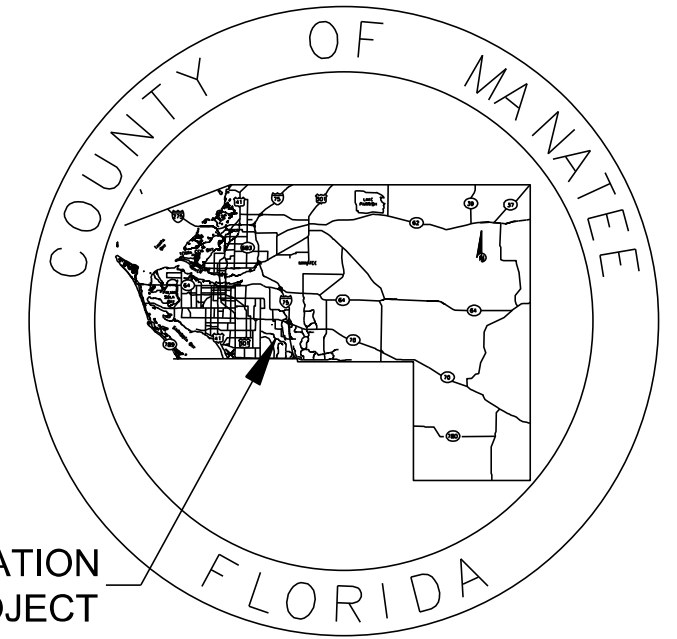


STATE OF FLORIDA COUNTY OF MANATEE

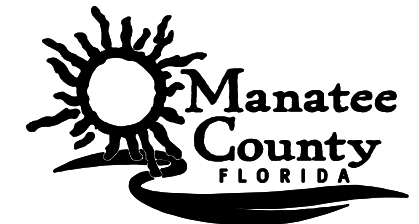
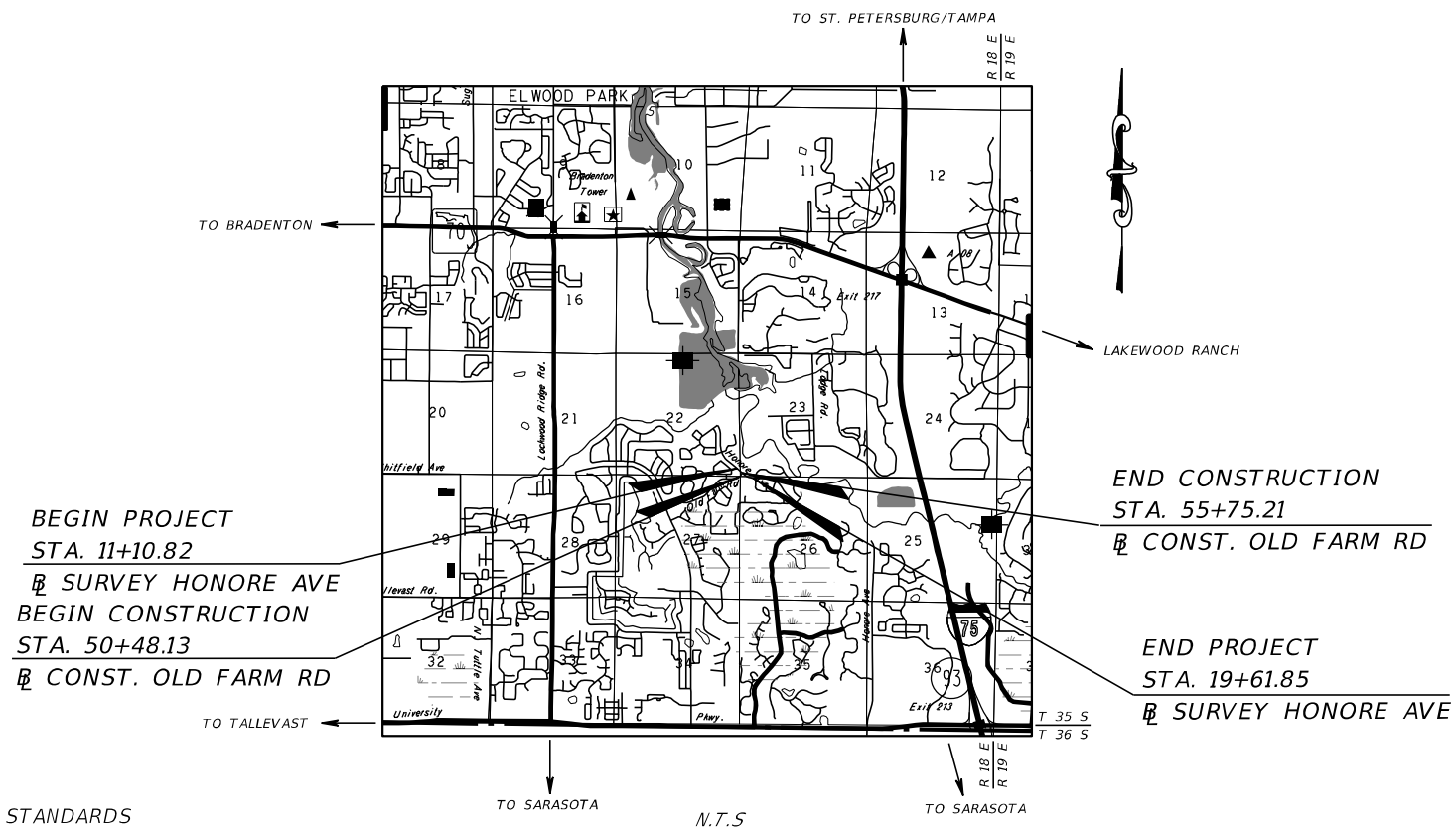
PLANS FOR PROPOSED INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD BRADENTON, FLORIDA

MANATEE COUNTY PROJECT No: 6105060
OCTOBER 2023



LOCATION OF PROJECT

INDEX OF ROADWAY PLANS	
Sheet No.	Description
1	KEY SHEET
2-3	SIGNATURE SHEET
4	SUMMARY OF PAY ITEMS
5	PROJECT LAYOUT
6-8	GENERAL NOTES
9	SUMMARY OF DRAINAGE STRUCTURES
10-20	TYPICAL SECTIONS
21-23	ROADWAY PLANS
24-25	ROADWAY PROFILES
26	INTERSECTION GRADING DETAILS
27-35	CROSS SECTIONS
36-38	STORMWATER POLLUTION PREVENTION PLAN
39-40	EROSION CONTROL PLAN
41	SPM NOTES AND DETAILS
42-43	SIGNING AND PAVEMENT MARKING PLAN
44-47	GUIDE SIGN WORKSHEET
48	LIGHTING GENERAL NOTES
49	LIGHTING DATA TABLE AND LEGEND
50-51	LIGHTING PLANS
52	LOAD CENTER PANEL SCHEDULE
53	TRAFFIC CONTROL NOTES
54	SOIL BORINGS SHEET
55-56	UTILITY ADJUSTMENTS
U-1	UTILITY RELOCATION NOTES
U-2	UTILITY TABULATION OF QUANTITIES
U-3 TO U-5	UTILITY RELOCATIONS
U-6 TO U-9	STANDARD UTILITY DETAILS



ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ENLARGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2023-24 DESIGN STANDARDS eBOOK (DSeB) AND APPLICABLE DESIGN STANDARDS REVISIONS (DSRs) AT THE FOLLOWING WEBSITE:
<https://www.fdot.gov/design/standardplans/current/default.shtm>

MANATEE COUNTY, PUBLIC WORKS STANDARDS FOR HIGHWAY AND TRAFFIC STANDARDS (APRIL 2022) AND UTILITIES STANDARDS (FEBRUARY 2020):
https://www.myanatee.org/departments/public_works/infrastructure_engineering

GOVERNING STANDARD SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2023-24 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

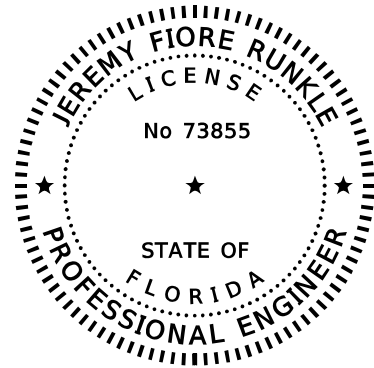
PROJECT LENGTH IS BASED ON B/L OF SURVEY

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY (HONORE AVENUE)	851.03	0.161
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	851.03	0.161

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY PLANS
PROFESSIONAL OF RECORD: JEREMY FIORE RUNKLE, P.E.
FLORIDA P.E. # 73855

FISCAL YEAR	SHEET NO.
23	1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Digitally signed by
Jeremy F Runkle
 Date: 2023.10.31
 13:30:10-04'00'

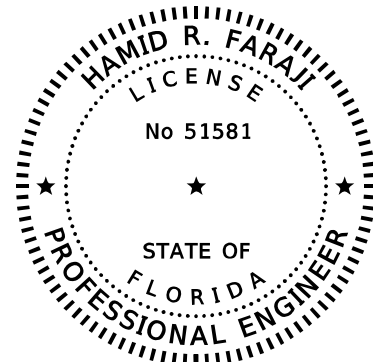
ON THE DATE ADJACENT TO THE SEAL

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STANTEC
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FL 33759
 PHONE NUMBER: (727) 531-3505
 JEREMY FIORE RUNKLE, P.E. 73855

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1	KEY SHEET
2	SIGNATURE SHEET
4	SUMMARY OF PAY ITEMS
5	PROJECT LAYOUT
6-8	GENERAL NOTES
10-20	TYPICAL SECTIONS
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42-43	SIGNING AND PAVEMENT MARKING PLAN
44-47	GUIDE SIGN WORKSHEET
53	TRAFFIC CONTROL NOTES
55-56	UTILITY ADJUSTMENTS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Digitally signed by
Hamid R Faraji
 Date: 2023.10.31
 11:10:56 -05'00'

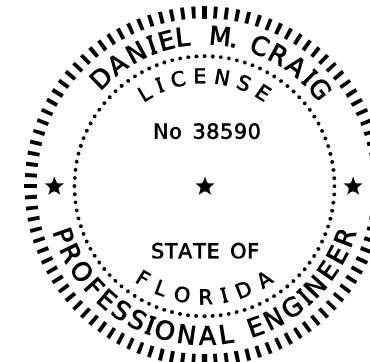
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STANTEC
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FL 33759
 PHONE NUMBER: (727) 531-3505
 HAMID R. FARAJI, P.E. 51581

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
9	SUMMARY OF DRAINAGE STRUCTURES
36-38	STORMWATER POLLUTION PREVENTION PLAN
39-40	EROSION CONTROL



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Digitally signed by
Daniel M Craig
 Date: 2023.10.31
 11:43:56 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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STANTEC
 1821 VICTORIA AVENUE, SUITE 1
 FORT MYERS, FL 33901
 PHONE NUMBER: (239) 347-5512
 DANIEL M. CRAIG, P.E. 38590

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
U-1	UTILITY RELOCATION NOTES
U-2	UTILITY TABULATION OF QUANTITIES
U-3 TO U-5	UTILITY RELOCATIONS
U-6 TO U-9	STANDARD UTILITY DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY



380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



MANATEE COUNTY
 PUBLIC WORKS
 COUNTY PROJECT NO:
 6105060

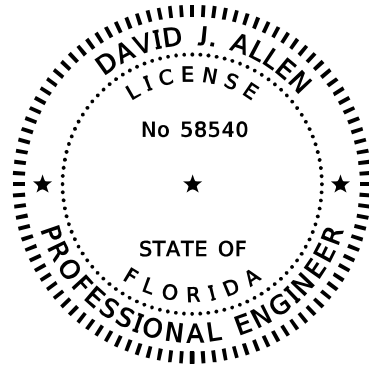
INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

SIGNATURE SHEET (1)

SHEET NO.

2

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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SIGNED AND SEALED BY

David J Allen
2023.10.31 10:59:38 -04'00'

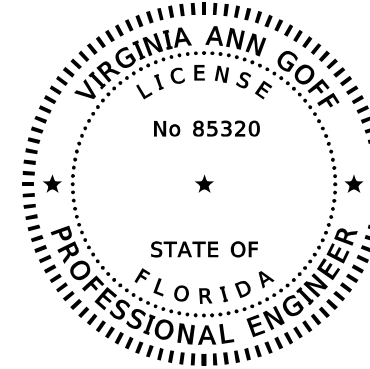
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STANTEC
3905 CRESCENT PARK DRIVE
RIVERVIEW, FL 33578
PHONE NUMBER: (813) 664-4500
DAVID J. ALLEN, P.E. 58540

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
3	SIGNATURE SHEET
48	LIGHTING GENERAL NOTES
49	LIGHTING DATA TABLE AND LEGEND
50-51	LIGHTING PLANS
52	LOAD CENTER PANEL SCHEDULE



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

Virginia Goff Digitally signed
by Virginia Goff
Date: 2023.10.30
17:10:15 -04'00'

ON THE DATE ADJACENT TO THE SEAL



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ARDAMAN & ASSOCIATES, INC.
1724 BARBER RD.
SARASOTA, FL 34240
PHONE NUMBER: (941) 922-3526
VIRGINIA ANN GOFF, P.E. 85320

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
3	SIGNATURE SHEET
54	SOIL BORINGS SHEET

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				 STANTEC CONSULTING SERVICES INC.	380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727) 531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6105060	INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD	SHEET NO.
NO.	DESCRIPTION	DATE	BY				SIGNATURE SHEET (2)	3

SUMMARY OF PAY ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL
201020-001	MOBILIZATION	LS	1
201500-001	MAINTENANCE OF TRAFFIC	LS	1
0104-10-3	SEDIMENT BARRIER	LF	1455
0104-15	SOIL TRACKING PREVENTION DEVICE	EA	2
0104-18	INLET PROTECTION SYSTEM	EA	3
0110-1-1	CLEARING AND GRUBBING (1.124 AC)	LS	1
0110-4-10	REMOVAL OF EXISTING CONCRETE	SY	1167
0120-1	REGULAR EXCAVATION	CY	925
0120-6	EMBANKMENT	CY	235
0160-4	STABILIZATION, TYPE B, LBR 60, 12" MINIMUM THICKNESS	SY	2456
0285-709	OPTIONAL BASE, BASE GROUP 09	SY	2323
0327-70-1	MILLING EXISTING PAVEMENT AVERAGE 1 INCH	SY	1990
0327-70-4	MILLING EXISTING PAVEMENT AVERAGE 3 INCH	SY	934
0334-1-53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22 (2.0")	TN	391.3
0337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22 (1.0")	TN	251.8
339-1	MISCELLANEOUS ASPHALT PAVEMENT	TN	5.4
350-30-13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH	SY	146
0425-1-201	INLETS, CURB, TYPE 9, <10'	EA	3
0425-1-1351	INLETS, CURB, TYPE P-5, <10'	EA	3
0425-1-1361	INLETS, CURB, TYPE P-6, <10'	EA	3
0425-1-541	INLETS, DITCH BOTTOM, TYPE D, <10'	EA	1
0425-2-41	MANHOLES, P-7, <10'	EA	1
0425-2-43	MANHOLES, P-7, PARTIAL	EA	1
0425-2-63	MANHOLES, P-8, PARTIAL	EA	1
0430-175-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD	LF	8
0430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	557
0430-175-215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP/ARCH, 15" S/CD	LF	90
0520-1-7	CONCRETE CURB & GUTTER, TYPE E	LF	739
0520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	1420
0520-2-4	CONCRETE CURB, TYPE D	LF	163
0520-2-8	CONCRETE CURB, TYPE RA	LF	201
0522-1	CONCRETE SIDEWALK, 4" THICK	SY	590
0522-2	CONCRETE DRIVEWAYS, 6" THICK	SY	127
0527-2	DETECTABLE WARNINGS	SF	337
0536-1-0	GUARDRAIL - ROADWAY, GENERAL/LOW SPEED TL-2	LF	125
0536-8-111	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I, APPROACH TL-2	EA	1
0536-8-123	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I, TRAILING	EA	1
0536-73	GUARDRAIL REMOVAL	LF	108
0536-85-20	GUARDRAIL END TREATMENT - TRAILING ANCHORAGE	EA	1
0536-85-26	GUARDRAIL END TREATMENT - TYPE CRT	EA	1
0550-10-918	FENCING, SPECIAL TYPE, 0.0-5.0', RESET EXISTING	LF	40
0570-1-2	PERFORMANCE TURF, SOD	SY	846
0580-1-1	LANDSCAPE COMPLETE - SMALL PLANTS	LS	1
0581-1-1	RELOCATE TREE AND PALMS, PALM, >=14' OF CLEAR TRUNK	EA	2
0581-1-3	RELOCATE TREE AND PALMS, MULTI-TRUNK OR CLUSTERING	EA	2
0581-1-5	RELOCATE TREE AND PALMS, TREES, >=5" DIAMETER AT BREAST HEIGHT	EA	1
0630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	320
0630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	481
0635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	19
0639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1
0639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	60
0639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1
0641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE (12')	EA	2

SUMMARY OF PAY ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL
0654-2-21	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSY- SINGLE DIRECTION	AS	6
0654-2-22	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSY- BACK TO BACK	AS	2
0700-1-11	SINGLE POST SIGN, FURNISH & INSTALL, GROUND MOUNT, <12 SF	EA	20
0700-1-50	SINGLE POST SIGN, RELOCATE	AS	1
0700-1-60	SINGLE POST SIGN, REMOVE	AS	3
0700-2-14	MULTI-POST SIGN, F&I, GROUND MOUNT, 31-50 SF	AS	3
0700-2-50	MULTI-POST SIGN, GROUND MOUNT, RELOCATE (HOA SIGNS)	AS	2
0706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	70
0711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	240
0711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	260
0711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM	0.034
0711-11-144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE, 12" FOR ROUNDABOUT	GM	0.023
0711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	4
0711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	4
0711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	40
0711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.329
0711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.457
0715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	4301
0715-4-12	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 35' MH	EA	10
0715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1
0715-11-438	LUMINAIR, RELOCATE, SIGN, FLOOD	EA	3
0715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	10
0751-44-1	FLAG POLE, UP TO 25'	EA	1
1000-10	MOBILIZATION (UTILITY CONTRACTOR)	LS	1
1000-20	PRESSURE TEST	LS	1
1000-30	CHLORINATION	LS	1
1000-40	CONTRACTOR ASBUILTS	LS	1
1010-012	12" CUT IN CONNECTION	EA	2
1010-016	16" CUT IN CONNECTION	EA	1
1050-16001	1.5" WM SERVICE REMOVAL	LF	55
1050-16003	UTILITY PIPE, REMOVE & DISPOSE, 12"	LF	197
1050-16004	UTILITY PIPE, REMOVE & DISPOSE, 16"	LF	124
1050-31-211	UTILITY PIPE - POLY VINYL CHLORIDE, F&I, WATER/SEWER, 1"	LF	100
1050-51212	12" CL350 DIP WATERMAIN	LF	270
1050-51216	16" CL350 DIP WATERMAIN	LF	108
1055-51116	UTILITY FITTINGS, 16"- 90 DEG MJ BEND (RJ)	EA	1
1055-52112	UTILITY FITTINGS, 12"-45 DEG MJ BEND (RJ)	EA	11
1055-52116	UTILITY FITTINGS, 16"-45 DEG MJ BEND (RJ)	EA	1
1055-53112	UTILITY FITTINGS, 12"-22.5 DEG MJ BEND (RJ)	EA	1
1055-54306	UTILITY FITTINGS, 12"X6" MJ REDUCER (RJ)	EA	1
1055-54312	UTILITY FITTINGS, 16"X12" MJ REDUCER (RJ)	EA	1
1055-55212	UTILITY FITTINGS, 12"X12" MJ CROSS (RJ)	EA	1
1080-21101	POTABLE WATER SERVICE, 1.5", SCH 80	LF	62
1080-24112	UTILITY FIXTURE - 12" GV W/BOX, PAD, ID & TRACER	EA	1
1644-113	FIRE HYDRANT ASSEMBLY, COMPLETE	EA	1
1644-900	FIRE HYDRANT, REMOVE	EA	1
1800-1000	ADJUST MH RIM & COVER	EA	2
1800-1100	ADJUST VALVE	EA	1
1800-1200	RELOCATE EXISTING WATER METER, BOX & BACKFLOW PREVENTION DEVICE	EA	1

REVISIONS			
NO.	DESCRIPTION	DATE	BY

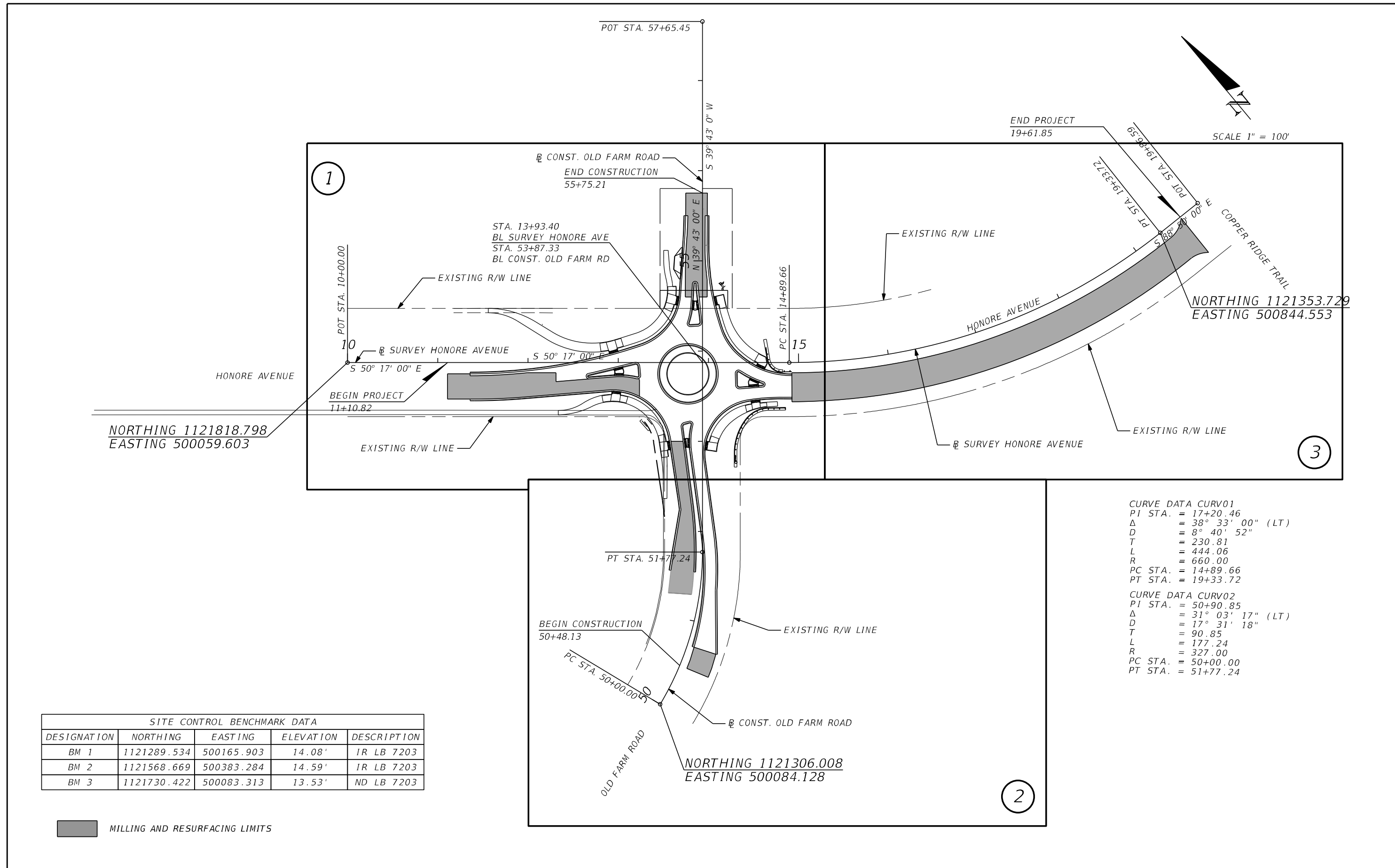


JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO.
SUMMARY OF PAY ITEMS		4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NORTHING 1121818.798
EASTING 500059.603

NORTHING 1121353.729
EASTING 500844.553

NORTHING 1121306.008
EASTING 500084.128

CURVE DATA CURV01
 PI STA. = 17+20.46
 Δ = 38° 33' 00" (LT)
 D = 8° 40' 52"
 T = 230.81
 L = 444.06
 R = 660.00
 PC STA. = 14+89.66
 PT STA. = 19+33.72

CURVE DATA CURV02
 PI STA. = 50+90.85
 Δ = 31° 03' 17" (LT)
 D = 17° 31' 18"
 T = 90.85
 L = 177.24
 R = 327.00
 PC STA. = 50+00.00
 PT STA. = 51+77.24

SITE CONTROL BENCHMARK DATA				
DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 1	1121289.534	500165.903	14.08'	IR LB 7203
BM 2	1121568.669	500383.284	14.59'	IR LB 7203
BM 3	1121730.422	500083.313	13.53'	ND LB 7203

MILLING AND RESURFACING LIMITS

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

PROJECT LAYOUT

SHEET NO.
 5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE COUNTY PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: DANIEL GARNER AND CAN BE REACHED AT (941) 708-7450; EXT. 7236.
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 "THE NORTH AMERICAN VERTICAL DATUM OF 1988", (NAVD '88).
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. ALL STATIONS AND OFFSETS REFER TO BASELINE OF SURVEY OR 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: THIS INCLUDED MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
14. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
15. MONUMENTATION - HORIZONTAL CONTROL, BENCHMARKS, ETC. SET BY THE SURVEYOR, SHALL HAVE THEIR COMPANY IDENTIFICATION ON THE TAG, DISK OR CAP. AT THE COMPLETION OF THE PROJECT, SURVEY CONTROL, BENCHMARKS, PROPERTY CORNERS, ETC. LOST DUE TO CONSTRUCTION SHALL BE RESET.

SAFETY NOTES



16. 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.
17. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
18. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
19. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL NOTES

20. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF 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 AND 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
28. 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.

RIGHT-OF-WAY NOTES

29. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
30. 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.
31. 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 FDOT STANDARD PLANS AND THE FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
32. 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.
33. 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.
34. 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.
35. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE COUNTY PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

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NO.	DESCRIPTION	DATE	BY				GENERAL NOTES (1)		

UTILITIES NOTES

- 36. 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.
- 37. 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. ALL SEWER AND WATER VALVES SHOULD REMAIN ACCESSIBLE THROUGHOUT CONSTRUCTION AND BRING TO FINAL GRADE PER SPECIFICATIONS. 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.
- 38. 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.
- 39. 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.
- 40. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/FOUNDATIONS, 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.
- 41. 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.
- 42. 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 FRANK CONETTA, WITH UTILITY RECORDS (941-792-8811 EXT. 5027).



DRAINAGE AND GRADING NOTES

- 43. 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 (NWL25), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS).
- 44. 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.

- 45. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
- 46. 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.
- 47. 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.
- 48. 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.
- 49. 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.
- 50. 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 STANDARD PLANS INDEX 505.
- 51. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
- 52. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- 53. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
- 54. ON SLOPES GREATER THAN 3:1, PEGGING OR PINNING OF SOD MAY BE REQUIRED.
- 55. 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" SHOWN IN FDOT STANDARD PLANS INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
- 56. 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.
- 57. 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.

RESTORATION NOTES

- 58. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 59. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 60. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE FDOT. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND FDOT STANDARD PLANS INDEX 522-001.
- 61. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- 62. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

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NO.	DESCRIPTION	DATE	BY				GENERAL NOTES (2)		7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CONSTRUCTION NOTES

63. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
64. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
65. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
66. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
67. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.
68. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTRICT FOR APPROVAL PRIOR TO CONSTRUCTION.
69. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
70. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS.
71. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
72. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
73. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
74. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION.
75. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
76. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
77. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
78. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
79. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
80. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
81. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
82. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.
83. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
84. ALL EXISTING TREES LOCATED WITHIN CONSTRUCTION LIMITS OR CLEAR ZONE SHALL REMAIN, UNLESS OTHERWISE NOTED.

85. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).
86. THE EXISTING STORM DRAINAGE STRUCTURES SHALL REMAIN, UNLESS OTHERWISE NOTED.
87. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS.
88. EXISTING VALVES AND MANHOLES WITHIN THE PROJECT LIMITS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION AND ADJUSTED TO FINAL GRADE.
89. DUE TO THE VARIABLE ASPHALT PAVEMENT THICKNESS, AREAS OF THE BASE MAY BE EXPOSED.
90. ALL LANDSCAPE IRRIGATION MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY THE CONTRACTOR.

PAY ITEM NOTES

- 201500-001: LUMP SUM INCLUDES COST OF ALL INCIDENTAL MOT ITEMS.
- 0334-1-53: INCLUDES COST OF TYPE S-I ASPHALT.
- 0337-7-82: INCLUDES COST OF TYPE S-III ASPHALT WITH PRIME COAT.
- 0550-10-918: INCLUDES RELOCATION OF HOA FENCE AND ATTACHED LIGHTING AND ELECTRICAL. COST OF LABOR AND ANY ADDITIONAL MATERIAL LIKE CONDUIT AND CONDUCTORS THAT IS NECESSARY TO SUCCESSFULLY RELOCATE AND ENERGIZE THE LIGHTING AND OUTLETS SHALL BE INCLUDED.
- 0715-11-438: RELOCATION OF FLOOD LIGHT(S) FOR HOA SIGN. INCLUDES COST OF REMOVING AND INSTALLING THE FLOOD LIGHT AND REROUTING UNDERGROUND POWER CONDUIT AND CONDUCTORS. COST OF LABOR AND ANY ADDITIONAL MATERIAL LIKE CONDUIT AND CONDUCTORS THAT IS NECESSARY TO SUCCESSFULLY RELOCATE AND ENERGIZE THE FLOOD LIGHT SHALL BE INCLUDED.
- 1050-31-211: INCLUDES COST OF ALL FITTINGS AND NEW OR RELOCATED IRRIGATION HEADS.

LEGEND					
EXISTING					
BM	BENCH MARK		BUSH	ABBREVIATIONS	
CM	CONCRETE MONUMENT		TREE		
IP	IRON PIPE		OAK TREE	R/W	RIGHT OF WAY
IR	IRON ROD		PALM TREE	CONC	CONCRETE
HUB	HUB		PINE TREE	ASPH	ASPHALT
N&D	NAIL & DISK			DRWY	DRIVEWAY
	ELEVATION			SWK	SIDEWALK
	PARCEL ID NO.			EP	EDGE OF PAVEMENT
	LOT NO.			BOC	BACK OF CURB
	CHAIN LINK FENCE				
	WOOD FENCE				
	BARBED WIRE FENCE				
	FORCE MAIN				
	POTABLE WATER				
	RECLAIMED WATER				PROPOSED
	SANITARY SEWER				
	STORM DRAIN				MAIN
	GAS LINE				SERVICE LINE
	OVERHEAD TV				PROPOSED EASEMENT
	UNDERGROUND TV				FIRE HYDRANT
	OVERHEAD ELECTRIC				VALVE
	UNDERGROUND ELECTRIC				SANITARY SEWER MANHOLE
	OVERHEAD VERIZON				BLOW OFF ASSEMBLY
	UNDERGROUND VERIZON				REDUCER
	VERIZON				TEE
	UNDERGROUND UTILITY				HORIZONTAL BEND
	OVERHEAD UTILITY				VERTICAL BEND
	RAIL ROAD TRACKS				PLUG
	EDGE OF CONCRETE				MASTER METER ASSEMBLY
	EDGE OF ROAD				
	TOE OF SLOPE				SERVICE LINE & METER
	TOP OF BANK				DOUBLE SERVICE
	PROPERTY LINE				
	RIGHT OF WAY				

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

GENERAL NOTES (3)

SHEET NO.

8

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM SEWER PIPE		CURB INLETS			DITCH BOTTOM INLETS	MANHOLES			REMARKS
						ROUND	ROUND	P-5	P-6	P-9	D	P-7	P-7 PAR.	P-8 PAR.	
						15"	18"	<10	<10	<10	<10	<10	<10	<10	
P	S-1	12+55.00	LT	Inlet, Pipe	1		159				1				
F															
P	S-2	12+70.00	RT	Inlet, Pipe	1		46			1					
F															
P	S-3	13+10.00	LT	Inlet, Pipe	1		44			1					
F															
P	S-4	55+20.00	LT	Inlet, Pipe	1		119			1					
F															
P	S-5	55+20.00	RT	Inlet, Pipe	1		23	1							
F															
P	S-6	14+36.00	LT	Inlet, Pipe	1		70			1					
F															
P	S-7	14+70.00	RT	Inlet, Pipe	1		44		1						
F															
P	S-8	53+17.63	RT	Manhole	1							1			
F															
P	S-9	53+19.05	LT	Manhole	1								1		
F															
P	S-10	52+65.00	LT	Inlet, Pipe	1		32		1						
F															
P	S-11	52+66.00	RT	Inlet, Pipe	1		58		1						
F															
P	S-12	13+62.00	LT	Manhole, Pipe	1		49				1				
F															
P	S-13	51+30.00	RT	Inlet, Pipe	1	4		1							
F															
SHEET TOTALS				PLAN QUANTITY		4	644	2	3	4	1	1	1	1	
				FINAL QUANTITY											

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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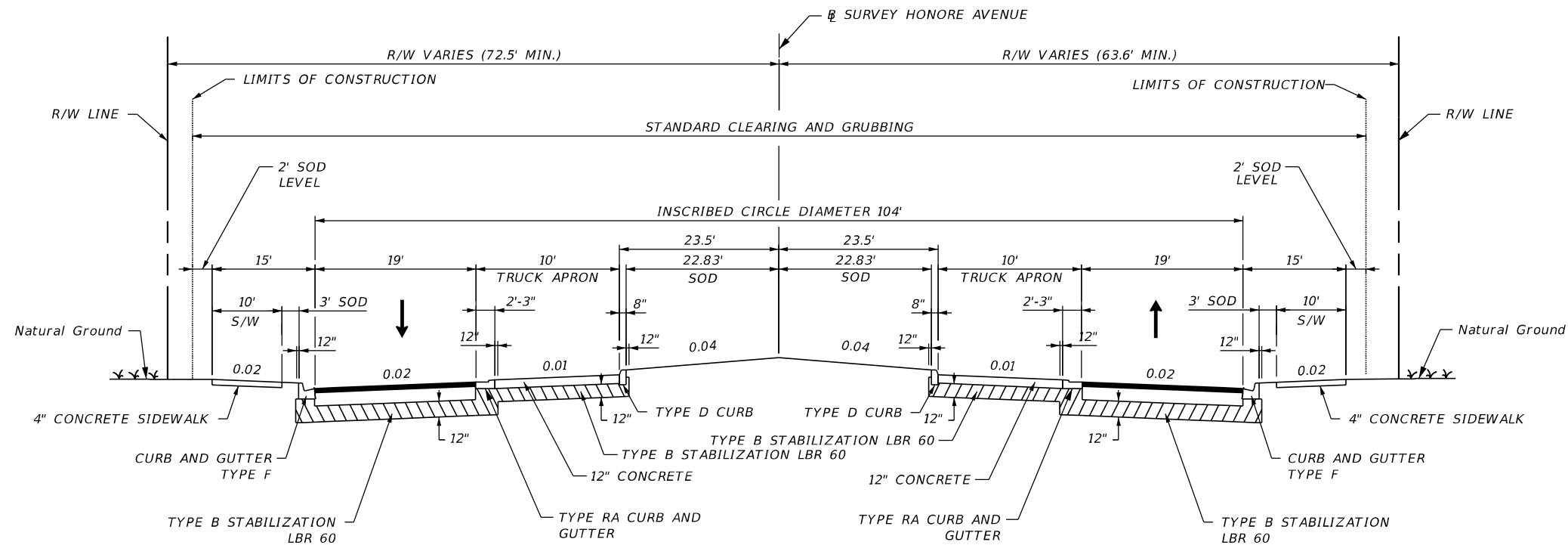


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6105060

INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD
SUMMARY OF
DRAINAGE STRUCTURES

SHEET NO.
9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



TYPICAL SECTION
HONORE AVENUE ROUNDABOUT
AT HONORE AVENUE AND OLD FARM ROAD
STA. 13+24.86 TO 14+67.43
OLD FARM ROAD
STA. 53+22.37 TO 54+27.27



CIRCULATORY ROADWAY

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
 TYPE S-I ASPHALT (2")
 AND TYPE S-III ASPHALT (1") WITH PRIME COAT

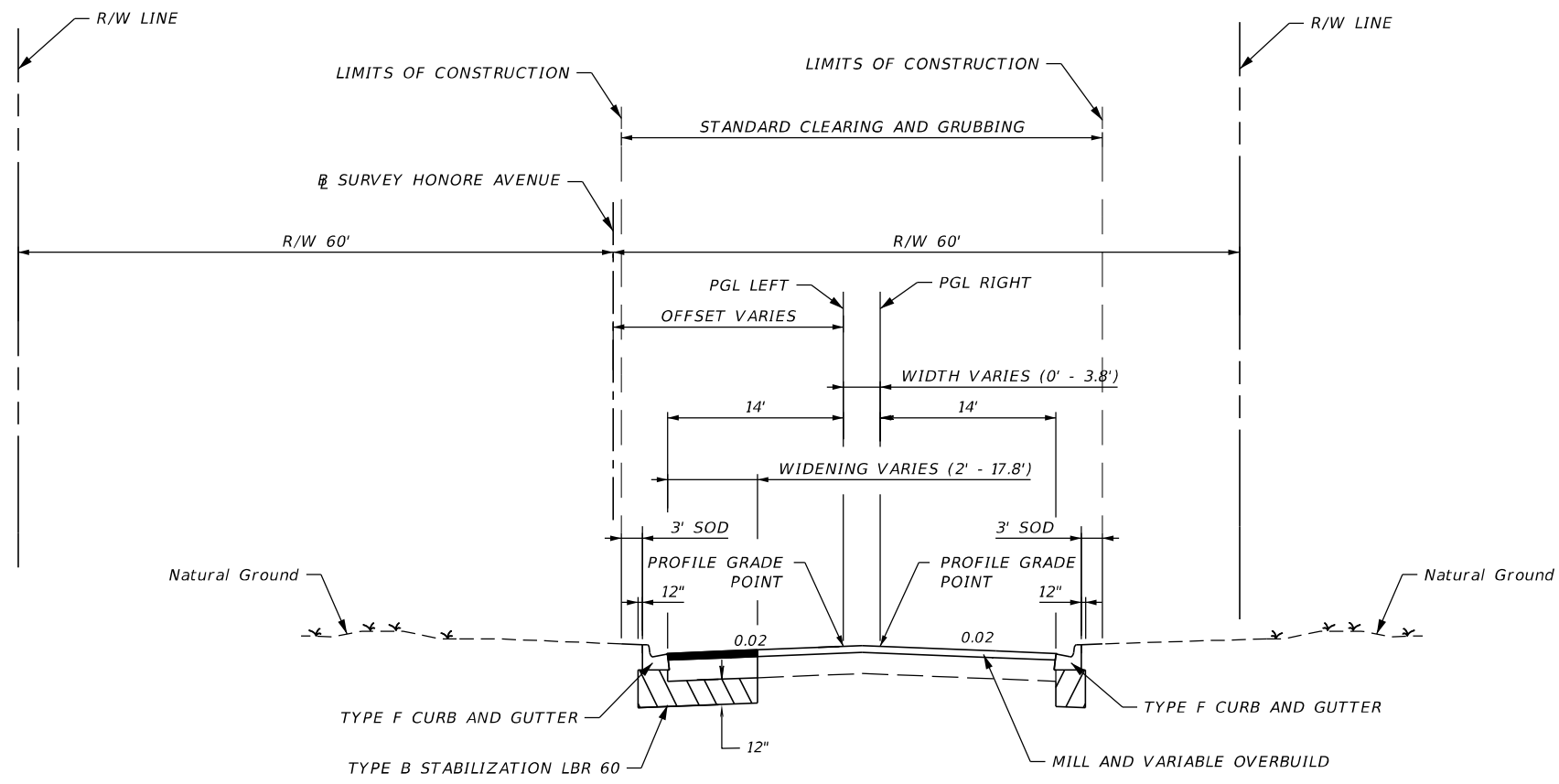
TRUCK APRON

CONCRETE (12") (AMS-STD-595-21105 RED)

DESIGN SPEED = 25 MPH

REVISIONS				 STANTEC CONSULTING SERVICES INC.	JEREMY F. RUNKLE, P.E. P.E. LICENSE NUMBER 73855 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727) 531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6105060	INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO. 10
NO.	DESCRIPTION	DATE	BY				TYPICAL SECTION (1)		

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**TYPICAL SECTION
HONORE AVENUE
STA. 11+35.82 TO STA. 12+64.59**

WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
TYPE S-I ASPHALT (2")
AND TYPE S-III ASPHALT (1") WITH PRIME COAT

MILLING

MILL EXISTING ASPHALT
PAVEMENT FOR DEPTH (1")

OVERBUILD FOR THICKNESS

TYPE S-I ASPHALT OVERBUILD THICKNESS VARIES ($\frac{3}{8}$ " TO $3\frac{1}{2}$ ")

RESURFACING

TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 35 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY

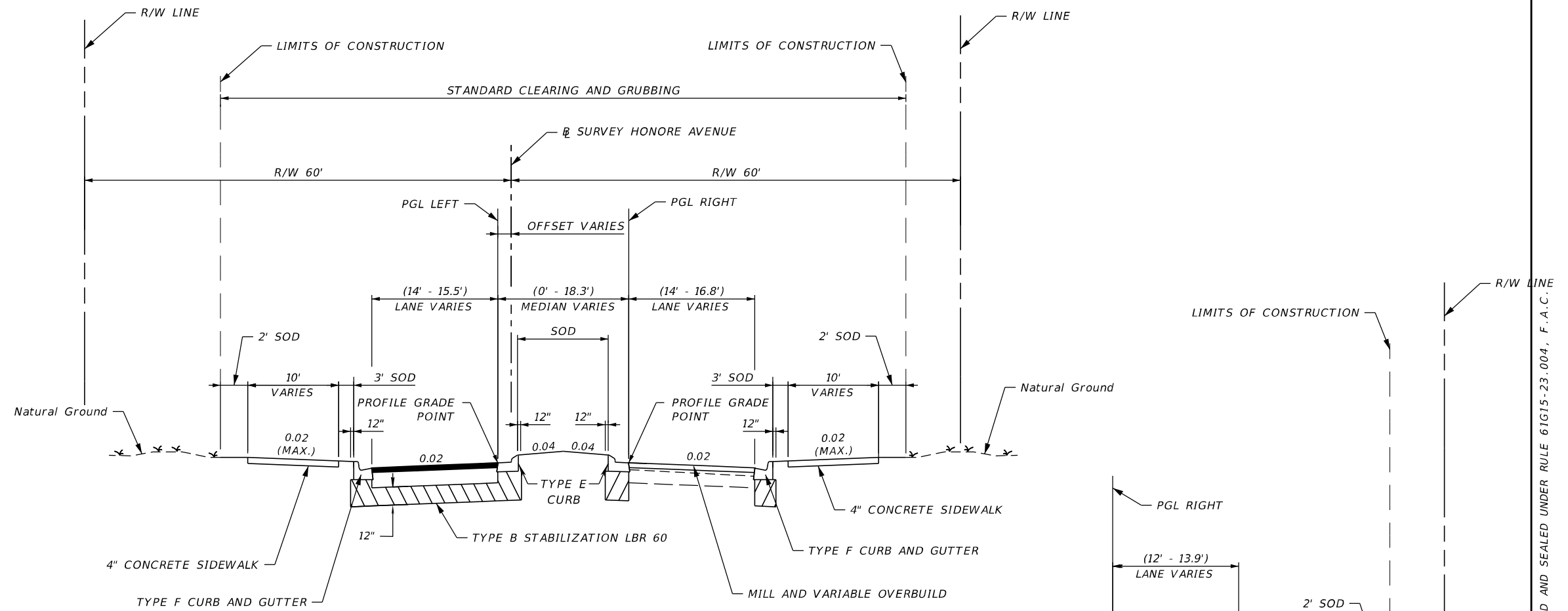


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INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD	SHEET NO.
TYPICAL SECTION (2)	11

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**TYPICAL SECTION
HONORE AVENUE
STA. 12+64.59 TO STA. 13+24.86
STA. 14+29.83 TO STA. 14+62.88 (LT)**

NEW CONSTRUCTION AND WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
TYPE S-I ASPHALT (2")
AND TYPE S-III ASPHALT (1") WITH PRIME COAT

MILLING

MILL EXISTING ASPHALT
PAVEMENT FOR DEPTH (1")

OVERBUILD FOR THICKNESS

TYPE S-I ASPHALT OVERBUILD THICKNESS VARIES ($\frac{3}{8}$ " TO $3\frac{1}{2}$ ")

RESURFACING

TYPE S-III ASPHALT (1") WITH PRIME COAT

STA. 14+29.83 TO STA. 14+62.88 (RT)

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
TYPE S-I ASPHALT (2")
AND TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 35 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
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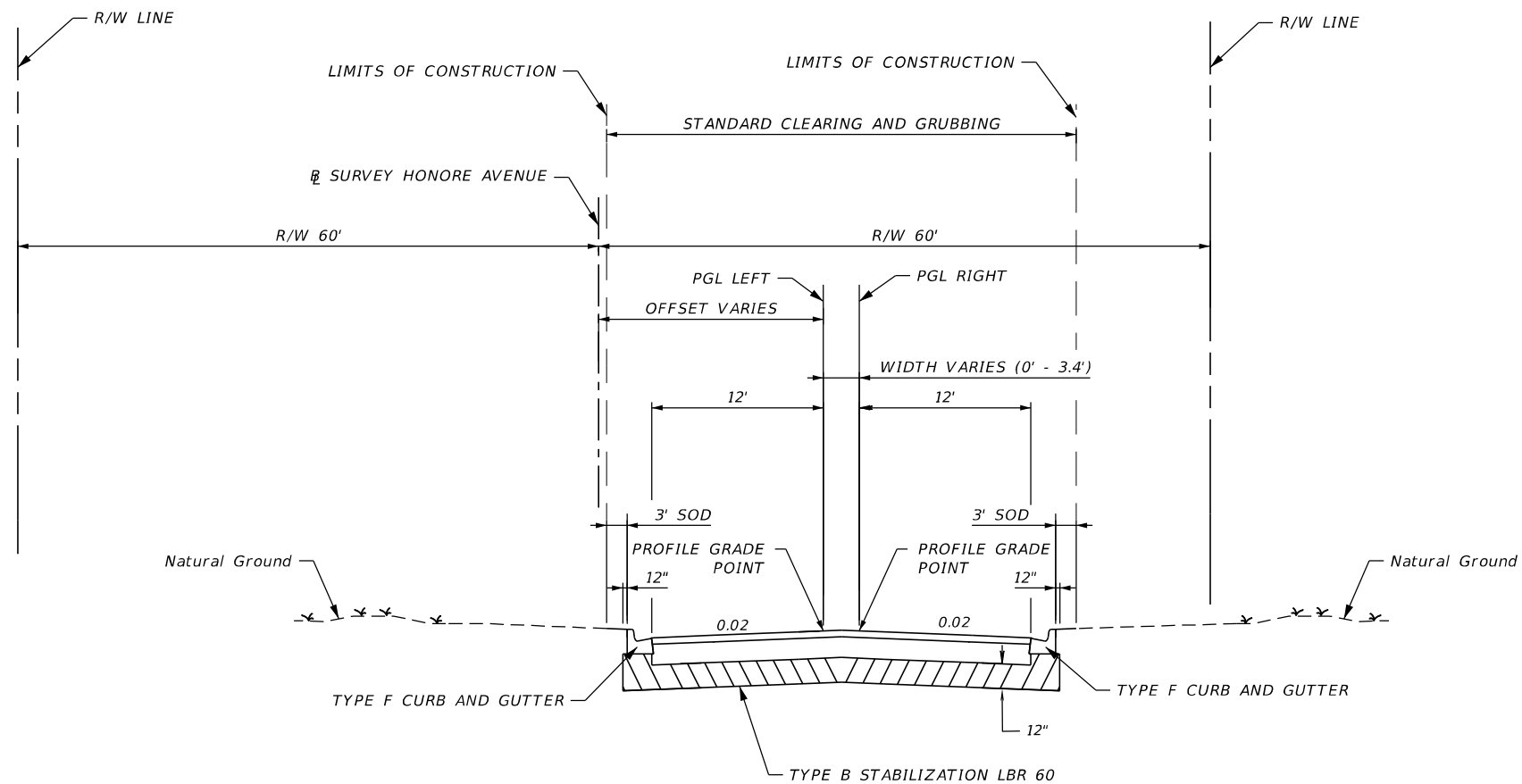
INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (3)

SHEET NO.

12

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**TYPICAL SECTION
HONORE AVENUE
STA. 14+62.88 TO STA. 14+92.44**

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
TYPE S-I ASPHALT (2")
AND TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 35 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6105060

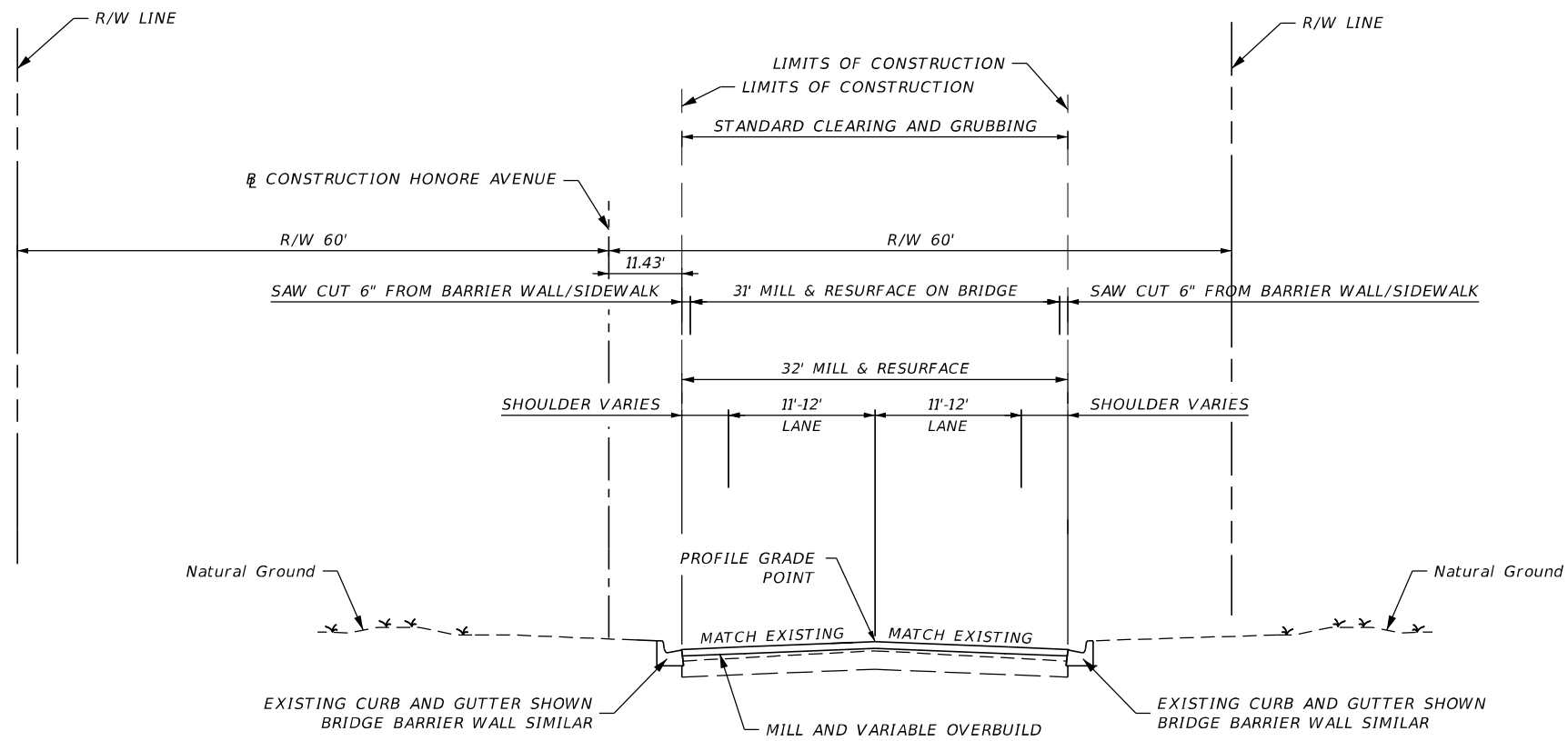
INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (4)

SHEET NO.

13

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**TYPICAL SECTION
 HONORE AVENUE
 STA. 14+92.44 TO STA. 16+85.59**

MILLING

MILL EXISTING ASPHALT
PAVEMENT FOR DEPTH (1")

RESURFACING

TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 35 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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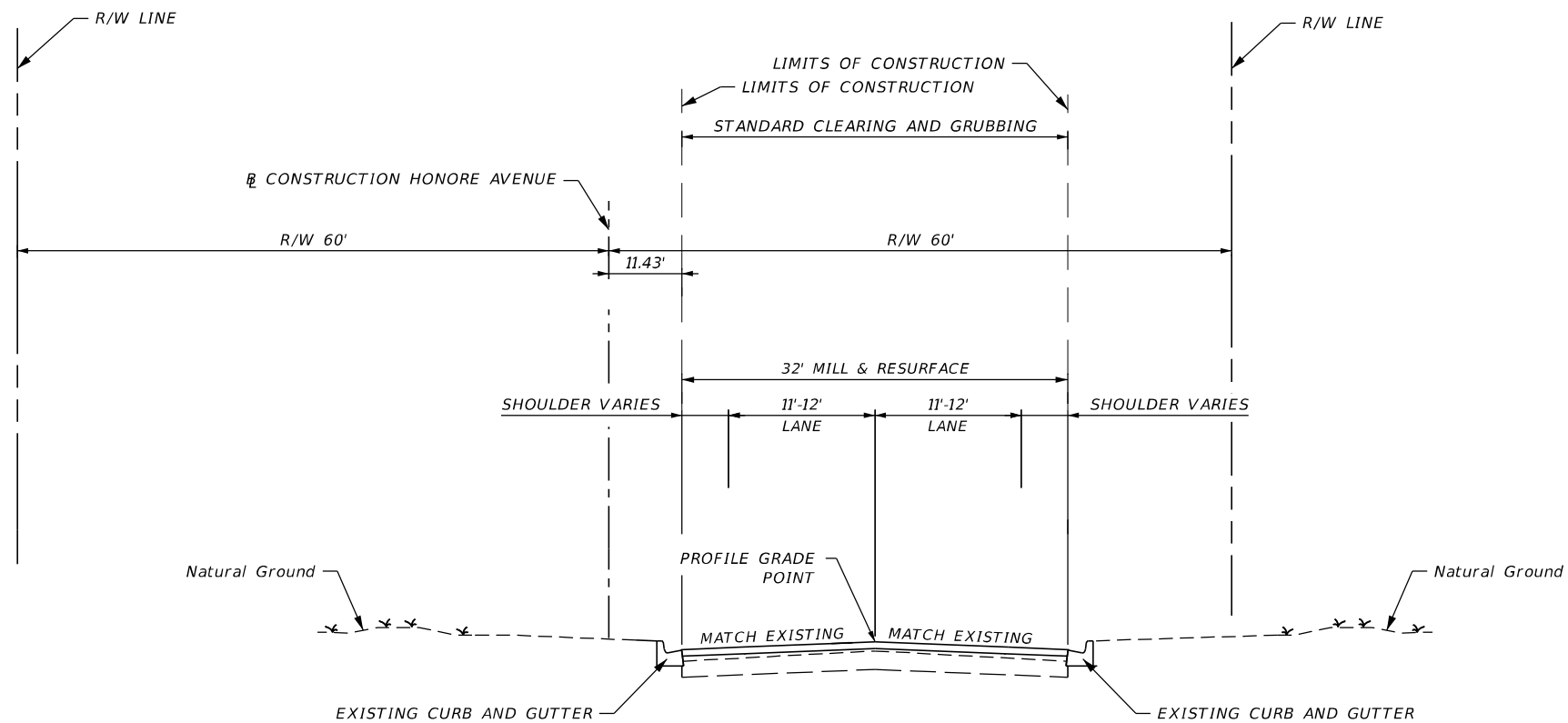
INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (5)

SHEET NO.

14

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**TYPICAL SECTION
HONORE AVENUE
STA. 16+85.59 TO STA. 19+61.85**

MILLING

MILL EXISTING ASPHALT
PAVEMENT FOR DEPTH (3")

RESURFACING

TYPE S-1 ASPHALT (2")
AND TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 35 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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**MANATEE COUNTY
PUBLIC WORKS**
COUNTY PROJECT NO:
6105060

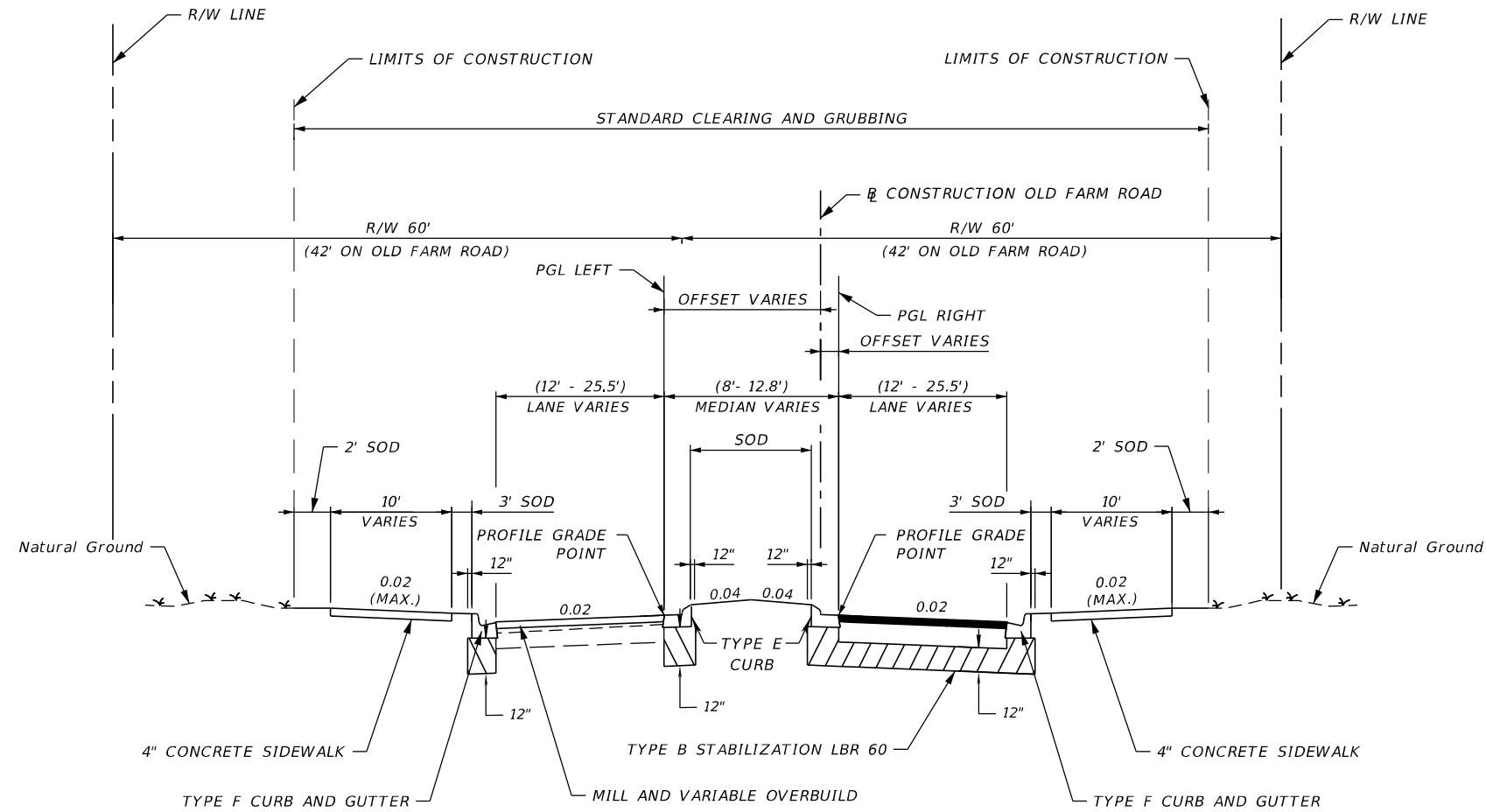
INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (6)

SHEET
NO.

15

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**TYPICAL SECTION
 OLD FARM ROAD
 STA. 51+54.54 TO STA. 53+00.00 (LT)
 STA. 50+72.51 TO STA. 53+00.00 (RT)**

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
 TYPE S-I ASPHALT (2")
 AND TYPE S-III ASPHALT (1") WITH PRIME COAT

MILLING

MILL EXISTING ASPHALT
 PAVEMENT FOR DEPTH (1")

OVERBUILD FOR THICKNESS

TYPE S-I ASPHALT OVERBUILD THICKNESS VARIES ($\frac{3}{8}$ " TO $3\frac{1}{2}$ ")

RESURFACING

TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 30 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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MANATEE COUNTY
 PUBLIC WORKS
 COUNTY PROJECT NO:
 6105060

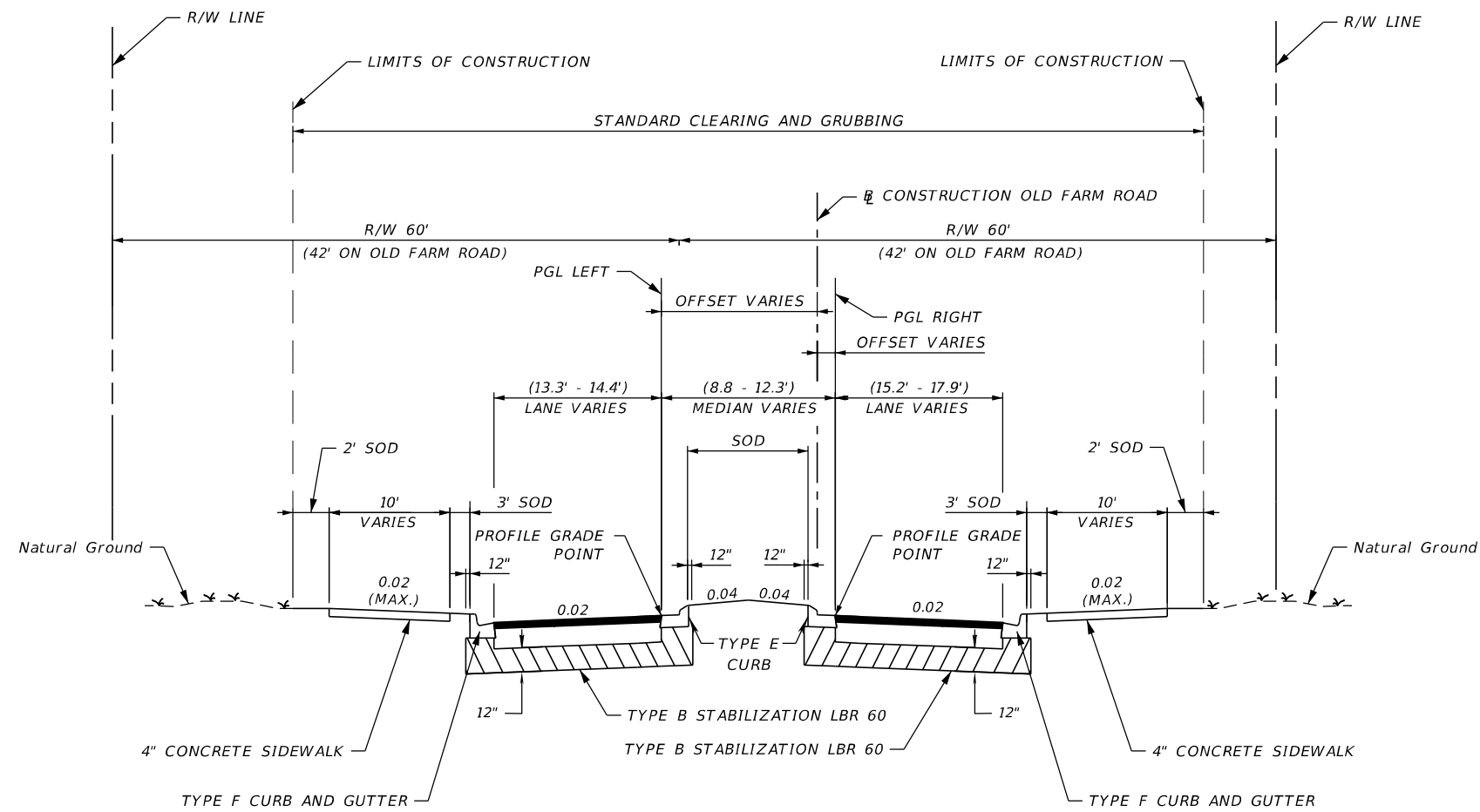
INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (7)

SHEET NO.

16

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**TYPICAL SECTION
 OLD FARM ROAD
 STA. 53+00.00 TO STA. 53+22.37**

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
 TYPE S-I ASPHALT (2")
 AND TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 30 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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 380 PARK PLACE BOULEVARD
 SUITE 300
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MANATEE COUNTY
 PUBLIC WORKS
 COUNTY PROJECT NO:
 6105060

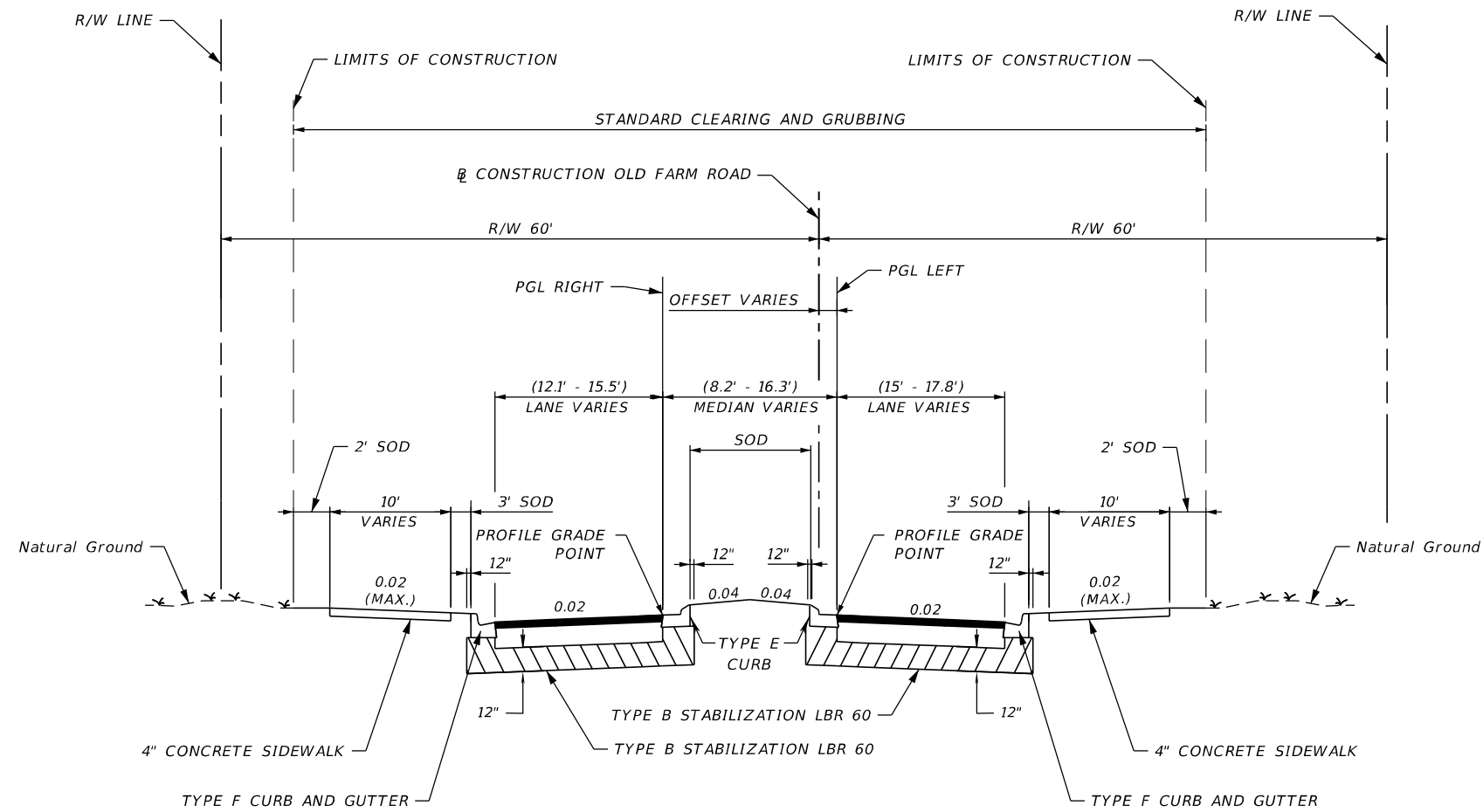
INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (8)

SHEET NO.

17

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**TYPICAL SECTION
 OLD FARM ROAD
 STA. 54+27.27 TO STA. 54+60.00**

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
 TYPE S-I ASPHALT (2")
 AND TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 30 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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MANATEE COUNTY
 PUBLIC WORKS
 COUNTY PROJECT NO:
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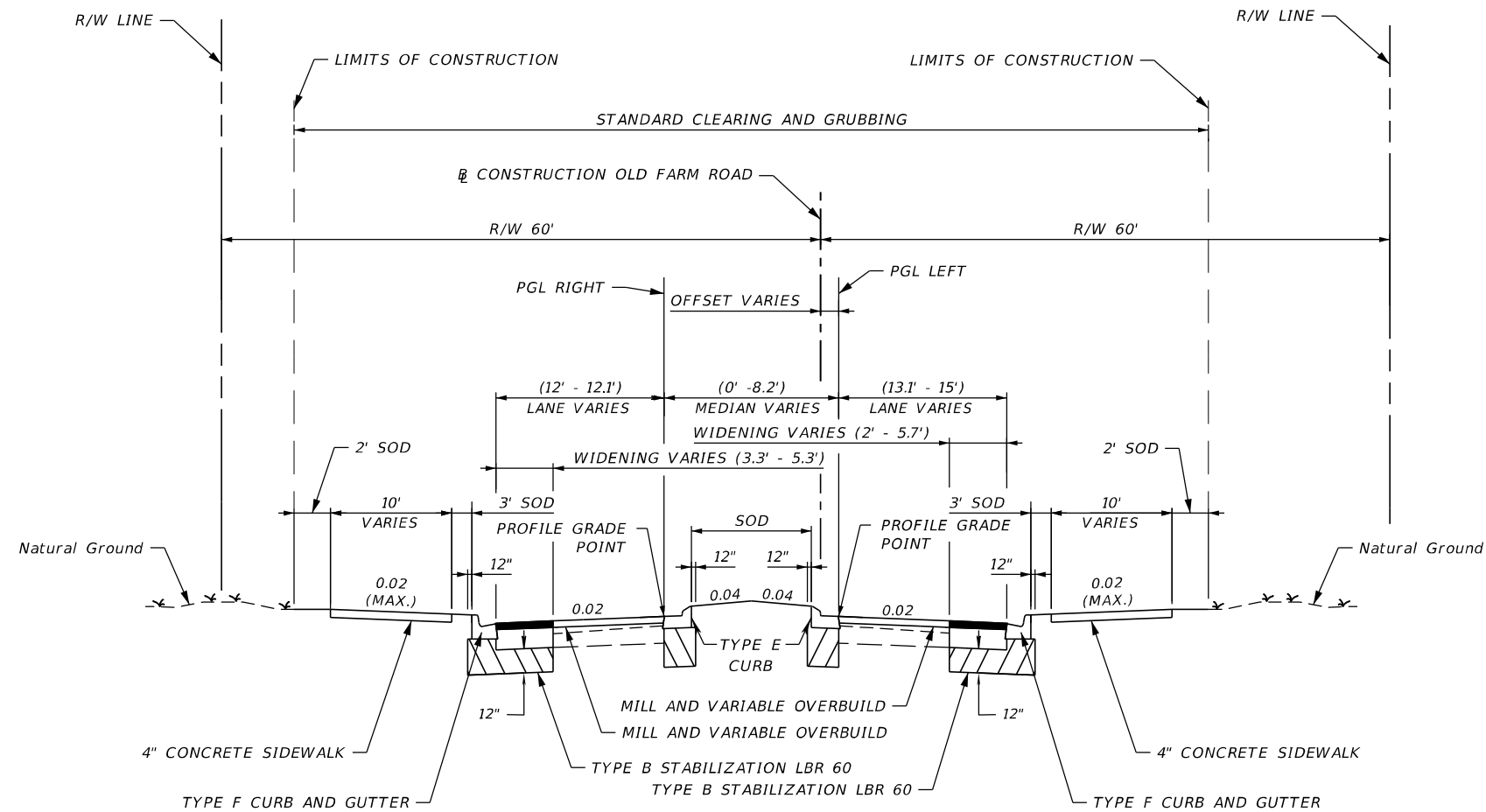
INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (9)

SHEET NO.

18

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**TYPICAL SECTION
 OLD FARM ROAD
 STA. 54+60.00 TO STA. 54+77.35**

WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
 TYPE S-I ASPHALT (2")
 AND TYPE S-III ASPHALT (1") WITH PRIME COAT

MILLING

MILL EXISTING ASPHALT
 PAVEMENT FOR DEPTH (1")

OVERBUILD FOR THICKNESS

TYPE S-I ASPHALT OVERBUILD THICKNESS VARIES ($\frac{3}{8}$ " TO $3\frac{1}{2}$ ")

RESURFACING

TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 30 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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MANATEE COUNTY
 PUBLIC WORKS
 COUNTY PROJECT NO:
 6105060

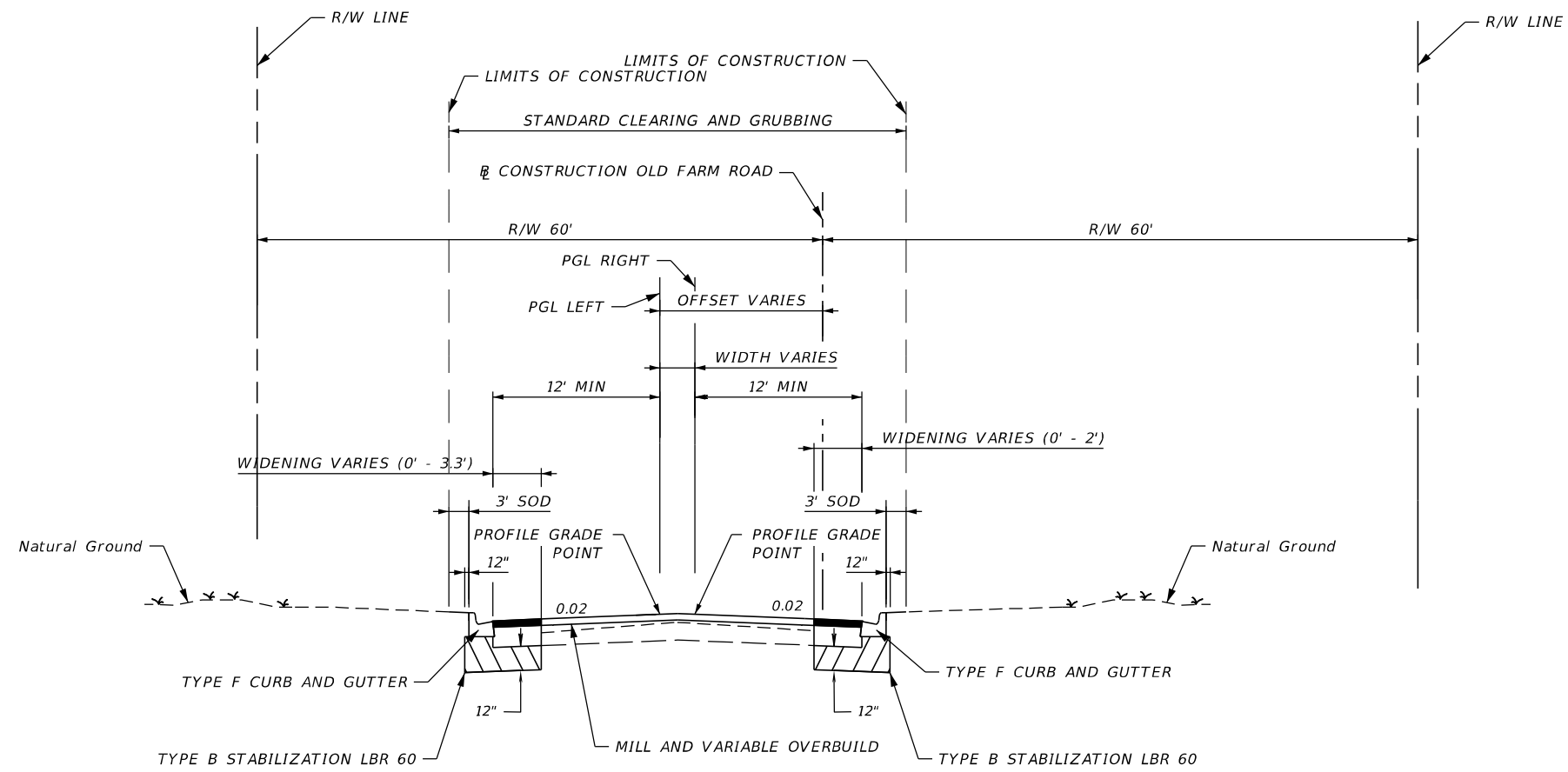
INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

TYPICAL SECTION (10)

SHEET
 NO.

19

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**TYPICAL SECTION
 OLD FARM ROAD
 STA. 54+77.35 TO STA. 55+57.39**

WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) (6") WITH
 TYPE S-I ASPHALT (2")
 AND TYPE S-III ASPHALT (1") WITH PRIME COAT

MILLING

MILL EXISTING ASPHALT
 PAVEMENT FOR DEPTH (1")

OVERBUILD FOR THICKNESS

TYPE S-I ASPHALT OVERBUILD THICKNESS VARIES ($\frac{3}{8}$ " TO $3\frac{1}{2}$ ")

RESURFACING

TYPE S-III ASPHALT (1") WITH PRIME COAT

DESIGN SPEED = 30 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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 P.E. LICENSE NUMBER 73855
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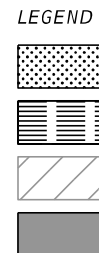
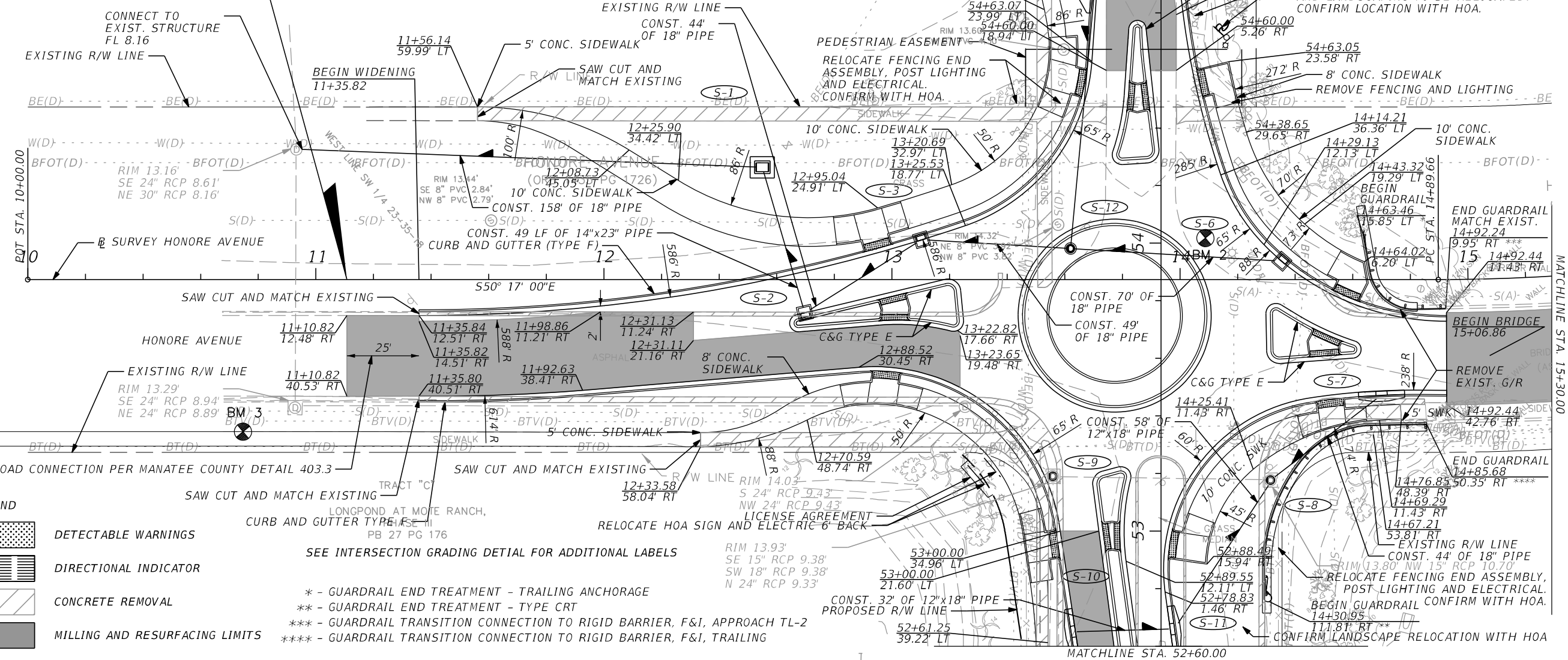
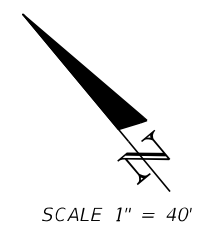
INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD	SHEET NO.
TYPICAL SECTION (11)	20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- S-1**
STA. 12+55.00 (39.00' LT)
CONST. DBI TYPE D
INDEX NO. 425-052
GRATE EL. 13.20
FL 8.35 (RT)
FL 8.35 (BK)
- S-2**
STA. 12+70.00 (12.52' RT)
CONST. CURB INLET TYPE P-9
INDEX NO. 425-024
EOP EL. 14.01
FL 8.40 (AH)
FL 8.40 (LT)
- S-3**
STA. 13+10.00 (14.78' LT)
CONST. CURB INLET TYPE P-9
INDEX NO. 425-024
EOP EL. 14.12
FL 8.45 (AH)
FL 8.45 (BK)
- S-4**
STA. 55+20.00 (20.99' LT)
CONST. CURB INLET TYPE P-5
INDEX NO. 425-021
EOP EL. 12.53
FL 8.70 (RT)
FL 8.70 (BK)

- S-5**
STA. 55+20.00 (6.56' RT)
CONST. CURB INLET TYPE P-5
INDEX NO. 425-021
EOP EL. 12.54
FL 8.75 (LT)
- S-6**
STA. 14+36.00 (7.10' LT)
CONST. CURB INLET TYPE P-9
INDEX NO. 425-024
EOP EL. 14.15
FL 8.65 (BK)
- S-7**
STA. 14+70.00 (40.03' RT)
CONST. CURB INLET TYPE P-6
INDEX NO. 425-021
EOP EL. 13.91
FL 10.65 (BK)
- S-8**
STA. 53+17.63 (38.04' RT)
CONST. PARTIAL MH TYPE 7
INDEX NO. 425-001, 425-010
RIM EL. 13.80
FL 10.60 (RT)
FL 11.30 (BK)
EXIST. FL 10.70 (LT)

- S-9**
STA. 53+19.05 (37.53' RT)
CONST. PARTIAL MH TYPE 8
INDEX NO. 425-001, 425-010
RIM EL. 14.23
EXIST. FL 9.38 (RT)
EXIST. FL 9.38 (BK)
EXIST. FL 9.33 (LT)
- S-10**
STA. 52+65.00 (30.94' LT)
CONST. CURB INLET TYPE P-6
INDEX NO. 425-021
EOP EL. 13.89
FL 11.40 (RT)
BEGIN PROJECT
11+10.82
- S-11**
STA. 52+66.00 (4.47' RT)
CONST. CURB INLET TYPE P-6
INDEX NO. 425-021
EOP EL. 13.88
FL 11.35 (RT)
FL 11.35 (LT)
- S-12**
STA. 13+62.00 (10.80' LT)
CONST. MH TYPE 7 (3.5')
INDEX NO. 425-001, 425-010
RIM EL. 14.99
FL 8.55 (AH)
FL 8.55 (BK)
FL 8.55 (LT)



LEGEND

- DETECTABLE WARNINGS
- DIRECTIONAL INDICATOR
- CONCRETE REMOVAL
- MILLING AND RESURFACING LIMITS

SEE INTERSECTION GRADING DETAIL FOR ADDITIONAL LABELS

- * - GUARDRAIL END TREATMENT - TRAILING ANCHORAGE
- ** - GUARDRAIL END TREATMENT - TYPE CRT
- *** - GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I, APPROACH TL-2
- **** - GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I, TRAILING

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JEREMY F. RUNKLE, P.E.
P.E. LICENSE NUMBER 73855
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505



INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

ROADWAY PLAN (1)

SHEET NO.
21

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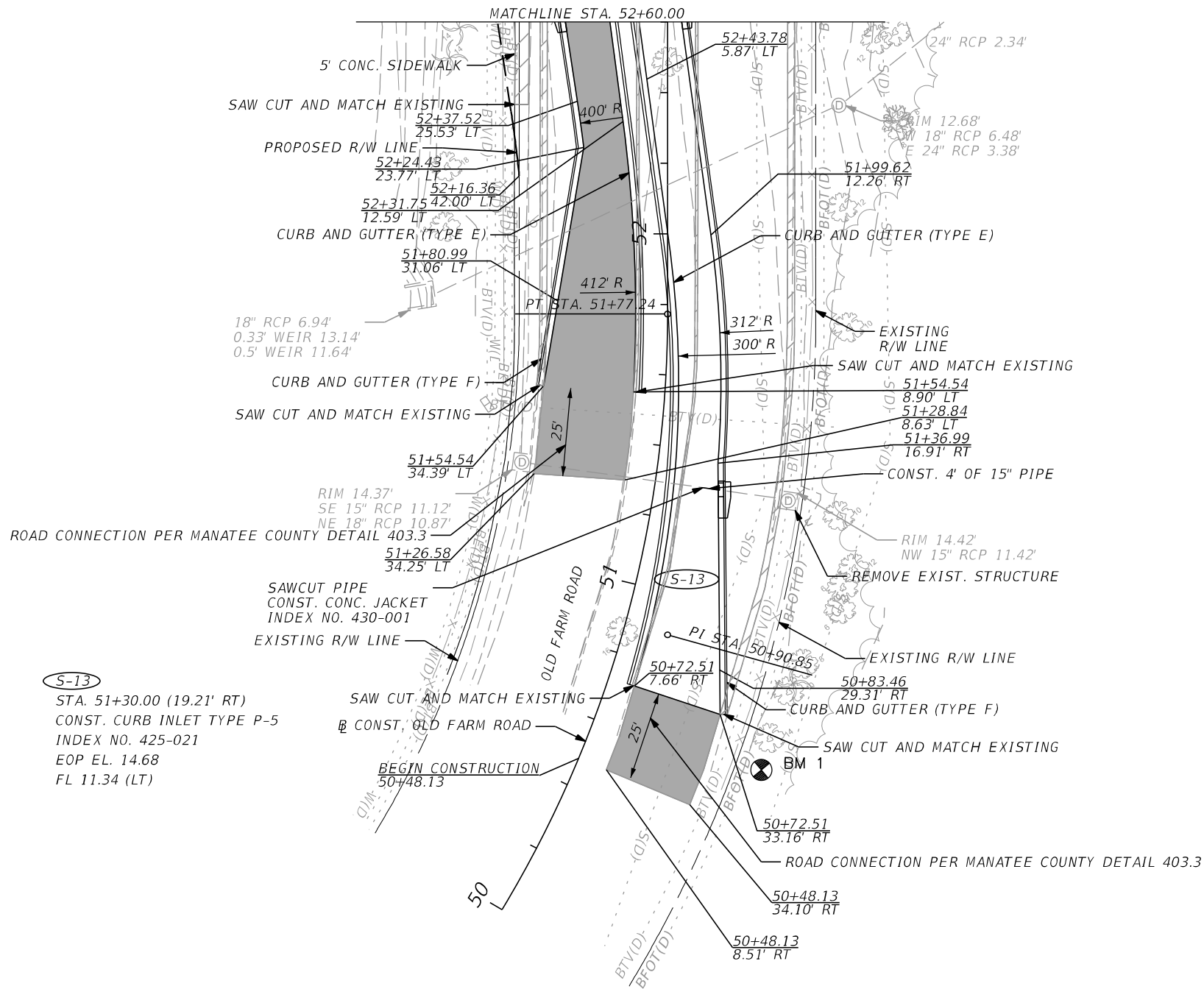
REVISIONS			
NO.	DESCRIPTION	DATE	BY



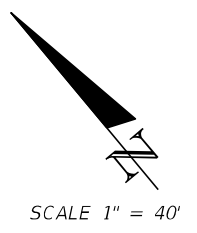
JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505





INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO. 22
ROADWAY PLAN (2)		



CURVE DATA CURV02
 PI STA. = 50+90.85
 Δ = 31° 03' 17" (LT)
 D = 17° 31' 18"
 T = 90.85
 L = 177.24
 R = 327.00
 PC STA. = 50+00.00
 PT STA. = 51+77.24



S-13
 STA. 51+30.00 (19.21' RT)
 CONST. CURB INLET TYPE P-5
 INDEX NO. 425-021
 EOP EL. 14.68
 FL 11.34 (LT)

LEGEND
 CONCRETE REMOVAL
 MILLING AND RESURFACING LIMITS

BENCHMARK DATA:

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM1	1161750.349	473823.640	13.85'	IR (LB 7203)

REVISIONS			
NO.	DESCRIPTION	DATE	BY



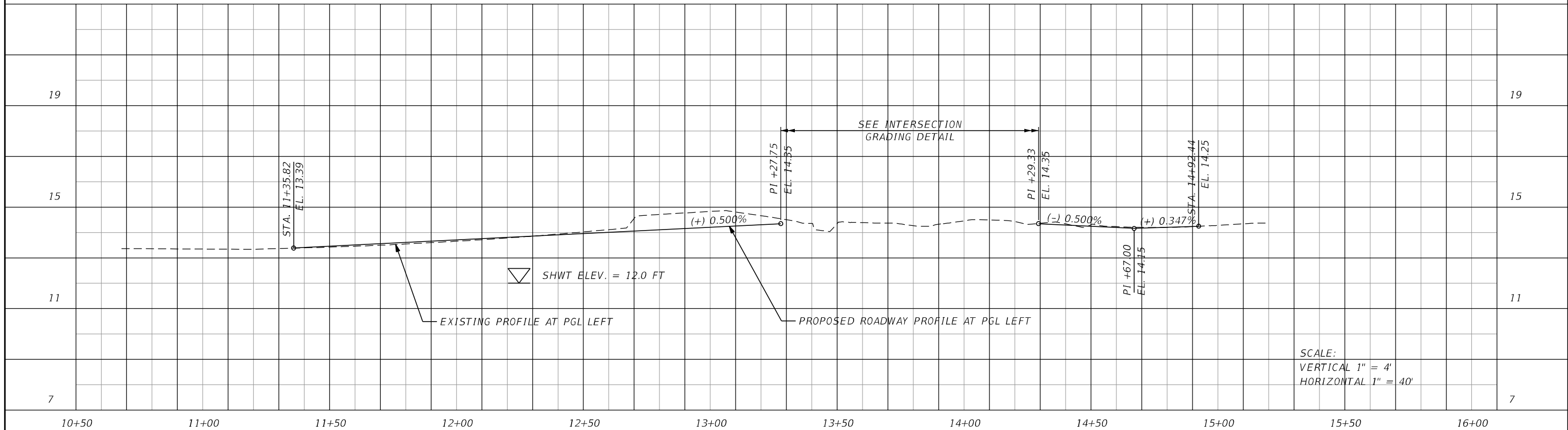
JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



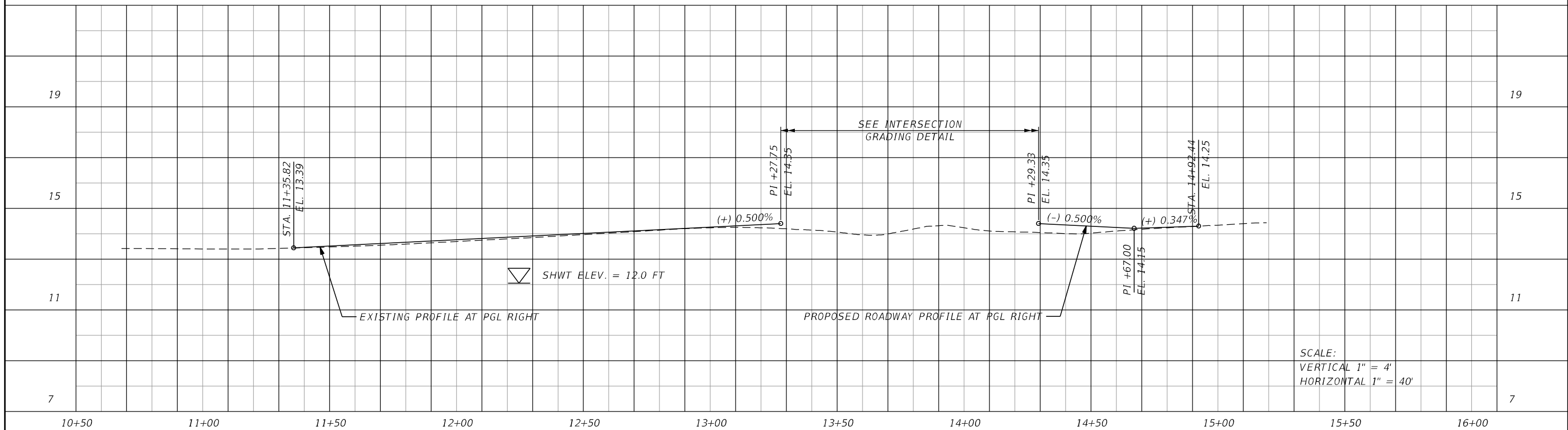
INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD	SHEET NO. 23
ROADWAY PLAN (3)	

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HONORE AVENUE PGL LEFT



HONORE AVENUE PGL RIGHT



REVISIONS			
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 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



MANATEE COUNTY
 PUBLIC WORKS
 COUNTY PROJECT NO:
 6105060

INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

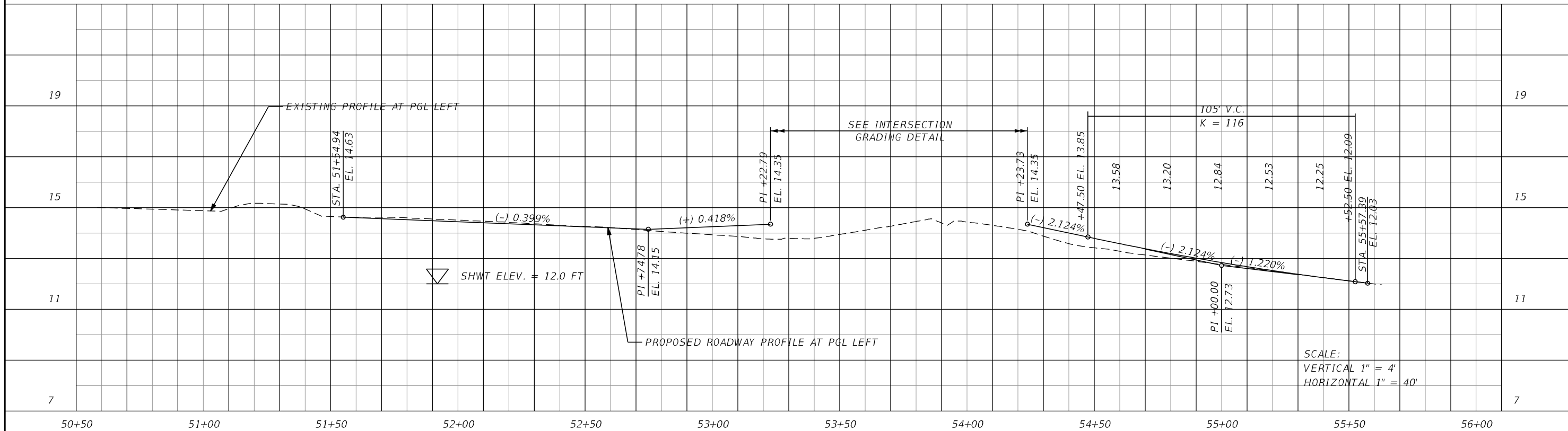
ROADWAY PROFILE (1)

SHEET NO.

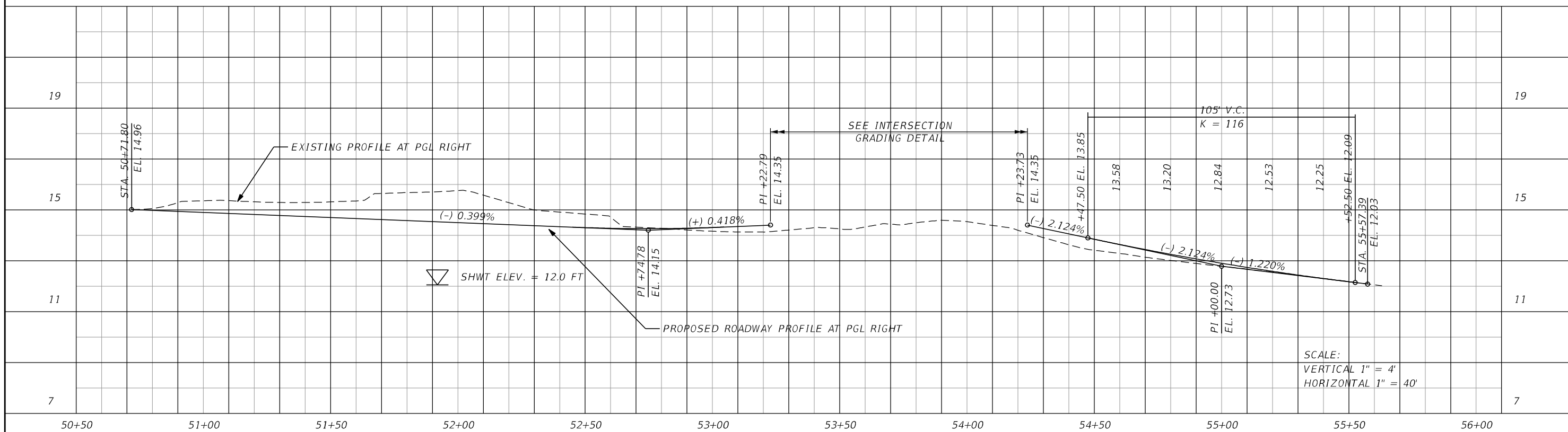
24

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OLD FARM ROAD PGL LEFT



OLD FARM ROAD PGL RIGHT



REVISIONS			
NO.	DESCRIPTION	DATE	BY



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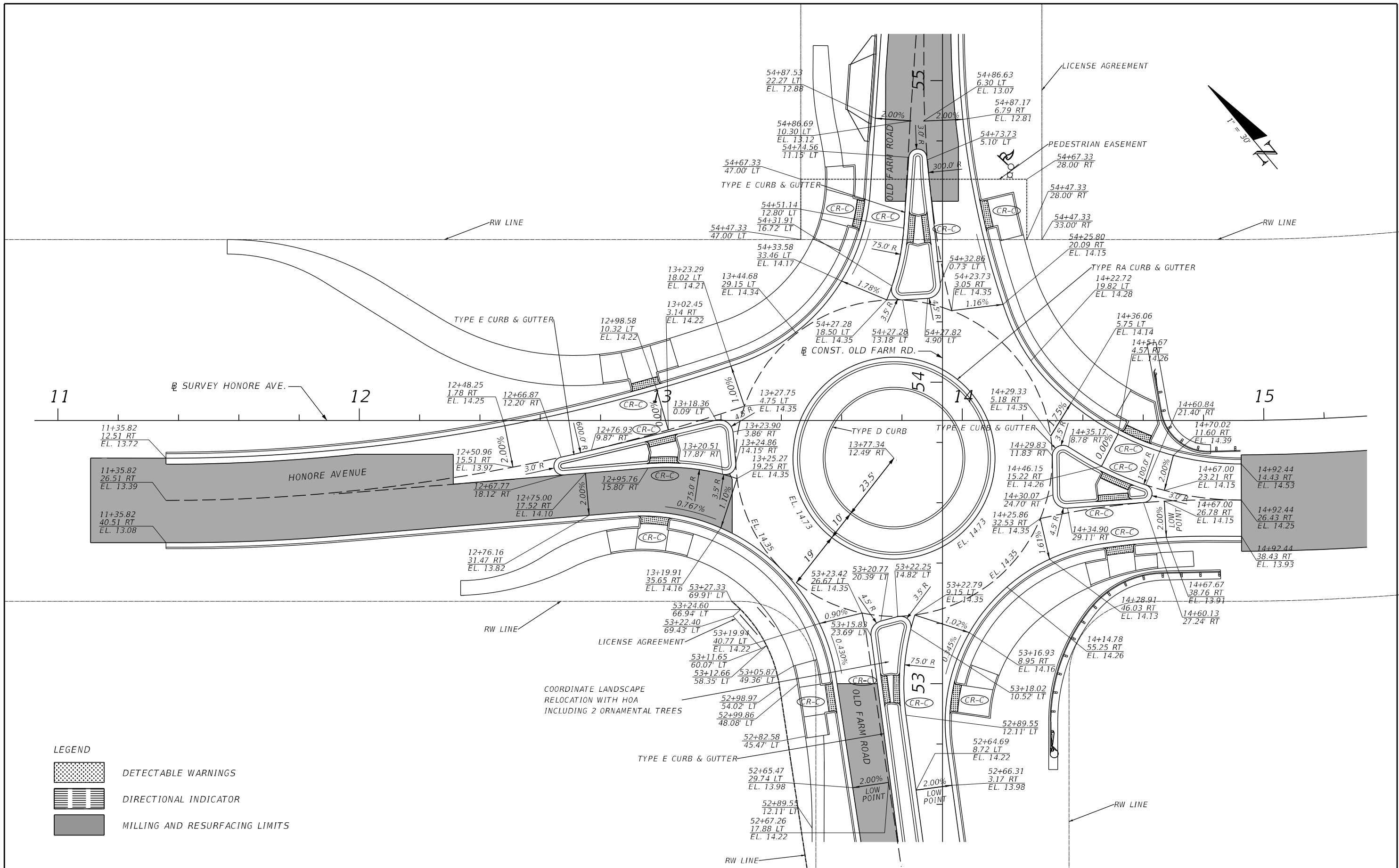


INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

ROADWAY PROFILE (2)

SHEET NO.
 25

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LEGEND

	DETECTABLE WARNINGS
	DIRECTIONAL INDICATOR
	MILLING AND RESURFACING LIMITS

REVISIONS			
NO.	DESCRIPTION	DATE	BY



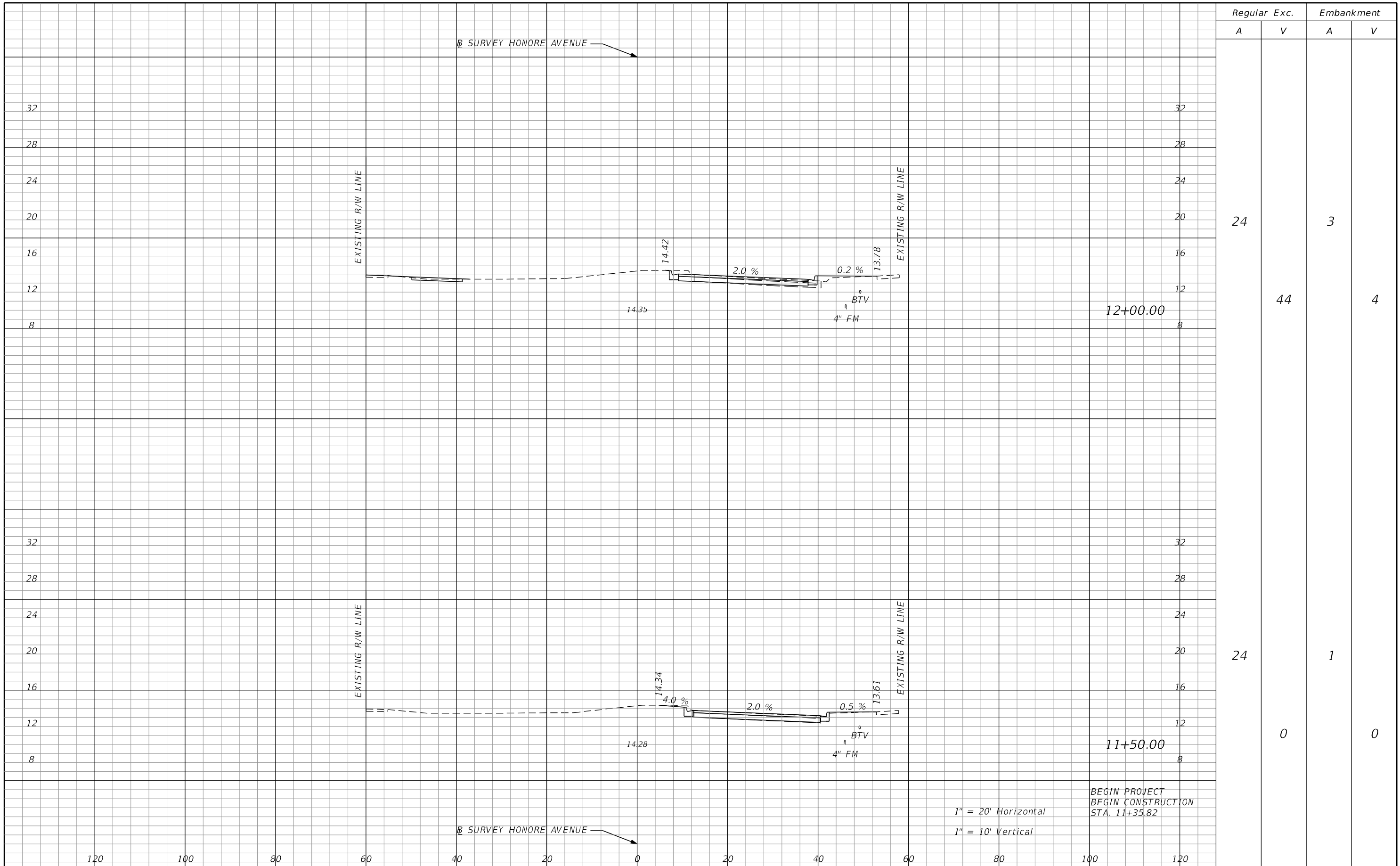
JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
INTERSECTION GRADING
DETAILS

SHEET NO.
 26

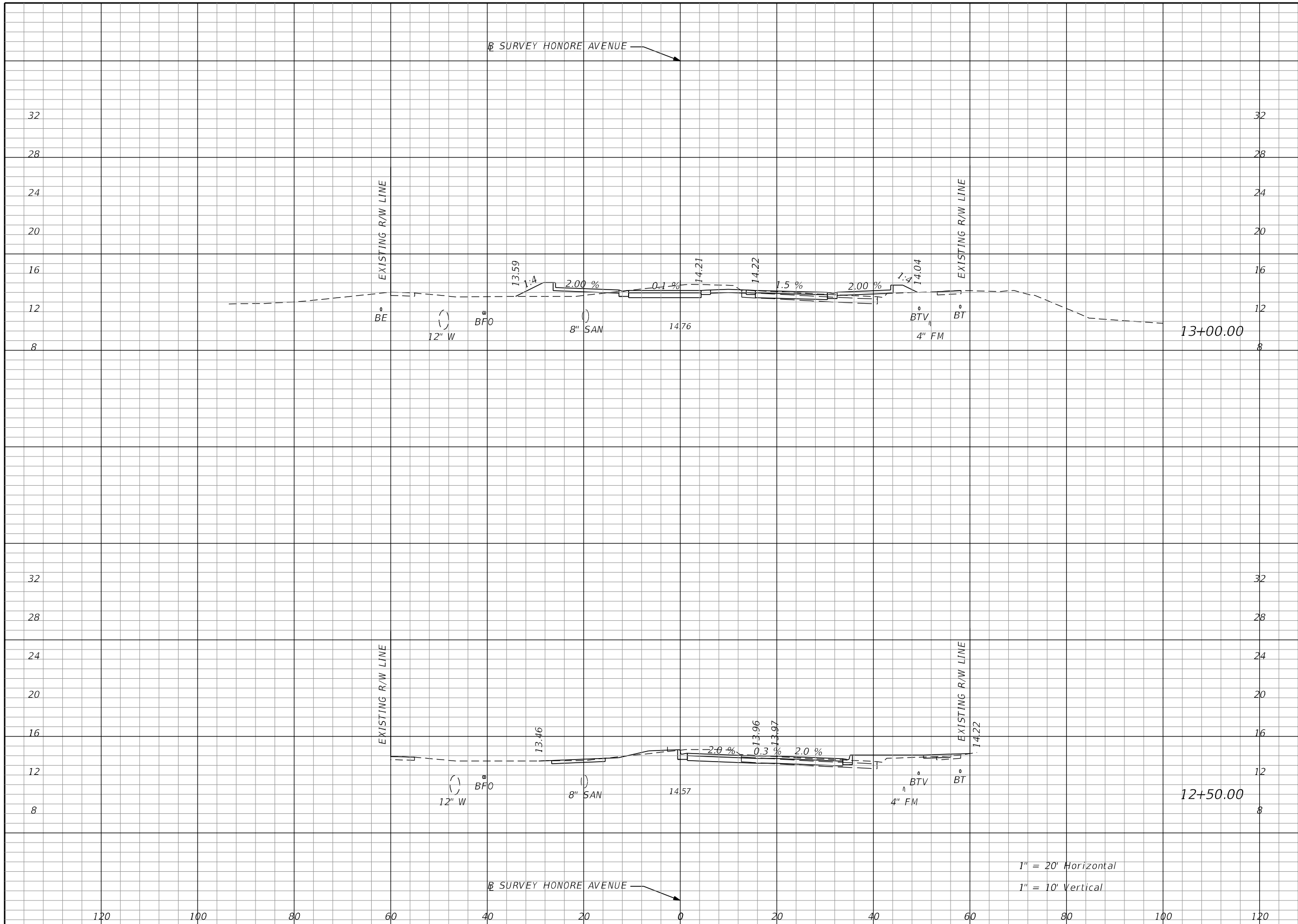
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Regular		Exc.		Embankment	
A	V	A	V	A	V
24				3	
	44				4
24				1	
	0				0

REVISIONS NO. DESCRIPTION DATE BY				SCALE DESIGNED BY DRAWN BY CHECKED BY		COUNTY PROJECT NO: 6105060 EOR: JEREMY F. RUNKLE FL P.E. LICENSE NO: 73855		MANATEE COUNTY PUBLIC WORKS		INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD CROSS SECTIONS (HONORE AVENUE)		SHEET NO. 27
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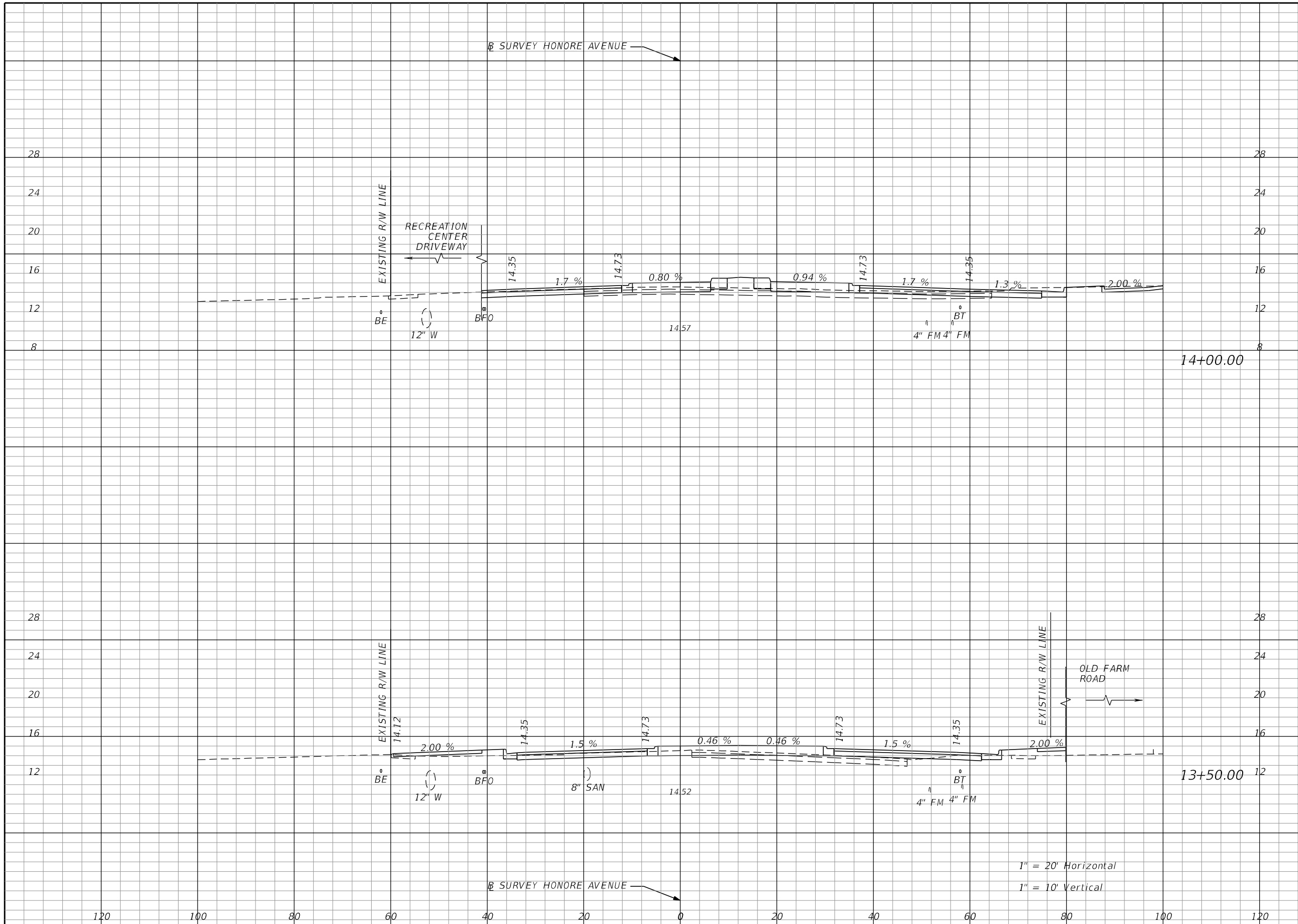


Regular		Exc.		Embankment	
A	V	A	V	A	V
36				16	
	66				22
35				8	
	55				10

1" = 20' Horizontal
1" = 10' Vertical

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				CARDNO, INC. 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA 33759								

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Regular		Exc.		Embankment	
A	V	A	V	A	V
61			89	6	19
		35	66	15	19

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CARDNO, INC.
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA 33759

1" = 20' Horizontal
 1" = 10' Vertical

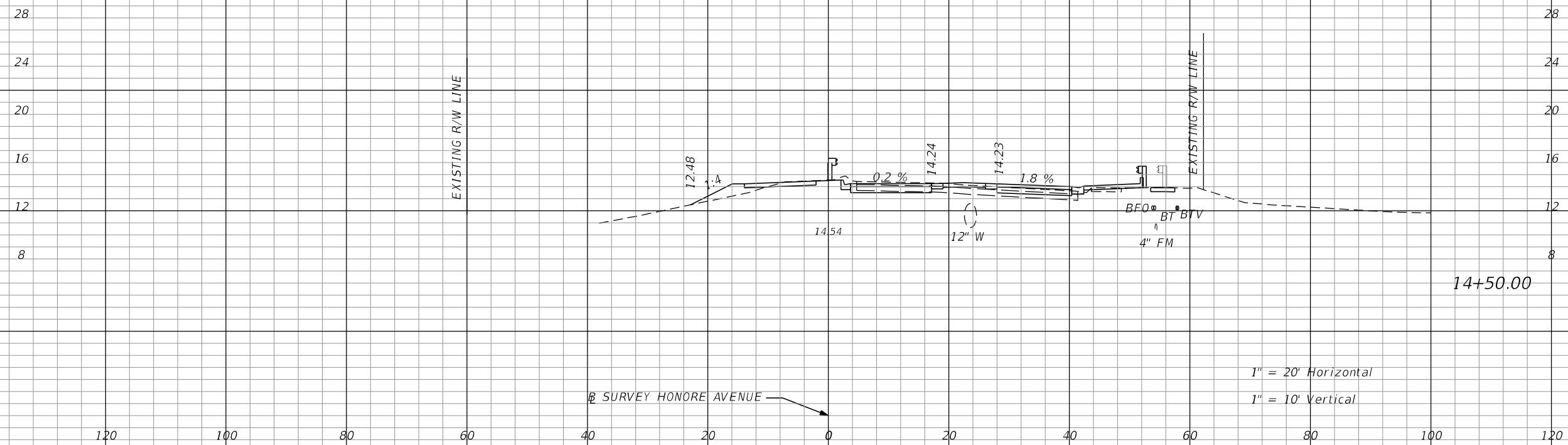
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Regular Exc.		Embankment	
A	V	A	V

B SURVEY HONORE AVENUE


Earthwork Summary	
Excavation	401 CY
Embankment	95 CY

END PROJECT
END CONSTRUCTION
STA. 14+92.44

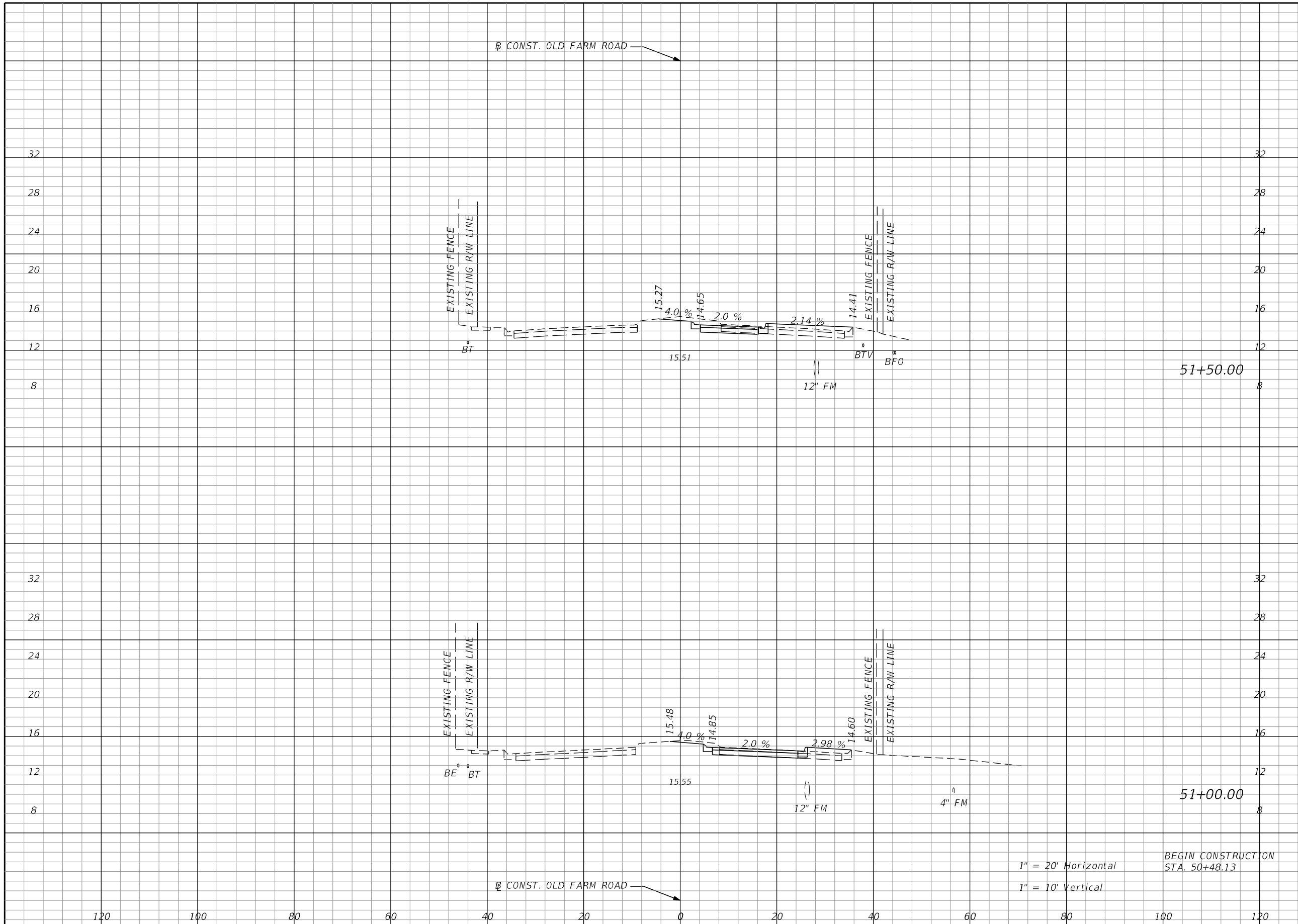


1" = 20' Horizontal
1" = 10' Vertical

27	6	11
81		

REVISIONS				SCALE		COUNTY PROJECT NO: 6105060 EOR: JEREMY F. RUNKLE FL P.E. LICENSE NO: 73855	 MANATEE COUNTY PUBLIC WORKS	INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO.	
NO.	DESCRIPTION	DATE	BY	DESIGNED BY	CHECKED BY			CROSS SECTIONS (HONORE AVENUE)			
											30
CARDNO, INC. 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA 33759				SCALE				INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD			

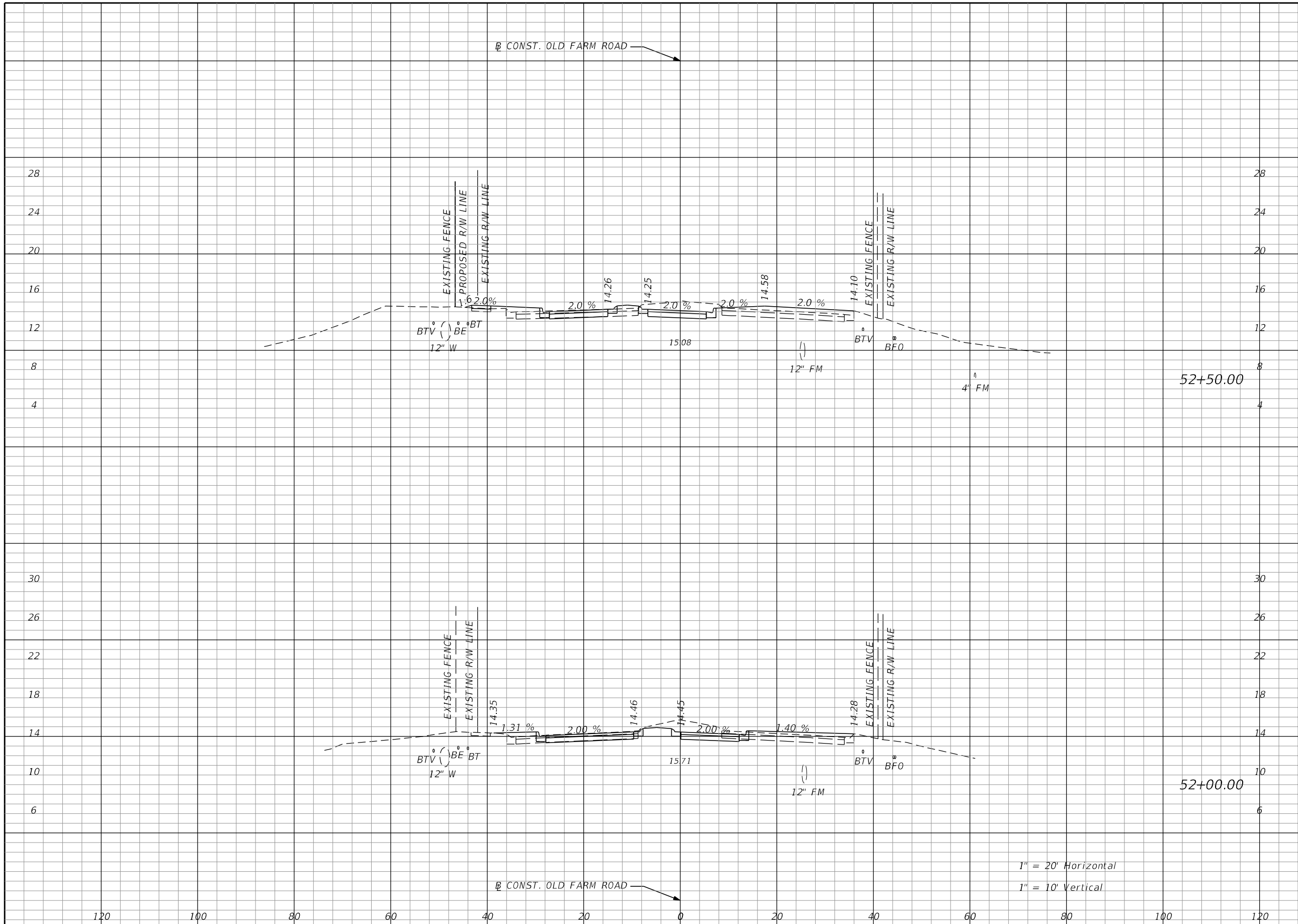
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Regular		Exc.		Embankment	
A	V	A	V	A	V
17				7	
	33				10
19				4	
	0				0

REVISIONS NO. DESCRIPTION DATE BY				SCALE DESIGNED BY DRAWN BY CHECKED BY		COUNTY PROJECT NO: 6105060 EOR: JEREMY F. RUNKLE FL P.E. LICENSE NO: 73855		MANATEE COUNTY PUBLIC WORKS		INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD CROSS SECTIONS (OLD FARM ROAD)		SHEET NO. 31
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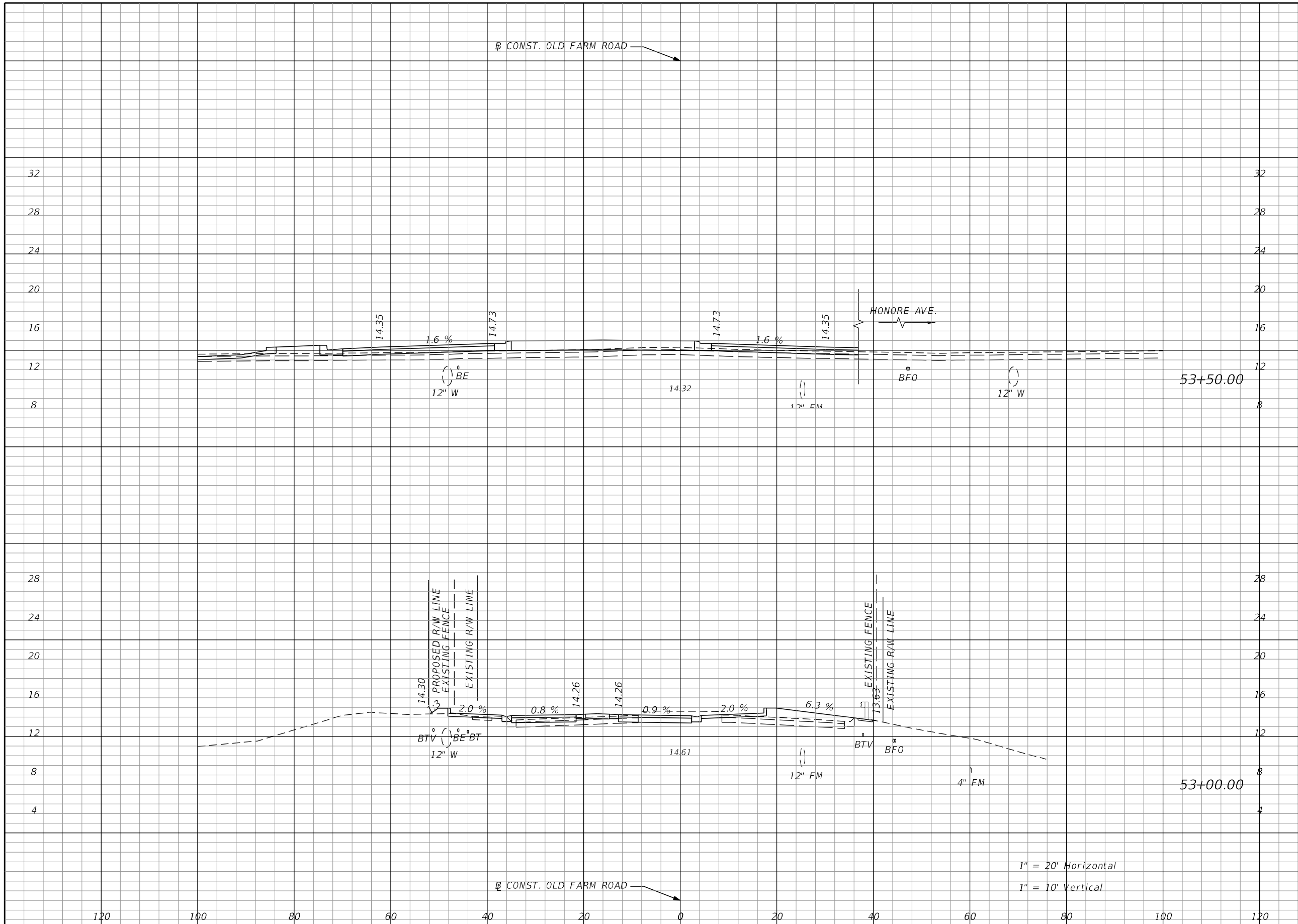


Regular		Exc.		Embankment	
A	V	A	V	A	V
36				9	
	72				17
42				9	
	55				15

1" = 20' Horizontal
1" = 10' Vertical

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				NO.	DESCRIPTION	DATE	BY					<table border="1"> <tr> <td>SCALE</td> <td rowspan="4"> CARDNO, INC. 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA 33759 </td> </tr> <tr> <td>DESIGNED BY</td> </tr> <tr> <td>DRAWN BY</td> </tr> <tr> <td>CHECKED BY</td> </tr> </table>		SCALE	CARDNO, INC. 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA 33759	DESIGNED BY	DRAWN BY	CHECKED BY	<table border="1"> <tr> <td>COUNTY PROJECT NO:</td> <td rowspan="4"> MANATEE COUNTY PUBLIC WORKS </td> </tr> <tr> <td>EOR:</td> </tr> <tr> <td>JEREMY F. RUNKLE</td> </tr> <tr> <td>FL P.E. LICENSE NO:</td> </tr> </table>		COUNTY PROJECT NO:	MANATEE COUNTY PUBLIC WORKS	EOR:	JEREMY F. RUNKLE	FL P.E. LICENSE NO:	<table border="1"> <tr> <td colspan="2"> INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD </td> <td rowspan="2"> SHEET NO. 32 </td> </tr> <tr> <td colspan="2" style="text-align: center;"> CROSS SECTIONS (OLD FARM ROAD) </td> </tr> </table>		INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO. 32	CROSS SECTIONS (OLD FARM ROAD)	
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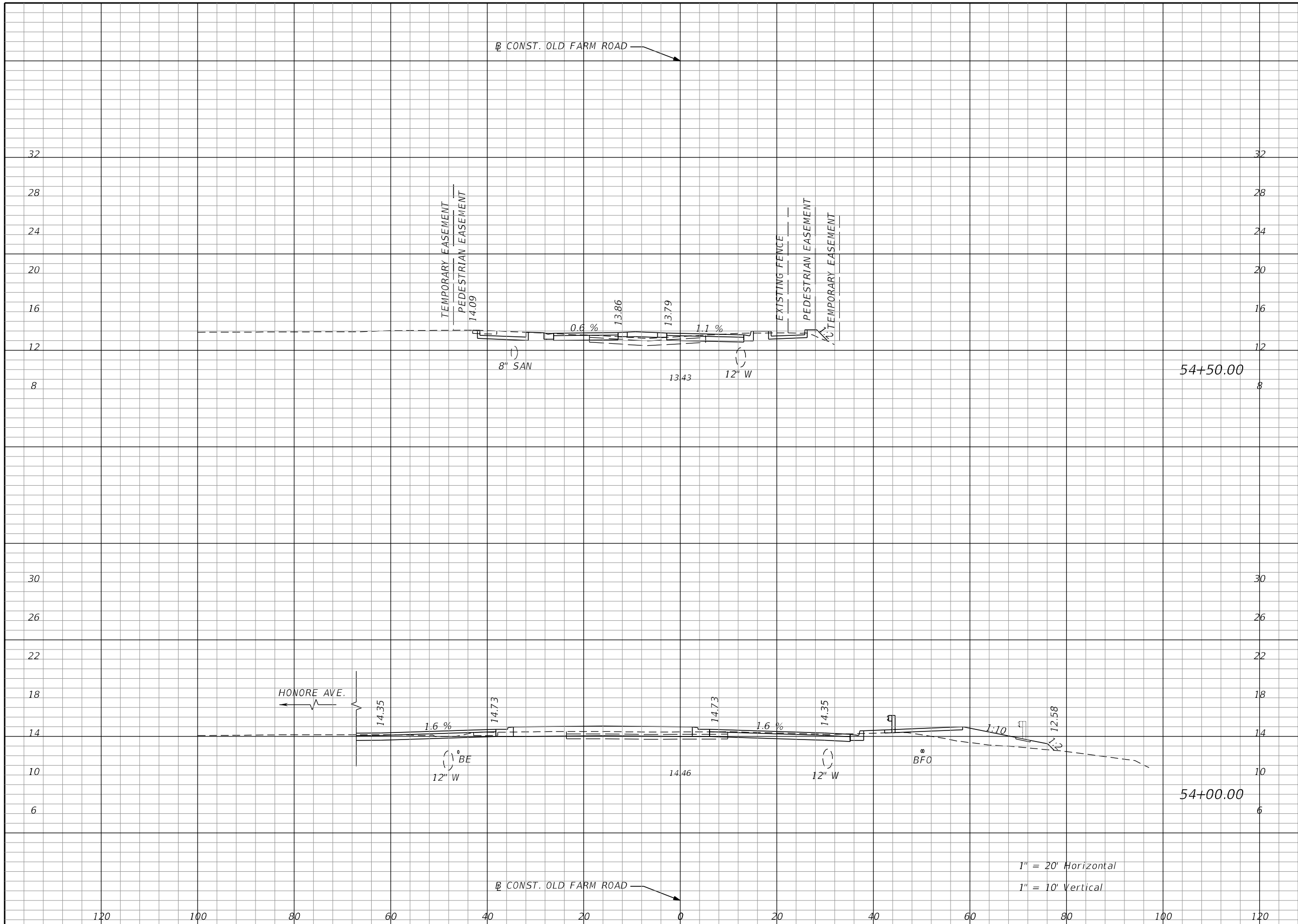


Regular		Exc.		Embankment	
A	V	A	V	A	V
23			50	7	20
31			62	15	22

1" = 20' Horizontal
1" = 10' Vertical

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				NO.	DESCRIPTION	DATE	BY					<table border="1"> <tr> <td>SCALE</td> <td rowspan="4"> CARDNO, INC. 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA 33759 </td> </tr> <tr> <td>DESIGNED BY</td> </tr> <tr> <td>DRAWN BY</td> </tr> <tr> <td>CHECKED BY</td> </tr> </table>		SCALE	CARDNO, INC. 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA 33759	DESIGNED BY	DRAWN BY	CHECKED BY	<table border="1"> <tr> <td>COUNTY PROJECT NO:</td> <td rowspan="4"> MANATEE COUNTY PUBLIC WORKS </td> </tr> <tr> <td>EOR:</td> </tr> <tr> <td>JEREMY F. RUNKLE</td> </tr> <tr> <td>FL P.E. LICENSE NO:</td> </tr> </table>		COUNTY PROJECT NO:	MANATEE COUNTY PUBLIC WORKS	EOR:	JEREMY F. RUNKLE	FL P.E. LICENSE NO:	<table border="1"> <tr> <td colspan="2"> INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD </td> <td rowspan="2"> SHEET NO. 33 </td> </tr> <tr> <td colspan="2" style="text-align: center;"> CROSS SECTIONS (OLD FARM ROAD) </td> </tr> </table>		INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO. 33	CROSS SECTIONS (OLD FARM ROAD)	
REVISIONS																																				
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54+50.00

54+00.00

1" = 20' Horizontal
1" = 10' Vertical

Regular		Exc.		Embankment	
A	V	A	V	A	V
34				5	
	80				20
52				17	
	69				22

REVISIONS				SCALE	
NO.	DESCRIPTION	DATE	BY	DESIGNED BY	CHECKED BY

CARDNO, INC.
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA 33759

COUNTY PROJECT NO:
6105060

EOR:
JEREMY F. RUNKLE
FL P.E. LICENSE NO:
73855



INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

CROSS SECTIONS
(OLD FARM ROAD)

SHEET NO.
34

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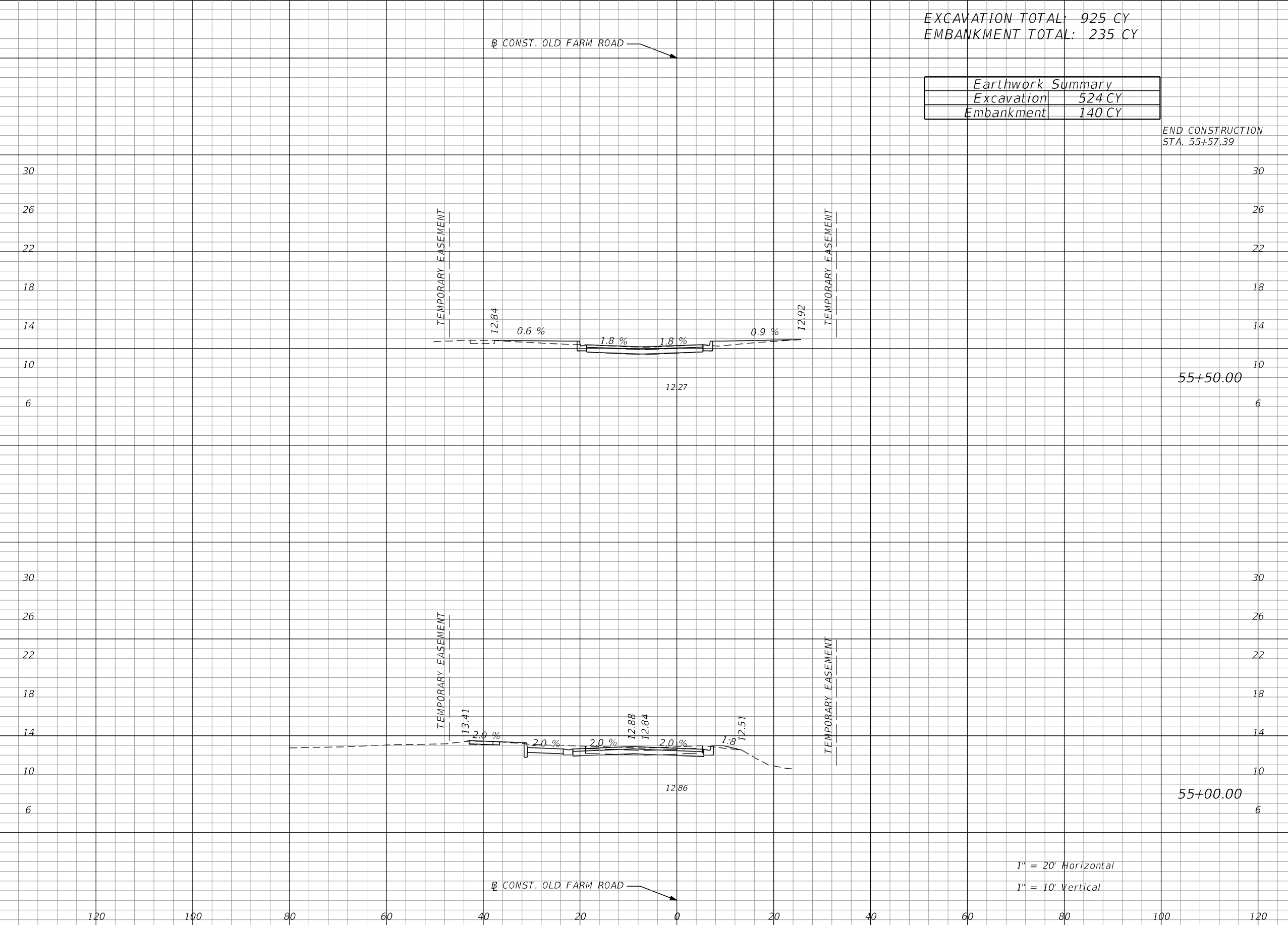
EXCAVATION TOTAL: 925 CY
 EMBANKMENT TOTAL: 235 CY

Earthwork Summary	
Excavation	524 CY
Embankment	140 CY

END CONSTRUCTION
 STA. 55+57.39

Regular Exc. Embankment

A V A V



20 8

45 8

29 1

58 6

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

CARDNO, INC.
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA 33759

COUNTY PROJECT NO:
 6105060
 EOR:
 JEREMY F. RUNKLE
 FL P.E. LICENSE NO:
 73855



MANATEE COUNTY
 PUBLIC WORKS

INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

CROSS SECTIONS
 (OLD FARM ROAD)

SHEET
 NO.

35

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1. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY
 THIS PROJECT CONSISTS OF THE DESIGN OF INTERSECTION IMPROVEMENTS (WITH DRAINAGE MODIFICATIONS) AND A NEW ROUNDABOUT AT HONORE AVENUE AND OLD FARM ROAD. HONORE AVENUE IS CURRENTLY A TWO-LANE UNDIVIDED ROADWAY WITH CURB AND GUTTER AND SIDEWALK ON THE SOUTH SIDE OF THE ROAD. OLD FARM ROAD IS PRIMARILY A TWO-LANE DIVIDED ROADWAY WITH CURB AND GUTTER AND SIDEWALK ALONG THE WEST SIDE OF THE ROAD. DUE TO THE CONTINUING EXPECTED GROWTH IN THIS AREA AND OPERATIONAL INEFFICIENCY, THE INTERSECTION OF HONORE AVENUE AND OLD FARM ROAD IS IN NEED OF CONSTRUCTION OF A NEW ROUNDABOUT WHICH WILL IMPROVE THE OVERALL OPERATIONS AND SAFETY OF THE VEHICLES, PEDESTRIANS, AND BICYCLISTS.

(2) INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
 (A) IN THE CONTRACTOR'S SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
 (B) MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.
 (C) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL) LATEST EDITION.
 (D) DETERMINE IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.

(3) LIST OF INTENDED ACTIVITIES
 (A) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
 (B) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
 (C) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
 (D) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
 (E) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.
 (F) PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.

(4) PROJECT AREAS:
 THE ESTIMATED TOTAL PROJECT AREA IS 1.1 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 1.1 ACRES.

(5) RUNOFF COEFFICIENTS
 BEFORE C_w (B), DURING C_w (D) AND AFTER C_w (A) CONSTRUCTION:

 RUNOFF COEFFICIENT FOR:
 GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35
 IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
 DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

 WEIGHTED RUNOFF COEFFICIENT:
 BEFORE: C_w(B) = 0.35
 DURING: C_w(D) = 0.35 TO 0.55
 AFTER: C_w(A) = 0.55

THE RUNOFF COEFFICIENT DURING CONSTRUCTION, C_w (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

 THE SOIL WITHIN HONORE AVENUE AND OLD FARM ROAD. A ROADWAY SOIL SURVEY IS CONTAINED IN THE CONSTRUCTION PLANS.

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
11-CASSIA FINE SAND (31%)	A	3.0'
16-DELRAY COMPLEX (5%)	A/D	0.5'
20-EAUGALLIE FINE SAND (6%)	A/D	2.5'
24-FELDA-WABASSO (7%)	A/D	1.0'
26-FLORIDANA-IMMOKALEE (1%)	C/D	0.0'
48-WABASSO FINE SAND (3%)	B/D	2.5'

REFERENCE: USDA SOIL SURVEY OF HILLSBOROUGH COUNTY FLORIDA

(7) RECEIVING WATERS:
 BRADEN RIVER
 CEDAR CREEK
 THESE FACILITIES DISCHARGE TO WATERS LISTED ON THE EPA APPROVED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO TOAL SUSPENDED SOLID, TURBIDITY, NUTRIENTS, DISSOLVED OXYGEN OR FECAL COLIFORM.
 (FOR LIST, GO TO:
[HTTP://WWW.DEP.STATE.FL.US/WATER/WATERSHEDS/ASSESSMENTS/A-LIST.HTM](http://www.dep.state.fl.us/water/watersheds/assessments/a-list.htm)
 FOR IMPAIRMENT DUE TO TOTAL SUSPENDED SOLIDS.

(8) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

RECEIVING WATER BODY	LATITUDE	LONGITUDE
(A) BRADEN RIVER	N27° 25' 9"	W82° 28' 48"

(9) WETLAND AND/OR SURFACE WATER IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(10) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)
 (A) STORMWATER FACILITY #1:
 LOCATION: LATITUDE: N27° 25' 13" LONGITUDE: W82° 28' 50"
 EST. DRAINAGE AREA SIZE: 9.73 AC
 RECEIVING WATER BODY: BRADEN RIVER

11. CONTROLS:
 SEDIMENT AND EROSION CONTROLS

(1) WATER QUALITY MONITORING:
 (A) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.
 (B) MONITOR ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
 (C) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIROMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
 (D) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

(2) STABILIZATION PRACTICES:
 (A) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROL PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL), LATEST EDITION.

REVISIONS				 STANTEC CONSULTING SERVICES INC.	HAMID R. FARAJI, P.E. P.E. LICENSE NUMBER 51581 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727) 531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6105060	INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD	SHEET NO. 36
NO.	DESCRIPTION	DATE	BY				STORMWATER POLLUTION PREVENTION PLAN (1)	

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- (B) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
- (C) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(A) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)

PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.

- (1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.
- (2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.
- (3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.

(B) RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN)

PURPOSE: TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.

- (1) USED ON FILL SLOPES AND CUT SLOPES TO REDUCE SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK DAMS.
- (2) RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A SEDIMENT BASIN.

(C) SEDIMENT BASIN (CONTAINMENT SYSTEM)

PURPOSE: A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETTLEMENT OF SUSPENDED SOLIDS AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.

- (1) SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLE WILL DICTATE WHETHER THE SEDIMENT BASIN WILL BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.
- (2) THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS. THIS TECHNIQUE REQUIRES PERIODICALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.

(D) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

- (1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.

- (2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
- (3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(E) FLOATING TURBIDITY BARRIER

PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

- (1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
- (2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (<3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
- (3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION
- (4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.
- (5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
- (6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS GREATER THAN 5.0'.

(F) STAKED TURBIDITY BARRIER

PURPOSE: THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.

- (1) COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLODGE COLLECTED SEDIMENTS.
- (2) MAXIMUM DEPTH OF PANEL IS 3'-8".
- (3) POST MUST BE A MINIMUM LENGTH OF 5.0' AND A MINIMUM OF 10" OF FABRIC MUST BE EMBEDDED IN THE GROUND.

(G) INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

- (1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.
- (2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.
- (3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

(H) SOIL TRACKING PREVENTION DEVICE

PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.

- (1) USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.
- (2) USE ADDITIONAL DEVICES FOR CONSTRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.
- (3) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.
- (4) PROVIDING SOIL TRACKING PREVENTION DEVICES AT ALL INGRESS/EGRESS LOCATIONS.

(4) CHEMICAL TREATMENTS FOR EROSION AND SEDIMENT CONTROL

(A) CHEMICAL TREATMENT - POLYACRYLAMIDES (PAM AND PAM BLENDS)



PURPOSE: REDUCE SOIL EROSION THROUGH SOIL BINDING, USED AS A WATER TREATMENT ADDITIVE TO REMOVE SUSPENDED SOLIDS FROM RUNOFF, PROVIDES APPROPRIATE MEDIUM FOR GROWTH OF VEGETATION FOR STABILIZATION AND INCREASES INFILTRATION BY INCREASING SIZE OF SOIL PARTICLE.

- (1) AS AN ADDITIONAL EROSION CONTROL MEASURE, CHEMICAL ADHESIVE STABILIZER (POLYACRYLAMIDE) CAN BE USED WHERE SOIL RUNOFF WILL DRAIN TO WETLANDS OR SURFACE WATERS. SUCH USAGE SHALL BE LIMITED TO AREAS WHERE VEHICLE TRAFFIC AND OTHER DISTURBANCES WILL NOT OCCUR FOR MORE THAN 7 DAYS. POLYACRYLAMIDE CAN BE APPLIED TO EXPOSED SOILS PRIOR TO PLACEMENT OF ARTIFICIAL COVERINGS AND ROLLED EROSION CONTROL PRODUCTS. POLYACRYLAMIDE SHALL BE USED TO STABILIZE SOIL STOCKPILES WHEN THE STOCKPILE WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS. POLYACRYLAMIDE SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- (2) CAN BE USED ON DISTURBED SOILS. CAN BE USED IN CONJUNCTION WITH OTHER BMP'S TO ENHANCE PERFORMANCE. CAN BE APPLIED IN DISSOLVED FORM WITH WATER, CAN BE USED AS A DRY POWDER, CAN BE USED IN GRANULAR FORM OR MAY BE USED IN THE FORM OF FLOC LOGS.
- (3) HIGHER CONCENTRATIONS OF PAM'S DO NOT INCREASE THE EFFECTIVENESS OF THE PRODUCT.
- (4) ACTIVELY WORKED AREAS WILL REQUIRE REAPPLICATION TO REMAIN EFFECTIVE.
- (5) PAM SHOULD NOT BE USED WHERE THERE IS A POTENTIAL FOR EQUIPMENT CLOGGING OR TOXICITY IS A CONCERN.

(5) DEWATERING OPERATIONS (OPTIONAL - BASED ON PROJECT APPLICABILITY)

DESCRIPTION: DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF TURBID WATER WHEN WATERS OTHER THAN STORMWATER AND ACCUMULATED SURFACE WATERS MUST BE REMOVED FROM A LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. THESE WATERS CAN INCLUDE GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS AND WATERS USED DURING CONSTRUCTION THAT MUST BE REMOVED FROM A WORK AREA.

- (A) ENVIRONMENTAL AGENCIES ARE ESPECIALLY CONCERNED WITH THE PROTECTION OF WETLANDS FROM DRAWDOWN EFFECTS, PROTECTING RECEIVING BODIES FROM SEDIMENTATION AND POSSIBLE CAPACITY LIMITATIONS.
- (B) THREE PRIMARY METHODS OF DEWATERING COMMONLY USED IN FLORIDA ARE RIM-DITCHING, SOCK/PIPE/HORIZONTAL WELLS AND WELL-POINT SYSTEMS.
- (C) METHODS FOR CONTAINING SEDIMENTATION CAN INCLUDE A COMBINATION OF BMP'S AND SEDIMENT TRAPS, SEDIMENT BASINS, GRAVITY BAG FILTERS, WEIR TANKS, DEWATERING TANKS, SAND MEDIA/PRESSURIZED BAGS AND CHEMICAL TREATMENTS.

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NO.	DESCRIPTION	DATE	BY				STORMWATER POLLUTION PREVENTION PLAN (2)		

(6) OFFSITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

- (A) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.
- (B) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.
- (C) USING WATER TRUCKS DURING DUST GENERATING ACTIVITIES.

(7) NON-STORMWATER (INCLUDING SPILL REPORTING)

PROVIDE THE FDOT WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE ENGINEER.

III. MAINTENANCE:

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.



- (1) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (2) SOIL TRACKING PREVENTION DEVICES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

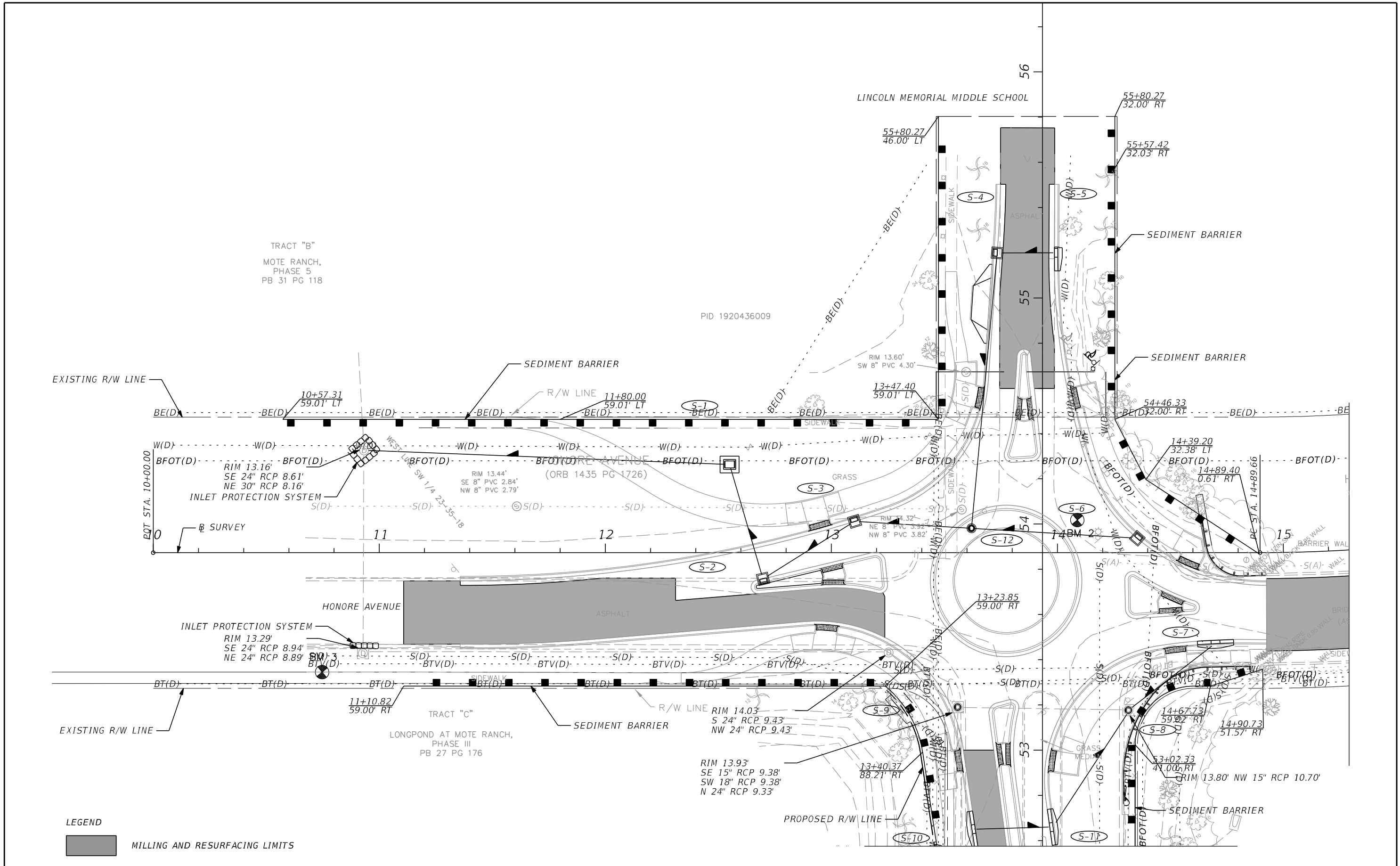
IV. INSPECTION:

- (1) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

V. TRACKING AND REPORTING:

- (1) SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES OR LUMP SUM COST OF THE PROJECT.
- (3) USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

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NO.	DESCRIPTION	DATE	BY				STORMWATER POLLUTION PREVENTION PLAN (3)		38



LEGEND
 [Shaded Box] MILLING AND RESURFACING LIMITS

REVISIONS			
NO.	DESCRIPTION	DATE	BY



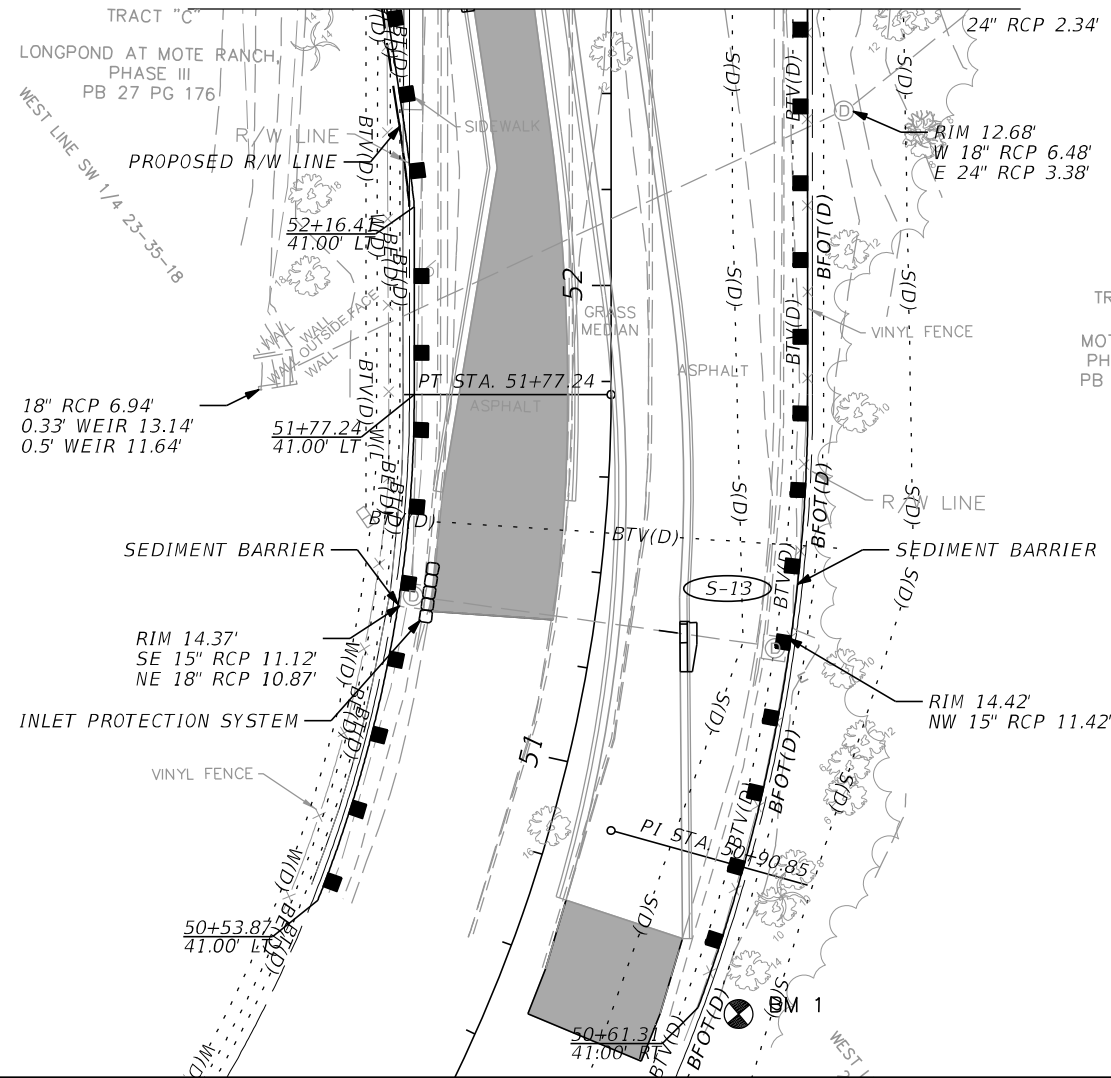
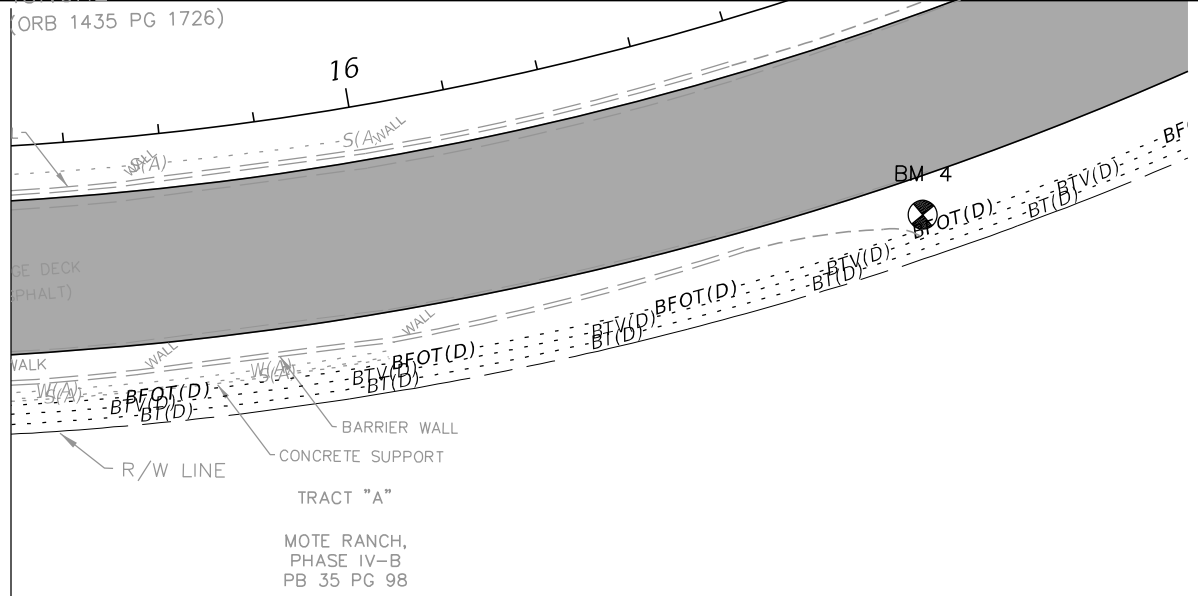
HAMID R. FARAJI, P.E.
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 380 PARK PLACE BOULEVARD
 SUITE 300
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 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
EROSION CONTROL PLAN (1)

SHEET NO.
39

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CURVE DATA CURV02
 PI STA. = 50+90.85
 Δ = 31° 03' 17" (LT)
 D = 17' 31' 18"
 T = 90.85
 L = 177.24
 R = 327.00
 PC STA. = 50+00.00
 PT STA. = 51+77.24

LEGEND
 MILLING AND RESURFACING LIMITS

REVISIONS			
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INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
EROSION CONTROL PLAN (2)

SHEET NO.
40

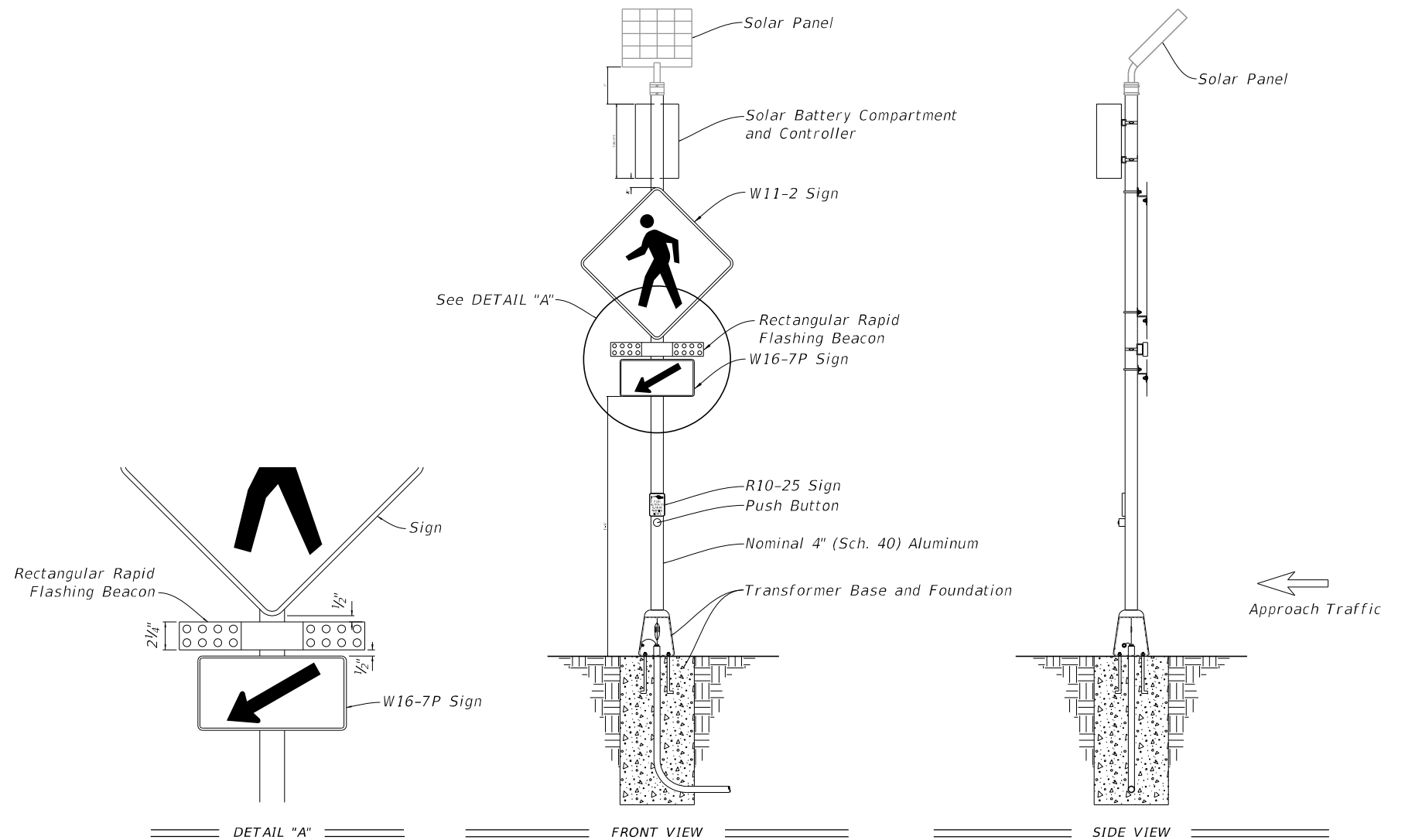
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SIGNING AND PAVEMENT MARKING NOTES:

1. SIGNS SHALL BE PLACED BASED ON FDOT STANDARD PLANS INDEX NO. 700-101, UNLESS OTHERWISE NOTED ON PLANS. ALL SIGNS MOUNTED OVER SIDEWALKS SHALL HAVE A VERTICAL CLEARANCE OF EIGHT FEET (8') STANDARD.
2. UNLESS OTHERWISE NOTED ON PLAN SHEETS, ALL CROSSWALKS SHALL BE TEN FEET (10') IN WIDTH. MEASUREMENTS SHALL BE FROM INSIDE TO INSIDE OF 12" STRIPES.
3. ALL PAVEMENT MARKINGS AND CROSSWALK MARKINGS ARE TO CONFORM TO FDOT STANDARD PLANS INDEX NO. 711-001 AND 711-002 UNLESS OTHERWISE SHOWN ON PLANS.
4. REFER TO FDOT STANDARD PLANS INDEX NO. 706-001 FOR PLACEMENT, TYPE AND SPACING OF ALL REFLECTIVE PAVEMENT MARKERS (RPM'S) UNLESS OTHERWISE SHOWN ON PLANS.
5. FINAL ASPHALT COURSE SHALL HAVE TEMPORARY PAVEMENT MARKINGS FOR 14 DAYS PRIOR TO INSTALLATION OF FINAL (PERMANENT) THERMOPLASTIC MARKINGS.
6. ALL THE TEMPORARY PAVEMENT MARKINGS NOT FULLY COVERED BY THE PERMANENT PAVEMENT SHALL BE REMOVED PRIOR TO INSTALLING FINAL (PERMANENT) THERMOPLASTIC MARKINGS.
7. PAY ITEM 700-1-11: ALL SIGN POSTS SHALL BE SELECTED USING THE PROCESS DESCRIBED IN FDOT STANDARD PLANS INDEX NO. 700-010. ALL SIGN REFLECTIVE SHEETING SHALL BE TYPE II DIAMOND GRADE.
8. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MUTCD, FDOT DESIGN STANDARDS AND THE MANATEE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY, TRAFFIC AND STORMWATER STANDARDS.

RRFB NOTES:

1. A TRANSFORMER BASE IS REQUIRED FOR SOLAR-POWERED APPLICATIONS.
2. INSTALL CONTROLLER ON THE BACKSIDE OF POST FROM APPROACH TRAFFIC.
3. INSTALL PUSH BUTTON AND R10-25 SIGN IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 665-001.
4. ENGAGE ALL THREADS ON THE TRANSFORMER BASE AND POST UNLESS THE ALUMINUM POST IS FULLY SEATED INTO BASE.
5. MEET THE REQUIREMENTS OF SPECIFICATION 646 FOR ALUMINUM POLES AND TRANSFORMER BASES.
6. INSTALL A CONCRETE SLAB AROUND ALL PULL BOXES. THE MINIMUM SLAB DIMENSION IS 4'-0" BY 4'-0". IN URBAN AREAS WHERE SPACE IS LIMITED SLAB DIMENSIONS MAY BE ADJUSTED AS SHOWN IN THE PLANS.
7. WHEN WIRE ENTRY HOLES ARE DRILLED IN THE SIGN COLUMN, USE A BUSHING OR RUBBER GROMMET TOPROTECT CONDUCTORS.
8. SOLAR-POWERED APPLICATIONS, ORIENT SOLAR PANEL TO FACE SOUTH FOR OPTIMAL EXPOSURE TO SUNLIGHT.



REVISIONS			
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MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6105060

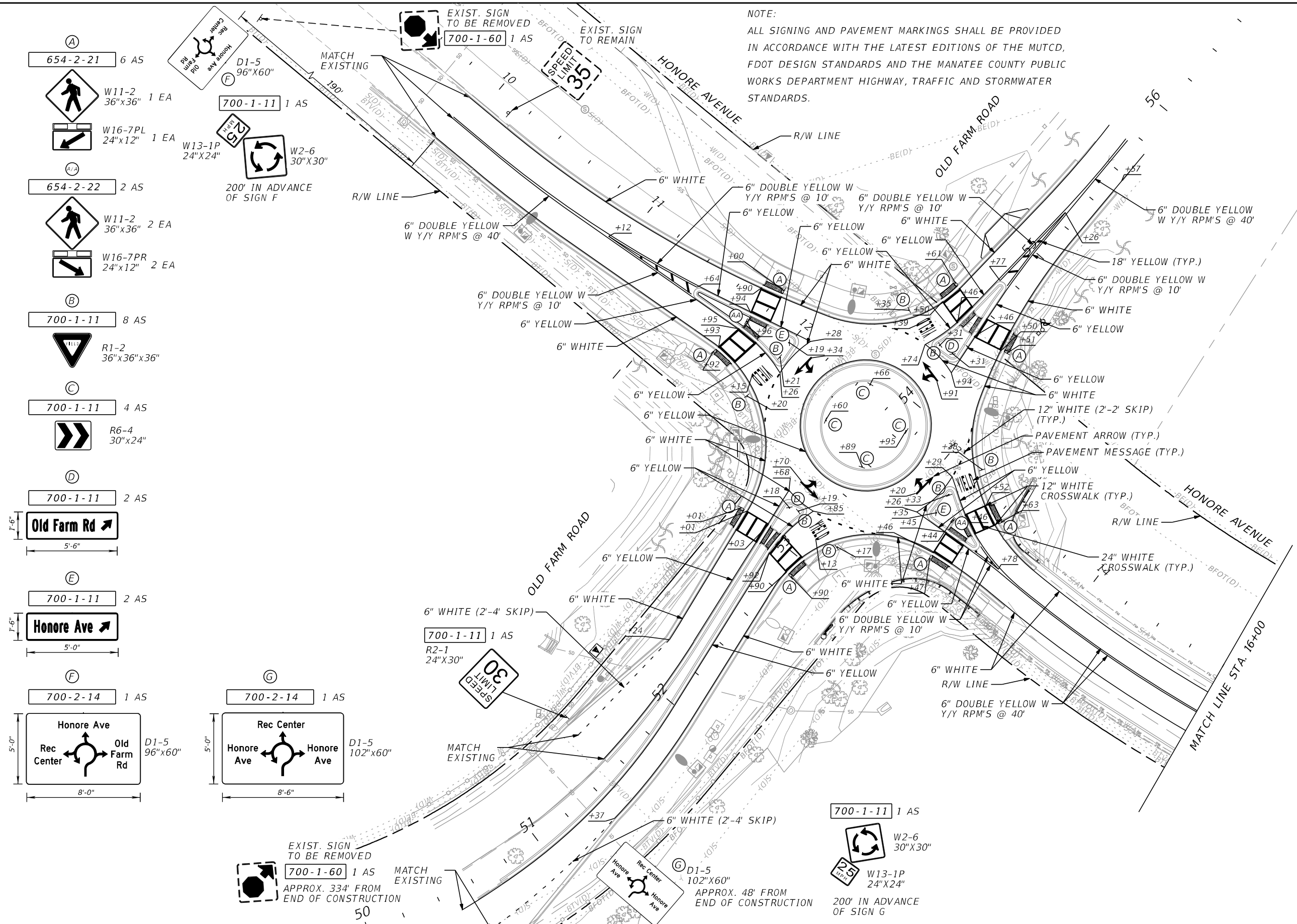
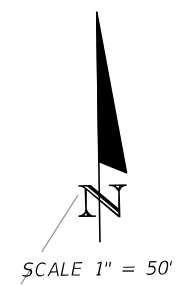
INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

SPM NOTES AND DETAILS

SHEET
NO.

41

NOTE:
 ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PROVIDED
 IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MUTCD,
 FDOT DESIGN STANDARDS AND THE MANATEE COUNTY PUBLIC
 WORKS DEPARTMENT HIGHWAY, TRAFFIC AND STORMWATER
 STANDARDS.



- (A) 654-2-21 6 AS
 W11-2 36"x36" 1 EA
 W16-7PL 24"x12" 1 EA
 W13-1P 24"x24" 1 EA
 W2-6 30"x30" 1 EA
 200' IN ADVANCE OF SIGN F
- (B) 700-1-11 8 AS
 R1-2 36"x36"x36"
- (C) 700-1-11 4 AS
 R6-4 30"x24"
- (D) 700-1-11 2 AS
 Old Farm Rd
- (E) 700-1-11 2 AS
 Honore Ave
- (F) 700-2-14 1 AS
 Honore Ave
 Rec Center
 Old Farm Rd
 D1-5 96"x60"
- (G) 700-2-14 1 AS
 Rec Center
 Honore Ave
 Honore Ave
 D1-5 102"x60"

REVISIONS			
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 CLEARWATER, FLORIDA, 33759
 (727) 531-3505

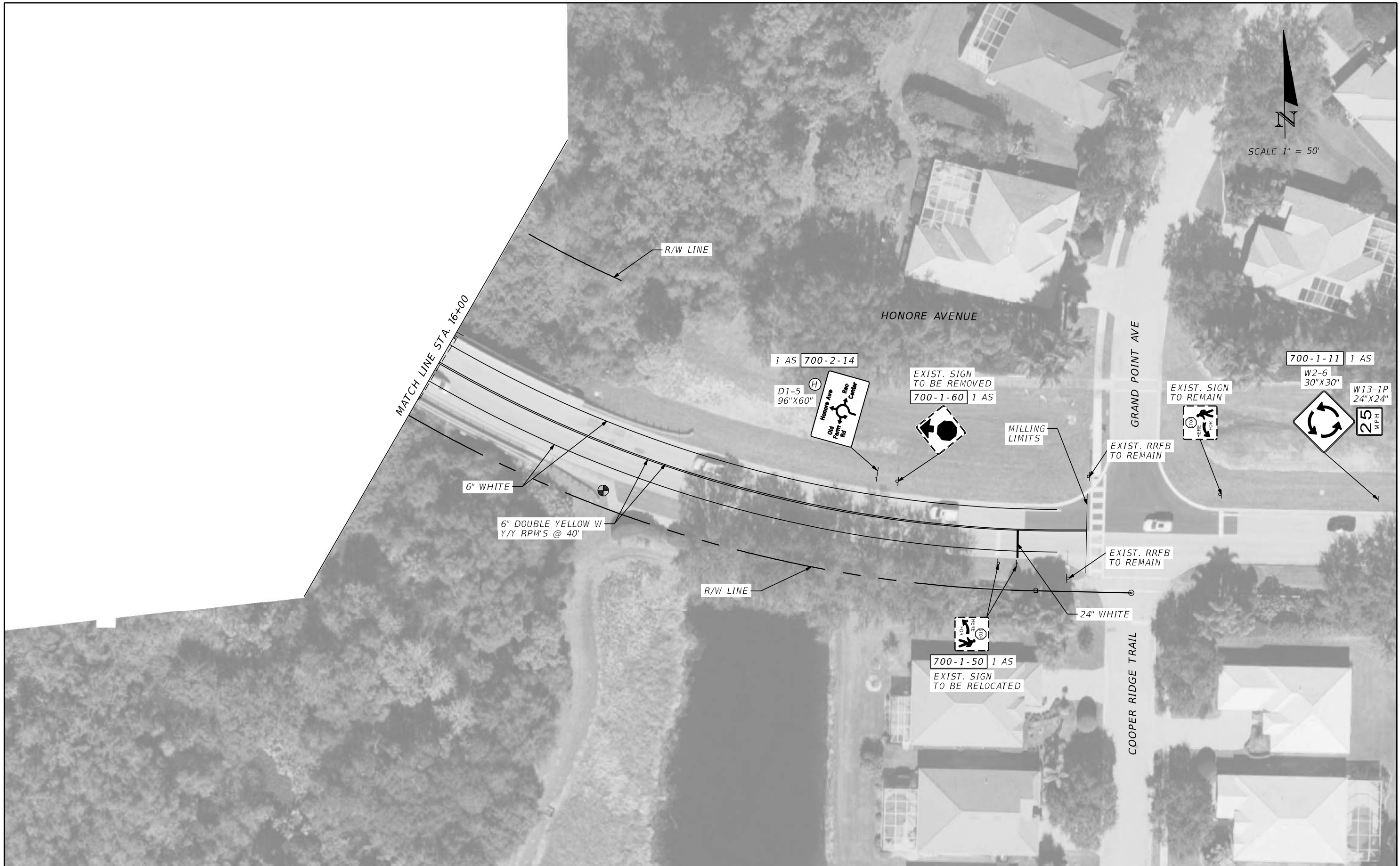


INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
**SIGNING AND PAVEMENT
 MARKING PLAN**

SHEET NO.
 42

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SCALE 1" = 50'



REVISIONS			
NO.	DESCRIPTION	DATE	BY



JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
**SIGNING AND PAVEMENT
 MARKING PLAN (2)**

SHEET NO.
 43

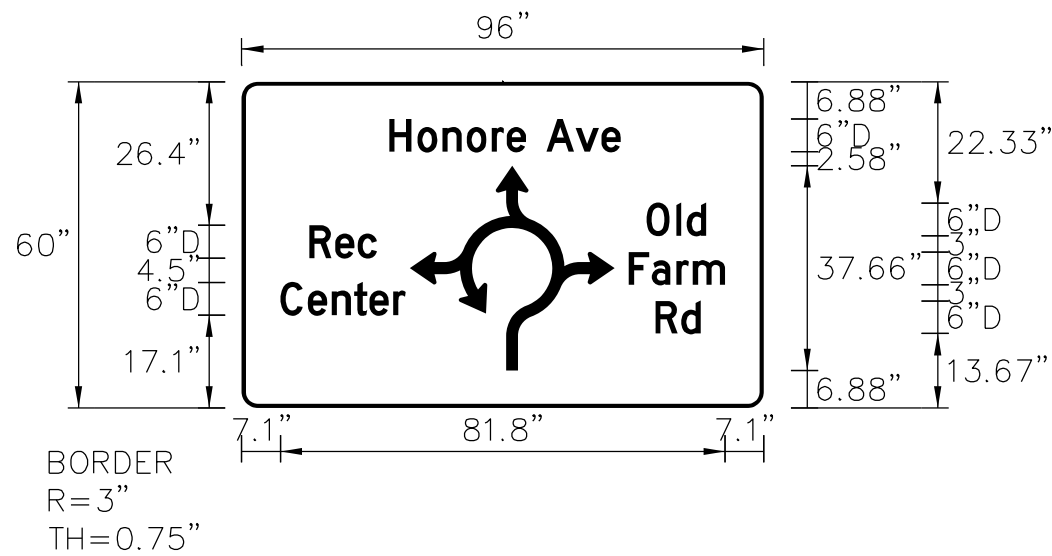
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGN NAME	F	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	8'-0"	WIDTH	0.75"		
HEIGHT	5'-0"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_ROUNDABOUT	0	30.9	6.9	37.7	37.7

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	WATT

PHOTOMETRIC CURVE	VOLTAGE



COPY	H	o	n	o	r	e	A	v	e	L										
SPACE	27.1	32.3	36.9	41.3	46	48.7	52.3	56	61.4	66.2	42.6									
COPY	o	l	d	L																
SPACE	74.4	79.9	81.8	11																
COPY	R	e	c	L																
SPACE	12.4	17.2	21.3	12.4																
COPY	F	a	r	m	L															
SPACE	71.2	75.4	79.9	82.9	17.7															
COPY	C	e	n	t	e	r	L													
SPACE	7.1	12.2	16.5	20.7	23.5	27.9	23													
COPY	R	d	L																	
SPACE	76.1	80.8	8.3																	
COPY																				
SPACE																				

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JEREMY F. RUNKLE, P.E.
P.E. LICENSE NUMBER 73855
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727) 531-3505

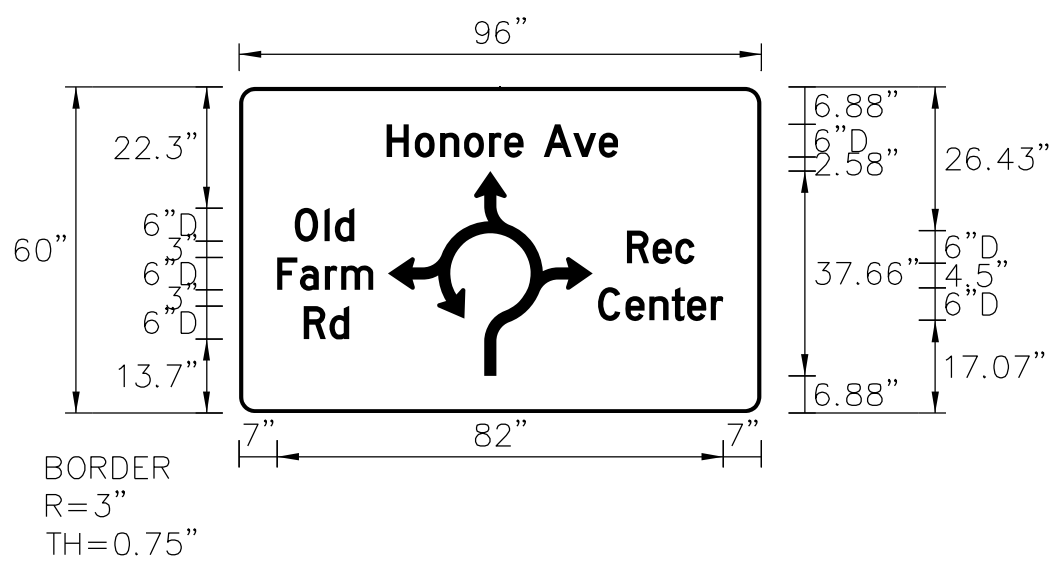


INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

GUIDE SIGN WORKSHEET (2)

SHEET NO.
45

SIGN NAME	H	QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH	8'-0"	WIDTH	0.75"	
HEIGHT	5'-0"	RADII	3"	
LEGEND	White	COLOR	White	
COLOR	Green			
SYMBOL(S)	ANGLE	X	Y	WID
AR_ROUNDABOUT	0	27.4	6.9	37.7
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge of Lane	COLUMN SIZE	AVERAGE LENGTH
NO. OF LIGHT FIXTURES	FIXTURE SPACING		WATT	
PHOTOMETRIC CURVE			VOLTAGE	



COPY	H	o	n	o	r	e	A	v	e	L
SPACE	27.1	32.3	36.9	41.3	46	48.7	52.3	56	61.4	66.2
COPY	0	i	d		L					
SPACE	10.2	15.7	17.6		11					
COPY	R	e	c		L					
SPACE	71.3	76	80.2		12.4					
COPY	F	a	r	m		L				
SPACE	7	11.2	15.7	18.7		17.7				
COPY	C	e	n	t	e	r	L			
SPACE	66	71	75.4	79.5	82.4	86.7	23			
COPY	R	d		L						
SPACE	11.9	16.6		8.3						
COPY										
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



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SUITE 300
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(727) 531-3505



INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD
GUIDE SIGN WORKSHEET (4)

SHEET NO.
47

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LIGHTING GENERAL NOTES

1. SPARE CONDUIT AT PAVEMENT CROSSINGS SHALL TERMINATE IN PULL BOXES AND BE CAPPED AT BOTH ENDS.
2. THE CONTRACTOR SHALL SUBMIT DESIGN DATA AND SHOP DRAWINGS FOR ALL EQUIPMENT TO MANATEE COUNTY TRAFFIC OPERATIONS DIVISION FOR REVIEW AND APPROVAL PRIOR TO ORDERING EQUIPMENT. THIS IS TO BE COORDINATED THROUGH THE MANATEE COUNTY CONSTRUCTION PROJECT MANAGER:

MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
2904 12TH STREET COURT EAST
BRADENTON, FLORIDA 34208
3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS.
4. BEFORE EXCAVATING, IT IS REQUIRED THAT NOTICE BE GIVEN TO SUNSHINE 811 A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE WORK BEGINS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SUNSHINE 811.
5. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS AND JUNCTION BOXES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED WITHIN THE RIGHT-OF-WAY BY THE CONTRACTOR WITH APPROVAL FROM THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS. THE MAINTENANCE SLAB ORIENTATION SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PER INDIVIDUAL POLE LOCATION.
6. NOTIFY THE LOCAL POWER COMPANY(S) AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE DISTANCE PER CURRENT OSHA REQUIREMENTS OF ENERGIZED ELECTRICAL CONDUCTORS. THE LOCAL POWER COMPANY(S), AT ITS OPTION, SHALL ASSIST THE FDOT CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITES OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
7. OVERHEAD FACILITIES ARE TO REMAIN ENERGIZED AND IN PLACE. TABLE "A", MINIMUM CLEARANCE DISTANCES SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/DERRICK OPERATIONS), AND/OR THOSE MINIMUM DISTANCES SPECIFIED IN 29 CFR 1910.333(c)(3)(i)(A) AND (iii)(A) FOR WORK IN PROXIMITY TO POWER LINES NOT COVERED BY THIS SUBPART CC, ARE TO BE MAINTAINED.
8. FINAL OFFSETS FOR THE STREET LIGHT POLES OR ARMS SHALL BE A MINIMUM OF 10 FEET FROM OVERHEAD CONDUCTORS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL POWER COMPANY TO DETERMINE IF A SERVICE PROCESSING OR OTHER FEES ARE REQUIRED. ANY FEES SHALL BE INCLUDED AS PART OF THE PAYMENT FOR THE LOAD CENTER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS OF THE POWER SERVICE AND LOAD CENTER. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION INSPECTION AND ENERGIZING OF THE NEW LOAD CENTER IN A TIMELY MANNER IN ORDER TO PROMOTE PROJECT COMPLETION WITHIN CONTRACT TIME.
10. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHT POLE FOUNDATIONS OR CONDUIT RUN, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL HAND DIG THE FIRST FIVE (5) FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
11. THE ROUNDABOUT LIGHTING WILL BE MAINTAINED BY MANATEE COUNTY. NOTIFY THE TRAFFIC ENGINEERING DIVISION (MR. VISHAL S. KAKKAD, 941-749-3502) AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO SCHEDULE THE FINAL INSPECTION. UPON PASSING THE FINAL INSPECTION, SEND A WRITTEN REQUEST TO THE FOLLOWING:

MR. AARON BURKETT
MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
2904 12TH STREET COURT EAST
BRADENTON, FLORIDA 34208
EMAIL: AARON.BURKETT@MYMANATEE.ORG

REQUESTING TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNTY. MANATEE COUNTY WILL RESPOND WITHIN FIVE (5) WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILITY.
12. WHEN CONSTRUCTION IS COMPLETE, A HARD COPY SET OF "AS-BUILT" PLANS IN ADDITION TO AN ELECTRONIC COPY (PDF) IS TO BE SUBMITTED TO:

MANATEE PUBLIC WORKS
ATTN: VISHAL S. KAKKAD, PE, PTOE
TRAFFIC DESIGN DIVISION MANAGER
2101 47TH TERRACE EAST
BRADENTON, FL 34203
EMAIL: VISHAL.KAKKAD@MYMANATEE.ORG

RECORD DRAWINGS AND INSPECTION FORMS MUST BE DELIVERED TO THE COUNTY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.
13. HANDHOLE COVERS FOR POLES SHALL BE LOCATED OPPOSITE APPROACHING TRAFFIC.
14. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM THE POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER THE LIGHT POLE COMPLETE PAY ITEM.

LIGHTING GENERAL NOTES (CONTINUED)

15. THE WIRES AT THE POLE HANDHOLES AND PULL BOXES SHALL BE LOOPED IN THE POLE AND PULL BOXES WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS AND SPLICES ONE FOOT OUTSIDE OF THE HANDHOLE AND PULL BOXES. THE SLACK IS FOR MAKING CONNECTIONS AND SPLICES ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.
16. LIGHT POLES AND PULL BOXES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DITCHES, WETLANDS, DRIVEWAYS, SURFACE WATER, PAVED SHOULDERS OR PEDESTRIAN RAMPS. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR AN APPROVED OFFSET ADJUSTMENT IF NECESSARY.
17. FOR LOCATIONS WHERE LIGHT POLES ARE WITHIN OR ADJACENT TO THE PROPOSED SIDEWALK, THE POLE FOUNDATION ELEVATION SHALL MATCH THE PROPOSED SIDEWALK GRADE.
18. FPL POWER SOURCE, POWER SERVICE ASSEMBLY, LOAD CENTER AND SERVICE CONNECTIONS:
 - THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 120 DAYS ADVANCE NOTICE TO HAVE FPL "CUT IN" A 120/240 SINGLE PHASE TRANSFORMER AS SHOWN IN THE PLANS. THE PROPOSED LOCATION IS APPROXIMATE AND COULD BE FIELD ADJUSTED BY FPL DURING INSTALLATION.
 - FPL MUST OPEN THE PROPOSED TRANSFORMER AND BE PRESENT DURING ALL WORK WITHIN THE TRANSFORMER. AT NO TIME ARE NON-FPL EMPLOYEES/CONTRACTORS ALLOWED TO ACCESS THE INSIDE OF FPL PADMOUNTED TRANSFORMERS.
 - OBTAIN AND FOLLOW FPL'S STANDARDS LOCATED AT WWW.FPL.COM/PARTNER/BUILDERS/SERVICE-STANDARDS.HTML AND WWW.FPL.COM/CONTENT/DAM/FPL/US/PARTNER/PDF/ELECTRIC-SERVICE-STANDARDS.PDF
 - THE POWER SERVICE ASSEMBLY AND LOAD CENTER SHALL BE INSTALLED A MINIMUM OF 8 FEET FROM THE PROPOSED FPL TRANSFORMER AND A MINIMUM OF 10 FEET FROM THE CLOSEST PART OF THE EXISTING SWITCH PACKAGE. THE CONTRACTOR SHALL INSTALL THEIR PROPOSED UNDERGROUND "METERED" 120/240V SINGLE PHASE SERVICE EXTENDING IT TO THE PROPOSED FPL TRANSFORMER, COORDINATING THE SPECIFICS AT THAT TIME.

LIGHTING PAY ITEM FOOTNOTES:

PAY ITEMS 630-2-11 AND 630-2-12:
THE LIGHTING CONDUITS SHALL BE FITTED WITH BELL ENDS OR EQUIVALENT FITTINGS PRIOR TO THE PULLING OF ANY WIRE INTO THE CONDUITS.

PAY ITEM 635-2-11:
THIS PAY ITEM SHALL INCLUDE THE COST OF A CONCRETE APRON AS SPECIFIED IN THE FDOT STANDARD PLANS AND SECURITY BOLTS FOR THE LIDS. THE BOLTS SHALL BE INSTALLED UPON FINAL ACCEPTANCE. THE PULL BOXES SHALL HAVE "STREET LIGHTING" STAMPED IN RAISED LETTERING ON THE PULL BOX LIDS.

PAY ITEM 639-1-122:
THE POWER SERVICE ASSEMBLY SHALL FOLLOW THE FDOT STANDARD PLANS AND SPECIFICATIONS AS WELL AS THE LOCAL POWER COMPANY REQUIREMENTS NECESSARY FOR A COMPLETE INSTALLATION.

PAY ITEM 715-4-12:
THIS PAY ITEM SHALL INCLUDE A STANDARD ALUMINUM LIGHT POLE WITH 35-FOOT MOUNTING HEIGHT, BRACKET ARM, LED LUMINAIRE, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, VIBRATION DAMPENING DEVICE, FRANGIBLE BREAKAWAY TRANSFORMER TYPE BASE AND A FDOT STANDARD FOUNDATION. SCREW FOUNDATIONS ARE NOT ALLOWED. THE COST OF BREAK-AWAY WATERTIGHT, IN-LINE FUSE HOLDERS, THE STRAIN RELIEF AND THE SURGE ARRESTOR SHALL BE PAID FOR UNDER PAY ITEM 715-500-1.

THE LUMINAIRE TO BE INCLUDED UNDER THIS PAY ITEM IS SPECIFIED ON THE LIGHTING DATA TABLE AND LEGEND SHEETS. THIS INCLUDES THE PHOTOMETRIC CURVES USED FOR THE ANALYSIS. THE LUMINAIRE SHALL INCLUDE EITHER HOUSE SIDE SHIELDS OR STREET SIDE SHIELDS AS SPECIFIED IN THE LIGHTING DATA TABLE. ALSO, ALL LUMINAIRES SHALL HAVE A EVOLVE FIELD ADJUSTABLE MODULE. THE LUMINAIRE HOUSING AND SHIELDS SHALL BE GRAY.



THE COST OF THE MAINTENANCE SLAB AS SPECIFIED IN THE FDOT STANDARD PLANS INDEX 715-001 IS INCLUDED UNDER THIS PAY ITEM. THE ORIENTATION OF THE MAINTENANCE SLAB IN THE PLANS IS SCHEMATIC AND MAY BE ADJUSTED BY THE CONTRACTOR UNDER APPROVAL OF THE ENGINEER. IF THE SLAB CONFLICTS WITH THE PROPOSED SIDEWALK OR RIGHT-OF-WAY LINE, THE SLAB SHALL BE MODIFIED BY ENDING THE SLAB ADJACENT TO THE EDGE OF THE SIDEWALK OR AT THE RIGHT-OF-WAY LINE. THERE SHOULD BE NO GAP BETWEEN THE SLAB AND THE EDGE OF SIDEWALK. THE SLAB ELEVATION SHALL MATCH THE BACK OF THE SIDEWALK ELEVATION.

PAY ITEM 715-7-11:
THIS PAY ITEM SHALL FOLLOW THE FDOT STANDARD PLANS AND SPECIFICATIONS TO FURNISH AND INSTALL THE LIGHTING LOAD CENTER. MATERIALS INCLUDE BUT ARE NOT LIMITED TO FUSED CONTROL POWER TRANSFORMERS, CABINET, ADDITIONAL ENCLOSURES, PANEL BOARDS, MAIN BREAKER, CIRCUIT BREAKERS, FUSES, LIGHTNING PROTECTOR, PHOTO-ELECTRIC ASSEMBLY, CONTACTOR, H.O.A SWITCH, MAINTENANCE SLAB, CABINET FOUNDATION, CONDUIT AND FEEDER CONDUCTORS FROM THE POWER COMPANY POINT OF SERVICE TO THE LOAD CENTER AND ALL MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION.

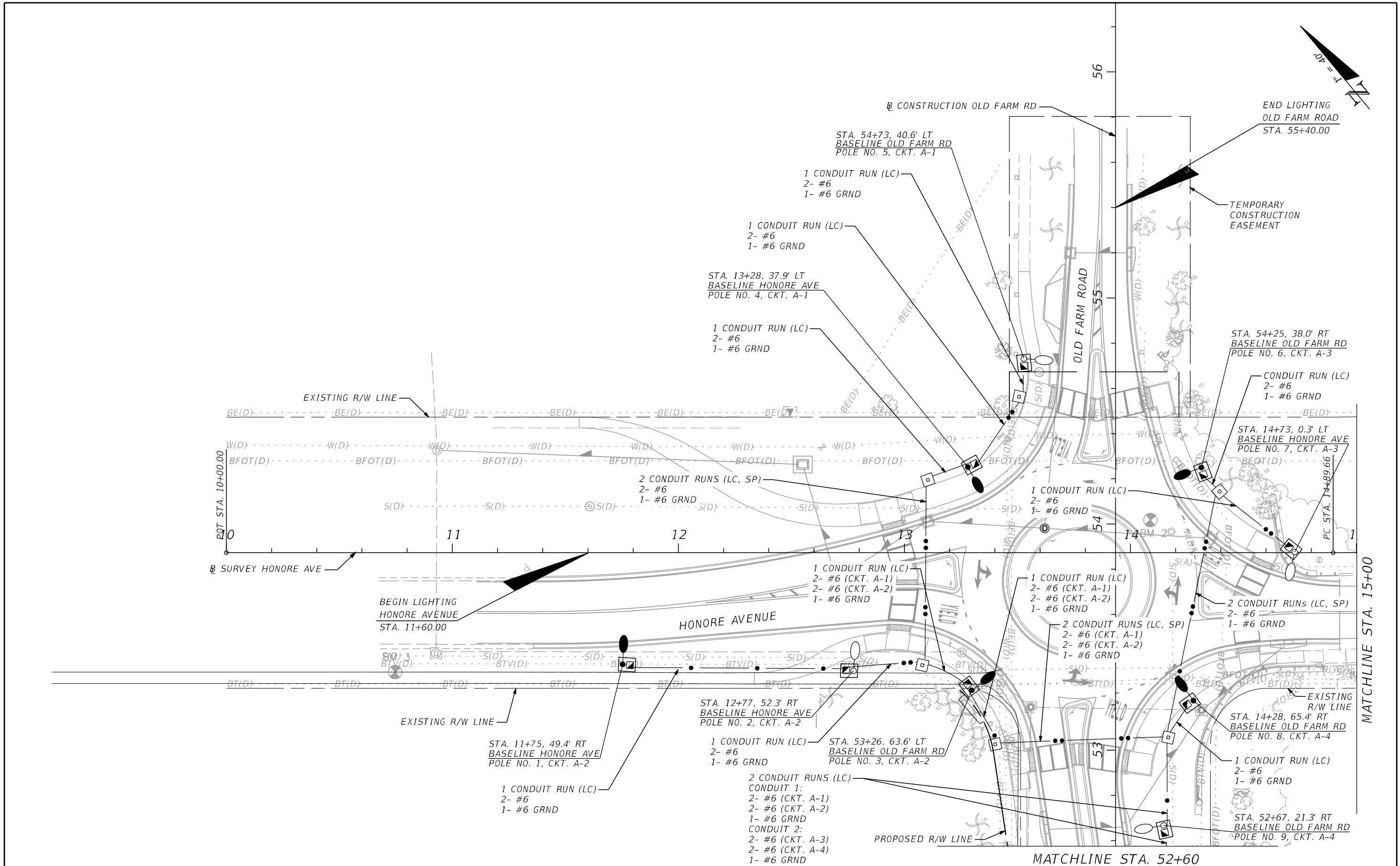
PAY ITEM 715-500-1:
POLE CABLE DISTRIBUTION SYSTEMS SHALL BE INSTALLED AT ALL LIGHT POLE LOCATIONS.

CONDUIT LEGEND

LC = LIGHTING CONDUIT POPULATED WITH CONDUCTORS
SP = EMPTY SPARE LIGHTING CONDUIT

REVISIONS				 STANTEC CONSULTING SERVICES INC.	DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727) 531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6105060	INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD LIGHTING GENERAL NOTES	SHEET NO. 48
NO.	DESCRIPTION	DATE	BY					

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



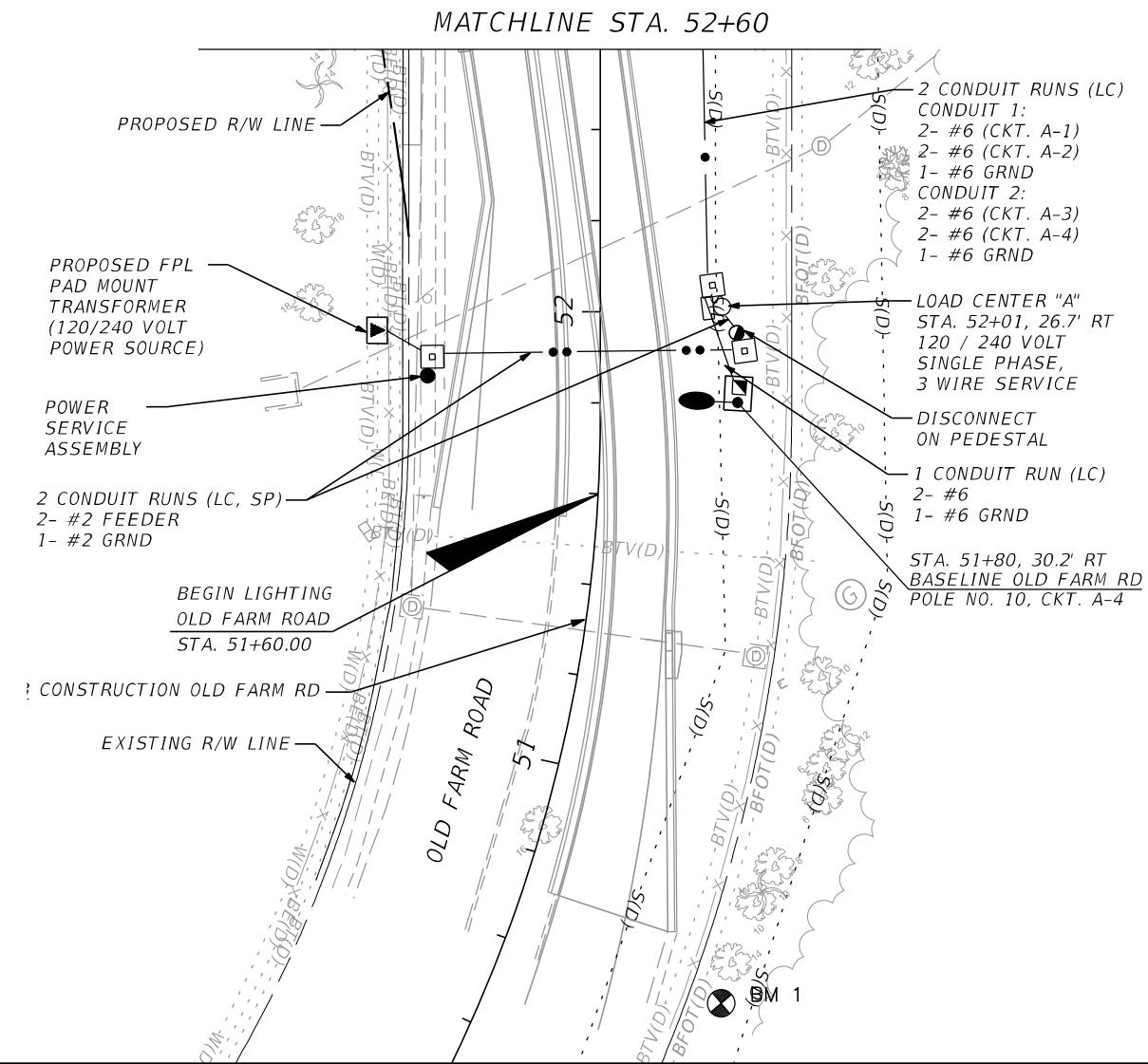
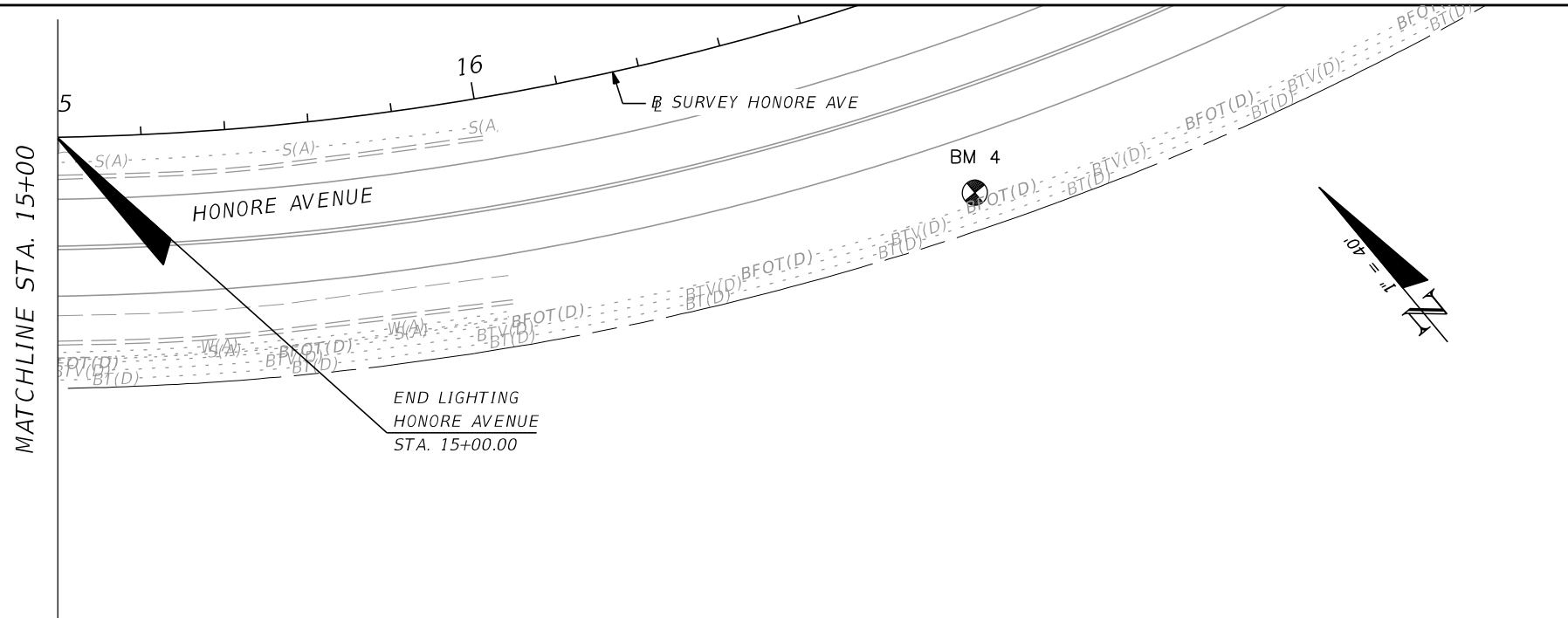
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
LIGHTING PLAN (1)

SHEET NO.
 50

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NO.	DESCRIPTION	DATE	BY



DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
LIGHTING PLAN (2)

SHEET
 NO.
 51

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PANEL "A" SCHEDULE

Panel ID: <u>Proposed Load Center "A"</u>	Main Breaker: <u>100 A</u>
Location: <u>Sta. 52+01 BL Old Farm Road, 26.7' RT Offset</u>	Voltage: <u>120/240 V</u>
Mounting: <u>Surface</u>	Single Phase, 3-wire



	Circuit Description	Load (KVA)	Breaker	Pole	Bus	Pole	Breaker	Load (KVA)	Circuit Description	
1	A-1	0.136	20	2	A	2	20	0.136	A-3	2
3	↓	0.136						0.136	↓	4
5	A-2	0.204	20	2	A	2	20	0.204	A-4	6
7	↓	0.204						0.204	↓	8
9					A					10
11										12
13					A					14
15										16
17					A					18
19										20
21					A					22
23										24

NOTES

- SAFETY SWITCH - 100 AMP F/A 100 AMP

TOTAL DEMAND 1.362 KVA
 TOTAL DEMAND AMPS 5.68 AMPS

NO. OF LIGHT POLES 10

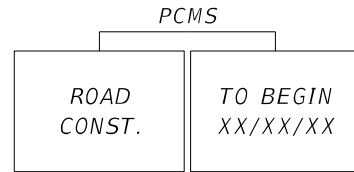
REVISIONS				 Stantec STANTEC CONSULTING SERVICES INC.	DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727) 531-3505	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6105060	INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD	SHEET NO. 52
NO.	DESCRIPTION	DATE	BY				LOAD CENTER PANEL SCHEDULE	

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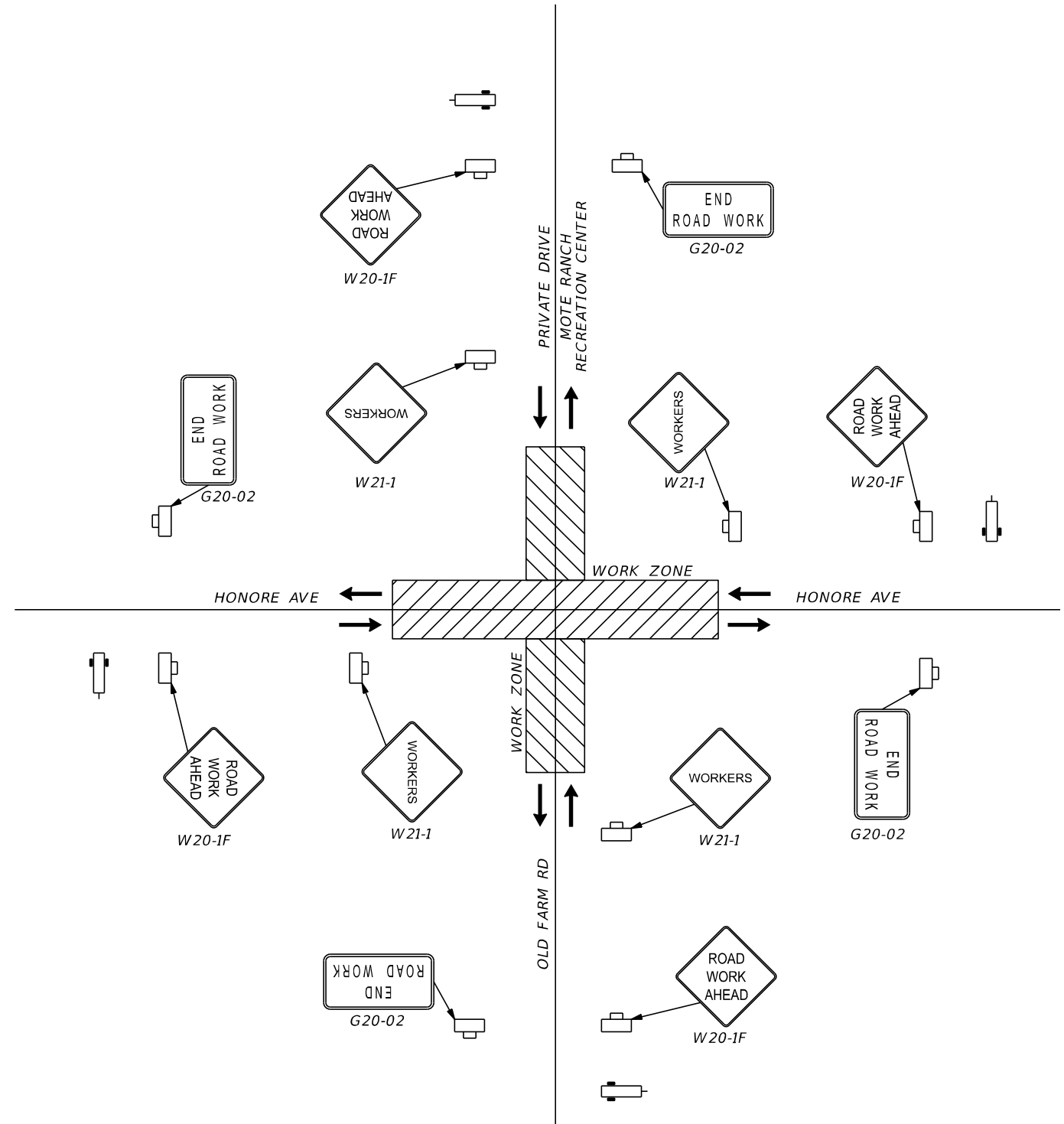
TEMPORARY TRAFFIC CONTROL NOTES:

USE THE FOLLOWING INFORMATION IN DEVELOPING A MAINTENANCE OF TRAFFIC PLAN:

1. THE REGULATORY SPEED MUST REMAIN THE SAME AS THE EXISTING POSTED SPEED LIMIT OF 35 MPH.
2. MAINTAIN THE EXISTING NUMBER OF LANES AND 2-WAY TRAFFIC AT ALL TIMES.
3. NO LANE CLOSURES WILL BE ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 2:00 PM TO 8:00 PM.
4. PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) ONE WEEK IN ADVANCE NOTIFYING THE START OF CONSTRUCTION DATE.



5. PROVIDE TEMPORARY TRAFFIC CONTROL FOR PEDESTRIANS AND BICYCLISTS WHEN EXISTING FACILITIES ARE IMPACTED.
6. UTILIZE STANDARD PLAN INDEX 102-600 AND THE APPLICABLE STANDARD PLAN INDEXES 102-601, 102-602, 102-603, 102-604 AND 102-608, IN DEVELOPING THE MAINTENANCE OF TRAFFIC PLAN.
7. SIDEWALKS SHALL ONLY BE CLOSED ON ONE SIDE OF THE ROAD AT A TIME, THROUGHOUT ALL PHASES OF CONSTRUCTION. A PEDESTRIAN CONTROL ROUTE SHALL BE PROVIDED IN ACCORDANCE WITH FDOT INDEX 102-660.
8. MAINTAIN ALL EXISTING WARNING, GUIDE, AND REGULATORY SIGNS AT ALL TIMES. SIGNS MUST BE RELOCATED, REMOVED, OR COVERED FOR EACH TRAFFIC PATTERN PHASE, AS APPROVED BY THE ENGINEER.
9. THE EXACT LOCATION OF ALL SIGNS AND BARRICADES MUST BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER TO ENSURE MINIMUM SIGHT DISTANCES ARE MET.
10. SUBMIT A DETAILED MOT PLAN WHICH SHALL BE SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER WITH FDOT ADVANCED TRAFFIC CONTROL CERTIFICATION, SUBJECT TO APPROVAL BY MANATEE COUNTY PUBLIC WORKS.



ADVANCED SIGNAGE DETAIL

SEE FDOT INDEX SERIES FOR EXACT LOCATION AND SPACING DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



MANATEE COUNTY
 PUBLIC WORKS
 COUNTY PROJECT NO:
 6105060

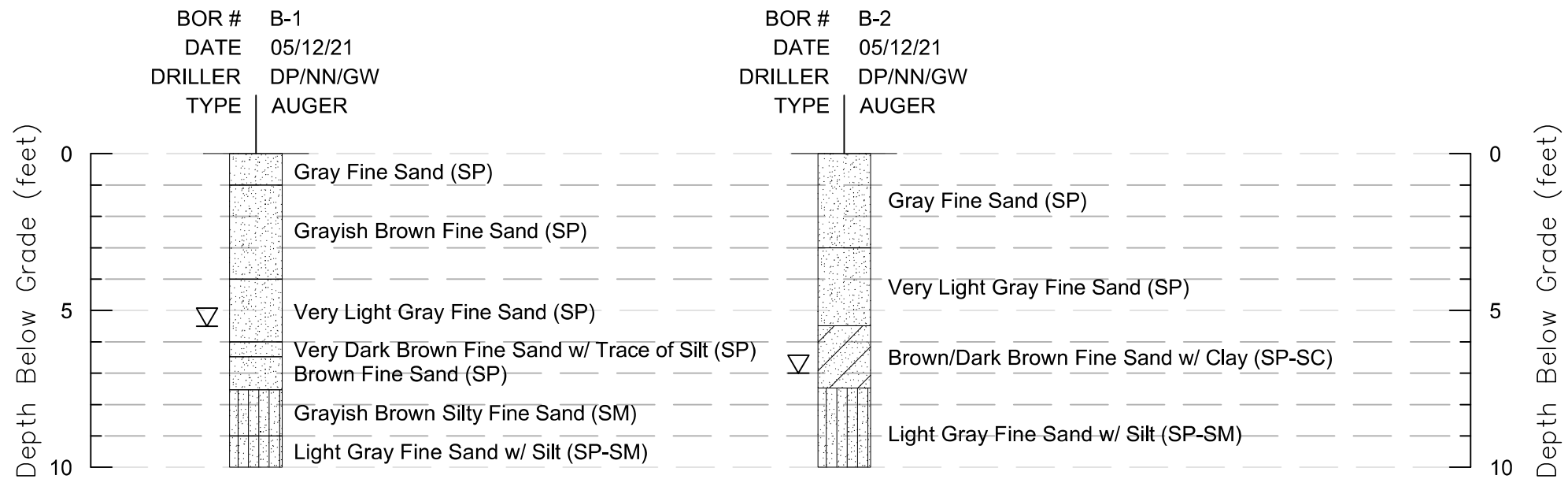
INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

TRAFFIC CONTROL NOTES

SHEET NO.

53

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LEGEND

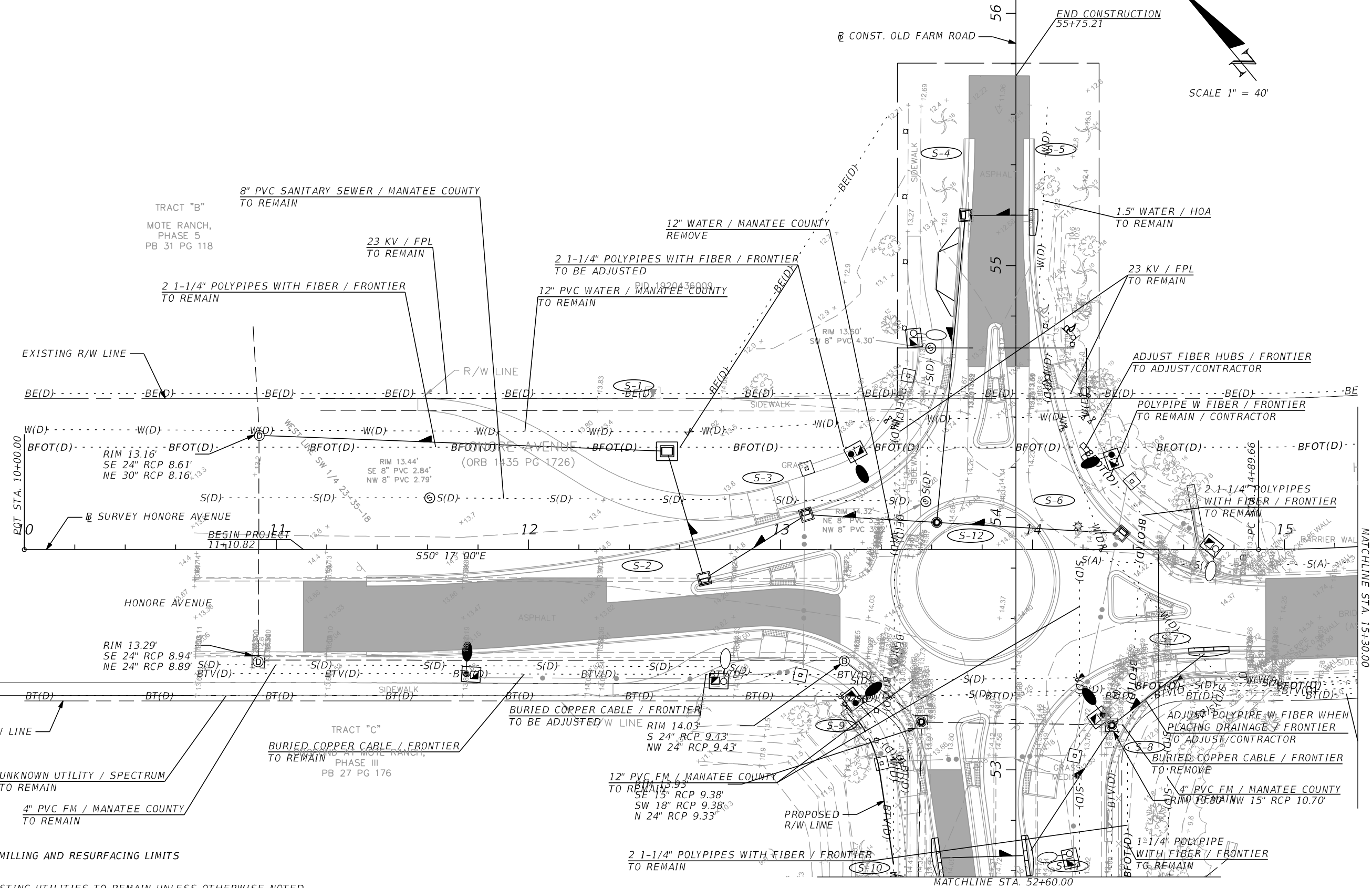
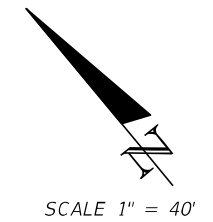
▽ GROUNDWATER LEVEL MEASURED ON DATE DRILLED

SP-SM,SM,SC UNIFIED SOIL CLASSIFICATION SYSTEM

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHS, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED. GROUND WATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR. ABSENCE OF WATER SURFACE DATA ON CERTAIN BORINGS IMPLIES THAT NO GROUNDWATER DATA IS AVAILABLE, BUT DOES NOT NECESSARILY MEAN THAT GROUNDWATER WILL NOT BE ENCOUNTERED AT THESE LOCATIONS OR WITHIN THE VERTICAL REACHES OF THESE BORINGS IN THE FUTURE.

REVISIONS				VIRGINIA ANN GOFF, P.E. P.E. LICENSE NUMBER 85320 ARDAMAN & ASSOCIATES, INC. 1724 BARBER RD. SARASOTA, FL 34240	MANATEE COUNTY		Roundabout, Honore Ave. and Old Farm Road Intersection Bradenton, Manatee County, Florida	SHEET NO. SOIL BORINGS (1 OF 1) 54
DATE	DESCRIPTION	DATE	DESCRIPTION		Road No.	Project No.		
					Old Farm Road and Honore Ave.	6105060		

NOTE:
ALL PVC WATER MAINS UNDER PROPOSED ASPHALT SHALL BE REPLACED WITH DUCTILE IRON PIPE TO THE R/W.



LEGEND
 MILLING AND RESURFACING LIMITS

NOTE: ALL EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE NOTED.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



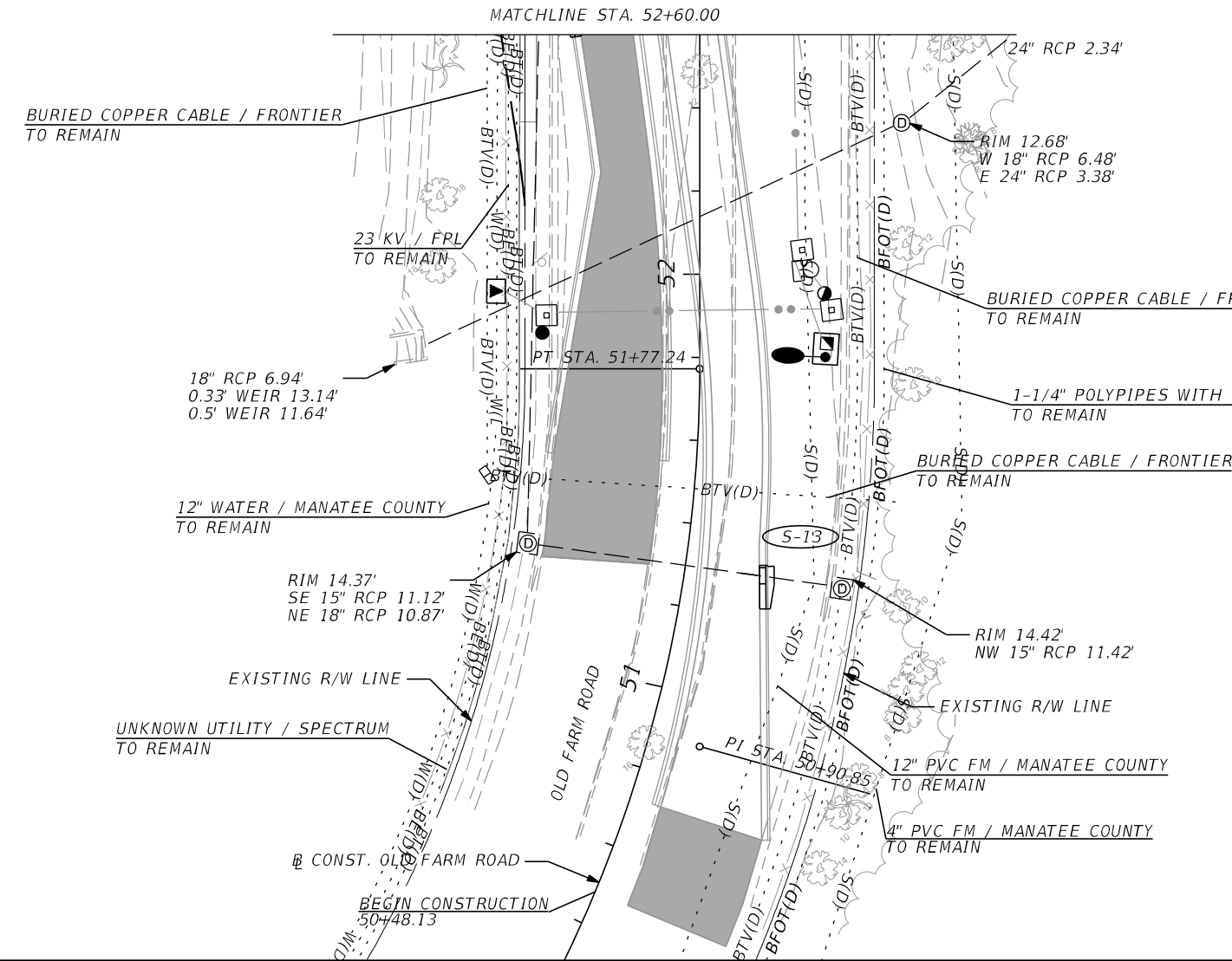
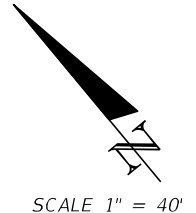
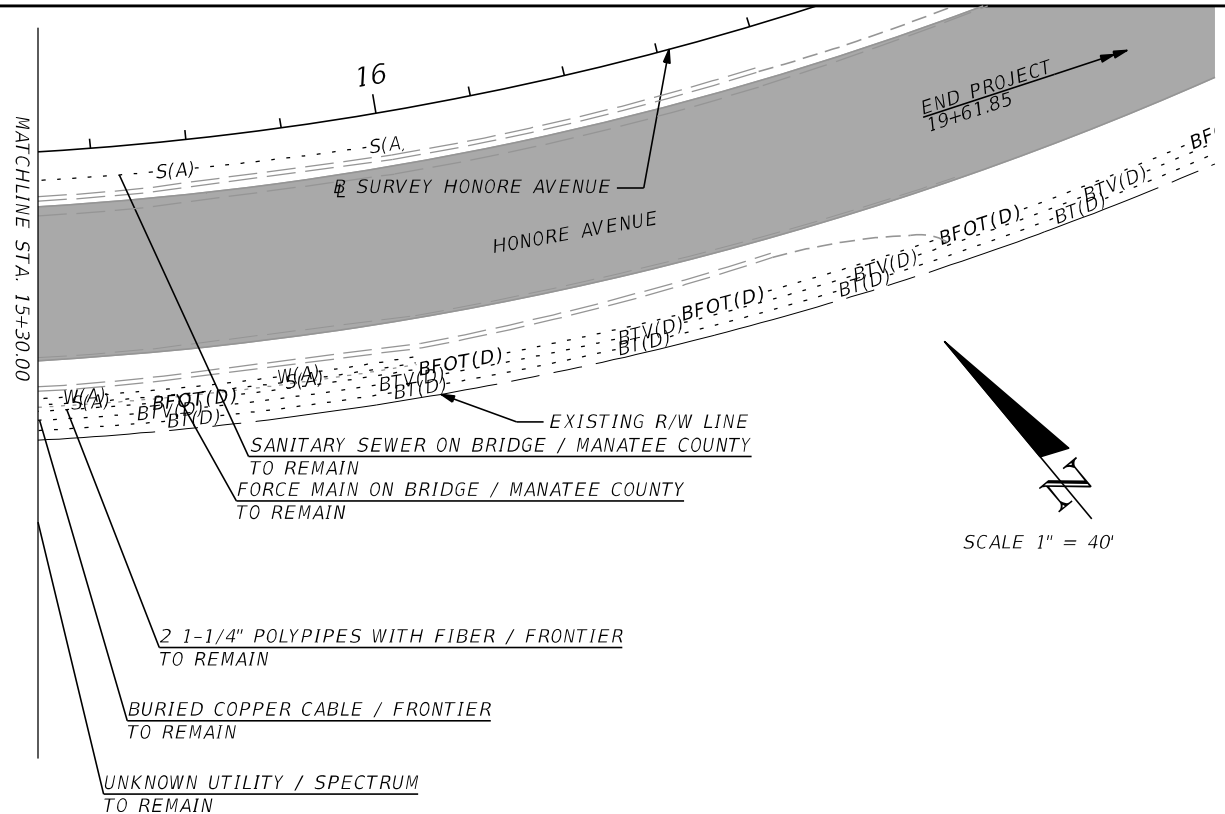
JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
UTILITY ADJUSTMENTS (1)

SHEET NO.
 55

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CURVE DATA CURV02
 PI STA. = 50+90.85
 Δ = 31° 03' 17" (LT)
 D = 17° 31' 18"
 T = 90.85
 L = 177.24
 R = 327.00
 PC STA. = 50+00.00
 PT STA. = 51+77.24

LEGEND
 MILLING AND RESURFACING LIMITS

NOTE:
 ALL PVC WATER MAINS UNDER PROPOSED ASPHALT SHALL BE REPLACED WITH DUCTILE IRON PIPE TO THE R/W.
 ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



JEREMY F. RUNKLE, P.E.
 P.E. LICENSE NUMBER 73855
 380 PARK PLACE BOULEVARD
 SUITE 300
 CLEARWATER, FLORIDA, 33759
 (727) 531-3505





INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO. 56
UTILITY ADJUSTMENTS (2)		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MANATEE COUNTY UTILITY RELOCATION NOTES:

1. B.M. VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED IN THE NORTH AMERICAN VERTICAL DATUM OF 1988, (NAVD 88).
2. INSTALLATION/REMOVAL/PLUGGING OF THE UTILITY PIPELINES IS TO INCLUDE RECORD PLAN INFORMATION FURNISHED TO THE ENGINEER. THE RECORD PLANS MUST IDENTIFY AND SATISFY THE MANATEE COUNTY PUBLIC WORKS AS-BUILT/RECORD DRAWING REQUIREMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL ALIGNMENT, TYPE OF MATERIAL, LOCATIONS OF MATERIAL CHANGES FOR ALL WATER, RECLAIMED AND SEWER LINES, CASINGS, VALVES, TEES, BENDS, REDUCERS, HYDRANTS, CASINGS, SERVICE SIZE CONNECTIONS, GROUTING LIMITS, METER BOXES AND/OR PAD, AND OTHER PERTINENT STRUCTURES. PIPELINE RUNS IN EXCESS OF 100 FEET, WITHOUT FITTINGS ARE TO INCLUDE VERTICAL ALIGNMENT INFORMATION AT 100 FEET INTERVALS. SAID ALIGNMENT IS TO BE TIED TO STATE PLANE COORDINATES, AND IS TO BE CERTIFIED BY A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF FLORIDA. ALL POINTS (X,Y,Z) PROVIDED ARE TO INDICATE THE SIZE, ELEVATION AND TYPE AND MATERIAL (INCLUDING CLASS OR DR) OF ITEM BEING IDENTIFIED. THE CONTRACTOR IS TO CONNECT THE AS-BUILT POINTS AND ENSURE THE ACCURACY OF THE DATA PRIOR TO PROVIDING THE DATA/DRAWINGS TO THE ENGINEER. CONTRACTOR SHALL PERFORM A QUALITY CONTROL REVIEW OF ALL INFORMATION PROVIDED TO THE ENGINEER. ENGINEER WILL RETURN ALL DRAWINGS AND DATA TO THE CONTRACTOR IF ANY INACCURACIES ARE FOUND AND/OR CORRECTIONS ARE NEEDED.
 PROVIDE GEO-REFERENCED OR STATION/OFFSET REFERENCED DIGITAL PICTURES (NO MORE THAN TWO (2) PER LOCATION) FOR ALL TIE-INS AND FITTINGS PRIOR TO BACKFILL. SUBMIT TO THE ENGINEER ALL AS-BUILT INFORMATION OF CONSTRUCTED WORK ON NO MORE THAN A BI-WEEKLY BASIS. IF DATA IS MISSING AND/OR INACCURATE, RE-EXCAVATE SUBJECT AREA TO OBTAIN REQUIRED INFORMATION AND RESTORE AREA AT NO ADDITIONAL EXPENSE TO THE MANATEE COUNTY PUBLIC WORKS. LIMITS OF RESTORATION WILL BE SUBJECT TO MANATEE COUNTY PUBLIC WORKS APPROVAL.
3. THE LOCATIONS, ELEVATIONS, & DIMENSIONS OF THE EXISTING UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATION APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
4. RESTRAIN ALL PROPOSED WATER MAIN PIPE JOINTS. RESTRAIN ALL EXISTING WATER MAINS THAT ARE BEING TIED INTO BASED ON THE RESTRAINT SCHEDULE SHOWN IN THE DETAILS.
5. EXISTING ACTIVE WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW LINE IS CONSTRUCTED AND ACCEPTED BY FDEP AND THE MANATEE COUNTY PUBLIC WORKS.
6. CONTRACTOR SHALL MAINTAIN WATER SERVICES TO THE EXISTING RESIDENCE AND BUSINESSES AT ALL TIMES.
7. ALL VALVES, FITTINGS, BENDS, HYDRANTS, APPURTENANCES AND WATERMAIN SHALL MEET MANATEE COUNTY STANDARDS.
8. ALL EXISTING VALVES WITHIN THE PAVEMENT LIMITS SHALL HAVE THE COVER AND BOX ADJUSTED FLUSH WITH FINISHED GRADE.
9. ALL WATER SERVICE LINES TO BE PLACED OUT OF SERVICE ARE TO BE CUT AND CAPPED. THE SERVICE LINES WILL NOT BE GROUTED. CUTTING AND CAPPING THE EXISTING SERVICE LINE IS CONSIDERED INCIDENTAL TO THE NEW SERVICE AND NO SEPARATE PAYMENT WILL BE MADE.
10. THE 12" AND 16" WATER LINE WILL REQUIRE A PIG TO BE PLACED THROUGH THE PIPE PRIOR TO CHLORINATION AND PRESSURE TESTING. A FULL BORE FLUSH OF THE LINE WILL BE REQUIRED. MULTIPLE RUNS OF THE PIG MAYBE REQUIRED BY THE CONTRACTOR TO OBTAIN THE COUNTY'S APPROVAL. CONTRACTOR TO SUBMIT A SHOP DRAWING OF THE PIG FOR APPROVAL PRIOR TO USE.
11. CONTRACTOR TO BE ADVISED UPON REMOVAL OF EXISTING WATERMAIN, TRENCH AND BEDDING WILL NEED TO BE RE-ESTABLISHED PER COUNTY DETAILS AND SPECIFICATIONS, FOR THE NEW WATERMAIN, IF AFFECTED BY THE PIPE REMOVAL.
12. EXISTING WATERMAIN TAKEN OUT OF SERVICE WILL BE REMOVED AND DISPOSED OF PER MANATEE COUNTY SPECIFICATIONS.
13. THE CONTRACTOR IS TO VERIFY IN THE FIELD THE LOCATION AND ELEVATION OF ALL EXISTING UTILITY CONNECTION POINTS PRIOR TO STARTING CONSTRUCTION AND WILL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
14. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME CONFLICTS WITH UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY CONFLICTS WITH PROPOSED WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, PROTECT, AND REPLACE (IF DAMAGED) ANY AND ALL EXISTING UTILITIES ON THIS PROJECT AT THEIR OWN EXPENSE.
15. ALL POTABLE WATER, FIRE, IRRIGATION SYSTEM, SANITARY SYSTEM, STORM SYSTEM AND OTHER UTILITIES COMPONENTS ARE TO BE PROTECTED AND WILL HAVE MINIMUM DISRUPTION DURING CONSTRUCTION. THE CONTRACTOR WILL IMMEDIATELY REPAIR ANY DAMAGE TO THE SYSTEMS.
16. DISRUPTIONS TO EXISTING RESIDENTIAL/COMMERCIAL WATER AND SEWER SERVICE WILL BE KEPT TO A MINIMUM. ALL WATER SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH MANATEE COUNTY PUBLIC WORKS PROJECT MANAGER AND IN ACCORDANCE WITH ANY PROCEDURES FOR SHUT DOWNS.
17. 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 RIGHT OF WAY.
18. 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.
19. ALL MANATEE COUNTY UTILITY WORK SHALL CONFORM TO PUBLIC WORKS STANDARDS PART 1 UTILITIES STANDARDS MANUAL DATED 2022, AND APPROVED PRODUCTS LIST.
20. ALL WATER AND SEWER VALVES, MANHOLES AND VALVE PADS SHOULD REMAIN VISIBLE AND ACCESSIBLE THROUGHOUT CONSTRUCTION AND BE BROUGHT TO FINAL GRADE PER COUNTY STANDARDS AT END OF CONSTRUCTION.
21. ANY HYDRANTS, SERVICES AND VALVES THAT ARE IN CONFLICT WILL BE REPLACED AND UP TO CURRENT COUNTY STANDARDS.
22. IF SERVICES OR HYDRANTS ARE HIT/DAMAGED, THEY WILL BE REPLACED TO THE CURRENT COUNTY STANDARDS.

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REVISIONS				 Stantec <small>STANTEC CONSULTING SERVICES INC.</small>	DANIEL M. CRAIG, P.E. P.E. LICENSE NUMBER 38590 1821 VICTORIA AVENUE FORT MYERS, FLORIDA, 33901 (239) 347-5512	 MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6105060	INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD UTILITY RELOCATION NOTES	SHEET NO.
NO.	DESCRIPTION	DATE	BY					U-1

UTILITY TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	
			U-3		U-4		U-5								PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
1010-012	12" CUT IN CONNECTION	EA	2												2		2	
1010-016	16" CUT IN CONNECTION	EA					1								1		1	
1050-16001	1.5" WM SERVICE REMOVAL	LF			55										55		55	
1050-16003	UTILITY PIPE, REMOVE & DISPOSE, 12"	LF	120		77										197		197	
1050-16004	UTILITY PIPE, REMOVE & DISPOSE, 16"	LF					124								124		124	
1050-51212	12" CL350 DIP WATERMAIN	LF	135		133			2							270		270	
1050-51216	16" CL350 DIP WATERMAIN	LF						108							108		108	
1055-51116	UTILITY FITTINGS, 16"-90 DEG MJ BEND (RJ)	EA						1							1		1	
1055-52112	UTILITY FITTINGS, 12"-45 DEG MJ BEND (RJ)	EA	6		5										11		11	
1055-52116	UTILITY FITTINGS, 16"-45 DEG MJ BEND (RJ)	EA						1							1		1	
1055-53112	UTILITY FITTINGS, 12"-22.5 DEG MJ BEND (RJ)	EA	1												1		1	
1055-54306	UTILITY FITTINGS, 12"x6" MJ REDUCER (RJ)	EA			1										1		1	
1055-54312	UTILITY FITTINGS, 16"x12" MJ REDUCER (RJ)	EA						1							1		1	
1055-55212	UTILITY FITTINGS, 12"x12" MJ CROSS (RJ)	EA			1										1		1	
1080-21101	POTABLE WATER SERVICE, 1.5", SCH 80	LF			62										62		62	
1080-24102	UTILITY FIXTURE, 2" GV W/BOX, PAD, ID & TRACER	EA			1										1		1	
1080-24112	UTILITY FIXTURE, 12" GV W/BOX, PAD, ID & TRACER	EA	1		1										2		2	
1644113	FIRE HYDRANT, F&I, COMPLETE	EA			1										1		1	
1644900	FIRE HYDRANT, REMOVE	EA			1										1		1	
1800-1000	ADJUST MH RIM & COVER	EA	2												2		2	
1800-1100	ADJUST VALVE	EA						1							1		1	
1800-1200	RELOCATE EXISTING WATER METER, BOX AND BACKFLOW PREVENTION DEVICE	EA			1										1		1	

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

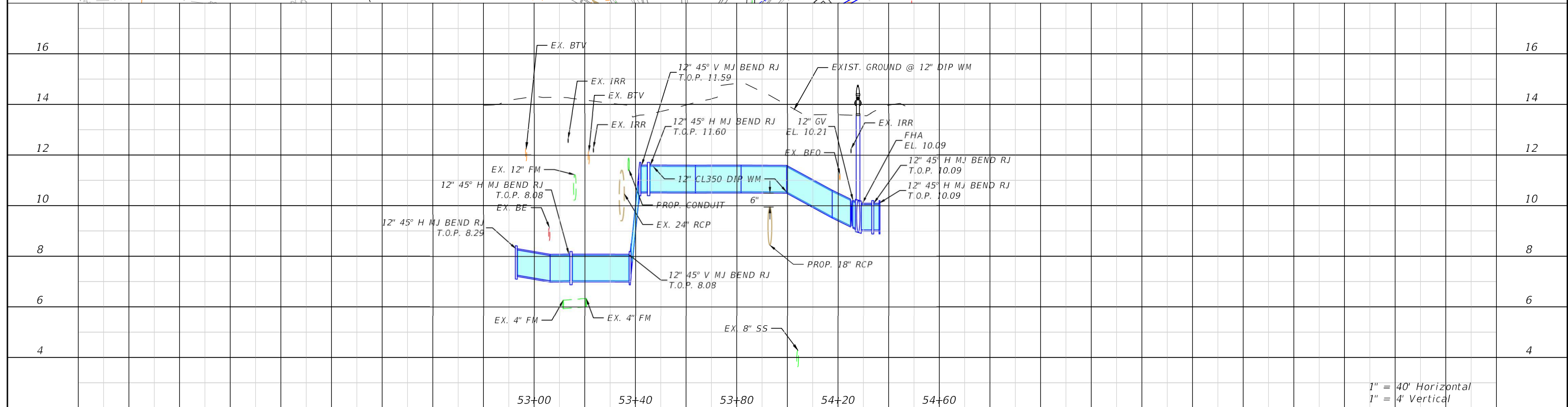
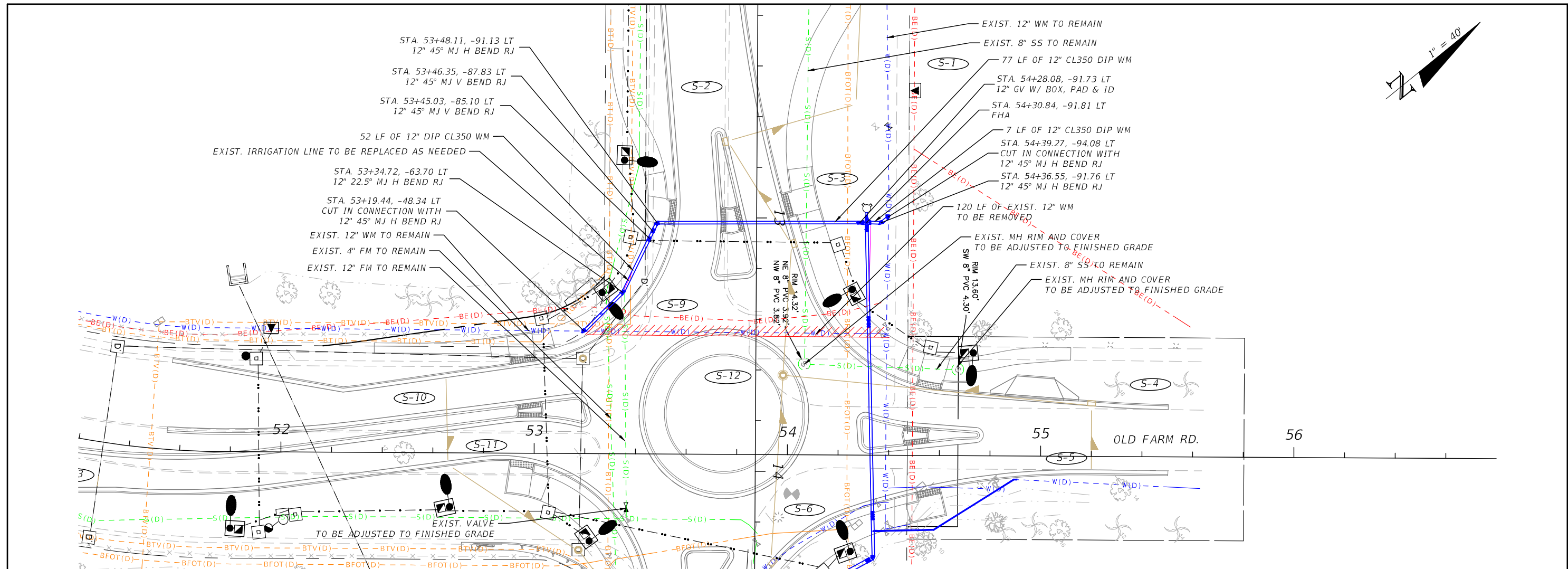
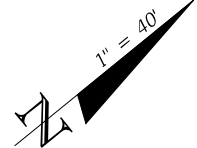


DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 1821 VICTORIA AVENUE
 FORT MYERS, FLORIDA, 33901
 (239) 347-5512



INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD
**UTILITY TABULATION
 OF QUANTITIES**

SHEET NO.
 U-2



1" = 40' Horizontal
1" = 4' Vertical

REVISIONS			
NO.	DESCRIPTION	DATE	BY



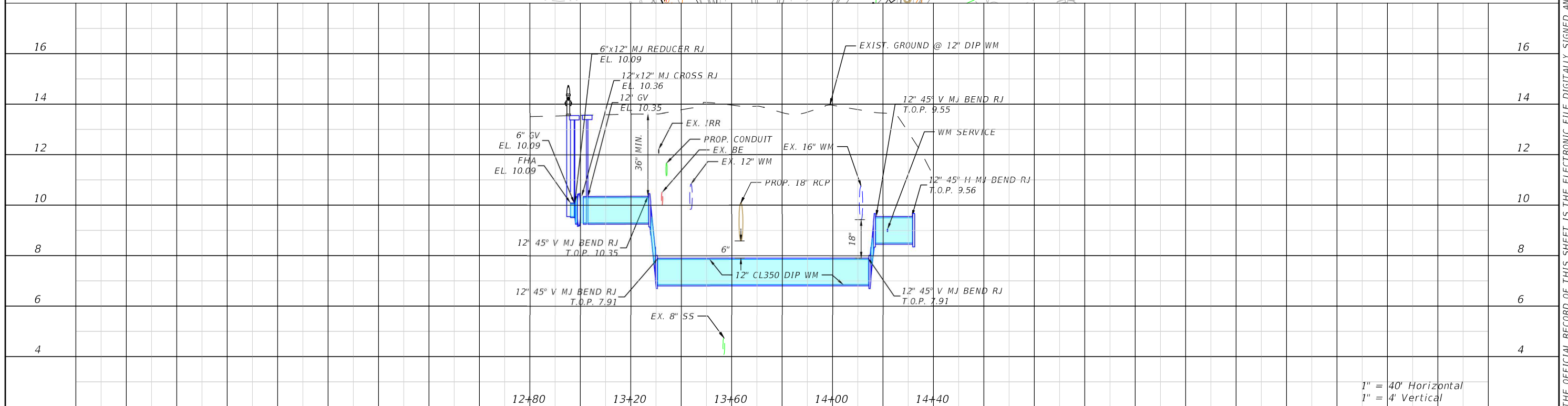
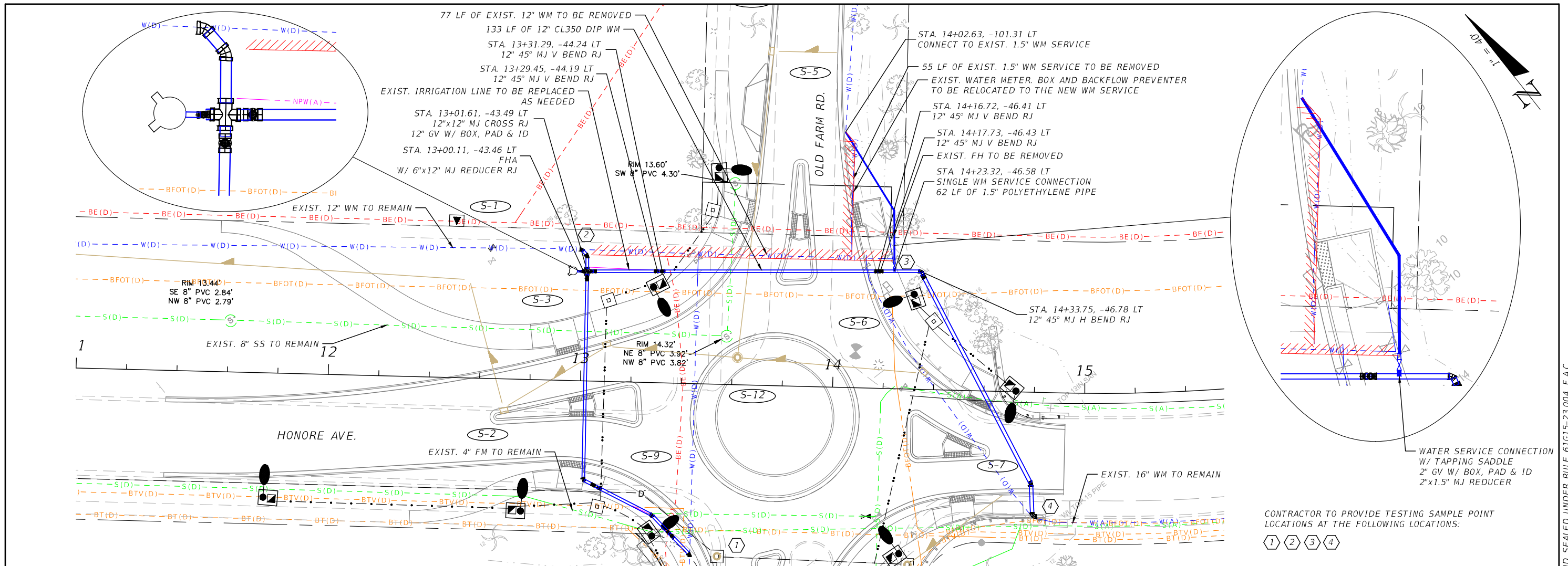
DANIEL M. CRAIG, P.E.
P.E. LICENSE NUMBER 38590
1821 VICTORIA AVENUE
FORT MYERS, FLORIDA, 33901
(239) 347-5512



INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD
UTILITY RELOCATIONS

SHEET NO.
U-3

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 1821 VICTORIA AVENUE
 FORT MYERS, FLORIDA, 33901
 (239) 347-5512

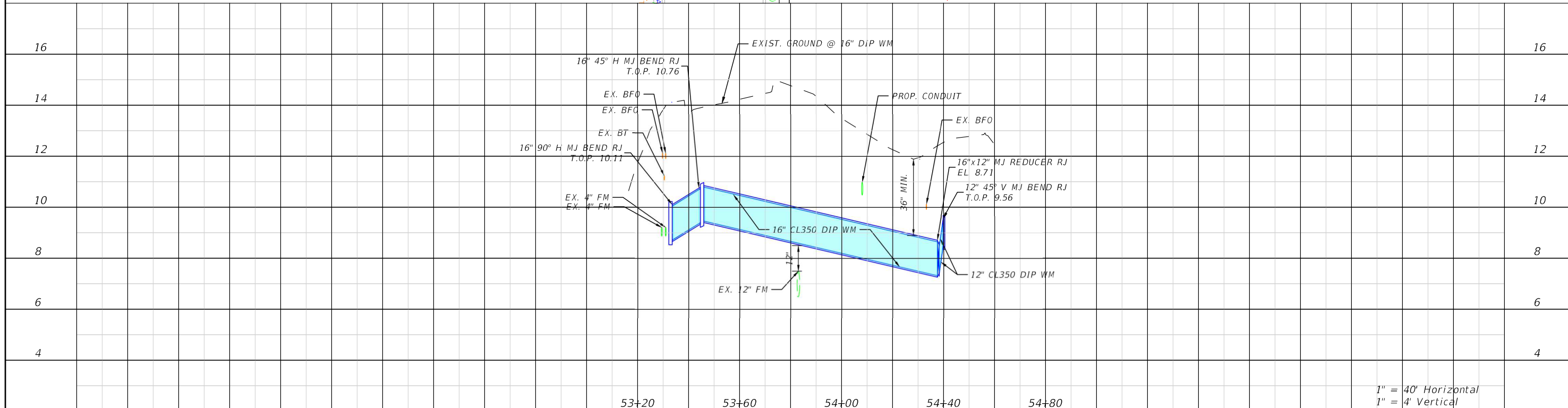
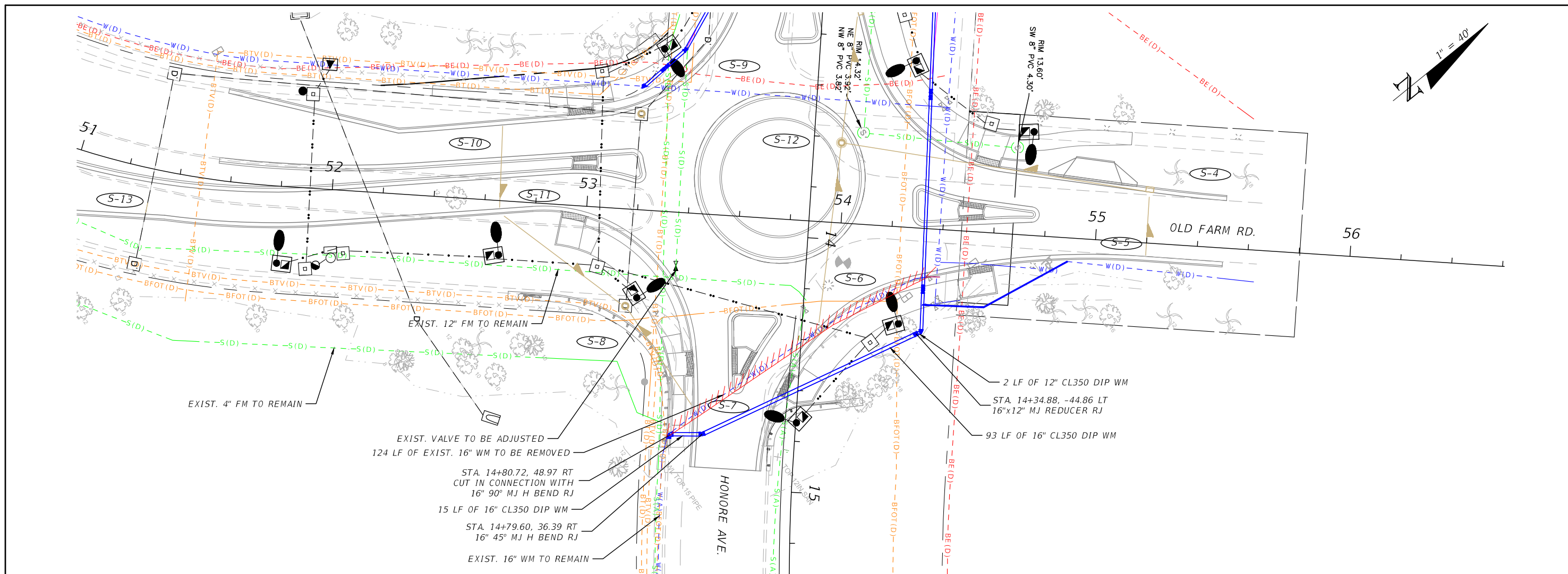


INTERSECTION IMPROVEMENTS FOR
 HONORE AVENUE AT OLD FARM ROAD

UTILITY RELOCATIONS

SHEET NO.
 U-4

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



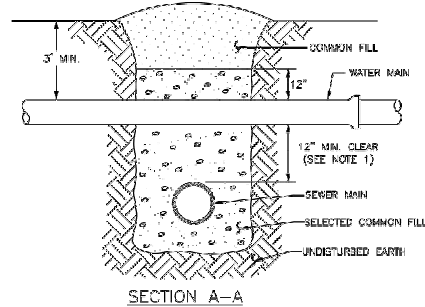
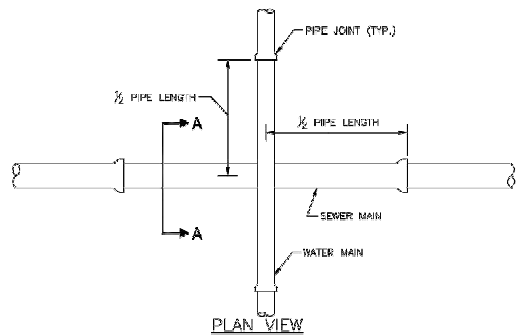
DANIEL M. CRAIG, P.E.
 P.E. LICENSE NUMBER 38590
 1821 VICTORIA AVENUE
 FORT MYERS, FLORIDA, 33901
 (239) 347-5512



INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD		SHEET NO. U-5
UTILITY RELOCATIONS		

1" = 40' Horizontal
 1" = 4' Vertical

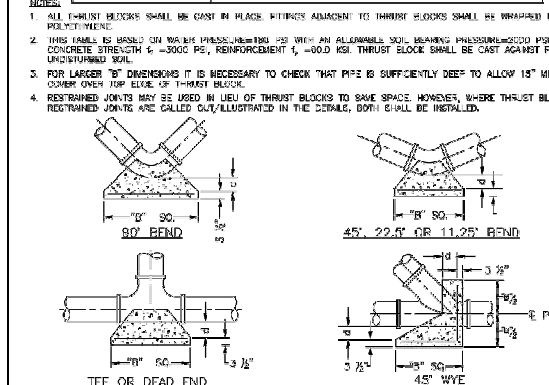
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- NOTES:
- CLEARANCE MAY BE REDUCED TO 6" FOR GRASSY SEWER WHERE WATER MAIN IS DUCTILE IRON.
 - PIPE SECTIONS SHALL BE FULL LENGTH AND SHALL BE ADJUSTED HORIZONTALLY, SO THAT THE CROSSING IS AT EACH PIPE SECTION'S MIDPOINT REGARDLESS OF THE VERTICAL CLEARANCE.

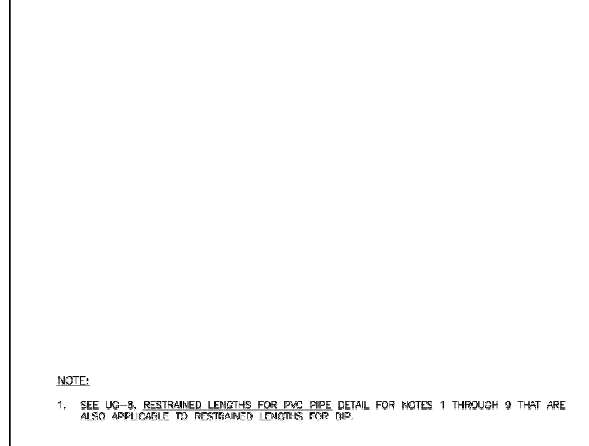
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL NEW WATER & SEWER LINE CROSSING	UG-2
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

PIPE SIZE (IN.)	THURST BLOCK DIMENSIONS R, R ₁ , & d inches				DEAD END & TEE				45° WYE			
	R	d	R ₁	d	R	d	R ₁	d	R	d	R ₁	d
4	1.5	3/8	1.1	3/8	0.8	3/8	0.5	3/8	1.3	3/8	1.1	3/8
6	2.2	5/8	1.6	5/8	1.2	5/8	0.8	5/8	1.9	5/8	1.6	5/8
8	2.8	7/8	2.1	7/8	1.7	7/8	1.1	7/8	2.4	7/8	2.0	7/8
10	3.5	1 1/8	2.8	1 1/8	2.2	1 1/8	1.4	1 1/8	3.1	1 1/8	2.6	1 1/8
12	4.2	1 3/8	3.1	1 3/8	2.5	1 3/8	1.6	1 3/8	3.8	1 3/8	3.0	1 3/8
14	4.8	1 7/8	3.6	1 7/8	2.8	1 7/8	1.8	1 7/8	4.1	1 7/8	3.4	1 7/8
16	5.5	2 1/8	4.1	2 1/8	3.2	2 1/8	2.1	2 1/8	4.7	2 1/8	3.9	2 1/8
18	6.2	2 3/8	4.6	2 3/8	3.5	2 3/8	2.3	2 3/8	5.2	2 3/8	4.4	2 3/8
20	6.9	2 7/8	5.0	2 7/8	3.8	2 7/8	2.5	2 7/8	5.8	2 7/8	4.8	2 7/8
24	8.2	3 3/8	6.0	3 3/8	4.3	3 3/8	2.9	3 3/8	6.9	3 3/8	5.8	3 3/8
30	10.1	4 1/4	7.5	4 1/4	5.3	4 1/4	3.6	4 1/4	8.5	4 1/4	7.2	4 1/4
36	12.1	5 1/4	8.9	5 1/4	6.4	5 1/4	4.5	5 1/4	10.2	5 1/4	8.6	5 1/4

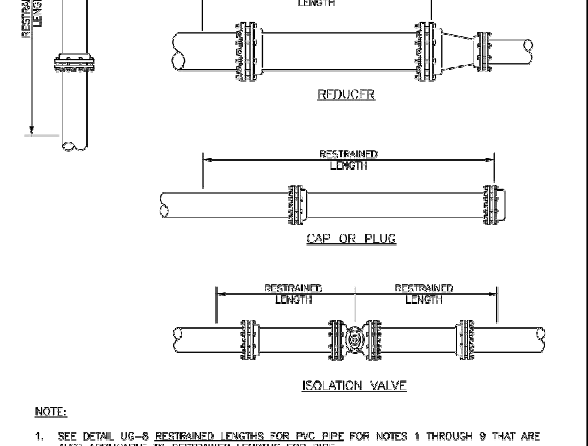
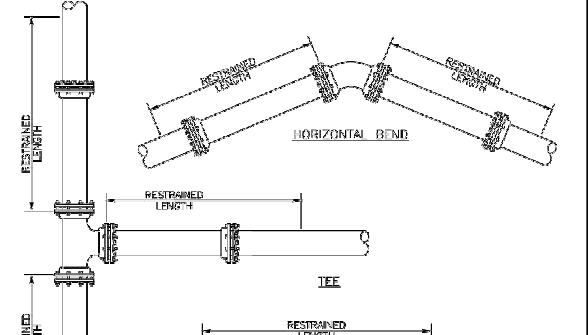


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CONCRETE THRUST BLOCKS	UG-7
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

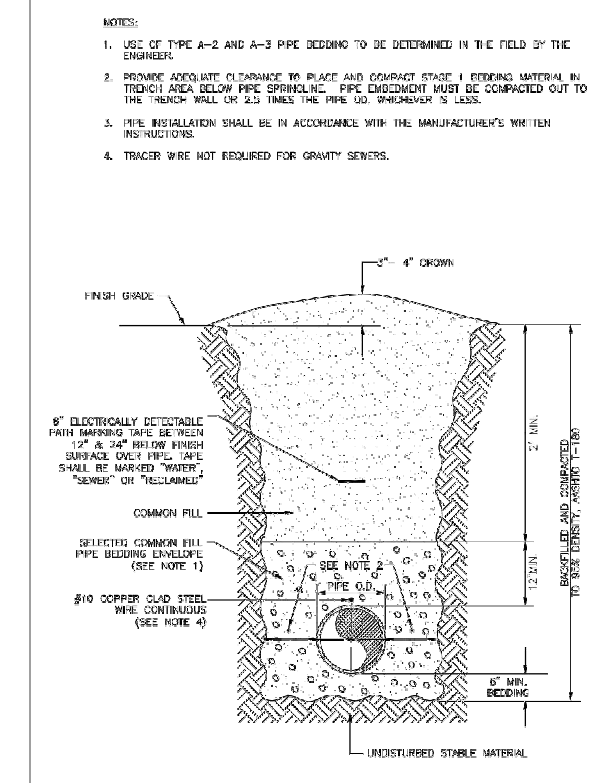
MAIN PIPE SIZE	HORIZ. BENDS	45°	90°	TEES				REDUCERS				PLUGS & VALVES
				SIZE	LENGTH	SIZE	LENGTH					
36	142	39	20	36	36	36	36	36	36	36	36	453
30	124	33	18	30	30	30	30	30	30	30	30	391
24	106	27	15	24	24	24	24	24	24	24	24	327
20	92	23	12	20	20	20	20	20	20	20	20	280
16	77	19	10	16	16	16	16	16	16	16	16	231
12	61	15	8	12	12	12	12	12	12	12	12	181
10	52	12	6	10	10	10	10	10	10	10	10	153
8	44	10	5	8	8	8	8	8	8	8	8	126
6	34	7	4	6	6	6	6	6	6	6	6	99
4	24	5	3	4	4	4	4	4	4	4	4	69



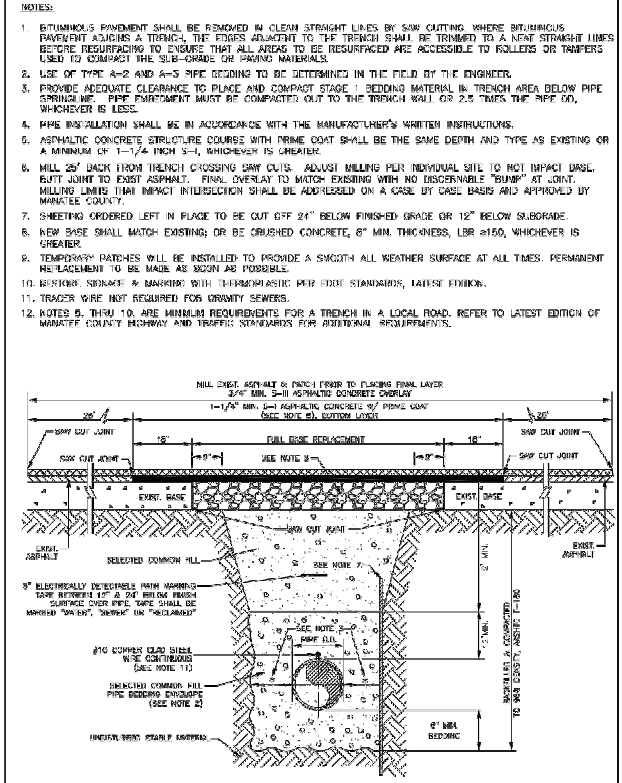
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR DIP	UG-9
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



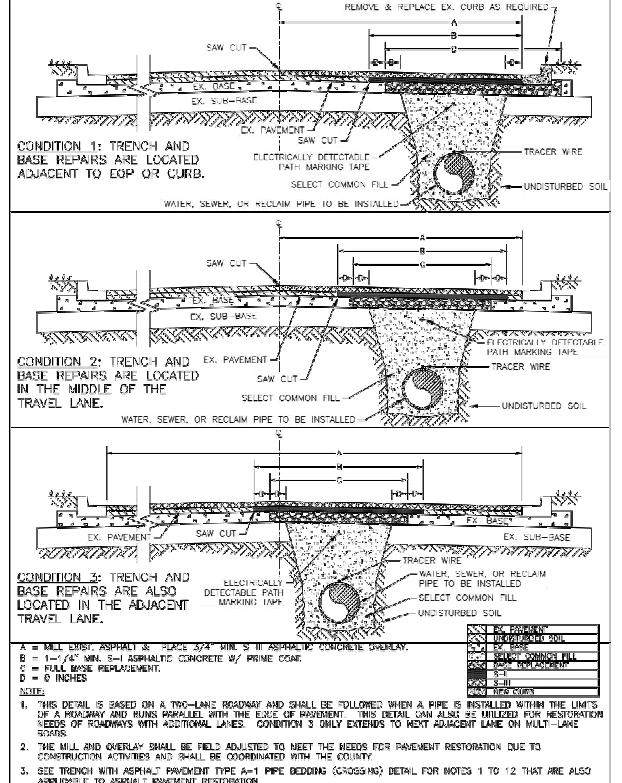
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR PIPE	UG-10
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



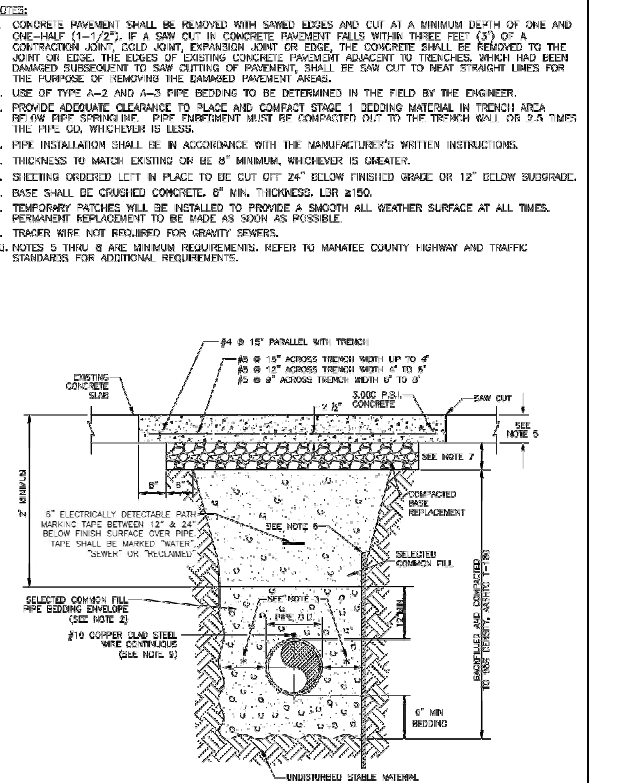
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (LONGITUDINAL)	UG-12B
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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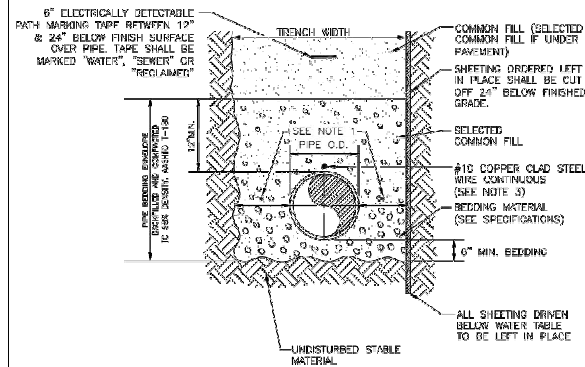
INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

STANDARD UTILITY DETAILS

SHEET NO.
U-6

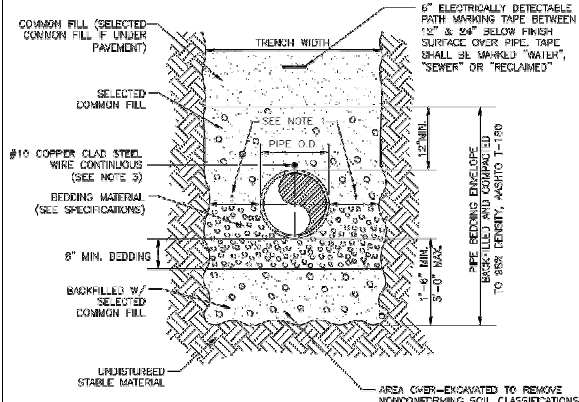
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- NOTES:**
1. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMPLOYMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 2. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 3. TRACER WIRE NOT REQUIRED FOR GRADITY SERVICES.

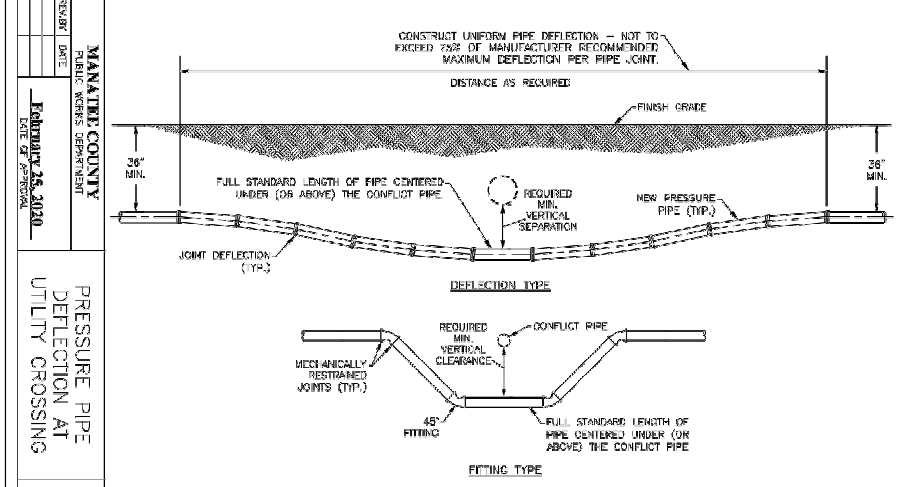


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-2 PIPE BEDDING	UG-15
REVISED	DATE	February 25, 2020	DATE OF APPROVAL

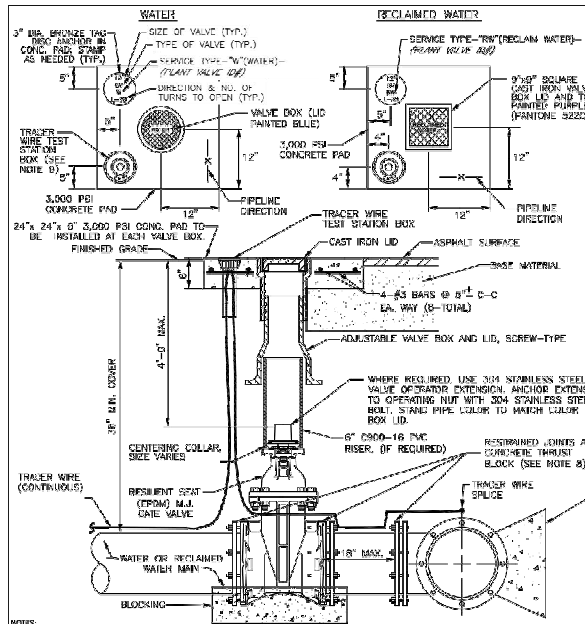
- NOTES:**
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 2. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 3. TRACER WIRE NOT REQUIRED FOR GRADITY SERVICES.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REVISED	DATE	February 25, 2020	DATE OF APPROVAL



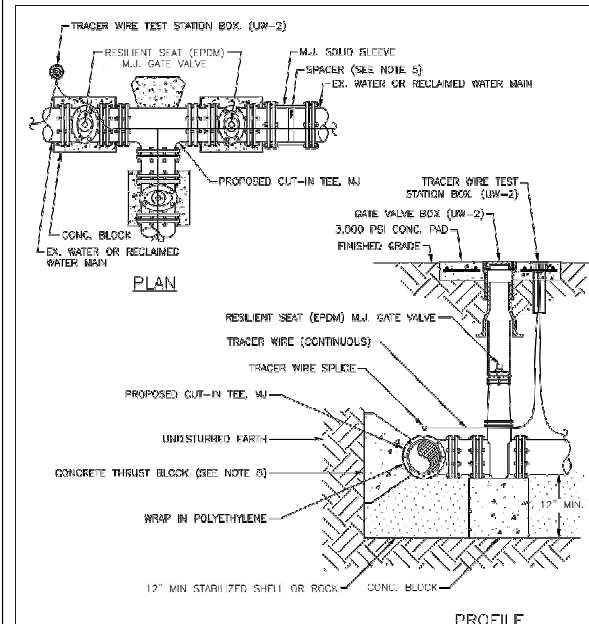
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		PRESSURE PIPE DEFLECTION AT UTILITY CROSSING	UG-18
REVISED	DATE	February 25, 2020	DATE OF APPROVAL



NOTES:

1. "TOP" OF "TOP" TO BE IMPROVED INTO THE NEARBY PAVED DRIVEWAY AREA WITH 1/2" TO 1" THICK, IF NO CURB, INSTALL A BLUE CURB WITH "TOP" ON PURPLE SIDE WITH "WAY" USING A 1/2" x 1" GALVANIZED SIDE. SCREW IN THE EDGE OF PAVEMENT WITH 1/2" DIA. ANCHORS FROM THE SIDE TO THE DRIVE.
2. ALL DISTINGUISHING VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. VALVE BOXES NOT BE PLACED IN UNIMPROVED TRENCH, CUTS, OR CUTS.
4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
5. MINIMUM ELEVATION TO BE INDICATED AND BEING PLACED OPPOSITE PAD.
6. TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 500 FEET OF A WATER SERVICE METER. IN OTHER AREAS OF THE PROPERTY THIS AND A TRENCH WIRE WILL BE REQUIRED.
7. OPERATE TRACER WIRE AS USED. RESPONSIBLE JOINS MUST BE EXTENDED FROM THE FULL LENGTH SPECIFIED FOR "TESTS".
8. USE 3/4" DIA. TRACER WIRE FOR WATERS. WATER SERVICE WIRE MUST BE IN A TRENCH OR PAVEMENT AREA. TRACER WIRE MUST BE PLACED IN A TRENCH OR PAVEMENT AREA. TRACER WIRE MUST BE IN A TRENCH OR PAVEMENT AREA. TRACER WIRE MUST BE IN A TRENCH OR PAVEMENT AREA.
9. THE MANUFACTURER SHALL HAVE A "TRACER WIRE" AND WHEN WATER IS INTRODUCED WITHIN THE COUNTY TREATMENT PLANT LATER, THE PLATE VALVE SHOULD BE OPENED AND THE CONSTRUCTION PLANS BE REVISIT APPROVED.
10. REFER TO SECTION 1.1.1.0 FOR DETAILS ON THE WIRE BEING USED BY MANUFACTURER. FOR FURTHER DETAILS.

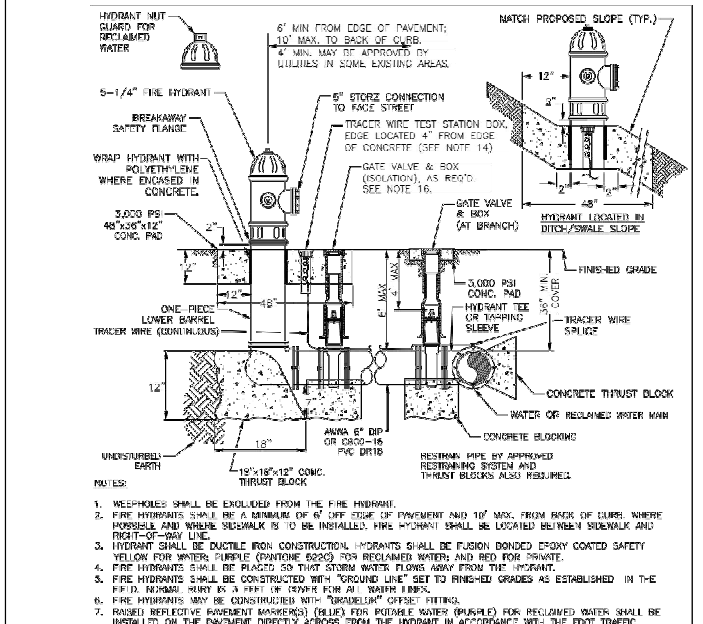
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, LID AND TAG	UW-2
REVISED	DATE	February 25, 2020	DATE OF APPROVAL



NOTES:

1. ALL FITTINGS TO BE PROVIDED WITH 20 MIL POLYETHYLENE WRAP AT JOINTS AND ENDS.
2. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
3. TRACER WIRE SHALL BE INSTALLED ON ALL SIDES OF TEE AND CROSSING UNLESS INDICATED OTHERWISE ON WHAT IS TO BE TESTED.
4. RESTRAINED JOINTS MUST EXTEND FROM TEE FULL LENGTH SPECIFIED FOR VALVES.
5. SPACER IS REQUIRED IF A GATE VALVE SPACER NOT TO EXCEED OVER SIZE OF SLEEVE WIDTH.
6. IN ALL EXISTING CONCRETE PIPE (AC) APPLICATIONS TWO COUPLINGS ARE REQUIRED. ALL FITTINGS INCLUDING COUPLINGS SHALL BE SUPPORTED WITH CONCRETE BLOTTING TO PREVENT SETTLEMENT.
7. ALL EXISTING RESTRAINTS SHALL BE MODIFIED AND OR RE-INSTALLED AS NECESSARY, TO MEET THE RESTRAINT REQUIREMENTS FOR VALVES.
8. WRAP THURST BLOCK NOT NEEDED, RESTRAINED JOINTS MUST HAVE FULL LENGTH FROM TEE FULL LENGTH SPECIFIED FOR "TESTS".

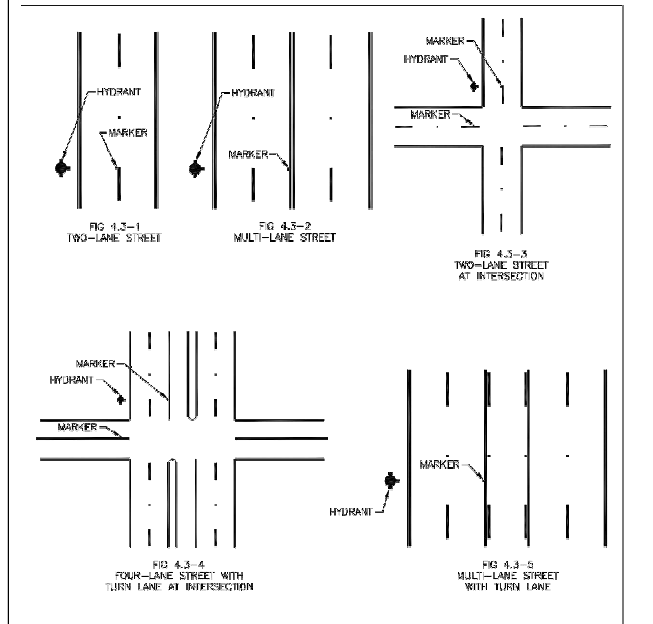
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CUT-IN TEE	UW-4
REVISED	DATE	February 25, 2020	DATE OF APPROVAL



NOTES:

1. WELPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6" OFF TOP OF PAVEMENT AND 10" MAX. FROM BACK OF CURB, WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND CURB OR 2'-0" FROM CURB.
3. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER, PURPLE (PAINTONE 6224) FOR RECLAIMED WATER, AND RED FOR PRIVATE.
4. FIRE HYDRANTS SHALL BE PLACED SO THAT STRONG WATER FLOWS AWAY FROM THE HYDRANT.
5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "ROUND LINE" SET TO FINISHED GRADE AS ESTABLISHED IN THE FIELD. HEIGHT MUST BE A MINIMUM OF 4'-0" FROM FINISHED GRADE.
6. FIRE HYDRANTS MUST BE CONSTRUCTED WITH "BROADWAY" GATE VALVES.
7. RAISED REFLECTIVE HOUSING MARKERS (MATERIALS FOR RECLAIMED WATER (PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED ON THE PAVSUBST DIRECTLY ACROSS FROM THE HYDRANT IN ACCORDANCE WITH THE FOOT TRAFFIC ENGINEERING MANUAL, CHAPTER 4, SECTION 4.2 OR MOST CURRENT EDITION.
8. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
9. FIRE HYDRANT VALVE SHALL BE PROTECTED DIRECTLY TO TOP.
10. FIRE VALVES SHALL BE LOCATED AT HYDRANT TESTS.
11. HYDRANTS SHALL BE LOCATED ON SWAMP SIDE OF ROAD AS WATER OR RECLAIMED MAIN.
12. THERE MUST BE A 2' CLEARANCE OF 1/2" DIA. HOLE FROM FRONT AND BOTH SIDES AND FROM FEET TO THE REAR OF THE HYDRANT TO ALLOW GRADE OBSERVATIONS INCLUDING POSTS, FENCES, TREES, ETC. PER THE FLORIDA FIRE PREVENTION CODE.
13. SEE STANDARD DETAIL UG 2 GATE VALVE, BOX, LID AND TAG.
14. SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
15. IF A HYDRANT IS LOCATED ON THE SLOPE OF A DITCH OR SHALE, THE CONCRETE PAD SHALL CONFORM TO THE FINISH GRADE/SLOPE. THE CONCRETE PAD SHALL BE LEVEL 2-INCHES BEHIND & IN FRONT OF THE HYDRANT.
16. AN OBSTRUCTION OF THE COUNTY AN ADDITIONAL ISOLATION GATE VALVE SHALL BE ADDED, WHEN A PHYSICAL BARRIER IS PRESENT, ALL ROADWAY TYPES, SHALL BE PLACED BETWEEN THE BROADWAY GATE VALVE AND THE HYDRANT.
17. SEE SECTION 1.1.1.0 HYDRANTS IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL, FOR FURTHER DETAILS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	UW-5
REVISED	DATE	February 25, 2020	DATE OF APPROVAL



NOTES:

1. TWO-WAY STREETS OR ROADS: MARKER SHOULD BE PLACED 6 INCHES FROM EDGE OF PAINTED CENTERLINE ON THE SIDE NEAREST THE FIRE HYDRANT. IF THE STREET HAS NO CENTERLINE, THE MARKER SHOULD BE PLACED 6 INCHES FROM APPROXIMATE CENTERLINE OF THE ROADWAY ON THE SIDE NEAREST THE HYDRANT. SEE FIGURE 4.3-1, 4.3-2, AND 4.3-3.
2. STREETS WITH LEFT TURN LANE: AT INTERSECTION: MARKER SHOULD BE PLACED 3 INCHES FROM EDGE OF PAINTED WHITE CHANGELINE LANE OF THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-4.
3. STREETS WITH CONTINUOUS TWO-WAY TURN LANE: MARKER SHOULD BE PLACED 3 INCHES FROM THE EDGE OF THE PAINTED YELLOW BARRIER LINE ON THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-5.
4. MARKER SHALL BE BLUE/BLUE BASED RETROREFLECTIVE PAVEMENT MARKER.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		HYDRANT LOCATION MARKERS - BLUE (RPMs)	UW-6
REVISED	DATE	February 25, 2020	DATE OF APPROVAL

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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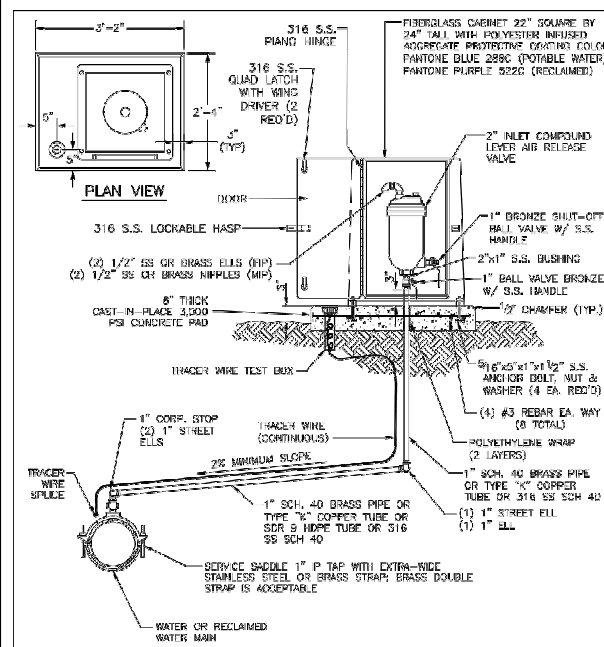
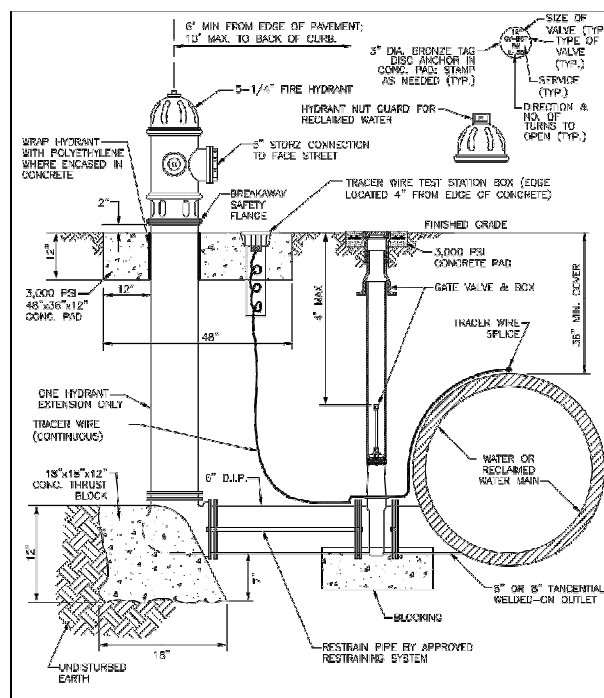
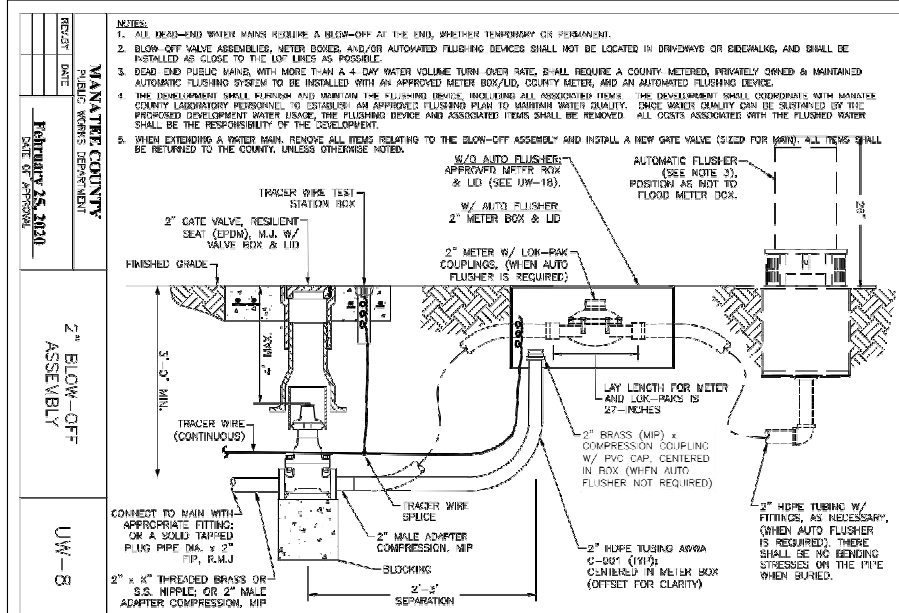


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6105060

INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

STANDARD UTILITY DETAILS

SHEET NO. U-7



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

FIRE HYDRANT BLOW-OFF ASSEMBLY FOR 12" MAINS AND LARGER

REV. BY: _____ DATE: _____

February 25, 2020

UW-9

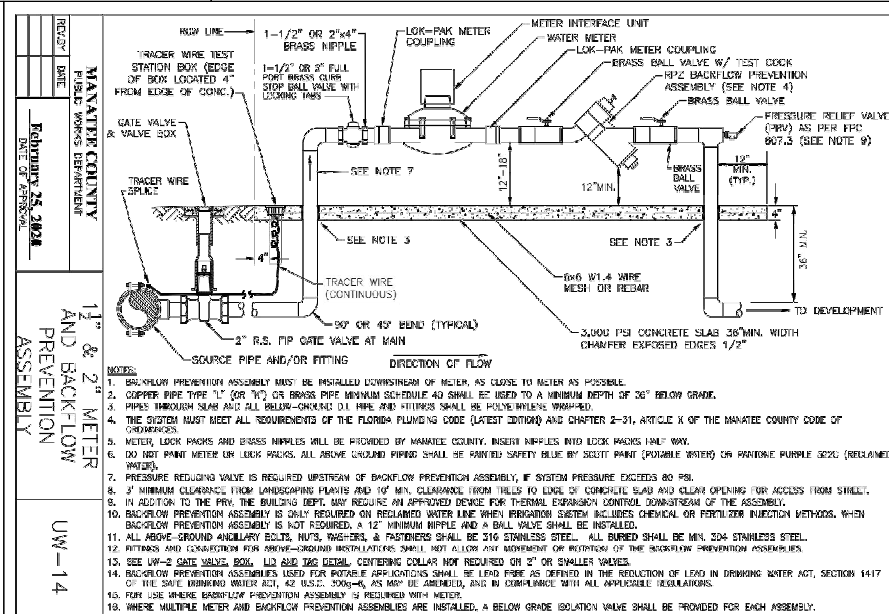
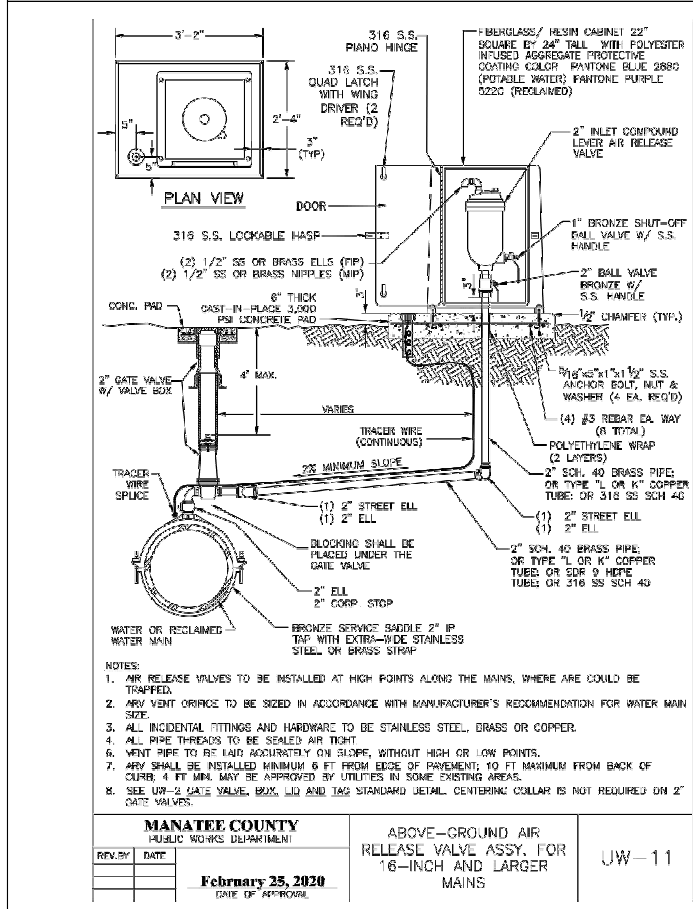
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR 12-INCH AND SMALLER WATER MAINS

REV. BY: _____ DATE: _____

February 25, 2020

UW-10



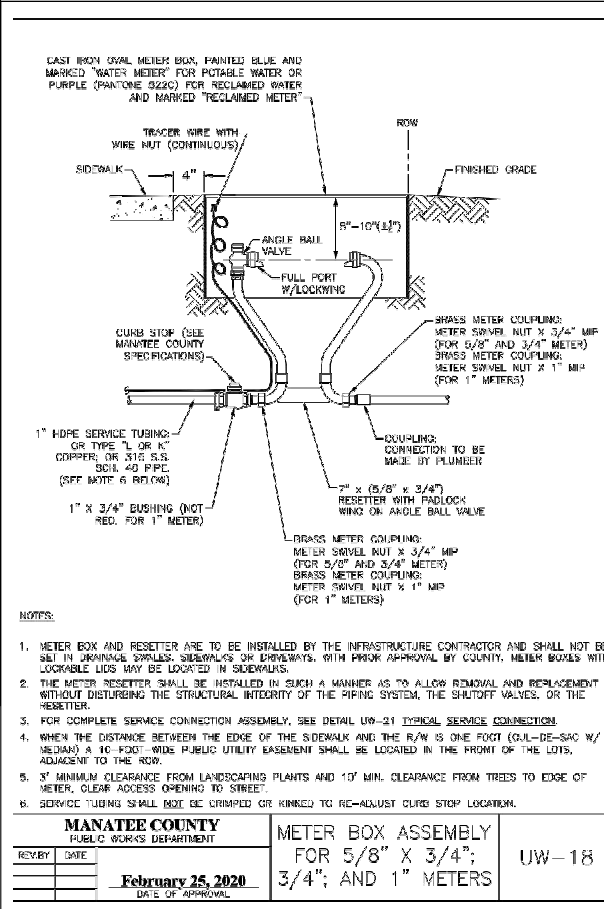
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

1 1/2" & 2" METER AND BACKFLOW PREVENTION ASSEMBLY

REV. BY: _____ DATE: _____

February 25, 2020

UW-14



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

METER BOX ASSEMBLY FOR 5/8" X 3/4", 3/4", AND 1" METERS

REV. BY: _____ DATE: _____

February 25, 2020

UW-18

REVISIONS			
NO.	DESCRIPTION	DATE	BY



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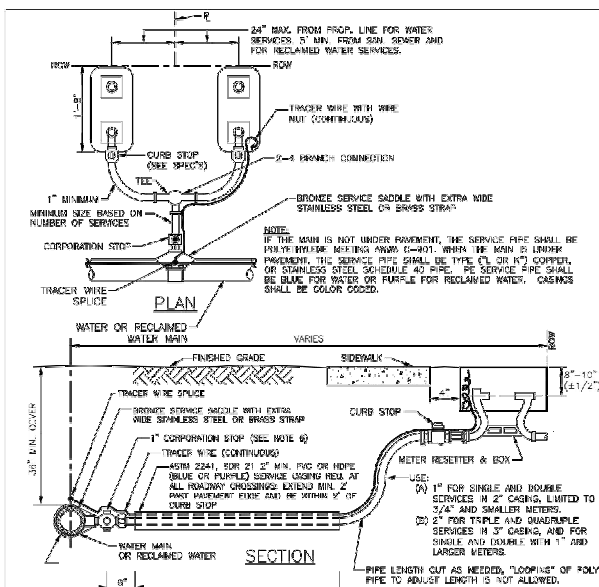


MANATEE COUNTY PUBLIC WORKS
COUNTY PROJECT NO: 6105060

INTERSECTION IMPROVEMENTS FOR HONORE AVENUE AT OLD FARM ROAD

STANDARD UTILITY DETAILS

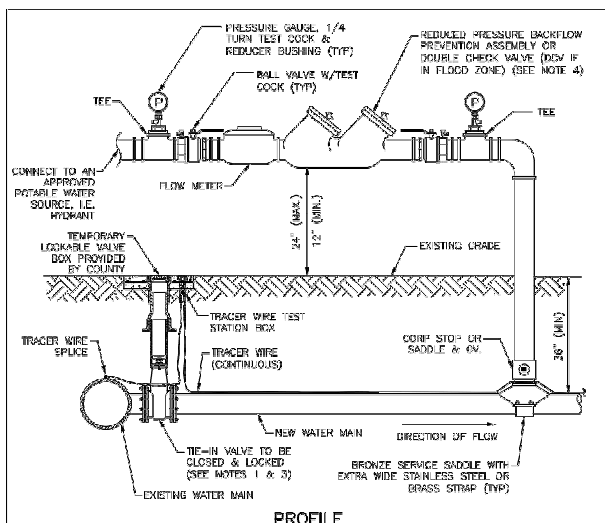
SHEET NO.
U-8



NOTES:

- ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVALS OR WITHIN 2'-0" FROM END OF SPREAD ENDS.
- METER BOXES & RESETTERS ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN UNPAVED SPACES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
- "TAP" AND "TAP" TO BE IMPRESSED INTO THE EXISTING PAVEMENT USING A CORNER OR A CORNER DRUM OPERATED IN ACCORDANCE WITH THE MANATEE COUNTY PUBLIC WORKS DEPARTMENT. THE TAPPING SHALL BE PERFORMED BY THE CONTRACTOR. THE TAPPING SHALL BE PERFORMED BY THE CONTRACTOR. THE TAPPING SHALL BE PERFORMED BY THE CONTRACTOR.
- COLOR CODED TRACER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED MAIN AND ALL SERVICES SERVICE PIPE SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN. ON DOUBLE SERVICE, WHEN SECOND METER IS OVER 8 FT APART, TWO TRACER WIRES SHALL BE INSTALLED, ONE FOR EACH METER.
- WATER AND RECLAIMED WATER SERVICE LINES TO BE 2" MINIMUM FROM SERVICE PIPES.
- FOR 2" SERVICES REPLACE CORPORATION STOP WITH 2" RESILIENT REDUCE FOR GATE VALVE W/SPUR, LID & DISC.
- WHEN THE DISTANCE BETWEEN THE EDGE OF THE MAIN AND THE FRONT (DISC) END (SEE W/SPUR) IS 10'-0" TO 15'-0" WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
- TEMPORARY RESIDENTIAL USE CAN BE PROVIDED BY CONTACTING THE UTILITY CUSTOMER SERVICE. SEE DETAIL UW-19.
- SERVICE TURNS SHALL NOT BE CRIMPED OR WINKED TO RE-ADJUST CURB STOP LOCATION.

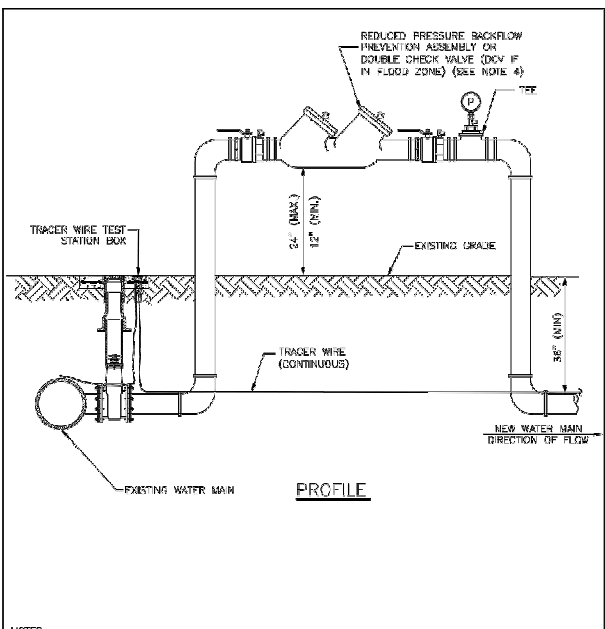
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL SERVICE CONNECTION	UW-21
REVBY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



NOTES:

- FOR TIE-IN VALVE, SEE DETAIL UW-3 FOR TAPPING SLEEVE VALVE AND UW-2 FOR GATE VALVE.
- CORPORATION STOP CONNECTIONS TO WATER MAINS SHALL BE AT A SUFFICIENT DISTANCE FROM NEW TAPPING SLEEVE & VALVE (TIE-IN VALVE). ALL CORPORATION STOP TAPS SHALL BE PLACED NO CLOSER THAN 20' OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP DIAMETERS (WHICHEVER IS LARGER) FROM THE NEW TIE-IN VALVE (TAPPING VALVE & SLEEVE). SIDE-ON-SIZE TAPS ARE NOT ALLOWED. A CUT-IN TIE SHALL BE USED.
- IF THE EXISTING WATER MAIN IS LOCATED UNDER PAVEMENT OR CLOSE TO THE ROADWAY, BOTH JUMPER CORPORATION STOPS MAY CONNECT TO THE NEW WATER MAIN LOCATED OUTSIDE OF THE PAVEMENT. AN ADDITIONAL GATE VALVE SHALL BE INSTALLED AND THE VALVE MAY BE LOCATED AT THE ROW LINE. PIPING AND APPURTENANCES BETWEEN THE EXISTING MAIN AND ISOLATION VALVE AND JUMPER SHALL BE DISINFECTED BY SPRAYING OR SWABBING.
- BACKFLOW PREVENTION ASSEMBLY SHALL BE STRUCTURALLY SUPPORTED.
- THE TIE-IN VALVE SHALL REMAIN CLOSED AND THE LOCKABLE VALVE BOX SHALL BE LOCKED BY MANATEE COUNTY. THE TIE-IN VALVE SHALL REMAIN CLOSED AND LOCKED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY THE USER AND ALL OTHER PERTINENT AGENCIES. AFTER CLEARANCE IS OBTAINED, THE LOCKABLE VALVE BOX SHALL BE REMOVED, RETURNED TO THE COUNTY, AND REPLACED WITH A STANDARD VALVE BOX.
- IN THE EVENT THE LOCKED TIE-IN VALVE MUST BE OPENED, THE VALVE SHALL ONLY BE OPERATED BY MANATEE COUNTY PERSONNEL.
- SEE DETAIL UW-24 FOR ADDITIONAL JUMPER CONNECTION NOTES.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TEMPORARY JUMPER CONNECTION-HYDRANT AVAILABLE	UW-23A
REVBY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



NOTES:

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- BACKFLOW PREVENTION ASSEMBLY SHALL BE STRUCTURALLY SUPPORTED.
- SEE DETAIL UW-24 FOR ADDITIONAL JUMPER CONNECTION NOTES.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TEMPORARY JUMPER CONNECTION - NO HYDRANT AVAILABLE	UW-23B
REVBY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

1. A 2-INCH MINIMUM TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE POTABLE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS WITH THE FOLLOWING EXCEPTIONS:

- PROJECTS THAT INCLUDE A PERMANENT BACKFLOW PREVENTER AT THE RIGHT-OF-WAY WHICH IS ADJACENT TO THE EXISTING WATER MAIN.
- PROJECTS THAT INCLUDE NEW WATER MAINS THAT ARE LESS THAN OR EQUAL TO 18 LINEAR FEET IN LENGTH OR
- OTHER PROPOSED CASES THAT ARE APPROVED BY MANATEE COUNTY AND THE CONSTRUCTION DRAWINGS SPECIFICALLY STATE THAT A TEMPORARY JUMPER CONNECTION IS NOT REQUIRED.

2. A TEMPORARY JUMPER SHALL BE USED AND BE CONNECTED TO AN APPROVED POTABLE WATER SOURCE (E.G., EXISTING FIRE HYDRANT, EXISTING MAIN, EXISTING SERVICE TAP OR TANK TRUCK, ETC.) AS SHOWN IN THE STANDARD TEMPORARY JUMPER DETAIL UW-23A OR UW-23B.

3. A TEMPORARY JUMPER SHALL BE USED FOR FILLING, FLUSHING AND FOR DISINFECTION OF ANY NEW MAIN OF ANY SIZE. THE TEMPORARY JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER THE FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) HAS BEEN OBTAINED.

4. THE LOCATION AND ORIENTATION OF TEMPORARY JUMPERS ASSOCIATED WITH CONNECTIONS TO EXISTING WATER MAINS THAT ARE LOCATED UNDER THE ROADWAY PAVEMENT SHALL BE APPROVED ON A CASE-BY-CASE BASIS.

5. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C900, LATEST EDITION, UNLESS APPROVED OTHERWISE. THE TAPPING SLEEVE AND EXTERIOR OF THE EXISTING MAIN TO BE TAPPED PIPING WITHIN THE JUMPER AND NEW PIPING SHOWN ON STANDARD TEMPORARY JUMPER DETAIL UW-23A OR UW-23B SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION 4.6 OF AWWA C900.

6. THE JUMPER SHALL INCLUDE A FLOW METER TO ENSURE THAT THE FLOW FROM THE SUPPLY SOURCE IS AT A CONSTANT MEASURED RATE WHILE CIRCULATING THE NEW MAIN. THE CHLORINE CONCENTRATION SHALL BE MEASURED AT REGULAR INTERVALS TO ENSURE THAT IT IS FED AT A CONSTANT RATE OF NOT LESS THAN 25 MILLIGRAMS PER LITER (MG/L) OF FREE CHLORINE.

7. THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS CONTINUOUSLY AFTER DISINFECTION AND UNTIL CLEARANCE LETTER IS OBTAINED.

8. ALL TEMPORARY BACKFLOW PREVENTION ASSEMBLY OR "JUMPERS" UTILIZED DURING PIPELINE CONSTRUCTION MUST SHOW IDENTIFICATION THAT THEY HAVE BEEN TESTED ANNUALLY AND PASSED ACCORDING TO THE FLORIDA BUILDING CODE, PLUMBING SECTION, CHAPTER 5, SECTION 510.9.1, 519.2, CHAPTER 6, SECTION 606, AND RESOLUTION R87-125. ANNUAL CERTIFICATION MUST BE VALID AT TIME OF INSTALLATION AND PROVIDED TO THE MANATEE COUNTY INSPECTOR UPON REQUEST.

9. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION ASSEMBLY, FLOW METER, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. TEMPORARY JUMPER SIZE DEPENDS ON THE SITUATION. JUMPERS LARGER THAN 2-INCHES MAY BE USED FOR FLUSHING PURPOSES OR IF PARTIAL FINE PROTECTION IS REQUIRED DURING INITIAL CONSTRUCTION, AS DETERMINED BY THE ENGINEER OF RECORD OR FIRE DEPARTMENT.

11. PRIOR TO REMOVAL OF THE TEMPORARY JUMPER, THE NEWLY-CONSTRUCTED WATER SYSTEM SHALL HAVE RECORDED CLEARANCE FROM THE USER.

12. AFTER RECEIPT OF CLEARANCE FOR USE BY FDEP, MANATEE COUNTY, AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION AND COMPLETE THE WATER MAIN. ALL CORPORATION STOPS LEFT-IN-PLACE ARE TO BE CLOSED AND PLUGGED WITH 2-INCH BRASS.

13. IF THE TEMPORARY JUMPER IS LOCATED WITHIN A STANDARD PIPE LENGTH ARRAY FROM THE PROPOSED END AND A SINGLE STANDARD LENGTH OF PIPE IS USED FOR COMPLETING THE CONNECTION, THEN THE COUNTY WILL PERFORM A VISUAL INSPECTION AND A SEPARATE HYDROSTATIC TEST MAY NOT BE REQUIRED.

14. IF MULTIPLE LENGTHS OF PIPES ARE USED TO COMPLETE THE CONNECTION, THEN A SEPARATE HYDROSTATIC TEST WILL BE REQUIRED. THE HYDROSTATIC TEST SHALL BE PERFORMED BETWEEN THE PROPOSED TIE-IN VALVE AND THE FIRST DOWNSTREAM VALVE FROM THE TEMPORARY JUMPER LOCATION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TEMPORARY JUMPER CONNECTION NOTES	UW-24
REVBY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

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INTERSECTION IMPROVEMENTS FOR
HONORE AVENUE AT OLD FARM ROAD

STANDARD UTILITY DETAILS

SHEET NO.
U-9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.