STATE OF FLORIDA COUNTY OF MANATEE

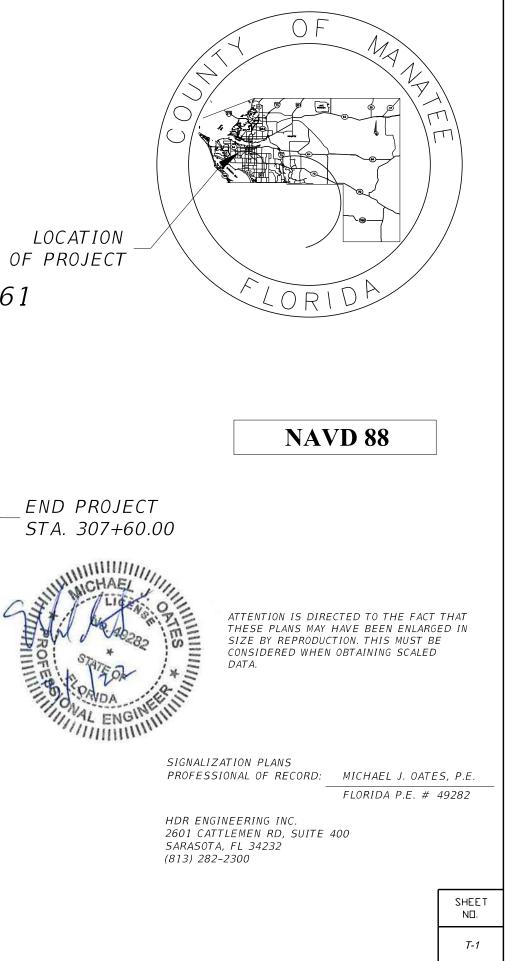
PROPOSED SIGNALIZATION PLANS FOR 43RD STREET WEST RIGHT TURN LANE NORTH OF CORTEZ ROAD

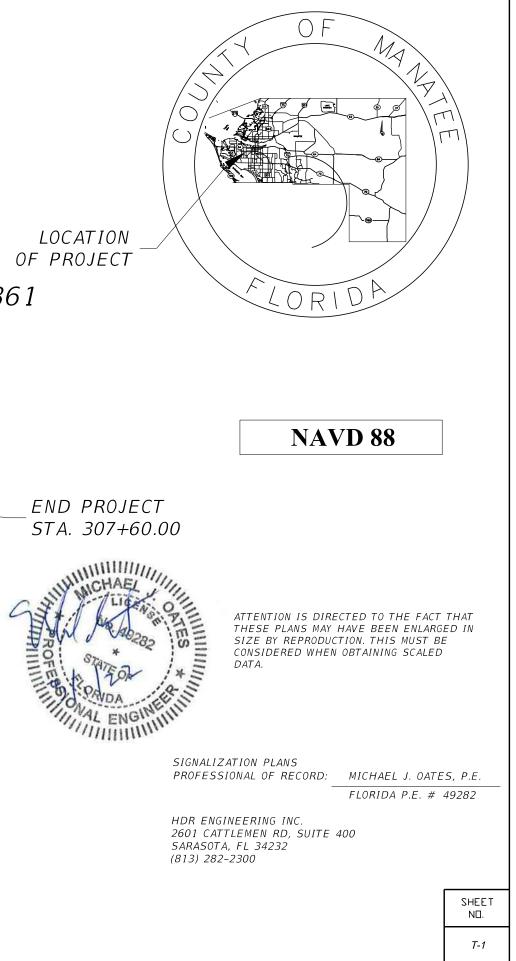
MANATEE COUNTY PROJECT No: 307-6076861 FPID 437145-1-54-01 (D1) FDOT MILE POST: 5.862

INDEX OF SIGNALIZATION PLANS

SHEET NO. DESCRIPTION

T-1 COVER SHEET TABULATION OF QUANTITIES T-2 T-3 SIGNALIZATION GENERAL NOTES MARCH 2022 T-4 SIGNALIZATION PAY ITEM NOTES T-5 SIGNALIZATION PLAN MAST ARM TABULATION Т-6 ok Cir SIGNING AND PAVEMENT MARKING GENERAL NOTES T-7 T-8 - T-9 SIGNING AND PAVEMENT MARKING PLANS T - 10LIGHTING PLAN BEGIN PROJECT *STA. 301+34.00*









11:57:25 AM

43rd Ave W

Cortez Rd-W

Wildewood

Plaza

N.T.S

							Т	ABULA	TION	OF	QUA	NTITI	ES						
PAY													SHEET NUMBERS 8 T-9 T-10 FINAL PLAN FINAL PLAN FINAL PLAN						
ITEM NO.		DESC	RIPTION					UNIT	1	- 5		- 8		-					
NO.											PLAN	FINAL	PLAN	FINAL			PLAN	FINAL	l
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN	TRENCH						LF	60						25				i
632-7-1	SIGNAL CABLE - REPAIR/REPLACE/OTHE	R, FURNISH	& INSTALL					PI	1										ĺ
635-2-11	PULL & SPLICE BOX, F&I, 17" x 30"	COVER SIZ	E					EA	1						1				ĺ
								54											İ
646-1-40	ALUMINUM SIGNALS POLE, RELOCATE							EA	2										ĺ
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH	& INSTALL	ALUMINUM,	3 SECTION	, 1 WAY			AS	4										l
650-1-16 650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH VEHICULAR TRAFFIC SIGNAL, FURNISH	& INSTALL	ALUMINUM,	5 SECTION	CLUSTER,	1 WAY		AS	1		·								ĺ
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE-							AS	6										ĺ
660-3-11	VEHICLE DETECTION SYSTEM- MICROWA	VE. EURNIS	H & INSTALI	CABINET	EQUIPMENT			EA	1										ĺ
660-3-12	VEHICLE DETECTION SYSTEM- MICROWA	VE, FURNIS	H & INSTALL	, ABOVE G	ROUND EQUI	PMENT		EA	2										ĺ
660-4-42	VEHICLE DETECTION SYSTEM- VIDEO,	RELOCATE A	BOVE GROUND	EQUIPMEN	r			EA	2					-					Ì
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODI	FY						AS	1										ĺ
				INCTALL	LOAD SWITC	u		EA	ļ,										ĺ
678-1-104	CONTROLLER ACCESSORIES, REPLACE E	XISIING- F	URNISH AND	INSTALL,	LUAD SWITC	п													ĺ
700-1-11	SINGLE POST SIGN, F&I GROUND MOUN	Т, UP ТО 1	2 SF					AS			3		2	2					ł
700-1-50 700-1-60	SINGLE POST SIGN, RELOCATE SINGLE POST SIGN, REMOVE							AS AS						1					ſ
700-1-00	STAGLE FOST STON, REMOVE																		ĺ
700-3-201	SIGN PANEL, FURNISH & INSTALL OVE		T, UP TO 12	? SF				EA	2										Î
700-5-50	INTERNALLY ILLUMINATED SIGN, RELO	LATE													1				ľ
706-1-3	RAISED PAVEMENT MARKER, TYPE B							EA			34								ľ
	(WHITE/RED) (YELLOW/YELLOW)							-			20		32						Ì
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710-90	PAINTED PAVEMENT MARKINGS, FINAL PAINTED PAVEMENT MARKINGS, STANDA	SURFACE	SOLID 6"					LS GM			0.250		0.074	1					i
*	PAINTED PAVEMENT MARKINGS, STANDA	RD, WHITE,	SOLID FOR	CROSSWALK	AND ROUND	ABOUT ,	12"	LF			136								ĺ
*	PAINTED PAVEMENT MARKINGS, STANDA	RD, WHITE,	SOLID FOR	STOP LINE	OR CROSSW	ALK, 24	и	LF GM			52 0.009		0.006						ĺ
*	PAINTED PAVEMENT MARKINGS, STANDA PAINTED PAVEMENT MARKINGS, STANDA	RD, WHITE, RD, WHITE	2-4 DOTTEL	GUIDELIN R SYMBOL (E7 6-10 DO ONIY)	TIED EX	1, 0	EA			4		0.000						ĺ
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	RIGHT THRU										5								ĺ
*	PAINTED PAVEMENT MARKINGS, STANDA							GM			0.156		0.135						1
*	PAINTED PAVEMENT MARKINGS, STANDA	RD, YELLOW	, SOLID, 18	3"				LF			2		35					11/11	ĺ
711-11-123	THERMOPLASTIC, STANDARD, WHITE, S	OLID, 12"	FOR CROSSW	ALK AND RO	UNDABOUT			LF			136						0	" VIC.	ĺ
711-11-125	THERMOPLASTIC, STANDARD, WHITE, S				EXTENSION	6		LF GM			52 0.009		0.006				2	11 .	ĺ
711-11-141 711-11-160	THERMOPLASTIC, STANDARD, WHITE, 2 THERMOPLASTIC, STANDARD, WHITE, M				EXTENSION,	0		EA			4	1	0.000				a l	12	ĺ
711-11-170	THERMOPLASTIC, STANDARD, WHITE, A							EA									1 E	M	ŀ
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	THRU										5						30	:201	ĺ
			500 DI 460					LF					35				-4	e xd	ĺ
711-11-224	THERMOPLASTIC, STANDARD, YELLOW,	SOLID, 18"	FOR DIAGO	VAL OK CHE	VRUN						2						0	1.NA	Ì
711-16-101	THERMOPLASTIC, STANDARD-OTHER SUR							GM			0.250		0.074		·			114	ł
711-16-201	THERMOPLASTIC, STANDARD-OTHER SUR	FACES, YEL	LOW, SOLID	, 6"		_		GM			0.156		0.135						ĺ
715-1-12	LIGHTING CONDUCTORS, F&I, INSULAT							LF							300				ł
715-1-60	LIGHTING CONDUCTORS, REMOVE & DIS	POSE, CONT	RACTOR OWN	5				LF EA							300				ľ
715-4-60 715-500-1	LIGHT POLE COMPLETE, RELOCATE POLE CABLE DISTRIBUTION SYSTEM, F	URNISH ANT	INSTALL (CONVENTION	AL			EA							1				ĺ
	PANTITIES ARE PAID FOR UNDER PAINTED	PAVEMENT	MARKINGS (FINAL SURF	ACE). LUMP	SUM I	TEM NO. 7		THE QUAN	ITITIES	SHOWN A	RE FOR	ONE APP	LICATIO	N: SEE	SPECIFI	CATION 7	10 FOR	1
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GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT THE ENGINEER, IN CONJUNCTION WITH MANATEE COUNTY'S PROJECT MANAGEMENT DIVISION BEFORE STARTING WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, IN CONJUNCTION WITH MANATEE COUNTY'S TRAFFIC ENGINEERING DIVISION (941-749-3502 EXT. 7817), AT LEAST TWO WEEKS BEFORE ANY CABINET MODIFICATIONS ARE TO BE PERFORMED. THE ENGINEER, IN CONJUNCTION WITH MANATEE COUNTY ENGINEERING DIVISION PERSONNEL WILL REVIEW, ASSIST AND PROVIDE TECHNICAL SUPPORT RELEVANT TO ANY FIELD MODIFICATIONS THAT ARE NECESSARY.
- AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, PERMITTEE TO CONTACT THE TRAFFIC SIGNAL INSPECTOR/LIAISON: З.

MANATEE COUNTY PROJECT MANAGEMENT DIVISION MIKE STURM 1022 26TH AVENUE EAST BRADENTON, FLORIDA 34208 PHONE: 941-708-7450 EXT. 7332

ONE WEEK PRIOR TO THE BEGINNING OF THE TRAFFIC SIGNAL INSTALLATION OR TURN ON OF A NEW SIGNAL, THE CONTRACTOR SHALL NOTIFY THE ENGINEER: 4.

MANATEE COUNTY PROJECT MANAGEMENT DIVISION

MIKE STURM 1022 26TH AVENUE EAST BRADENTON, FLORIDA 34208 PHONE: 941-708-7450 EXT. 7332

MANATEE COUNTY TRAFFIC ENGINEERING DIVISION VISHAL KAKKAD 2101 47TH TERRACE EAST BRADENTON, FLORIDA 34203 PHONE: 941-749-3500 EXT. 7812

AT THE COMPLETION OF THE PROJECT PROVIDE AS-BUILT PLANS IN 5 ELECTRONIC FORM (PDF) TO:

FDOT TRAFFIC OPERATIONS RENJAN JOSEPH, P.E., TSM&O ENGINEER BOI N. BROADWAY AVE P.O. BOX 1249 BARTOW, FL 33830-1249 EMAIL: RENJANJOSEPH@DOT.STATE.FL.US PHONE: 963 510 2746 PHONE: 863-519-2746

- DELIVER THREE SETS OF RECORD DRAWINGS, TWO SETS OF IMSA INSPECTION FORMS AND ONE COMPACT DISC OF RECORD DRAWINGS TO MR. AARON BURKETT, THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION MANAGER AT 2904 12TH ST CT E, BRADENTON, FL 34208, RECORD DRAWINGS MUST BE DELIVERED TO THE COUNTY 5 BUSINESS DAYS PROPARTO SCHEDUL NG THE CONAL INSPECTION 6. DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.
- UPON PASSING THE FINAL INSPECTION THE CONTRACTOR SHALL SEND A WRITTEN REQUEST TO THE PROJECT MANAGEMENT DIVISION AND THE TRANSPORTATION DIVISION TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNTY. MANATEE COUNTY WILL RESPOND WITHIN 5 WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILITY. 7
- THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC AT 8. 1-800-432-4770, IN COORDINATION WITH UNDERGROUND AND OVERHEAD UTILITY OWNERS. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.

9. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT USE POLES ARE CALLED FOR.

THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES AT SIGNAL POLES SUCH AS THE INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS, AND SIGNAL POLES

AT LOCATIONS WHERE THE REQUIRED VERTICAL CLEARANCE TO THE POWER LINES CANNOT BE MAINTAINED, A QUALIFIED REPRESENTATIVE FROM THE POWER COMPANY SHALL BE PRESENT DURING ALL WORK UNDER POWER LINES, ANY COST ASSOCIATED WITH THIS SHALL BE INCLUDED IN THE RELATED PAY ITEMS.

- 10. THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF THE HOLE FOR THE POLE FOUNDATION OR CONDUIT RUN WHERE UTILITIES ARE IN CLOSE PROXIMITY.
- 11. THE CONTRACTOR IS TO DE-WATER THE POLE FOUNDATION EXCAVATION IF THE ELEVATION OF WATER IS HIGHER THAN THE ELEVATION OF THE FOUNDATION BASE
- 12. ALL MATERIALS, EQUIPMENT, AND OTHER CONTRACTOR SUPPLIED ITEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE ENGINEER.
- 13. #14 XHHW PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS. AT LEAST 2 FEET OF PULL WIRE SHALL BE ACCESSIBLE AT EACH CONDUIT TERMINATION AND SECURED IN THE PULL BOX OR PLACE OF TERMINATION
- 14. ALL ELECTRICAL WIRING SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
- 15. GROUNDING: ALL COSTS FOR GROUNDING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING GROUNDED. ALL GROUND ROD ASSEMBLIES FOR POLES, SERVICES, CABINETS, AND OTHER RELATED EQUIPMENT SHALL BE BONDED TOGETHER TO FORM AN INTEGRATED GROUNDING SYSTEM USING #6 AWG THHN COPPER WIRE. THE UPPER END OF ALL GROUND RODS SHALL BE 18 INCHES BELOW GROUND ELEVATION. MARK GROUND ROD LOCATION WITH PERMANENT MARKER SUCH AS AN EPOXIED STICKER LOCATED ON THE NEAREST CURB, AND PROVIDE AS-BUILT DRAWINGS WITH THE LOCATION OF GROUND RODS MARKED. GROUNDING CONDUCTOR MUST BE #6 OR LARGER INSULATED COPPER.

CONNECTING DEVICES SHALL BE NON-CORROSIVE SPLIT BOLTS, CLAMPS, PRESSURE CONNECTORS, OR OTHER APPROVED MEANS TO ENSURE A POSITIVE CONNECTION.

GROUND RESISTANCE TESTER, OR OTHER APPROVED MEANS SHALL BE USED TO ACQUIRE THE GROUND ROD RESISTANCE. THE ENGINEER, OR A REPRESENTATIVE OF THE ENGINEER FROM THE TRAFFIC OPERATIONS DIVISION STAFF SHALL BE PRESENT DURING THE TEST

- 16. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR BORING.
- 17. CONTRACTOR SHALL SUPPLY ALL MATERIAL SUBMITTALS TO THE ENGINEER PRIOR TO CONSTRUCTION FOR APPROVAL
- 18. CONTRACTOR SHALL UTILIZE FDOT STANDARD PLANS INDEX 102-600, 102-615, 102-616, 102-617 AND 102-660 AS APPLICABLE DURING MAINTENANCE OF TRAFFIC OPERATIONS.
- 19. EXISTING SPEED LIMITS ARE AS FOLLOWS: 45 MPH ON CORTEZ ROAD 40 MPH ON 43RD AVENUE EAST (TO THE NORTH) 35 MPH ON 43RD AVENUE EAST (TO THE SOUTH)



- PAY ITEM 102-1-104.

CONDUIT NOTES

- ANY DAMAGE TO ANY UTILITY.
- 4.
- 5
- 7.
- Β. THE SAME DAY/ NIGHT OPERATION.
- CATHODIC REACTION.

								MICHAEL J DATES, PE			
NUMBER	DESCRIPTION	DATE	PROJECT #	307-6076861	SURVEYED	FDC	07/14/20	FLORIDA PE #49282	aller .		
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20. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW FOR ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED. THE CONTRACTOR SHALL FURNISH COPIES OF ALL DRAWINGS, SCHEDULES AND COMPLETE DESCRIPTIVE AND TECHNICAL DATA ON ALL ITEMS TO THE PROJECT MANAGER.

21. THE ACCEPTANCE OF ANY SUBMITTED DATA FOR MATERIALS, EQUIPMENT, APPARATUS, DEVICES, ARRANGEMENTS AND/OR LAYOUTS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING SAME AND PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITY AND INSTALLATIONS DETAILS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT, SUCH ACCEPTANCE SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT ON THE SUBMITTAL DATA.

22. CONTRACTOR TO CONTACT TRAFFIC ENGINEERING DIVISION: MUKUNDA GOPALAKRISHNA (941-749-3500 EXT. 7813) TO OBTAIN IP ADDRESSES FOR FIELD DEVICES AND ETHERNET SWITCH CONFIGURATION INFORMATION.

23. WHEN A CONTRACTOR IS WORKING ON A SIGNAL IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, LOOPS, HOMERUNS OR TURNING ON OF NEW SIGNAL) WHERE A LANE IS CLOSED, THE ENGINEER MAY REQUIRE AN OFF DUTY LAW ENFORCEMENT OFFICER TO DIRECT TRAFFIC. THE HOURLY RATE FOR AN OFF DUTY LAW ENFORCEMENT OFFICER CAN BE OBTAINED FROM THE LOCAL LAW ENFORCEMENT OFFICE. THE COST OF THE OFFICER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN PAY ITEM 102-1-104

1. ALL HDPE CONDUIT CONNECTIONS SHALL BE JOINED WITH A FUSION COUPLER OR FUSION SPLICE.

2. THE CONTRACTOR SHALL ADJUST THE CONDUIT RUNS, DEVICE POLES, BORES AND SERVICE POLE PLACEMENTS TO AVOID ANY UTILITY CONFLICTS IDENTIFIED BY THE LOCATES. ANY SIGNIFICANT CHANGE SHALL BE APPROVED BY THE ENGINEER.

3. THE CONDUITS TO BE INSTALLED ARE TO BE PLACED SO AS TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION REQUIRED TO PLAN THE WORK AHEAD FOR THE INSTALLATION OF THE REQUIRED CONDUITS WITHIN DESIGN OR SPECIFIED PARAMETERS, AND HIS TIME FRAME. THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY OR HORIZONTALLY TO AVOID CONFLICT WITH UNDERGROUND UTILITIES. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, NO SEPARTE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACK FILLING AND COMPACTING AROUND EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES. THE CONTRACTOR SHALL FIELD MARK THE PROPOSED ALIGNMENT FOR REVIEW AND CONCURRENCE BY THE ENGINEER PRIOR TO TRENCHING AND/OR PLACEMENT, NO PULL BOXES SHALL BE LOCATED IN DRAINAGE SWALES, OR PAVED SHOULDERS.

WHEN TRENCHING FOR INSTALLATION, THE CONTRACTOR MAY RUN COMMUNICATIONS AND POWER SERVICE IN THE SAME TRENCH. THE POWER SERVICE SHALL HAVE SEPARATE PULL BOXES FOR ACCESS. THE CONTRACTOR SHALL NOT INSTALL COMMUNICATIONS AND POWER SERVICE IN THE SAME CONDUIT, PULL BOX OR MANHOLE.

6. THE CONTRACTOR SHALL PLACE ALL CONDUITS IN A MANNER THAT MINIMIZES DEFLECTION BOTH HORIZONTALLY AND VERTICALLY, THUS MINIMIZING STRESS ON CABLES DURING CABLE INSTALLATION.

THE CONDUIT DETAILS GIVEN ARE MEANT TO BE SCHEMATIC IN NATURE. DUE TO ACTUAL FIELD CONDITIONS AND/OR NEEDS, DEVIATIONS MAY BE NECESSARY. DIMENSIONAL DISTANCES FOR CONDUIT LOCATIONS ARE PROVIDED TO ASSIST THE CONTRACTOR WITH CONDUIT PLACEMENT. THE CONTRACTOR SHALL TAKE THIS INTO ACCOUNT WHEN PLACING CONDUIT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING CONDUIT AROUND EXISTING UTILITIES AND OBSTRUCTIONS.

ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF THE WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. DO NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN

BRACKETS AND SPACERS WHICH ARE REQUIRED TO OFFSET THE RIGID METAL CONDULT FROM THE MOUNTING, SHALL BE OF SIMILAR MATERIALS TO PREVENT

9. ALL NEW CONDUIT SHALL BE PLACED AT A MINIMUM DEPTH OF 30" UNLESS PLACED IN AN AREA OF NEW FILL, IN WHICH CASE THE CONDUIT SHALL BE 48".

43RD STREET WEST RIGHT TURN LANE NORTH OF CORTEZ ROAD

SIGNALIZATION GENERAL NOTES

SHEET NO T-3

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PAY ITEM NOTES

1. 630-2-11:

#14 XHHW PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS, AT LEAST 2 FEET OF PULL WIRE SHALL BE ACCESSIBLE. ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY. WITH THE EXCEPTION OF ELECTRICAL POWER SERVICE DUCTS, JACK & BORE SLEEVES, AND DIRECTIONAL BORE CONDUITS, ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF 2" UNLESS OTHERWISE SPECIFIED IN THE PLANS. COST OF PULL WIRE SHALL BE INCLUDED UNDER THIS PAY ITEM.

2.

632-7-1: USE A MINIMUM OF 7 CONDUCTOR SIGNAL CABLES FOR SIGNAL HEADS AND PEDESTRIAN HEADS. THIS ITEM ONLY INCLUDES ANY ADDITIONAL WIRING NECESSARY TO CONSTRUCT THE PROJECT, THE INTENT IS NOT TO REWIRE THE ENTIRE INTERSECTION.

EACH PHASE/MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE/MOVEMENT. THIS INCLUDES THE LEFT TURN MOVEMENT WHICH SHALL HAVE CONDUCTORS AVAILABLE FOR EITHER PROTECTED OR PERMISSIVE MOVEMENTS, THE CONDUCTORS AVAILABLE FOR CODES FOR SIGNAL PERMISSIVE MOVEMENTS, THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE WITH THE MANATEE COUNTY BEFORE ORDERING, AND WIRE THE SIGNAL IN ACCORDANCE WITH THAT COLOR CODE AND F.D.O.T. SPECIFICATIONS. THERE SHALL BE ONE NEUTRAL PER APPROACH. THIS PAY ITEM INCLUDES FURNISHING AND INSTALLING THE REQUIRED CABLING FOR THE PROPOSED PEDESTRIAN AND VEHICULAR SIGNAL THE REQUIRED CABLING FOR THE PROPOSED PEDESTRIAN AND VEHICULAR SIGNAL ASSEMBLIES ALL PEDESTRIAN DETECTORS SHALL BE WIRED USING SEPARATE CABLE UTILIZING LOW VOLTAGE CONDUIT AND PULL BOXES.

3. 635-2-11:

PULL BOXES SHALL BE TRAFFIC BEARING, ALL POLYMER CONSTRUCTION (NOT CONCRETE), PULL BOXES AND LIDS (QUAZITE OR ANOTHER EQUIVALENT FOOT APPROVED MANUFACTURER). PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT.

STANDARD PULL BOX DIMENSIONS SHALL BE 17" X 30" X 12" AND THE LID SHALL BE STAMPED "MANATEE COUNTY TRAFFIC SIGNAL" ON THE COVER. STANDARD FIBER OPTIC COMMUNICATIONS PULL BOX DIMENSIONS SHALL BE 24" X 36" X 24" AND THE LID SHALL BE STAMPED "MANATEE COUNTY COMMUNICATIONS" ON THE COVER.

4 646-1-60 INCLUDES ALL ATTACHMENTS WITH THE RELOCATION (FOUNDATION, POLE, DETECTOR AND SIGNAL HEADS)

5. 650-1-14, 650-1-16 & 650-1-19: USE SIGNAL HEAD SUPPORTING HANGER THAT IS CAPABLE OF ADJUSTING VERTICALLY A MINIMUM OF 1.5'.

ALL SIGNAL HEADS SHALL HAVE FLEXIBLE BACKPLATES INSTALLED. ALL SIGNAL HEADS SHALL HAVE FLEAIDLE DAWNFLATES INSTALLED. ALL EXISTING SIGNAL HEADS SHALL ALSO RECEIVE FLEXIBLE BACKPLATES, INCIDENTAL TO THIS PAY ITEM. BACKPLATES SHALL BE MANUFACTURED FOR THE SIGNAL HEADS USED & INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. THE BACKPLATE SHALL HAVE A 2" YELLOW REFLECTORIZED (TYPE III REFLECTIVITY) OUTER EDGE BORDER UNLESS SPECIFIED OTHERWISE IN THE PLANS.

THE EXTERNAL COLOR OF SIGNAL HOUSING SHALL BE BLACK. ALL TRAFFIC SIGNAL HEAD INDICATIONS SHALL BE 12" LED. ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS. THE COST FOR THE TUNNEL VISORS SHALL BE INCLUDED UNDER THIS PAY ITEM.

INSTALL ALL SIGNAL HEADS AT A MINIMUM OF 17.5' VERTICAL HEIGHT ABOVE THE PAVEMENT SURFACE.

- 6. 660-3-11: SHALL INCLUDE ALL NECESSARY WAVETRONIX CLICKS UNITS FOR A COMPLETE AND OPERATIONAL SETUP.
- 7. 660-3-12.

SHALL INCLUDE WAVETRONIX SMARTSENSOR HD ADVANCE MVDS AS NOTED IN PLANS. THIS PAY ITEM WILL INCLUDE ALL NECESSARY MOUNTING BRACKETS AND CLAMPING EQUIPMENT SHALL INCLUDE ANY COST ASSOCIATED WITH PHYSICAL INSTALLATION OF SENSOR AND ANY SOFTWARE NECESSARY TO PROGRAM THE SENSOR.

8.

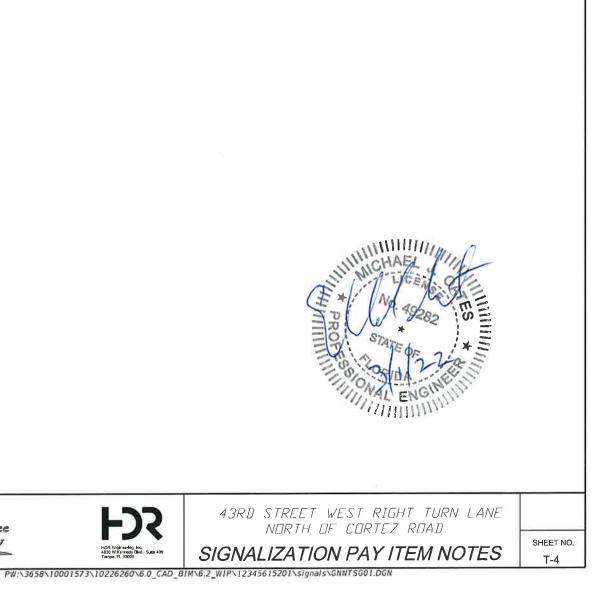
INCLUDES MODIFYING THE EXISTING SIGNAL TIMINGS AND ADJUSTMENT / ADDITION OF THE NEW SIGNAL EQUIPMENT TO ACCOMMODATE THE PROPOSED INTERSECTION DESIGN.

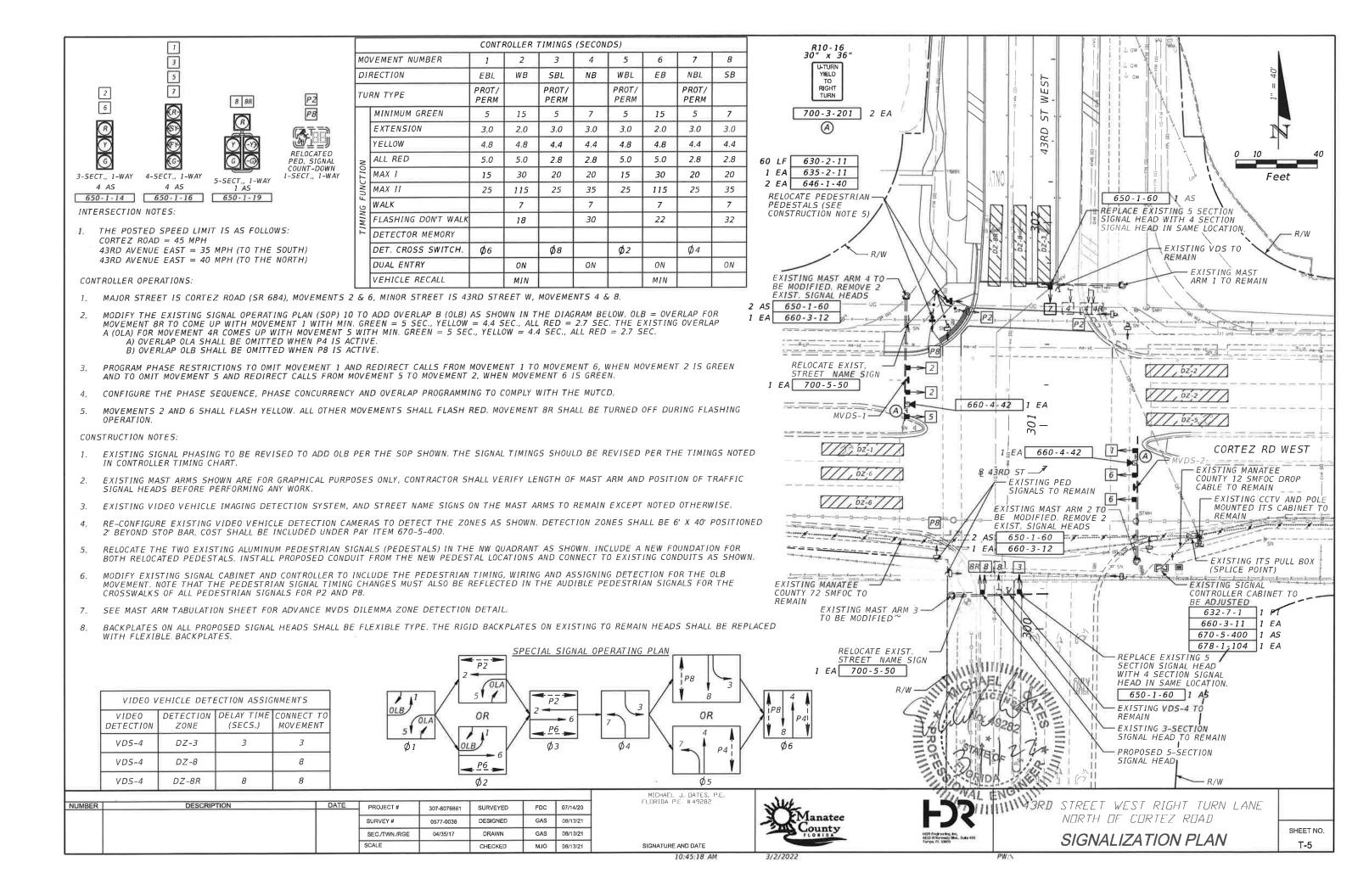
REQUEST UPDATED SIGNAL TIMINGS FROM FDOT TSM&O ENGINEER - ARTERIALS (863-519-2216) WHEN ALL LANES, STRIPING, SIGNALS AND PEDESTRIAN FACILITIES ARE IN THEIR FINAL WHEN ALL LANES, STATIFTING, STATAS AND FEDESTATING FACILITIES ARE IN THEIR THAL CONFIGURATION AND THE SIGNAL IS OPERATING AS DESIGNED. PROVIDE FOOT WITH ALL 'AS-BUILT' INFORMATION NECESSARY TO DEVELOP THE BASIC SIGNAL TIMING PARAMETERS AND ALLOW THREE (3) WEEKS FOLLOWING THE REQUEST FOR FOOT TO DEVELOP THE UPDATED TIMINGS. PROGRAM THE CONTROLLER PER THE TIMINGS PROVIDED BY FDOT.

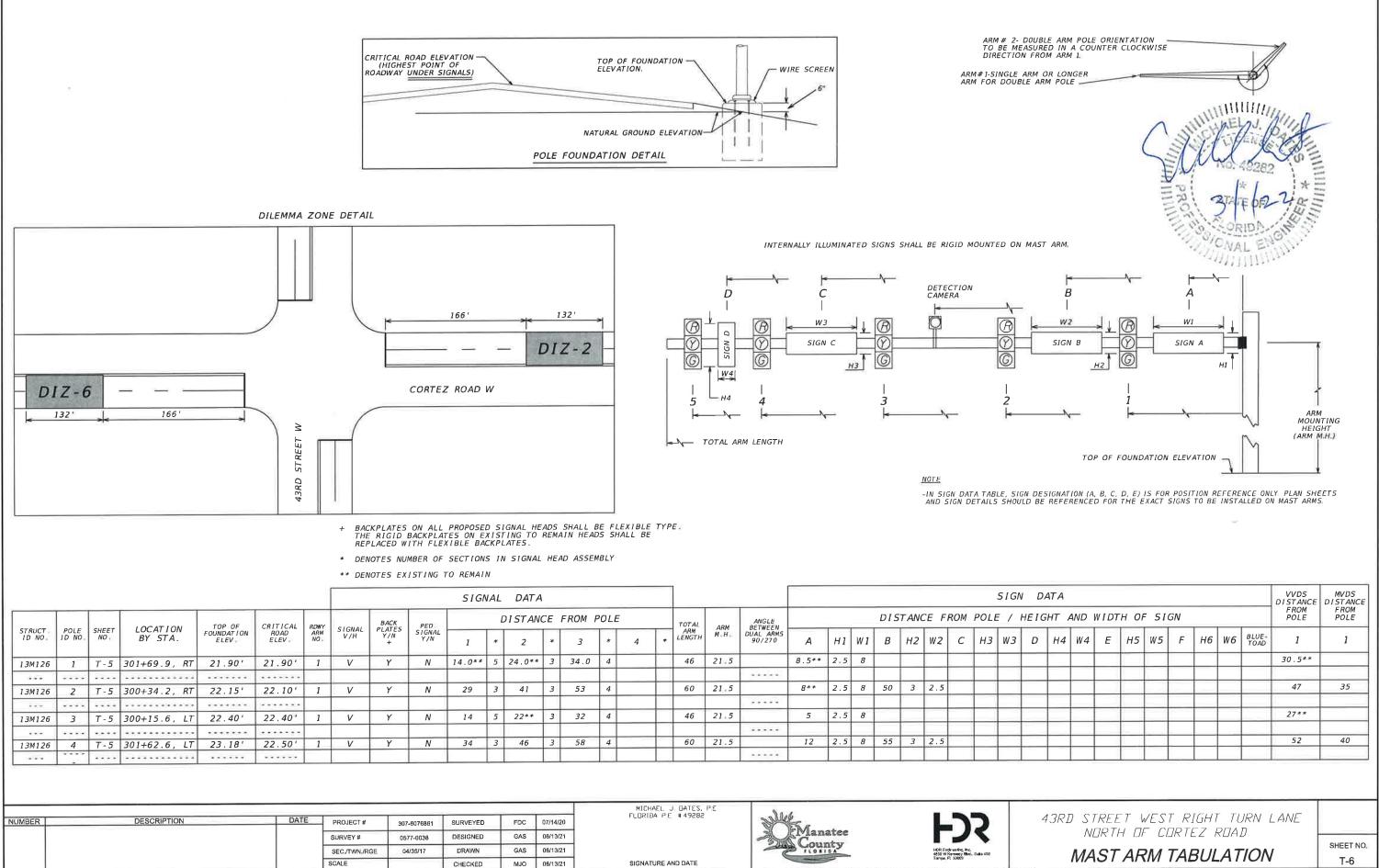
						-		MICHAEL J DATES, PE	Se.4	
NUMBER	DESCRIPTION	DATE	PROJECT #	307-6076861	SURVEYED	FDC	07/14/20	FLORIDA PE #49282	Della Contraction	LUD
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9. 715-4-60:

RELOCATED POLES INCLUDE THE REMOVAL OF THE EXISTING FOUNDATION AND A NEW FOUNDATION AT THE PROPOSED LOCATION







3/1/2022

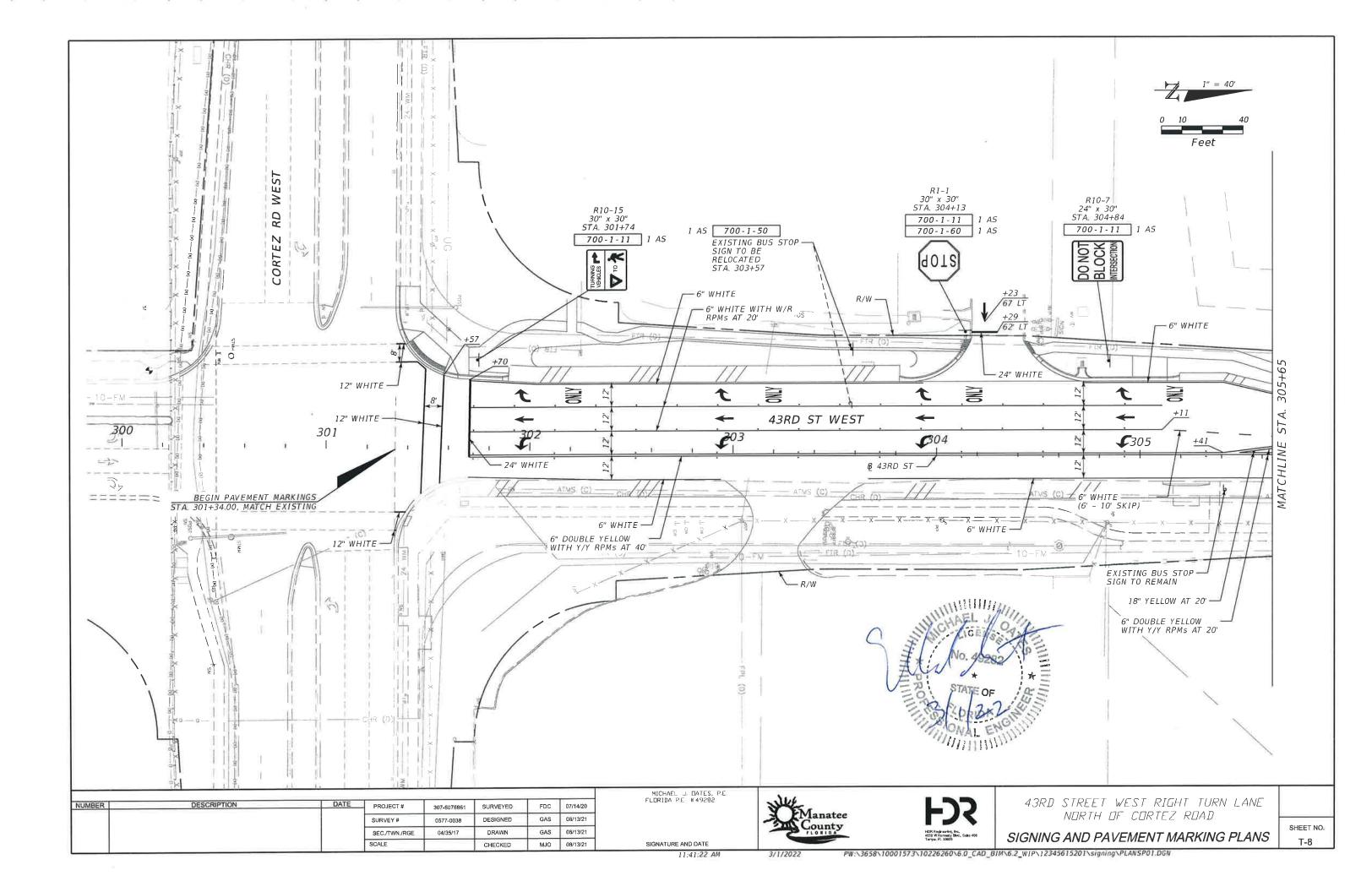
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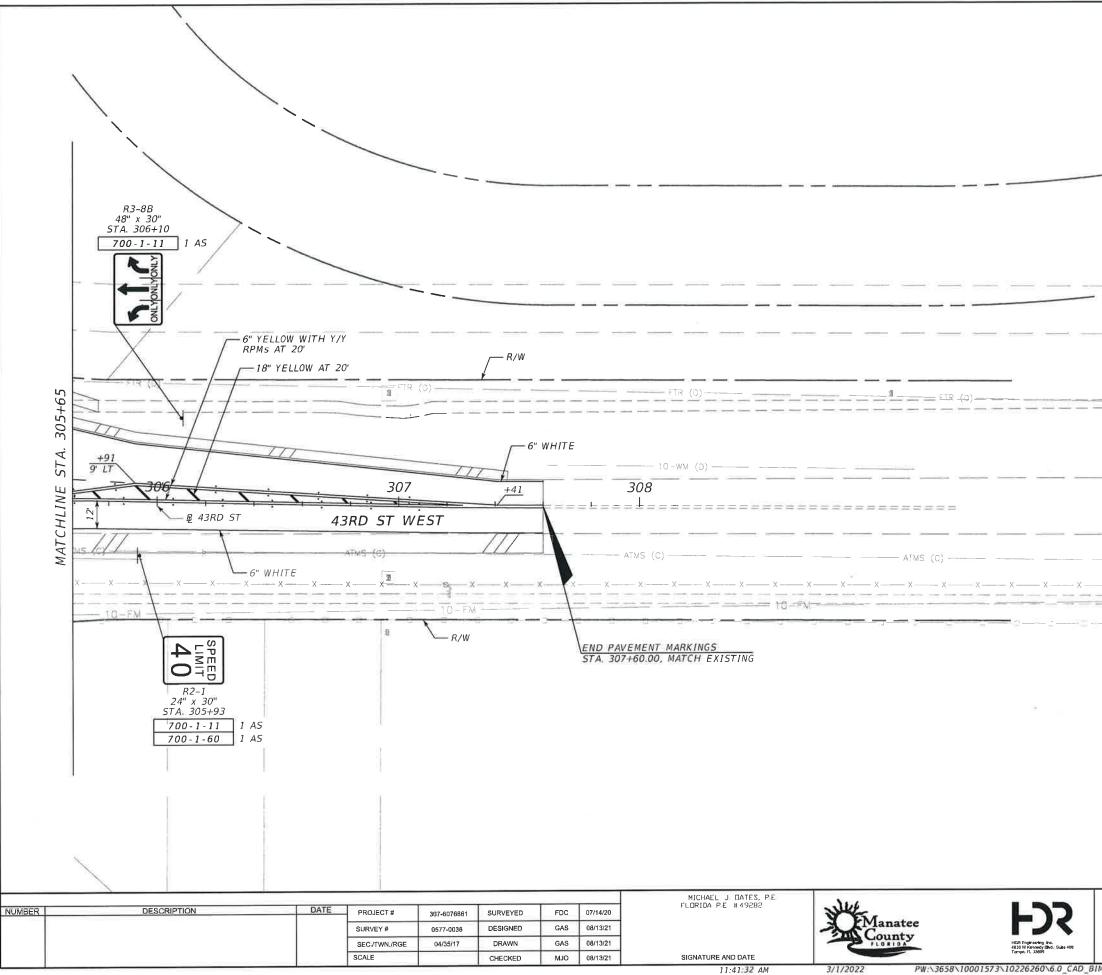
SIGNING AND PAVEMENT MARKING GENERAL NOTES:

- 1. ALL FLORIDA ROUTE MARKERS MUST CONFORM TO F.D.O.T. STANDARD PLANS INDEX NO. 700-102.
- 2. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE F.D.O.T. STANDARD PLANS.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- 4. REFER TO F.D.O.T. STANDARD PLANS INDEX NO. 706-001 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
- 5. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 6. THE SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
- 7. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE REFLECTED IN THE PAY ITEM NO. 102-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
- 8. COLUMNS (POSTS) FOR SINGLE COLUMN SIGNS ON CORTEZ ROAD SHALL BE ALUMINUM ROUND TUBE. SIGNS ON 43RD STREET WEST SHALL BE U-CHANNEL POST.
- 9. ALL SINGLE COLUMN SIGNS WITHIN THE LIMITS OF CLEARING AND GRUBBING SHALL BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS. PAYMENT SHALL BE REFLECTED IN THE PAY ITEM NO. 110-1-1 IN THE SUMMARY OF ROADWAY PAY ITEMS.
- 10. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO SIGN FOUNDATIONS AS DETERMINED BY THE CONTRACTOR, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE MULTI POST FOUNDATIONS.
- 11. UNLESS OTHERWISE NOTED ON PLAN SHEETS, ALL CROSSWALKS SHALL BE EIGHT FEET (8') IN WIDTH TO MATCH THE EXISTING CROSSWALKS. MEASUREMENTS SHALL BE FROM INSIDE TO INSIDE OF 12" STRIPES.

								MICHAEL J DATES, PE			
NUMBER	DESCRIPTION	DATE	PROJECT #	307-6076861	SURVEYED	FDC	07/14/20	FLORIDA PE #49282	July a		
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SIGNING AND PAVEMENT MARKING PLANS	T-9

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