MANATEE COUNTY PUBLIC WORKS DEPARTMENT

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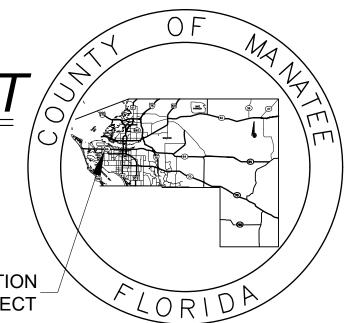
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MANATEE COUNTY PROJECT No: 6108261

INTERSECTION IMPROVEMENTS AT 75TH STREET WEST AND MANATEE AVENUE W. (SR 64) STANDARD MAST ARM ASSEMBLIES DATA TABLE SIGNALIZATION PLANS

BRADENTON, FLORIDA

LOCATION **OF PROJECT**



60% SUBMITTAL **JULY 2023** (NOT FOR CONSTRUCTION)



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.

ROADWAY PLANS ENGINEER OF RECORD:

DAVID J. ALLEN, P.E. NO. 58540 STANTEC CONSULTING SERVICES, INC. 3905 CRESCENT PARK DRIVE RIVERVIEW, FL 33578 813-664-4500



Know what's below

COUNTY PROJECT MANAGER: ANTHONY RUSSO, P.E.

FISCAL	SHEET
YEAR	NO.
23	Τ-1

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: ON THE DATE ADJACENT TO THE SEAL PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. DAVID J. ALLEN, PE STANTEC CONSULTING SERVICES, INC. 3905 CREW, FL 33578 (813) 664-4500	THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: No.82122 STATE OF STATE OF CORIDA STATE OF CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CORIDA CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTALLY CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTALLY CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTALLY CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION	THIS ITEM HAS BEEN DIGITALLY STATE OF STATE OF STATE OF CON THE DATE ADJACENT TO THE SEAL PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. ANY GUISINGER, PE TIERRA SOUTH FLORIDA, INC. 6011 BENJAMIN ROAD, SUITE 106 TAMPA, FL 33634
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	RIVERVIEW, FL 33578 COUNTY COUNTY	C WORKS INS. PROJECT NO: SIGNATURE SHEET T-2



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TABULATION OF QUANTITIES SHEET NUMBERS PAY ITEM UNIT T - 6 NO. PLAN FINAL PLAN FINAL PLAN FINAL PLAN FINAL PLAN FINAL PL 630-2-11 CONDUIT, FURNISH & INSTALL, OPEN TRENCH LF 160 530-2-12 CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE LF 375 532-7-1 SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL ΡI 632-7-6 SIGNAL CABLE. REMOVE- INTERSECTION PI 1 635-2-14 PULL & SPLICE BOX, F&I, 17" x 30" COVER SIZE ΕA 10 646-1-11 ALUMINUM SIGNALS POLE, PEDESTAL ËΑ 6 646-1-60 ALUMINUM SIGNALS POLE, REMOVE ËΑ STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78' 649-21-21 ËΑ 649-21-27 STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 78'-78' ΕA 649-26-5 STEEL MAST ARM ASSEMBLY, REMOVE, DEEP FOUNDATION- BOLT ON ATTACHMENT EΑ 550-1-14 VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY AS 15 PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY 653-1-11 AS PEDESTRIAN SIGNAL, REMOVE PED SIGNAL- POLE/PEDESTAL TO REMAIN AS 653-1-60 VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT 660-3-11 EΑ VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT 660-3-12 ΕA 665-1-11 PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD ΕA MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL 584-1-1 ΕA 700-5-22 INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF ΕA INTERNALLY ILLUMINATED SIGN, REMOVE ΕA 700-5-60 INTERS REVISIONS DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 3905 CRESCENT PARK DRIVE RIVERVIEW, FL 33578 (813) 664-4500 MANAIEE COUNT MANATEE COUNTY DESCRIPTION NO. DATE Stantec ____ County COUNTY PROJECT NO: TAI 6108261

STANTEC CONSULTING SERVICES, INC.

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GENERAL NOTES

1. AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DEPARTMENTS TO INFORM THEM OF CONSTRUCTION OPERATIONS:

MANATEE COUNTY TRAFFIC OPERATIONS DIVISION: MR. AARON BURKETT 2904 12TH STREET COURT EAST BRADENTON, FLORIDA 34208 PHONE (941) 708-7450, EXT. 7509

MANATEE COUNTY TRAFFIC ENGINEERING DIVISION: MR. VISHAL KAKKAD, P.E. PTOE 2101 47TH TERRACE EAST BRADENTON, FLORIDA 34208 PHONE (941) 749-3500, EXT. 7812

CITY OF BRADENTON PUBLIC WORKS AND UTILITIES KIM CLAYBACK, P.E. 1411 9TH STREET WEST BRADENTON, FLORIDA 34205 PHONE (941) 708-6300, EXT. 224

FDOT TRAFFIC OPERATIONS RENJAN JOSEPH, P.E., TSM&O ENGINEER 801 N. BROADWAY AVENUE P,O. BOX 1249 BARTOW, FLORIDA 33830-1249 PHONE (863) 519-2746

2. 48 HOURS PRIOR TO CONTRACT START DATE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES IN WRITING GIVING THE LOCATION, START DATE AND EMERGENCY NUMBERS FOR AFTER HOURS REPAIRS:

MANATEE COUNTY SHERRIFF'S OFFICE 515 11TH STREET WEST BRADENTON, FLORIDA 34205 PH 941-747-3011

3. THIS SIGNAL IS MAINTAINED BY THE CITY OF BRADENTON. THE ATMS COMPONENTS ARE MAINTAINED BY MANATEE COUNTY. MANATEE COUNTY SIGNAL SPECIFICATIONS SHALL BE FOLLOWED OTHER THAN THE CITY OF BRADENTON'S PREFERENCES THAT ARE INCORPORATED HEREIN.

THE CONTRACTOR SHALL OBTAIN A COPY OF MANATEE COUNTY'S LATEST "TRAFFIC INFRASTRUCTURE DESIGN GUIDE" THROUGH THE COUNTY PROJECT MANAGER PRIOR TO ORDERING MATERIALS AND/OR EQUIPMENT. CONTACT THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION, MR. AARON BURKETT, 941-709-7509 FOR ADDITIONAL INFORMATION.

4. THE CONTRACTOR MUST NOTIFY THE CITY OF BRADENTON AND COUNTY TRAFFIC ENGINEERING DIVISIONS VIA THE PROJECT MANAGER AT LEAST FIVE (5) BUSINESS DAYS IN ADVANCE TO SCHEDULE THE FINAL TRAFFIC SIGNAL INSPECTION.

5. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ANY AND ALL SIGNALS AND SIGNAGE FROM COMMENCEMENT TO ACCEPTANCE OF THE PROJECT (I.E.: EXISTING LOOPS CUT, SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS, TRAFFIC SIGNAL SCHOOL FLASHER, WARNING FLASHER, ROADWAY LIGHTING, COUNT STATIONS, AND ANY OTHER TRAFFIC RELATED DEVICE LOCATED WITHIN THE CONSTRUCTION ZONE). MANATEE COUNTY WILL ASSIST IN PROVIDING EXISTING SYSTEM TIMINGS WHEN POSSIBLE.

6. THE SIGNAL CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO TROUBLE CALLS TWENTY-FOUR HOURS A DAY, SEVEN DAYS A WEEK FOR THE DURATION OF THE PROJECT. THE PRIME CONTRACTOR SHALL PROVIDE CONTACT NUMBERS FOR THE SIGNAL CONTRACTOR TO THE TRAFFIC MANAGEMENT DIVISION AT COMMENCEMENT OF PROJECT. FURTHERMORE, WITHIN TWO HOURS OF NOTIFICATION OR DOCUMENTED ATTEMPTED NOTIFICATIONS, THE SIGNAL CONTRACTOR SHALL BE ON SITE MAKING NEEDED REPAIRS OR MODIFICATIONS. FAILURE TO MEET THE TIME REQUIREMENTS SHALL GIVE THE COUNTY, AT ITS DISCRETION, THE RIGHT TO REQUEST ASSISTANCE FROM THE MANATEE COUNTY SHERIFF'S DEPARTMENT TO CONTROL TRAFFIC FOR THE PERIOD OF TIME UNTIL THE CONTRACTOR RESPONDS AND MAKES THE NEEDED REPAIRS, THE COST FOR THE MANATEE COUNTY SHERIFF'S OFFICE SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR.

7. GROUNDING: ALL GROUND ROD 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 LOCATIONS WITH PERMANENT MARKER SUCH AS AN EPOXY 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. EQUIPMENT SHALL NOT BE PLACED INTO OPERATIONAL SERVICE UNTIL THE ASSOCIATED GROUNDING SYSTEM HAS BEEN INSPECTED AND APPROVED BY A MEMBER OF THE MANATEE COUNTY TRAFFIC OPERATIONS STAFF. A 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. CONNECTIVE DEVICES SHALL BE NON-CORROSIVE SPLIT BOLT, CLAMP, PRESSURE CONNECTORS, OR OTHER APPROVED MEANS TO ENSURE A POSITIVE CONNECTION. 8. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONTRACTOR SHALL FIELD MARK THE PROPOSED CONDUIT INSTALLATION TO TRENCHING AND/OR PLACEMENT. NO PULL BOXES SHALL BE LOCATED

9. AT LEAST 5 BUSINESS DAYS PRIOR TO SCHEDULING THE INITIAL TR AS-BUILT RECORD DRAWINGS, TWO SETS OF IMSA INSPECTION FORMS, RECORD DRAWINGS IN ADOBE ACROBAT (.PDF) AND AUTOCAD (.DWG) FO

MANATEE COUNTY TRAFFIC OPERATIONS DIVISION MR. AARON BURKETT 2904 12TH ST CT EAST BRADENTON, FL 34208

10. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW FOR ALL EQUIPM SHALL FURNISH COPIES OF ALL DRAWINGS, SCHEDULES AND COMPLETE I MANAGER. THE CONTRACTOR SHALL SUBMIT ALL MATERIALS TO THE ENG

11. ALL CONSTRUCTION ACTIVITIES SHALL FOLLOW CURRENT MANATEE C FDOT STANDARDS AND SPECIFICATIONS.

12. THE CONTRACTOR SHALL HAVE AN IMSA CERTIFIED LEVEL II (ELECTR WHILE WORK IS BEING PERFORMED. CERTIFICATION OF ALL TECHNICIANS SIGNAL INSTALLATION TECHNICIANS SHALL HAVE A MINIMUM OF IMSA LE

13. THE CONTRACTOR SHALL PROVIDE A WARRANTY/MAINTENANCE BOND SPECIFICATION SECTION 611-5. THE CONTRACTOR IS RESPONSIBLE FOR O PUBLIC WORKS SENIOR ADMINISTRATIVE SPECIALIST, AT (941) 708-7450, 14. WHERE MAST ARM, STRAIN POLES, OR ANY OTHER SIGNAL EQUIPMEN UNDERGROUND UTILITY, LOCATE AND PROTECT THE UTILITY. HAND DIG

15. THE CONTRACTOR SHALL DE-WATER THE POLE FOUNDATION EXCAVAT OF THE FOUNDATION BASE.

16. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDIN INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMAT POINTS SHOWN. INTERPOLATION BETWEEN POINTS HAVE NOT BEEN VERI CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1-800 UTILITY OWNERS. THE CONTRACTOR SHALL NOTIFY UTILITY/OWNERS/AGE TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION THE POWER LINE CANNOT BE MAINTAINED, A QUALIFIED REPRESENTATIV UNDER POWER LINES. THE CONTRACTOR SHALL CONTACT LOCAL POWER (WORK UNDER POWER LINES, SUCH AS THE INSTALLATION OF SIGNAL CAR

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOG A SERVICE PROCESSING FEE IS REQUIRED. ANY FEE SHALL BE INCLUDED ASSEMBLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AL CONTRACTOR SHALL COORDINATE THE CONSTRUCTION, INSPECTION AND ORDER TO PROMOTE PROJECT COMPLETION WITHIN CONTRACT TIME.

18. THE POWER SERVICE SHALL HAVE SEPARATE PULL BOXES FOR ACCES POWER SERVICE IN THE SAME CONDUIT, PULL BOX OR MANHOLE.

19. RESPONSIBILITIES RELATED TO UTILITIES ARE NOTED IN THE ROADW

20. ELEVATION OF THE TOP OF THE MAST ARM FOUNDATION SHALL BE S BACK OF SIDEWALK. IF LOCATED AT BACK OF SIDEWALK, THE FOUNDATI FOUNDATION ELEVATION" ON MAST ARM TABULATION SHEET.

21. COORDINATE PAVEMENT MARKINGS AND SIGNAGE WORK WITH THE S UNTIL ALL PROPOSED STOP BARS, CROSSWALKS, RAMPS, AND PAVEMENT

22. ALL MATERIALS, EQUIPMENT, AND OTHER CONTRACTOR SUPPLIED ITE MANUFACTURER'S RECOMMENDATIONS, UNLESS SPECIFICALLY DIRECTED C

23. ELECTRICAL WIRING SHALL COMPLY WITH ALL APPLICABLE PROVISION PUBLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION.

24. #14 XHHW PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS. AL LEA TERMINATION AND SECURED IN THE PULL BOX OR PLACE OF TERMINATION



E CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR BORII ON ALIGNMENT FOR REVIEW AND CONCURRENCE BY THE ENGI ED IN DRAINAGE SWALES OR PAVED SHOULDERS.	
RAFFIC SIGNAL INSPECTION, DELIVER THREE HARDCOPY SETS OTDR FIBER OPTIC CABLE TEST RESULTS, AND ONE COMPACT ORMAT TO:	
PMENT AND MATERIALS FURNISHED AND INSTALLED. THE CONT E DESCRIPTIVE AND TECHNICAL DATA FOR ALL ITEMS TO THE	
IGINEER. PRIOR TO CONSTRUCTION, FOR APPROVAL. COUNTY HIGHWAY, TRAFFIC & STORMWATER STANDARDS, ALC	ONG WITH
TRONICS OR ELECTRICAL TECHNICIAN) ON THE JOB SITE AT A NS SHALL BE PROVIDED TO THE COUNTY PRIOR TO BEGINNIN LEVEL I CERTIFICATION.	
ID FOR THE SIGNAL INSTALLATIONS IN ACCORDANCE WITH FD COORDINATING BOND REQUIREMENTS WITH THE MANATEE CO , EXT. 7613.	
, LAT REQUIRING FOUNDATIONS ARE PROPOSED WITHIN 4 FEET G THE INITIAL 5 FEET FOR THE FOUNDATION.	OF ANY
ATION IF THE ELEVATION OF WATER IS HIGHER THAN THE EL	EVATION
DING THOSE DESIGNATED VV VH AND VVH) ARE BASED ON LI ATE ONLY. THE VERIFIED LOCATION/ELEVATIONS APPLY ONLY GRIFIED. THE EXACT LOCATIONS SHALL BE DETERMINED BY TH 300-432-4770, IN COORDINATION WITH UNDERGROUND AND OV GENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT TION. AT ALL LOCATIONS WHERE THE REQUIRED VERTICAL CLE IVE FROM THE POWER COMPANY SHALL BE PRESENT DURING . R COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECE ABLE, FIBERGLASS INSULATORS, AND SIGNAL POLES.	AT THE E ERHEAD LESS THAT ARANCE TO ALL WORK
OCAL POWER COMPANY PROVIDING ELECTRICAL POWER TO DE ED AS PART OF PAYMENT FOR THE ELECTRICAL POWER SERVIC ALL PERMITS AND INSPECTIONS OF THE ELECTRICAL SERVICE. ID ENERGIZING OF THE NEW POWER SERVICE IN A TIMELY M	E THE
ESS. THE CONTRACTOR SHALL NOT INSTALL COMMUNICATIONS	AND
DWAY PLANS. SEE ROADWAY PLANS FOR UTILITY CONTACT INF	ORMATION.
E SIX (6) INCHES ABOVE EXISTING GRADE, UNLESS LOCATED L NTION ELEVATION SHALL MATCH SIDEWALK GRADE. SEE "TOP C	
SCHEDULING OF SIGNAL ACTIVATION. DO NOT ACTIVATE THE T WORK IS COMPLETE.	SIGNAL
TEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO O OTHERWISE BY THE ENGINEER.	
ONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL (CODE
EAST 2 FEET OF PULL WIRE SHALL BE ACCESSIBLE AT EACH C TION.	ONDUIT
RSECTION IMPROVEMENTS AT 75TH STREET WEST AND MANATEE AVENUE W. (SR 64)	SHEET NO.
GENERAL NOTES (1)	T-4

GENERAL NOTES (CONT.)

25. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TWO PORTABLE 4' X 8' VARIABLE-MESSAGE SIGNS (VMS) FOR A PERIOD OF TWO WEEKS. THE VMS WILL BE LOCATED AT AN APPROPRIATE DISTANCE IN ADVANCE OF EACH APPROACH TO THE NEW SIGNALIZED INTERSECTION AS SPECIFIED BY THE MAINTAINING AGENCY'S ENGINEER. THE VMS WILL BE PROVIDED (1) WEEK PRIOR TO THE SCHEDULED ACTIVATION IN FULL COLOR OPERATION AND SHALL REMAIN IN PLACE FOR ONE (1) WEEK FOLLOWING ACTIVATION. COST OF FURNISHING VMS TO BE INCLUDED UNDER THE ASSOCIATED PAY ITEM FOR MAINTENANCE OF TRAFFIC

PRIOR TO ACTIVATION. THE VMS SIGN SHALL BE: (PANEL ONE - LINE 1) "TRAFFIC" (PANEL TWO - LINE 1) "ACTIVATED" (PANEL ONE - LINE 2) "SIGNAL" (PANEL TWO - LINE 2) "ON DAY" (PANEL ONE - LINE 3) "WILL BE" (PANEL TWO - LINE 3) "MONTH X

SUBSTITUTION FOR THE WORD "DAY" SHALL BE AS FOLLOWS: SUNDAY AS "SUN" MONDAY AS "MON" TUESDAY AS "TUES" WEDNESDAY AS "WED"

THURSDAY AS "THUR FRIDAY AS "FRI" SATURDAY AS "SAT"

SUBSTITUTION FOR THE WORD "MONTH" SHALL BE AS FOLLOWS: С. JANUARY AS "JAN" JULY AS "JUL" FEBRUARY AS "FEB" AUGUST AS "AUG" MARCH AS "MAR" SEPTEMBER AS "SEP" APRIL AS "APR" OCTOBER AS "OCT" NOVEMBER AS "NOV MAY AS "MAY' JUNE AS "JUN" DECEMBER AS "DEC"

SUBSTITUTION FOR THE WORD "XX" SHALL BE AS FOLLOWS: D.

THE NUMERICAL DAY OF THE MONTH, FROM ONE (1) TO THIRTY-JONE (31). 1. DATES LESS THAN TEN (10) SHALL BE PRECEDED BY A ZERO (0); EXAMPLE: "JAN 03" FOR JANUARY 3RD.

AFTER THE TURN-ON, THE VMS SHALL BE CHANGED TO (PANEL ONE - LINE 1) "TRAFFIC" (PANEL TWO - LINE 1) "NOW" (PANEL ONE - LINE 2) "SIGNAL" (PANEL TWO - LINE 2) "ACTIVE"

PANEL TWO, LINE 1 AND LINE 2, SHALL FLASH THREE (3) TIMES BEFORE REVERTING TO PANEL ONE.

PAY ITEM NOTES

630-2-12

THE CONTRACTOR SHALL PROVIDE BORE LOGS FOR ALL CONDUIT INSTALLED USING DIRECTIONAL BORE METHOD.

632-7-1-CONTACT MANATEE COUNTY FOR COLOR CODE VERIFICATION.

THIS PAY ITEM INCLUDES CONDUCTORS TO POWER THE OVERHEAD ILLUMINATED STREET NAME SIGNS.

635-2-14

PULL BOXES SHALL BE TRAFFIC BEARING. ALL POLYMER CONSTRUCTION (NOT CONCRETE). 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. ALL PULL BOXES AND SPLICE BOXES SHALL HAVE TRAFFIC BEARING LIDS WITH A MINIMUM LOAD RATING OF 20,000 LB.

STANDARD PULL BOX DIMENSIONS SHALL BE 17"X30"X12" AND THE LID SHALL BE STAMPED "MANATEE COUNTY TRAFFIC SIGNAL" ON THE COVER

REMOVE ALL UNUSED PULL BOXES. PAYMENT FOR REMOVAL IS COVERED UNDER ROADWAY CLEARING AND GRUBBING.

649-26-5

THE EXISTING MAST ARM SUPPORTS LICENSE PLATE READER TECHNOLOGY. CONTACT THE MANATEE COUNTY SHERRIFF'S OFFICE SEVEN BUSINESS DAYS IN ADVANCE OF MAST ARM REMOVAL TO COORDINATE THE REMOVAL OF THE LICENSE PLATE READER AND SOLAR PANEL.

CAPTAIN RICK GERKEN MANATEE COUNTY SHERIFF'S OFFICE 941-747-3011 X 2041 Richard.gerken@manateesheriff.com

650-1-14

USE ALUMINUM LOUVERED BACKPATES ON ALL SIGNAL HEADS. ALL BACKPLATES SHALL INCLUDE A 2" YELLOW REFLECTORIZED (TYPE III REFLECTIVITY) OUTER EDGE BORDER.

653-1-11

USE LOCKING COLLARS FOR MOUNTING PEDESTRIAN SIGNAL HEADS TO PEDESTALS.

660-3-11, 660-3-12:

THE CONTRACTOR SHALL COORDINATE WITH THE VENDOR AND PROVIDE DETECTION OVERLAY PLANS TO THE COUNTY FOR REVIEW PRIOR TO FINALIZING INSTALLATION IN THE FIELD. CONSULT WITH THE MANUFACTURER AND USE RECOMMENDED MATERIALS AND INSTALLATION METHODS. USE EQUIPMENT COMPATIBLE WITH

MANATEE COUNTY'S EXISTING ATMS SYSTEM.

USE WAVETRONIX SMARTSENSOR MATRIX UNITS FOR STOP BAR DETECTION. USE WAVETRONIX SMARTSENSOR ADVANCE EXTENDED RANGE UNITS FOR ADVANCE DETECTION.

INSTALL ALL MICROWAVE DETECTION CABLING IN CONTINUOUS LENGTHS FROM THE CONTROL CABINET TO POINT OF DEVICE TERMINATION. ATTACH DETECTION DEVICES TO THE PROPOSED MAST ARMS USING MANUFACTURER'S RECOMMENDED HARDWARE AND POSITIONING AS

REQUIRED FOR OPTIMAL OPERATION.

MODIFY THE EXISTING CABINET UNDER THESE PAY ITEMS TO ENABLE ALL MICROWAVE DETECTION.

684-1-1: PROVIDE A RUGGEDCOM SWITCH MODEL RSG920P (6GK6092-0PS23-0BA0-Z A05+B05+C02+D02).

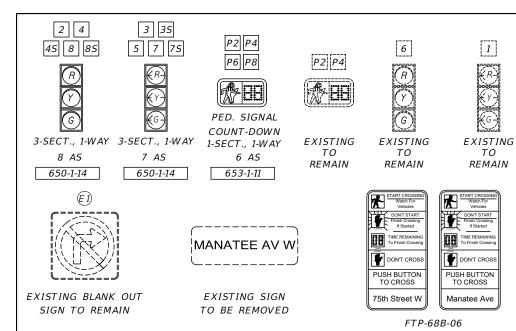
THIS ITEM SHALL INCLUDE A PLANET 2-CHANNEL OPTICAL FIBER BYPASS SWITCH MODEL IFB-244-SLC WITH A SEPARATE 48V POWER ADAPTOR AND TWO SINGLE MODE DUPLEX 3-FOOT LC-LC FIBER PATCH CABLES.

CONTROLLER MODIFICATION:

MODIFY THE CONTROLLER CABINET AS NEEDED TO ENABLE FULL COMMUNICATION AND OPERATION AS SHOWN. THE COST TO MODIFY THE CONTROLLER CABINET IS COVERED UNDER OTHER PAY ITEMS. NO SEPARATE PAY ITEM IS PROVIDED.

CON	DUIT	LEGEND
ΗV	=	HIGH VOLTAGE CONDUIT
LV	=	LOW VOLTAGE CONDUIT
ΜV	=	MVDS CONDUIT
SP	=	SPARE CONDUIT





NOTES:

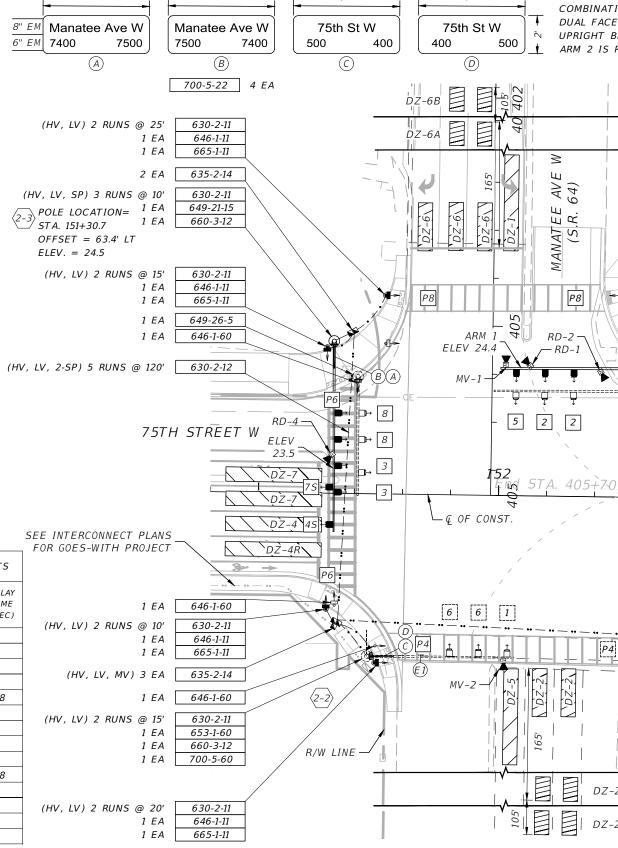
- 1. POSTED SPEED LIMIT FOR 75TH STREET WEST IS 40 MPH. POSTED SPEED LIMIT FOR MANATEE AVENUE WEST IS 45 MPH.
- 2. REQUEST UPDATED SIGNAL TIMINGS FROM FDOT TSM&O ENGINEER ARTERIALS (863-519-2216) WHEN ALL LANES, STRIPING, SIGNALS AND PEDESTRIAN FACILITIES ARE IN THEIR FINAL CONFIGURATION AND THE SIGNAL IS OPERATING AS DESIGNED. PROVIDE FDOT WITH ALL 'AS-BUILT' INFORMATION NECESSARY TO DEVELOP THE BASIC SIGNAL TIMING PARAMETERS AND ALLOW THREE (3) WEEKS FOLLOWING THE REQUEST FOR FDOT TO DEVELOP THE UPDATED TIMINGS. PROGRAM THE CONTROLLER PER THE TIMINGS PROVIDED BY FDOT.

CONTROLLER OPERATION

- 1. MAJOR STREET IS MANATEE AVENUE WEST, MINOR STREET IS 75TH STREET WEST.
- 2. FLASHING OPERATION SHALL BE YELLOW FOR MOVEMENTS 1, 2, 5, AND 6, AND RED FOR MOVEMENTS 3, 4, 7, AND 8.
- 3. EXISTING CONTROLLER OPERATION SOP 10 TO REMAIN.

CONTROLLER TIMINGS														
MOVEMENT #	1	2	3	4	5	6	7	8						
DIRECTION	EBLT	WB	SBLT	NB	WBLT	EB	NBLT	SB						
TURN TYPE	PROT		PROT		PROT		PROT							
MIN GREEN	5	10	5	7	5	10	5	7						
EXTENSION	3.0	5.0	3.0	3.0	3.0	5.0	3.0	3.0						
YELLOW	4.8	4.8	4.5	4.5	4.8	4.8	4.5	4.5						
ALL RED	3.5	2.0	3.2	2.0	2.9	2.0	2.0	2.0						
MAX 1	30	55	40	40	40	45	30	40						
MAX 2	30	75	45	50	40	65	40	50						
MAX LIMIT														
ADJUST BY														
WALK		10		10		10		10						
FLASHING DON'T WALK		28		28		26		24						
DETECTOR MEMORY				ON				ON						
DET. CROSS SWITCH														
DUAL ENTRY		ON		ON		ON		ON						
RECALL		МАХ				МАХ								

DETECT	ION ZONE	ASSIGNM	ENTS
RADAR DETECTOR NO.	DETECTION ZONE(S)	CONNECT TO MOVEMENT	DELAY TIME (SEC)
RD-1	DZ-1	1	
RD-1	DZ-6	6	
RD-2	DZ-3	3	
RD-2	DZ-8	8	
RD-2	DZ-8R	8	8
RD-3	DZ-5	5	
RD-3	DZ-2	2	
RD-4	DZ-7	7	
RD-4	DZ-4	4	
RD-4	DZ-4R	4	8
MV-1	DZ-6A	6	
MV-1	DZ-6B	6	
MV-2	DZ-2A	2	
MV-2	DZ-2B	2	

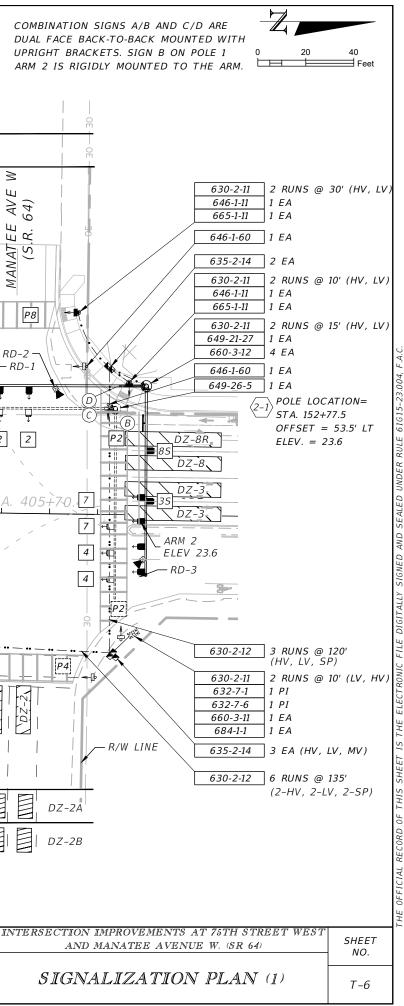


TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER. DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

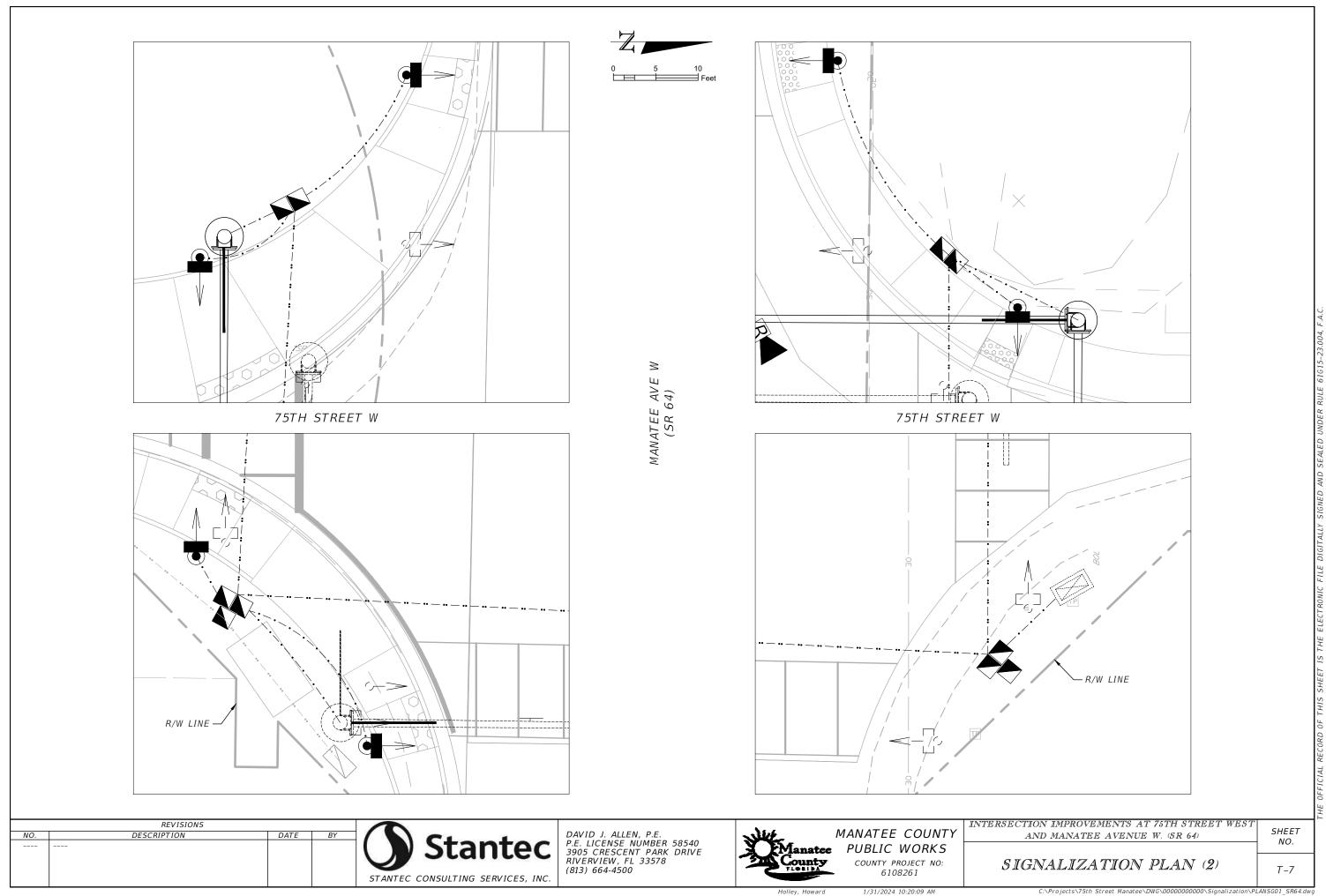


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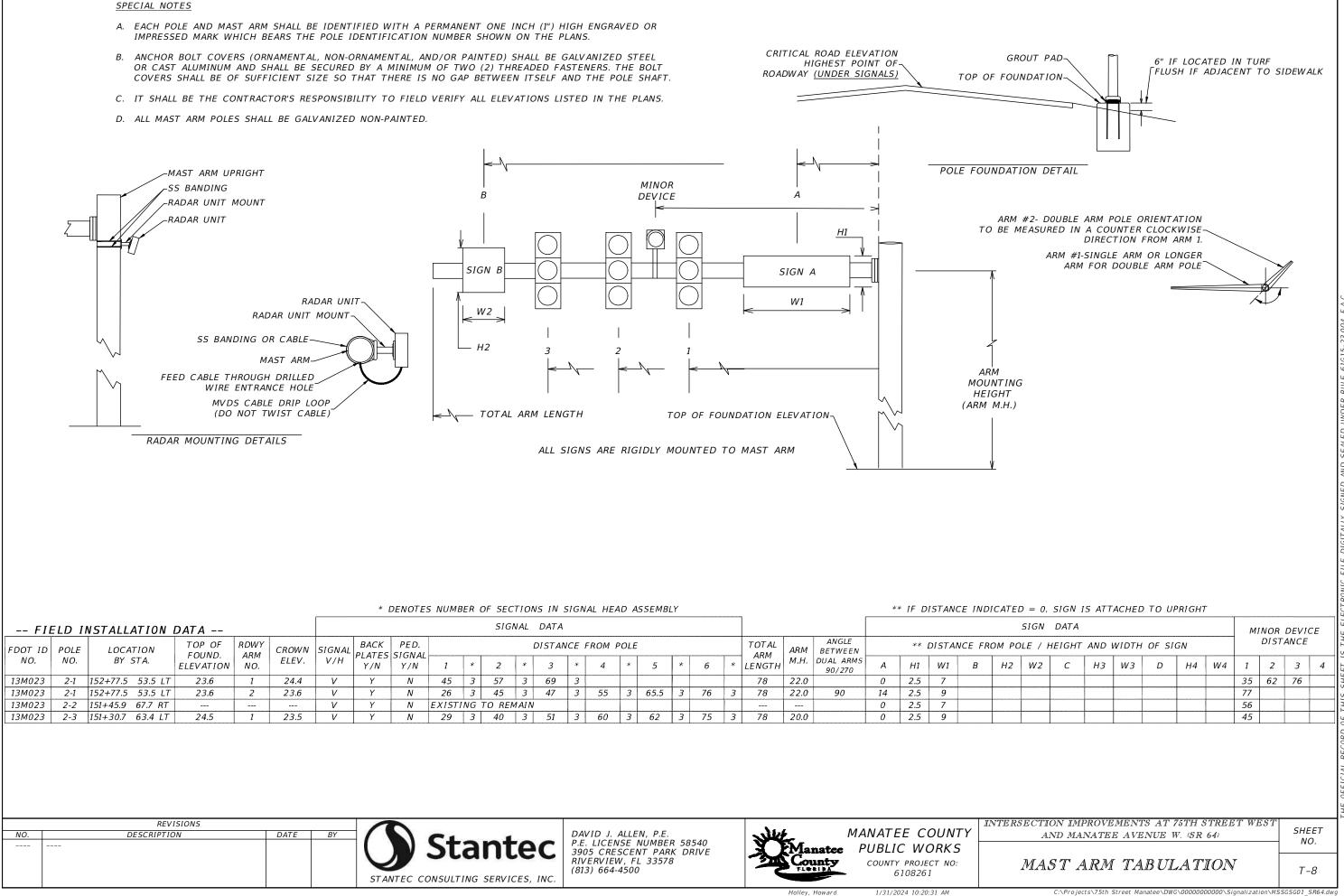
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Holley, Howard



	STANDARD M.	4ST ARM	1 ASSEM	MBLIES L	ΟΑΤΑ ΤΑ	4 <i>BLE</i>						
CTRUCTURE		FIRST	- ARM	SECON	D ARM			POLE				
STRUCTURE ID NUMBER	DESIGNATION	ARM ID	FAA (ft.)	ARM ID	5AA (ft.)	UF (deg)	LL (deg)	POLE ID	UAA (ft.)			
2-1	A78/D-A78/D-P7/D-DS/20/5.0	A78/D		A78/D	- <u>-</u> -			P7/D	25.0			
2-3	A78/S-P6/S-DS/18/5.0	A78/S						P6/S	23.0			
				· ·		•						

NOTES [Notes Date 11-01-16]:

- 1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
- 2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
- 3. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- 4. Work with Index 649-030 and 649-031.

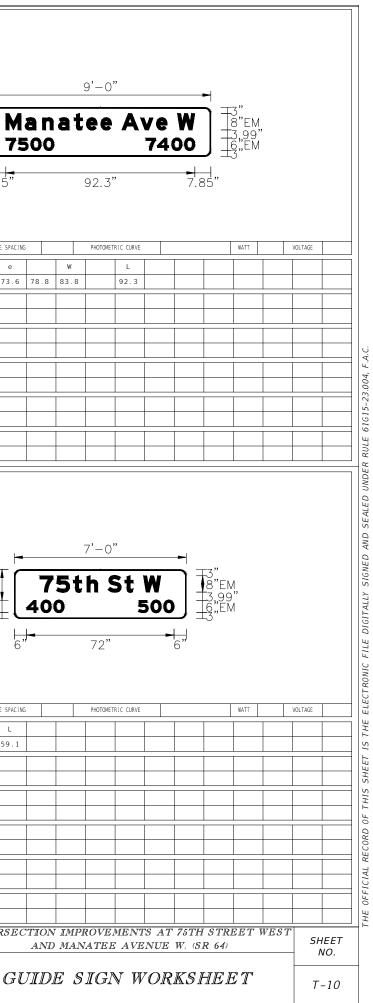


		Table	Date 11-01	1-16
			DRILLED	,
			SHAFT	
	UB (ft.)		ID	
	22.0		DC/20/5	0
			DS/2 <u>0</u> /5.	
	20.0		DS/18/5.0	J
	•		•	
	•			
			MENTS AT	
			C AVENUE	
S	TANI	DARI	D MAS	T .
S.S.	SEMB	LIE	S DAT.	A

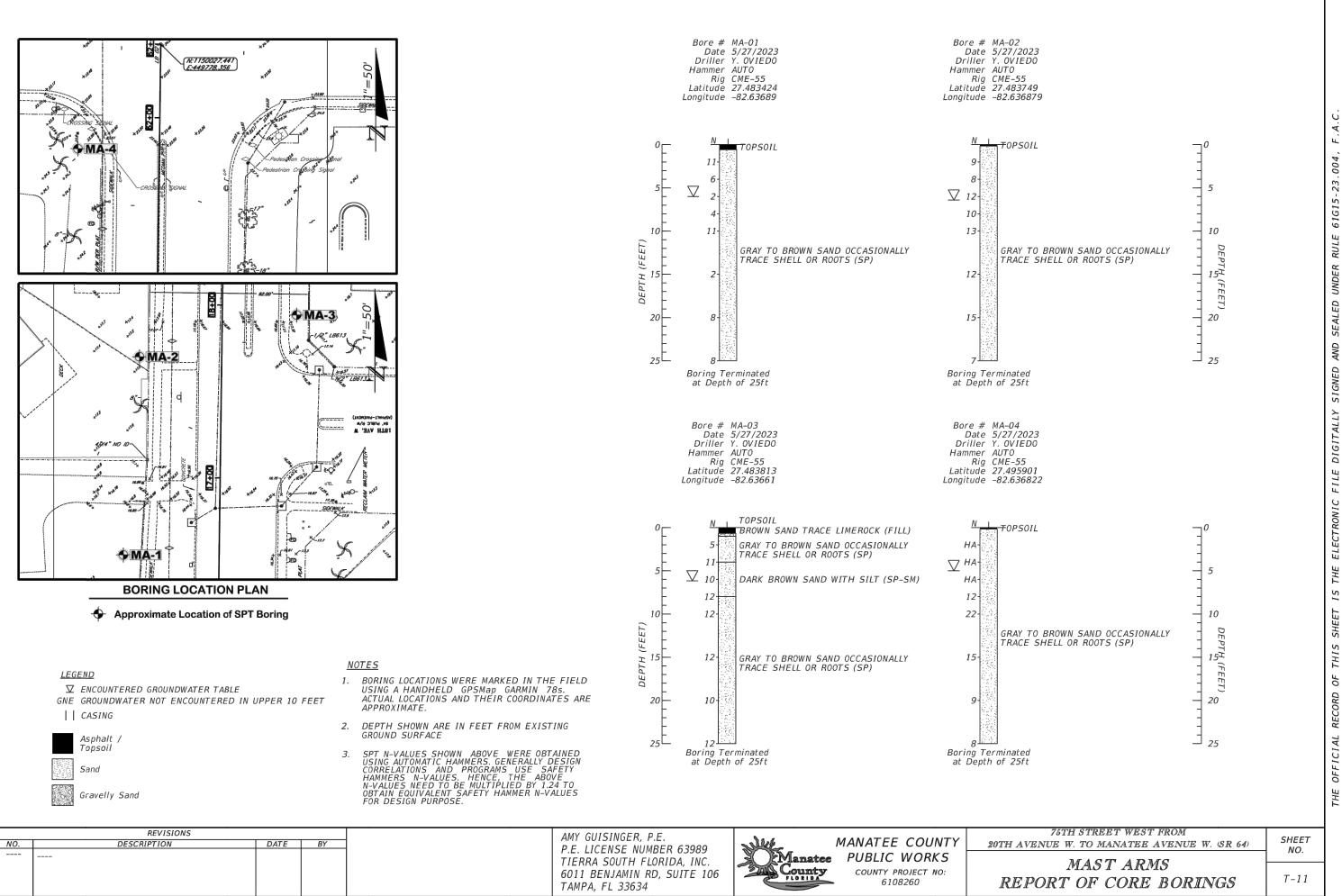


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SIGN NAME	A		QTY /	sign Number	STATION((S)																	SIGN NAME	В		QTY /	SIGN Number	STATION(S)					
PAN	IEL	BORDER			N/A																		PANEL		BORDER			N/A						
WIDTH	9'-0"	WIDTH	0.5″																					0'-0"	WIDTH	0.5″								
HEIGHT	2'-0"	RADII	3"																				HEIGHT 2	2'-0"	RADII	3"								
LEGEND	White	COLOR	White																				LEGEND И	/hite	COLOR	White								
COLOR	Green										L			9	<u>'-0"</u>								COLOR	reen										L
SYMBOL(S) AN	NGLE	X	Y	WID	HT													,"				SYMBOL(S)	AN	GLE	X	Y	WID	HT			+		
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									2'-0"	10			-		26	A	6	••	$+^{O}_{A}$													2'-0"	15"	
									5	6"E	мŤ	74	00			r	750)0		ΕM												5	6"E <u>M</u>	- '
									1		3"∓ ⊂								±3"													<u> </u>	- <u>3</u> "I	
SIGN		CLEARANCE				WERAGE					- F			9				7.85							CLEARANCE				/ERAGE					⊢
NUMBER	NUMBER OF POSTS	Edge Of Lane	u	umn size		LENGTH			BU	JRUE	^r 7.8	35"		9	2.3"			7.85)						Edge Of Lane	CU	luwn size		ENGTH			BU	RDER 3" =0.5"	7.85
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							NO.	OF LIGHT I	FIXTURES		FIXTUR	E SPACING			PHOTOMETRI	C CURVE			WAT	Г	VOLT	TAGE								NO.	OF LIGHT F	IXTURES		FIXTURE
COPY		М	а	n	а	t	e	e		А	v	e		W		L							COPY		М	а	n	а	t	е	е		A v	/
SPACE	7.8	0	9.4	17.9	25.7	33.4	39.4	46.4	51.7	56.7	65.8	73.6	78.8	83.8		92.3							SPACE	7.8	0	9.4	17.9	25.7	33.4	39.4	46.4	51.7	56.7 65	.8 7
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COPY		7	4	0	0		L																COPY		7	5	0	0		L				
SPACE	7.8	0	5.6	12.7	18.9		23.9																SPACE	7.8	0	6.1	12.2	18.5		23.5				
COPY		7	5	0	0		L																COPY		7	4	0	0		L				
SPACE	76.6	i 0	6.1	12.2	18.5	1	23.5			<u> </u>											+		SPACE	76.2		5.6	12.7	18.9		23.9		-+		+
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				SICN		(0)																		1.		0.77/	SICN		0)	[
SIGN NAME	С		QTY /	sign Number	STATION((5)																	SIGN NAME	D		QTY /	sign Number	STATION(5)					
PAN		BORDER			none																		PANEL		BORDER			none						
WIDTH	7'-0"		0.5"																							0.5"								
HEIGHT	2'-6"		3"																							3"								
LEGEND	White	COLOR	White											_	, _,,										COLOR	White								
COLOR	Green											-		7	-0									reen										
SYMBOL(S) AM	NGLE	X	Y	WID	HT						+ -		5tl				- + 7	,,,				SYMBOL(S)	AN	GLE	X	Y	WID	HT					
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SIGN	NUMBER	CLEARANCE	001	umn size	R	WERAGE				BO	RDFR	H,	-		72"								SIGN	NUMBER	CLEARANCE	co	iluwn size		/ERAGE				BORD	FR
NUMBER	OF POSTS	Edge Of Lane			i	LENGTH				R=	RDER 3"	Ь			72		t)					NUMBER (F POSTS	Edge Of Lane			L	ENGTH				R=3"	
				_							=0.5"																						TH=0	
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SPACE	12.4	0	8.2	16.3	23	28.3	33.3	41.5	45.6	50.6		59.1											SPACE	12.4	0	8.2	16.3	23	28.3	33.3	41.5	45.6	50.6	5
COPY		5	0	0		L											Ī						COPY		4	0	0		L					
SPACE	6	0	6.1	12.4		17.4			<u> </u>														SPACE	6	0	7	13.3	1	18.3			-+		
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COPY		4	0	0	<u> </u>	L		L															COPY		5	0	0		L					
SPACE	59.7	0	7	13.3		18.3																	SPACE	60.6	0	6.1	12.4		17.4					
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