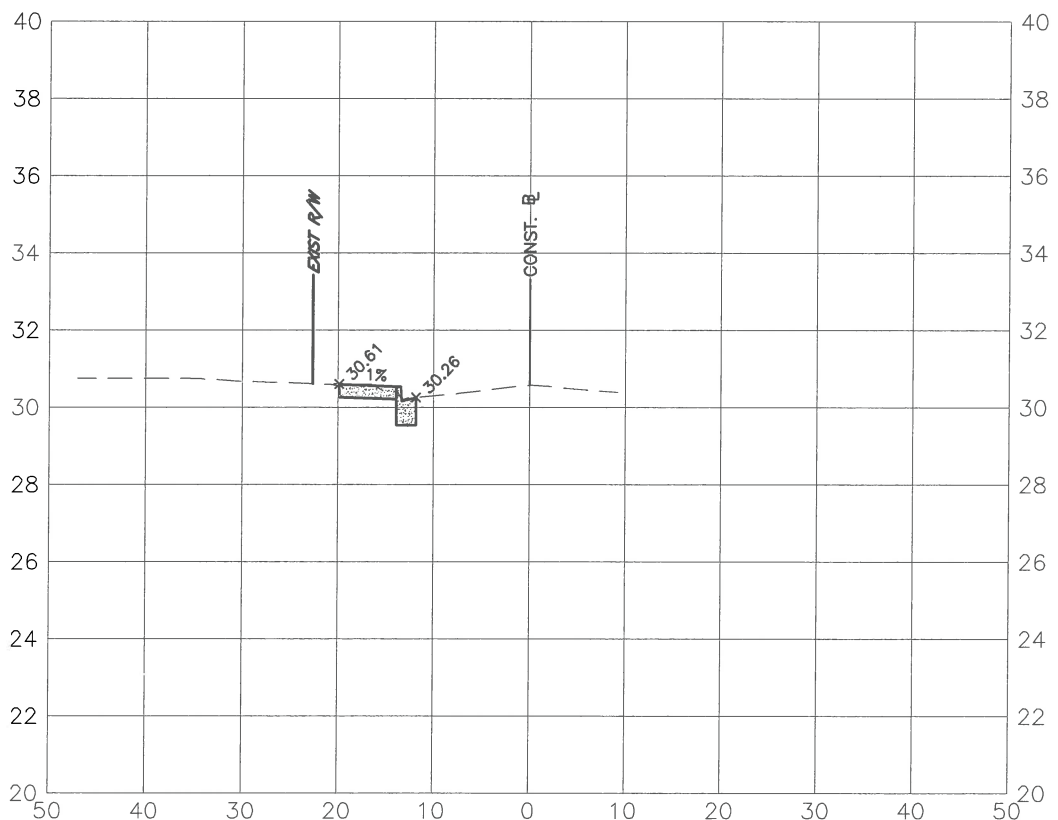
54+00.00



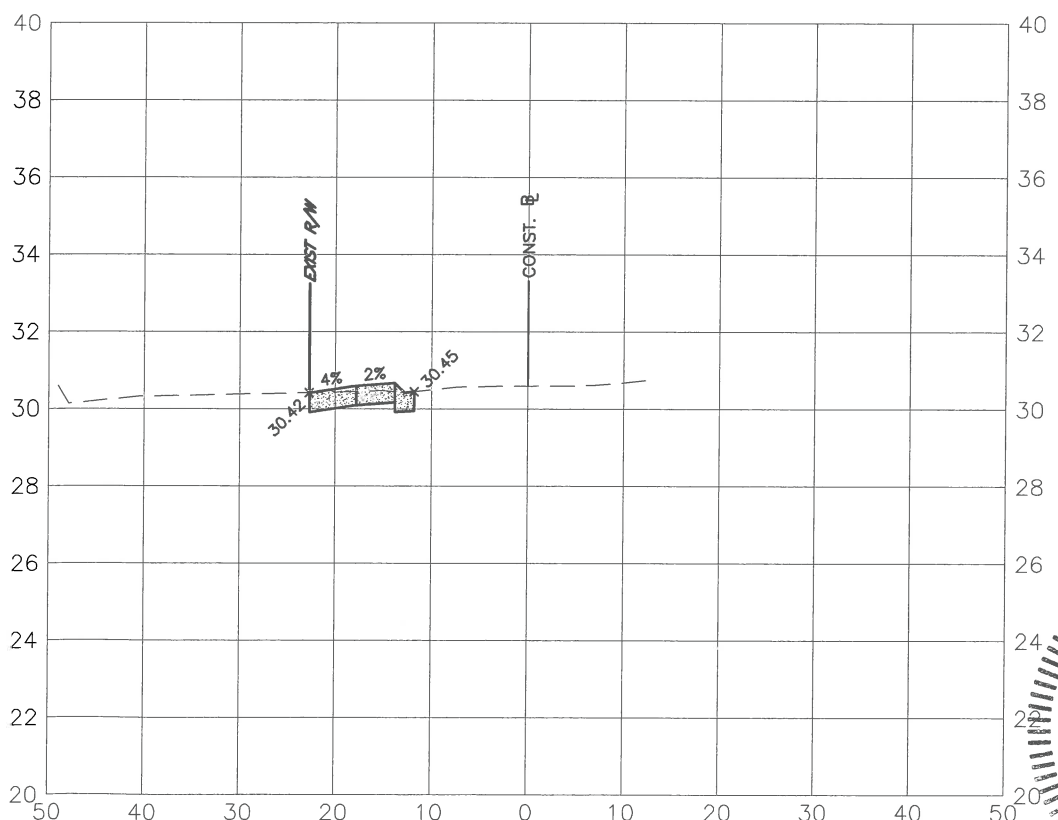
54+50.00



55+00.00



55+50.00



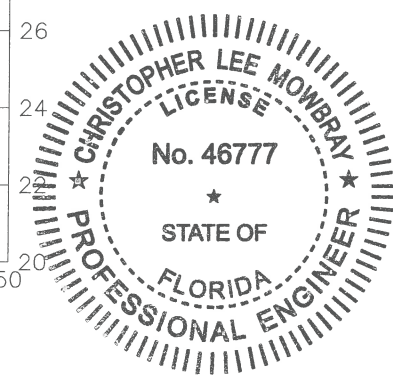
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

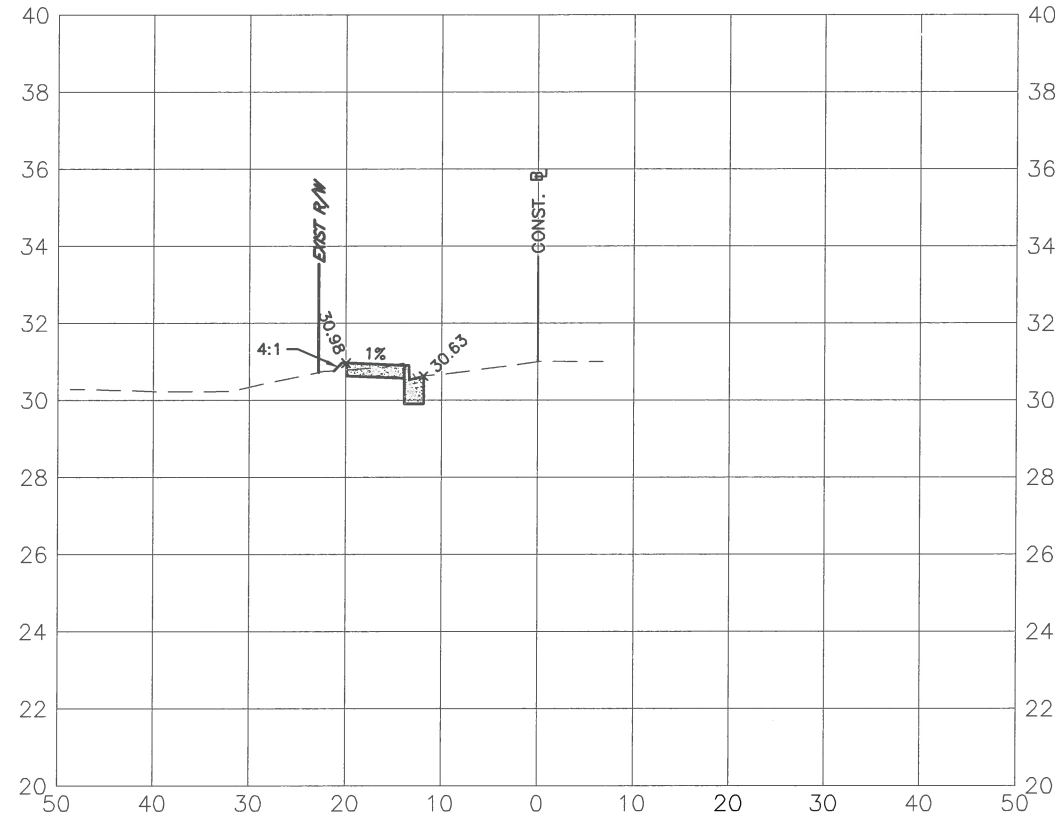
*Chris L. Mowbray*  
10/17/15  
Signature & Date



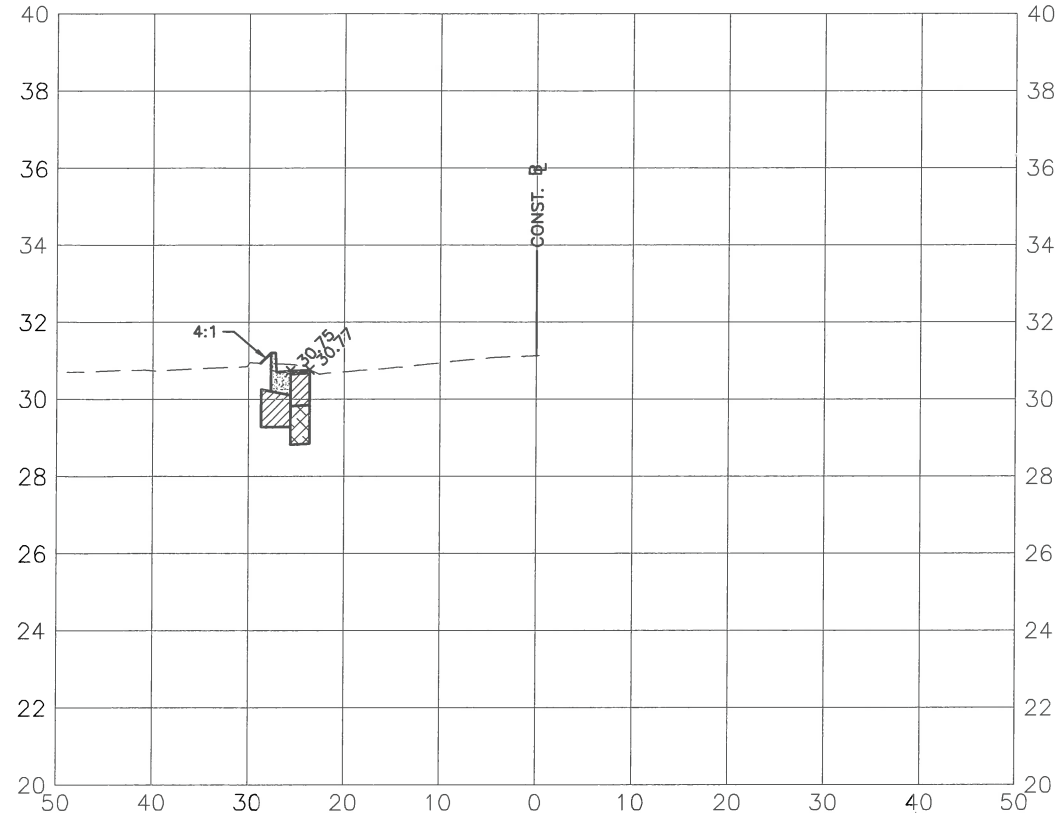
S:\PWD\_Engineering\_Series\Highway\_Engineering\Sidewalk\Tallevast Rd\DWG\REF SECTIONS.dwg, 10/07/2015 9:53 AM Thom Forrester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 56+00 thru Sta. 57+50**

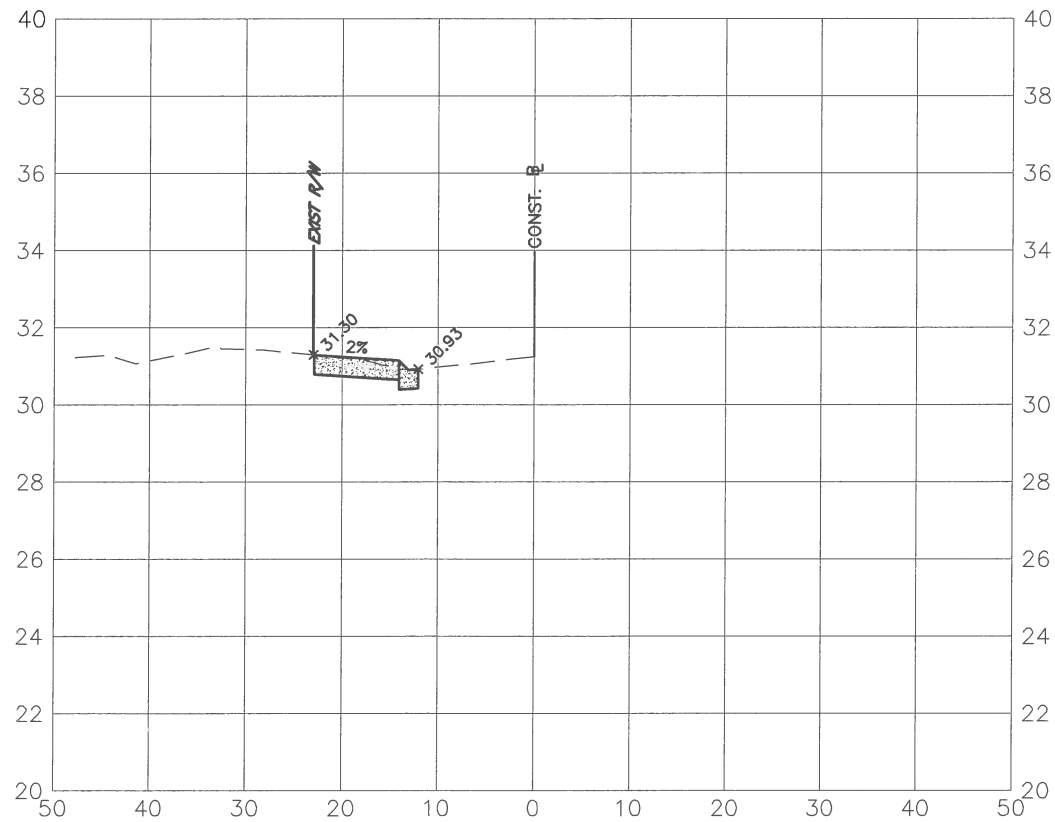
56+00.00



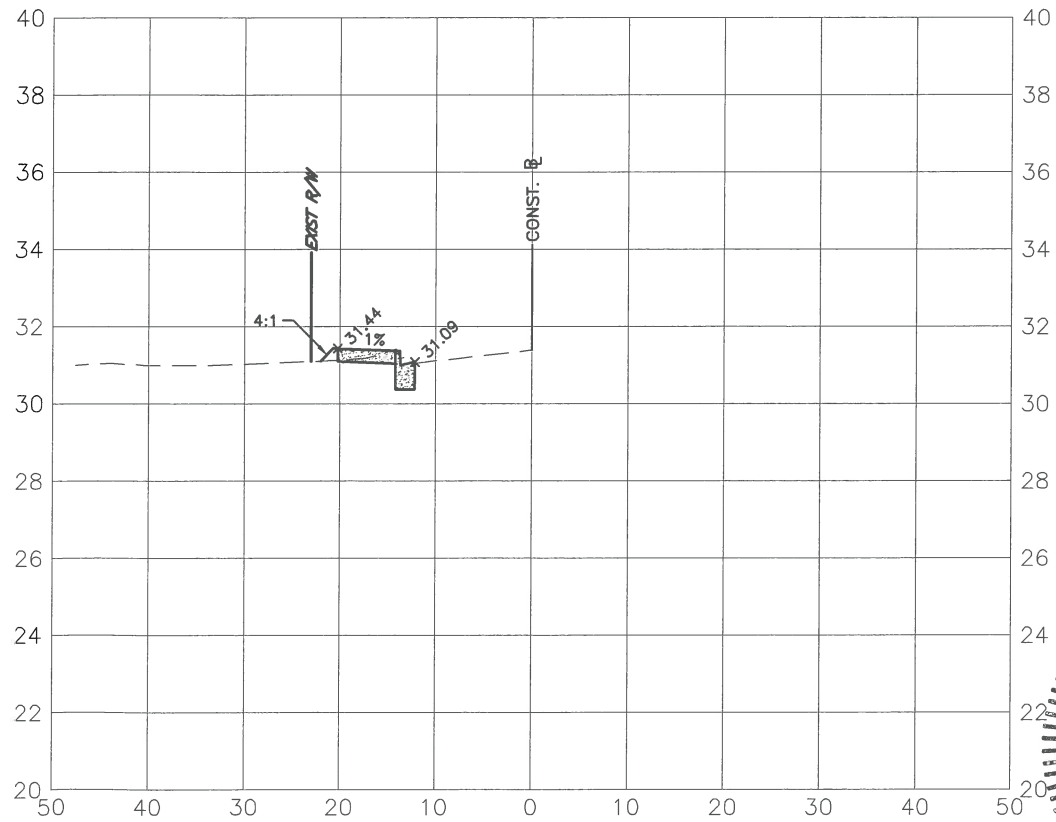
56+50.00



57+00.00



57+50.00



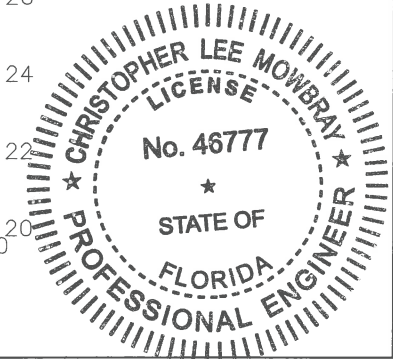
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

*Chris Mowbray*  
10/12/15  
Signature & Date



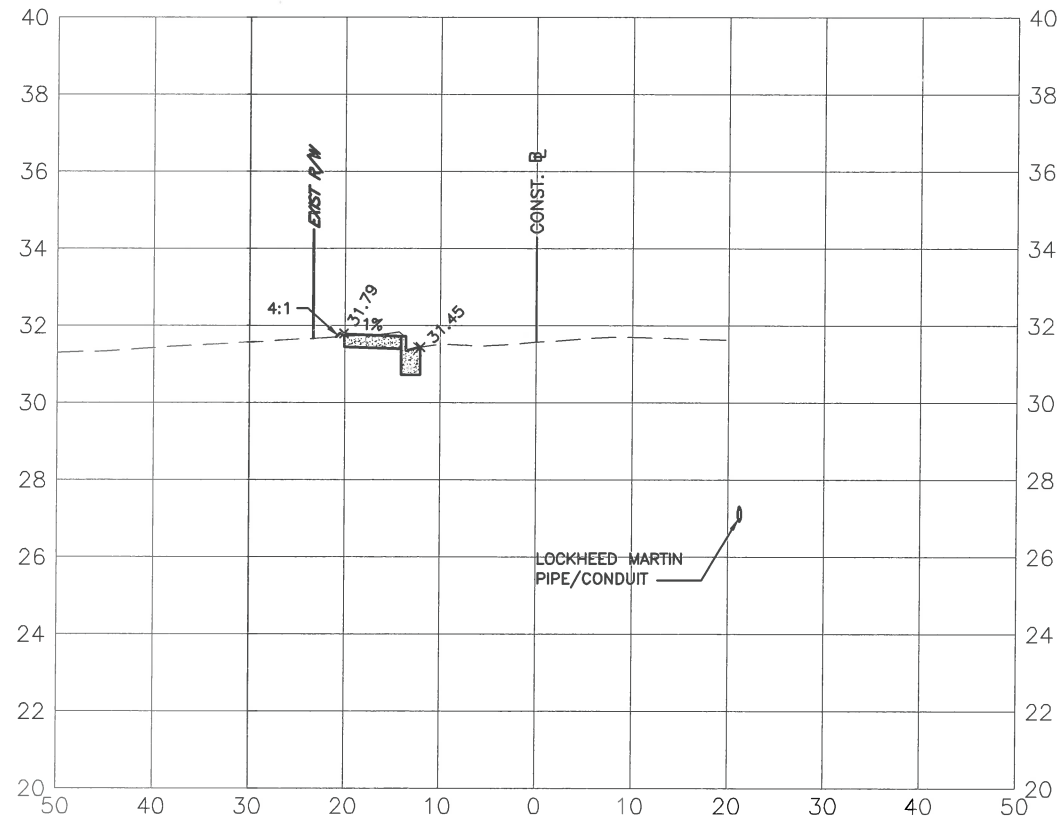
I:\Projects\Engineering\Shore Highway Engineering\Sidewalks\Tallevast Rd\DWG\AREA\SECTIONS.dwg, 18 DEC 10 9:27:2015 9:54 AM Thom Forrester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



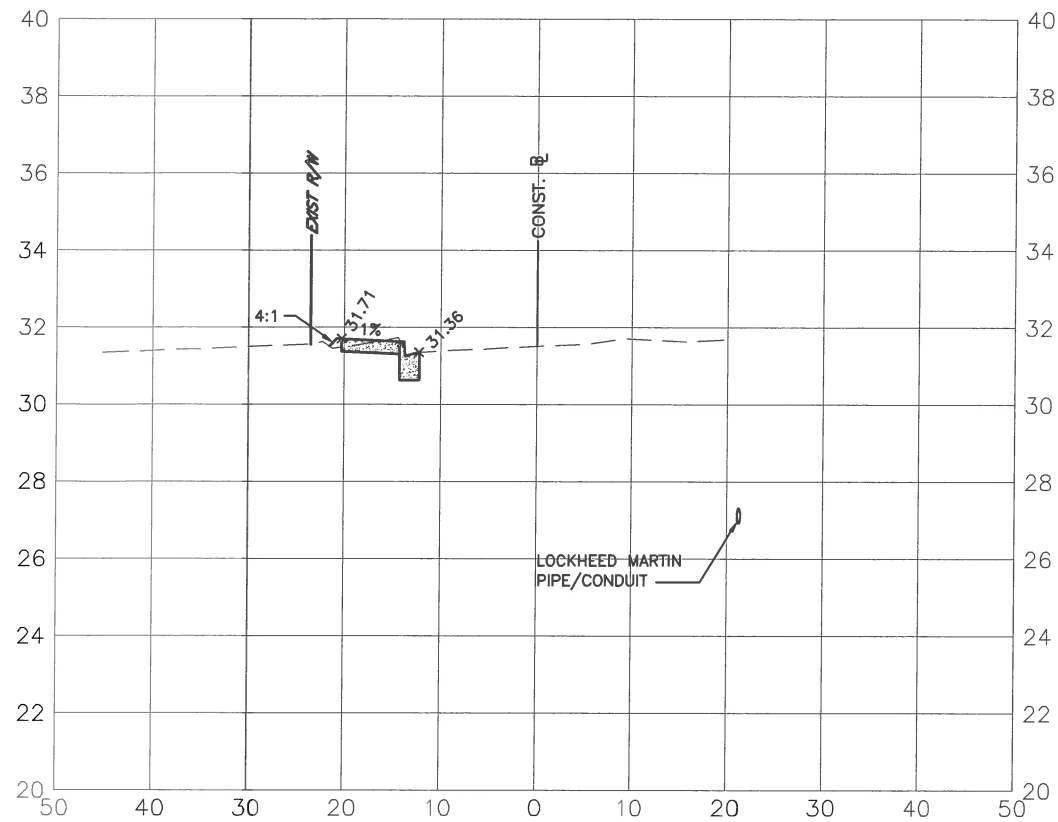


**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 60+00 thru Sta. 61+50**

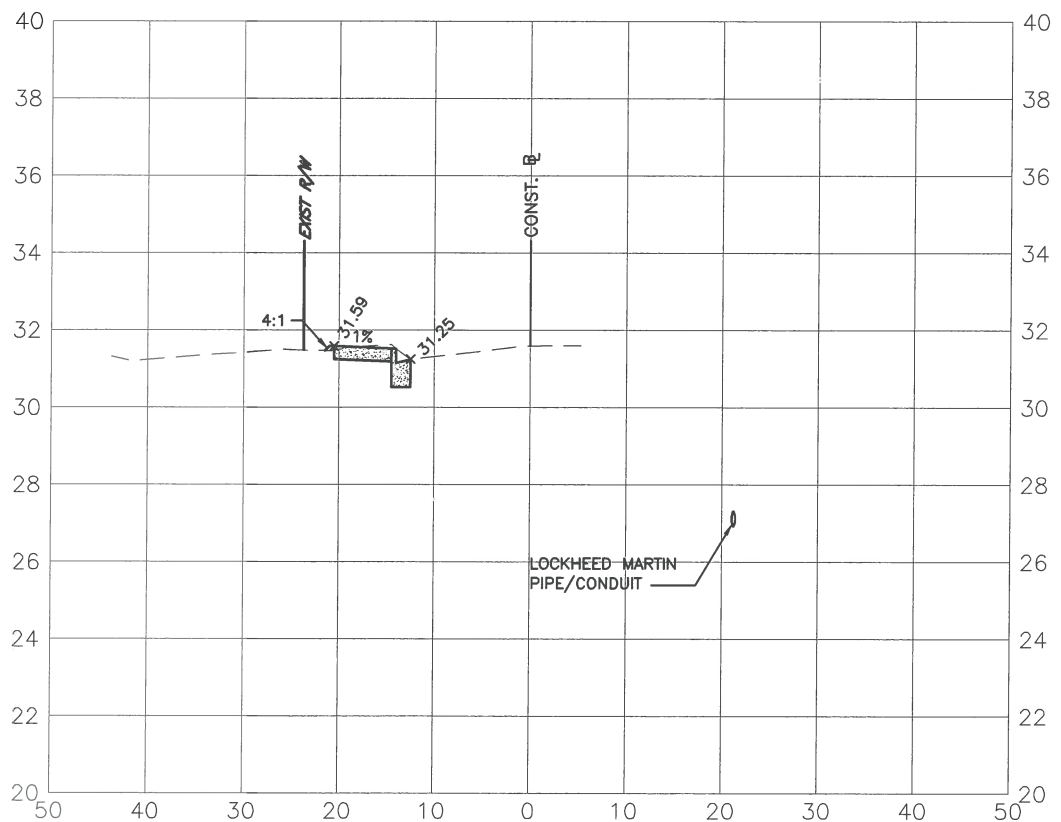
60+00.00



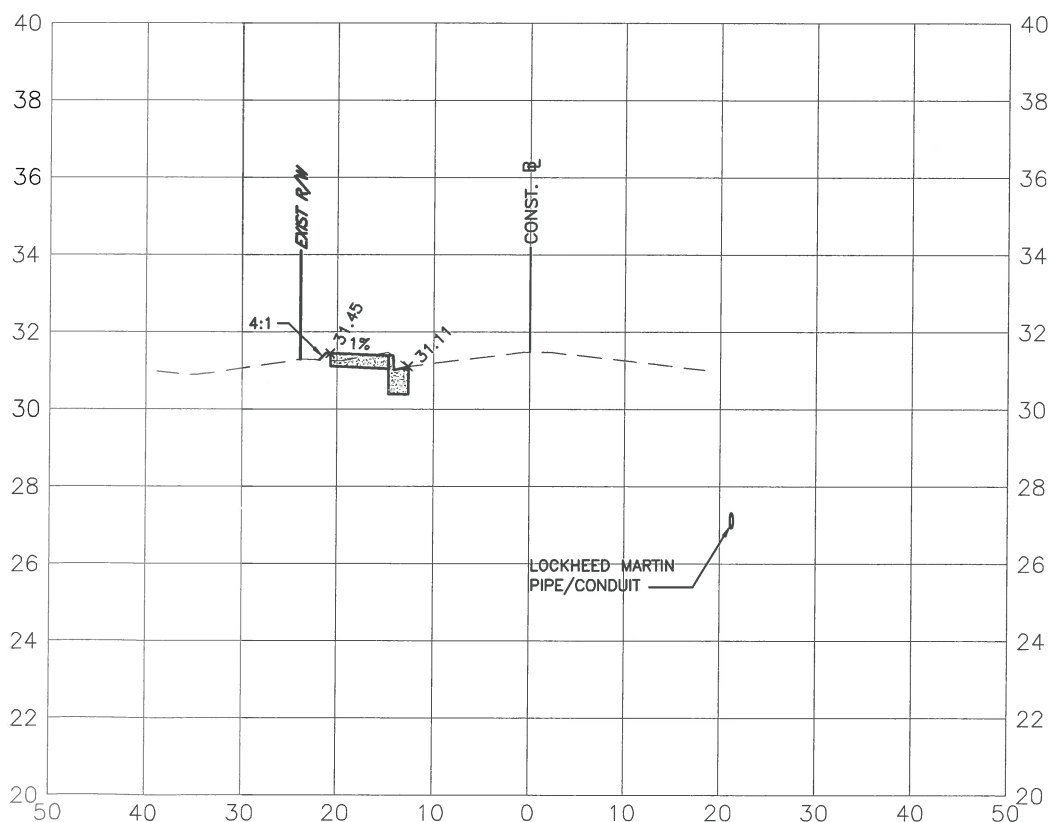
60+50.00



61+00.00



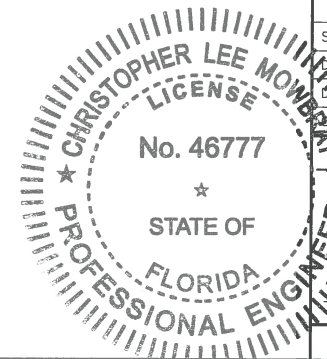
61+50.00



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

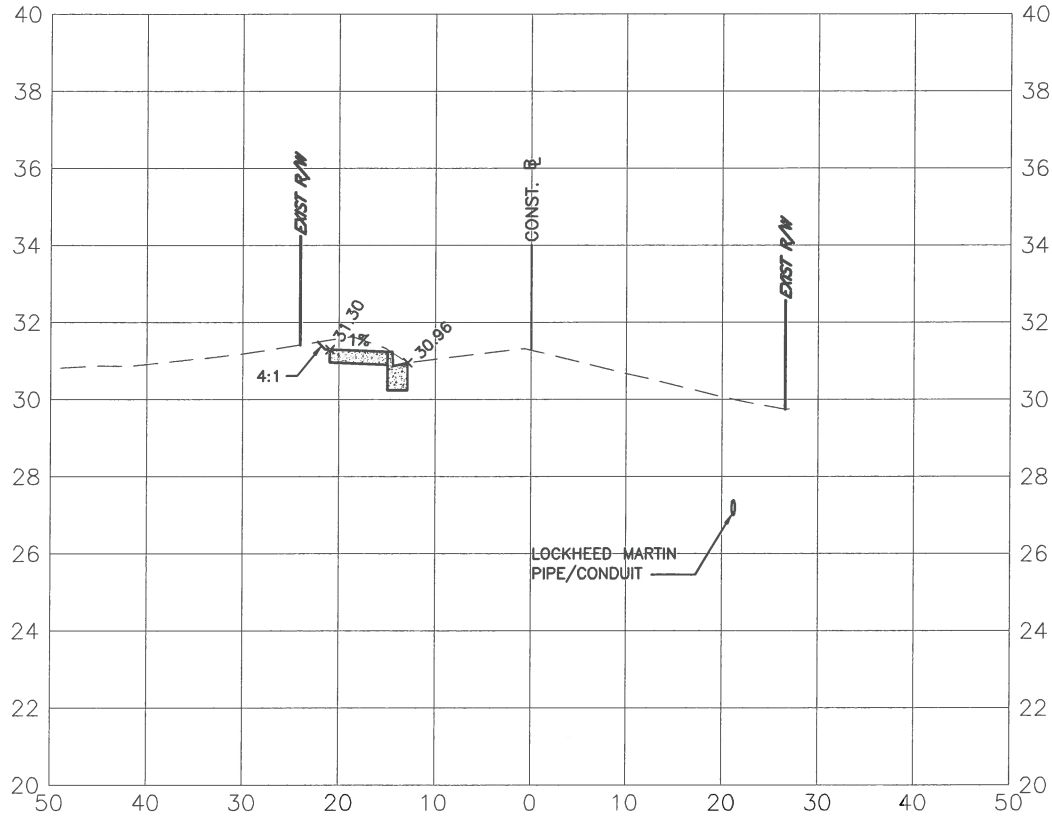


CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777  
*[Signature]*  
10/22/15  
Signature & Date

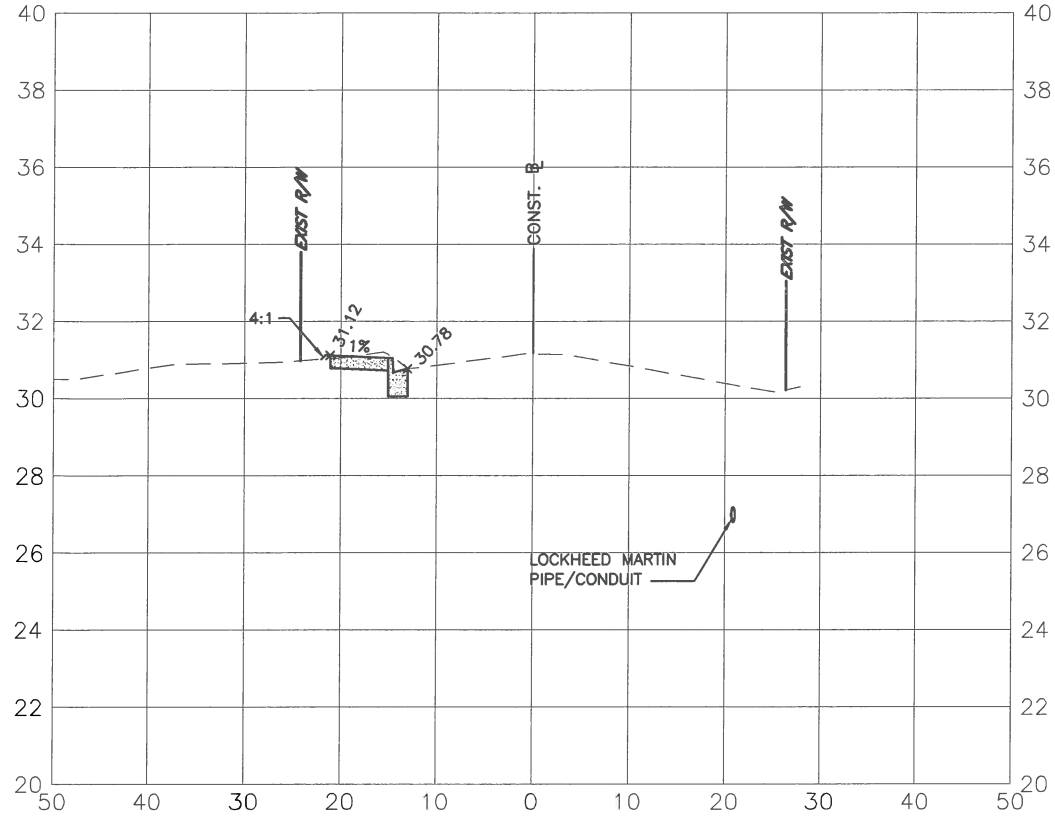
S:\PWD\_Engineering\_Shore\Highway\_Engineering\Sidewalks\Tallevast\_Rd\DWG\REF\_SECTIONS.dwg,21 SEC. 10/09/2015 9:55 AM Thom Forrester, 1:1, ANSI (full bleed B (17.00 x 11.00 inches))

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 62+00 thru Sta. 63+50**

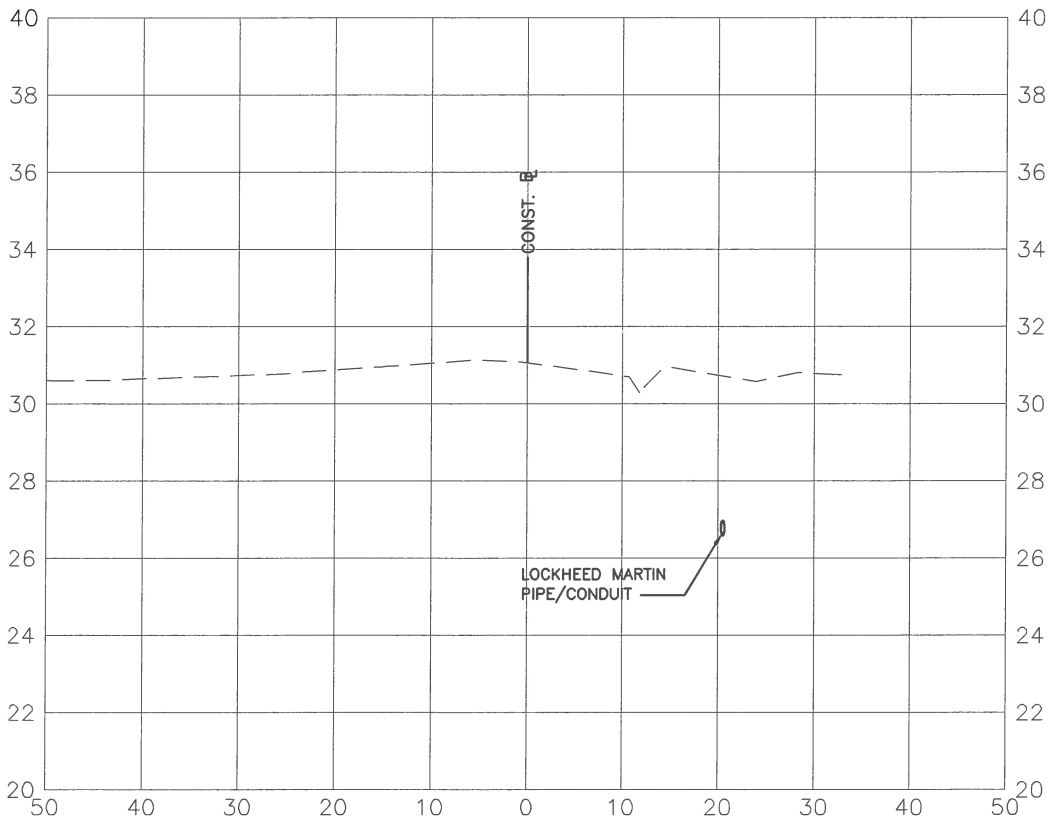
62+00.00



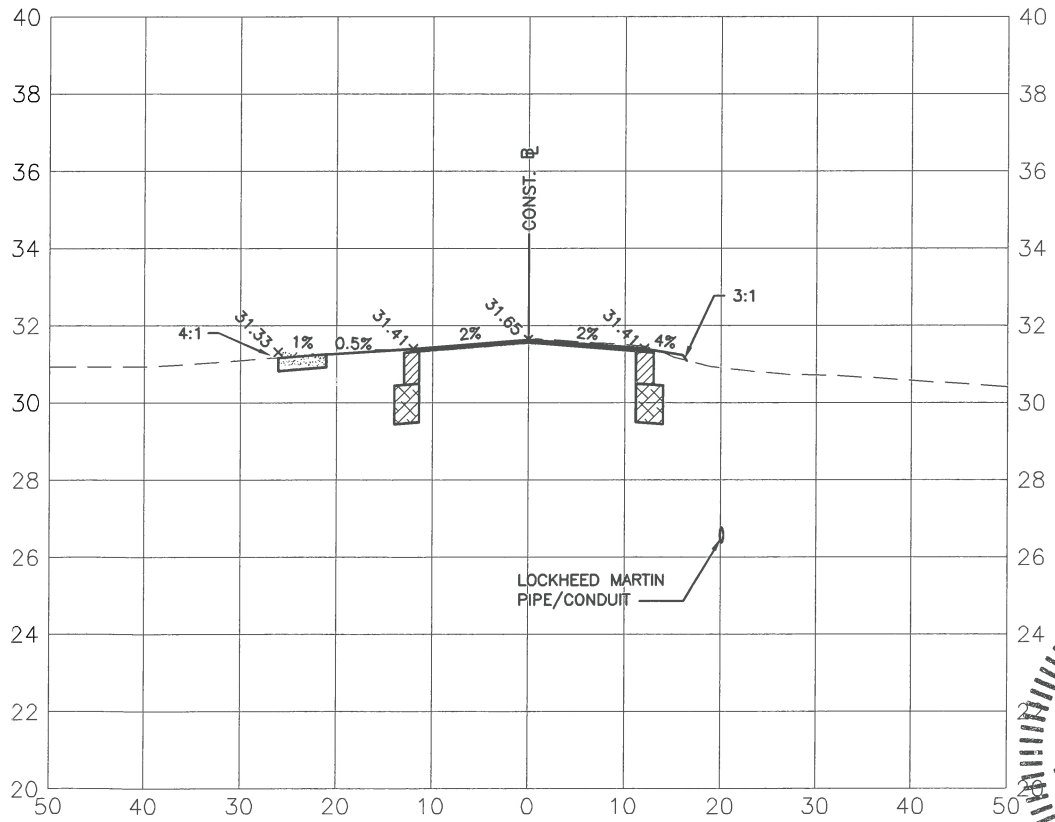
62+50.00



63+00.00



63+50.00

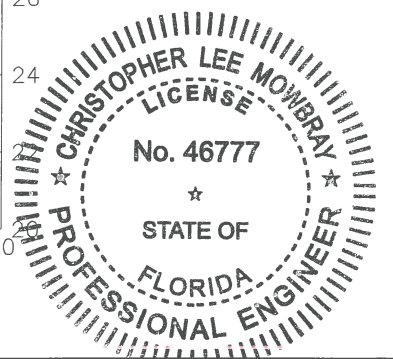


NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777



*Chris L. Mowbray*  
10/12/15  
Signature & Date

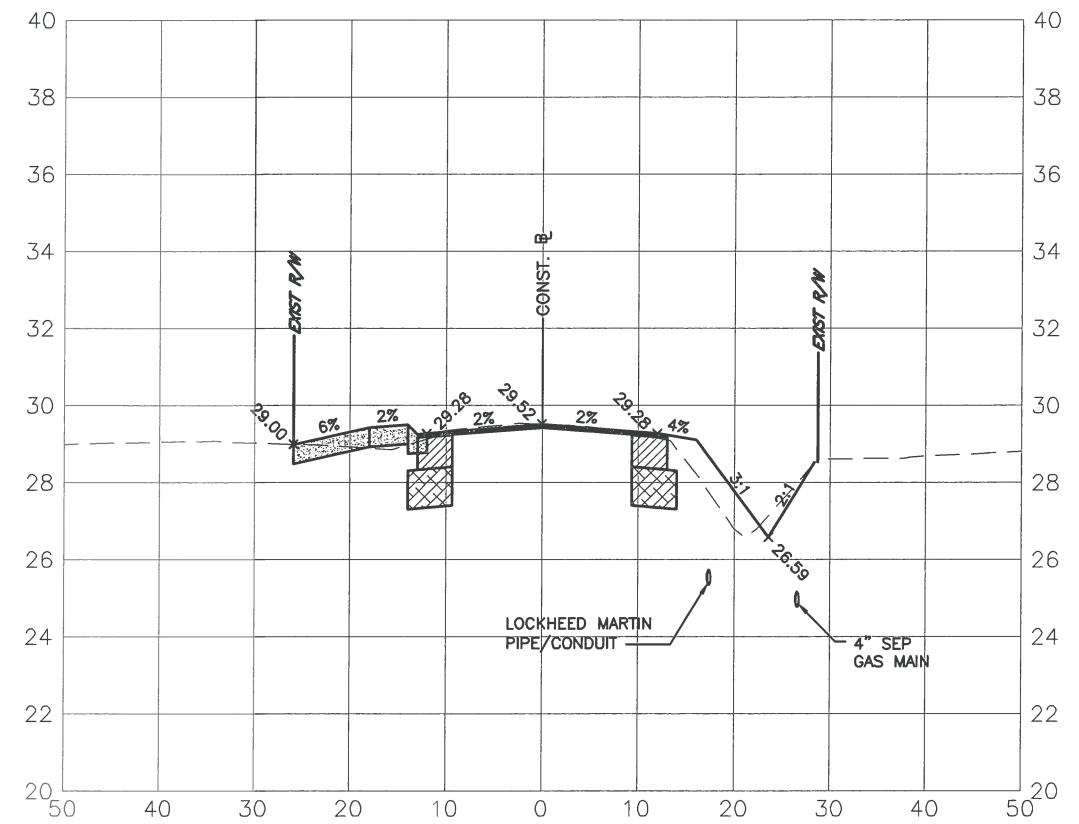
S:\PWL\_Engineering\_Slowa\_Highway\_Engineering\_Slowa\Tallevast\_Road\DWG\AREA\_SECTIONS.dwg, 27 SEC, 10/9/2015 9:56 AM Thom Ferrister, 1:1, ANSI Full bleed B (17.00 x 11.00 inches)



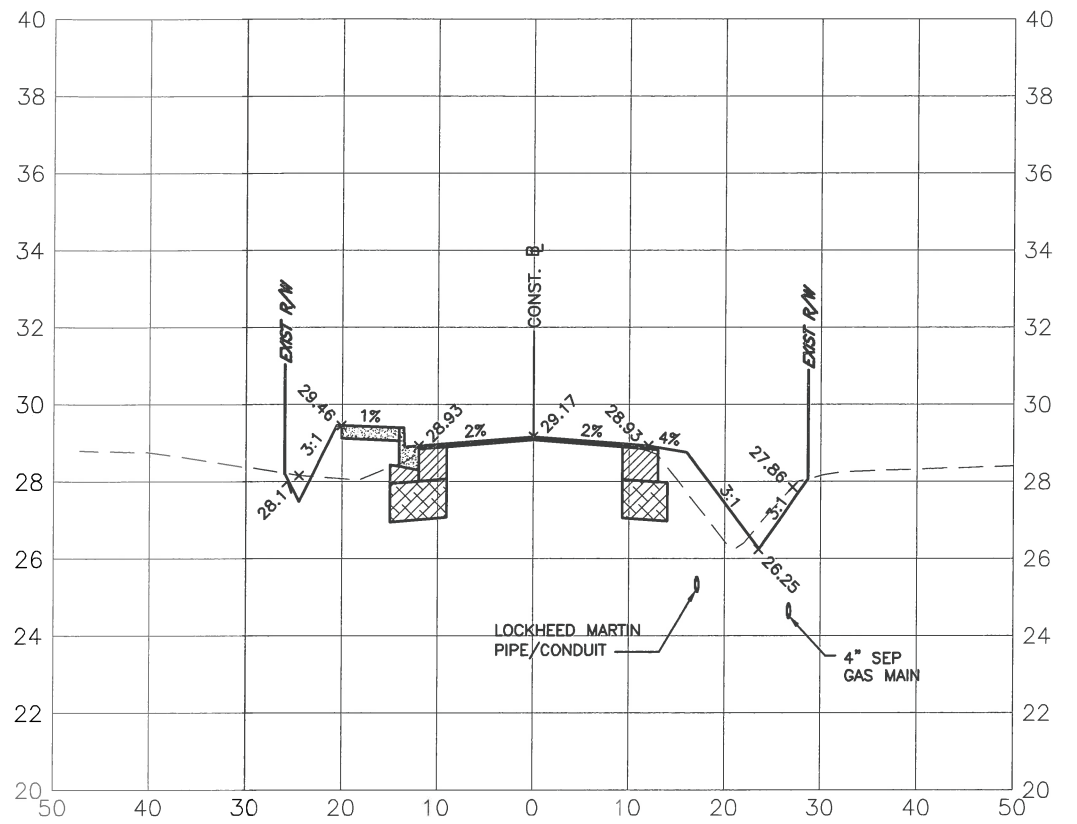


**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 66+00 thru Sta. 67+50**

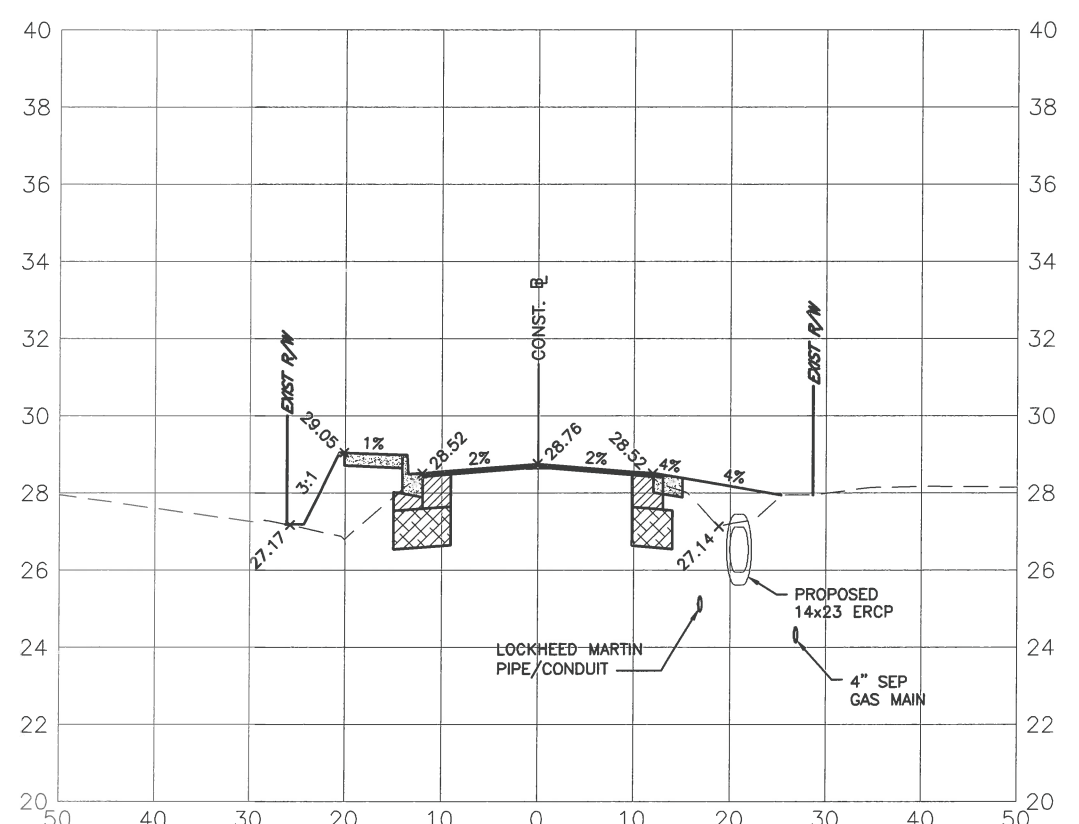
66+00.00



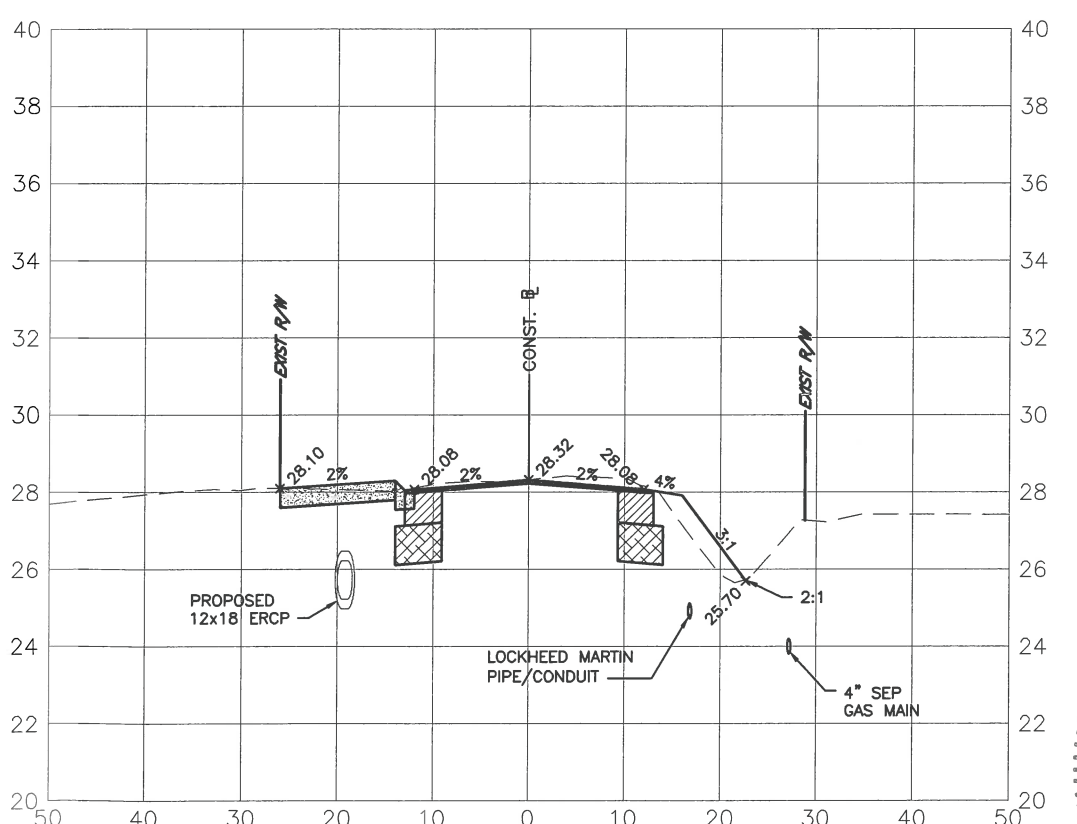
66+50.00



67+00.00



67+50.00

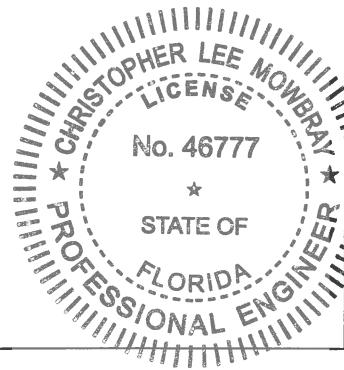


NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

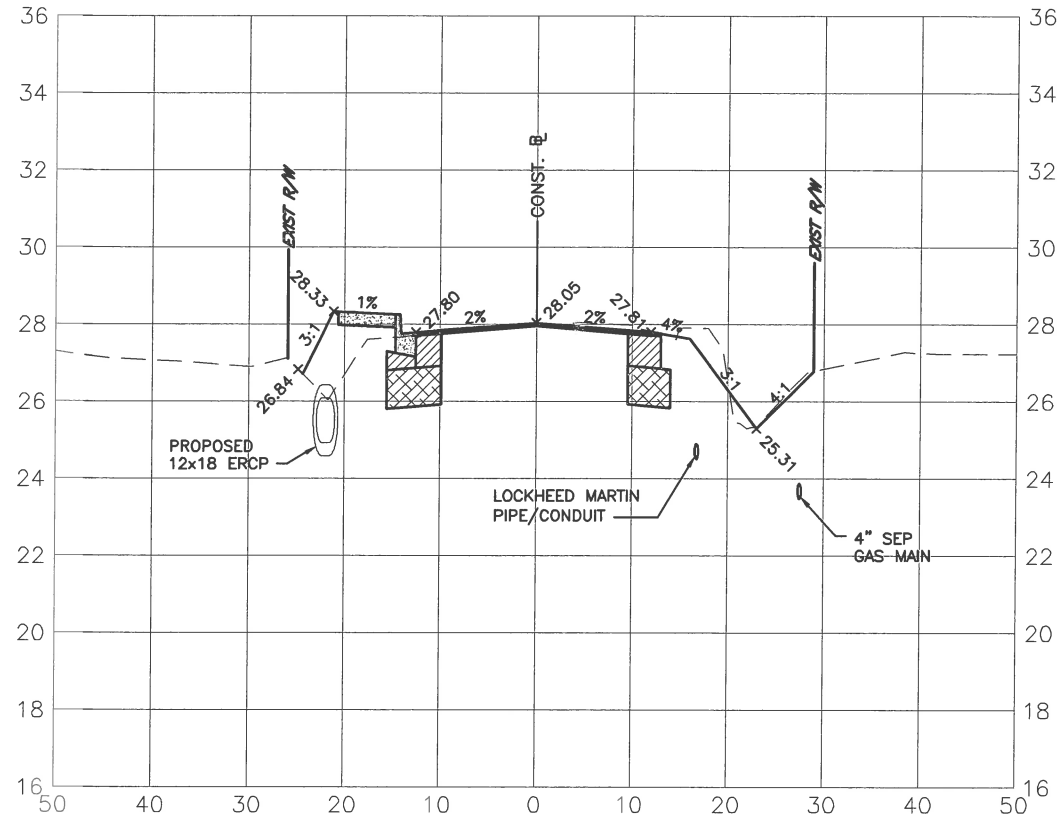


Signature & Date  
*Chris L. Mowbray*  
10/12/15

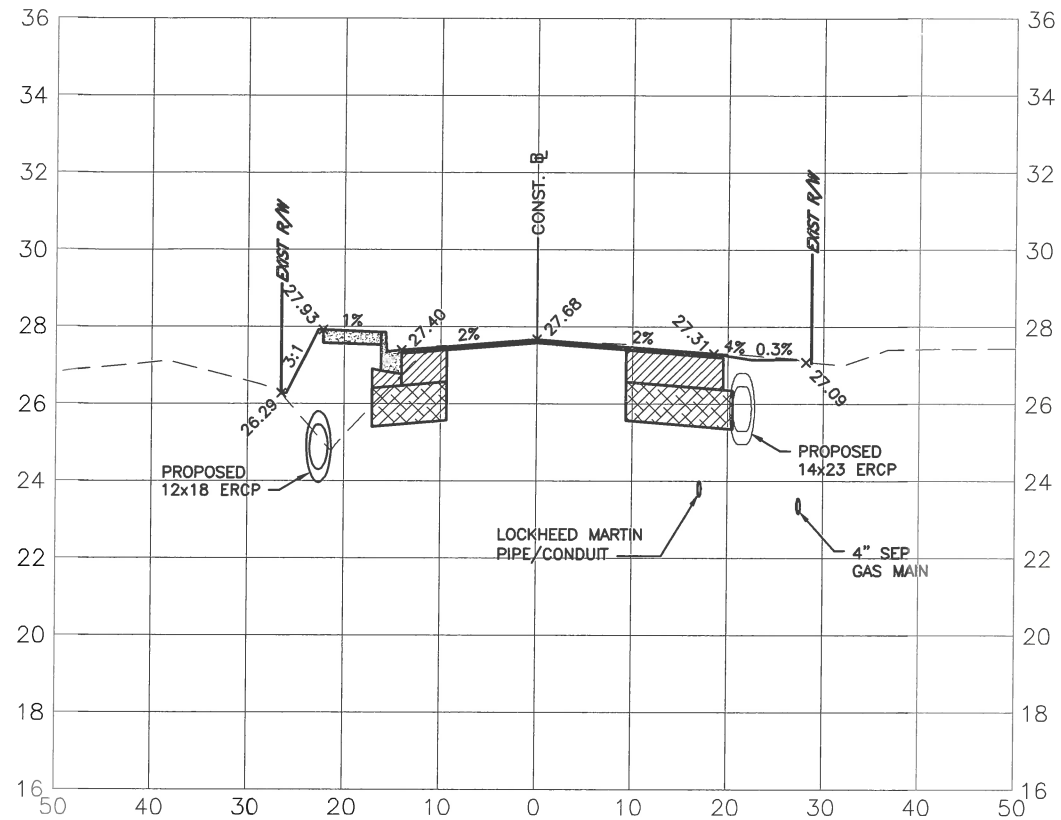
I:\P\W\Engineering\Share Highway Engineering\Sidewalks\Tallevast\_Road\DWG\AREA\SECTIONS.dwg, 24 SEC. 10/9/2015 9:57 AM Thom Hornester, 1:1, ANSI full bleed B (17.00 x 11.00) Inches

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 68+00 thru Sta. 69+50**

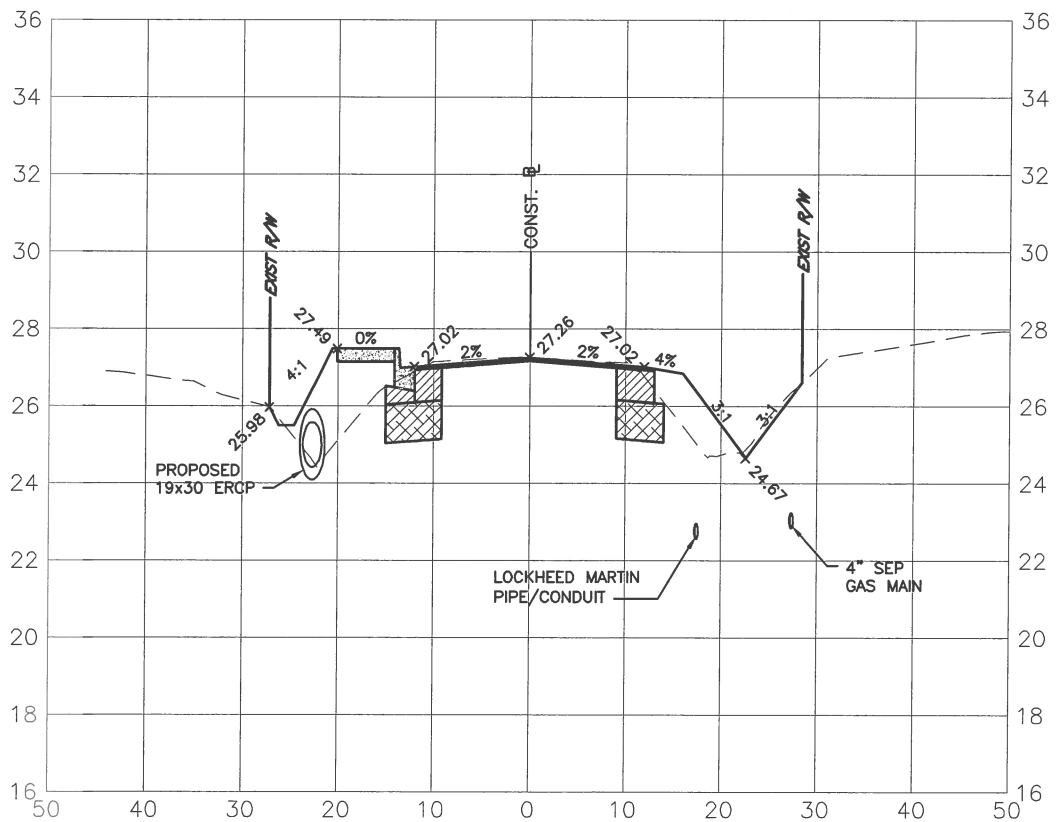
68+00.00



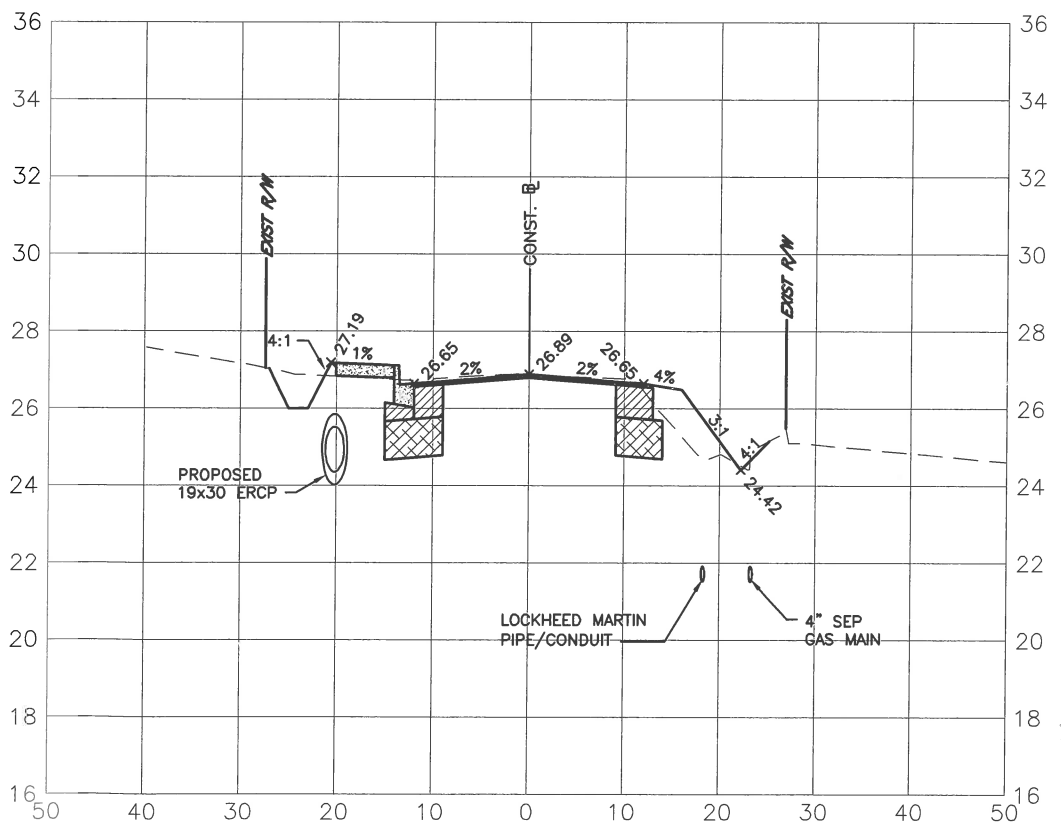
68+50.00



69+00.00



69+50.00



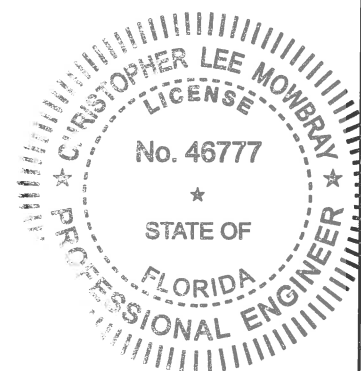
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

*Chris L. Mowbray*  
10/15/15  
Signature & Date



S:\PWD\_Engineering\_Shore\_Village\_Engineering\SideWalks\Tallevast\_Road\DWG\REF\_SECTIONS.dwg,25 SEC. 10/07/2015 9:57 AM Thom Forrester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

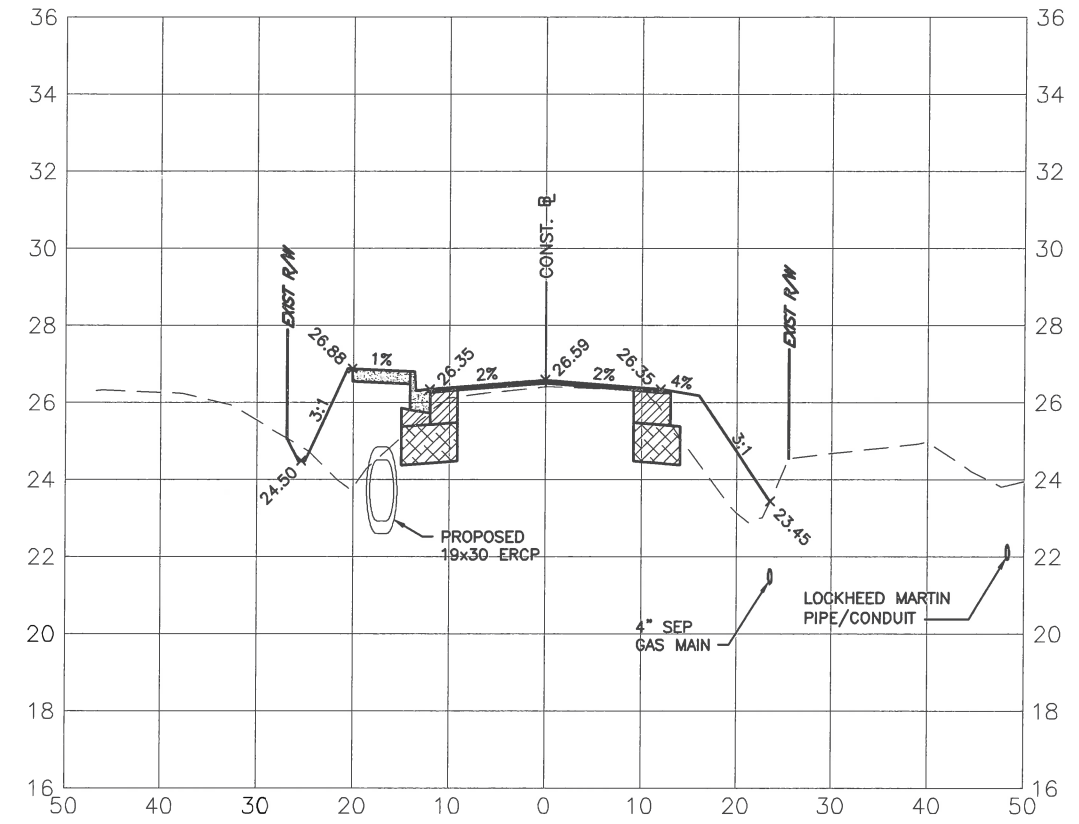




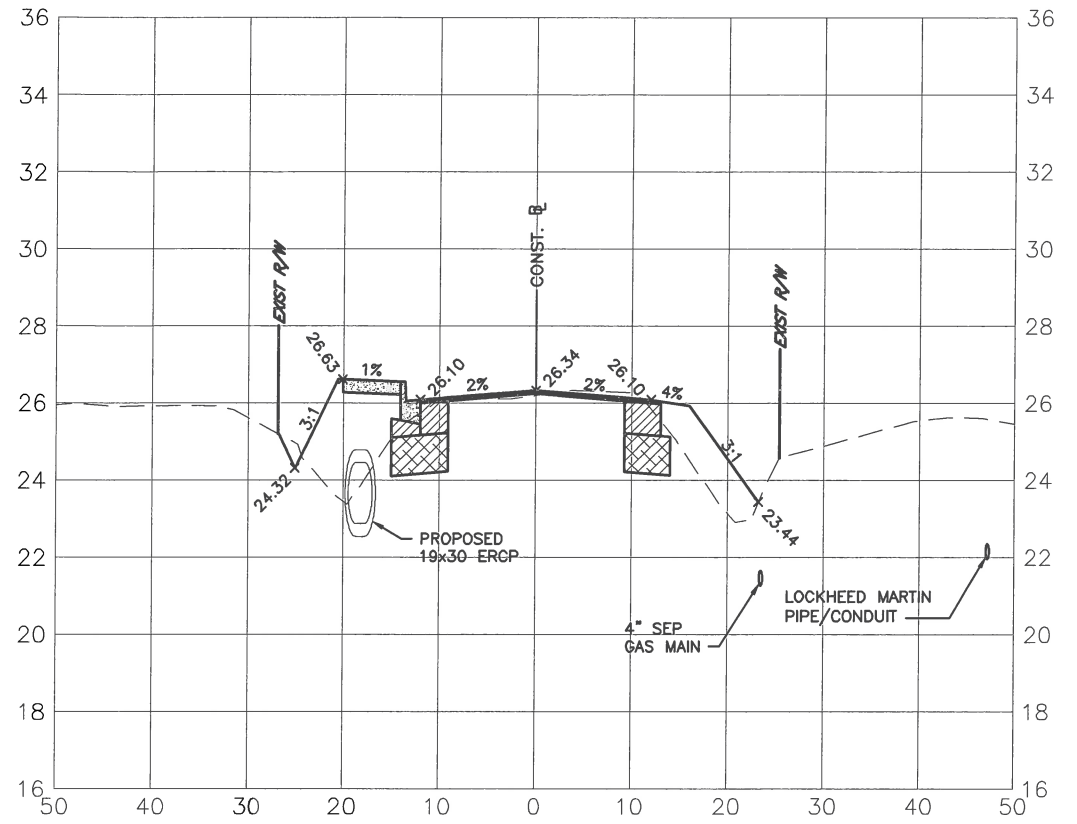


**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 74+00 thru Sta. 75+50**

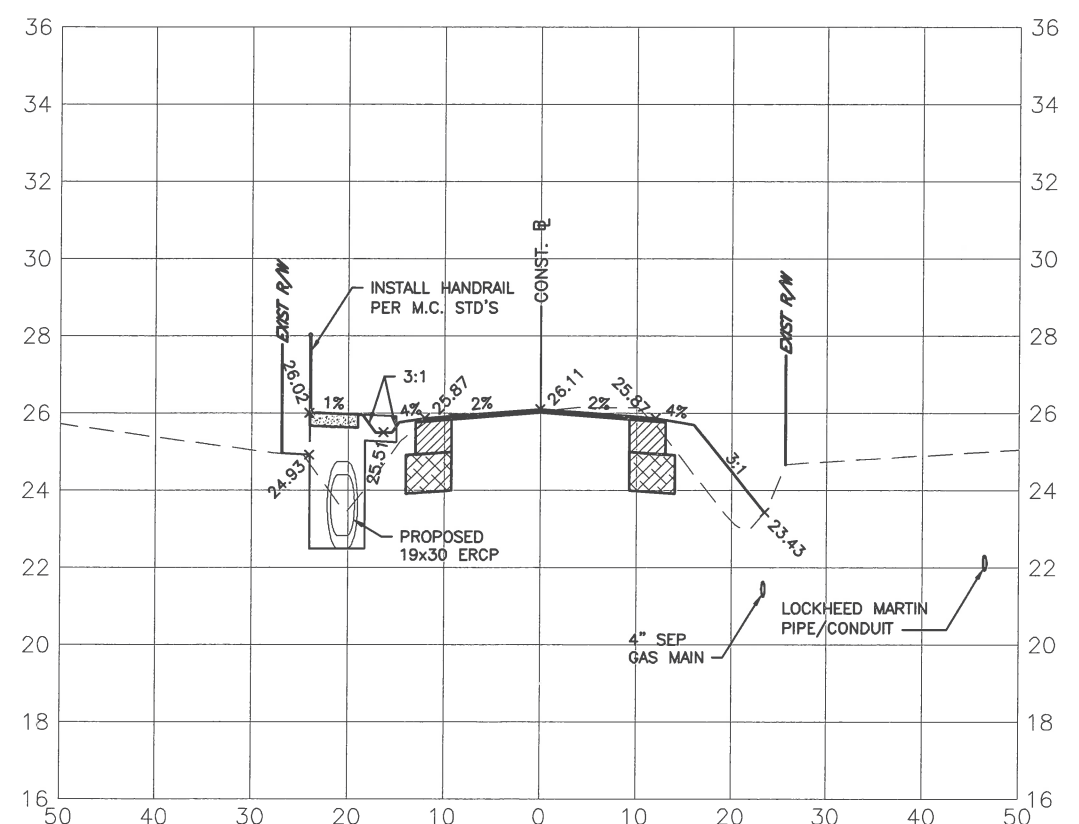
74+00.00



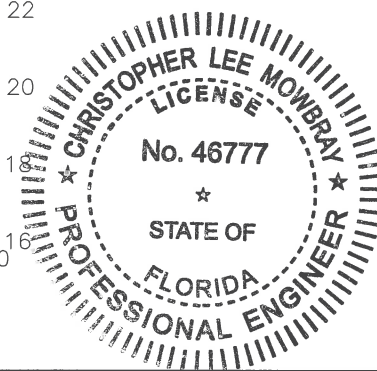
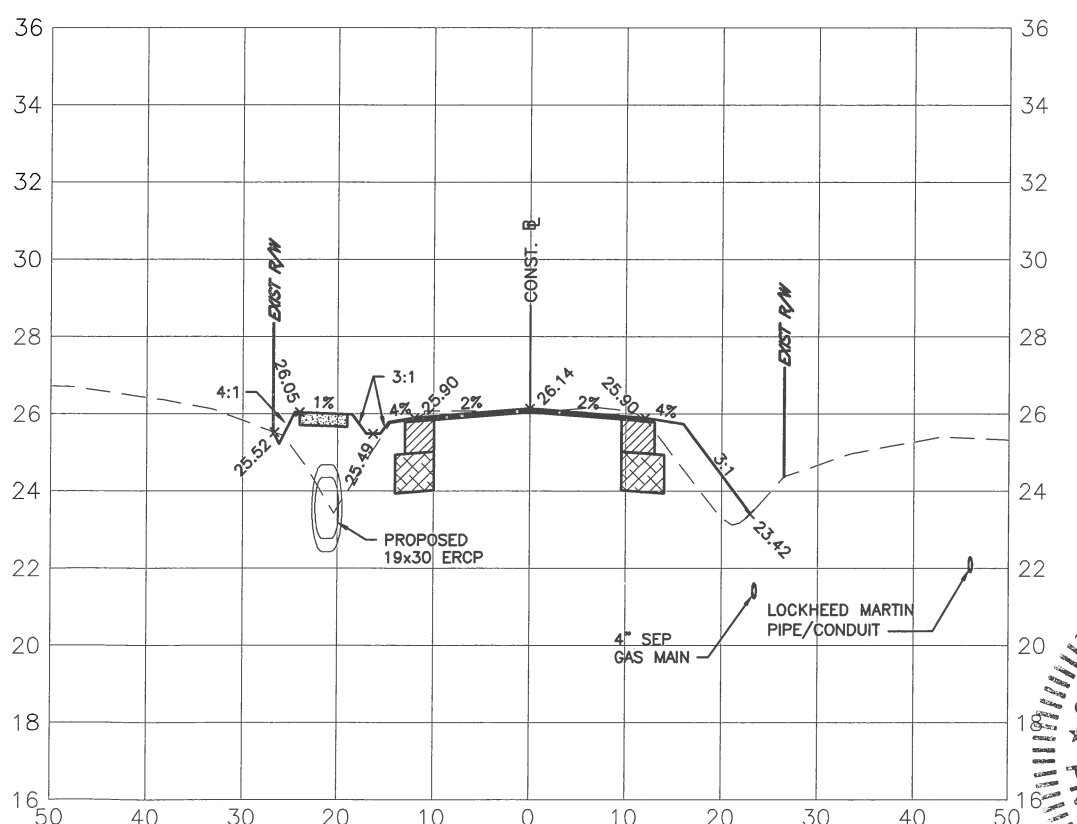
74+50.00



75+00.00



75+50.00



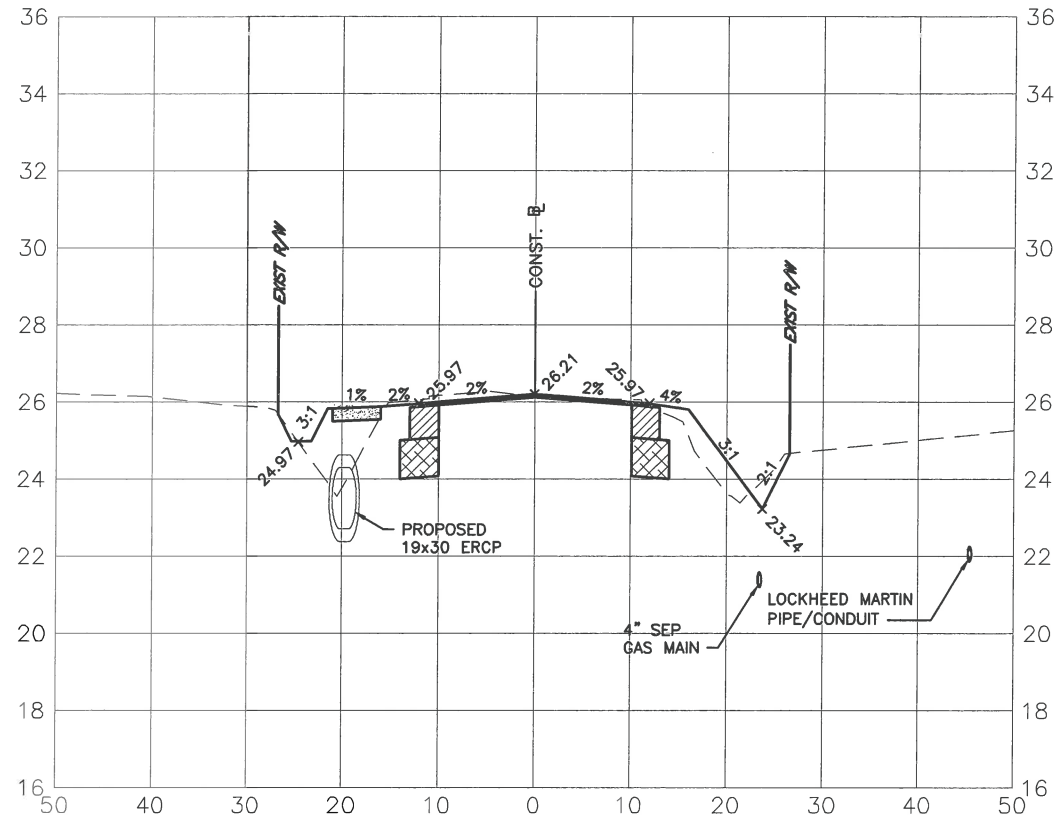
NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	0019900		
SURVEY #	00-43835		
SEC./TWN./RGE	30/31S/18E		
SCALE	V=1:5 H=1:20		
SURVEYED	ZNS	DATE	12/18/14
DESIGNED	AM	DATE	11/06/14
DRAWN	KR	DATE	4/01/15
CHECKED	CM	DATE	4/14/15
CHRIS L. MOWBRAY, P.E.			
FLORIDA P.E. # 46777			
 Signature & Date 10/12/15			
SHEET 28			

S:\P\01\_Engineering\_Series\Highway\_Engineering\SideWalks\Tallevast\_Rd\DWG\CROSS SECTIONS.dwg, 28 SEC. 10/9/2015 9:59 AM Thom Forrester, 1:1, ANSI Full Bleed B (17.00 x 11.00 inches)

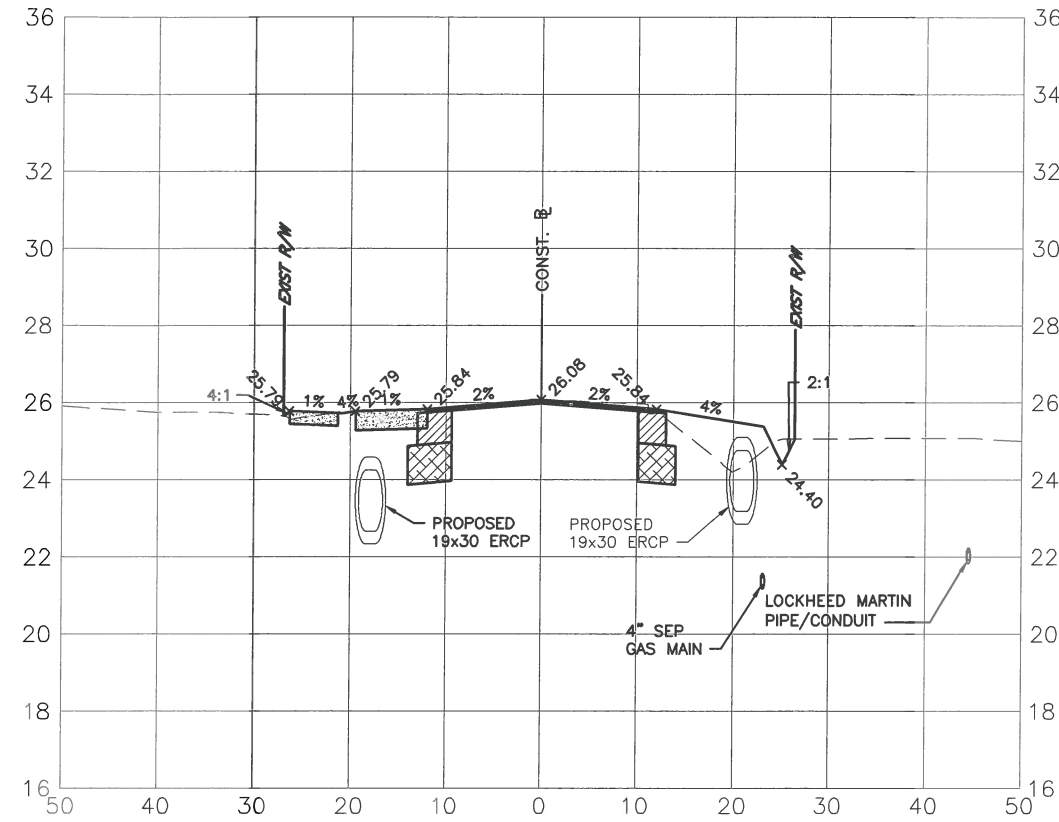


**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTIONS - Sta. 76+00 thru Sta. 77+50**

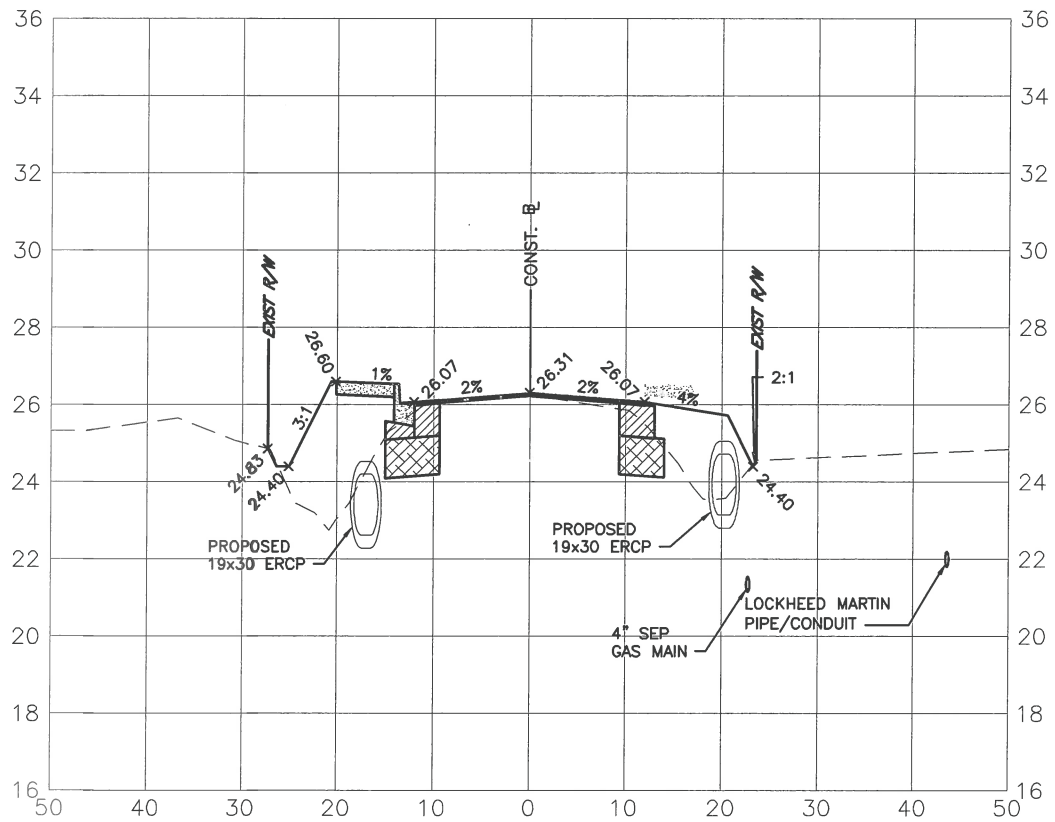
76+00.00



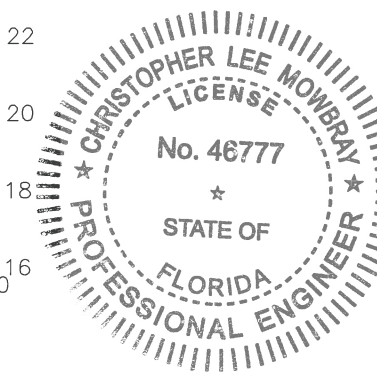
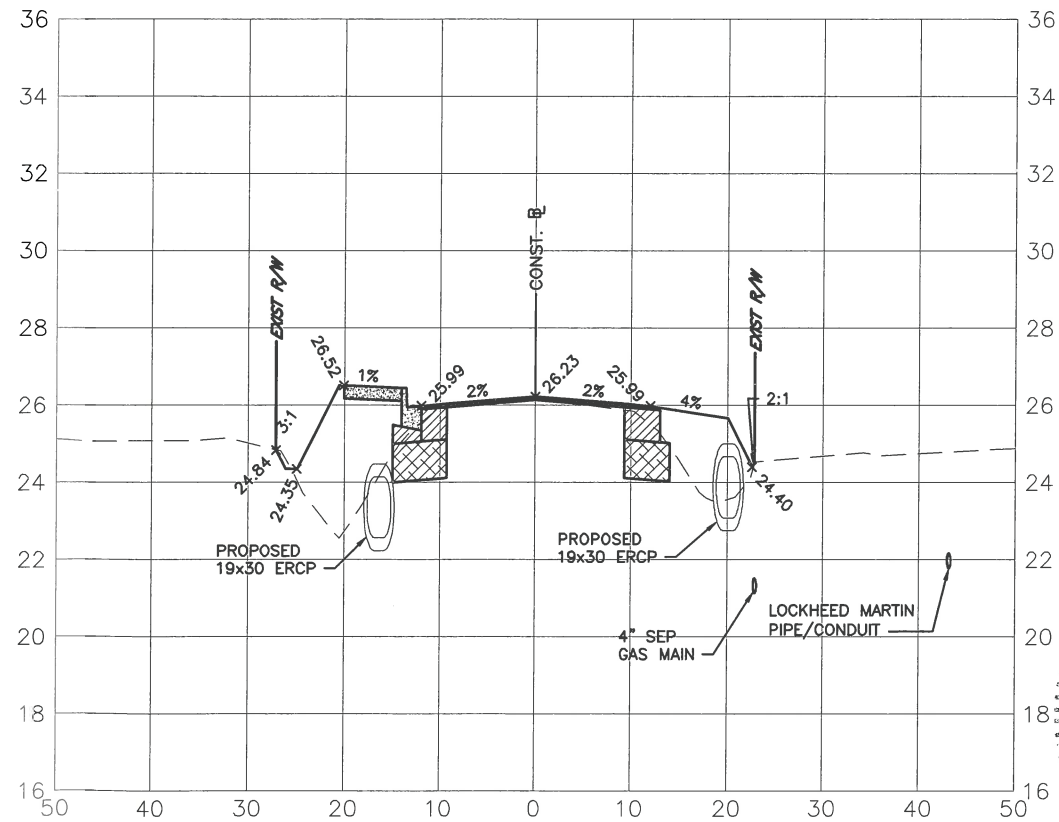
76+50.00



77+00.00



77+50.00



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	4/01/15
CHECKED	CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777  
*Chris Mowbray*  
10/12/15  
Signature & Date

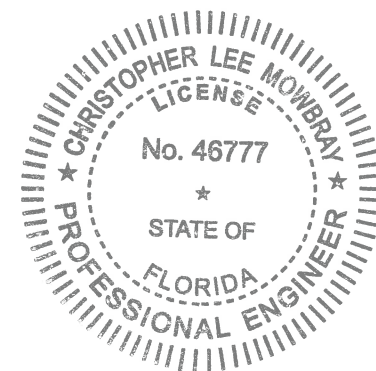
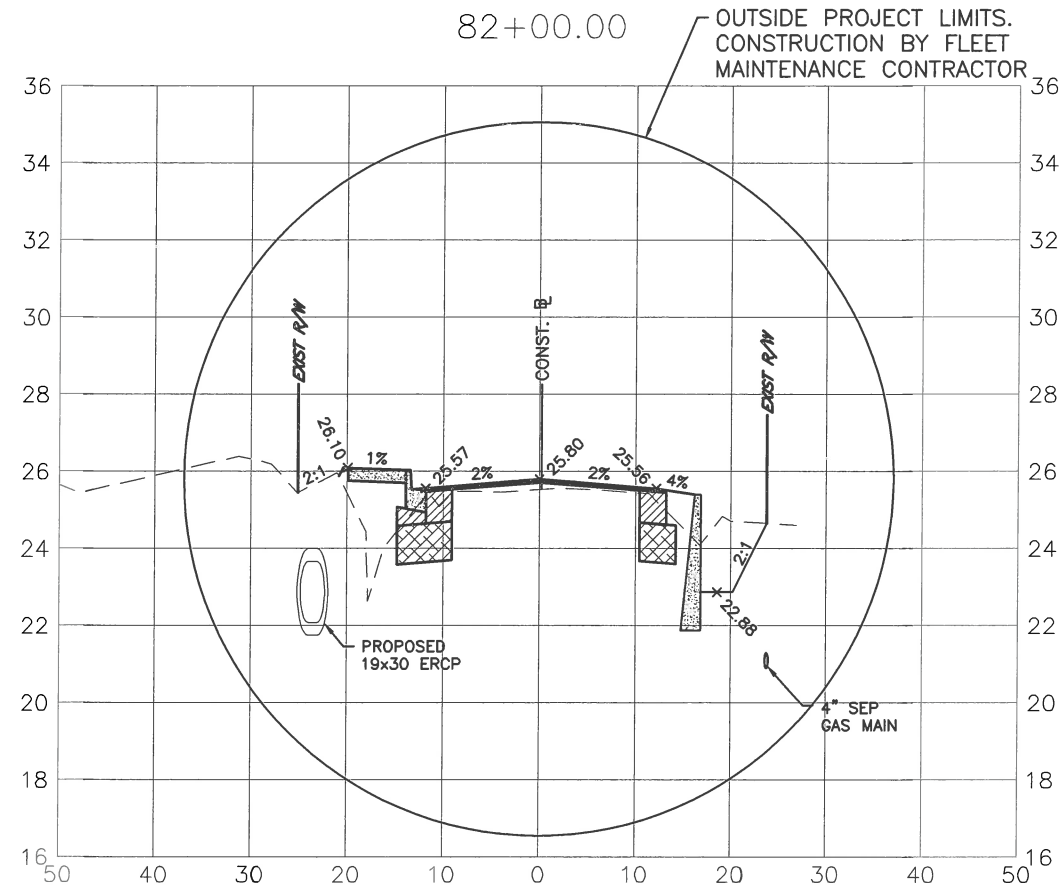
S:\PW\Engineering\Shore Highway Engineering\Sidewalks\Tallevast rd\DWG\REF\SECTIONS.dwg,28 SEC. 10/27/2015 10:00 AM Thom Forrester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)







**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CROSS SECTION - Sta. 82+00**



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	V=1:5 H=1:20
BY	DATE
SURVEYED ZNS	12/18/14
DESIGNED AM	11/06/14
DRAWN KR	4/01/15
CHECKED CM	4/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777  
*Chris L. Mowbray*  
10/27/15  
Signature & Date

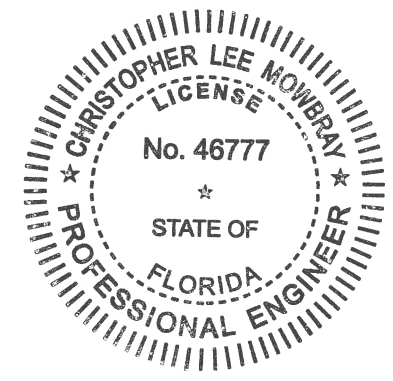
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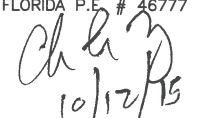


PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
CUT/FILL CALCULATIONS**

STATION	CUT AREA (SF)	FILL AREA (SF)	DIST. (ft)	CUT VOL.(CF)	FILL VOL. (CF)
50+00	0.0	0.0			
50+50	3.7	0.5			
51+00	4.6	1.1	50.00	93	12
51+50	1.9	0.0	50.00	209	40
52+00	4.5	0.6	50.00	163	27
52+50	3.0	0.3	50.00	160	14
53+00	3.8	0.0	50.00	189	22
53+50	4.3	0.0	50.00	172	8
54+00	4.0	0.0	50.00	204	0
54+50	3.3	0.4	50.00	207	0
55+00	3.2	0.0	50.00	182	10
55+50	4.4	0.0	50.00	164	10
56+00	3.2	0.2	50.00	190	0
56+50	7.9	0.2	50.00	189	4
57+00	4.8	0.7	50.00	276	8
57+50	2.7	0.4	50.00	318	20
58+00	2.5	1.1	50.00	186	25
58+50	0.0	0.0	50.00	129	37
59+00	0.0	0.2	50.00	63	28
59+50	10.4	0.0	50.00	0	4
60+00	3.9	0.1	50.00	259	4
60+50	3.1	0.2	50.00	355	1
61+00	3.9	0.1	50.00	174	7
61+50	3.4	0.2	50.00	175	8
62+00	5.5	0.0	50.00	182	6
62+50	4.0	0.1	50.00	221	4
63+00	0.0	0.0	50.00	237	2
63+50	12.4	0.3	50.00	100	2
64+00	0.4	4.0	50.00	310	9
64+50	24.1	0.7	50.00	320	108
65+00	26.1	2.5	50.00	611	116
65+50	23.0	1.7	50.00	1253	79
66+00	21.3	7.2	50.00	1227	104
66+50	22.0	15.6	50.00	1106	222
67+00	18.1	16.0	50.00	1082	570
67+50	25.4	5.1	50.00	1003	790
68+00	0.0	9.5	50.00	1088	526
68+50	0.0	18.5	50.00	636	363
69+00	21.8	24.4	50.00	0	699
69+50	25.7	7.1	50.00	545	1072
70+00	30.8	11.3	50.00	1188	787
70+50	21.3	27.7	50.00	1411	461
71+00	21.4	8.9	50.00	1301	975
71+50	27.0	12.3	50.00	1066	914
72+00	18.3	31.0	50.00	1210	530
72+50	16.7	35.1	50.00	1132	1083
73+00	17.6	30.3	50.00	875	1654
73+50	19.7	30.8	50.00	857	1634
74+00	18.6	30.8	50.00	931	1525
74+50	20.7	29.8	50.00	956	1538
75+00	23.6	14.1	50.00	981	1513
75+50	17.4	22.0	50.00	1108	1097
76+00	18.1	14.3	50.00	1026	903
76+50	21.4	8.9	50.00	888	908
77+00	15.4	40.3	50.00	988	579
77+50	0.0	39.6	50.00	920	1228
78+00	17.3	38.0	50.00	385	1996
78+50	14.0	33.0	50.00	432	1940
79+00	17.8	34.6	50.00	781	1775
79+50	23.5	18.3	50.00	794	1691
80+00	0.0	23.6	50.00	1033	1323
80+50	23.0	22.0	50.00	588	1047
81+00	28.6	18.0	50.00	574	1140
81+50	28.5	8.9	50.00	1290	1001
82+00	0.0	0.0	50.00	1428	672
<b>SUBTOTAL VOLUMES (CF)</b>				<b>38,121</b>	<b>34,875</b>
<b>SUBTOTAL VOLUMES (CY)</b>				<b>1,411.88</b>	<b>1,291.66</b>

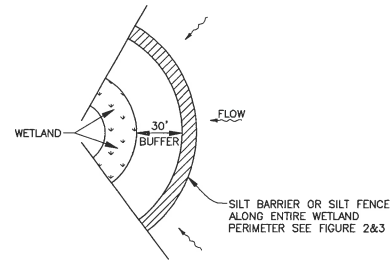


NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	0019900		
SURVEY #	00-43835		
SEC./TWN./RGE	30/31S/18E		
SCALE	AS NOTED		
	BY	DATE	
SURVEYED	ZNS	12/18/14	
DESIGNED	AM	11/06/14	
DRAWN	KR	4/01/15	
CHECKED	CM	4/14/15	
CHRIS L. MOWBRAY, P.E.			
FLORIDA P.E. # 46777			
 Signature & Date			
<b>SHEET 33</b>			

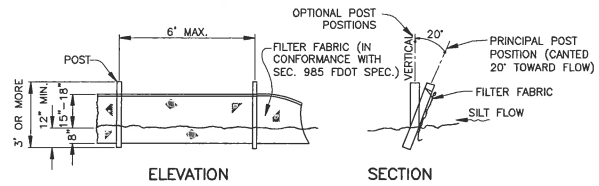
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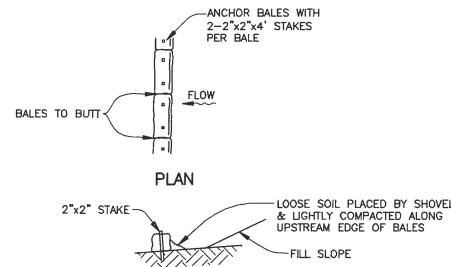


**WETLAND BUFFER**  
FIGURE 1

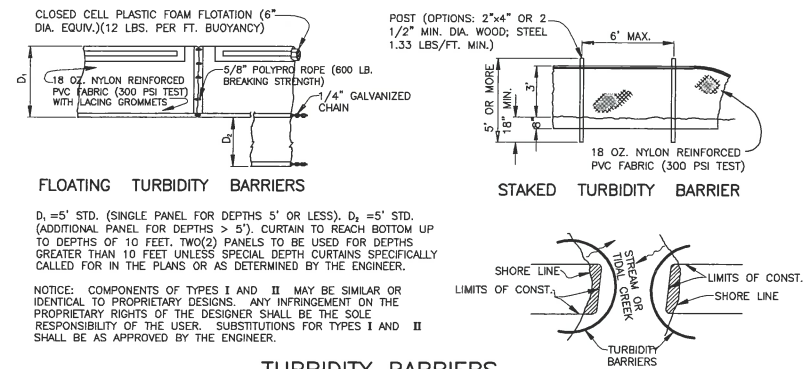


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

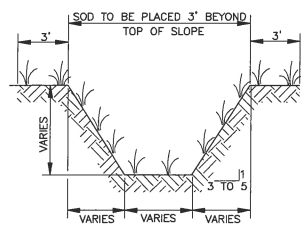
**TYPICAL SILT FENCE**  
FIGURE 2



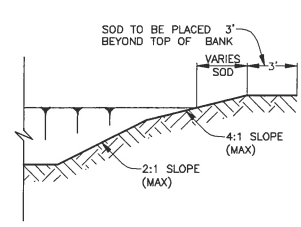
**TYPICAL BALE SILT BARRIER**  
FIGURE 3



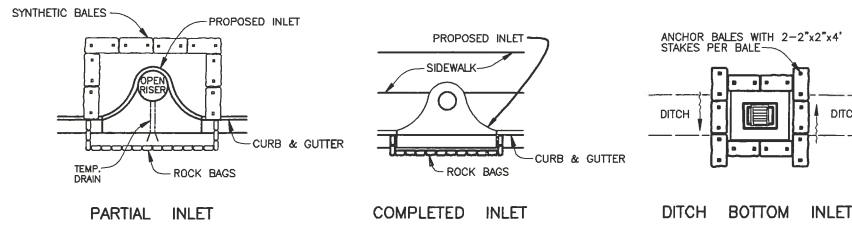
**TURBIDITY BARRIERS**  
FIGURE 4



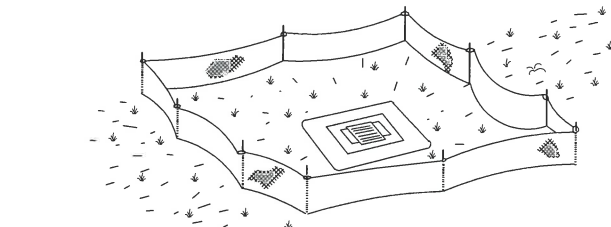
**TYPICAL SWALE SECTION**  
FIGURE 5



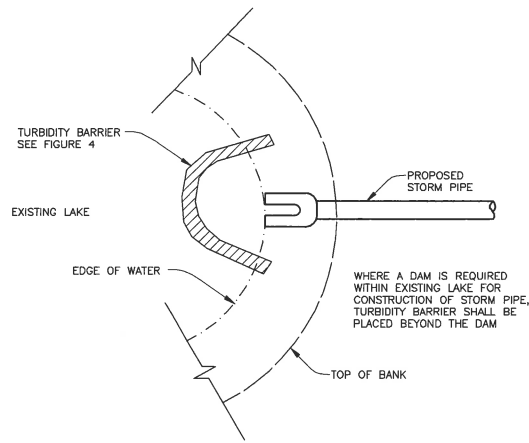
**TYPICAL RETENTION/DETENTION POND SECTION**  
FIGURE 6



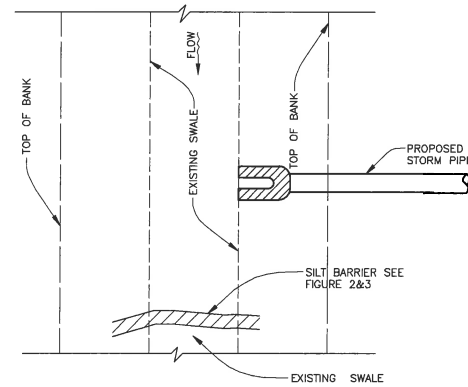
**SYNTHETIC BALE PROTECTION AROUND  
INLETS OR SIMILAR STRUCTURES**  
FIGURE 7



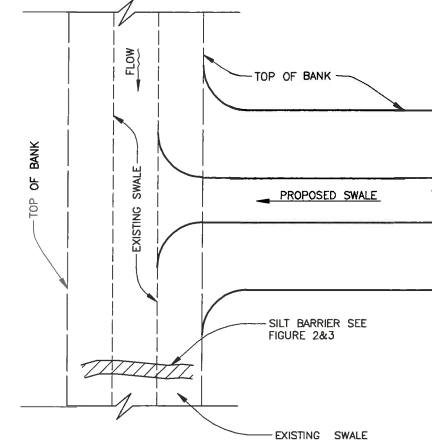
**TYPE III SILT FENCE PROTECTION  
AROUND DITCH BOTTOM INLETS**  
**STAKED SILT BARRIER OR SILT FENCE  
PROTECTION AROUND DITCH BOTTOM INLETS**  
FIGURE 8



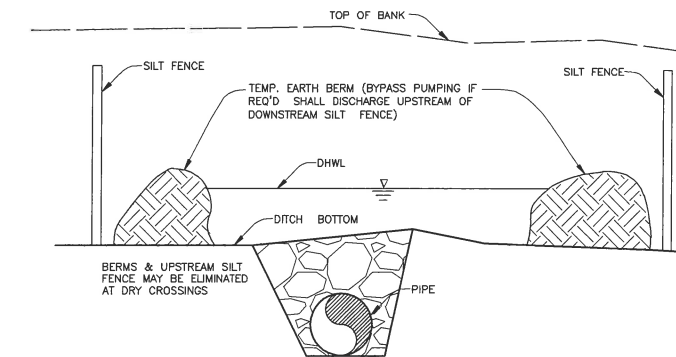
**TURBIDITY BARRIER AT CONNECTION OF  
STORM PIPE TO EXISTING LAKE**  
FIGURE 9



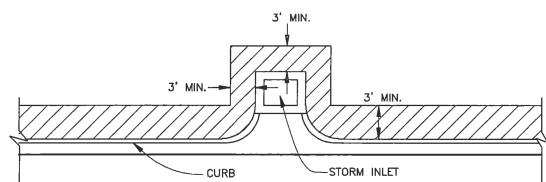
**SILT BARRIER AT CONNECTION OF  
STORM PIPE TO EXISTING SWALE**  
FIGURE 10



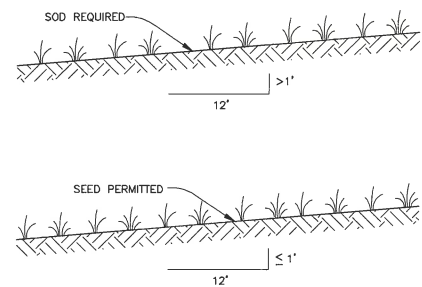
**SILT BARRIER AT CONNECTION  
OF SWALE TO EXISTING SWALE**  
FIGURE 11



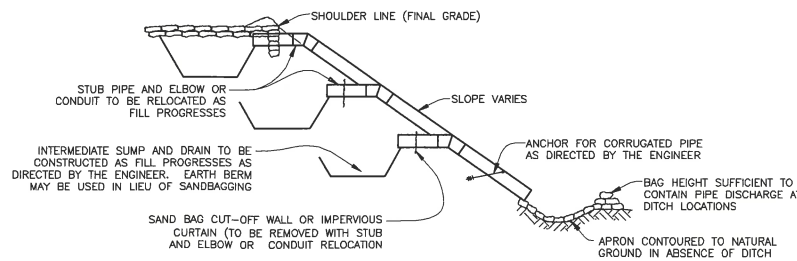
**UNDERGROUND PIPE CROSSING**  
FIGURE 12



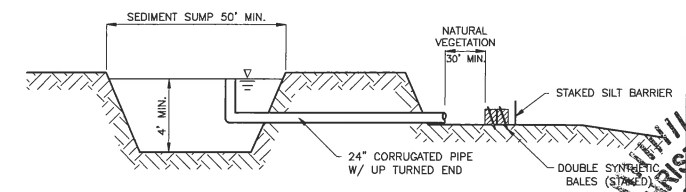
**SOD ALONG CURB  
AND AROUND INLET**  
FIGURE 14



**GRASS SLOPES**  
FIGURE 13



**SECTION AA  
TEMPORARY SLOPE DRAIN**  
FIGURE 15



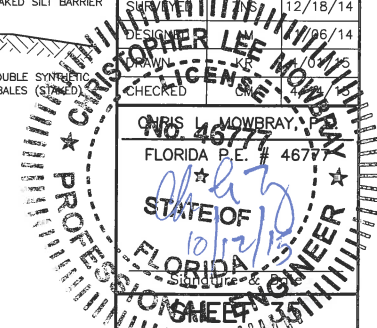
**SEDIMENT SUMP SECTION**  
FIGURE 16

NOTE:  
REFERENCE THE FDOT DESIGN STANDARDS  
LATEST EDITION FOR ALL TEMPORARY  
EROSION CONTROL MEASURES.

NO.	REVISION DESCRIPTION	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

BY	DATE







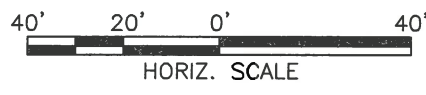
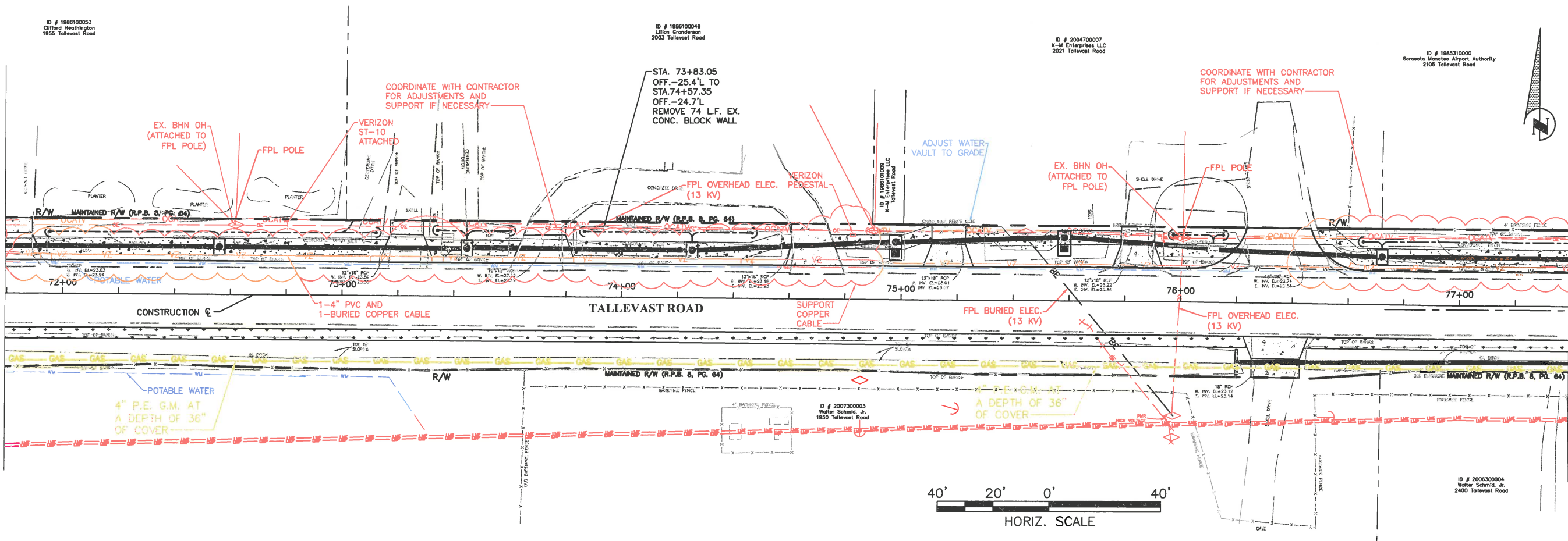




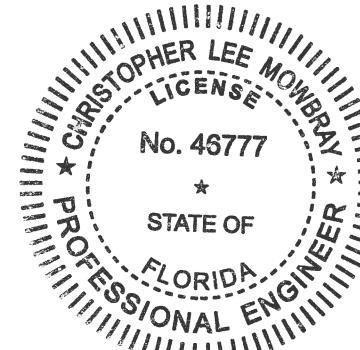
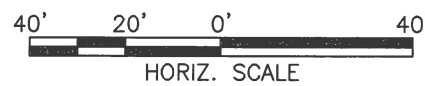
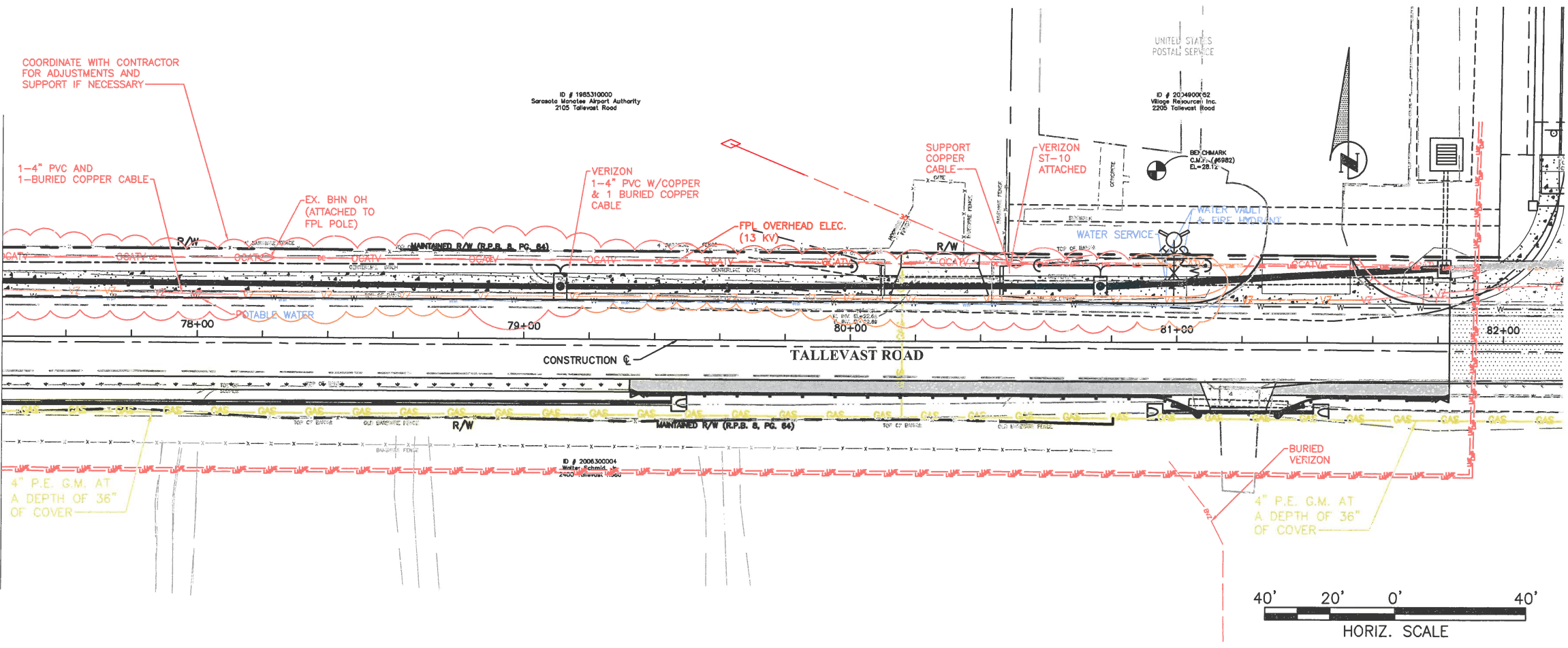
**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
UTILITY ADJUSTMENTS STA. 71+80 TO 83+00**

MATCH LINE STA. 71+80

MATCH LINE STA. 77+40



MATCH LINE STA. 77+40



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	001-9900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTES
BY	DATE
SURVEYED	ZNS 12/18/14
DESIGNED	AM 11/06/14
DRAWN	KR 04/01/15
CHECKED	CM 04/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777  
*Chris L. Mowbray*  
10/12/15  
Signature & Date

**SHEET 38**

S:\P\10\_Engineering - Shore Highway Engineering\Stalewicz\Tallevast Rd.DWG\Tallevast.DWG Plan Set.dwg, UAS\_38\_10/9/2015 10:14 AM Thom Forrester, I.T., ANSI LUT bleed B (17.00 x 11.00 inches)

# Manatee County FLORIDA

## TALLEVAST ROAD SIDEWALK FROM 15TH ST. E. TO POST OFFICE

TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
COVER SHEET

SEPTEMBER 2015

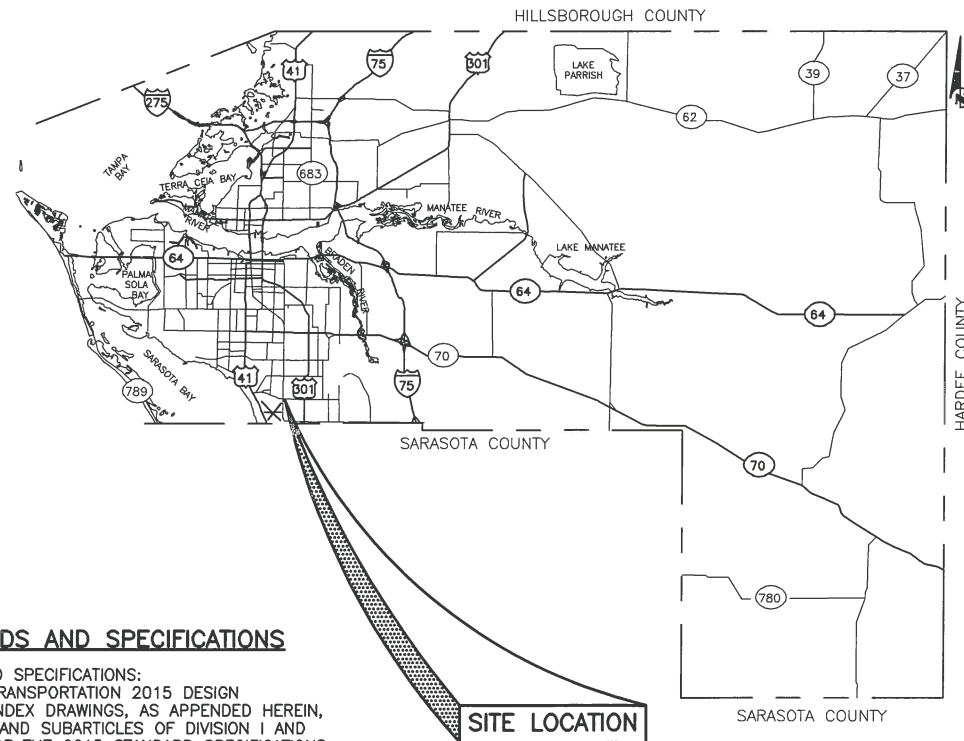
### BID SET SIGNING & PAVEMENT MARKING PLANS

NO.	INDEX OF SHEETS
S1	COVER SHEET
S2	GENERAL NOTES
S3-S5	SIGNING & PAVEMENT MARKING PLANS



VICINITY MAP  
N.T.S.

PROJECT SITE



SITE LOCATION

#### RELATED STANDARDS AND SPECIFICATIONS

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION 2015 DESIGN STANDARDS AND REVISED INDEX DRAWINGS, AS APPENDED HEREIN, AND APPLICABLE ARTICLES AND SUBARTICLES OF DIVISION I AND ALL OF DIVISIONS II & III OF THE 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

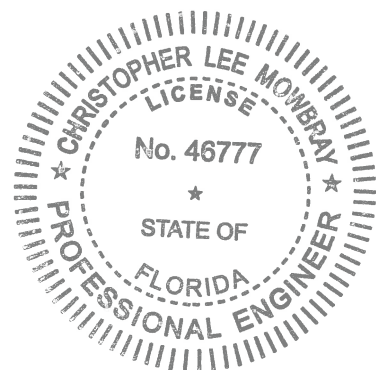
FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEB SITE:  
[HTTP://WWW.DOT.STATE.FL.US/RDDesign/](http://www.dot.state.fl.us/RDDesign/)

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE:  
[HTTP://WWW.DOT.STATE.FL.US/SPECIFICATIONSOFFICE/](http://www.dot.state.fl.us/specificationsoffice/)

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:  
CHRIS MOWBRAY P.E.  
1022 26TH AVENUE EAST BRADENTON FLORIDA 34208

#### PROJECT DESCRIPTION

PROJECT CONSISTS OF INSTALLING CEMENT CONCRETE SIDEWALK ON THE NORTH SIDE OF TALLEVAST ROAD FROM 15TH STREET E. TO THE POST OFFICE. WIDENING TALLEVAST ROAD FROM 10 FOOT LANES TO 12 FOOT LANES FROM THE RAILROAD TRACKS TO THE POST OFFICE.



Know what's below  
Call before you dig

NO.	DATE	BY	REVISION DESCRIPTION

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED
BY	DATE
SURVEYED	ZNS 12/18/14
DESIGNED	AM 11/06/14
DRAWN	KR 04/01/15
CHECKED	CM 04/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777  
*Chris Mowbray*  
10/12/15  
Signature & Date

S:\V\W\Engineering\Shara Highway Engineering\Sidewalks\Tallevast\Tallevast Sidewalk.dwg, Cover, 10/9/2015 8:13 AM Thom Forrester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



**GENERAL NOTES**

1. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2015), AND FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (DATED 2015), AND THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION.
2. PAVEMENT MARKING SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX.
3. PAVEMENT MARKING DIRECTIONAL ARROWS SHALL BE SPACED AS PER FDOT DESIGN STANDARD INDEX NO. 17346.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
5. REFER TO FDOT DESIGN STANDARD INDEX NO. 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
6. ALL PERMANENT PAVEMENT MARKINGS PLACED WITHIN THE MANATEE COUNTY RIGHT OF WAY SHALL BE THERMOPLASTIC EXCEPT WHEN OTHERWISE NOTED IN PLANS WHERE PAINT IS SPECIFIED.
7. ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE CERTIFIED LEAD FREE.
8. TEMPORARY PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED PRIOR TO OPENING LANES TO TRAFFIC. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX.
9. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED USING AN EDCO TLR-7 GRINDER OR EQUAL. NO SCAR RESULTING FROM THE MARKING REMOVAL SHALL BE DEEPER THAN 1/4" AS MEASURED FROM THE SURROUNDING SURFACE TO THE LOWEST POINT IN THE REMOVED AREA. HYDROBLASTING IS NOT ALLOWED.
10. ALL PAVEMENT MARKINGS SHALL MEET THE CRITERIA SPECIFIED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2015 EDITION.
11. ALL SIGNS SHALL BE INSTALLED ACCORDING TO THE LATEST FDOT DESIGN STANDARDS INDEX AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2014 EDITION.
12. SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
13. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION.
14. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
15. CONTRACTOR SHALL USE U-SHAPED STEEL POSTS FOR MULTI-POST SIGNS. ALL COLUMNS (POSTS) FOR SINGLE COLUMN GROUND SIGNS SHALL BE ALUMINUM ROUND TUBE.
16. ALL SINGLE POST AND MULTI-POST SIGNS WITHIN THE LIMITS OF THE PROJECT SHALL BE REMOVED UNLESS OTHERWISE SHOWN IN THE PLANS. REMOVAL INCLUDES REMOVING FOUNDATIONS AND BACKFILLING THE HOLES LEFT AFTER REMOVAL.
17. STREET SIGN SIGN SHOP DRAWING ARE TO BE REV BY EOR AND MC PRIOR TO INSTALLATION
18. ANY SIGN MOUNTED OVER A SIDEWALK SHALL HAVE A STANDARD VERTICAL CLEARANCE OF 8 FEET.
19. STREET NAME SIGNS THAT ARE NOT SHOWN IN THE GUIDE SIGN WORK SHEET SECTION OF THE PLANS SHALL BE AS PER MANATEE COUNTY DESIGN REQUIREMENTS.

20. SIGNS THAT ARE EMBEDDED IN ASPHALT/CONCRETE SHALL BE INSTALLED IN PIPE SLEEVES.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL SIGNS THAT ARE TO BE PERMANENTLY REMOVED IN THIS PROJECT.
22. THE CONTRACTOR SHALL APPLY THERMOPLASTIC AS THE FINAL TRAFFIC STRIPES AND MARKINGS A MINIMUM OF 14 DAYS AFTER THE FIRST APPLICATION OF PAINT, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.



PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
GENERAL NOTES**

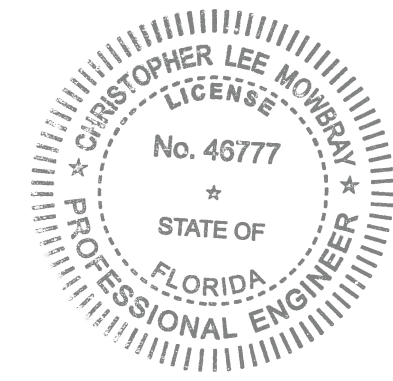
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	04/01/15
CHECKED	CM	04/14/15

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

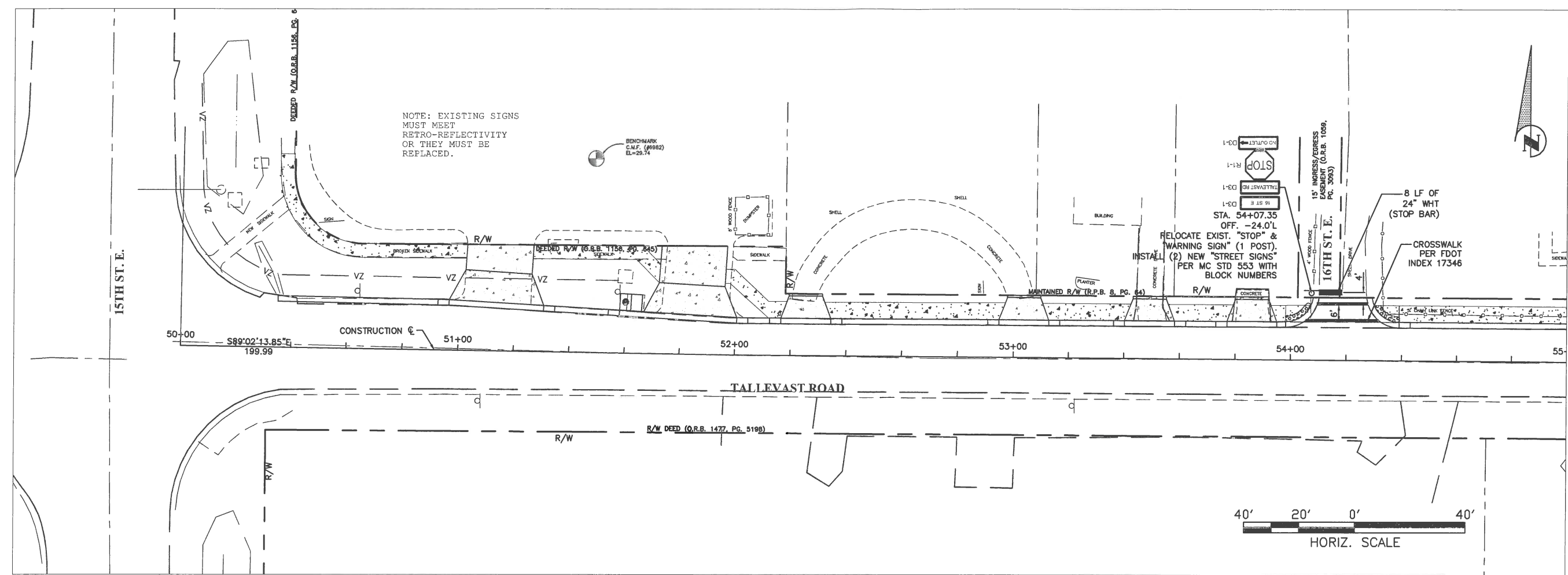
*Chris L. Mowbray*  
10/12/15  
Signature & Date



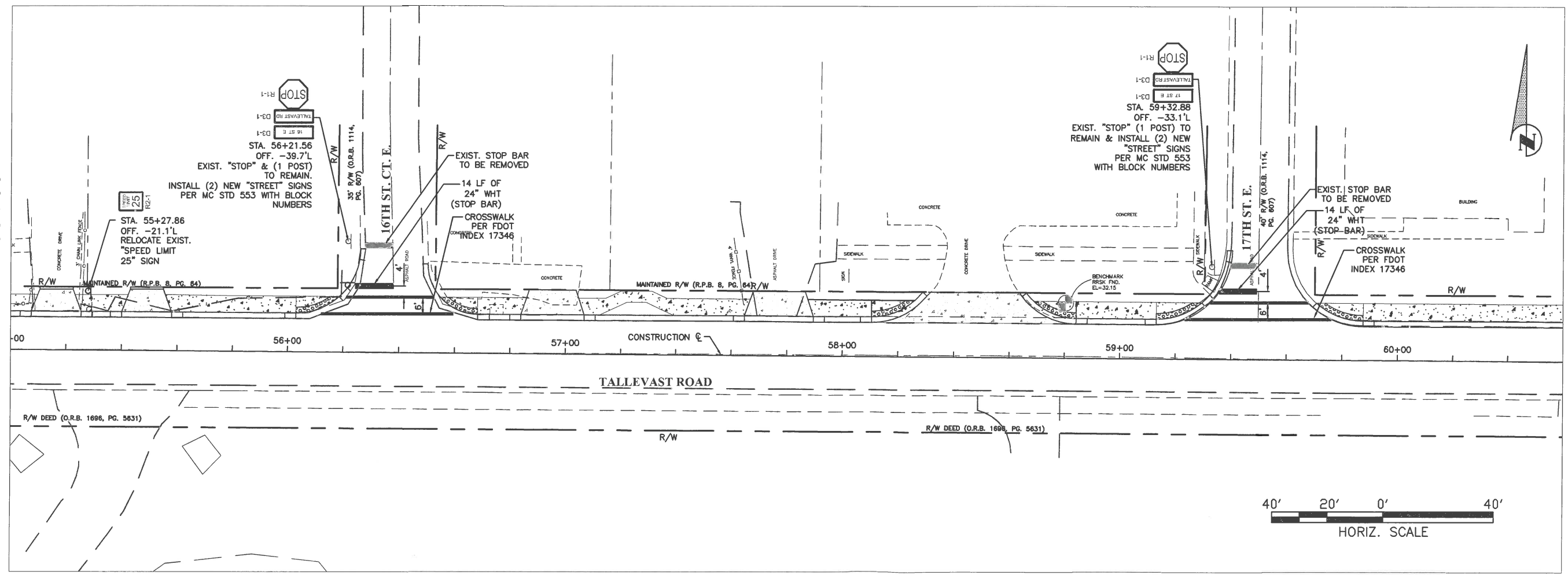
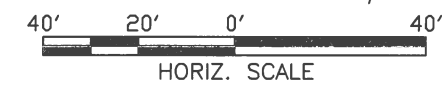
S:\P\W\Engineering\Shore\Highway Engineering\Sidewalks\Tallevast Rd\DWG\Tallevast Sign and Pavement Plan Set.dwg, 2, 10/8/2015 8:13 AM From Forester, L.T., ANSI full bleed B (17.00 x 11.00 inches)



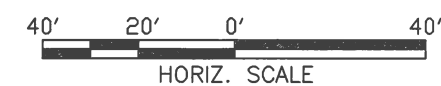
**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
PLANS Sta. 50+00 to Sta. 60+60**



MATCH LINE STA. 60+60



MATCH LINE STA. 60+60



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

CHOPPER FEE NOVEMBER 2018  
 NO. 46777  
 04/14/18  
 CHRIS L. NOWBRAY, P.E.  
 FLORIDA STATE # 46777  
 PROFESSIONAL ENGINEER  
 SHEET S3

S:\P\02\_Engineering\_Series\Highway\_Engineering\Stations\Tallevast\DWG\Tallevast\_Sign and Pavement\_Plan\_S3.dwg, 10/8/2015 8:14 AM, Thom Forester, 1:1, ANSI Full bleed B (7.00 x 11.00 inches)

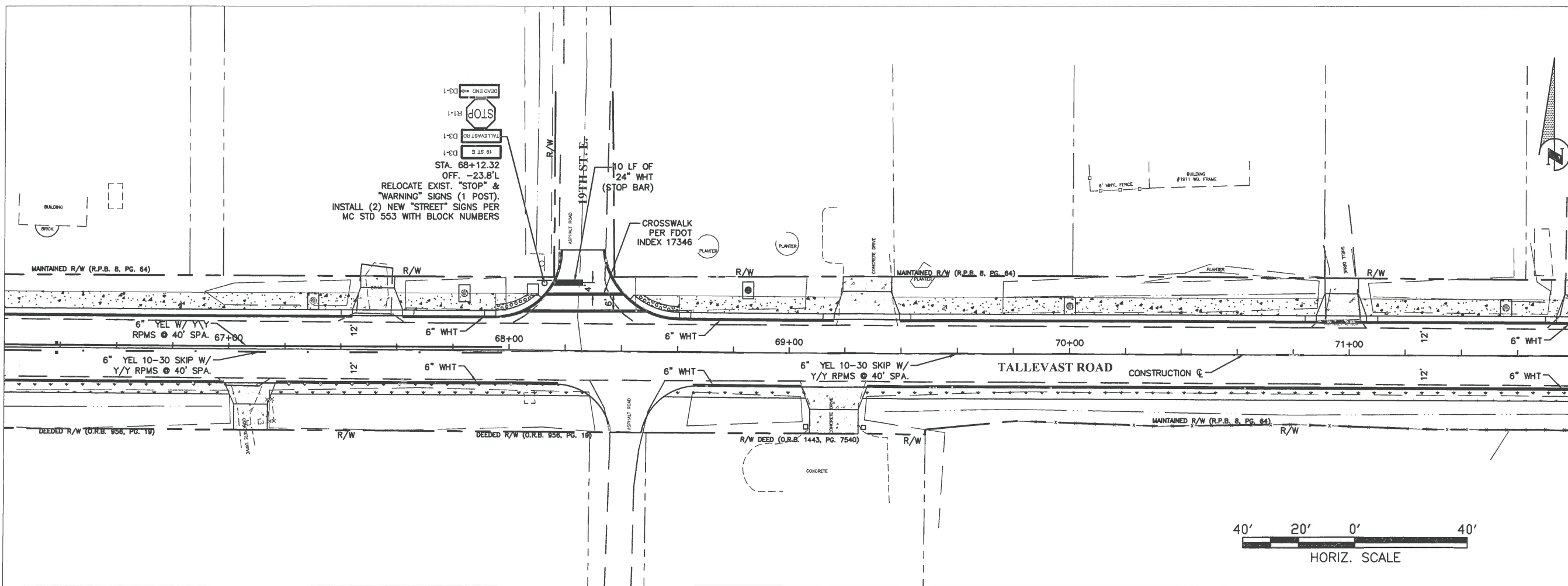
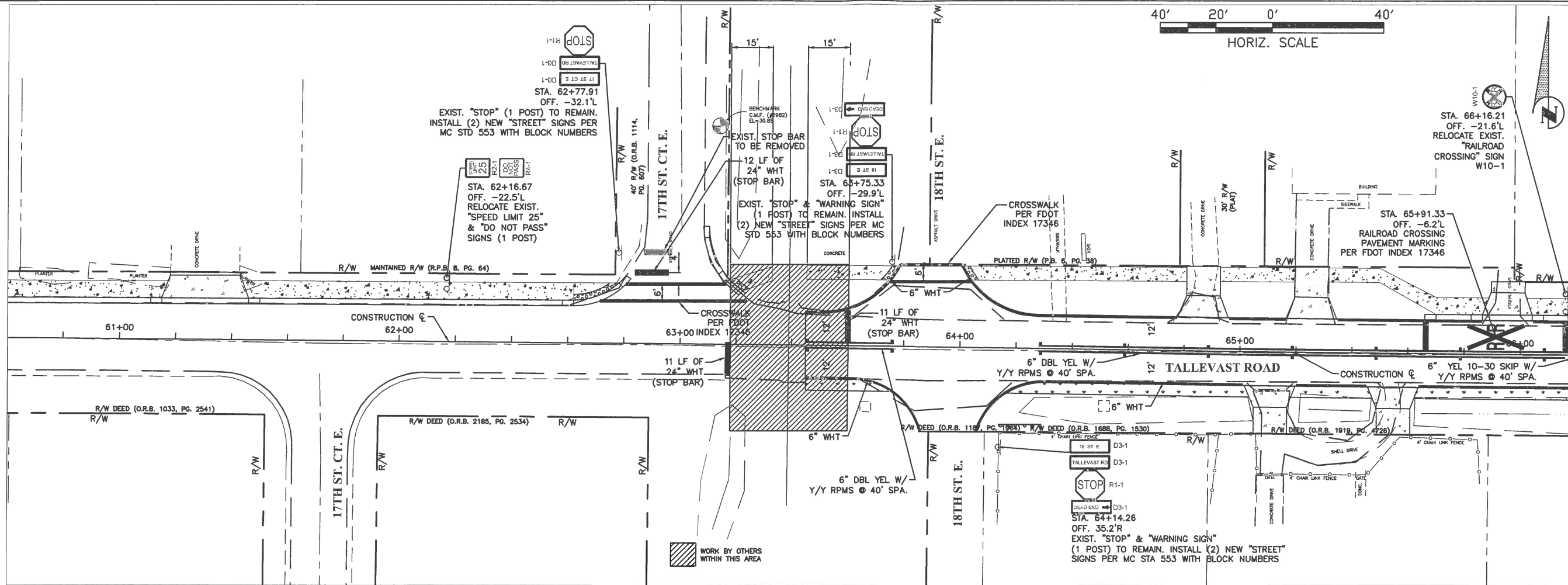
**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
PLANS Sta. 60+60 to Sta. 71+80**

MATCH LINE STA. 60+60

MATCH LINE STA. 66+20

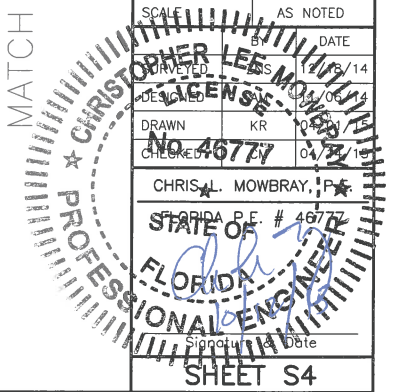
MATCH LINE STA. 66+20

MATCH LINE STA. 71+80



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED
DATE	12/14/14
DRAWN	KR
CHECKED	NO. 46777
DATE	01/27/15
PROFESSIONAL ENGINEER	CHRIS L. MOWBRAY, P.E.
FLORIDA P.E. #	46777
STATE OF	FLORIDA
PROFESSIONAL ENGINEER	
DATE	
SHEET	S4

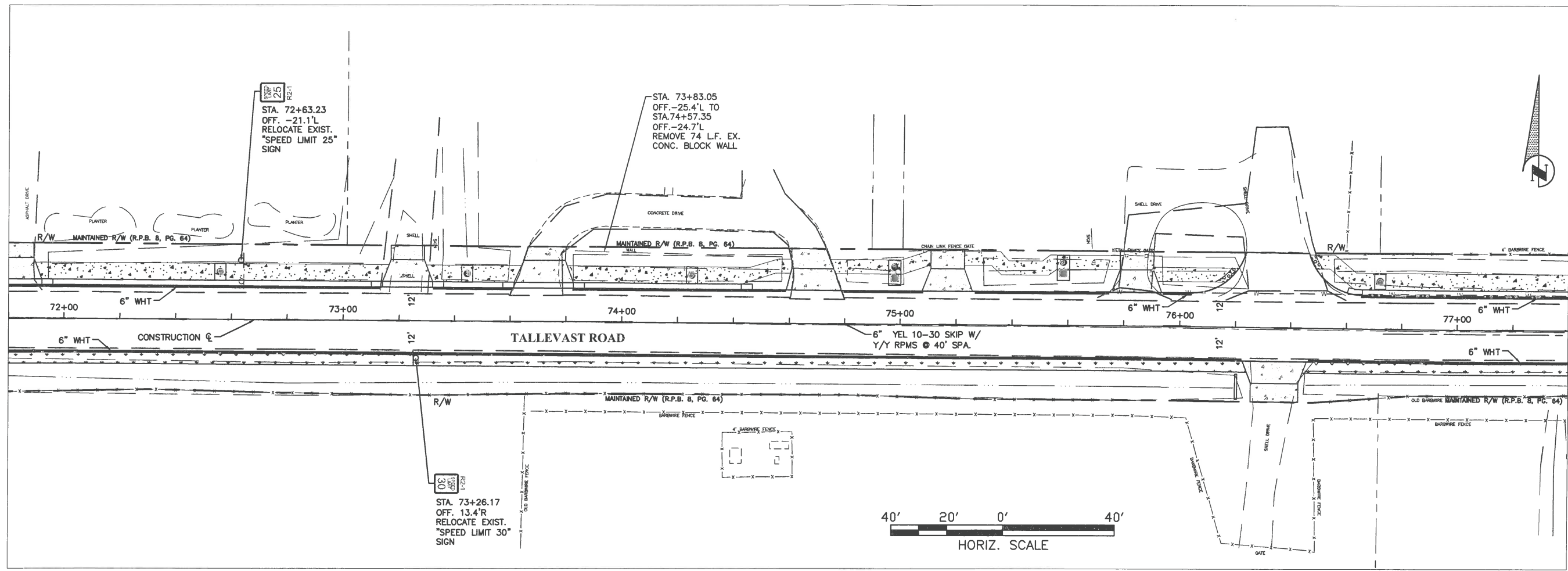


S:\VWD\_Engineering\_Share\Highway\_Engineering\Siteplans\Tallevast\Tallevast\_Plan\_Sets\Reg\_4\_S&P\M4\_10/8/2015 8:14 AM Thom Forester.rvt, ANSI full bleed B (17.00 x 11.00 inches)

**TALLEVAST ROAD SIDEWALK  
FROM 15TH ST. E. TO POST OFFICE  
PLANS Sta. 71+80 to Sta. 82+00**

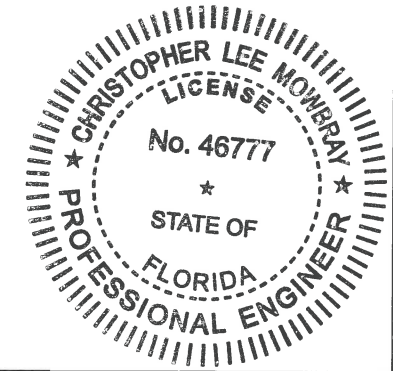
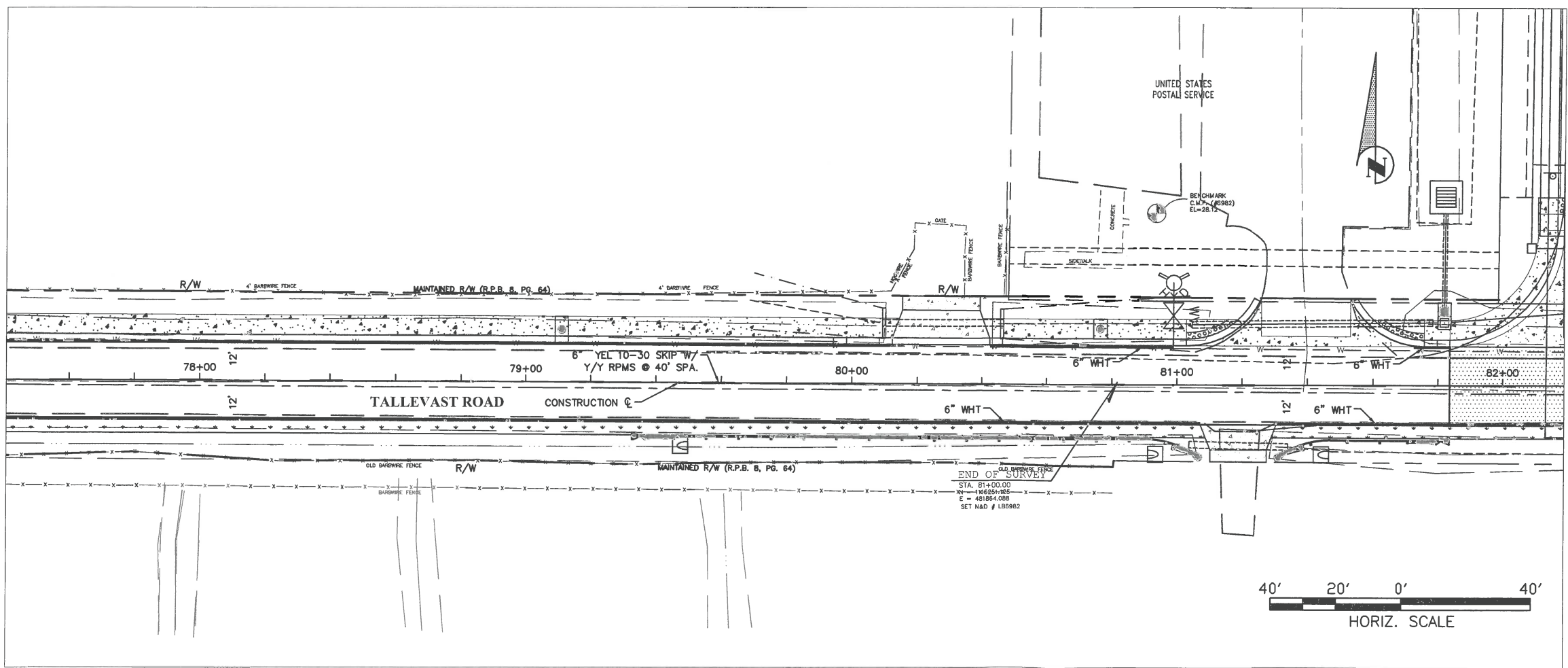
MATCH LINE STA. 71+80

MATCH LINE STA. 77+40



MATCH LINE STA. 77+40

END PROJECT STA. 81+83.62



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	0019900
SURVEY #	00-43835
SEC./TWN./RGE	30/31S/18E
SCALE	AS NOTED

	BY	DATE
SURVEYED	ZNS	12/18/14
DESIGNED	AM	11/06/14
DRAWN	KR	04/01/15
CHECKED	CM	04/14/15

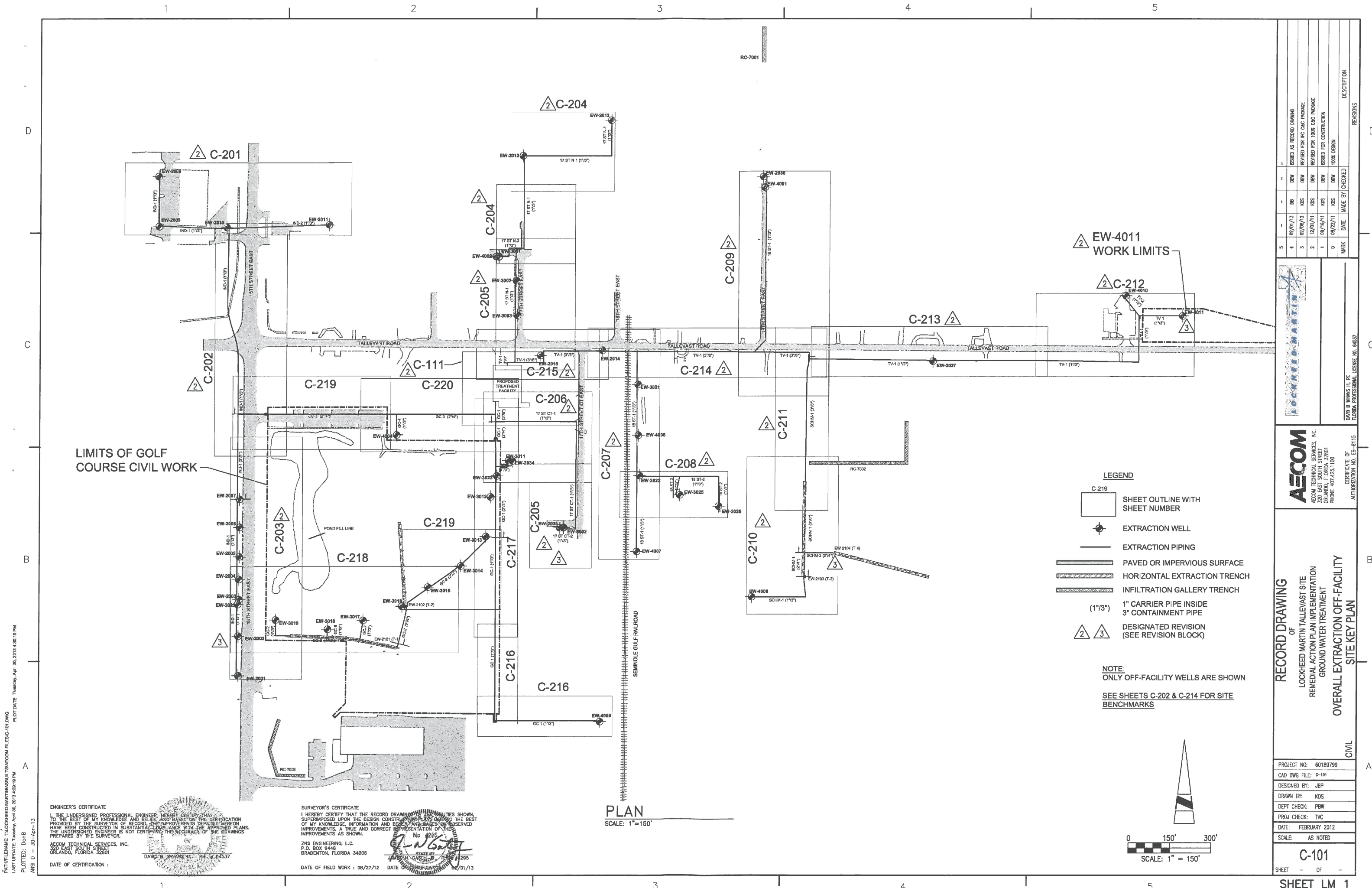
  

CHRIS L. MOWBRAY, P.E.  
FLORIDA P.E. # 46777

*Chris Mowbray*  
10/12/15  
Signature & Date

S:\P\W\Engineering\Shore\Highway\Engineering\Sidewalk\Tallevast\Tallevast\_Road\_Plan\_Sheet.dwg, 10/8/2015 8:15 AM, Thom Forester, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



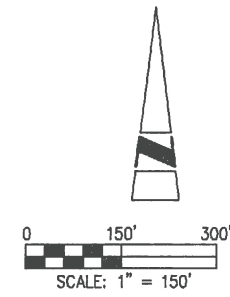


PLAN  
SCALE: 1"=150'

LEGEND

- SHEET OUTLINE WITH SHEET NUMBER
- EXTRACTION WELL
- EXTRACTION PIPING
- PAVED OR IMPERVIOUS SURFACE
- HORIZONTAL EXTRACTION TRENCH
- INFILTRATION GALLERY TRENCH
- 1" CARRIER PIPE INSIDE  
3" CONTAINMENT PIPE
- DESIGNATED REVISION  
(SEE REVISION BLOCK)

NOTE:  
ONLY OFF-FACILITY WELLS ARE SHOWN  
SEE SHEETS C-202 & C-214 FOR SITE BENCHMARKS



NO.	DATE	BY	DESCRIPTION
1	02/01/13	DBW	ISSUED AS RECORD DRAWING
2	02/06/12	KOS	REVISION FOR RC CAC PACKAGE
3	12/01/11	KOS	REVISION FOR 100% CAC PACKAGE
4	09/19/11	DBW	ISSUED FOR CONSTRUCTION
5	09/22/11	KOS	100% DESIGN
MARK	DATE	MADE BY	CHECKED

**LOCKHEED MARTIN**

DAVID B. WANNIS III, P.E.  
FLORIDA PROFESSIONAL LICENSE NO. 6437

**AECOM**

AECOM TECHNICAL SERVICES, INC.  
300 EAST SOUTH STREET  
ORLANDO, FLORIDA 32801  
PHONE 407.425.1100

CERTIFICATE OF AUTHORIZATION NO. EB-8115

RECORD DRAWING  
OF  
LOCKHEED MARTIN TALLEVAST SITE  
REMEDIAL ACTION PLAN IMPLEMENTATION  
GROUND WATER TREATMENT  
OVERALL EXTRACTION OFF-FACILITY  
SITE KEY PLAN

CIVIL

PROJECT NO:	60189799
CAD DWG FILE:	c-101
DESIGNED BY:	JEP
DRAWN BY:	KOS
DEPT CHECK:	PBW
PROJ CHECK:	TWC
DATE:	FEBRUARY 2012
SCALE:	AS NOTED
<b>C-101</b>	
SHEET	OF

PLOT DATE: Tuesday, April 30, 2013 4:30:10 PM  
 PLOTTED: DonB  
 ANSI D - 30-Apr-13

ENGINEER'S CERTIFICATE  
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE INFORMATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE MEASUREMENTS PREPARED BY THE SURVEYOR.

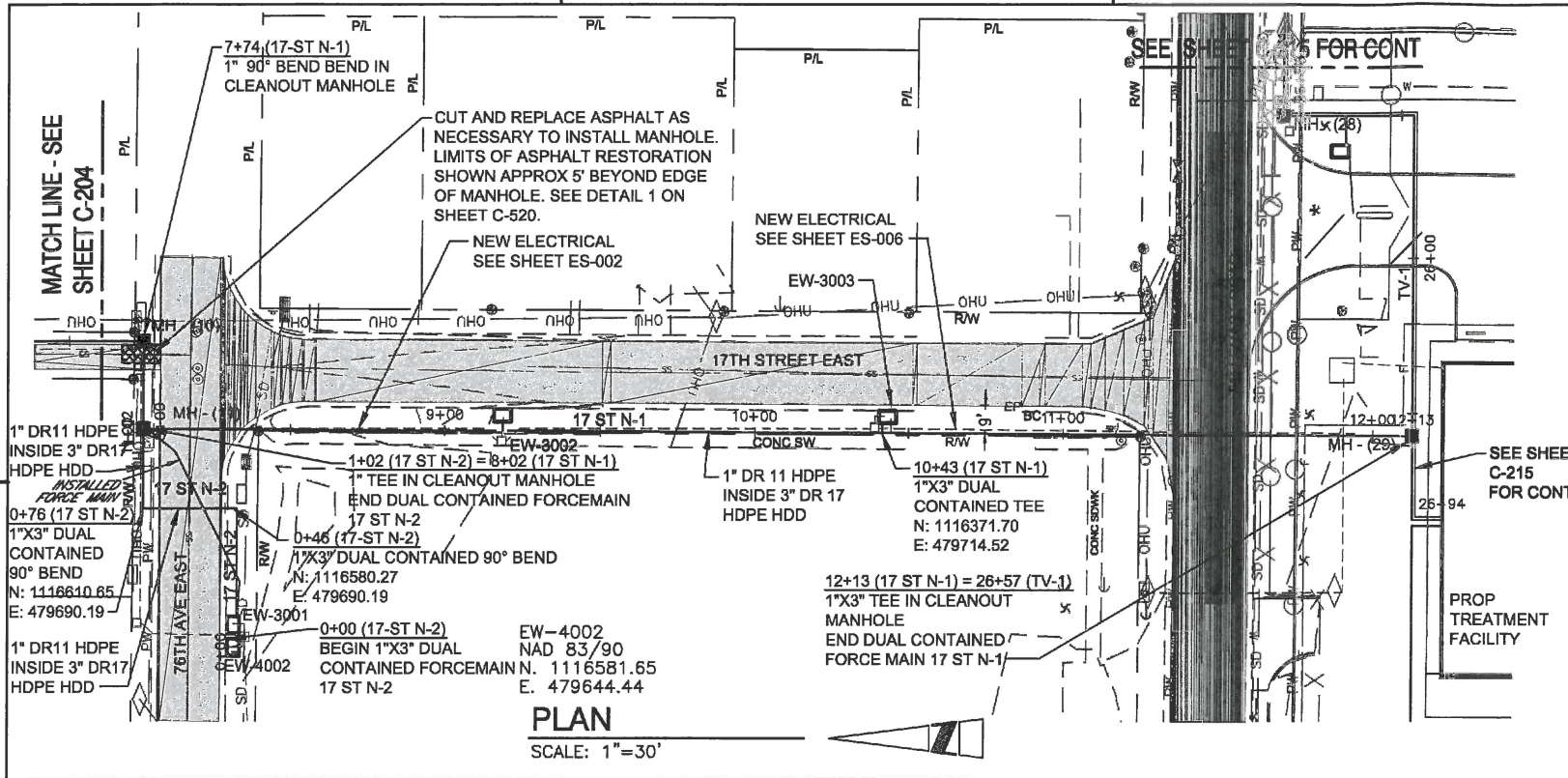
DAVID B. WANNIS III, P.E.  
FLORIDA PROFESSIONAL LICENSE NO. 6437

SURVEYOR'S CERTIFICATE  
I HEREBY CERTIFY THAT THE RECORD DRAWING AND UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION AND BASED ON THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVED IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.

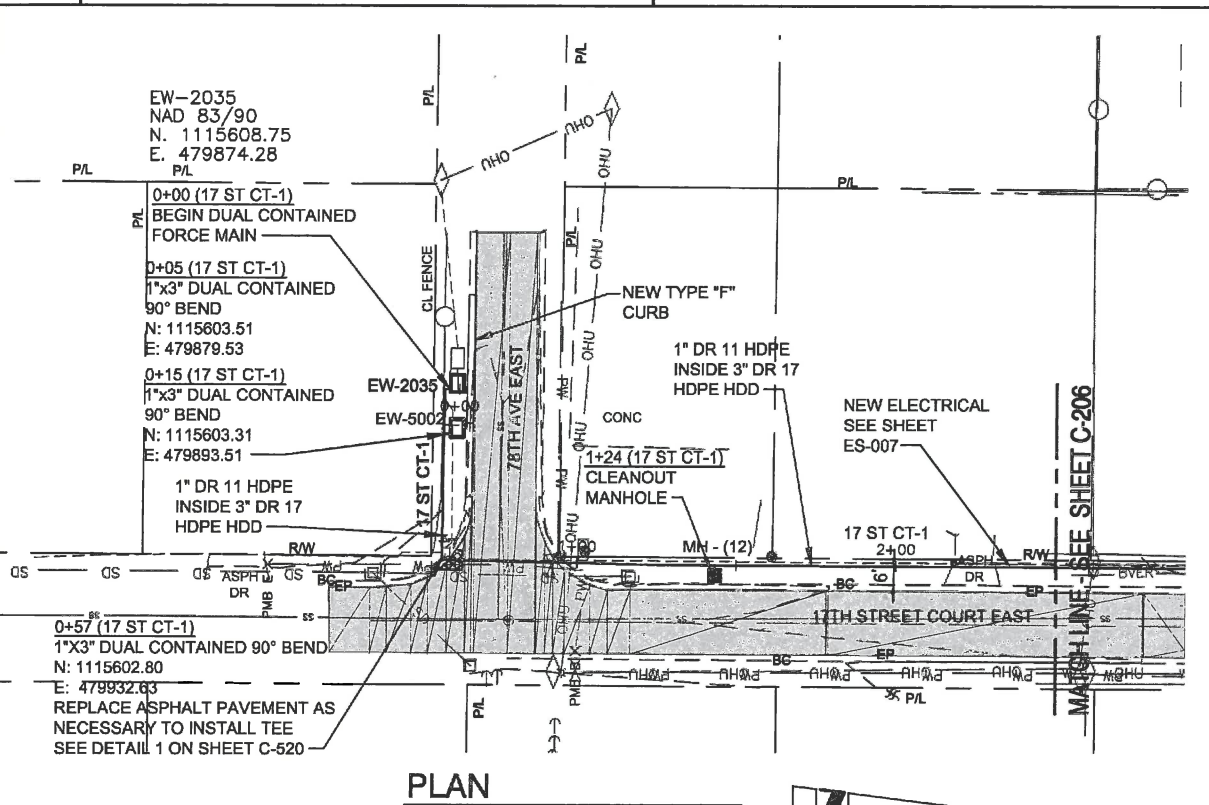
ZNS ENGINEERING, L.C.  
P.O. BOX 9448  
BRADENTON, FLORIDA 34206

DATE OF FIELD WORK: 08/27/12  
DATE OF SURVEY: 02/01/13

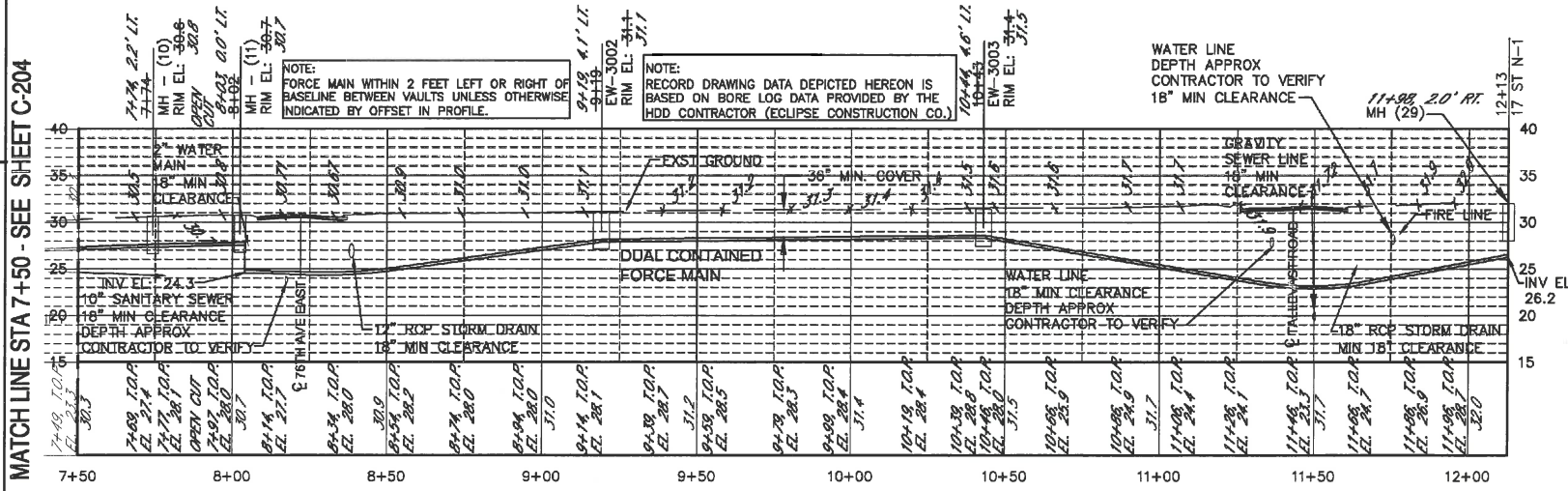




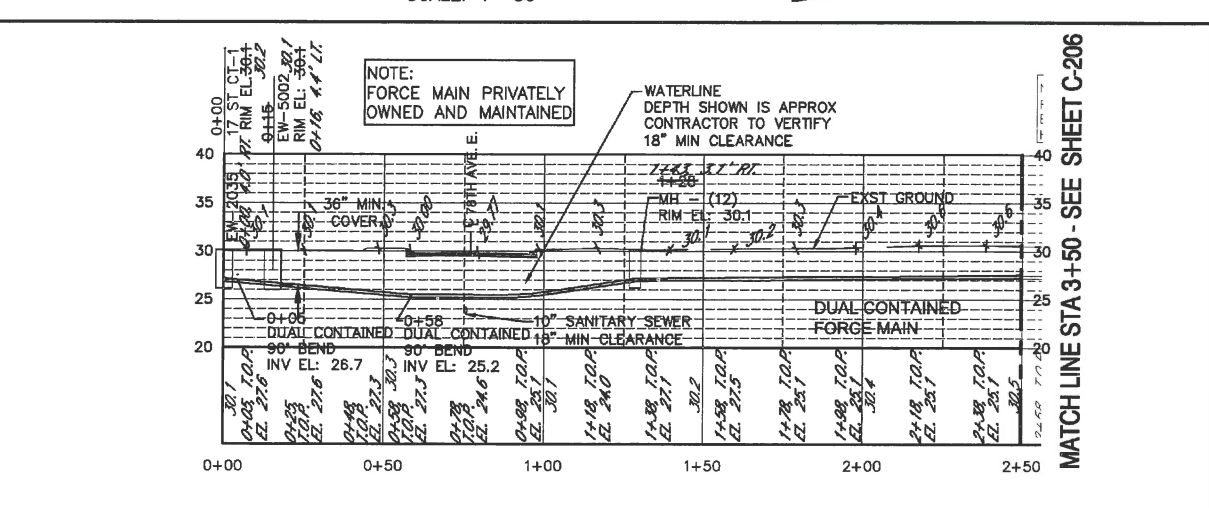
**PLAN**  
SCALE: 1"=30'



**PLAN**  
SCALE: 1"=30'



**PROFILE (17 ST N-1)**  
VERTICAL SCALE: 1"=10'



**PROFILE (17 ST CT-1)**  
VERTICAL SCALE: 1"=10'

HORIZONTAL DIRECTIONAL DRILL LOG, 5-22-12, BRYAN WYANT, RECORDER MATERIAL TO BE PULLED 3" EW, 2" CONT.

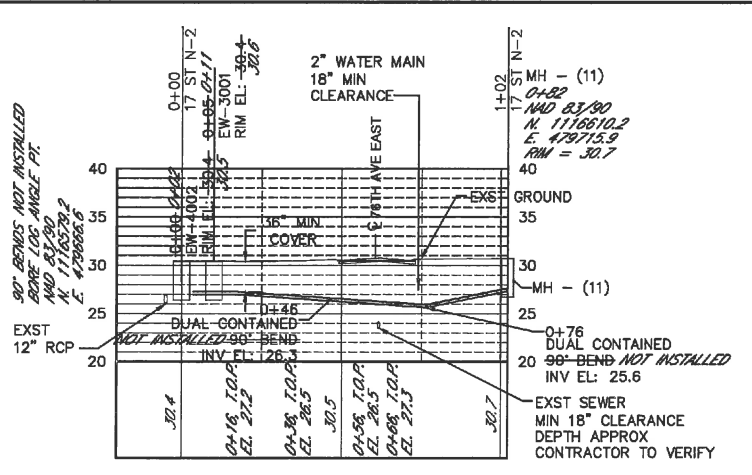
STARTING POINT	ENDING POINT	DEPTH OF PIPE
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	

HORIZONTAL DIRECTIONAL DRILL LOG, 5-31-12, BRYAN WYANT, RECORDER MATERIAL TO BE PULLED 3" EW, 2" CONT.

STARTING POINT	ENDING POINT	DEPTH OF PIPE
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	

HORIZONTAL DIRECTIONAL DRILL LOG, 6-6-12, BRYAN WYANT, RECORDER MATERIAL TO BE PULLED 3" EW, 2" CONT.

STARTING POINT	ENDING POINT	DEPTH OF PIPE
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	



**PROFILE (17 ST N-2)**  
VERTICAL SCALE: 1"=10'

ECLIPSE CONSTRUCTION COMPANY TALLEVAST PROJECT  
2830 PARKWAY STREET - LAKELAND, FL 33811 - (883) 848-8888

HORIZONTAL DIRECTIONAL DRILL LOG, 5-29-12, BRYAN WYANT, RECORDER MATERIAL TO BE PULLED 3" EW, 2" PW, 2" FO

STARTING POINT	ENDING POINT	DEPTH OF PIPE
10+48 (EQUATION STATION)	10+48 (EQUATION STATION)	
10+48 (EQUATION STATION)	10+48 (EQUATION STATION)	

HORIZONTAL DIRECTIONAL DRILL LOG, 5-24-12, BRYAN WYANT, RECORDER MATERIAL TO BE PULLED 3" EW, 2" PW, 2" FO

STARTING POINT	ENDING POINT	DEPTH OF PIPE
10+28 (EQUATION STATION)	10+28 (EQUATION STATION)	
10+28 (EQUATION STATION)	10+28 (EQUATION STATION)	

HORIZONTAL DIRECTIONAL DRILL LOG, 5-23-12, BRYAN WYANT, RECORDER MATERIAL TO BE PULLED 3" EW, 2" PW, 2" CONT.

STARTING POINT	ENDING POINT	DEPTH OF PIPE
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	
12+14 (EQUATION STATION)	12+14 (EQUATION STATION)	

**NOTES:**

- SEE SHEET C-508 FOR MANHOLE CLEANOUT DETAILS.
- PLANS SHOW OUTSIDE EDGE OF WELL VAULT. SEE SHEETS C-510, C-511 AND C-513 FOR DETAILS OF WELL VAULT AND WELL VAULT PIPING.
- SEE SHEET C-103 FOR STRUCTURE TABLE.
- SEE SHEETS C-110, C-514 AND C-515 FOR UTILITY BORING DETAILS.
- PLACE SILT FENCE/GEOWH BALES AROUND CLEANOUT MANHOLES, WELL VAULTS, AND HDD ENTRY AND EXIT PITS AS NECESSARY TO CONTAIN SEDIMENT. SEE EROSION AND SEDIMENTATION SPECIFICATION FOR DETAILS.

**LEGEND**

T.O.P. - TOP OF PIPE  
 NAD - NORTH AMERICAN DATUM  
 CM - CONCRETE MONUMENT  
 EL - ELEVATION  
 BM - BENCH MARK  
 FDEP - FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

**ENGINEER'S CERTIFICATE**  
 I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND BASED ON THE CERTIFICATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

**SURVEYOR'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS, AND THE OBSERVED IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE UTILITIES AND IMPROVEMENTS AS SHOWN.

DATE OF FIELD WORK: 06/12/12  
 DATE OF CERTIFICATION: 07/01/13

**RECORD DRAWING**  
 LOCKHEED MARTIN TALLEVAST SITE  
 REMEDIAL ACTION PLAN IMPLEMENTATION  
 GROUND WATER TREATMENT  
 PLAN AND PROFILE (5 OF 22)

**AECOM**  
 AECOM TECHNICAL SERVICES, INC.  
 320 EAST SOUTH STREET  
 ORLANDO, FLORIDA 32801  
 PHONE 407.425.1100

**CIVIL**

NO.	DATE	MADE BY	CHECKED BY	DESCRIPTION
1	02/07/13	DB	DB	ISSUED AS RECORD DRAWING
2	06/21/13	DB	DB	REVISED RECORD DRAWING
3				
4				
5				

PROJECT NO: 60189799  
 CAD DWG FILE: C-205  
 DESIGNED BY: JBP  
 DRAWN BY: KDS  
 DEPT CHECK: PBW  
 PROJ CHECK: TYC  
 DATE: FEBRUARY 2012  
 SCALE: AS NOTED

**C-205**

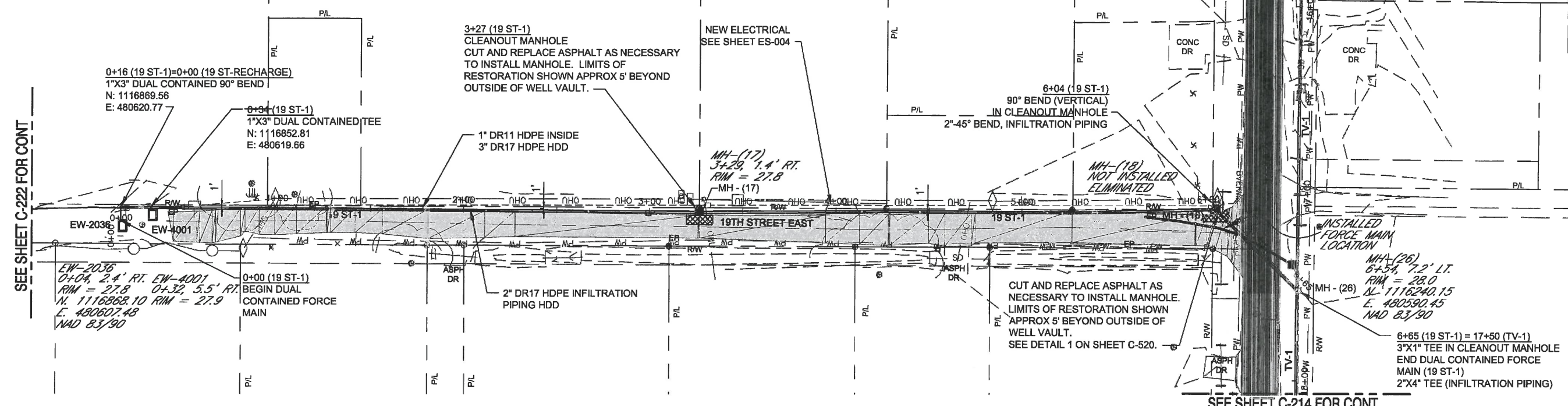
FILENAME: \\S00K2\FPOZ\PROJECTS\1818789000\CADD\SHETS\AS-BUILD\REVISED RECORD DRAWINGS\_6\_18\_13\C-205.DWG  
 LAST UPDATE: Wednesday, June 26, 2013 2:42:22 PM  
 PLOTTED: borrom  
 ANSI D - 28-Jun-13



- NOTES:**
- SEE SHEET C-508 FOR MANHOLE CLEANOUT DETAILS.
  - PLANS SHOW OUTSIDE EDGE OF WELL VAULT. SEE SHEETS C-510, C-511 AND C-513 FOR DETAILS OF WELL VAULT AND WELL VAULT PIPING.
  - SEE SHEET C-103 FOR STRUCTURE TABLE.
  - SEE SHEETS C-110, C-514, AND C-515 FOR UTILITY BORING DETAILS.
  - PLACE SILT FENCE/GEOHAY BALES AROUND CLEANOUT MANHOLES, WELL VAULTS, AND HDD ENTRY AND EXIT PITS AS NECESSARY TO CONTAIN SEDIMENT. SEE EROSION AND SEDIMENTATION SPECIFICATION FOR DETAILS.
  - DEFLECT INFILTRATION PIPING AROUND WELL VAULTS AND CLEANOUT MANHOLES.

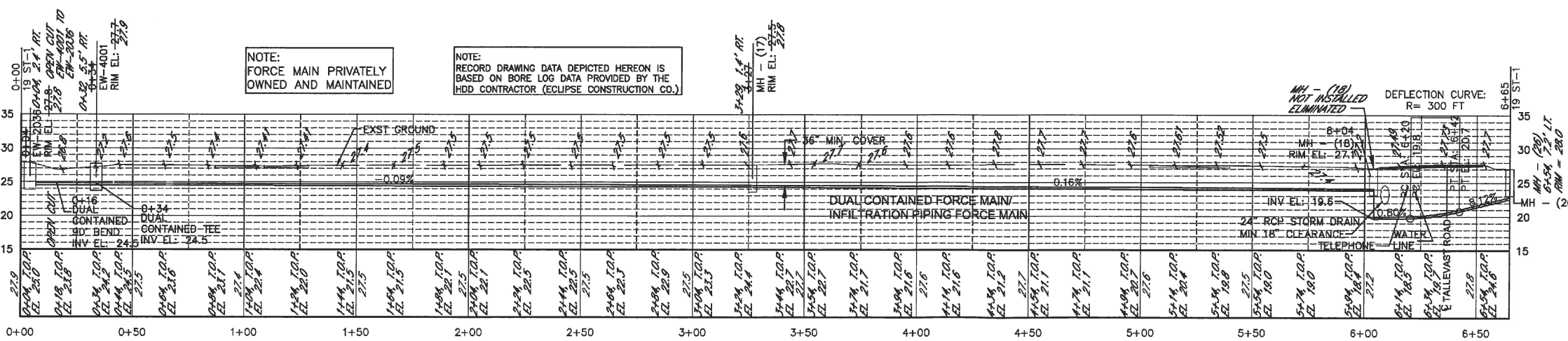
- LEGEND**
- T.O.P. - TOP OF PIPE
  - NAD - NORTH AMERICAN DATUM
  - CM - CONCRETE MONUMENT
  - EL. - ELEVATION
  - BM - BENCH MARK
  - FDEP - FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

SEE SHEET C-213 FOR CONT



**PLAN**  
SCALE: 1"=30'

SEE SHEET C-214 FOR CONT

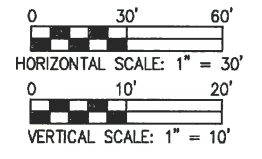


**PROFILE (19 ST-1)**  
VERTICAL SCALE: 1"=10'

ECLIPSE CONSTRUCTION COMPANY		TALLEVAST PROJECT	
2830 PARKWAY STREET - LAKELAND, FL 33811 - (885) 648-9886			
HORIZONTAL DIRECTIONAL DRILL LOG, 5-10-12, BRYAN WYANT, RECORDER			
MATERIAL TO BE PULLED: 3" EW, 2" IG, 2" FJ			
STARTING POINT	MH - 17	ENDING POINT	MH - 26
STATION	INCHES FROM DRILL	DEPTH OF PIPE	
5234 (EVALUATION STATION)			
5234 (EVALUATION STATION)			
HORIZONTAL DIRECTIONAL DRILL LOG, 5-08-12, BRYAN WYANT, RECORDER			
MATERIAL TO BE PULLED: 3" EW, 2" IG, 2" FJ			
STARTING POINT	MH - 17	ENDING POINT	EW-2030
STATION	INCHES FROM DRILL	DEPTH OF PIPE	
5234 (EVALUATION STATION)			
5104 (EVALUATION STATION)			

**ENGINEER'S CERTIFICATE**  
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND BASED ON THE INFORMATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.  
AECOM TECHNICAL SERVICES, INC.  
320 EAST SOUTH STREET  
ORLANDO, FLORIDA 32801  
DATE OF CERTIFICATION: 02/01/13

**SURVEYOR'S CERTIFICATE**  
I HEREBY CERTIFY THAT THE RECORD DRAWINGS, UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, ARE BASED ON OBSERVED IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.  
ZNS ENGINEERING, L.C.  
P.O. BOX 9448  
BRADENTON, FLORIDA 34208  
DATE OF FIELD WORK: 05/17/12  
DATE OF CERTIFICATION: 02/01/13



**RECORD DRAWING**  
OF  
LOCKHEED MARTIN TALLEVAST SITE  
REMEDIAL ACTION PLAN IMPLEMENTATION  
GROUND WATER TREATMENT  
PLAN AND PROFILE (9 OF 22)

**CIVIL**

PROJECT NO: 60189799  
CAD DWG FILE: C-209  
DESIGNED BY: JBP  
DRAWN BY: KDS  
DEPT CHECK: PBW  
PROJ CHECK: TVC  
DATE: FEBRUARY 2012  
SCALE: AS NOTED

**C-209**  
SHEET - OF -

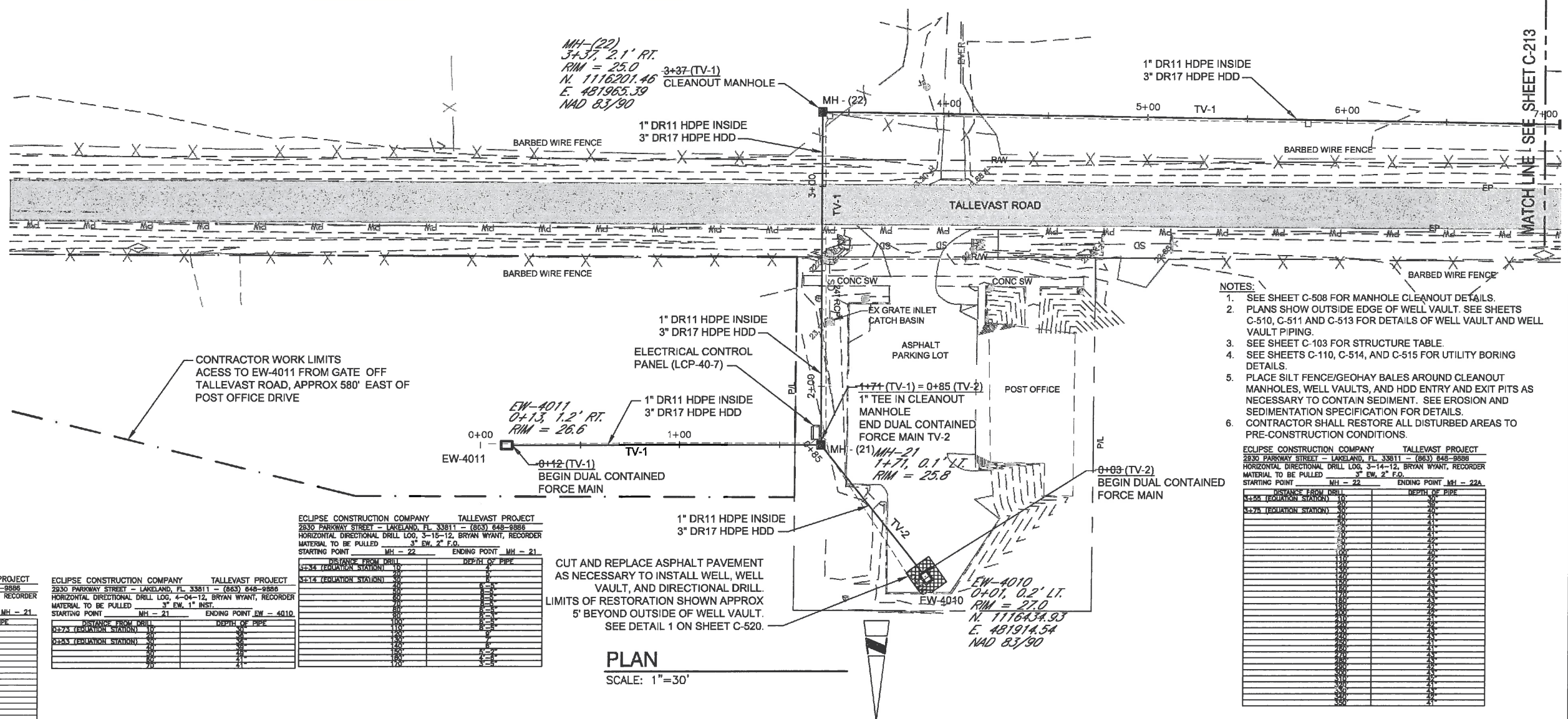
**AECOM**  
AECOM TECHNICAL SERVICES, INC.  
320 EAST SOUTH STREET  
ORLANDO, FLORIDA 32801  
PHONE 407.425.1100

DAVID B. WANKS, P.E.  
FLORIDA PROFESSIONAL LICENSE NO. 64537  
CERTIFICATE OF AUTHORIZATION NO. EB-8115

MARK	DATE	MADE BY	CHECKED	DESCRIPTION
5				
4				
3	6/21/13	MB	JP	REVISED RECORD DRAWING
2	10/01/13	DB	DBW	ISSUED AS RECORD DRAWING
1	02/09/12	KDS	DBW	100% DESIGN
0				

PATH: L:\PROJECTS\801878\000 CAD\DWG\AS-BUILT\REVISED RECORD DRAWINGS\_8\_18\_13\209.DWG  
 LAST UPDATE: Monday, July 01, 2013 12:16 PM  
 PLOTTED: bottom  
 ANSI D - 11-Jul-13





- NOTES:**
- SEE SHEET C-508 FOR MANHOLE CLEANOUT DETAILS.
  - PLANS SHOW OUTSIDE EDGE OF WELL VAULT. SEE SHEETS C-510, C-511 AND C-513 FOR DETAILS OF WELL VAULT AND WELL VAULT PIPING.
  - SEE SHEET C-103 FOR STRUCTURE TABLE.
  - SEE SHEETS C-110, C-514, AND C-515 FOR UTILITY BORING DETAILS.
  - PLACE SILT FENCE/GEOHAY BALES AROUND CLEANOUT MANHOLES, WELL VAULTS, AND HDD ENTRY AND EXIT PITS AS NECESSARY TO CONTAIN SEDIMENT. SEE EROSION AND SEDIMENTATION SPECIFICATION FOR DETAILS.
  - CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS.

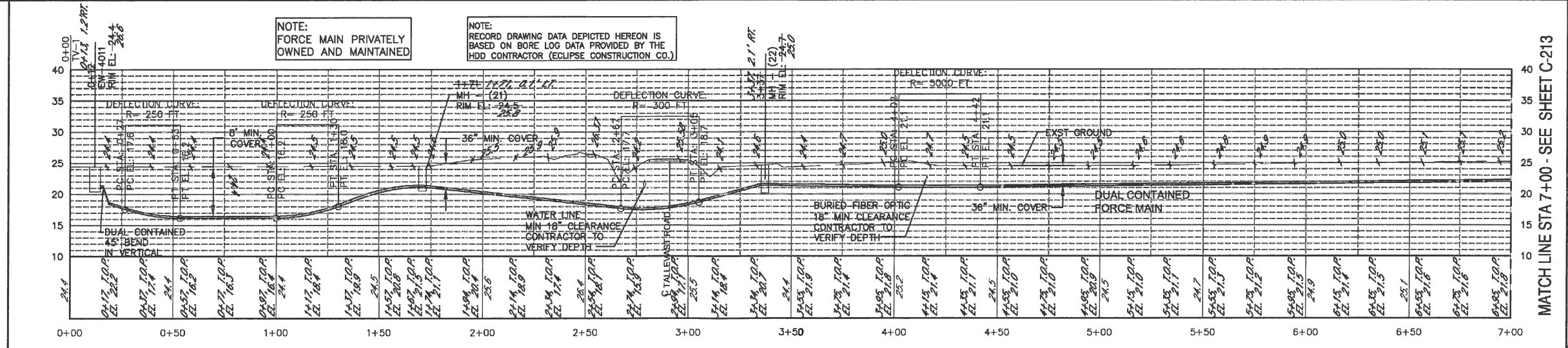
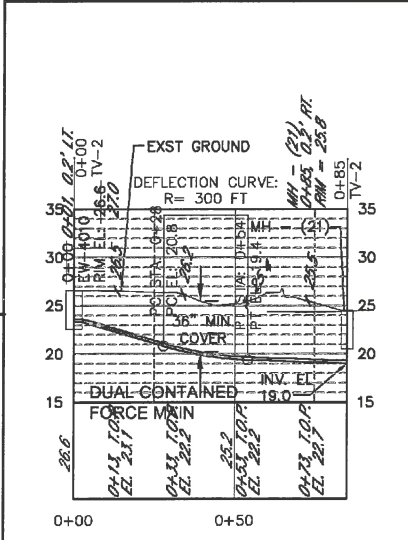
ECLIPSE CONSTRUCTION COMPANY TALLEVAST PROJECT  
2830 PARKWAY STREET - LAKELAND, FL 33811 - (863) 848-8888  
HORIZONTAL DIRECTIONAL DRILL LOG, 3-14-12, BRYAN WYANT, RECORDER  
MATERIAL TO BE PULLED 3" EW, 2" F.O.

REVISION NO.	DATE	DESCRIPTION
1	06/21/13	REVISED RECORD DRAWING
2	02/01/13	ISSUED AS RECORD DRAWING
3	02/06/12	REVISED RECORD DRAWING
4	02/06/12	ISSUED AS RECORD DRAWING
5	02/06/12	REVISED RECORD DRAWING
6	02/06/12	ISSUED AS RECORD DRAWING

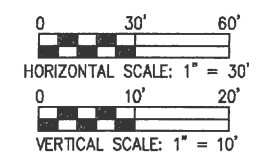
DISTANCE FROM DRILL	DEPTH OF PIPE
0+17 (EQUATION STATION)	1.0
0+37 (EQUATION STATION)	1.0

DISTANCE FROM DRILL	DEPTH OF PIPE
0+17 (EQUATION STATION)	1.0
0+37 (EQUATION STATION)	1.0

DISTANCE FROM DRILL	DEPTH OF PIPE
0+17 (EQUATION STATION)	1.0
0+37 (EQUATION STATION)	1.0



- LEGEND**
- T.O.P. - TOP OF PIPE
  - NAD - NORTH AMERICAN DATUM
  - CM - CONCRETE MONUMENT
  - EL. - ELEVATION
  - BM - BENCH MARK
  - FDEP - FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



**ENGINEER'S CERTIFICATE**  
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, ANY GAGES OR INSTRUMENTATION PROVIDED BY THE SURVEYOR OR RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFIED IN THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

DAVID B. WINANS III, P.E.  
FLORIDA PROFESSIONAL LICENSE NO. 6457

**SURVEYOR'S CERTIFICATE**  
I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION, ARE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVED IMPROVEMENTS A TRUE AND CORRECT REPRESENTATION OF THE UTILITIES AS SHOWN.

ZNS ENGINEERING, L.C.  
P.O. BOX 9448  
BRADENTON, FLORIDA 34206

DATE OF FIELD WORK: 12/17/12  
DATE OF CERTIFICATION: 01/26/13

**RECORD DRAWING**  
OF  
LOCKHEED MARTIN TALLEVAST SITE  
REMEDIAL ACTION PLAN IMPLEMENTATION  
GROUND WATER TREATMENT  
PLAN AND PROFILE (12 OF 22)

**AECOM**  
AECOM TECHNICAL SERVICES, INC.  
300 EAST SOUTH STREET  
ORLANDO, FLORIDA 32801  
PHONE 407.425.1100

PROJECT NO: 60189799  
CAD DWG FILE: c-212  
DESIGNED BY: JBP  
DRAWN BY: KDS  
DEPT CHECK: PFW  
PROJ CHECK: TVC  
DATE: FEBRUARY 2012  
SCALE: AS NOTED

**C-212**  
SHEET - OF -

FLORIDA PROFESSIONAL LICENSE NO. 6457  
CERTIFICATE OF AUTHORIZATION NO. EP-8115

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PLOTTED: cecrhj  
ANSI D - 24-June-13



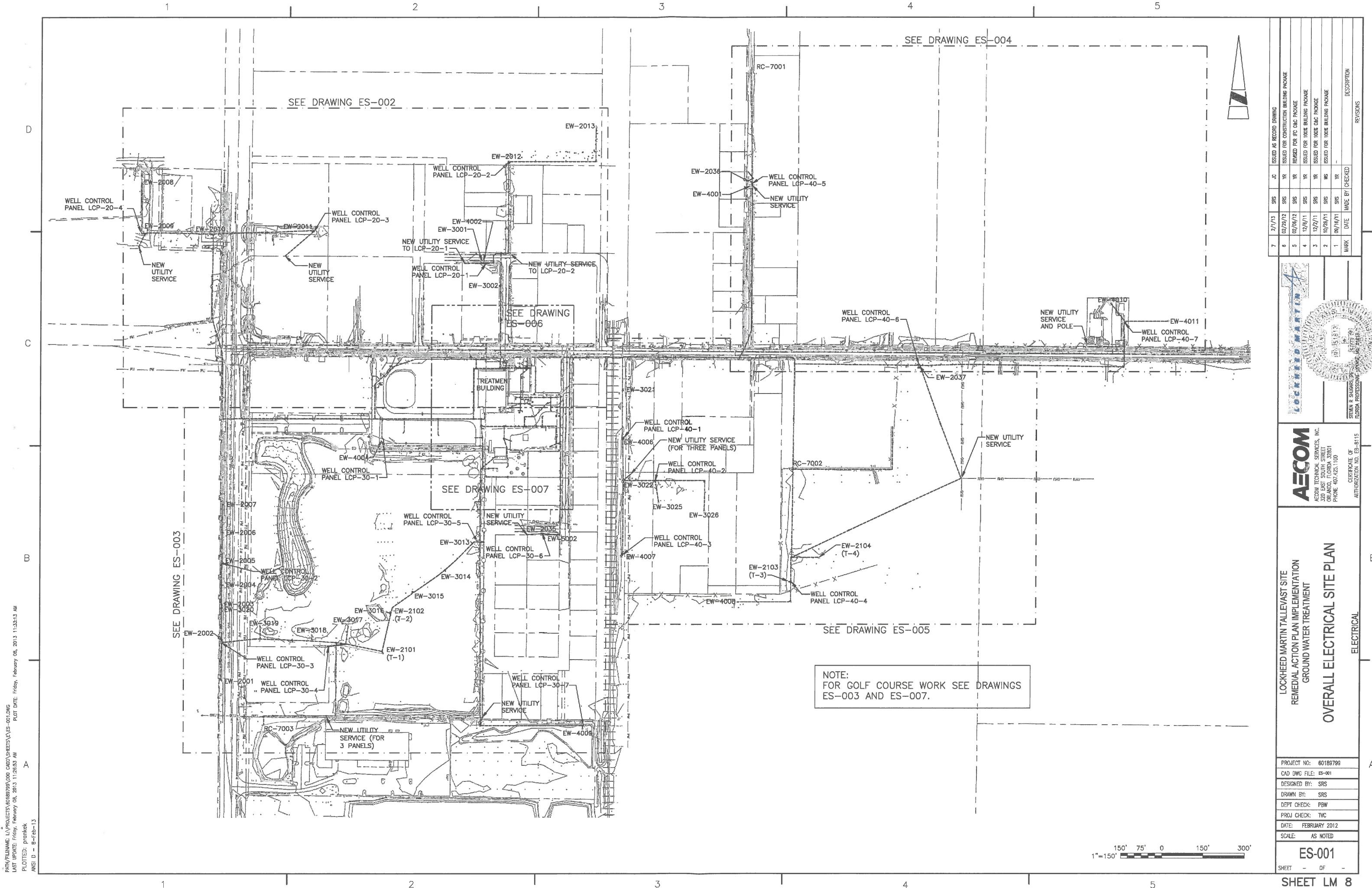












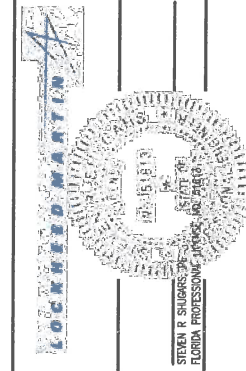
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 PLOTTED: prankek  
 ANSI D - B - Feb-13

PROJECT NO: 60189799  
 CAD DWG FILE: ES-001  
 DESIGNED BY: SRS  
 DRAWN BY: SRS  
 DEPT CHECK: PBW  
 PROJ CHECK: TVC  
 DATE: FEBRUARY 2012  
 SCALE: AS NOTED

NOTE:  
 FOR GOLF COURSE WORK SEE DRAWINGS  
 ES-003 AND ES-007.



NO.	DATE	BY	DESCRIPTION
7	2/7/13	SRS	ISSUED AS RECORD DRAWING
6	02/29/12	SRS	ISSUED FOR CONSTRUCTION BUILDING PACKAGE
5	02/09/12	SRS	REVISED FOR IPC C&C PACKAGE
4	12/16/11	SRS	ISSUED FOR 100% BUILDING PACKAGE
3	12/21/11	SRS	ISSUED FOR 100% C&C PACKAGE
2	10/26/11	SRS	ISSUED FOR 100% BUILDING PACKAGE
1	09/16/11	SRS	ISSUED FOR 100% BUILDING PACKAGE
MARK	DATE	MADE BY	CHECKED



**AECOM**  
 AECOM TECHNICAL SERVICES, INC.  
 230 EAST SOUTH STREET  
 GAITHERSBURG, MD 20878  
 PHONE: 410-285-1100  
 CERTIFICATE OF AUTHORIZATION NO. EE-8115

LOCKHEED MARTIN TALLEYVAST SITE  
 REMEDIAL ACTION PLAN IMPLEMENTATION  
 GROUND WATER TREATMENT  
**OVERALL ELECTRICAL SITE PLAN**  
 ELECTRICAL









THIS DRAWING IS AN ENLARGED SCALE OF A PORTION OF DRAWING ES-002

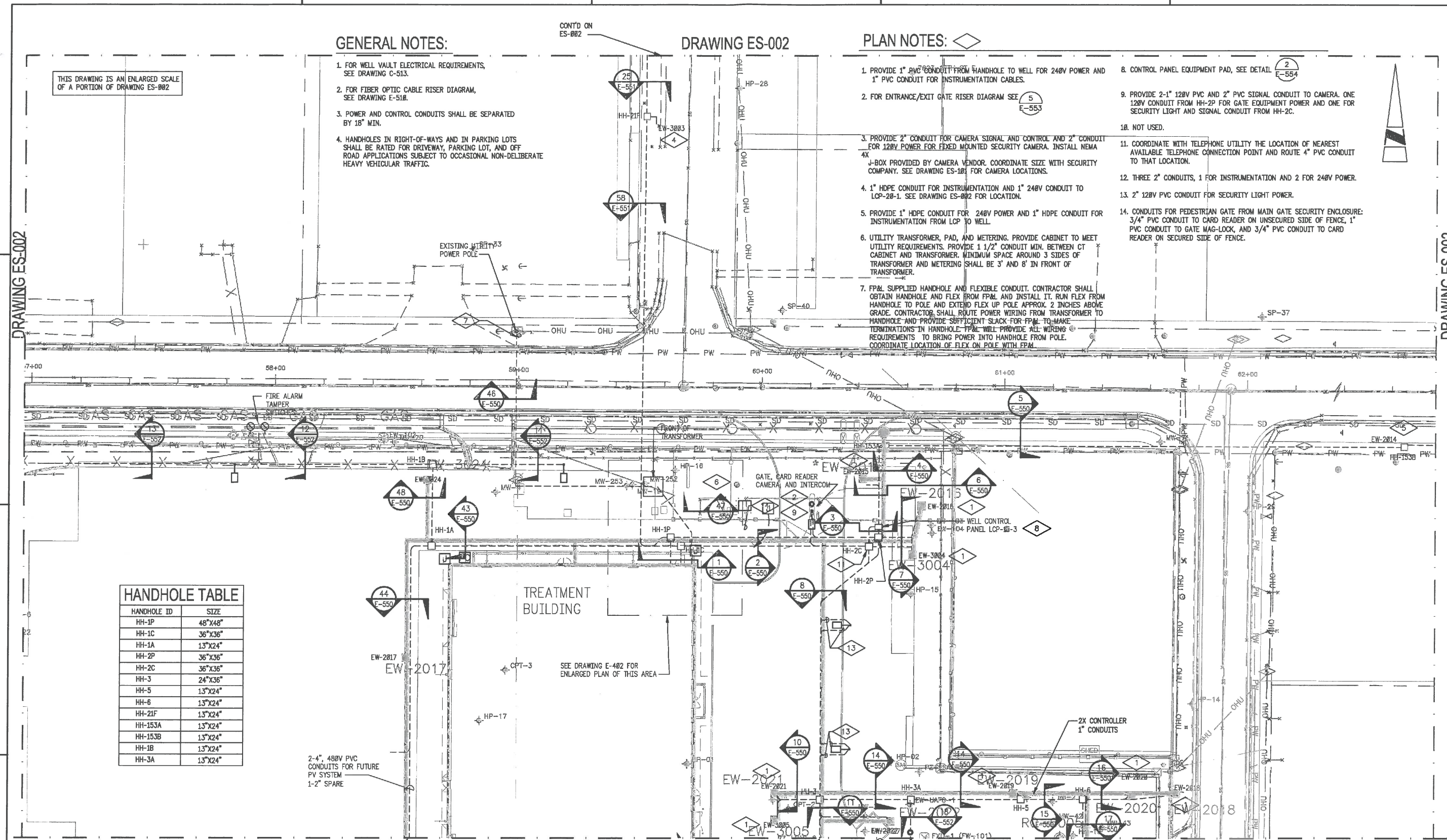
**GENERAL NOTES:**

1. FOR WELL VAULT ELECTRICAL REQUIREMENTS, SEE DRAWING C-513.
2. FOR FIBER OPTIC CABLE RISER DIAGRAM, SEE DRAWING E-518.
3. POWER AND CONTROL CONDUITS SHALL BE SEPARATED BY 18" MIN.
4. HANDHOLES IN RIGHT-OF-WAYS AND IN PARKING LOTS SHALL BE RATED FOR DRIVEWAY, PARKING LOT, AND OFF ROAD APPLICATIONS SUBJECT TO OCCASIONAL NON-DELIBERATE HEAVY VEHICULAR TRAFFIC.

**DRAWING ES-002**

**PLAN NOTES:**

1. PROVIDE 1" PVC CONDUIT FROM HANDHOLE TO WELL FOR 240V POWER AND 1" PVC CONDUIT FOR INSTRUMENTATION CABLES.
2. FOR ENTRANCE/EXIT GATE RISER DIAGRAM SEE E-553
3. PROVIDE 2" CONDUIT FOR CAMERA SIGNAL AND CONTROL AND 2" CONDUIT FOR 120V POWER FOR FIXED MOUNTED SECURITY CAMERA. INSTALL NEMA 4X J-BOX PROVIDED BY CAMERA VENDOR. COORDINATE SIZE WITH SECURITY COMPANY. SEE DRAWING ES-101 FOR CAMERA LOCATIONS.
4. 1" HDPE CONDUIT FOR INSTRUMENTATION AND 1" 240V CONDUIT TO LCP-20-1. SEE DRAWING ES-002 FOR LOCATION.
5. PROVIDE 1" HDPE CONDUIT FOR 240V POWER AND 1" HDPE CONDUIT FOR INSTRUMENTATION FROM LCP TO WELL.
6. UTILITY TRANSFORMER, PAD, AND METERING. PROVIDE CABINET TO MEET UTILITY REQUIREMENTS. PROVIDE 1 1/2" CONDUIT MIN. BETWEEN CT CABINET AND TRANSFORMER. MINIMUM SPACE AROUND 3 SIDES OF TRANSFORMER AND METERING SHALL BE 3' AND 8' IN FRONT OF TRANSFORMER.
7. FPM SUPPLIED HANDHOLE AND FLEXIBLE CONDUIT. CONTRACTOR SHALL OBTAIN HANDHOLE AND FLEX FROM FPM AND INSTALL IT. RUN FLEX FROM HANDHOLE TO POLE AND EXTEND FLEX UP POLE APPROX. 2 INCHES ABOVE GRADE. CONTRACTOR SHALL ROUTE POWER WIRING FROM TRANSFORMER TO HANDHOLE AND PROVIDE SUFFICIENT SLACK FOR FPM TO MAKE TERMINATIONS IN HANDHOLE. FPM WILL PROVIDE ALL WIRING REQUIREMENTS TO BRING POWER INTO HANDHOLE FROM POLE. COORDINATE LOCATION OF FLEX ON POLE WITH FPM.
8. CONTROL PANEL EQUIPMENT PAD, SEE DETAIL E-554
9. PROVIDE 2-1" 120V PVC AND 2" PVC SIGNAL CONDUIT TO CAMERA. ONE 120V CONDUIT FROM HH-2P FOR GATE EQUIPMENT POWER AND ONE FOR SECURITY LIGHT AND SIGNAL CONDUIT FROM HH-2C.
10. NOT USED.
11. COORDINATE WITH TELEPHONE UTILITY THE LOCATION OF NEAREST AVAILABLE TELEPHONE CONNECTION POINT AND ROUTE 4" PVC CONDUIT TO THAT LOCATION.
12. THREE 2" CONDUITS, 1 FOR INSTRUMENTATION AND 2 FOR 240V POWER.
13. 2" 120V PVC CONDUIT FOR SECURITY LIGHT POWER.
14. CONDUITS FOR PEDESTRIAN GATE FROM MAIN GATE SECURITY ENCLOSURE: 3/4" PVC CONDUIT TO CARD READER ON UNSECURED SIDE OF FENCE, 1" PVC CONDUIT TO GATE MAG-LOCK, AND 3/4" PVC CONDUIT TO CARD READER ON SECURED SIDE OF FENCE.



**HANDHOLE TABLE**

HANDHOLE ID	SIZE
HH-1P	48"X48"
HH-1C	36"X36"
HH-1A	13"X24"
HH-2P	36"X36"
HH-2C	36"X36"
HH-3	24"X36"
HH-5	13"X24"
HH-6	13"X24"
HH-21F	13"X24"
HH-153A	13"X24"
HH-153B	13"X24"
HH-1B	13"X24"
HH-3A	13"X24"

2-4", 480V PVC CONDUITS FOR FUTURE PV SYSTEM  
1-2" SPARE

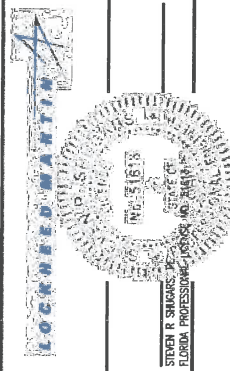
MATCHLINE ES-007

SEE DRAWING E-402 FOR ENLARGED PLAN OF THIS AREA



**REVISIONS**

NO.	DATE	MADE BY	CHECKED	DESCRIPTION
3	2/1/13	SRS	SRS	ISSUED AS REDLINE DRAWING
2	02/06/12	SRS	DRW	REVISED TO ADD GATE, SECURITY LIGHTS, AND CAMERA CONDUITS
1	02/29/12	SRS	YR	ISSUED FOR CONSTRUCTION BIDDING PACKAGE
0	02/06/12	SRS	YR	IFC CMC PACKAGE



**AECOM**  
AECOM TECHNICAL SERVICES, INC.  
300 EAST SOUTH STREET  
ORLANDO, FLORIDA 32801  
PHONE 407.425.1100

LOCKHEED MARTIN TALLEVAIST SITE  
REMEDIAL ACTION PLAN IMPLEMENTATION  
GROUND WATER TREATMENT  
**ELECTRICAL SITE PLAN**  
NORTH ON SITE WELLS  
ELECTRICAL

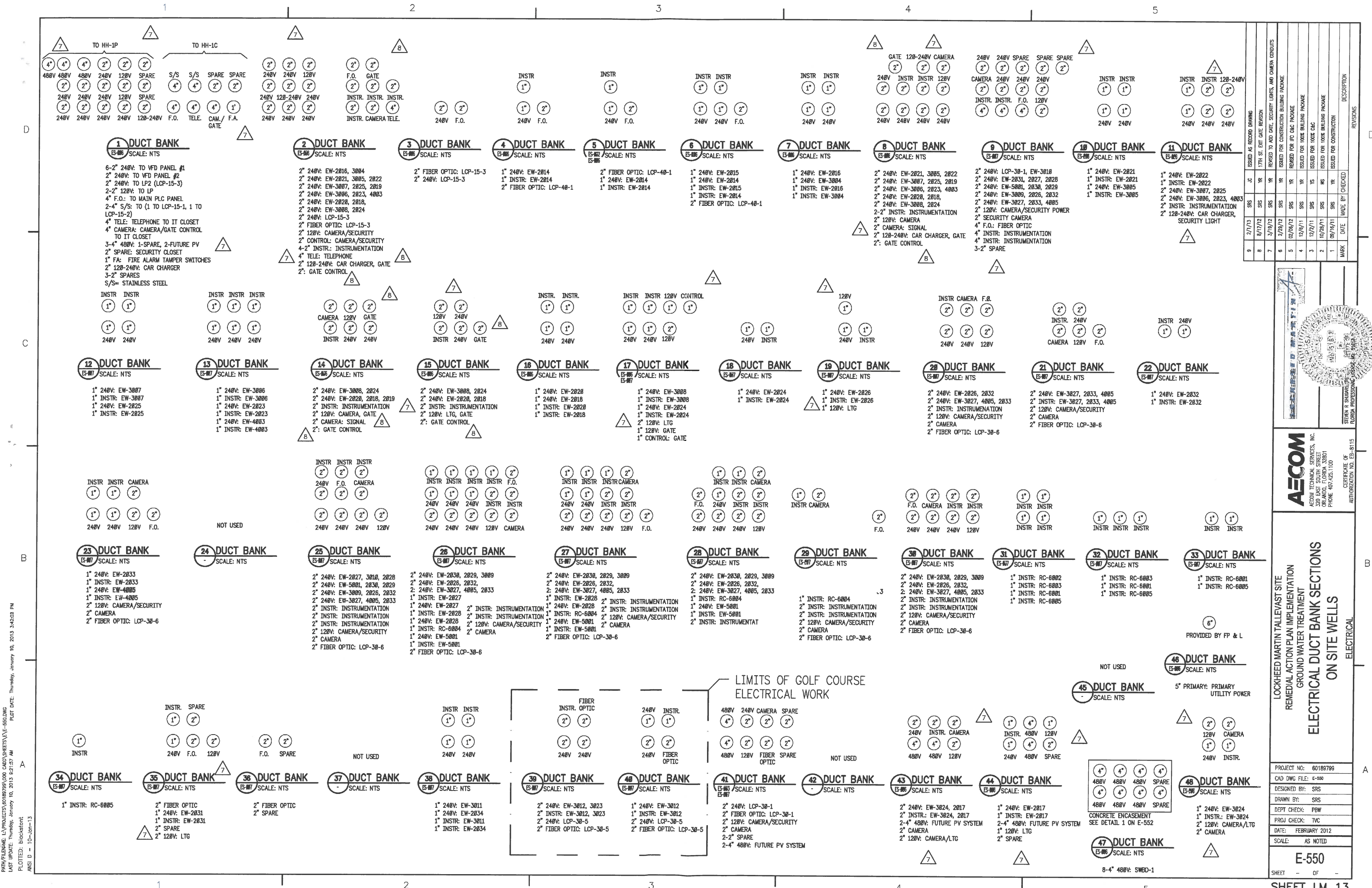
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CAD DWG FILE: ES-006  
DESIGNED BY: SRS  
DRAWN BY: SRS  
DEPT CHECK: PBW  
PROJ CHECK: TVC  
DATE: FEBRUARY 2012  
SCALE: AS NOTED

**ES-006**  
SHEET - OF -

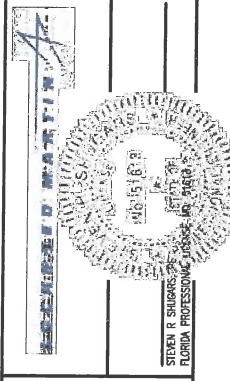
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 PLOTTED: foalard  
 ANSI D - 10-00-13







NO.	DATE	MADE BY	CHECKED	DESCRIPTION
1	09/16/11	SRS	MS	ISSUED FOR CONSTRUCTION
2	10/26/11	SRS	MS	ISSUED FOR 100% OAC
3	12/2/11	SRS	YS	ISSUED FOR 100% OAC
4	02/06/12	SRS	YS	ISSUED FOR 100% OAC
5	02/06/12	SRS	YS	ISSUED FOR 100% OAC
6	02/06/12	SRS	YS	ISSUED FOR 100% OAC
7	02/06/12	SRS	YS	ISSUED FOR 100% OAC
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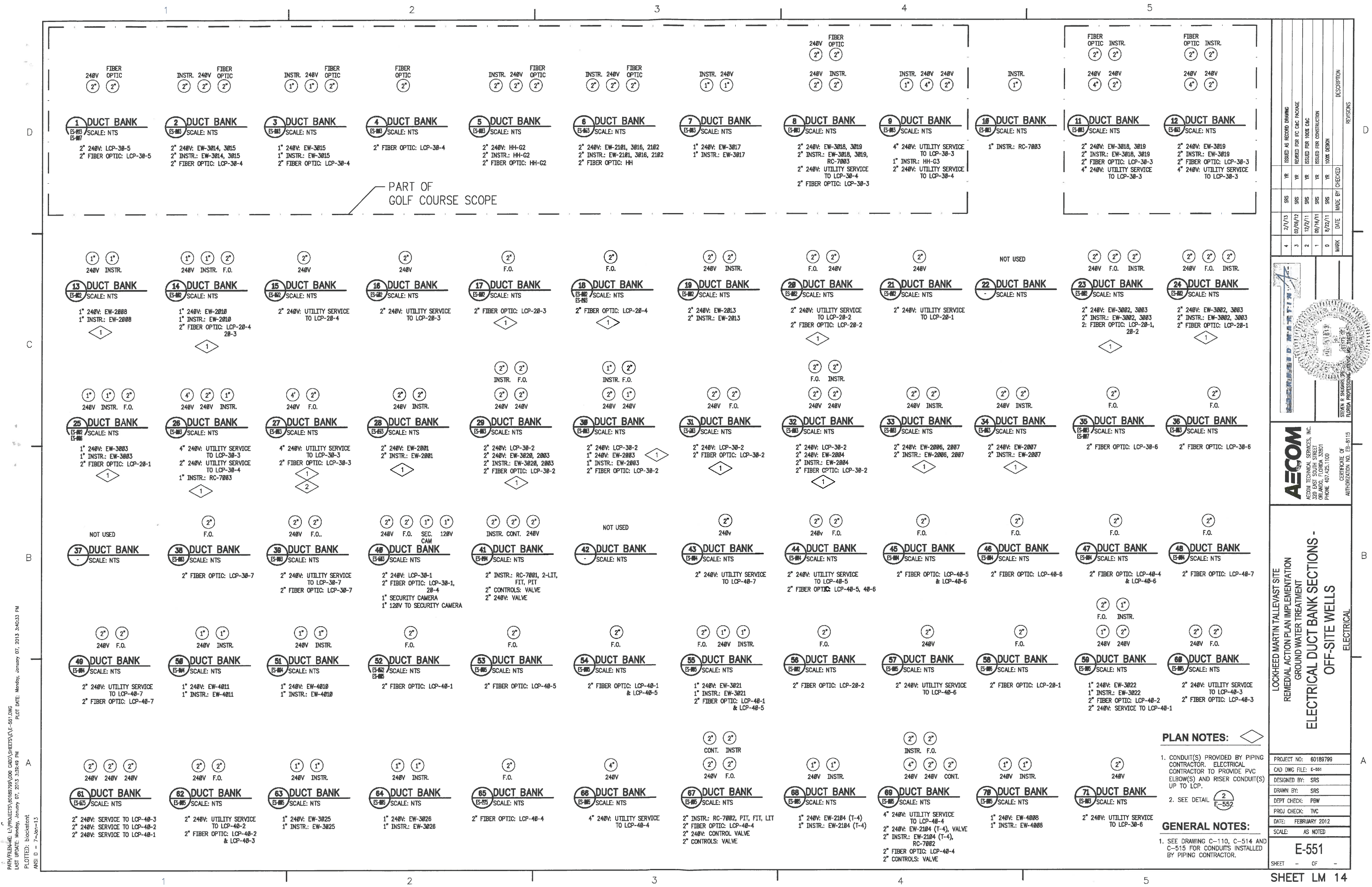
**AECOM**  
 AECOM TECHNICAL SERVICES, INC.  
 320 EAST SOUTH STREET  
 ORLANDO, FLORIDA 32801  
 PHONE 407.425.1100

LOCKHEED MARTIN TALLEVAIST SITE  
 REMEDIAL ACTION PLAN IMPLEMENTATION  
 GROUND WATER TREATMENT  
**ELECTRICAL DUCT BANK SECTIONS**  
 ON SITE WELLS  
 ELECTRICAL

PROJECT NO: 60189799  
 CAD DWG FILE: E-550  
 DESIGNED BY: SRS  
 DRAWN BY: SRS  
 DEPT CHECK: PBW  
 PROJ CHECK: TVC  
 DATE: FEBRUARY 2012  
 SCALE: AS NOTED

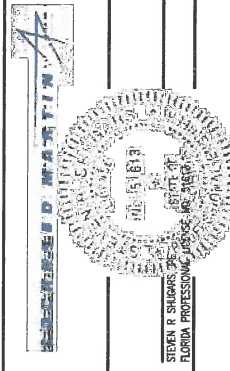
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 PLOTTED: Blackpoint  
 ANS: D - 10-Jan-13



PART OF GOLF COURSE SCOPE

NO.	DATE	BY	DESCRIPTION
1	02/13/13	SRS	ISSUED AS RECORD DRAWING
2	02/26/12	SRS	REWORK FOR IFC OAC PHONO
3	12/2/11	SRS	ISSUED FOR 100% OAC
4	07/16/11	SRS	ISSUED FOR CONSTRUCTION
5	08/22/11	SRS	100% DESIGN
MARK		DATE	MADE BY
			CHECKED



**AECOM**  
 AECOM TECHNICAL SERVICES, INC.  
 3200 EAST SOUTH STREET  
 ORLANDO, FLORIDA 32801  
 PHONE: 407.425.1100

LOCKHEED MARTIN TALLEYVAST SITE  
 REMEDIAL ACTION PLAN IMPLEMENTATION  
 GROUND WATER TREATMENT  
**ELECTRICAL DUCT BANK SECTIONS -  
 OFF-SITE WELLS**  
 ELECTRICAL

PROJECT NO:	60189799
CAD DWG FILE:	E-551
DESIGNED BY:	SRS
DRAWN BY:	SRS
DEPT CHECK:	PBW
PROJ CHECK:	TVC
DATE:	FEBRUARY 2012
SCALE:	AS NOTED

**E-551**  
 SHEET - OF -  
**SHEET LM 14**

**PLAN NOTES:**

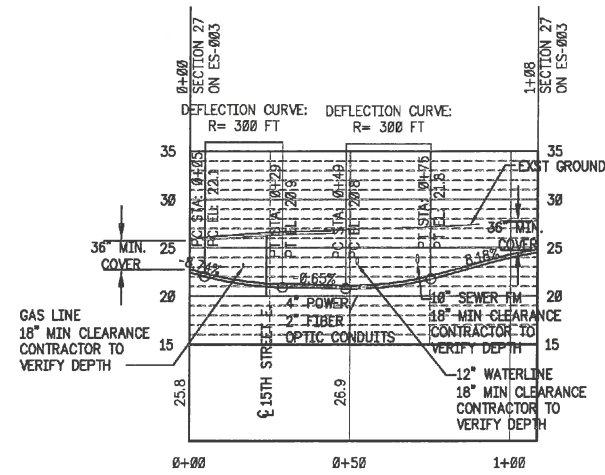
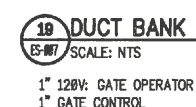
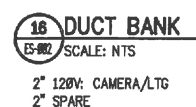
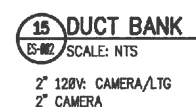
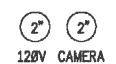
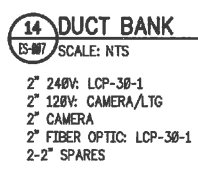
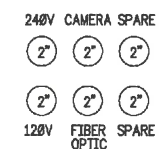
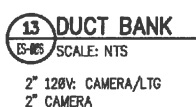
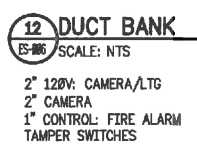
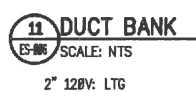
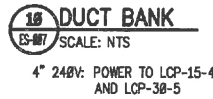
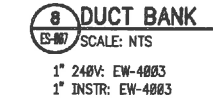
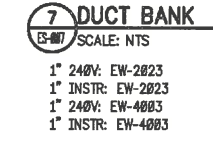
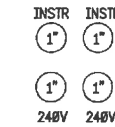
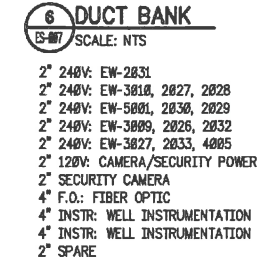
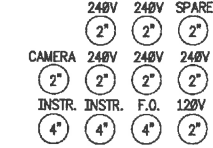
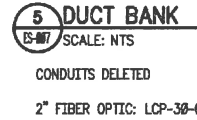
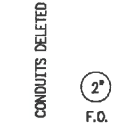
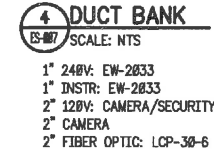
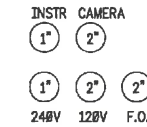
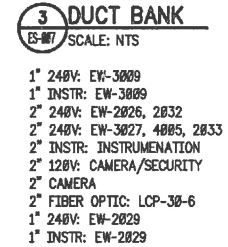
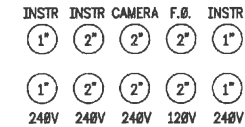
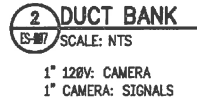
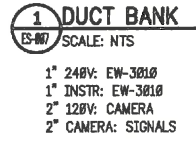
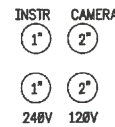
- CONDUIT(S) PROVIDED BY PIPING CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE PVC ELBOW(S) AND RISER CONDUIT(S) UP TO LCP.
- SEE DETAIL E-552

**GENERAL NOTES:**

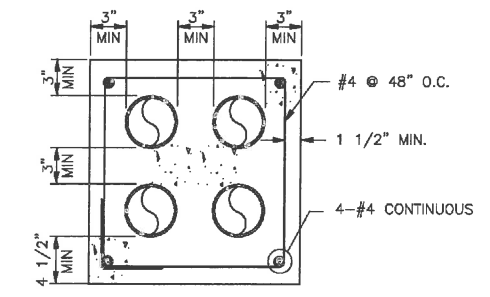
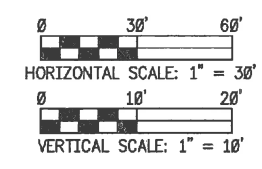
- SEE DRAWING C-110, C-514 AND C-515 FOR CONDUITS INSTALLED BY PIPING CONTRACTOR.

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 ANSI D - 7-10m-13



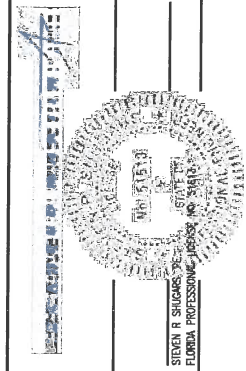


**2 PROFILE OF SECTION 27 ON E-551**  
E-551 SCALE: 1"=30' (HORIZONTAL) 1"=10' (VERTICAL)



**1 DUCT BANK CONCRETE ENCASEMENT DETAIL**  
ES-007 SCALE: NTS

NO.	DATE	BY	CHKD.	DESCRIPTION
2	2/1/13	SRS		ISSUED AS RECORD DRAWING
1	03/09/12	SRS		REVISION TO ADD DATE, SECURITY LIGHTS, AND CAMERA CONDUITS
0	02/06/12	SRS		IFC C&C PACKAGE



**AECOM**  
AECOM TECHNICAL SERVICES, INC.  
320 EAST SOUTH STREET  
TALLAHASSEE, FLORIDA 32301  
PHONE 904.465.1100  
CERTIFICATE OF AUTHORIZATION NO. EB-6115

LOCKHEED MARTIN TALLEVAIST SITE  
REMEDIAL ACTION PLAN IMPLEMENTATION  
GROUND WATER TREATMENT  
**ELECTRICAL DUCT BANK SECTIONS**  
ELECTRICAL

PROJECT NO:	60189799
CAD DWG FILE:	E-552
DESIGNED BY:	SRS
DRAWN BY:	SRS
DEPT CHECK:	PBW
PROJ CHECK:	TVC
DATE:	FEBRUARY 2012
SCALE:	AS NOTED

PLOT DATE: Monday, January 07, 2013 3:46:03 PM  
 PLOT FILE: E:\Projects\2012\Lockheed Martin\Tallevaist\Site Remedial Action Plan Implementation\Ground Water Treatment\Electrical Duct Bank Sections\E-552.dwg  
 PLOTTER: Blackfoot  
 ANSI D - 7-10-13