



**NEAL PRESERVE
FROM CAUSEWAY PATH
BOARDWALK
COVER SHEET**

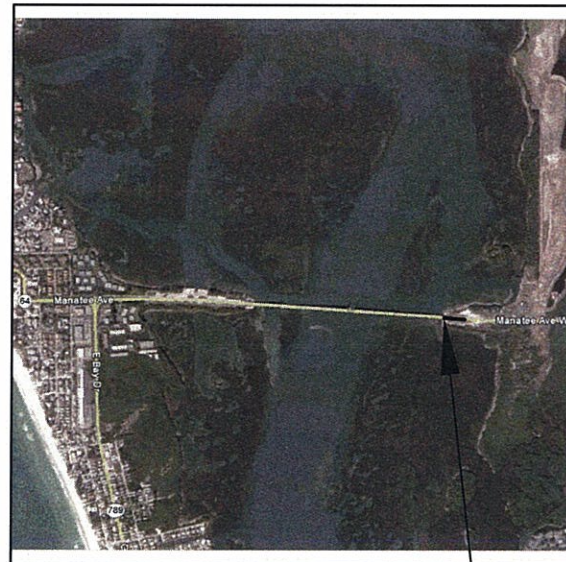


MANATEE COUNTY, FLORIDA

NEAL PRESERVE TRAIL FROM CAUSEWAY PATH BOARDWALK

FINANCIAL PROJECT ID 428133-1-58-01 (FEDERAL FUNDS)

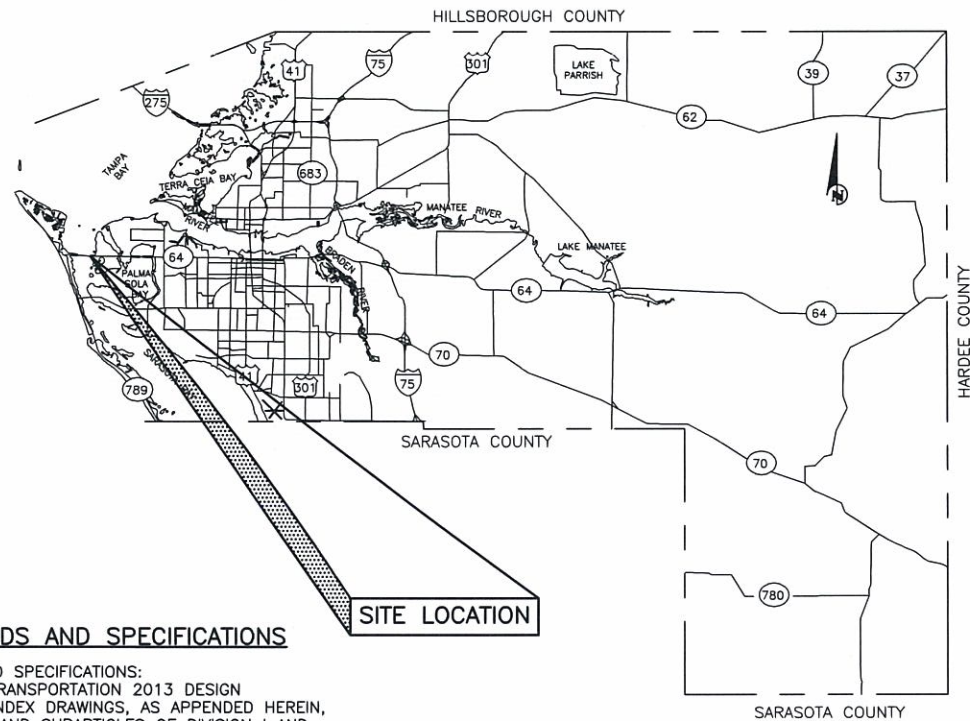
100% PLANS



VICINITY MAP
N.T.S.



PROJECT SITE



SITE LOCATION

NO.	INDEX OF SHEETS
1	COVER SHEET
2-4	HORIZONTAL & VERTICAL CONTROL
5	GENERAL NOTES
6	QUANTITY SHEET
7	TYPICAL SECTIONS
8-12	PLAN & PROFILE AND EROSION CONTROL PLAN
13-21	CROSS SECTIONS

NO.	DATE	REVISION DESCRIPTION

PROJECT DESCRIPTION

CONNECT NEAL PRESERVE TO EXISTING SIDEWALK ON NORTH SIDE OF SR 64 WITH APPROXIMATELY 2,080 LF OF 10' TRAIL & 79 LF OF 8' TRAIL UNDER THE BRIDGE.

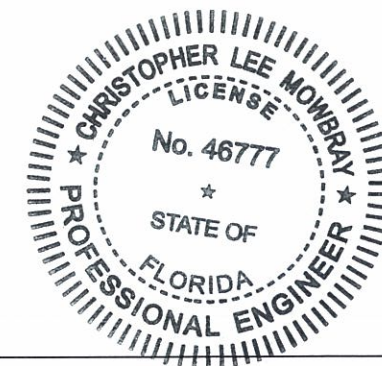
RELATED STANDARDS AND SPECIFICATIONS

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION 2013 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 2013 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/RDESIGN/](http://www.dot.state.fl.us/RDESIGN/)

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



Know what's below
Call before you dig

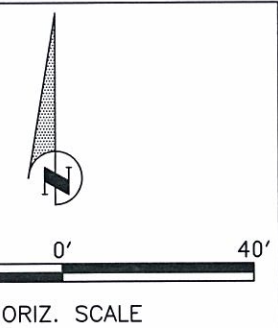
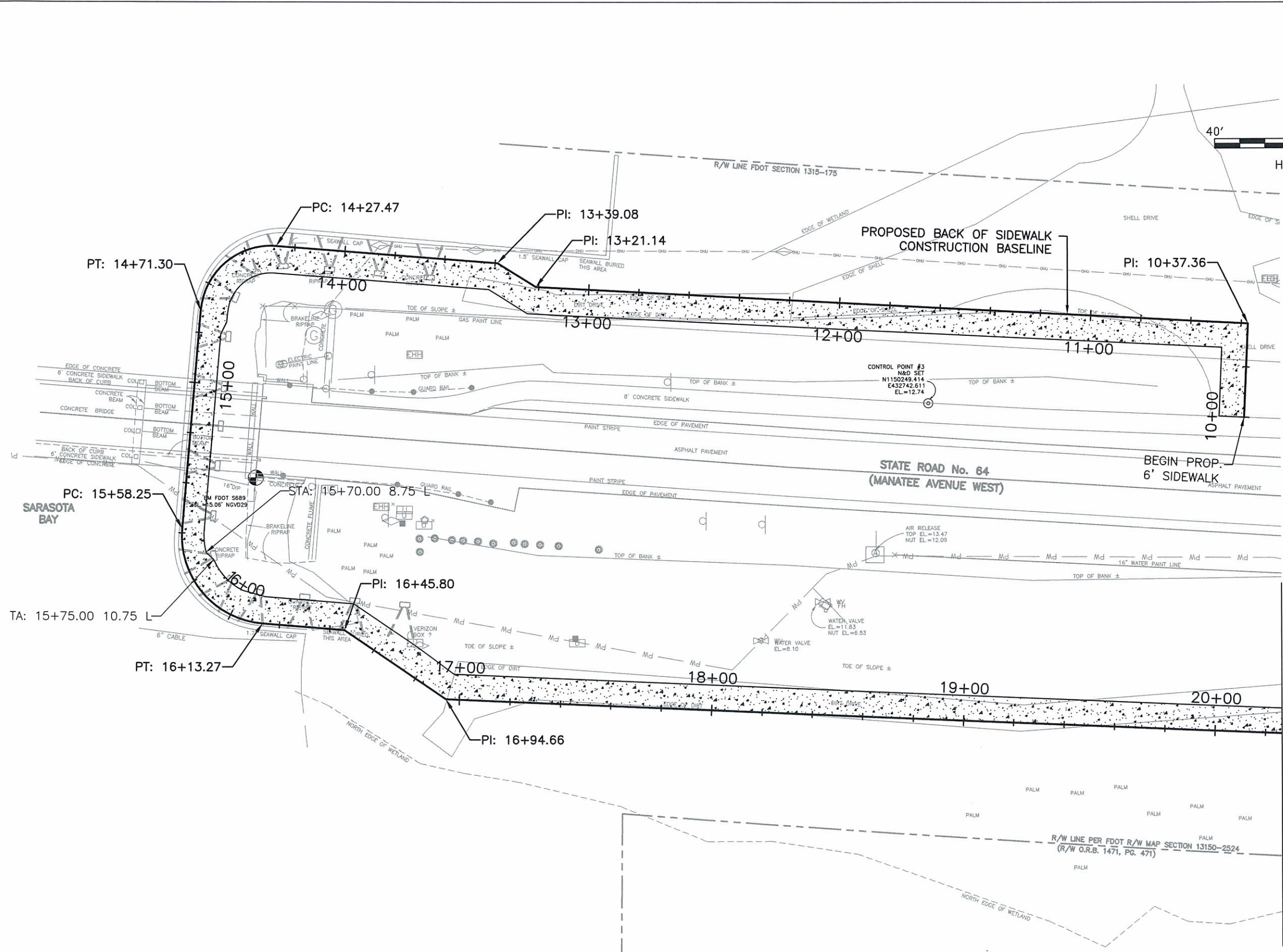
PROJECT #	428133-1-58-01	
SURVEY #	000	
SEC./TWN./RGE	28/34S/16E	
SCALE	1"=XX'	
	BY	DATE
SURVEYED	----	00/00/00
DESIGNED	AM	08/10/11
DRAWN	AM	08/10/11
CHECKED	----	00/00/00

CHRISTOPHER LEE MOWBRAY P.E.
FLORIDA P.E. # 46777

Signature & Date

S:\PWB_Engineering_Share\Highway_Engineering\DOT_Projects\Neal_Preserve_Trail\DWG_COVER_SHEET.dwg, 11x17 - Cover, 2/9/2013, 3:11 PM, Gregory Benkhman, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

**NEAL PRESERVE
FROM CAUSEWAY PATH
BOARDWALK
HORIZONTAL & VERTICAL CONTROL**



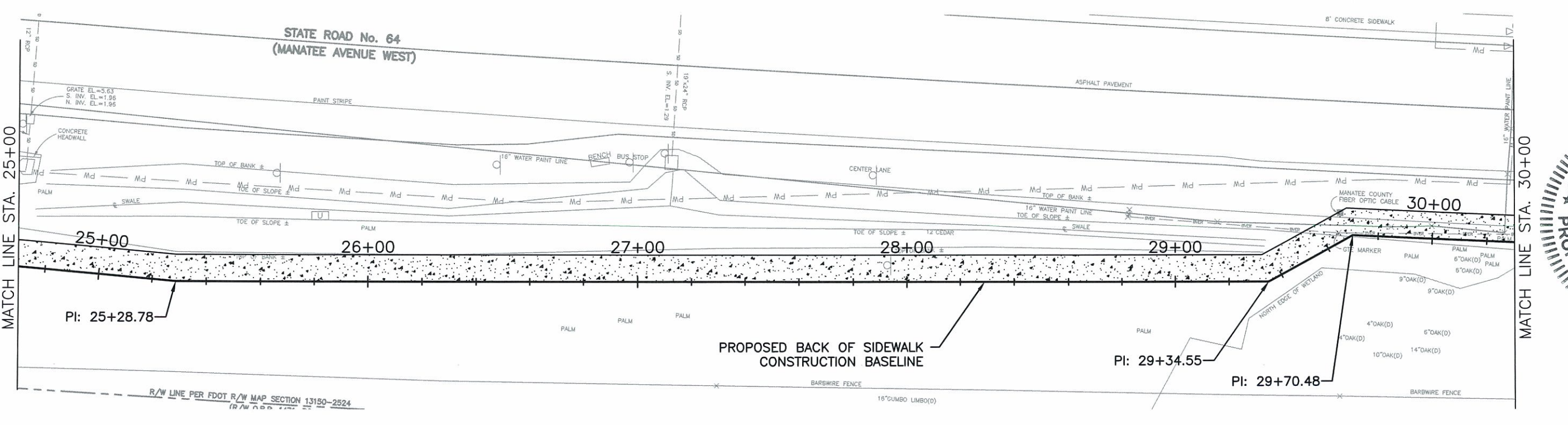
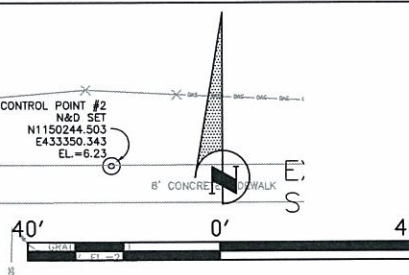
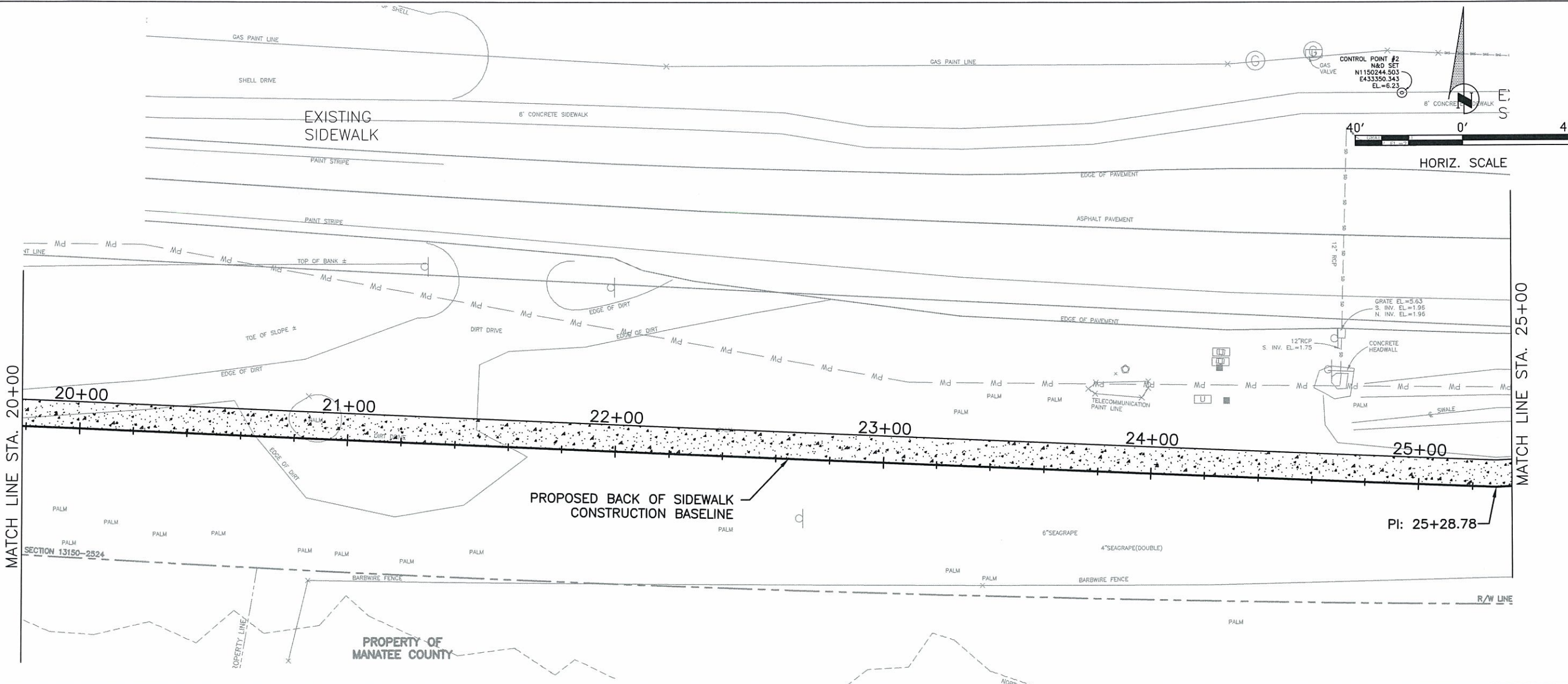
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REVISION DESCRIPTION	BY	DATE

CHRISTOPHER LEE MOWBRAY
LICENSE # 46777
PROFESSIONAL ENGINEER
STATE OF FLORIDA

PROJECT # 11-23-1
NOV 06/11 20
SEC./TWN./RGE 28/34/16E
SCALE 1"=40'
SURVEYED 06/08/00
DESIGNED 08/10/11
DRAWN 08/10/11
CHECKED 00/00/00

CHRISTOPHER LEE MOWBRAY P.E.
FLORIDA P.E. # 46777
Christopher Lee Mowbray
2/11/13
Signature & Date



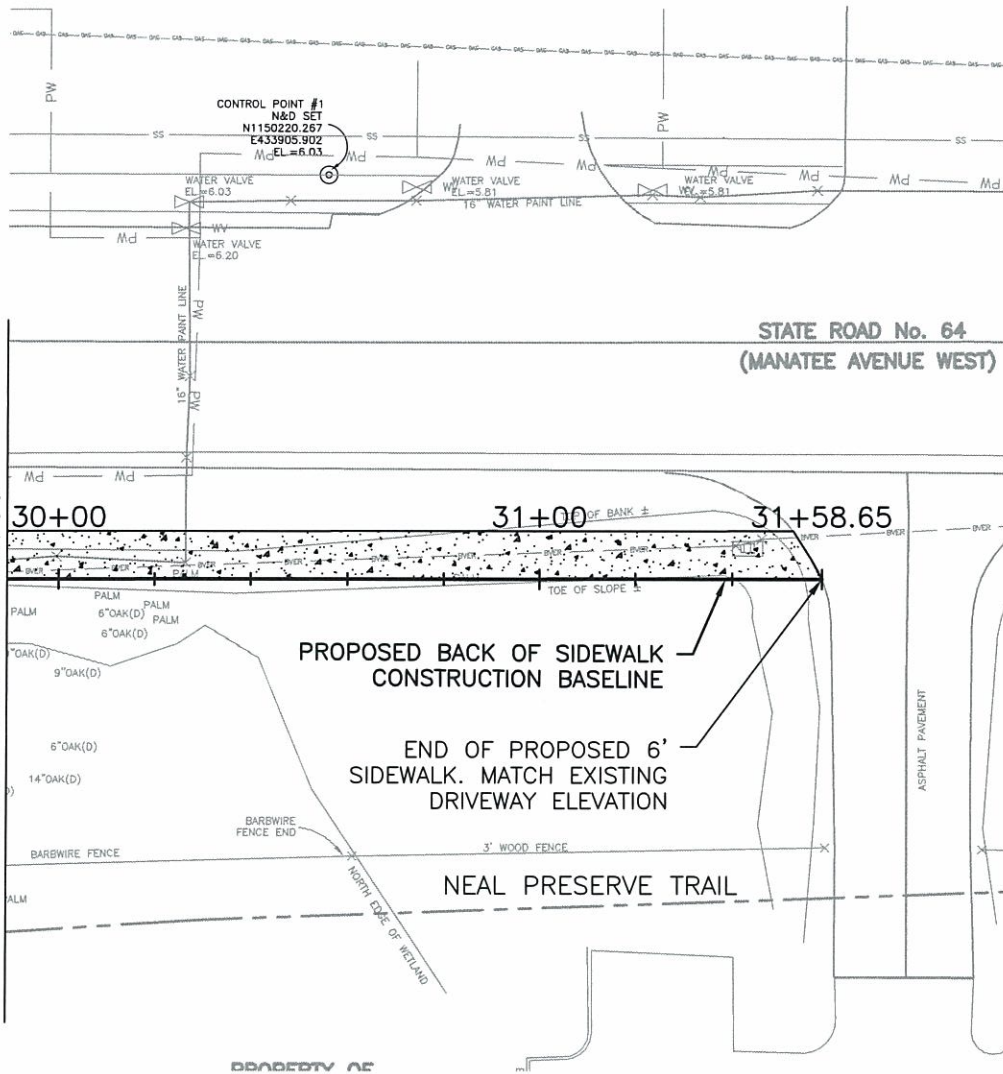
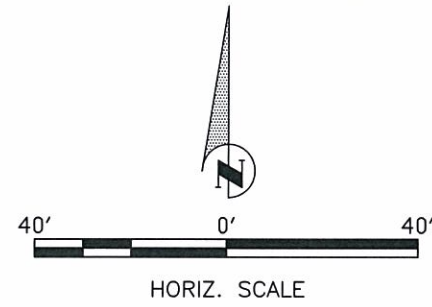
**NEAL PRESERVE
FROM CAUSEWAY PATH
BOARDWALK
HORIZONTAL & VERTICAL CONTROL**

REVISION	DESCRIPTION	BY	DATE

PROJECT # **FM 13-281**
 SURVEYED **00/00**
 SEC./TWN./RGE **28/54S/16E**
 SCALE **1"=XX'**
 STATE OF **FLORIDA** BY **00/00** DATE **00/00**
 DESIGNED **AM** DRAWN **AM**
 CHECKED **AM**
CHRISTOPHER LEE MOWBRAY P.E.
 FLORIDA P.E. # **46777**
Christopher Lee Mowbray
2/11/19
 Signature & Date

S:\PW\Engineering\Share\Highway\Engineering\FDOT\Projects\Neal Preserve\Trail\VDWG\11-16-12.dwg H.L.V. Sta. 20+00 to 30+00, 2/8/2013 3:12 PM George Berthman, I.T. ANSI Full bleed B (17.00 x 11.00 inches)

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Neal Preserve Trail Construction Baseline Station and Curve Report

Alignment: Neal_SideW

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	10+00.00	1150243.7	432868.359
End:	10+37.36	1150281.03	432869.9742
Parameter	Value	Parameter	Value
Length:	37.36	Course:	N 02° 28' 39" E

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	10+37.36	1150281.03	432869.9742
End:	13+21.14	1150295.581	432586.5735
Parameter	Value	Parameter	Value
Length:	283.77	Course:	N 87° 03' 38" W

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	13+21.14	1150295.581	432586.5735
End:	13+39.08	1150305.1	432571.3626
Parameter	Value	Parameter	Value
Length:	17.94	Course:	N 57° 57' 40" W

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	13+39.08	1150305.1	432571.3626
End:	14+27.47	1150311.726	432483.2286
Parameter	Value	Parameter	Value
Length:	88.38	Course:	N 85° 42' 03" W

Description	Curve Point Data		
	Station	Northing	Easting
PC:	14+27.47	1150311.726	432483.2286
RP:		1150283.805	432481.1296
PT:	14+71.30	1150286.051	432453.2198
Parameter	Value	Parameter	Value
Delta:	89° 41' 53"	Type:	LEFT
Radius:		28	
Length:	43.83	Tangent:	27.85
Mid-Ord:	8.15	External:	11.49
Chord:	39.49	Course:	S 49° 27' 00" W

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	14+71.30	1150286.051	432453.2198
End:	15+58.25	1150199.377	432446.2446
Parameter	Value	Parameter	Value
Length:	86.95	Course:	S 04° 36' 04" W

Description	Curve Point Data		
	Station	Northing	Easting
PC:	15+58.25	1150199.377	432446.2446
RP:		1150196.569	432481.1318
PT:	16+13.27	1150161.679	432478.3602
Parameter	Value	Parameter	Value
Delta:	90° 03' 33"	Type:	LEFT
Radius:		35	
Length:	55.01	Tangent:	35.04
Mid-Ord:	10.26	External:	14.52
Chord:	49.52	Course:	S 40° 25' 43" E

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	16+13.27	1150161.679	432478.3602
End:	16+45.80	1150159.103	432510.7847
Parameter	Value	Parameter	Value
Length:	32.53	Course:	S 85° 27' 29" E

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	16+45.80	1150159.103	432510.7847
End:	16+94.66	1150131.73	432551.2645
Parameter	Value	Parameter	Value
Length:	48.87	Course:	S 55° 55' 57" E

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	16+94.66	1150131.73	432551.2645
End:	25+28.78	1150097.282	433384.6667
Parameter	Value	Parameter	Value
Length:	834.11	Course:	S 87° 37' 59" E

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	25+28.78	1150097.282	433384.6667
End:	29+34.55	1150117.302	433789.9496
Parameter	Value	Parameter	Value
Length:	405.78	Course:	N 87° 10' 19" E

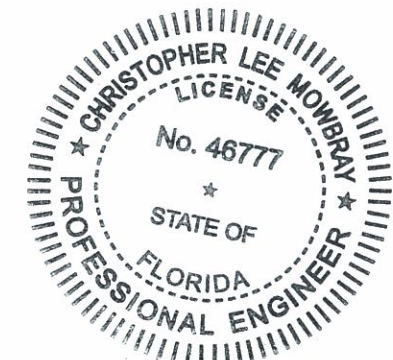
Description	Tangent Data		
	PT Station	Northing	Easting
Start:	29+34.55	1150117.302	433789.9496
End:	29+70.48	1150136.071	433820.5807
Parameter	Value	Parameter	Value
Length:	35.92	Course:	N 58° 30' 09" E

Description	Tangent Data		
	PT Station	Northing	Easting
Start:	29+70.48	1150136.071	433820.5807
End:	31+58.65	1150136.189	434008.7553
Parameter	Value	Parameter	Value
Length:	188.17	Course:	N 89° 57' 51" E



**NEAL PRESERVE
FROM CAUSEWAY PATH
BOARDWALK
HORIZONTAL & VERTICAL CONTROL**

NO.	DATE	BY	REVISION DESCRIPTION



PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=XX'
SURVEYED	----- 00/00/00
DESIGNED	AM 08/10/11
DRAWN	AM 08/10/11
CHECKED	----- 00/00/00
CHRISTOPHER LEE MOWBRAY P.E.	
FLORIDA P.E. # 46777	
 2/11/13 Signature & Date	
SHEET 4	

GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE ENGINEER.
2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE ENGINEER.
3. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NATIONAL GEODETIC VERTICAL DATUM OF 1929", (NGVD '29).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED. THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INCLUDE ALL PERMITS AND CERTIFICATIONS.
6. 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.
7. 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.
8. NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM.
9. ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
10. THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
11. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
12. THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES. NOTE:

SAFETY

- 14. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
15. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

RIGHT-OF-WAY

- 21. 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.
22. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS INDEX 600 & 601.
23. 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.
24. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT. ROADWAY PLANS AND PROPOSED DESIGN ARE BASED ON TOPOGRAPHIC SURVEYS PROVIDED BY MANATEE COUNTY PROJECT MANAGEMENT AND ZOLLAR NAJJAR & SHROYER UNDER COUNTY PROJECT NO'S 334-6001060 AND 319-6045661. REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.
25. 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.

UTILITIES

- 26. 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 VVH ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE 16" WATERLINE.

- 27. 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.
28. 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.
29. EXCEPT WERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT. ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
30. 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.
31. 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 DLCA ROSIER, WITH UTILITY RECORDS (941-792-8811 EXT. 5059). CONSTRUCTION PLAN INFORMATION FOR PROJECTS UNDER CONSTRUCTION WITH THE COUNTY'S TRAFFIC MANAGEMENT CENTER ARE AVAILABLE AT WWW.MANATEEATMS.COM AND WWW.MANATEEATMS2.COM.

DRAINAGE AND GRADING

- 32. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
33. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER. 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 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 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 (NWLs), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
34. ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION.
35. 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.
36. 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.
37. 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 ENGINEER.
38. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS. ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO CHRIS MOWBRAY, P.E. 1022 26TH AVENUE EAST BRADENTON, FLORIDA 34208.
39. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
40. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
41. 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.
42. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
43. 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.
44. 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.

CONTACTS

- MANATEE COUNTY PUBLIC WORKS DEPT. INFRASTRUCTURE ENGINEERING WAYNE TROXLER, P.E. 1022 26TH AVENUE EAST BRADENTON, FL 34208 (941) 708-7450 EXT. 7650 FAX: (941) 708-7431
VERIZON FLORIDA INC. WAYNE SUMNER 1701 RINGLING BLVD. SARASOTA, FL 34236 (941) 330-9203 WAYNE.SUMNER@verizon.com
FLORIDA POWER & LIGHT GREG COKER 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE Greg.Coker@fpl.com
MANATEE COUNTY HEALTH DEPT. HARRY MESSICK 410 6th AVENUE EAST BRADENTON, FL 34208(941) 748-0747 EXT. 1355 FAX: (941) 750-9364
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE DARYL R. FLATT, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL 34240 (941) 377-3722 FAX: (941) 373-7660
FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON RD. TAMPA, FL 33634 CHRIS LEE (813) 466-3327 CELL : (727) 639-7512 christopher.lee@sug.com
BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON, FL 34208-5535 (941) 748-3816 EXT. 21348 TOM.WRIGHT@MYBRIGHTHOUSE.COM
DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. 408 FAX: (813) 632-7662
PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660 kendell.coker@preco.coop
MANATEE COUNTY PUBLIC WORK DEPT. TRAFFIC ENGINEERING MICHAEL O'REILLY, P.E. (941) 749-3500 EXT. 7859 FAX: (941) 749-3571

EXISTING

- BENCH MARK
CONCRETE MONUMENT
IRON PIPE
IRON ROD
HUB
NAIL & DISK
ELEVATION
PARCEL ID NO.
LOT NO.
GUY WIRE
POWER POLE
LIGHT POLE
MAIL BOX
SIGN
REFLECTOR
SPRINKLER
GAS MARKER
BACKFLOW PREVENTER
BLOW OFF VALVE
FIRE HYDRANT
WATER VALVE
AIR RELEASE VALVE
WATER METER
SANITARY SEWER MANHOLE
SANITARY SEWER CLEAN OUT
SOIL BORING LOCATION
TELEPHONE SERVICE BOX
FLOW DIRECTION
GRATE INLET
MITERED END SECTION

LEGEND

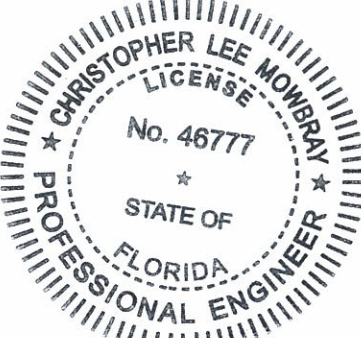
- BUSH
TREE
OAK TREE
PALM TREE
PINE TREE
EDGE OF VEGETATION
CHAIN LINK FENCE
WOOD FENCE
BARBED WIRE FENCE
FORCE MAIN
POTABLE WATER
RECLAIMED WATER
SANITARY SEWER
STORM DRAIN
GAS LINE
OVERHEAD_CABLE_TV
BURIED_CABLE_TV
OVERHEAD ELECTRIC
BURIED ELECTRIC
OVERHEAD VERIZON
BURIED VERIZON
VERIZON
BURIED UTILITY
OVERHEAD UTILITY
RAIL ROAD TRACKS
EDGE OF CONCRETE
EDGE OF ROAD
TOE OF SLOPE
TOP OF BANK
PROPERTY LINE
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



NEAL PRESERVE FROM CAUSEWAY PATH BOARDWALK GENERAL NOTES & LEGEND

Table with columns: NO., REVISION DESCRIPTION, DATE, BY. Includes project details: PROJECT # 428133-1-58-0, SURVEY # 000, SEC./TWN./RGE 28/34S/16E, SCALE 1"=XX', and signature of Christopher Lee Mowbray, P.E., Florida P.E. # 46777.

**NEAL PRESERVE TRAIL FROM
CAUSEWAY PATH
BOARDWALK
QUANTITY SHEET**

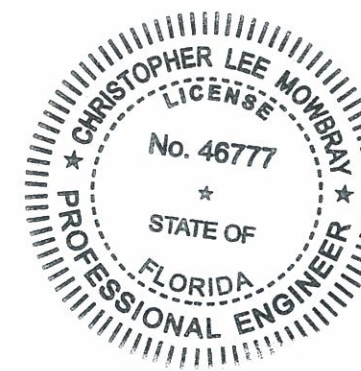
LINE NO.	FDOT. ITEM NO.		EST. QTY	U/M
1.	101-1	Mobilization	1	LS
2.	102-1	Maintenance of Traffic	1	LS
3.	104-11	Floating Turbidity Barrier	1,003	LF
4.	104-10-3	Sediment Barrier	2,003	LF
5.	110-1-1	Clearing & Grubbing Including	1	AC
6.	120-1	Regular Excavation	622	CY
7.	120-6	Embankment	100	CY
8.	120-72	Gravel Fill	23	CY
9.	121-70	Flowable Fill	23	CY
10.	515-2-302	Pedestrian/Bicycle Railing, Aluminum Only, 54" Type 1	375	LF
11.	522-1	Sidewalk Concrete 4" Thick	832	SY
12.	522-2	Sidewalk Concrete 6" Thick	2,420	SY
13.	530-1	Rip-Rap, Sand-Cement	60	CY
14.	570-1-2	Sodding (Performance Turf)	3,556	SY
15.	700-20-12	Single Post Sign, F&I, 12-20 SF	9	AS

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT # 428133-1-58-0
SURVEY # 000
SEC./TWN./RGE 28/34S/16E
SCALE 1"=40'

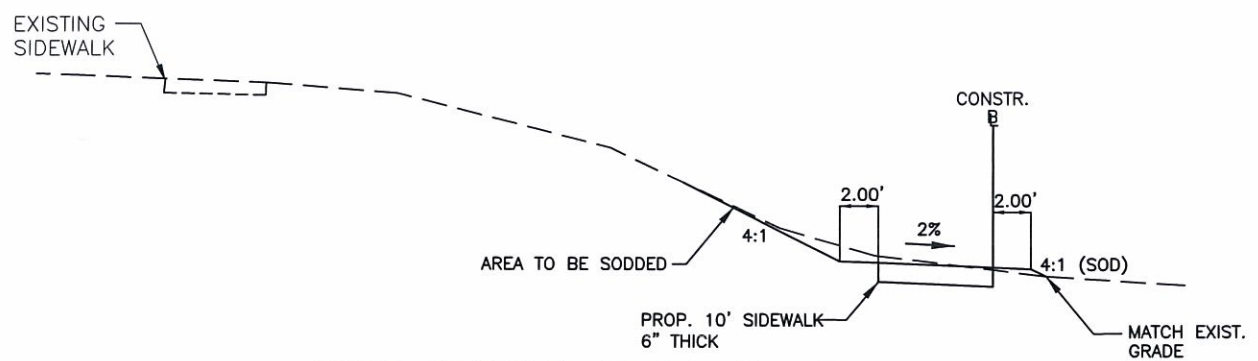
	BY	DATE
SURVEYED	-----	00/00/00
DESIGNED	AM	09/08/11
DRAWN	AM	09/17/11
CHECKED	-----	00/00/00

CHRISTOPHER LEE MOWBRAY P.E.
FLORIDA P.E. # 46777
Christopher Lee Mowbray
2/11/13
Signature & Date

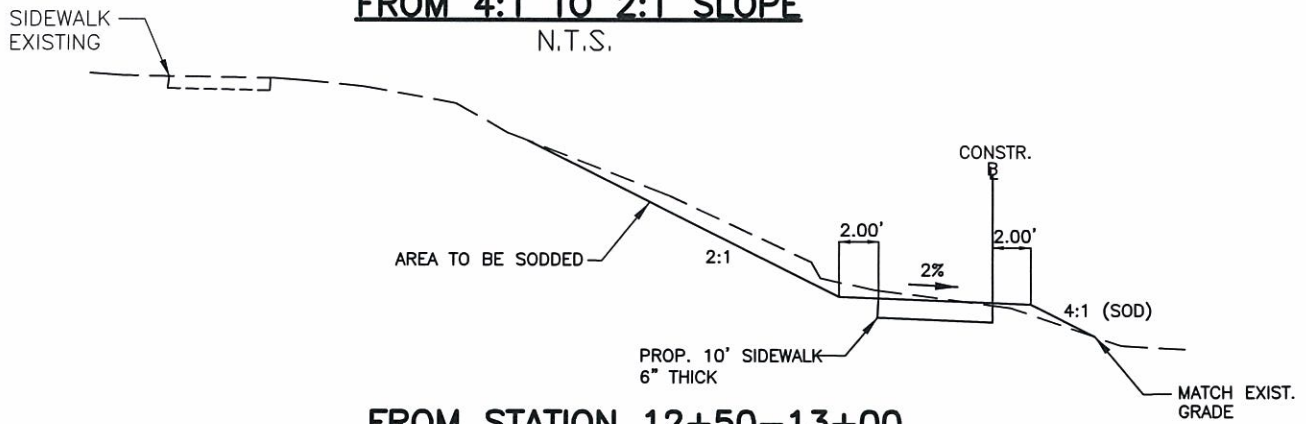


S:\P\RD_Engineering\Share\Highway_Engineering\FDOT Projects\Neal_Preserve Trail\DWG_COVER SHEET.dwg QUANTITY SHEET, 2/8/2013 3:11 PM Gregory Berahman, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

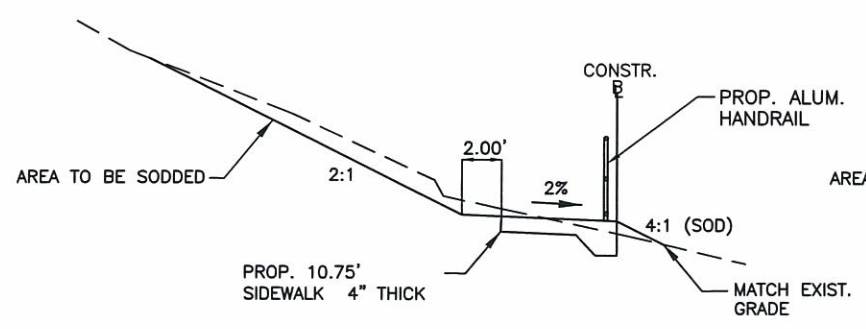
NEAL PRESERVE
FROM CAUSEWAY PATH
BOARDWALK
TYPICAL SECTIONS



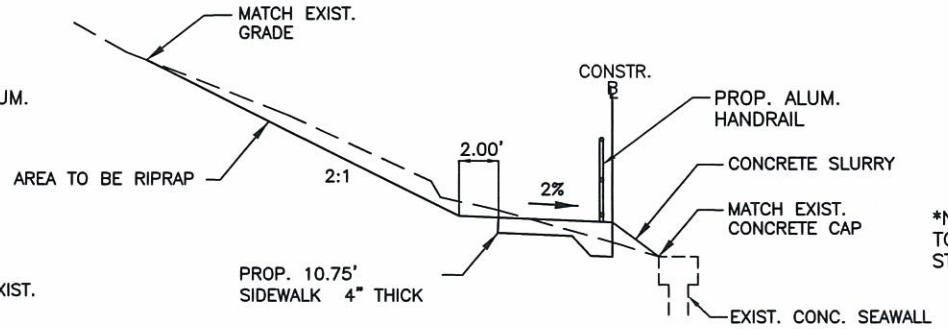
**FROM STATION 10+00-12+00
TRANS. TO STA. 12+50
FROM 4:1 TO 2:1 SLOPE**
N.T.S.



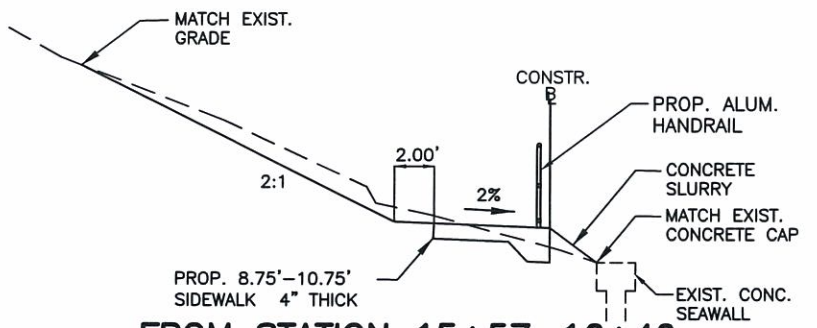
FROM STATION 12+50-13+00
N.T.S.



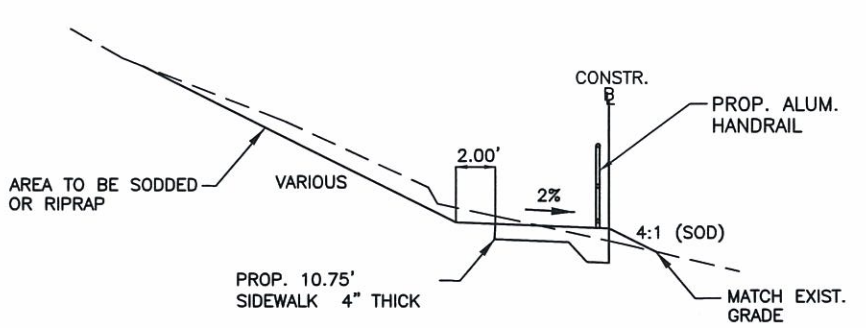
FROM STATION 13+00-13+50
N.T.S.



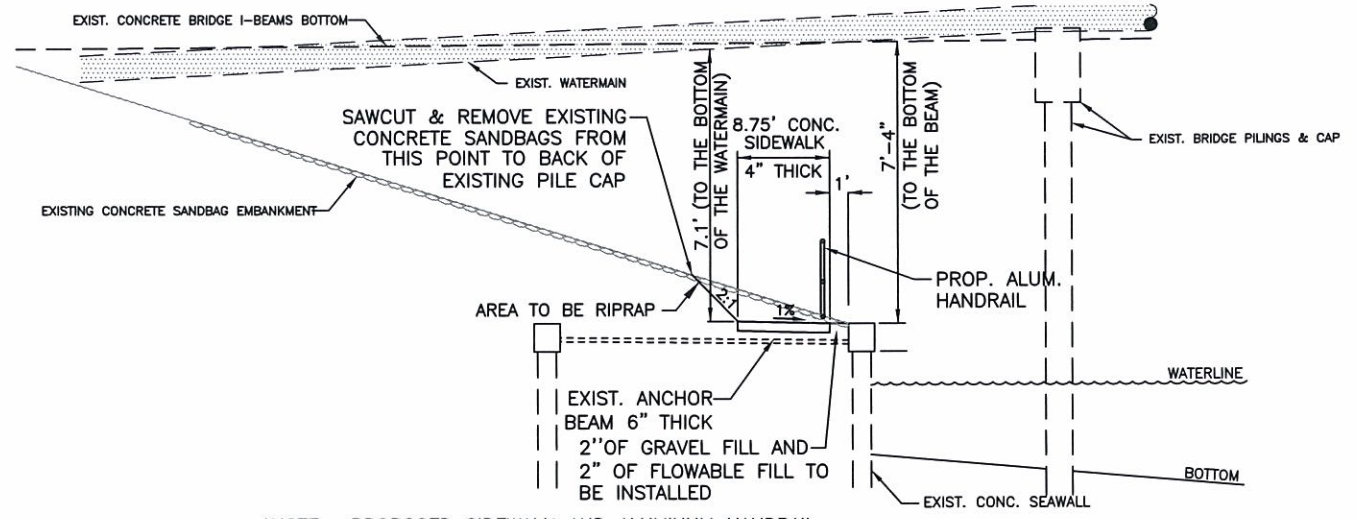
FROM STATION 13+50-14+79
N.T.S.



**FROM STATION 15+57-16+40
TRANS. TO STA. 15+75-16+40
FROM 2:1 TO 3:1 SLOPE**
N.T.S.

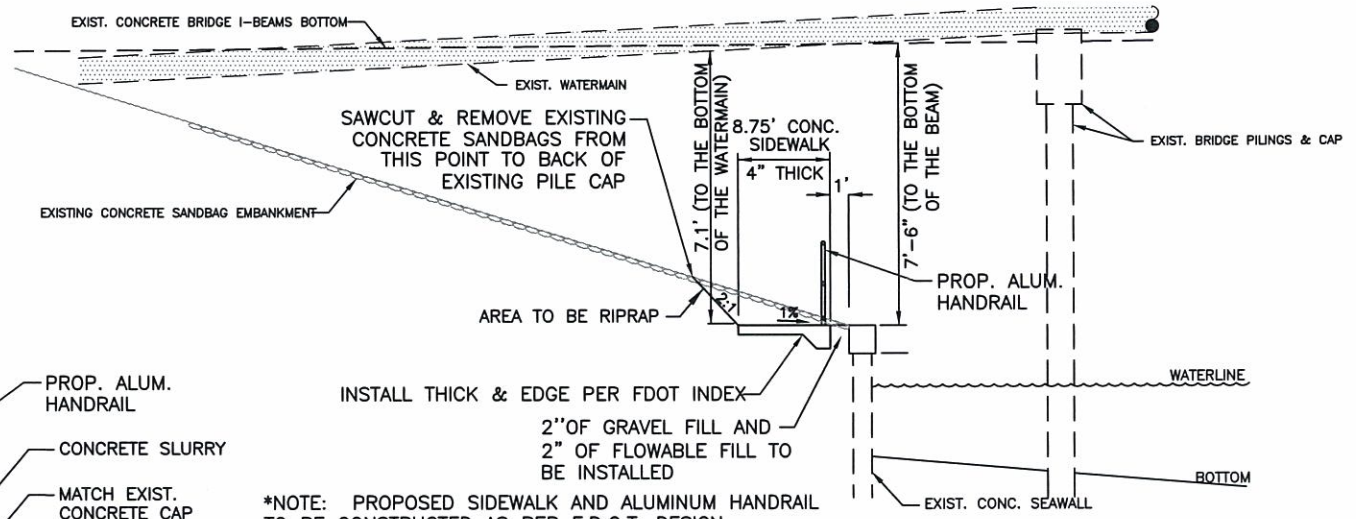


FROM STATION 16+40-16+75
N.T.S.



*NOTE: PROPOSED SIDEWALK AND ALUMINUM HANDRAIL TO BE CONSTRUCTED AS PER F.D.O.T. DESIGN STANDARDS, INDEX NO. 310 AND 862.

**AREA WITH ANCHOR BEAM
FROM STA: 14+79 TO STA: 15+57**

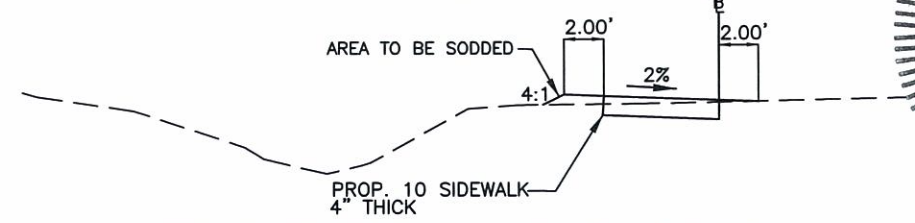


*NOTE: PROPOSED SIDEWALK AND ALUMINUM HANDRAIL TO BE CONSTRUCTED AS PER F.D.O.T. DESIGN STANDARDS, INDEX NO. 310 AND 862.

**AREA WITHOUT ANCHOR BEAM
FROM STA: 14+79 TO STA: 15+57**



FROM STATION 16+75-24+60
N.T.S.



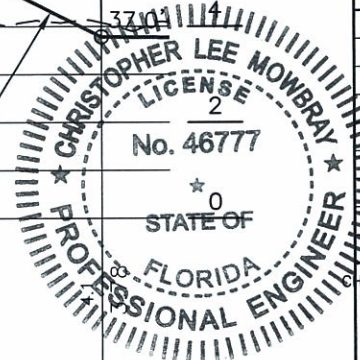
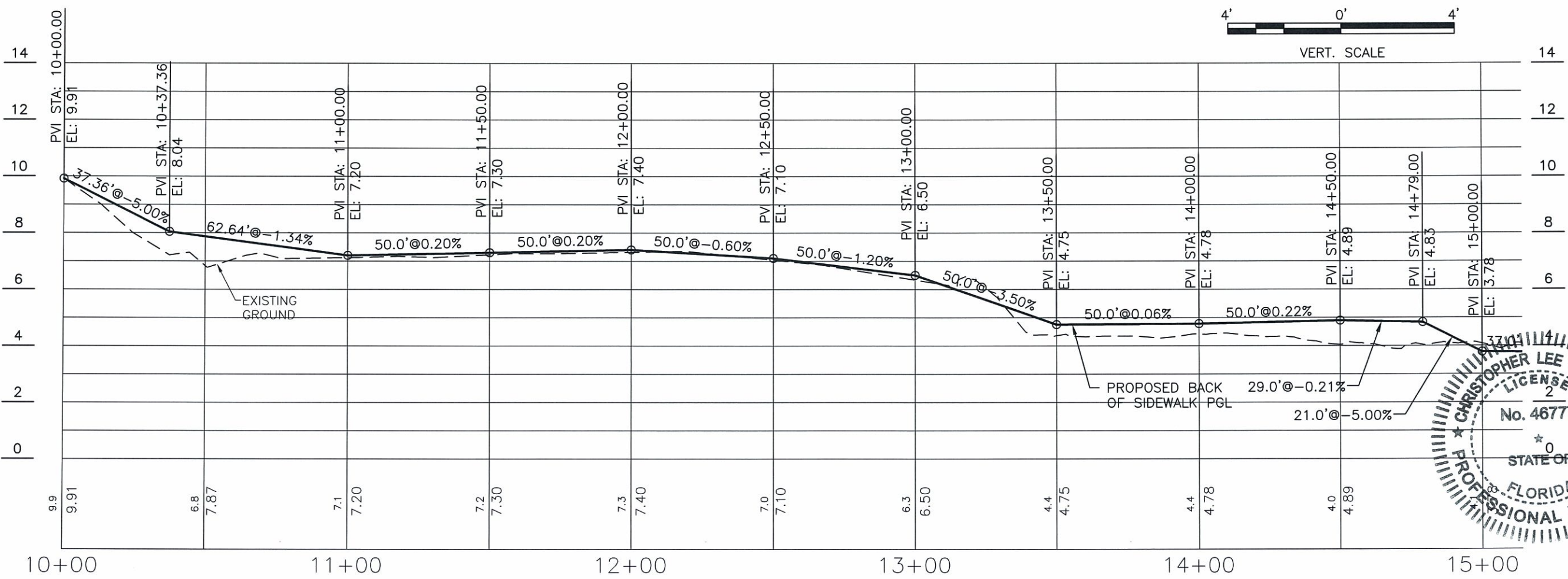
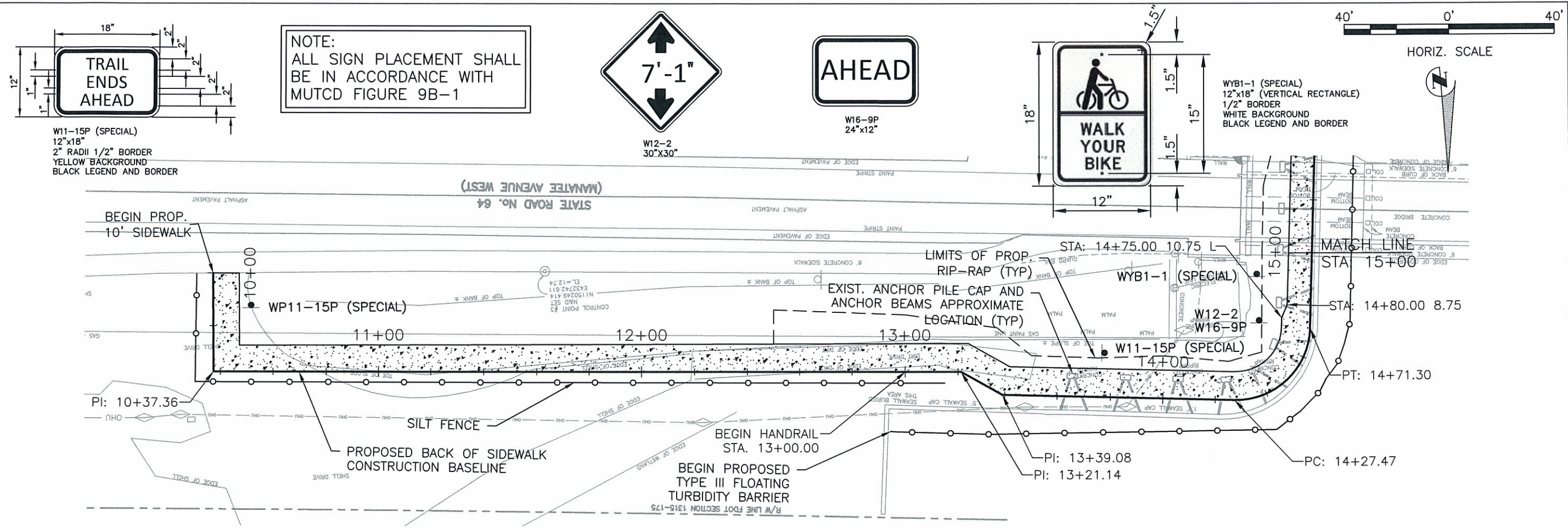
FROM STATION 24+60-31+58.65
N.T.S.

REVISION DESCRIPTION

DATE	BY	REVISION DESCRIPTION

PROJECT # 428133-1
NO. 46777
SEC./TWN./RGE. 15S/38E/16E
DATE 08/20/11
DESIGNED 08/20/11
DRAWN 08/20/11
CHECKED 08/20/11
MOYRAY P.E.
FLORIDA P.E. # 46777

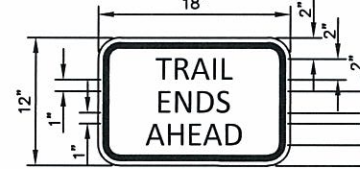
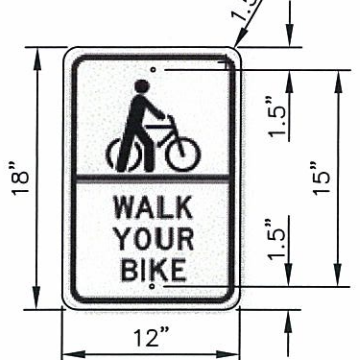
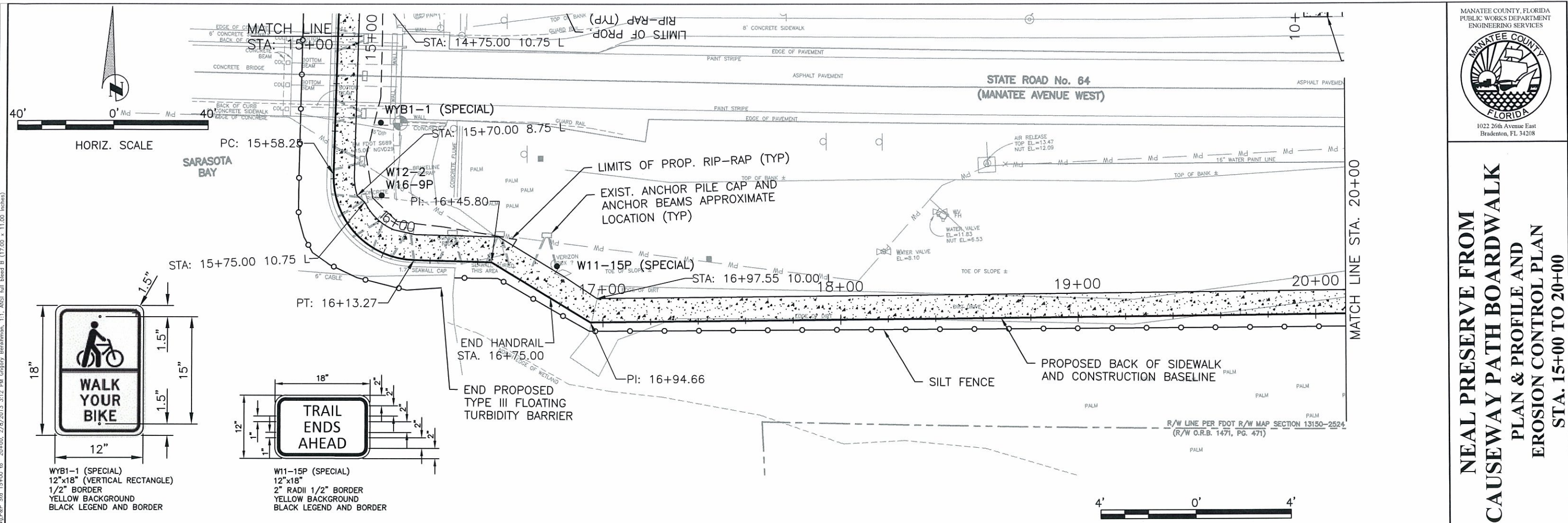
**NEAL PRESERVE FROM
CAUSEWAY PATH BOARDWALK
PLAN & PROFILE AND
EROSION CONTROL PLAN
STA. 10+00 TO 15+00**



NO.	REVISION DESCRIPTION	BY	DATE

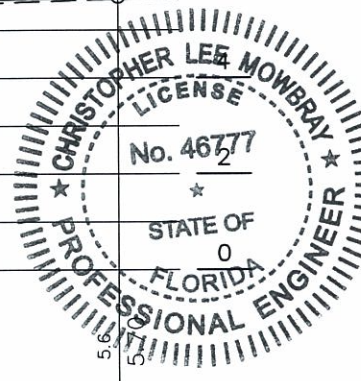
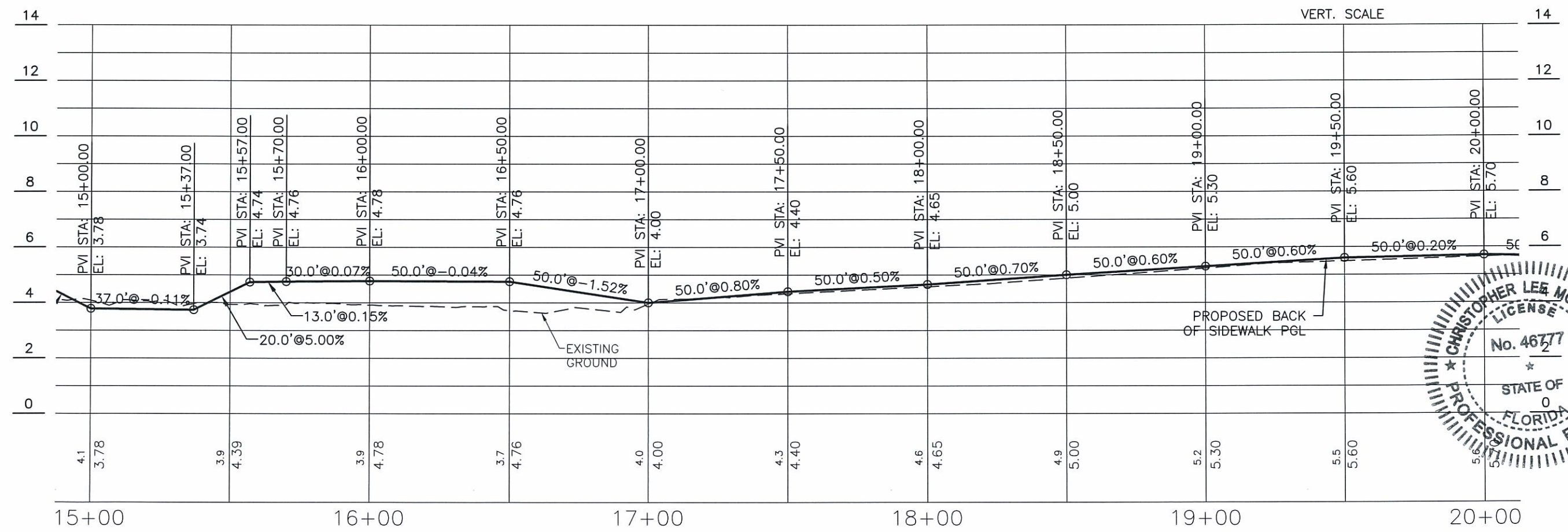
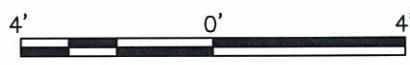
PROJECT # FM #428133-1
SURVEY # 000
SEC./TWN./RGE 28/34S/16E
SCALE 1"=40'H/1"=4'V
BY DATE
SURVEYED 00/00/00
DESIGNED AM 08/10/11
DRAWN AM 08/10/11
CHECKED 00/00/00
CHRISTOPHER LEE MOWBRAY P.E.
FLORIDA P.E. # 46777
Signature & Date
Christopher Lee Mowbray
2/11/13

S:\P\02_Engineering_Shore\Highway_Engineering\EROT Projects\Neal Preserve\Trail\DWG\EROT_P-Design_Neal_Td_11-14-12.dwg P&P Sta. 10+00 to 15+00, 2/8/2013 3:12 PM Gregory Brinkman, 1:1, ANS full bleed B (17.00 x 11.00 inches)



WYB1-1 (SPECIAL)
12"x18" (VERTICAL RECTANGLE)
1/2" BORDER
YELLOW BACKGROUND
BLACK LEGEND AND BORDER

W11-15P (SPECIAL)
12"x18"
2" RADII 1/2" BORDER
YELLOW BACKGROUND
BLACK LEGEND AND BORDER



**NEAL PRESERVE FROM
CAUSEWAY PATH BOARDWALK
PLAN & PROFILE AND
EROSION CONTROL PLAN
STA. 15+00 TO 20+00**

NO.	REVISION DESCRIPTION	BY	DATE

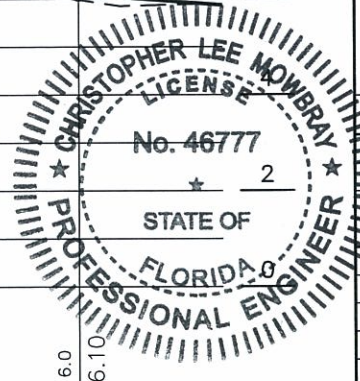
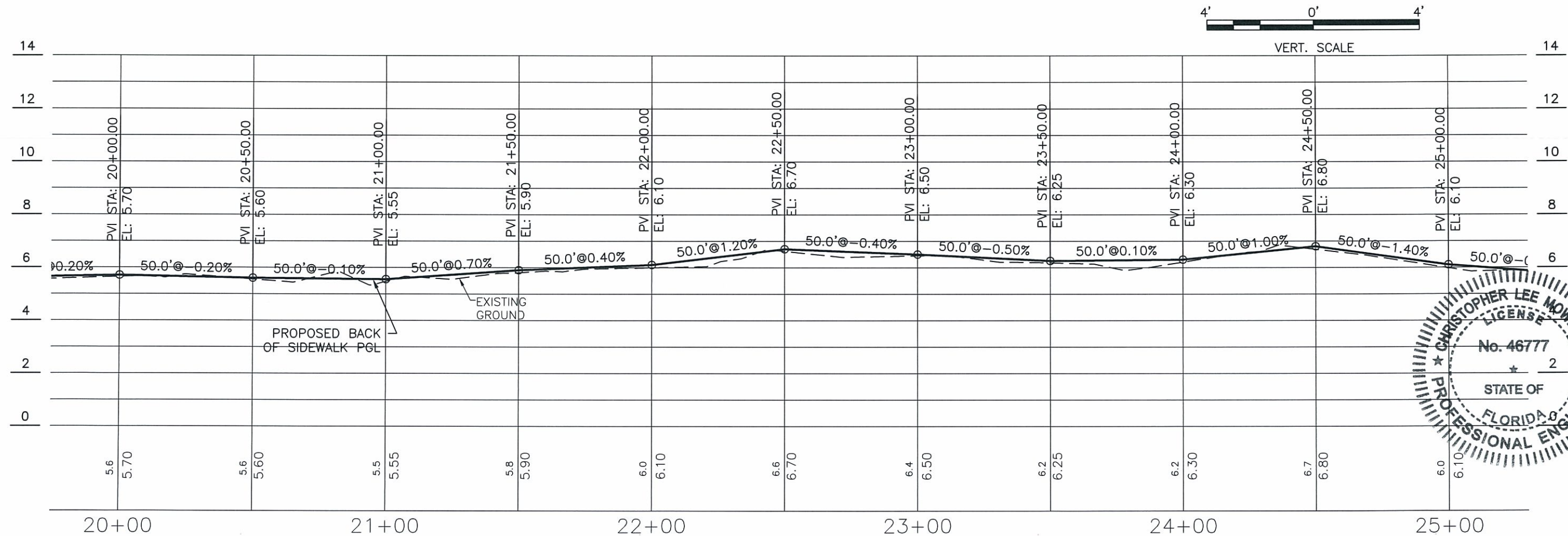
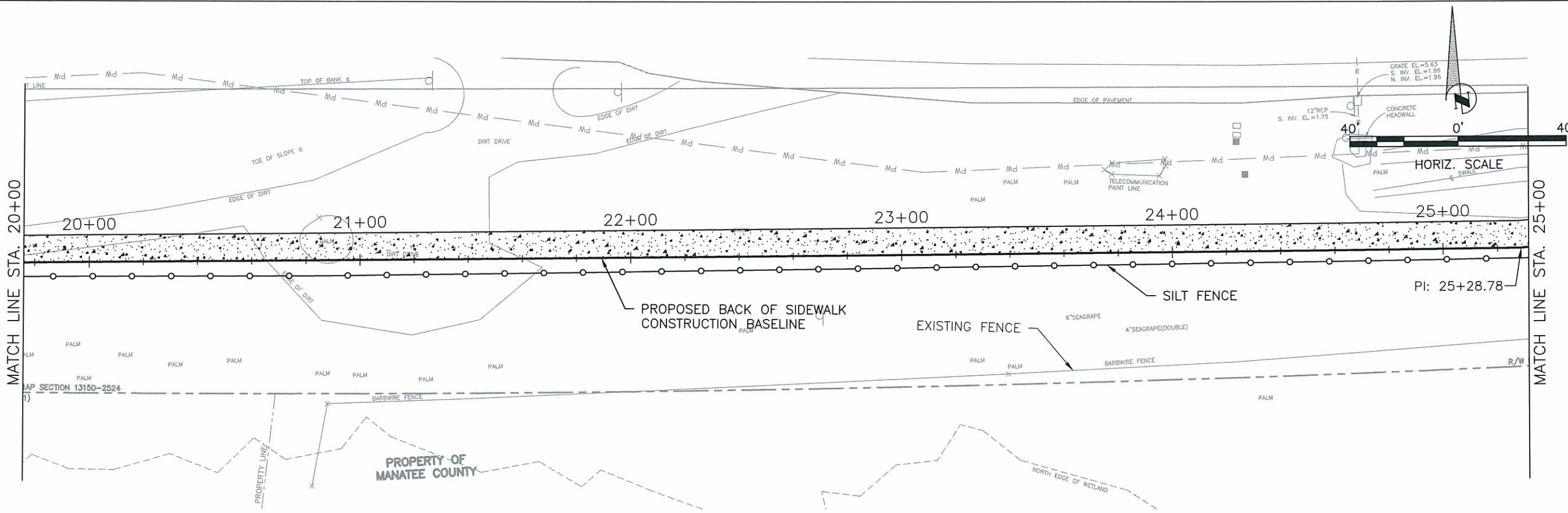
PROJECT # FM #428133-1
SURVEY # 000
SEC./TWN./RGE 28/34S/16E
SCALE 1"=40'H/1"=4'V
BY DATE
SURVEYED 00/00/00
DESIGNED AM 08/10/11
DRAWN AM 08/10/11
CHECKED 00/00/00

CHRISTOPHER LEE MOWBRAY P.E.
FLORIDA P.E. # 46777

2/17/13
Signature & Date
SHEET 9

S:\PWD_Engineering_Share\Highway_Engineering\DOT Projects\Neal Preserve Trail\DWG\Plan_Profile\Design\ Neal Trail 15+00 to 20+00.dwg 2/16/2013 3:12 PM Gregory Brinkman, 1:1, ANSI Full bleed B (17.00 x 11.00 inches)

**NEAL PRESERVE FROM
CAUSEWAY PATH BOARDWALK
PLAN & PROFILE AND
EROSION CONTROL PLAN
STA. 20+00 TO 25+00**



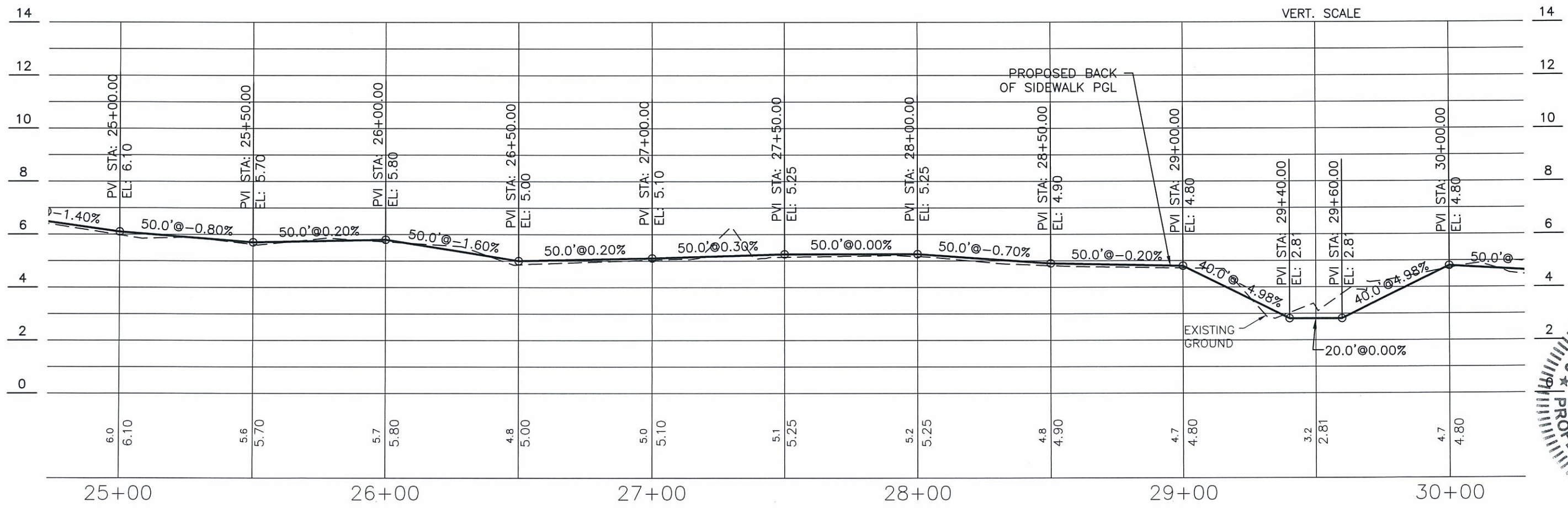
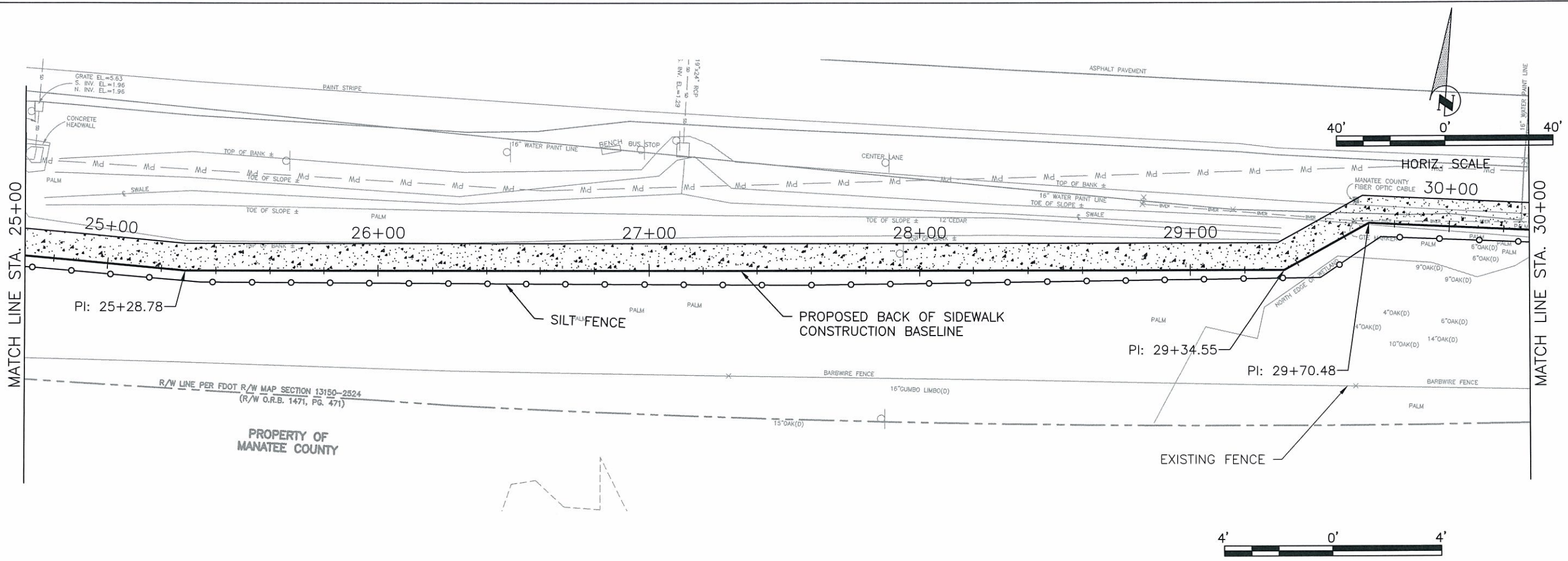
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=40'H/1"=4'V
SURVEYED	00/00/00
DESIGNED	AM 08/10/11
DRAWN	AM 08/10/11
CHECKED	00/00/00

CHRISTOPHER LEE MOWBRAY P.E.
FLORIDA P.E. # 46777
Christopher Lee Mowbray
2/11/13
Signature & Date

S:\PWD_Engineering_Share\Highway_Engineering\F007 Projects\Neal Preserve Trail\DWG\2-Design\Neal Tr. 11-14-12.dwg P&P Sta. 20+00 to 25+00, 2/8/2013 3:12 PM Gregory Brinkman, 1:1, ACSI Full bleed B (17.00 x 11.00 inches)

**NEAL PRESERVE FROM
CAUSEWAY PATH BOARDWALK
PLAN & PROFILE AND
EROSION CONTROL PLAN
STA. 25+00 TO 30+00**

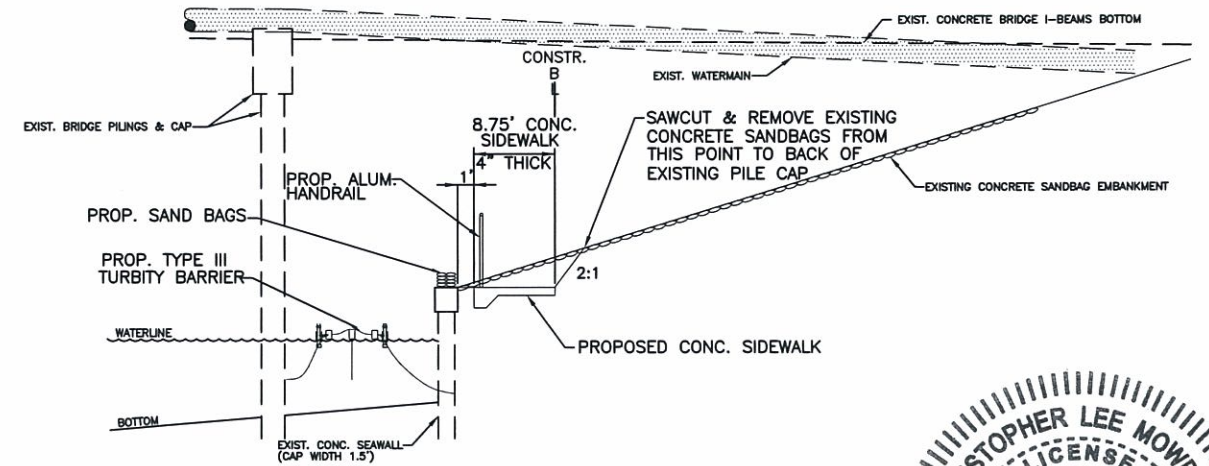
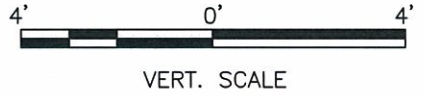
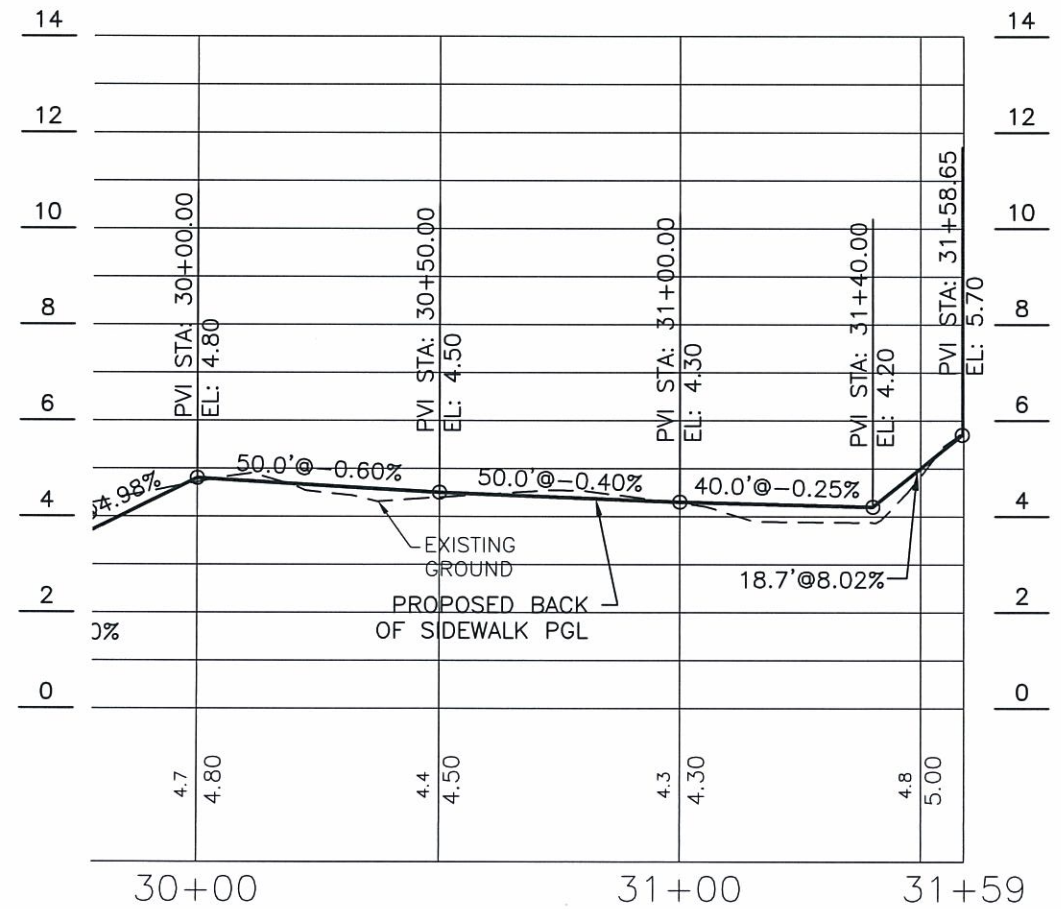
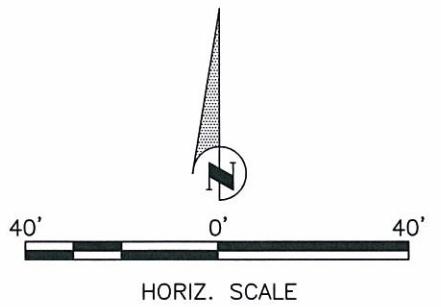
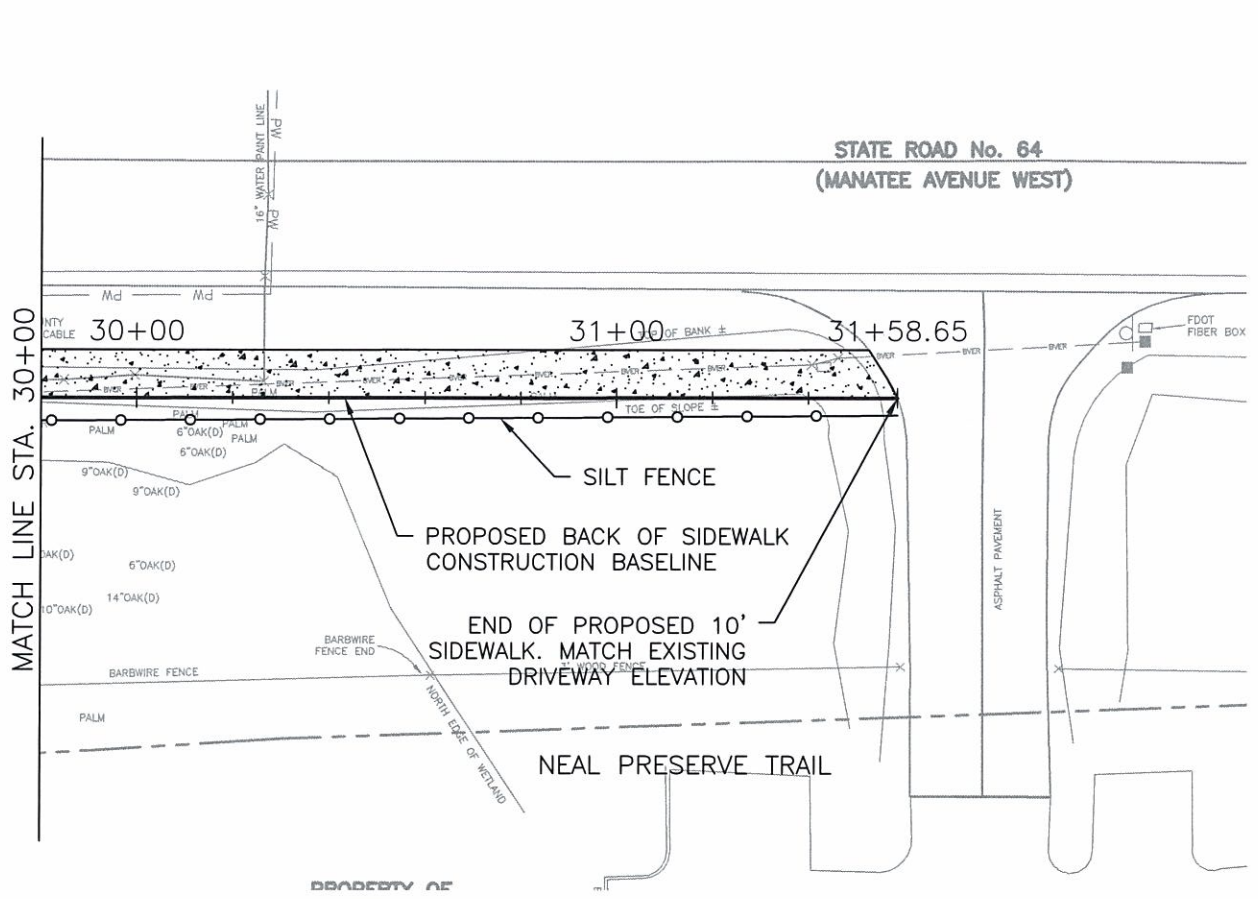


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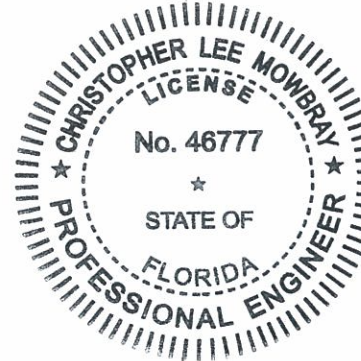
PROJECT NO.	28133-1
SUBJECT	NEAL PRESERVE
SCALE	AS SHOWN
DATE	08/10/11
DESIGNED	AM
DRAWN	AM
CHECKED	AM
APPROVED	AM

Signature & Date: *Christopher Lee* 2/11/13

**NEAL PRESERVE FROM
CAUSEWAY PATH BOARDWALK
PLAN & PROFILE AND
EROSION CONTROL PLAN
STA. 30+00 TO 31+58.65**



EROSION CONTROL DETAIL
N.T.S.



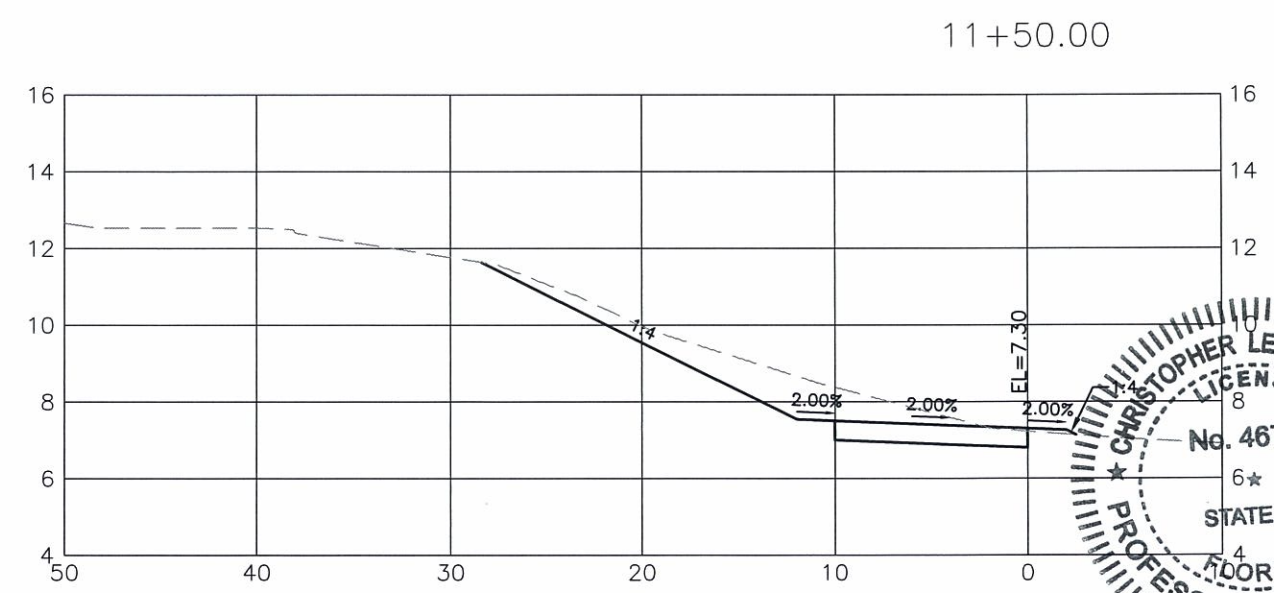
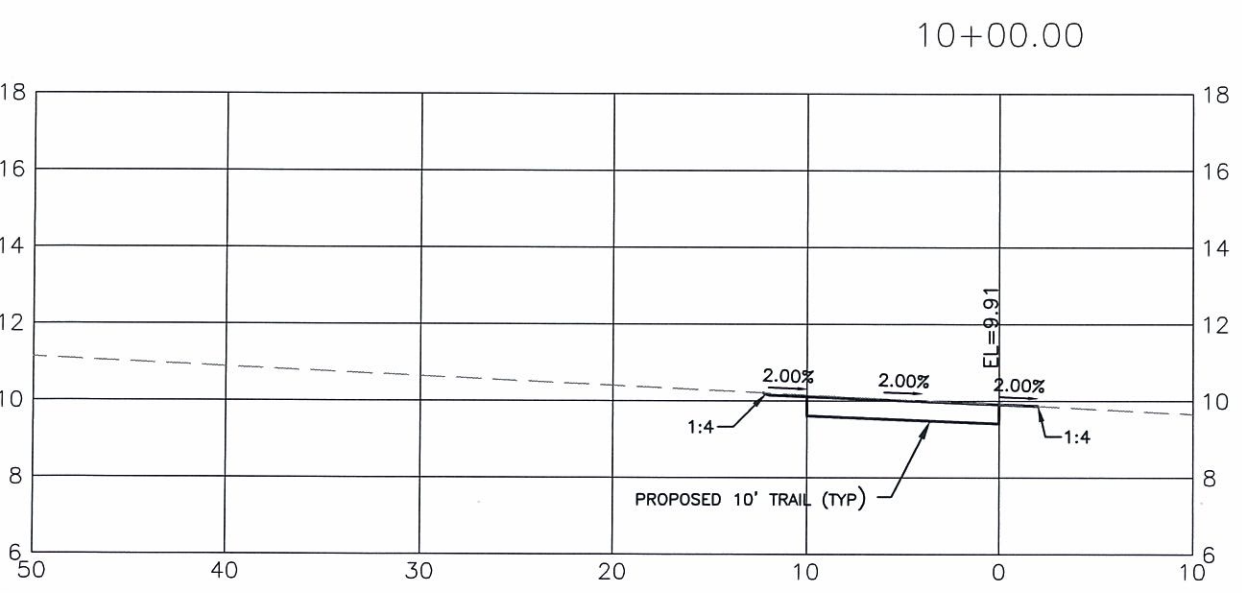
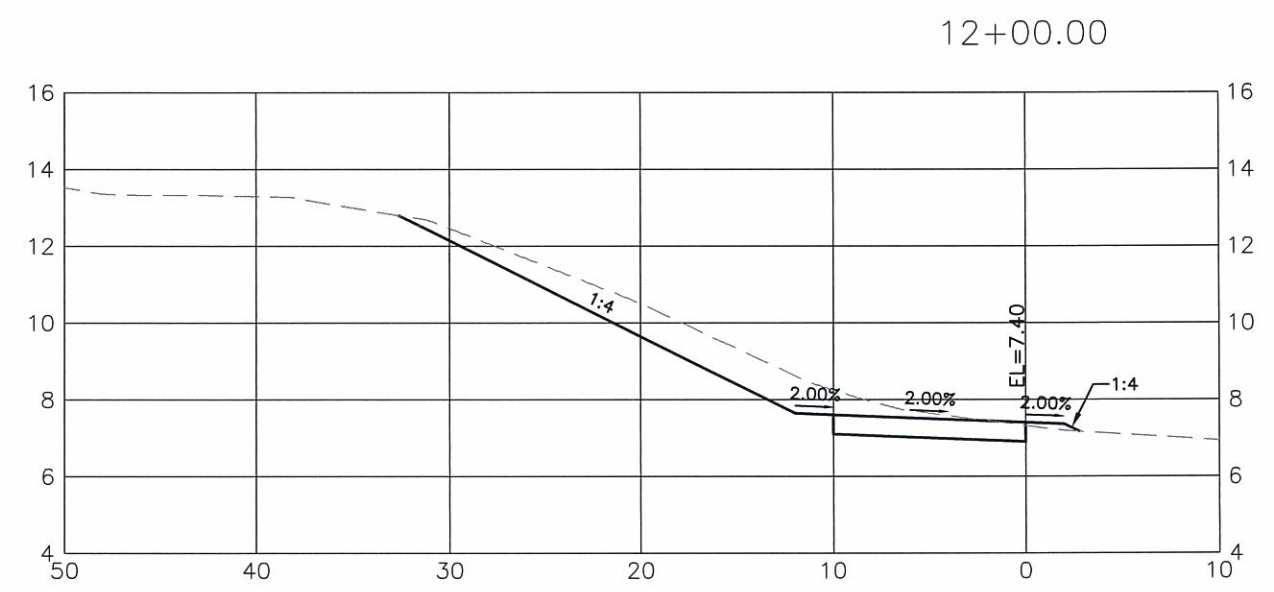
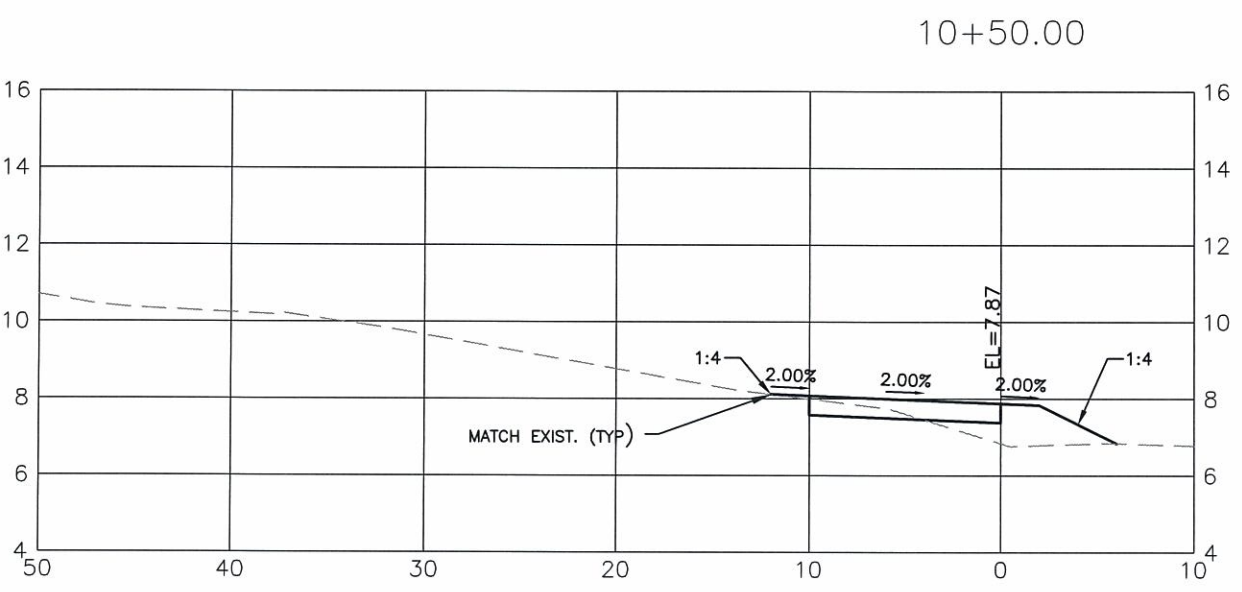
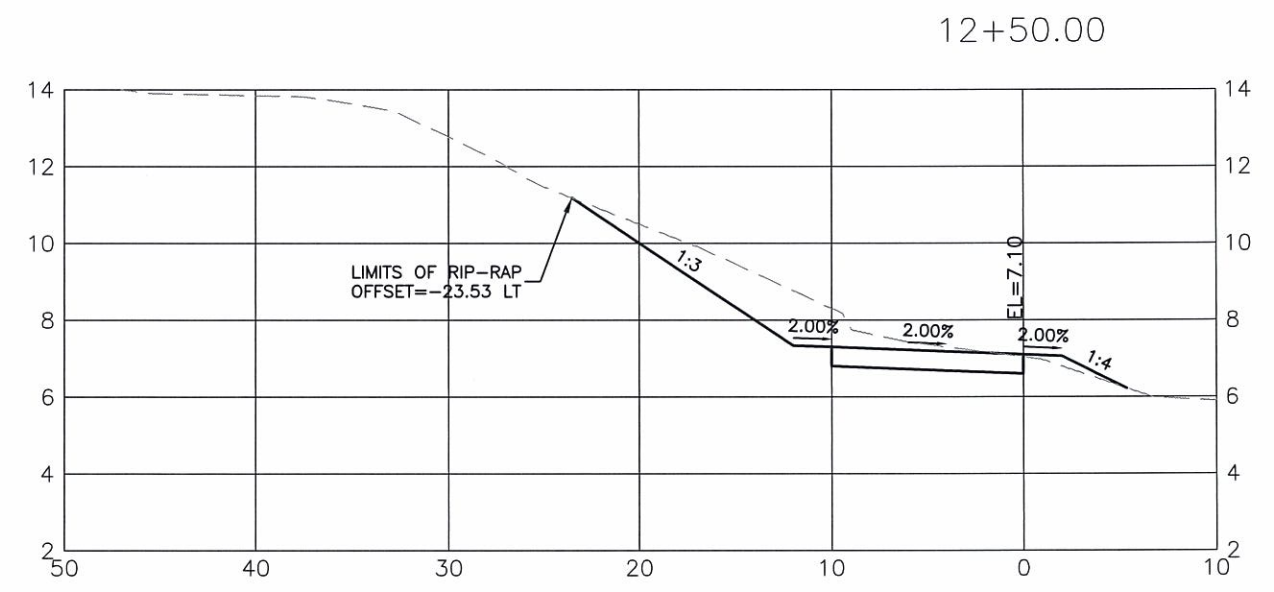
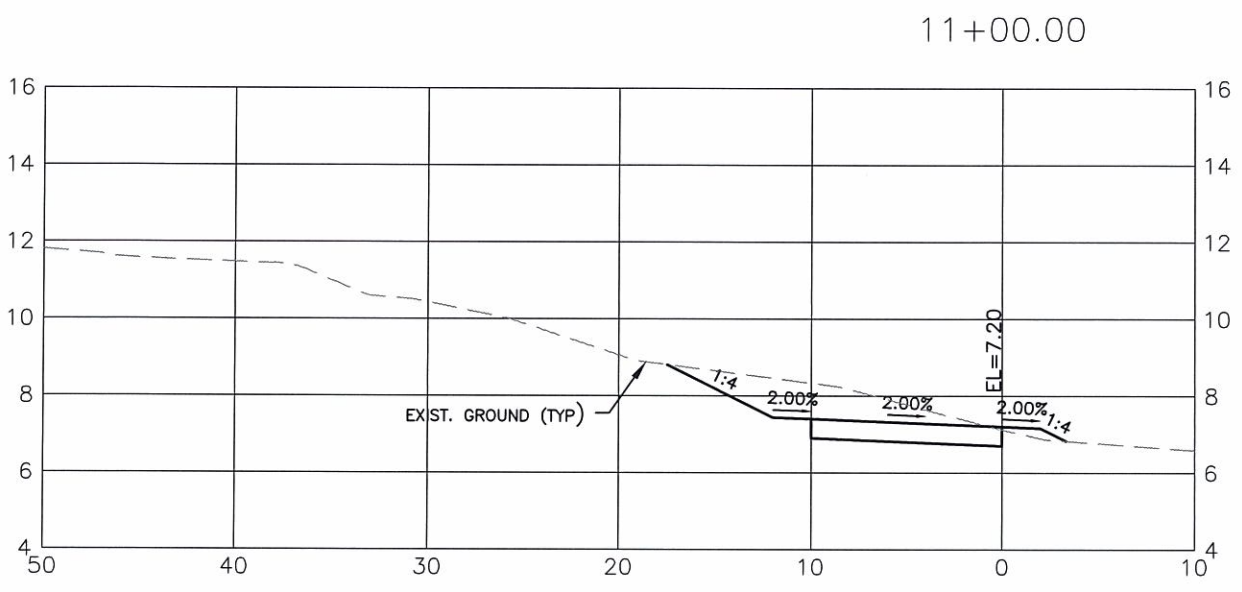
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=40'H/1"=4'V
SURVEYED	----- 00/00/00
DESIGNED	AM 08/10/11
DRAWN	AM 08/10/11
CHECKED	----- 00/00/00

CHRISTOPHER LEE MOWBRAY P.E.
FLORIDA P.E. # 46777
Ch Lee
2/11/13
Signature & Date

S:\PWD_Engineering_Shared\Highway_Engineering\FDOT Projects\Neal Preserve Trail\DWG\B-Design_Neal_Tra 11-14-12.dwg P&P - Sta. 30+00 to 31+58.65, 2/5/2013 3:12 PM Gregory Brethman, L1, ANSI full bleed B (17.00 x 11.00 inches)

**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK
CROSS SECTIONS STA. 10+00 TO 12+50**

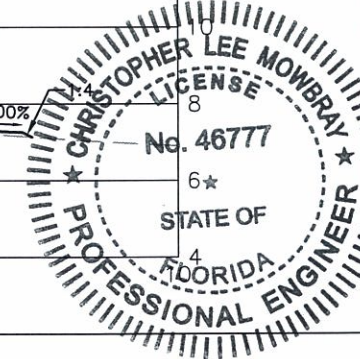


NO.	DATE	BY	REVISION DESCRIPTION

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=10'H/1"=5'V
SURVEYED	----- 00/00/00
DESIGNED	AM 08/10/11
DRAWN	GB 08/10/11
CHECKED	----- 00/00/00

C. MOWBRAY P.E.
FLORIDA P.E. # 46777

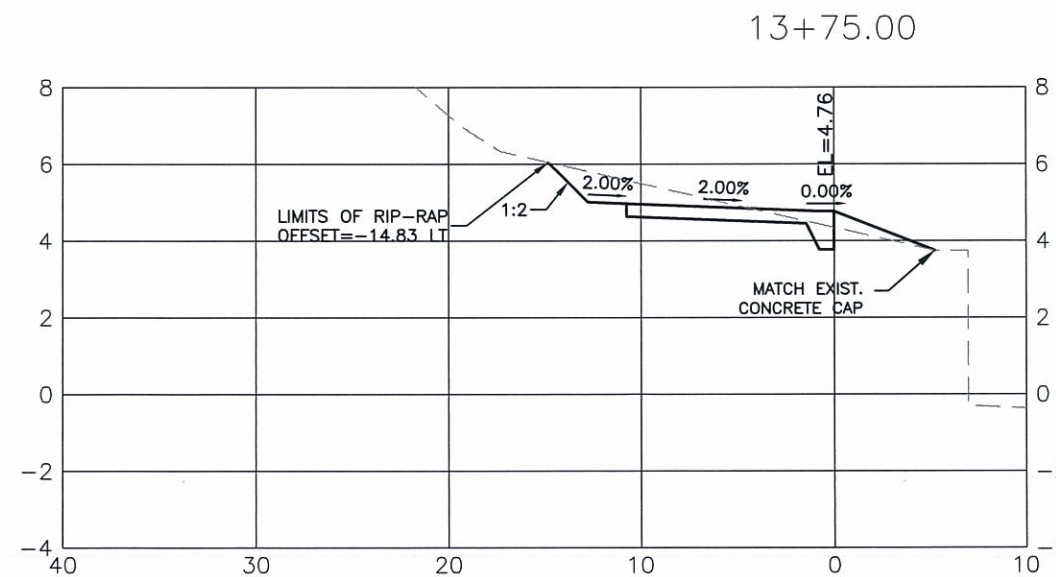
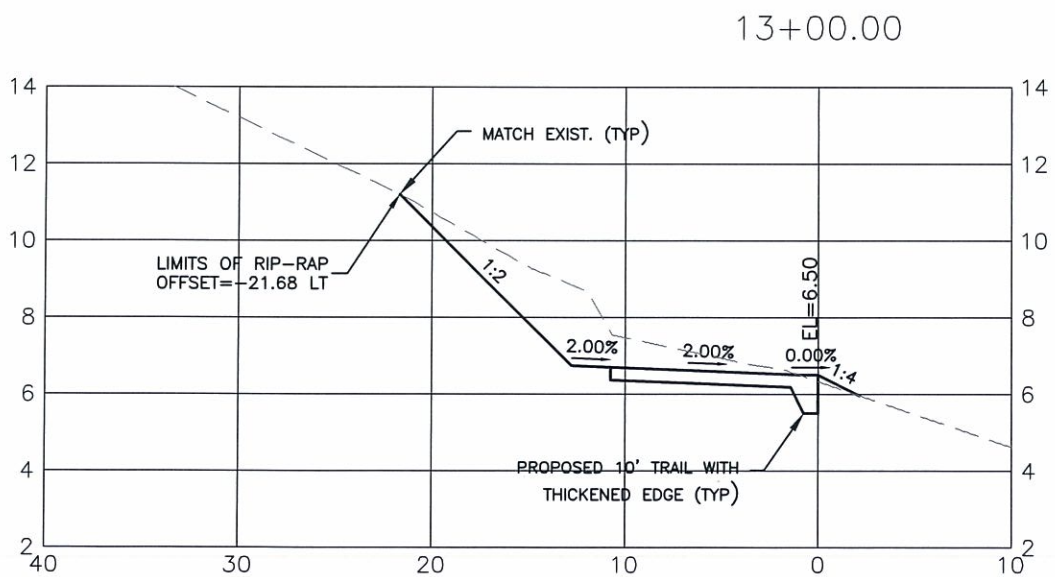
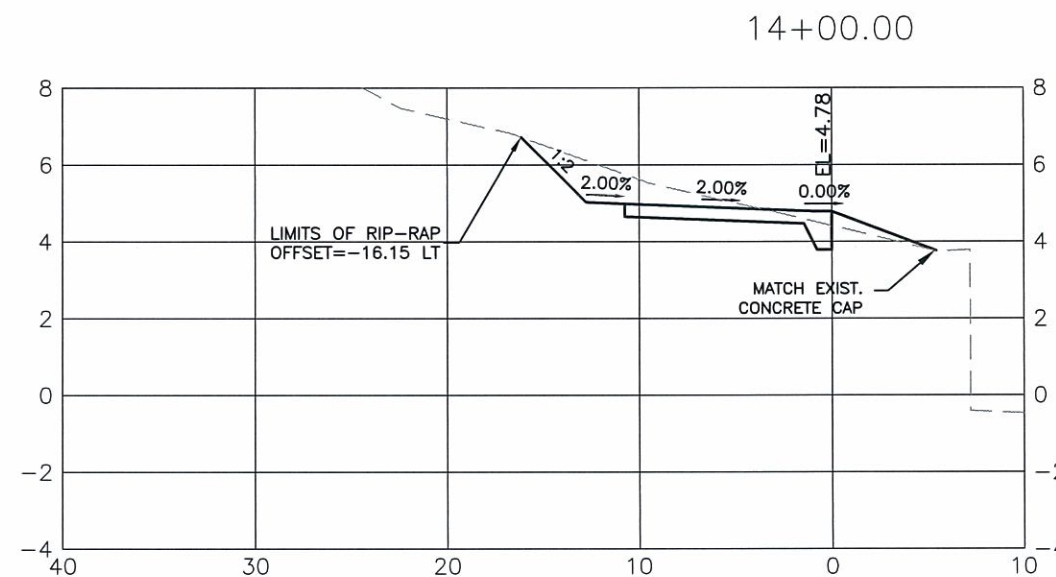
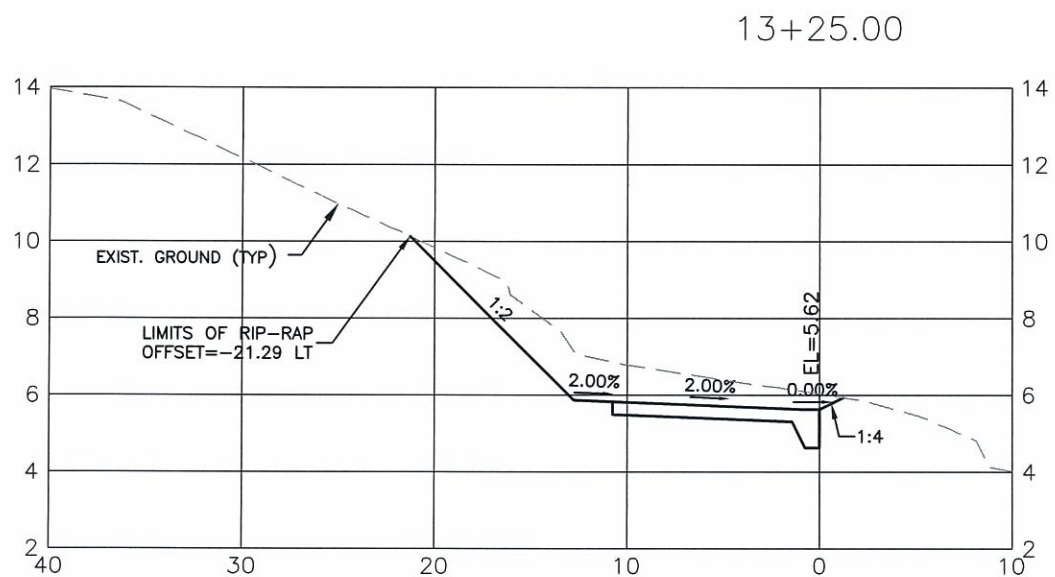
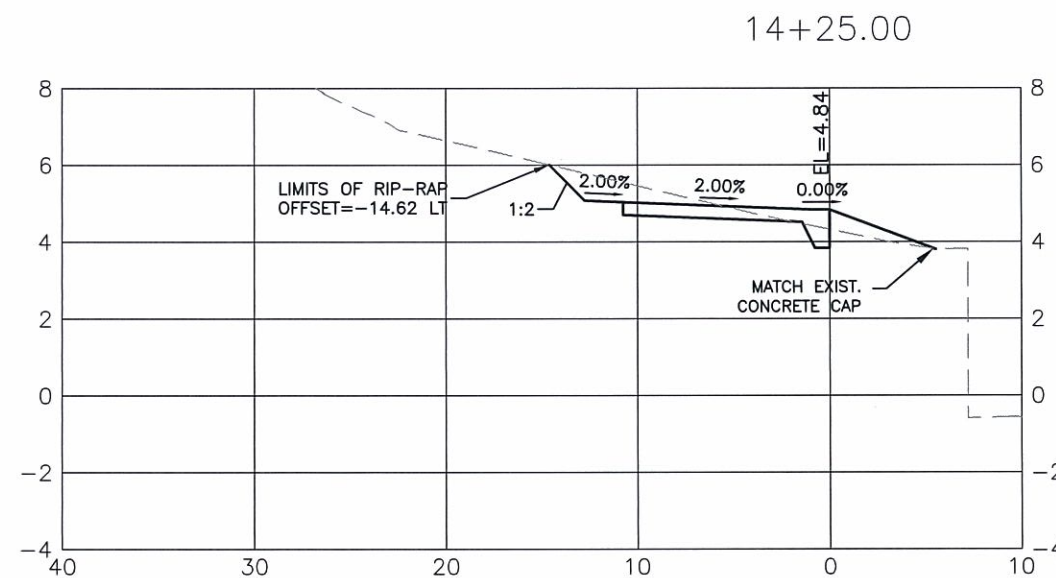
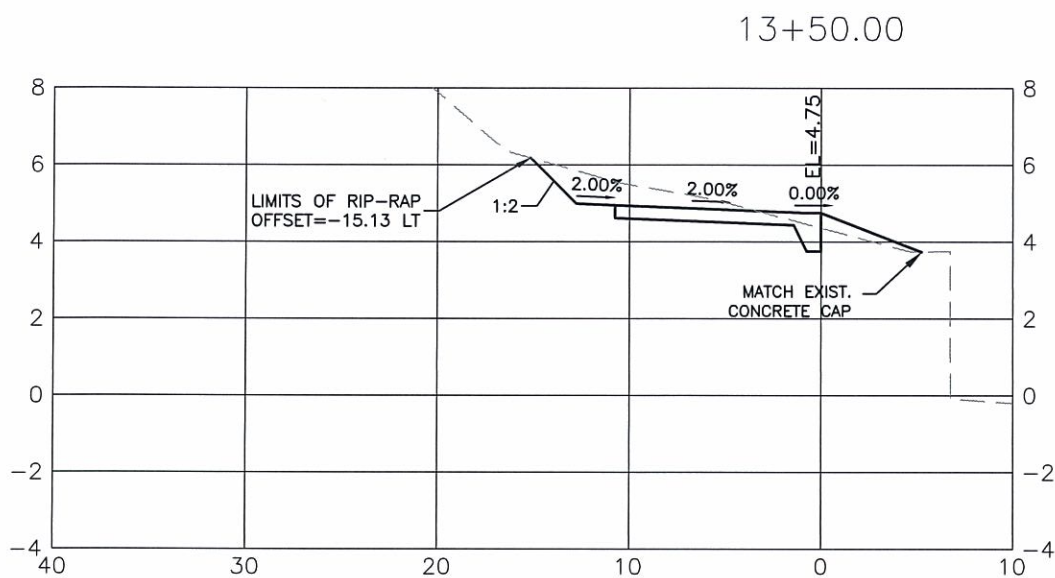
[Signature]
Signature & Date



I:\P\W\Engineering_Share\Highway_Engineering\FDOT Projects\Neal Preserve Trail\DWG_P-3_Sec_MatTr.dwg, Section Sheet - (1), 2/9/2013 3:13 PM, gipany, Benkham, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK**

CROSS SECTIONS STA. 13+00 TO 14+25



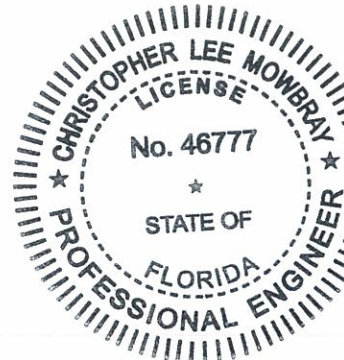
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=10'H/1"=5'V
SURVEYED	00/00/00
DESIGNED	AM 08/10/11
DRAWN	GB 08/10/11
CHECKED	00/00/00

C. MOWBRAY P.E.
FLORIDA P.E. # 46777

Signature
2/11/13

Signature & Date

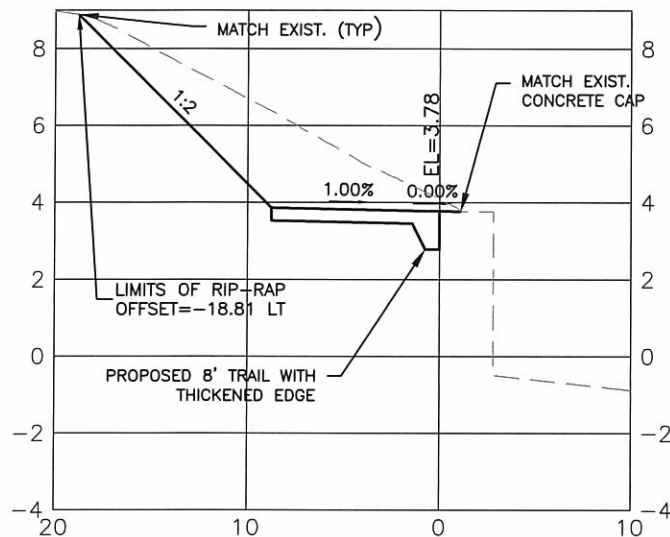


I:\PBD_Engineering\Shore Highway_Engineering\VD01 Projects\Neal Preserve Trail\DWG\X_Sect_NealTrail.dwg, Section Sheet - (2), 2/9/2013 3:13 PM Gregory Brethman, L1, ANSI full bleed B (17.00 x 11.00 inches)

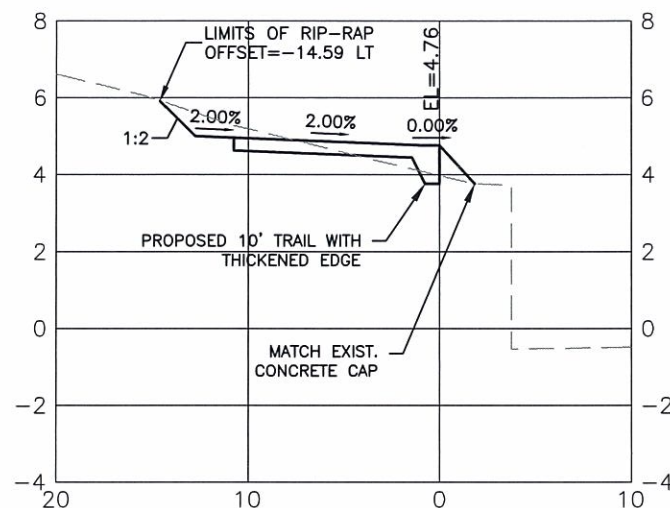


**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK
CROSS SECTIONS STA. 14+50 TO 16+25**

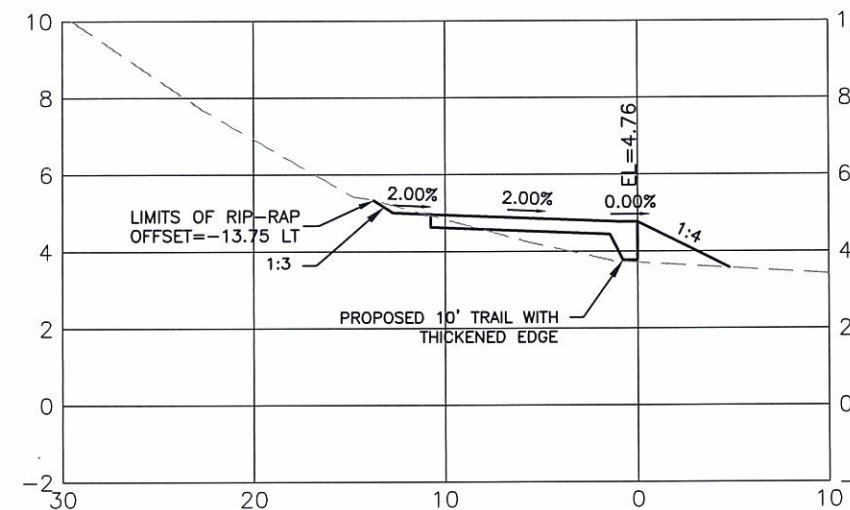
15+00.00



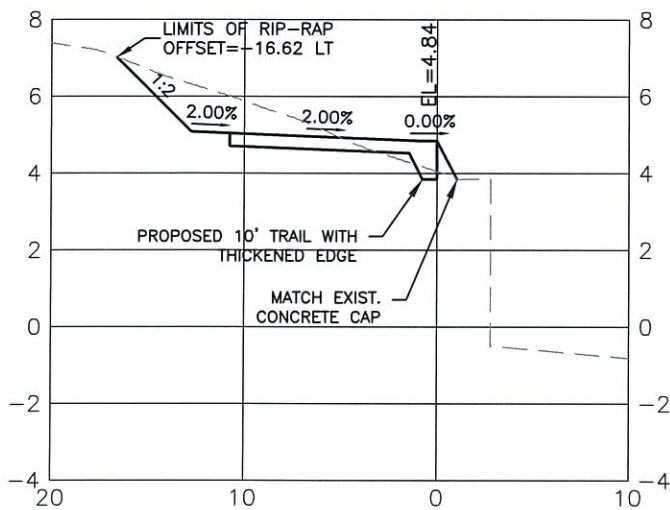
15+75.00



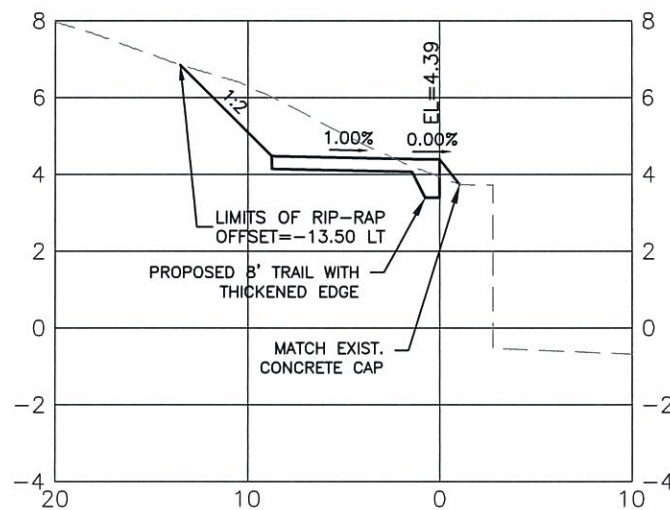
16+50.00



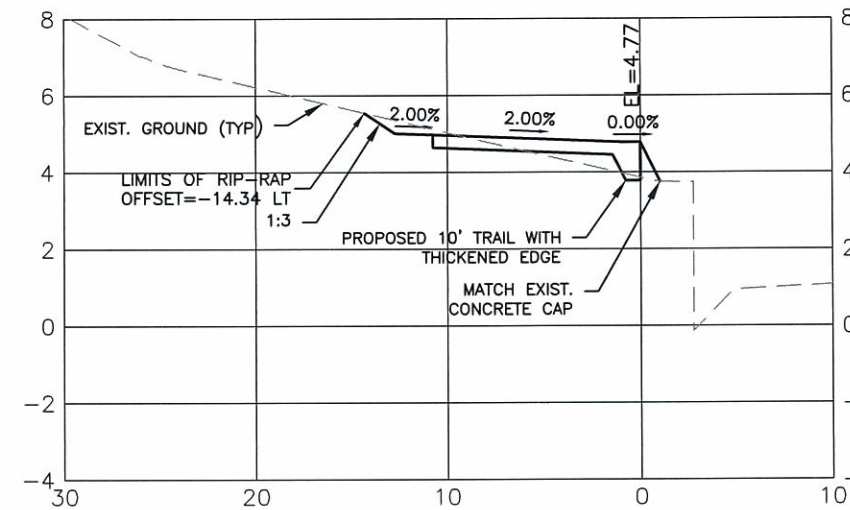
14+75.00



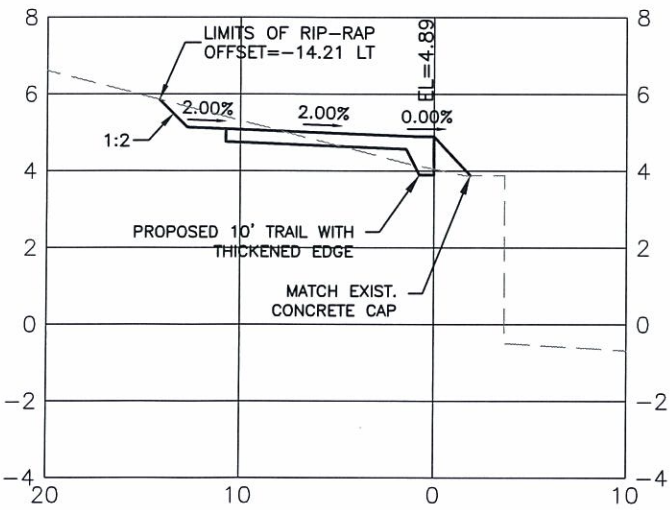
15+50.00



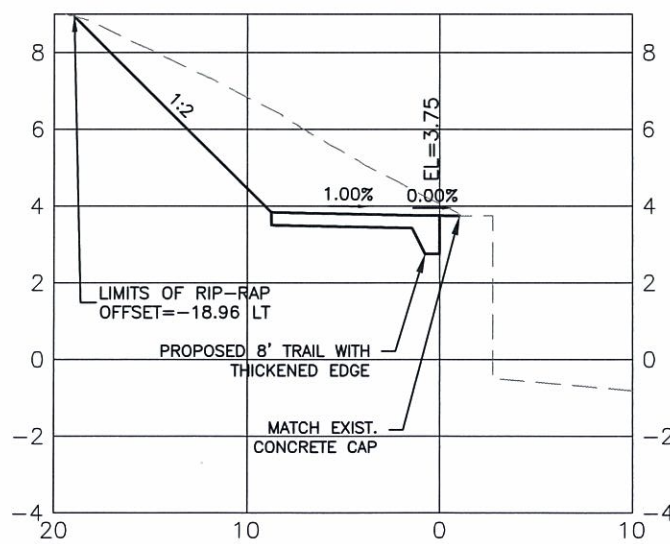
16+25.00



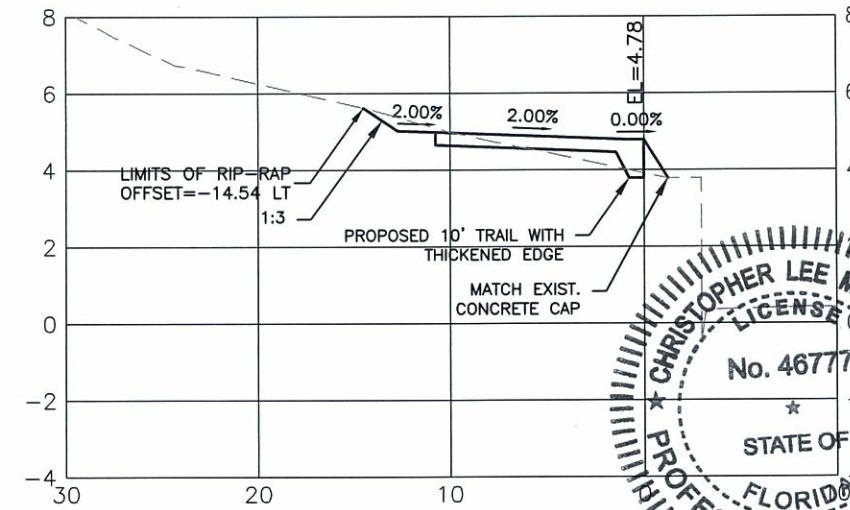
14+50.00



15+25.00



16+00.00



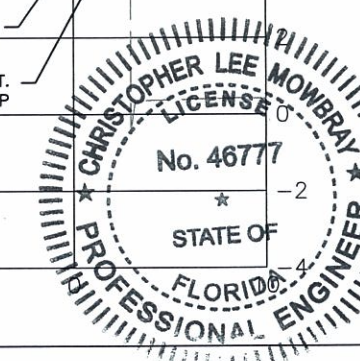
NO.	REVISION DESCRIPTION	DATE	BY

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=10'H/1"=5'V

	BY	DATE
SURVEYED	----	00/00/00
DESIGNED	AM	08/10/11
DRAWN	GB	08/10/11
CHECKED	----	00/00/00

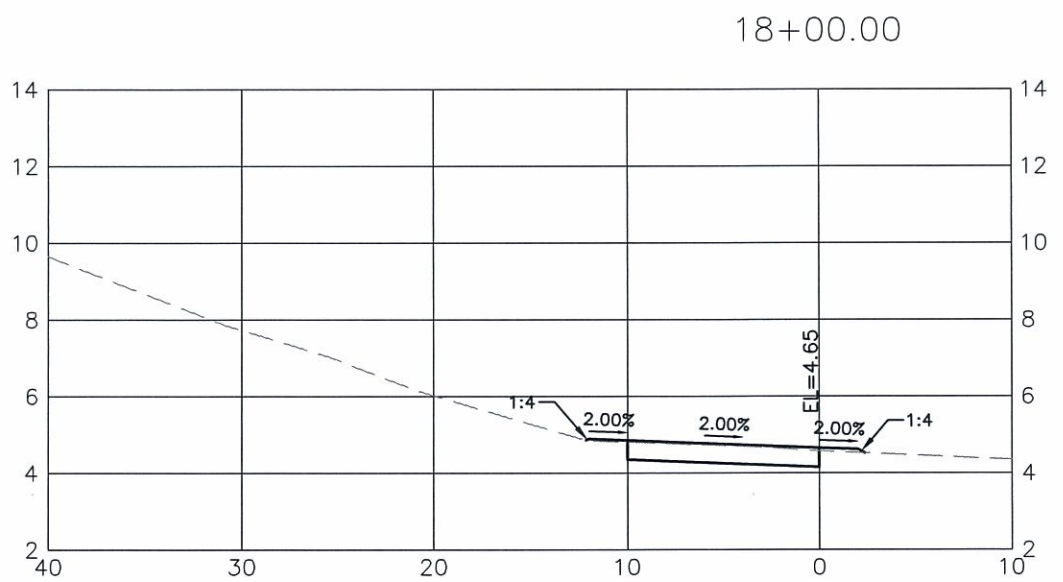
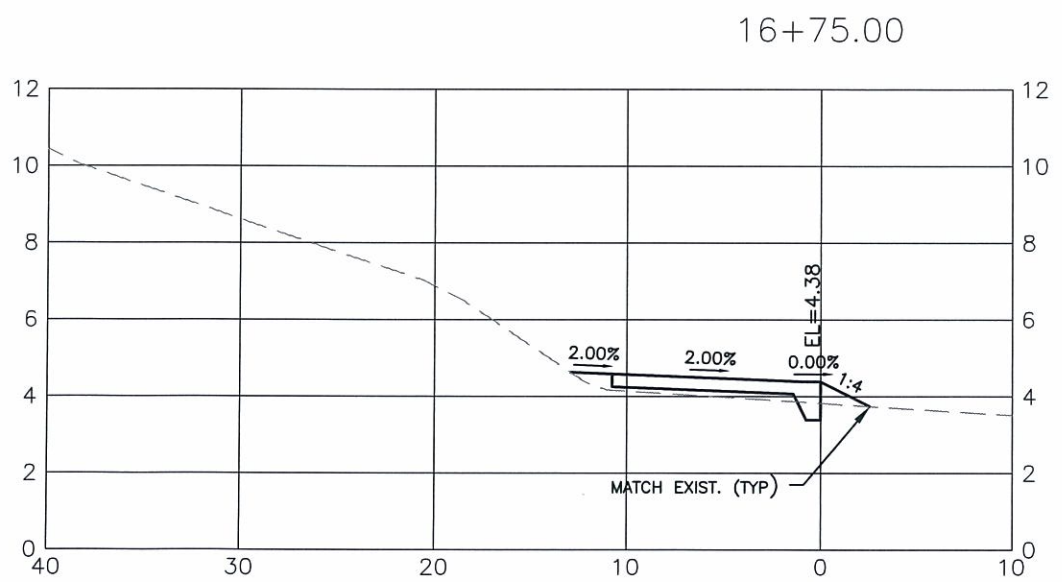
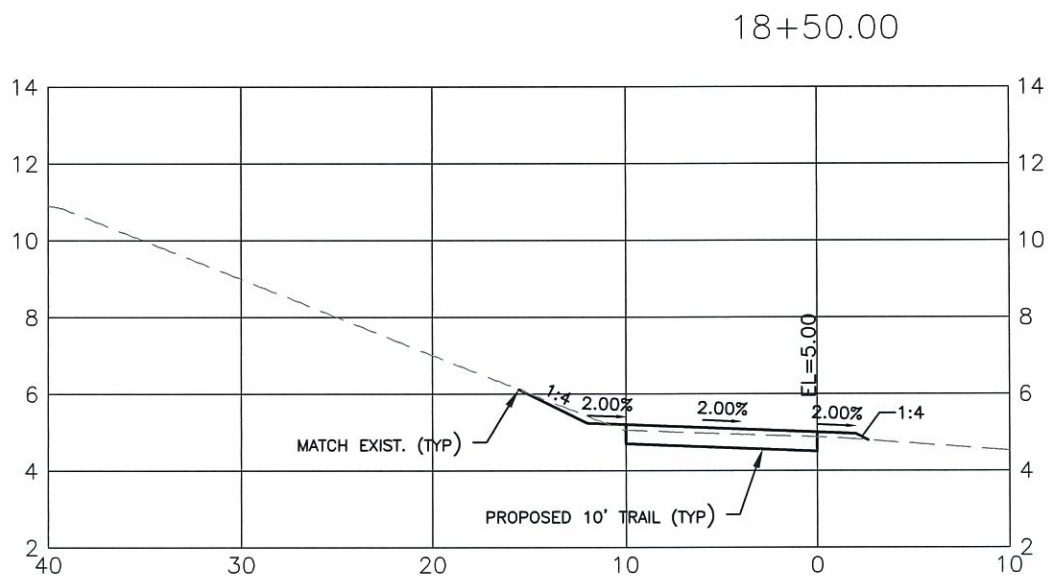
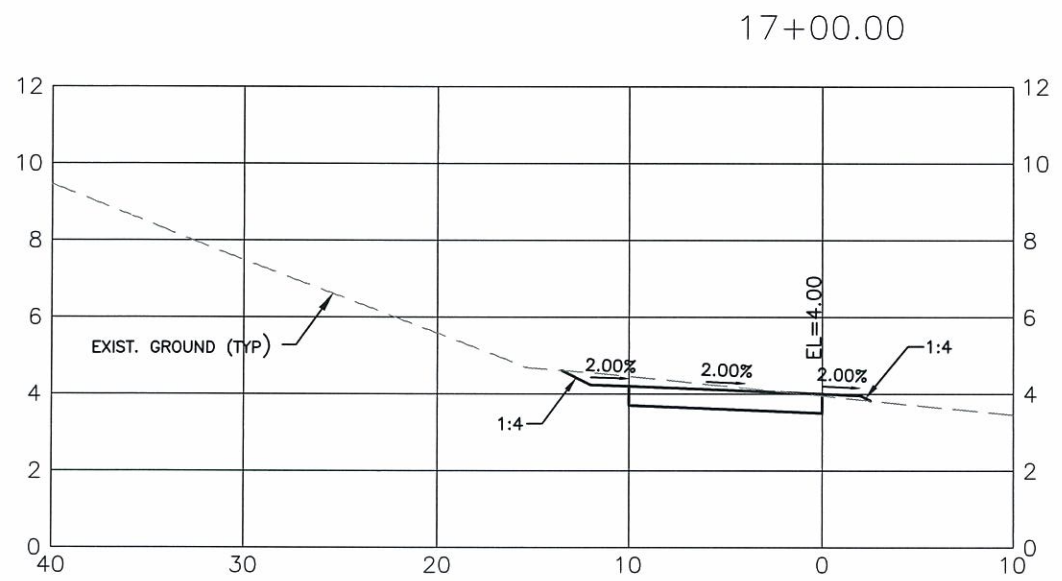
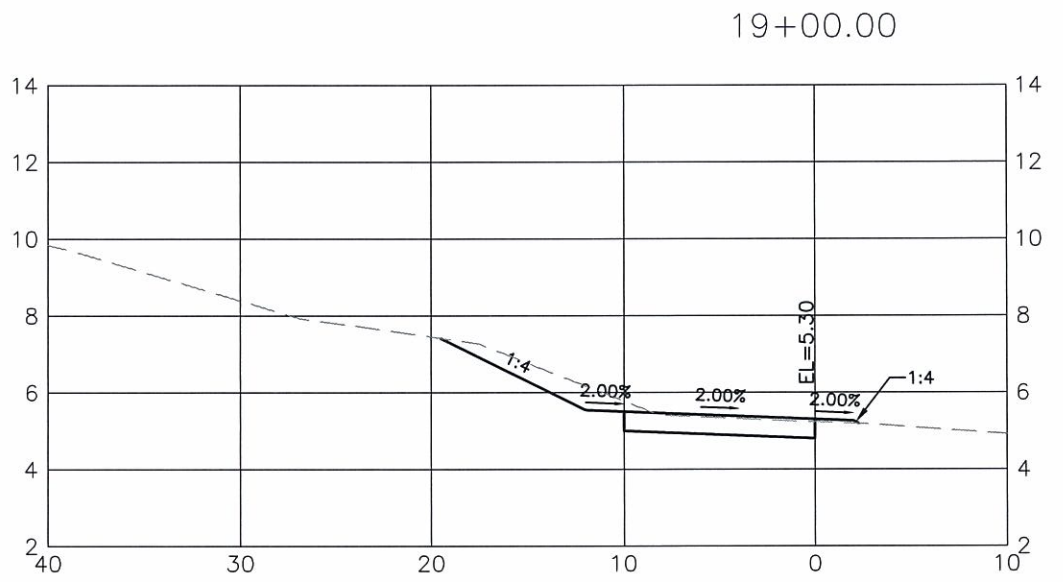
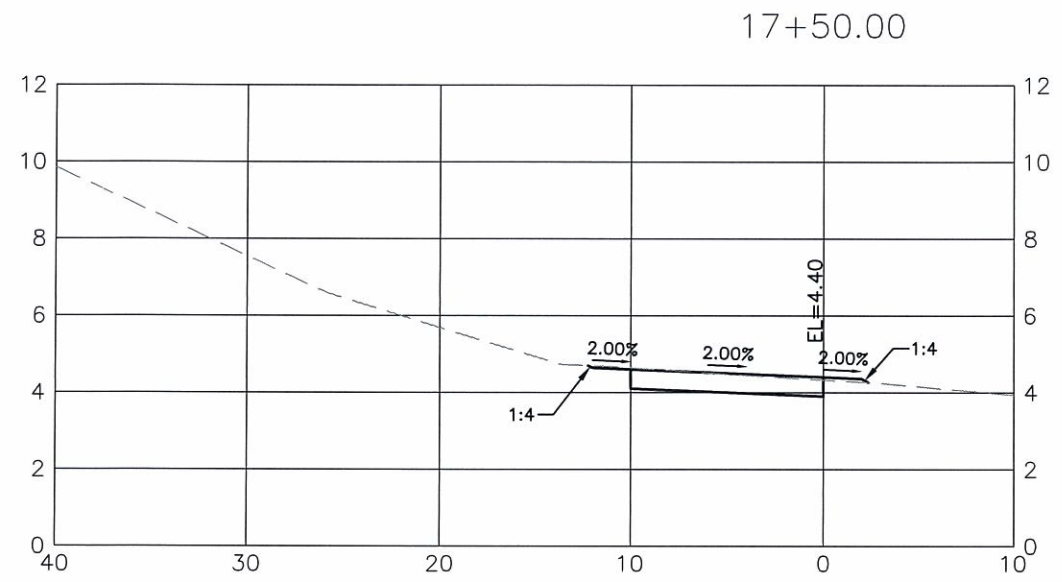
C. MOWBRAY P.E.
FLORIDA P.E. # 46777

Signature & Date: *C. Mowbray* 2/11/13



S:\PWD_Engineering\Share\Highway_Engineering\VDOT\Projects\Neal_Preserve_Trial\VDWP\X_Sect_NealTri.dwg Section Sheet - (3) - 2/9/2013 3:13 PM Gregory Brinkman, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK
CROSS SECTIONS STA. 16+50 TO 18+50**



NO.	REVISION DESCRIPTION	BY	DATE

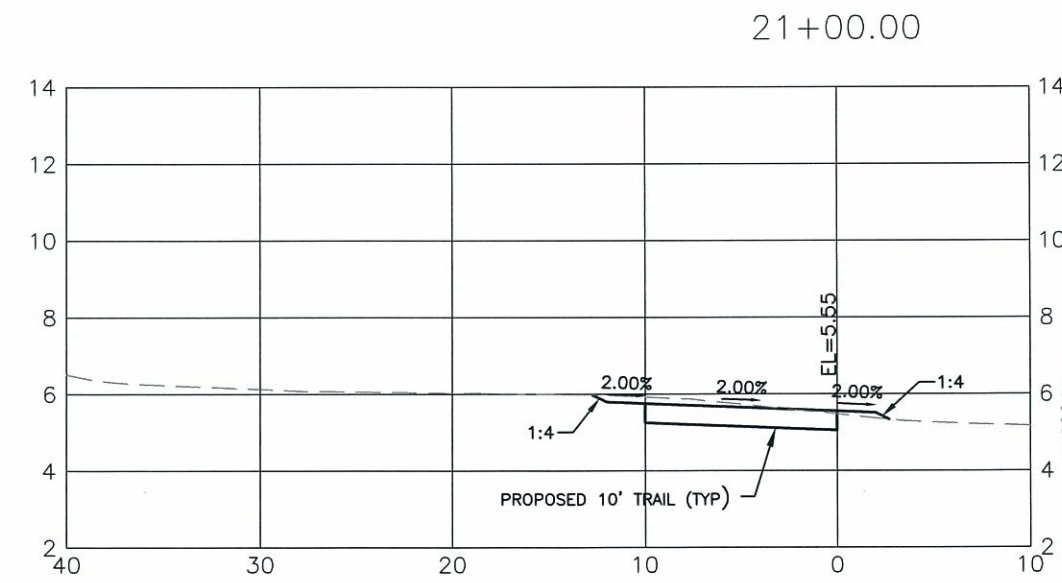
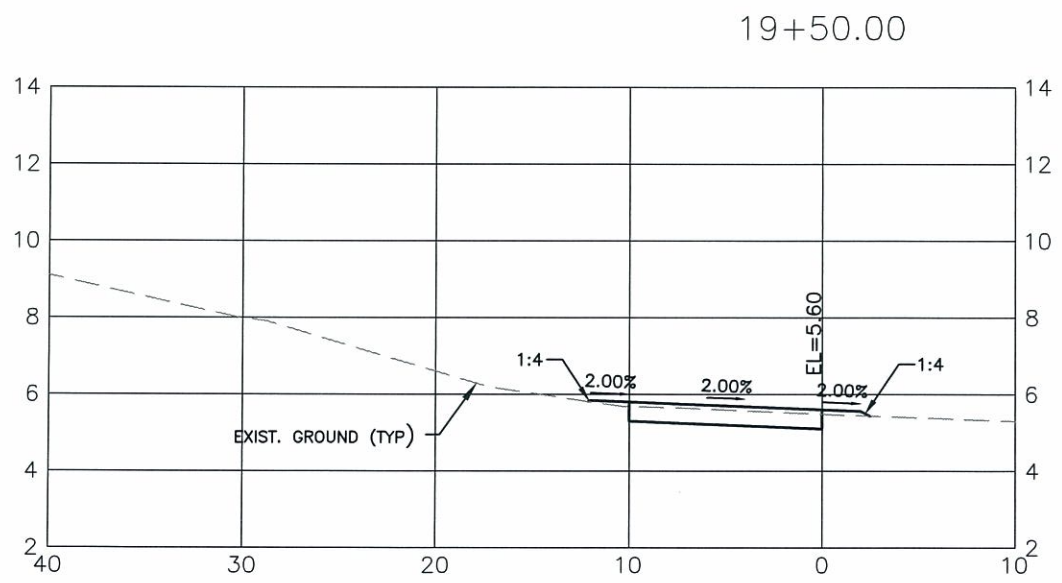
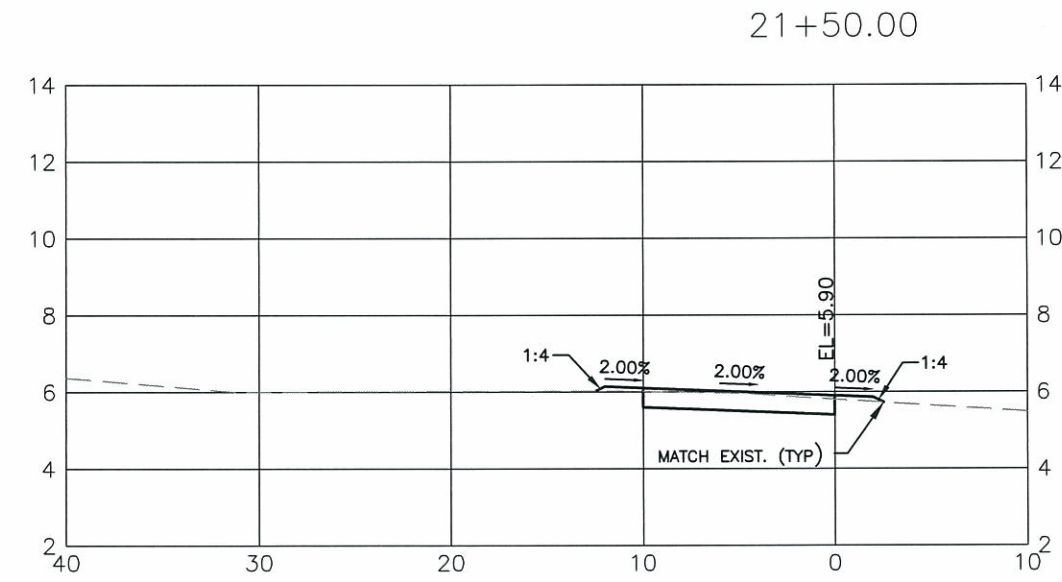
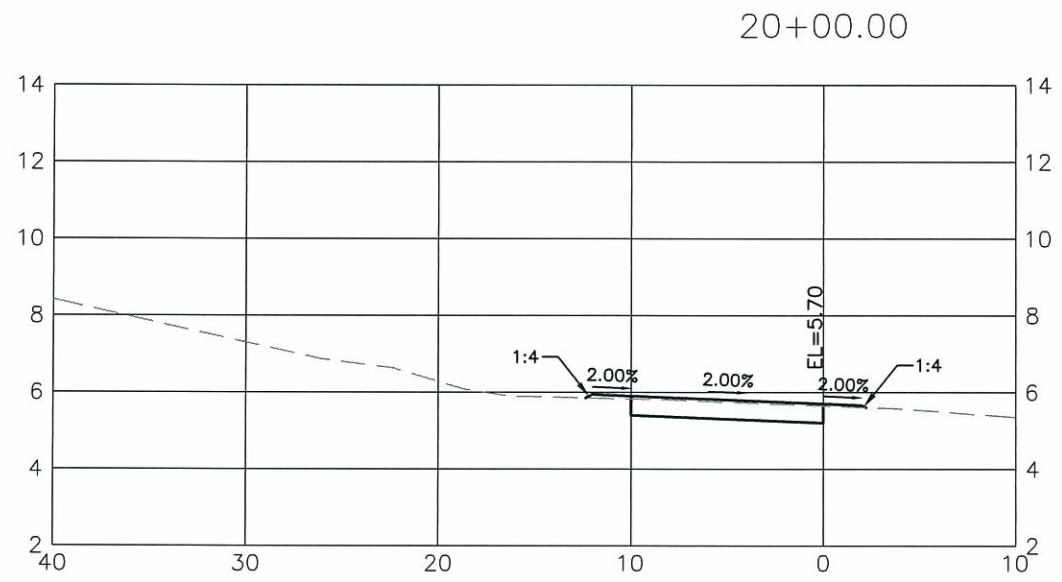
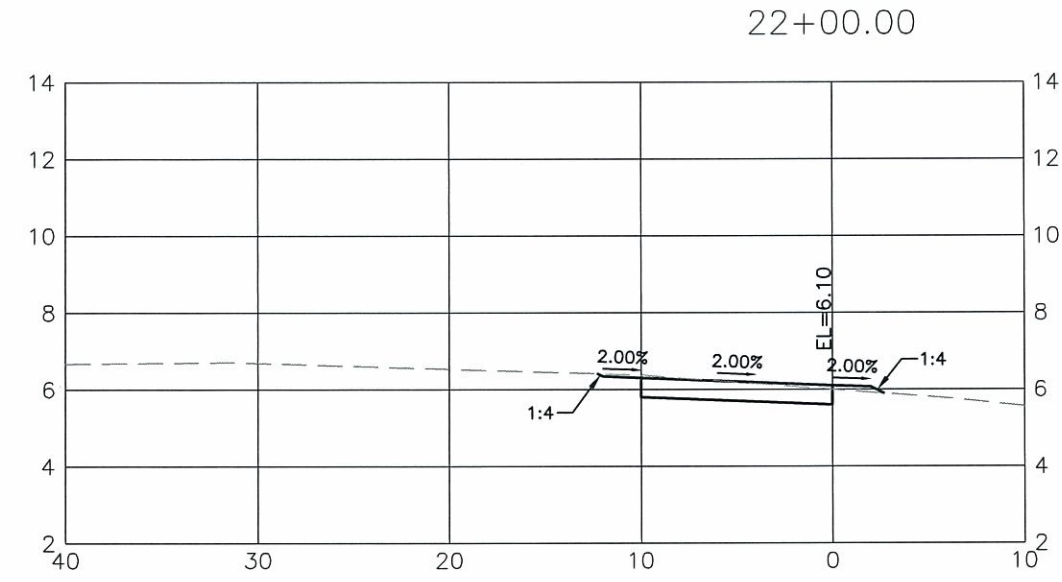
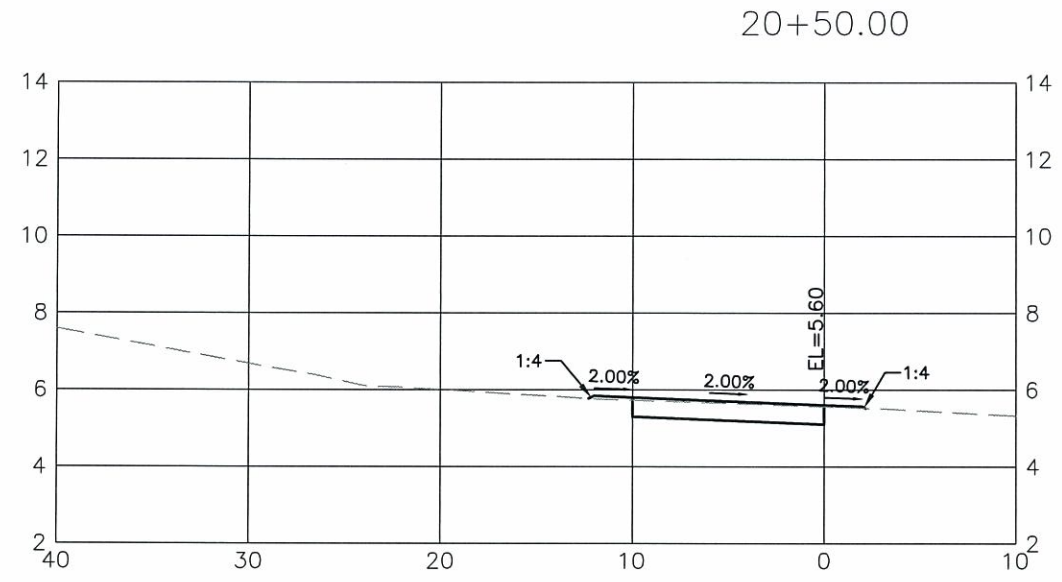
PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=10'H/1"=5'V
SURVEYED	00/00/00
DESIGNED	AM 08/10/11
DRAWN	GB 08/10/11
CHECKED	00/00/00
C. MOWBRAY P.E.	
FLORIDA P.E. # 46777	
<i>C. Mowbray</i> 2/11/13	
Signature & Date	



S:\PWD_Engineering_Share\Highway_Engineering\DOT_Projects\Neal_Preserve_Trail\DWG\VP-4_Sect_NealTrl.dwg, Section Sheet - (4), 2/6/2013 3:13 PM, Grigory Brakhman, 1:1, ANST full bleed B (17.00 x 11.00 inches)



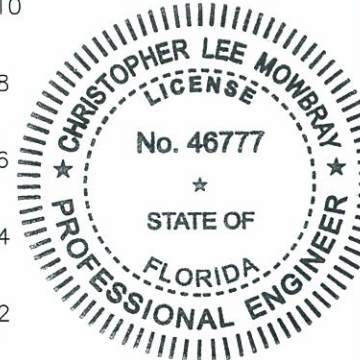
**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK**
CROSS SECTIONS STA. 09+00 TO 21+50



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=10'H/1"=5'V
SURVEYED	00/00/00
DESIGNED	AM 08/10/11
DRAWN	GB 08/10/11
CHECKED	00/00/00

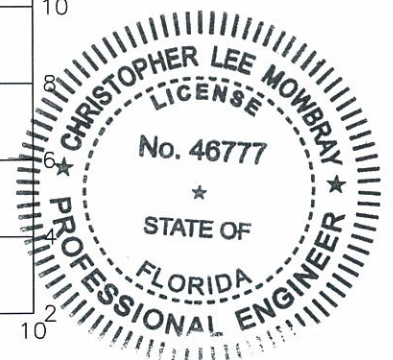
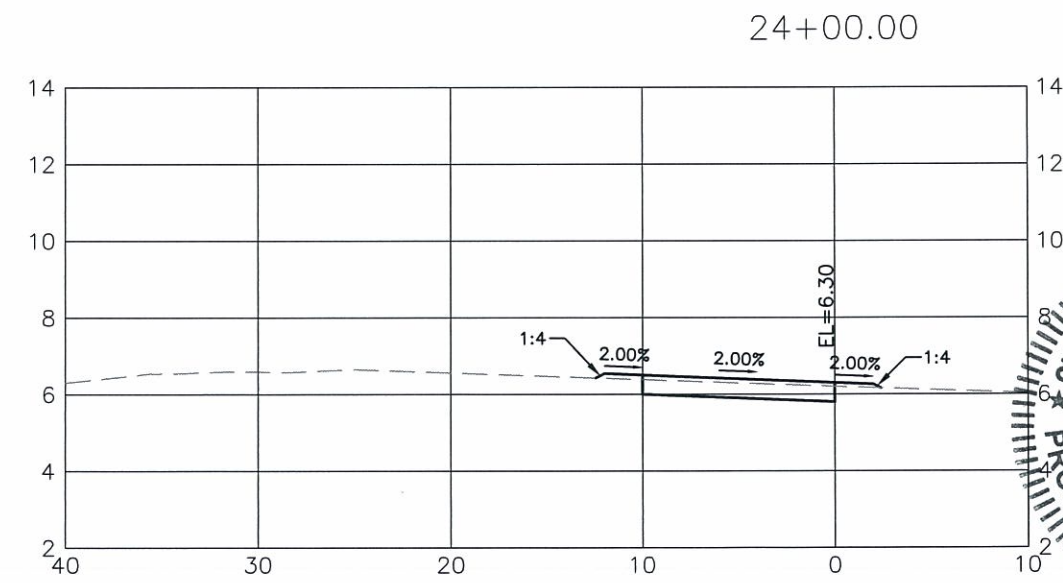
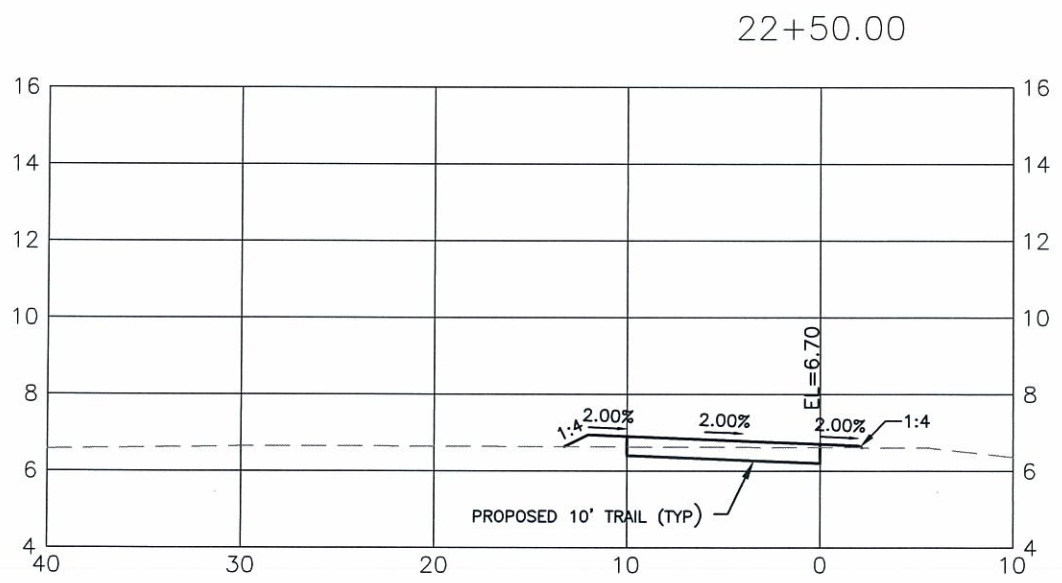
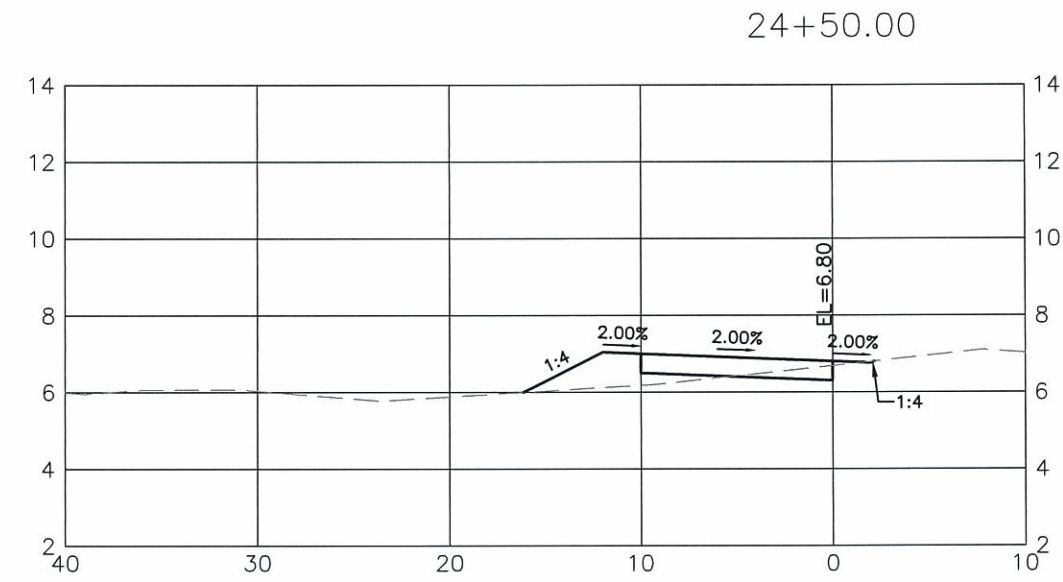
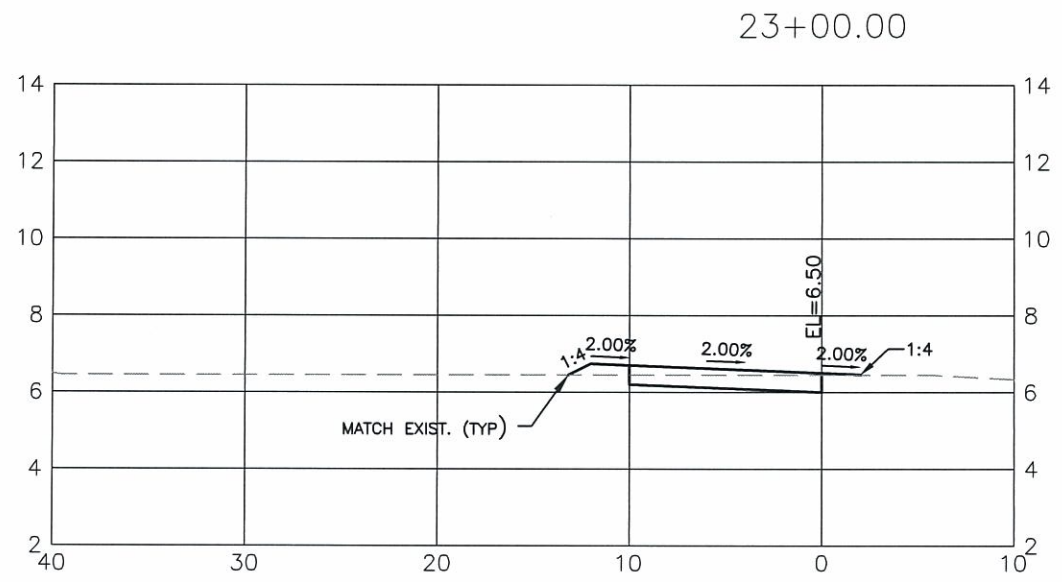
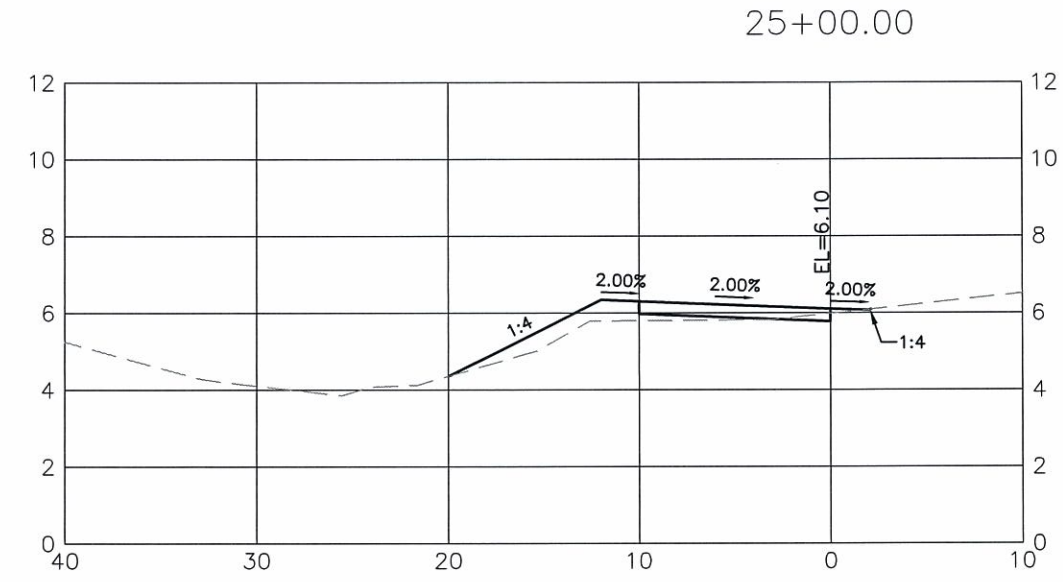
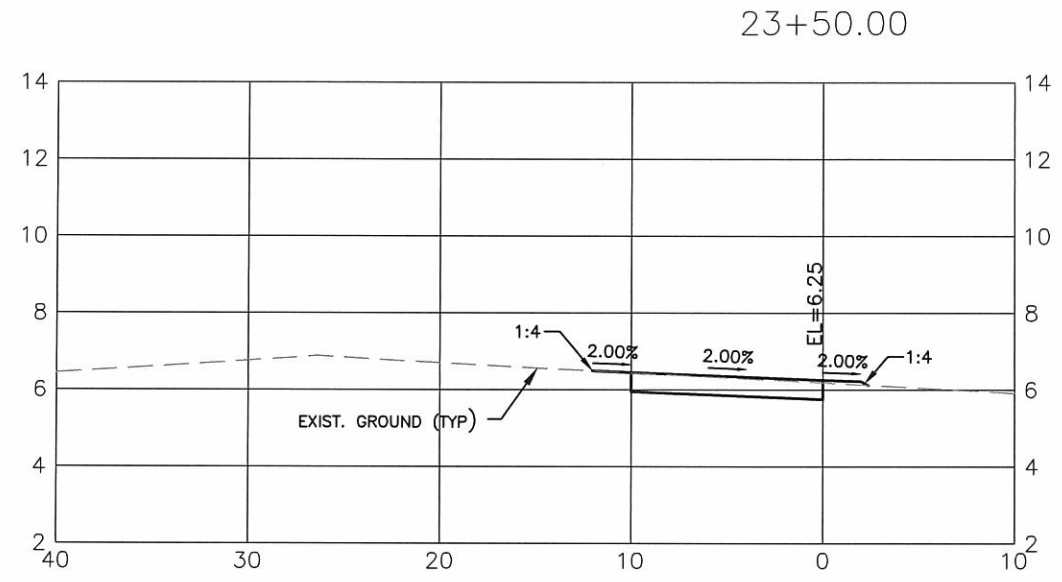
C. MOWBRAY P.E.
FLORIDA P.E. # 46777
Ch...
2/11/13
Signature & Date



I:\P\02_Engineering_Shore\Highway_Engineering\DOT_Projects\Neal_Preserve\Task\DWG\Plan\Sec\Neal\NealTrl.dwg, Section Sheet - (5), 2/8/2013 3:13 PM, Gregory, Berichman, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK**
CROSS SECTIONS STA. 22+00 TO 24+50



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=10'H/1"=5'V
SURVEYED	00/00/00
DESIGNED	AM 08/10/11
DRAWN	GB 08/10/11
CHECKED	00/00/00

C. MOWBRAY P.E.
FLORIDA P.E. # 46777
Christopher Lee Mowbray
2/11/13
Signature & Date

I:\VWD_Engineering\Shore\Highway_Engineering\DOT_Projects\Neal_Preserve\Trail\DWG\Plan\X_Sect_NealTrail.dwg Section Sheet - (6) 2/8/2013 3:13 PM Gregory Berthman 1:1 ANSI full bleed B (17.00 x 11.00 inches)


**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK**

CROSS SECTIONS STA. 25+00 TO 27+50

NO.	REVISION DESCRIPTION	BY	DATE

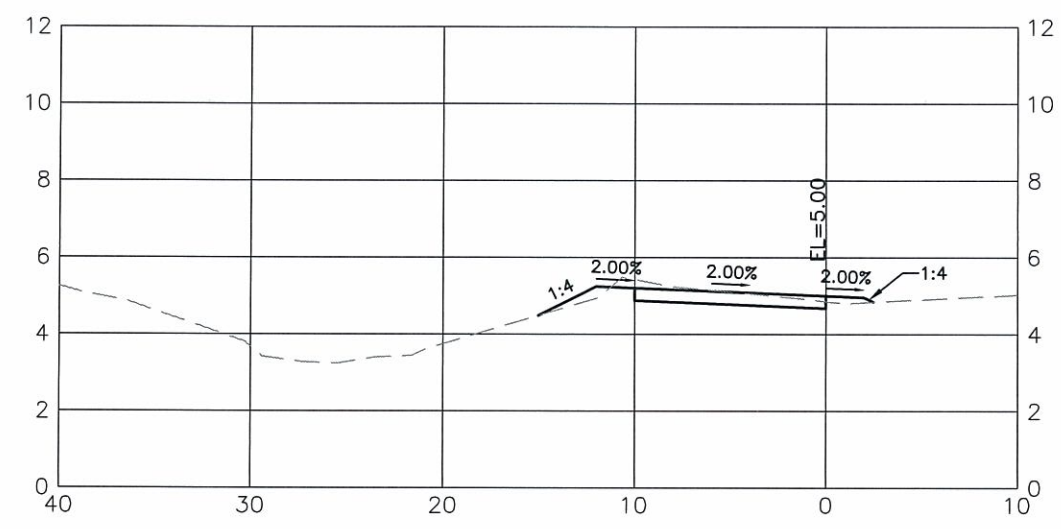
PROJECT #	FM #428133-1	
SURVEY #	000	
SEC./TWN./RGE	28/34S/18E	
SCALE	1"=10'H/1"=5'V	
SURVEYED	----	00/00/00
DESIGNED	AM	08/10/11
DRAWN	GB	08/10/11
CHECKED	----	00/00/00

C. MOWBRAY P.E.
FLORIDA P.E. # 46777

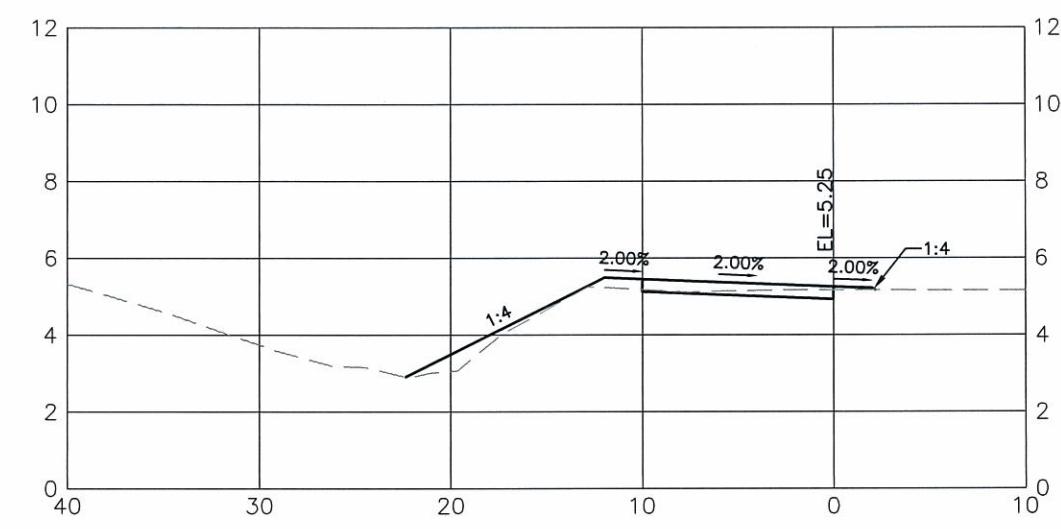


Signature & Date

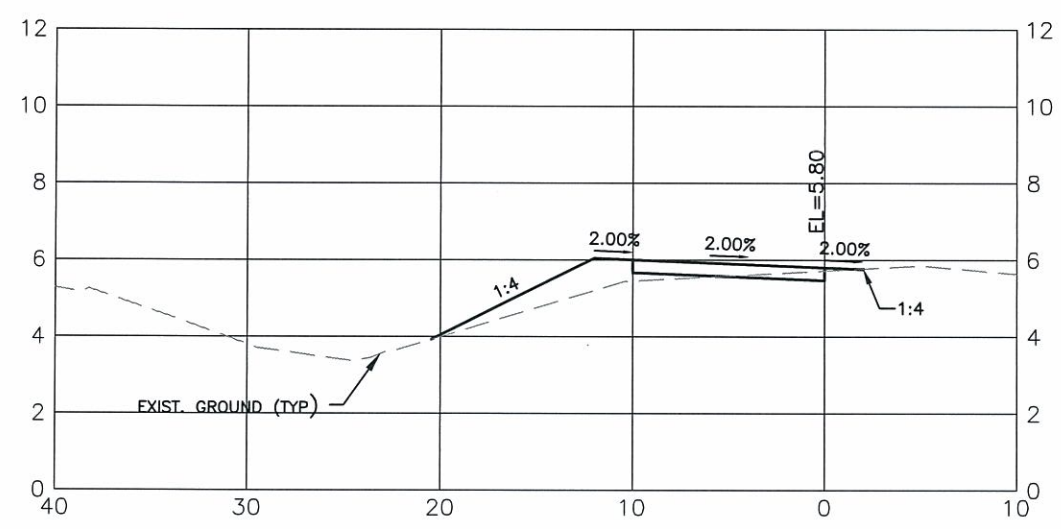
26+50.00



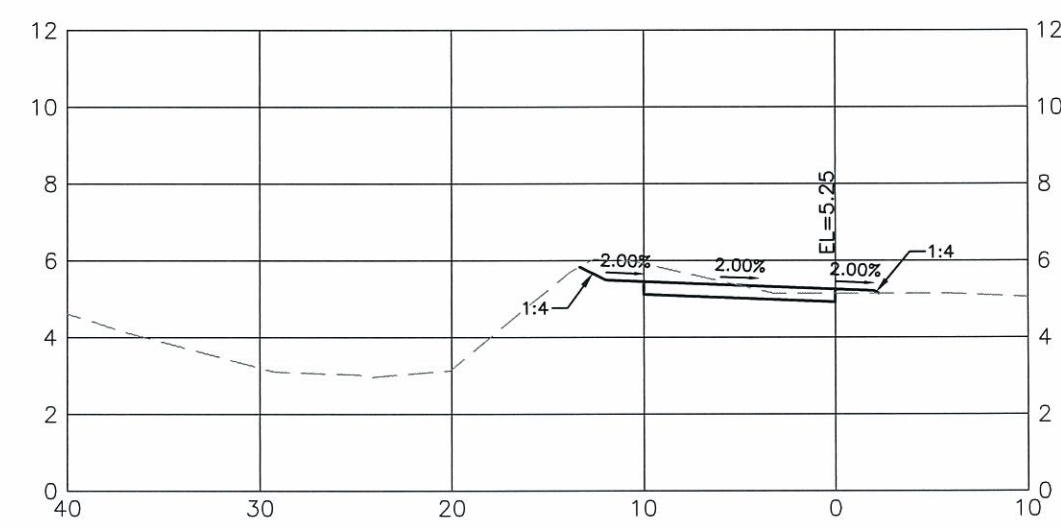
28+00.00



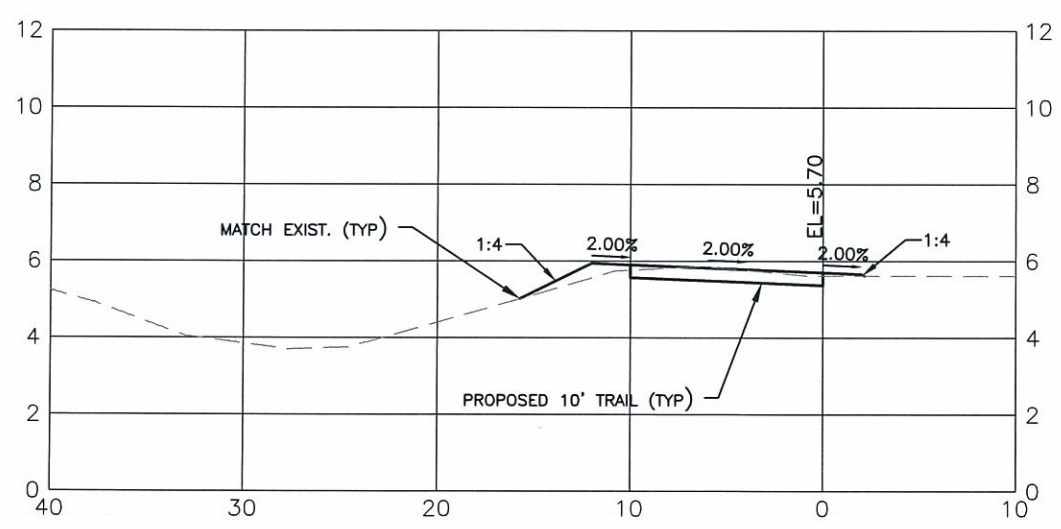
26+00.00



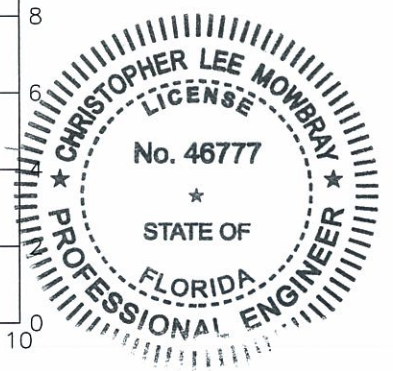
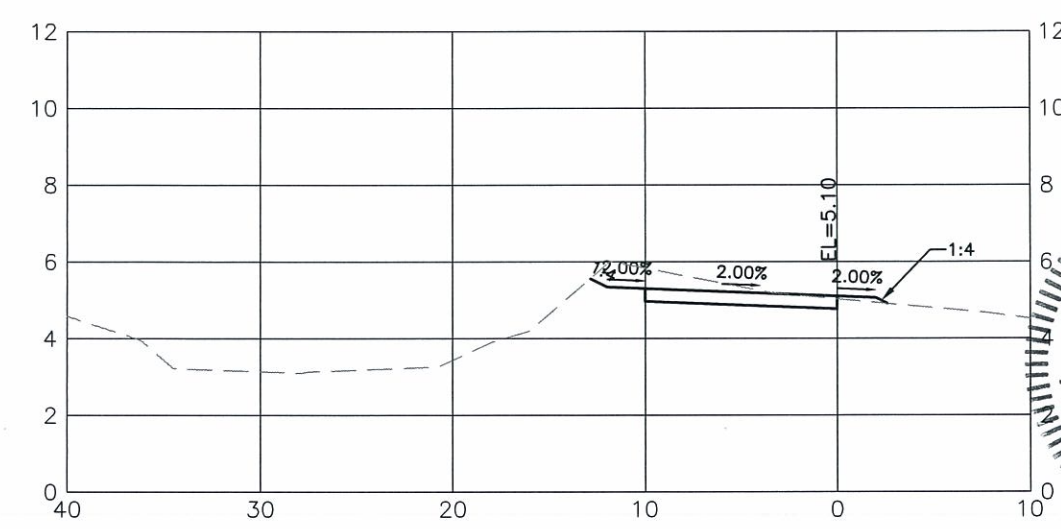
27+50.00



25+50.00



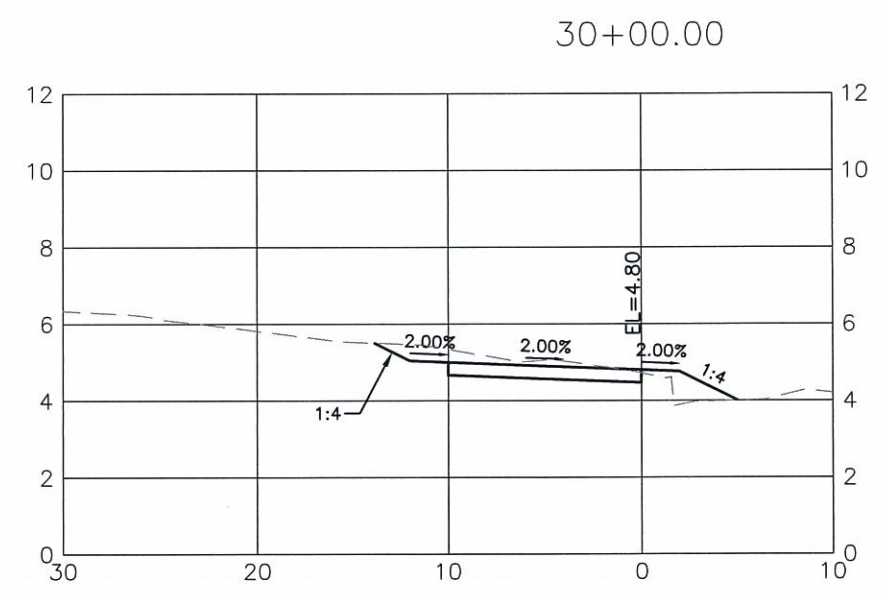
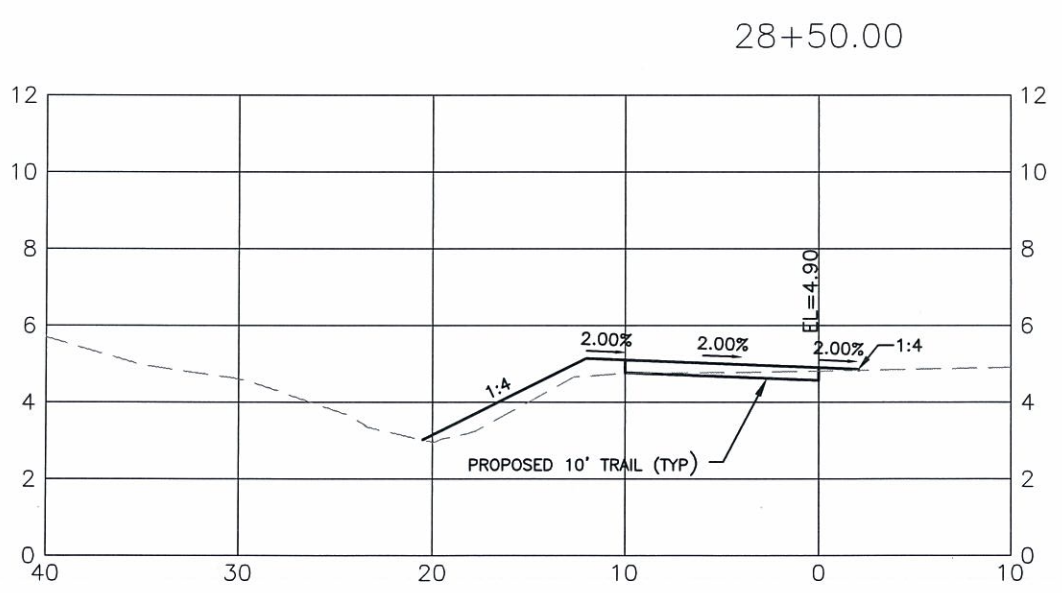
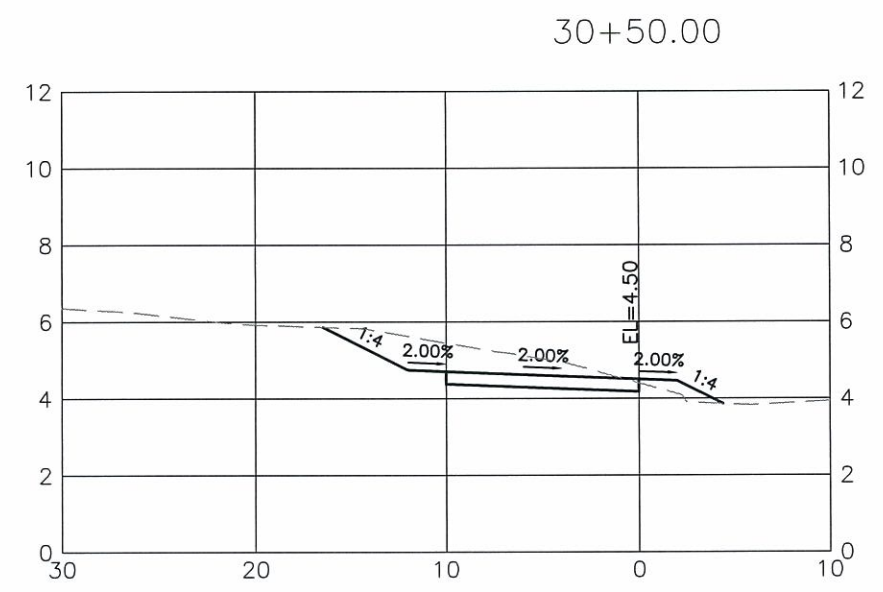
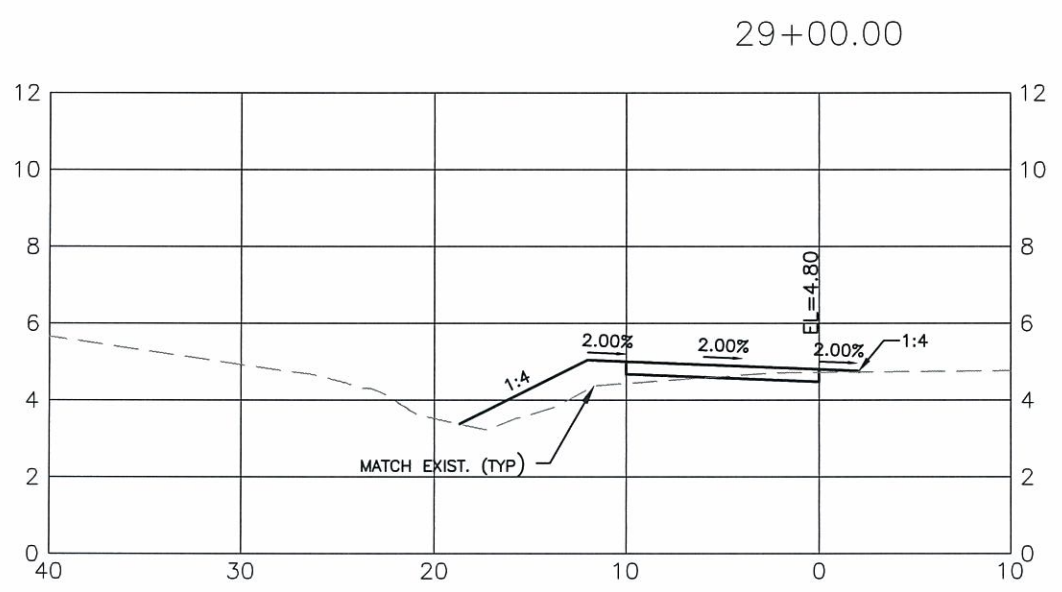
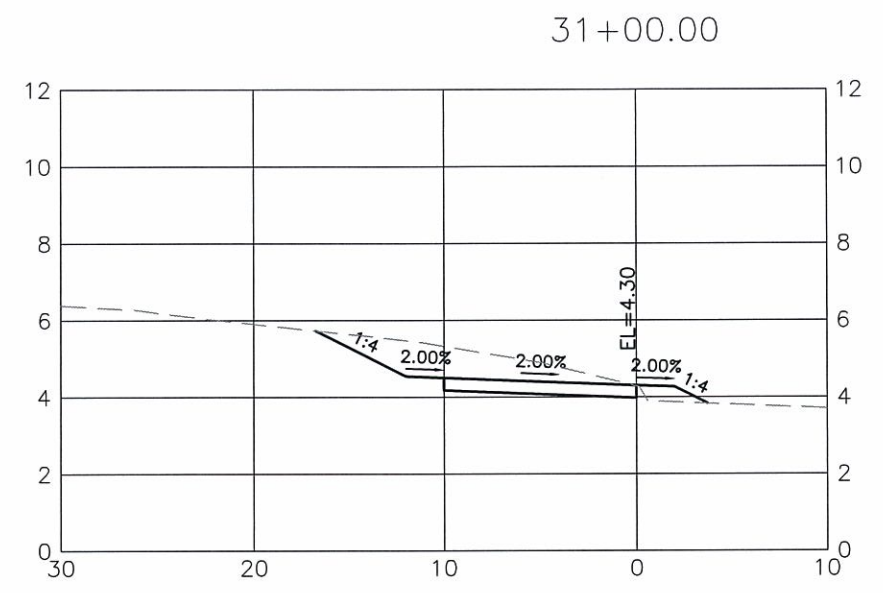
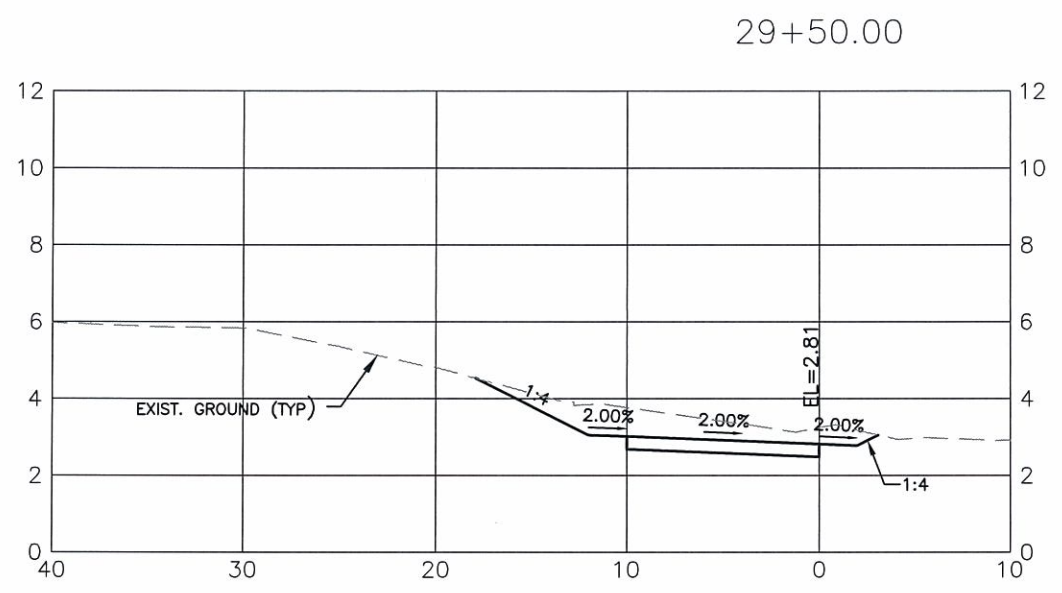
27+00.00



S:\PWD_Engineering_Shore\Highway_Engineering\EDOT_Projects\Neal_Preserve_Trail\DWG_P-X_Sect_NealTri.dwg, Section Sheet - (7), 2/9/2013 3:13 PM, Gregory Berkman, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

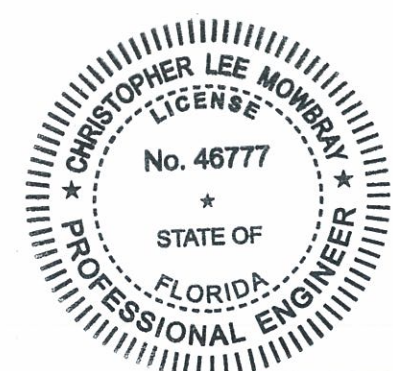
**NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK**

CROSS SECTIONS STA. 28+00 TO 30+50



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	FM #428133-1
SURVEY #	000
SEC./TWN./RGE	28/34S/16E
SCALE	1"=10'H/1"=5'V
	BY DATE
SURVEYED	00/00/00
DESIGNED	AM 08/10/11
DRAWN	GB 08/10/11
CHECKED	00/00/00



C. MOWBRAY P.E.
FLORIDA P.E. # 46777

[Signature]
2/11/13
Signature & Date

I:\P\01_Engineering_Shares\Highway_Engineering\FDOT_Projects\Neal_Preserve_Trail\DWG\2-2_Sect_NearTrl.dwg, Section Sheet - (6), 2/8/2013 3:13 PM Gregory Brinkman, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

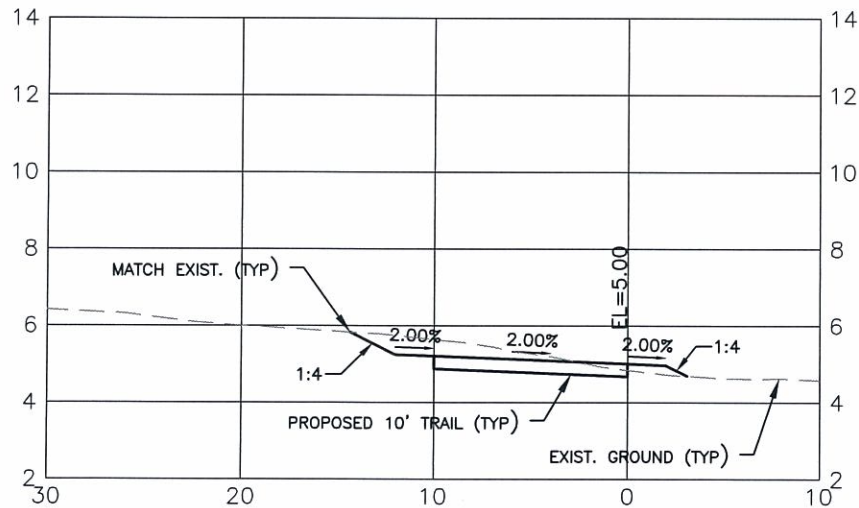
CUT AND FILL CALCULATION USING COMPOSE VOLUME METHOD

Index	Base Surface	Comparison Surface	Cut		Fill		Net	
			CY	CF	CY	CF	CY (Cut)	CF (Cut)
1	Exst_Surf	Corridor_Neal_Tri Surf_DATUM	621.85	16790	100.05	2701	521.8	14089

CUT AND FILL CALCULATION USING AVERAGE END METHOD

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
10+00.00	5.36	0.01	0.00	0.00	0.00	0.00	0.00
10+50.00	1.55	6.06	5.24	5.39	5.24	5.39	-0.14
11+00.00	14.41	0.53	14.78	6.10	20.02	11.49	8.53
11+50.00	18.91	0.21	30.85	0.68	50.87	12.18	38.69
12+00.00	22.25	0.32	38.11	0.49	88.98	12.67	76.31
12+50.00	18.53	0.71	37.76	0.96	126.74	13.62	113.11
13+00.00	20.65	0.18	36.28	0.83	163.02	14.45	148.57
13+25.00	22.25	0.00	24.07	0.08	187.09	14.53	172.56
13+50.00	8.66	1.20	11.73	0.58	198.82	15.11	183.71
13+75.00	7.66	1.10	7.56	1.07	206.38	16.18	190.20
14+00.00	9.90	1.03	8.13	0.99	214.51	17.17	197.34
14+25.00	6.12	1.52	7.42	1.18	221.93	18.35	203.58
14+50.00	3.37	1.52	3.13	1.43	225.06	19.78	205.27
14+75.00	9.96	0.62	4.29	0.97	229.34	20.75	208.59
15+00.00	29.01	0.00	18.04	0.29	247.38	21.04	226.34
15+25.00	30.78	0.00	27.68	0.00	275.07	21.04	254.03
15+50.00	11.79	0.24	19.71	0.11	294.78	21.15	273.62
15+75.00	3.81	1.22	6.15	0.67	300.92	21.82	279.10
16+00.00	1.93	1.50	1.93	1.22	302.85	23.04	279.81
16+25.00	2.02	1.50	1.56	1.35	304.41	24.39	280.01
16+50.00	0.67	5.18	1.50	3.17	305.91	27.57	278.35
16+75.00	0.45	2.68	0.52	3.64	306.43	31.20	275.23
17+00.00	6.88	0.18	2.96	1.19	309.38	32.39	277.00
17+50.00	4.92	0.17	10.92	0.33	320.30	32.71	287.59
18+00.00	4.50	0.29	8.72	0.43	329.03	33.14	295.88
18+50.00	4.07	0.38	7.94	0.62	336.97	33.76	303.21
19+00.00	8.65	0.14	11.78	0.48	348.74	34.24	314.50
19+50.00	3.92	0.42	11.64	0.52	360.38	34.76	325.62
20+00.00	4.38	0.30	7.69	0.67	368.07	35.43	332.64
20+50.00	4.41	0.25	8.14	0.51	376.21	35.94	340.26
21+00.00	6.14	0.27	9.77	0.48	385.98	36.42	349.56
21+50.00	4.30	0.49	9.67	0.70	395.65	37.12	358.53
22+00.00	4.97	0.29	8.59	0.72	404.23	37.84	366.39
22+50.00	3.23	0.90	7.60	1.10	411.83	38.94	372.89
23+00.00	3.48	0.78	6.21	1.55	418.04	40.49	377.55
23+50.00	4.57	0.19	7.45	0.89	425.49	41.39	384.11
24+00.00	3.93	0.47	7.87	0.61	433.37	42.00	391.37
24+50.00	1.03	4.57	4.59	4.67	437.95	46.67	391.28
25+00.00	0.30	4.44	1.23	8.35	439.18	55.02	384.17
25+50.00	2.88	1.28	2.92	5.18	442.10	60.20	381.91
26+00.00	0.66	5.49	3.28	6.27	445.38	66.47	378.91
26+50.00	3.57	0.95	3.92	5.97	449.30	72.43	376.87
27+00.00	6.54	0.23	9.36	1.09	458.66	73.52	385.13
27+50.00	5.33	0.18	10.99	0.38	469.65	73.90	395.74
28+00.00	1.28	2.62	6.12	2.59	475.77	76.49	399.28
28+50.00	1.06	3.96	2.17	6.09	477.94	82.59	395.35
29+00.00	0.84	5.85	1.76	9.08	479.69	91.67	388.02
29+50.00	13.21	0.00	12.15	4.71	491.84	96.38	395.46
30+00.00	5.77	1.80	18.89	1.62	510.74	98.00	412.73
30+50.00	10.91	1.04	15.44	2.63	526.18	100.63	425.55
31+00.00	11.73	1.00	20.96	1.89	547.14	102.52	444.62
31+50.00	6.34	0.54	16.73	1.43	563.87	103.95	459.92

31+50.00



NEAL PRESERVE FROM
CAUSEWAY PATH
BOARDWALK
CROSS SECTIONS STA. 31+00 TO 31+50

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	FM #428133-1		
SURVEY #	000		
SEC./TWN./RGE	28/34S/16E		
SCALE	1"=10'H/1"=5'V		
DESIGNED BY	LEE MOGIBRAY	DATE	08/01/11
DRAWN BY	GB	DATE	08/11/11
CHECKED BY	46777	DATE	00/00/00
C. MOGIBRAY P.E.			
FLORIDA P.E. # 46777			
STATE OF FLORIDA PROFESSIONAL ENGINEER			
signature date			
SHEET 21			

S:\P\RD_Engineering_Shera_Vhighway_Engineering_VDOT_Projects\Neal_Preserve_Trial\DWG\31+50_Sect_NealTri.dwg, Section, sheet - (0), 27/9/2013 3:14 PM, Grigory Bekhman, 1:1, ANSI full bleed B (17.00 x 11.00 Inches)