STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

INDEX OF SIGNALIZATION PLANS

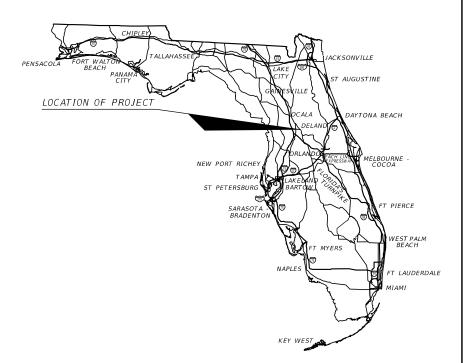
SHEET NO. SHEET DESCRIPTION T-1 T-2 T-3 T-4 - T-5 T-6 - T-7 T-8 T-9 T-10 T-11 T-12 KEY SHEET KEY SHEET
SIGNATURE SHEET
TABULATION OF QUANTITIES
GENERAL NOTES
SIGNALIZATION PLAN
GUIDE SIGN WORKSHEET
MAST ARM TABULATION
STANDARD MAST ARM ASSEMBLIES DATA TABLE
REPORT OF SPT BORINGS RESULTS FOR MASP
TRAFFIC MONITORING SITE

TRAFFIC MONITORING SITE

FINANCIAL PROJECT ID 238275-2-52-01

LAKE COUNTY (11130) STATE ROAD NO. 46

SIGNALIZATION PLANS



SIGNALIZATION PLANS ENGINEER OF RECORD:

SCOTT G. HORLANDER, P.E.
P.E. NO. 46624
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FLORIDA 32801
CONTRACT NO.: C9862
VENDOR ID.: F59-3473441 CERTIFICATE OF AUTHORIZATION NO.: 7865

FDOT PROJECT MANAGER:

CATALINA CHACON, P.E.

CONSTRUCTION	FISCAL	SHEET
CONTRACT NO.	YEAR	NO.
T5589	17	T-1



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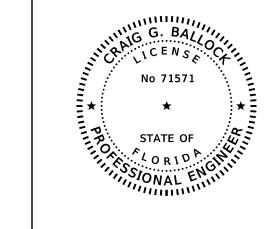
PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865 SCOTT G. HORLANDER, P.E. NO. 46624

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

SIGNALS PLANS

SHEET NO. DESCRIPTION

T-1 KEY SHEET
T-2 SIGNATURE SHEET
T-3 TABULATION OF QUANTITIES
T-4 - T-5 GENERAL NOTES
T-6 - T-7 SIGNALIZATION PLAN
T-8 GUIDE SIGN WORKSHEET
T-9 MAST ARM TABULATION
T-12 TRAFFIC MONITORING SITE



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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC) 919 LAKE BALDWIN LANE ORLANDO, FLORIDA 32814 CERTIFICATE OF AUTHORIZATION NUMBER 5882 CRAIG G. BALLOCK, P.E. NO. 71571

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

SIGNALS PLANS

SHEET NO. DESCRIPTION

T-2 SIGNATURE SHEET T-11 REPORT OF SPT BORINGS RESULTS FOR MASP



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MOFFATT & NICHOL 1025 GREENWOOD BLVD., STE 371 LAKE MARY, FLORIDA 32746 CERTIFICATE OF AUTHORIZATION NUMBER 4877 GARY SMITH, P.E. NO. 41212

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

SIGNALS PLANS

SHEET NO. DESCRIPTION

T-2 SIGNATURE SHEET T-10 STANDARD MAST ARM ASSEMBLIES DATA TABLE

REVISIONS									
DATE	DESCRIPTION	DATE	DESCRIPTION	SCOTT G					
				P.E. NO.					
				PROTEAN					
				100 EAS					
				ORLANDO					
				CERTIFI					

SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865 STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

SR 46 LAKE 238275-2-52-01

SIGNATURE SHEET

SHEET NO.

T-2

TABULATION OF QUANTITIES

NO.	PAY ITEM	DESCRIPTION	UNIT-		SHEET NUMBERS						TOTAL THIS SHEET		GRAND TOTAL	REF . SHEET								
\$39.2-11 COMOUNT, FEEL, OPEN TRENCH \$39.2-12 COMOUNT, FEEL, DIRECTIONAL BONE \$17.2-12 COMOUNT, FEEL, DIRECTIONAL BONE \$17.2-13 COMOUNT, FEEL, DIRECTIONAL \$1	NO.			•							ı											
\$30.2-17 COMOUNT, FAI, DIRECTIONAL BORE				PLAN	FINAL PLAN	FINAL	$\perp \mid PLAN \mid F$	FINAL	PLAN FINAL	PLAN	FINAL	PLAN	FINAL	PLAN FINAL	PLAN	FINAL PLAN	FINAL	PLAN FINAL	PLAN	FINAL	PLAN FINA	.L
630-2-15 COMOUT, F61, 8NIOSE MOUNT) - 2 - 11 C	CONDUIT, F&I, OPEN TRENCH	LF	675			270												945		945	
632-2-11 SIGMAL CABLE, FEI, 13*124* PI I S S S25-2-11 PULL & SPILLE BOX, FEI, 13*124* PA 15 S S S S25-2-11 PULL & SPILLE BOX, FEI, 13*124* PA 15 S S S S S25-2-12 ELEC, POKER SERVICE, FEI, US, NETER AS I S S S S S S S S S S S S S S S S S		CONDUIT, F&I, DIRECTIONAL BORE	LF				66															
633-1:12 PULL & SPLICE BOX, F61, 13*X24* EA 15 3			LF	717															717		717	
639-1-121 ELEC. FOWER SERVICE, 161, US, METER AS 1 1 1 1 1 1 1 1 1 1	? - 7 - 1	SIGNAL CABLE, F&I	PΙ	1															1		1	
FURNISHED BY FORMER COMPANY	5-2-11 F	PULL & SPLICE BOX, F&I, 13"X24"	EA	15			3												18		18	
639-2:1 ELEC, SERVICE WIRE	9-1-121 E	ELEC. POWER SERVICE, F&I, UG, METER	AS	1															1		1	
641-2-11 PRESTRESSED COMC POLE, F61, PEDESTAL	F	FURNISHED BY POWER COMPANY																				
P-11 PEDESTAL FAB.	9-2-1 E	ELEC. SERVICE WIRE	LF	106															106		106	
649-31-30 STEEL MAST ARM ASSEMBLY, F&I, EEA B B B B B B B B B B B B B B B B B B	! - 2 - 11 F	PRESTRESSED CONC POLE, F&I,	EA	1															1		1	
649-31-302 STEEL MAST ARM ASSEMBLY, F61. EA I	F	P-II PEDESTAL																				
110 W/ BACKPLATES, 46'	5 - 1 - 11 A	ALUMINUM SIGNALS POLE, F&I, PEDESTAL	EA	8															8		8	
649-31-304 STEEL MAST ARM ASSEMBLY, F&I, EA 1 110 W JABACKPLATES, 70.5' 650-1-14 TRAFFIC SIGNAL, F&I, ALUMINUM, AS 15 3 SECTION, 1 WAY 650-1-16 TRAFFIC SIGNAL, F&I, ALUMINUM, AS 45 4 SECTION, 1 WAY 651-1-11 PEDESTRIAM SIGNAL, F&I, LED-COUNTDOWN, AS 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9-31-302	STEEL MAST ARM ASSEMBLY, F&I,	EA	1															1		1	
110 W/ BACKPLATES, 70.5'	i	110 W/ BACKPLATES, 46'																				
S50-1-14 TRAFFIC SIGNAL, F&I, ALUMINUM, AS 15	9-31-304	STEEL MAST ARM ASSEMBLY, F&I,	EA	1															1		1	
SECTION, 1 WAY	i	110 W/ BACKPLATES, 70.5'																				
ESD-1-16) - 1 - 14 7	TRAFFIC SIGNAL, F&I, ALUMINUM,	AS		15														15		15	
## A SECTION, 1 WAY 653-1-11	3	3 SECTION, 1 WAY																				
FEDESTRIAM SIGNAL, F&I, LED-COUNTDOWN, AS 8 8 8 8 8 8 8 8 8) - 1 - 16 7	TRAFFIC SIGNAL, F&I, ALUMINUM,	AS		4														4		4	
1 WAY																						
660-4-11 VEHICLE DET. SYS., VIDEO, F&I, CABINET EA 1 EQUIPMENT 660-4-12 VEHICLE DET. SYS., VIDEO, F&I, ABOVE EA 6 GROUND EQUIPMENT 663-1-110 SIGNAL PRE-EMPTION, F&I, OPTICAL, AS 1 COMPLETE SYSTEM 665-1-11 PEDESTRIAN DETECTOR, F&I, STANDARD EA 8 670-5-111 TRAFFIC CONTRIL. ASSEMBLY, F&I, NEMA, AS 1 1 PRE-EMPTION 685-1-13 UNINTERRUPRTIBLE POWER SUPPLY, F&I, EA 1 LINE INTERACTIVE W, CABINET 695-6-12 TMS VEHICLE SENSOR-NON-WEIGHT, F&I EA 6 695-7-132 TMS CABINET, F&I, TYPE IIII, PEDESTAL EA 1 695-7-132 TMS CABINET, F&I, TYPE IIII, PEDESTAL EA 1 1 INTERNALLY ILLUMINATED SIGN, F&I, EA 6 6 695-7-22 INTERNALLY ILLUMINATED SIGN, F&I, EA 6 6	3 - 1 - 1 1 F	PEDESTRIAN SIGNAL, F&I, LED-COUNTDOWN,	AS		8														8		8	
EQUIPMENT	1	1 WAY																				
660-4-12 VEHICLE DET. SYS., VIDEO, F&I, ABOVE EA 6 GROUND EQUIPMENT COMPLETE SYSTEM 665-1-11 PEDESTRIAN DETECTOR, F&I, STANDARD EA 8 670-5-111 TRAFFIC CONTRL. ASSEMBLY, F&I, NEMA, AS 1 1 PRE-EMPTION 685-1-13 UNINTERRUPRTIBLE POWER SUPPLY, F&I, EA 1 LINE INTERACTIVE W/ CABINET 695-6-12 TMS VEHICLE SENSOR-NON-WEIGHT, F&I EA 6 695-7-132 TMS CABINET, F&I, TYPE III, PEDESTAL EA 1 700-5-22 INTERNALLY ILLUMINATED SIGN, F&I, EA 6 69 1 1 TERNALLY ILLUMINATED SIGN, F&I, EA 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			EA	1															1		1	
GROUND EQUIPMENT																						
663-1-110 SIGNAL PRE-EMPTION, F&I, OPTICAL, AS 1 COMPLETE SYSTEM COMPLETE SYSTEM 665-1-11 PEDESTRIAN DETECTOR, F&I, STANDARD EA 8 670-5-111 TRAFFIC CONTRL. ASSEMBLY, F&I, NEMA, AS 1 1 PRE-EMPTION 685-1-13 UNINTERRUPRT IBLE POWER SUPPLY, F&I, EA 1 LINE INTERACTIVE W/ CABINET 695-1-1 TMS VEHICLE SENSOR-NON-WEIGHT, F&I EA 6 695-6-12 TMS INDUCTIVE LOOP ASSEMBLY, F&I, AS 6 695-7-132 TMS CABINET, F&I, TYPE III, PEDESTAL EA 1 700-5-22 INTERNALLY ILLUMINATED SIGN, F&I, EA 6 6 6)-4-12 V	VEHICLE DET. SYS., VIDEO, F&I, ABOVE	EA	6															6		6	
COMPLETE SYSTEM	C	GROUND EQUIPMENT																				
665-1-11 PEDESTRIAN DETECTOR, F&I, STANDARD EA 8 670-5-111 TRAFFIC CONTRL. ASSEMBLY, F&I, NEMA, AS 1 1 PRE-EMPTION 685-1-13 UNINTERRUPRTIBLE POWER SUPPLY, F&I, EA 1 LINE INTERACTIVE W/ CABINET 695-1-1 TMS VEHICLE SENSOR-NON-WEIGHT, F&I EA 6 695-6-12 TMS INDUCTIVE LOOP ASSEMBLY, F&I, AS 6 2 LOOPS 695-7-132 TMS CABINET, F&I, TYPE III, PEDESTAL EA 1 700-5-22 INTERNALLY ILLUMINATED SIGN, F&I, EA 6			AS	1															1		1	
670-5-111 TRAFFIC CONTRL. ASSEMBLY, F&I, NEMA, AS 1 1 PRE-EMPTION 685-1-13 UNINTERRUPRTIBLE POWER SUPPLY, F&I, EA 1 LINE INTERACTIVE W/ CABINET 695-1-1 TMS VEHICLE SENSOR-NON-WEIGHT, F&I EA 6 695-6-12 TMS INDUCTIVE LOOP ASSEMBLY, F&I, AS 6 2 LOOPS 695-7-132 TMS CABINET, F&I, TYPE 111, PEDESTAL EA 1 700-5-22 INTERNALLY ILLUMINATED SIGN, F&I, EA 6	(COMPLETE SYSTEM																				
1 PRE-EMPTION 1 PRE-EMPTION 685-1-13 UNINTERRUPRTIBLE POWER SUPPLY, F&I, EA 1 LINE INTERACTIVE W/ CABINET 0 1 695-1-1 TMS VEHICLE SENSOR-NON-WEIGHT, F&I EA 6 695-6-12 TMS INDUCTIVE LOOP ASSEMBLY, F&I, AS 6 2 LOOPS 0 0 695-7-132 TMS CABINET, F&I, TYPE III, PEDESTAL EA 1 700-5-22 INTERNALLY ILLUMINATED SIGN, F&I, EA 6			EA	8															8		8	
685-1-13 UNINTERRUPTIBLE POWER SUPPLY, F&I, EA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1)-5-111 7	TRAFFIC CONTRL. ASSEMBLY, F&I, NEMA,	AS	1															1		1	
LINE INTERACTIVE W/ CABINET	1	1 PRE-EMPTION																				
695-1-1 TMS VEHICLE SENSOR-NON-WEIGHT, F&I EA 6 6 6 695-6-12 TMS INDUCTIVE LOOP ASSEMBLY, F&I, AS 6 6 2 LOOPS 695-7-132 TMS CABINET, F&I, TYPE III, PEDESTAL EA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			EA	1															1		1	
695-6-12 TMS INDUCTIVE LOOP ASSEMBLY, F&I, AS 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	L	LINE INTERACTIVE W/ CABINET																				
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695-7-132 TMS CABINET, F&I, TYPE III, PEDESTAL EA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-6-12 7	TMS INDUCTIVE LOOP ASSEMBLY, F&I,	AS				6												6		6	
700-5-22 INTERNALLY ILLUMINATED SIGN, F&I, EA 6 6	2	2 LOOPS																				
		TMS CABINET, F&I, TYPE III, PEDESTAL	EA				1												1		1	
12-18 SF) - 5 - 22 I	INTERNALLY ILLUMINATED SIGN, F&I,	EA		6														6		6	
	i	12-18 SF																				

PAY ITEM NOTES

- 1. PAY ITEM NUMBER 102-14 (IN ROADWAY PLANS) INCLUDES PROVIDING A TRAFFIC CONTROL OFFICER FOR TRAFFIC CONTROL WHEN SIGNALS ARE NOT IN USE.
- 2. PAY ITEM NUMBER 639-1-121 TO INCLUDE ALL FEES BY THE POWER COMPANY FOR ENERGIZING THE POWER SERVICE. THE CONTRACTOR SHALL VERIFY THE POWER SERVICE REQUIREMENTS (CITY OF MOUNT DORA, ELECTRIC) PRIOR TO BIDDING THE PROJECT.
- 3. PAY ITEM NUNBER 646-1-11 SHALL INCLUDE A SLIP BASE.
- 4. PAY ITEM NUMBER 665-1-11 SHALL INCLUDE FTP-68B-06.
- 5. PAY ITEM NUMBERS 660-4-12, 700-5-22, 650-1-14 AND 650-1-16 SHALL INCLUDE ALL NECESSARY HARDWARE REQUIRED FOR PROPER MOUNTING.

DATE	REVISIONS DATE DESCRIPTION DATE DESCRIPTION		SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP	DEPA	STATE OF F. ARTMENT OF TRA			SHEET NO.		
				100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	ROAD NO. SR 46	COUNTY LAKE	### FINANCIAL PROJECT ID 238275-2-52-01		QUANTITIES	T-3
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GENERAL NOTES

- CONTRACTOR IS TO NOTIFY LAKE COUNTY TRAFFIC OPERATIONS (352-742-1766) TWO BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH LAKE COUNTY TRAFFIC OPERATIONS PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT DISTRICT FIVE MAINTENANCE OFFICE AT (386) 740-3463 FOUR WEEKS PRIOR TO COMPLETION OF THE PROJECT TOREQUEST A STRUCTURE NUMBER AND SCHEDULE A POST CONSTRUCTION INSPECTION OF THE MAST ARMS.
- THE CONTRACTOR SHALL FURNISH LAKE COUNTY TRAFFIC OPERATIONS WITH EMERGENCY CONTACTS WITH PHONE NUMBERS.
- THE CONTRACTOR SHALL FURNISH LAKE COUNTY TRAFFIC OPERATIONS TWO COMPLETE SETS OF AS-BUILT PLANS THAT INCLUDE CONDUIT AND PULL BOX LOCATIONS, AT FINAL INSPECTION.
- UNLESS OTHERWISE NOTED ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO LAKE COUNTY TRAFFIC OPERATIONS AT 28127 C.R. 561, TAVARES, FL 32778 AS DIRECTED BY THE ENGINEER, EXCEPT CONCRETE POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR. CONTRACTOR IS TO NOTIFY LAKE COUNTY TRAFFIC OPERATIONS DENIS DIETZ, (352-742-1766) TWO BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH LAKE COUNTY TRAFFIC OPERATIONS PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY COLOR CODES FOR BOTH SIGNAL CABLE AND INTERCONNECT CABLE WITH LAKE COUNTY BEFORE ORDERING.
- THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND HAVE IT APPROVED BY LAKE COUNTY TRAFFIC OPERATIONS PRIOR TO POLE INSTALLATION.
- THE LOCATION OF KNOWN UTILITIES SHOWN IN THE PLANS IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING, AND LOCATING ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.

UTILITY/AGENCY OWNERS:	COMPANY CONTACT:	TELEPHONE NUMBER:
CENTURYLINK	WADE RICH	(407) 881-8383
CITY OF MOUNT DORA - WATER/SEWER	JOHN PETERS	(352) 735-7151
CITY OF MOUNT DORA - ELECTRIC	CHARLES REVELL	(352) 735-7155
CITY OF LEESBURG - FIBER OPTIC	JIMMY FEAGLE	(352) 435-9440
COMCAST COMMUNICATIONS	SCOTT OSEBOLD	(352) 315-8527
DUKE ENERGY - DISTRIBUTION	MIKE EDKIN	(407) 942-9553
DUKE ENERGY - TRANSMISSION	ED BURKOT	(407) 942-9453
TECO/PEOPLES GAS	BRUCE STOUT	(407) 420-2678

CONTROLLER

DATE

- A MANUAL PUSH-BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
- THE CONTROLLER CABINET SHALL BE ORIENTED SO THAT THE DOOR OPENS AWAY FROM THE INTERSECTION.
- A GENERATOR PAD, 3' X 3' X 4" CONCRETE SHALL BE INSTALLED WITH 5/8" EYEBOLT INSTALLED IN THE PAD ADJACENT TO THE CABINET BASE. COST OF CONCRETE PAD TO BE INCLUDED WITH PAY ITEM 670-5-111
- 4. THE MOUNTING OF ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL CABINET SHALL BE PROHIBITED.
- THE CONTRACTOR SHALL CONTACT LAKE COUNTY TRAFFIC OPERATIONS AT (352) 741-1766 FOR INFORMATION ON LAKE COUNTY'S PREFERRED SIGNAL EQUIPMENT FOR SIGNAL SYSTEM SYNCHRONIZATION, COMMUNICATION AND MAINTENANCE PRIOR TO BIDDING THE PLANS.
- 6. THE CONTROLLER ASSEMBLY SHALL BE A "LAKE COUNTY" NAZTEC REGIONAL TS2-1; WITH A TS2-2 CONTROLLER ETHERNET ENABLED AND WITH ETHERNET SWITCH BYPASS CAPABILITIES FOR COUNTY CLOSED LOOP SYSTEM, TO INCLUDE A GENERATOR SWITCH BOX PANEL. TYPE 6 CABINET.
- UNINTERRUPTABLE POWER SUPPLY (UPS) SHALL BE STAND ALONE WITHIN ITS OWN CABINET, INSTALLED ON A CONCRETE PAD ADJACENT TO THE CABINET BASE. THE UNINTERRUPTABLE POWER SUPPLY SHALL BE ON THE FDOT APPROVED PRODUCT LIST (APL).

DESCRIPTION

- THE CABINET CONCRETE BASE SHALL BE A MINIMUM OF 32' x 48' TO ACCOMMODATE TYPE 6 CABINETS.
- GROUNDING FOR THE CONTROLLER ASSEMBLY SHALL MEASURE 25 OHMS, OR LESS.
- 10. THE INSIDE LANE DISCONNECT SHALL BE WIRED FOR FUTURE 5 SECTION HEADS.

REVISIONS

DATE

DESCRIPTION

PED. FEATURES

- PEDESTRIAN SIGNAL ASSEMBLIES SHALL BE CAST ALUMINUM WITH FULL HAND/PERSON LED'S WITH COUNT DOWN INDICATION
- ALL PEDESTRIAN SIGNAL HEADS SHALL HAVE LOUVERS AND BE COUNTDOWN LED SIGNALS WITH THE PROPER COUNTDOWN PEDESTRIAN SIGNAGE. ALL PEDESTRIAN SIGNALS NOT MOUNTED ON SIGNAL POLES OR MAST ARM POLES SHALL BE THE BREAKAWAY TYPE COMMONLY REFERRED TO AS A "T-BASE". THIS T-BASE WILL HAVE AN ACCESS DOOR FOR WIRING AND MAINTENANCE.
- 3. THREE (3) SPARE CONDUCTORS ARE TO BE RUN TO THE FARTHEST PEDESTRIAN SIGNAL HEAD.

SIGNAL CABLE, LOOPS, CONDUIT & PULL BOXES

- TYPE 'F' LOOPS SHALL BE 40-FOOT X 6-FOOT AND EXTEND 5 FEET BEYOND THE STOP BAR.
- DELAY TIMES FOR LOOPS MARKED "DELAY" SHALL BE SET TO 5 SECONDS. ALL OTHERS SHALL BE SET TO ZERO.
- PULL BOXES AND COVERS SHALL BE NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE.
- THE FAR ADVANCE TYPE "B" LOOPS ARE TO BE WIRED TO THE SYSTEM PANEL AND SHALL FUNCTION AS BOTH SYSTEM LOOPS AND ADVANCED LOOPS, ADDITIONALLY, EACH "B" LOOP SHALL HAVE SEPARATE DETECTOR CHANNEL.
- WHENEVER POSSIBLE, ALL LOOPS AND SYSTEM SENSORS SHALL BE CUT INTO THE ASPHALTIC CONCRETE STRUCTURAL COURSE PRIOR TO PLACEMENT OF THE FRICTION COURSE. ALL LOOP LEAD-IN CABLES SHALL BE PLACED IN CONDUIT.
- LOOP HOME RUNS SHALL NOT BE CUT INTO THE RADIUS.
- IF LOOPS ARE TO BE DESTROYED DURING CONSTRUCTION THE CONTRACTOR SHALL FURNISH, INSTALL. AND MAINTAIN TEMPORARY VEHICLE DETECTION.

SIGNAL HEADS

- 1. SIGNAL HEADS SHALL BE WIRED DIRECTLY TO THE TERMINAL BLOCK. THE USE OF "JONES" PLUGS PROHIBITED.
- DISCONNECTS SHALL OPEN FROM THE SIGNAL FACE. (NOT FROM THE REAR)
- VEHICLE SIGNAL HEAD ASSEMBLES SHALL BE BLACK, CAST ALUMINUM, WITH TUNNEL VISORS, AND LED'S FOR ALL INDICATIONS, UNLESS OTHERWISE NOTED.

ITERNALLY ILLUMINATED STREET NAME SIGNS

INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE POWERED BY A SEPARATE CIRCUIT BREAKER AND BE DESIGNED AND INSTALLED IN ACCORDANCE WITH LAKE COUNTY PUBLIC WORKS INTERNALLY ILLUMINATED STREET NAME SIGN DETAIL. A PHOTOCELL SHALL BE INSTALLED NEAR THE ELECTRICAL SERVICE WITHIN REACH OF A LIFT TRUCK. CARE TO BE GIVEN TO INSTALL WHERE STREET LIGHTING DOES NOT AFFECT SIGN OPERATION.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID 100 EAST PINE STREET, SUITE 600 SR 46 LAKE 238275-2-52-01 CERTIFICATE OF AUTHORIZATION NUMBER 7865

SCOTT G. HORLANDER, P.E.

PROTEAN DESIGN GROUP

ORLANDO FLORIDA 32801

P.E. NO. 46624

GENERAL NOTES (1)

SHEET NO.

T-4

LEGEND:

PROPOSED POWER SOURCE & CONC. PEDESTAL

CONTROLLER CABINET

CONDUIT (OPEN TRENCH)

CONDUIT (DIRECTIONAL BORE)

— CONDUIT (BRIDGE MOUNT)

PULL BOX (SIGNALS, VIDEO, POWER)

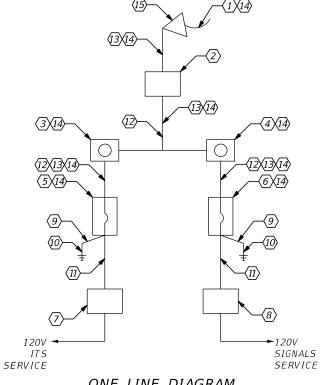
PULL BOX (COMMUNICATIONS)

VIDEO DETECTION ZONE

VEHICLE DETECTION CAMERA

TRAFFIC SIGNAL





ONE LINE DIAGRAM SEE INDEX 17736 FOR ADDITIONAL DETAILS

KEY NOTES:

- 120/240V, SINGLE PHASE, 3 WIRE ELECTRIC DISTRIBUTION OVERHEAD SERVICE DROP.
- (2) ELECTRICAL SERVICE POINT. PULL BOX BY CONTRACTOR.
- (3) ITS METER SOCKET.
- 4 SIGNALS METER SOCKET.
- 5 ITS SERVICE MAIN DISCONNECT.
- 6 SIGNALS SERVICE MAIN DISCONNECT.
- 7 ITS PULL BOX.
- 8 SIGNALS PULL BOX.
- (9) #6 AWG INSULATED COPPER GROUND WIRE IN 1/2" RGS CONDUIT.
- (10) GROUNDING ELECTRODE.
- 11 UNDERGROUND FEEDER CONDUIT.
- (12) CONCRETE POLE.
- (3) SERVICE FEEDER IN RGS CONDUIT.
- 14 MOUNT ON RISER POLE.
- (15) WEATHERHEAD.

REVISIONS								
DATE	DESCRIPTION	DATE	DESCRIPTION	SCOTT G. HO P.E. NO. 466. PROTEAN DE 100 EAST PI ORLANDO FLC CERTIFICATE				

HORLANDER, P.E. DESIGN GROUP PINE STREET, SUITE 600 ORIDA 32801 TE OF AUTHORIZATION NUMBER 7865

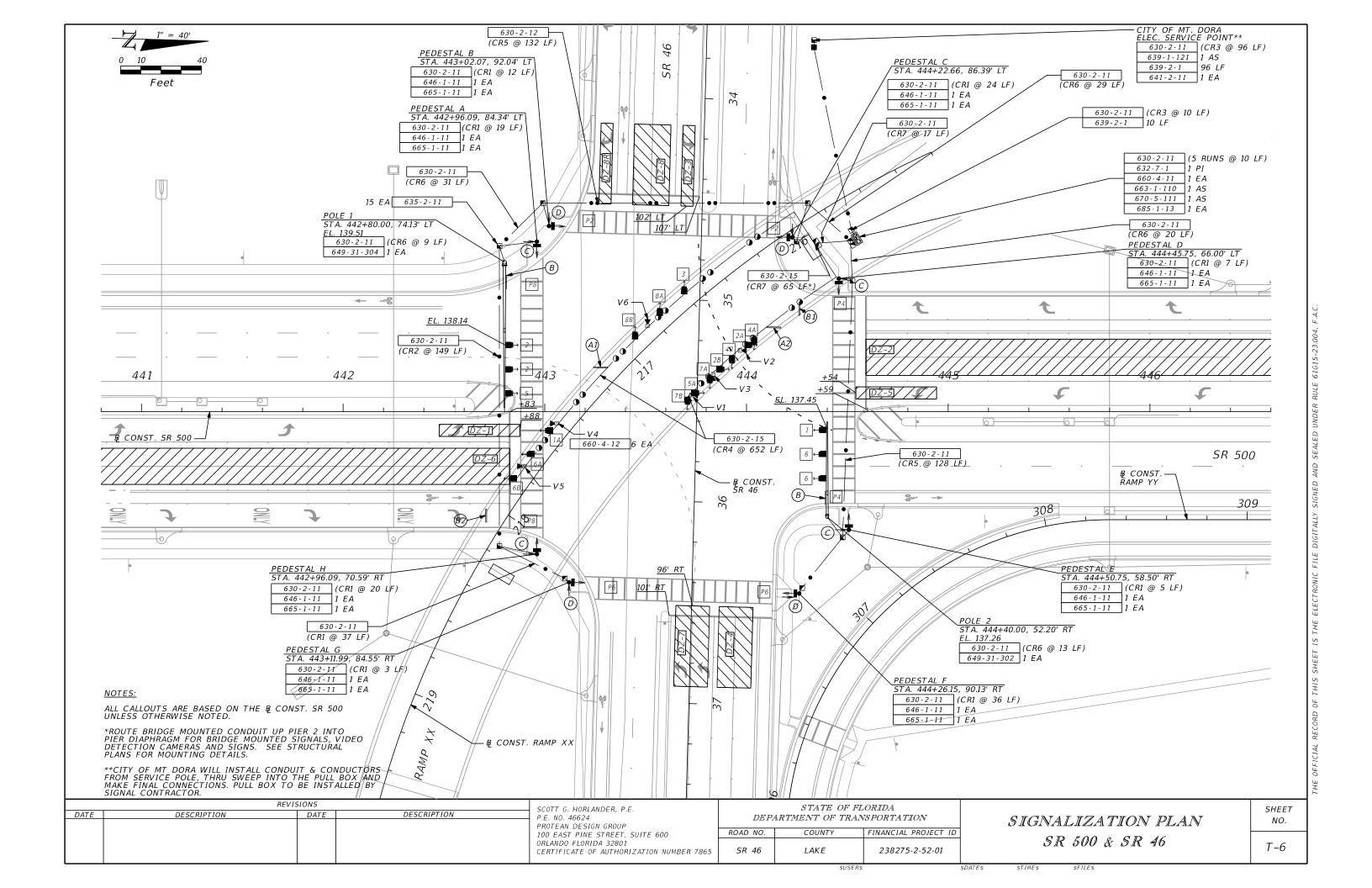
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID LAKE 238275-2-52-01

GENERAL NOTES (2)

SHEET NO.

T-5

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<u>NOTES</u>:

- THE MAJOR STREET IS SR 500, MOVEMENTS 2 AND 6. THE MINOR STREET IS SR 46, MOVEMENTS 4 AND 8.
- THE DIMENSIONS FOR THE VIDEO DETECTION ZONES ARE AS FOLLOWS: DETECTION ZONES 1, 3, 5 & 8R = 6' x 40'
 DETECTION ZONES 2 & 6 = 30' x 360'
 DETECTION ZONES 4, 7 & 8 = 18' x 40'
- TRAFFIC SIGNAL HEADS (650-1-AB) & VEHICLE VIDEO DETECTION CAMERAS (660-4-12) SHALL BE MOUNTED TO THE BOX GIRDER WEBS. INTERNALLY ILLUMINATED STREET NAME SIGNS (700-5-22) SHALL BE MOUNTED TO BRIDGE UNDERDECK. SEE STRUCTURAL PLANS FOR MOUNTING DETAILS AND TABLES 1, 2 & 3 (THIS SHEET) FOR MOUNTING LOCATIONS.

LEGEND:

DZ = VIDEO DETECTION ZONE CR = CONDUIT RUNCR1: 1 RUN W/

(1) 2" CONDUIT - SIGNALS CR2: 2 RUNS W/

(1) 2" CONDUIT - SIGNALS (1) 2" CONDUIT - SPARE

CR3: 1 RUN W/ (1) 2" CONDUIT - POWER CONDUCTORS

CR4: 2 RUNS W/
(1) 2" CONDUIT - SIGNALS
(1) 2" CONDUIT - VIDEO DETECTION

CR5: 2 RUNS W/

(1) 2" CONDUIT - SIGNALS & SIGN (1) 2" CONDUIT - SPARE

CR6: 1 RUN W/

(1) 2" CONDUIT - SIGNALS & SIGN CR7: 3 RUNS W/

(1) 2" CONDUIT - SIGNALS

(1) 2" CONDUIT - SIGN (1) 2" CONDUIT - VIDEO DETECTION

TABLE 1: TRAFFIC SIGNAL HEAD MOUNTING LOCATION

TRAFFIC SIGNAL HEAD	STATION*	OFFSL	₹ <i>T</i> *	VIDEO DETECTOR CAMERA	
1 A	217+53.2	6.8'	RT	V 1	2
2A	216+54.1	31.8'	LT	V2	4
2B	216+73.6	31.8'	LT	V3	2
3	216+60.6	6.8'	RT	V 4	-
4A	216+47.2	31.8'	LT	V 5	2
4B	216+62.6	31.8'	LT	V 6	Ι.
5 <i>A</i>	216+91.9	31.8'	LT	VO	4
6 A	217+67.9	6.8'	RT	*BASED ON	
6B	217+82.6	6.8'	RT	DELAY TIME ADJUSTING	
7 A	216+78.4	31.8'	LT		

6.8' RT

6.8' RT *BASED ON B CONST. RAMP XX

216+76.6

216+93.3

7 B

8 A

8B

TABLE 2: VIDEO DETECTOR CHART

	VIDEO DETECTOR CAMERA	STATION*	OFFSET*	DETECTION ZONE	DELAY TIME (SEC)
	V 1	216+93.3	31.8' LT	DZ 5	-
	V2	216+58.3	31.8' LT	DZ 2	-
	V 3	216+76.0	31.8' LT	DZ 4 & 7	-
	V4	217+48.9	6.8' RT	DZ 1	-
	V 5	217+75.2	6.8' RT	DZ 6	1
	V6	216+84.9	6.8' RT	DZ 3 & 8	1
			0.0 KI	DZ 8R	5

B CONST. RAMP XX IS INITIAL AND MAY REQUIRE FIELD AS DIRECTED BY PROJECT ENGINEER.

ILLUMINA	3: INTER TED STRE UNTING L	ET NAME
STREET NAME SIGN	STATION*	OFFSET*
A1	217+14.6	9.5' RT
A2	216+36.1	34.3' LT
В1	216+18.9	34.5' LT
B2	218+06.1	9.2' RT

*BASED ON B CONST. RAMP XX

US 441

216+94.7 | 31.8' LT

FTP-68B-06

TIMING FUNCTION

EXTENSION

ALL RED

RECALL

MOVEMENT NUMBER

MINIMUM GREEN

MAXIMUM GREEN 1

MAXIMUM GREEN 2

PEDESTRIAN WALK PED. CLEARANCE

SR 46 FTP-68B-06

TABLE 4: CONTROLLER TIMINGS

YELLOW CLEARANCE 5 . 1 5 . 1 4 . 9 4 . 4 5 . 1 5 . 1 4 . 4 4 . 9

29

MIN

1 2 3 4 5 6 7 8

5 17 5 8 5 17 5 8

3.03.03.03.03.03.03.03.03.0

20 50 20 40 20 50 20 40

. 4 2 . 7 5 . 3 3 . 4 5 . 3 2 . 7 5 . 7 3 . 4

26

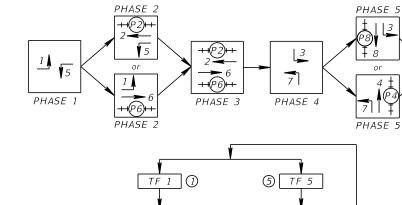
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39

30

D

S.O.P. 10



Y	
TF 1 1	⑤ <i>TF 5</i>
TF 2 2	6 TF 6
TF 3 3	
TF 4 4	8
Y	

ITERNALLY ILLUMINATED STREET NAME SIGNS SEE GUIDE SIGN WORK SHEET FOR DETAILS

(A1) & (A2)



700-5-22 2 EA

(B) (B1) & (B2)

DATE

700-5-22 4 EA

INTERNALLY ILLUMINATED STREET NAME SIGN NOTES:

DESCRIPTION

- 1. SIGN "B" ON MAST ARM POLES 1 AND 2 SHALL BE DOUBLE SIDED.
- 2. ALL SIGNS SHALL BE MOUNTED SUCH THAT THEY ARE NORMAL TO THE APPROACHING TRAFFIC.
- 3. WIRING FOR THE SIGNS MOUNTED TO THE BRIDGE UNDERDECK SHALL BE ROUTED THROUGH THE BRIDGE BARRIER WALL AND BRIDGE DECK. SEE STRUCTURAL PLANS FOR ADDITIONAL DETAILS.

REVISIONS

DATE

SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP	DEPA
100 EAST PINE STREET, SUITE 600	ROAD NO.
ORLANDO FLORIDA 32801 CERTIFICATE DE AUTHORIZATION NUMBER 7865	SR 46

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION												
ROAD NO.	COUNTY	FINANCIAL PROJECT ID										
SR 46	LAKE	238275-2-52-01										

SIGNALIZATION PLAN SR 500 & SR 46 (CONT.)

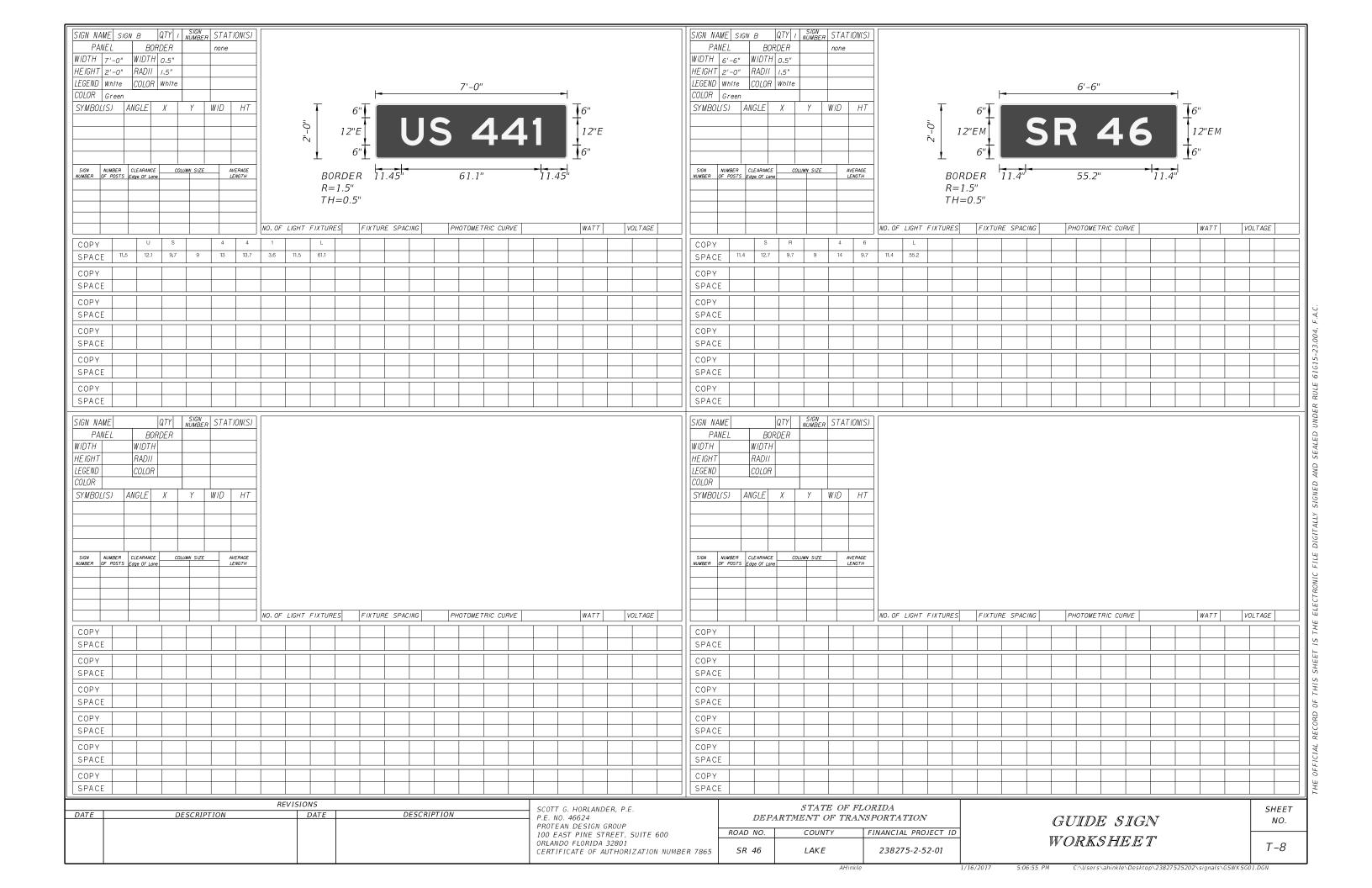
SHEET NO. T-7

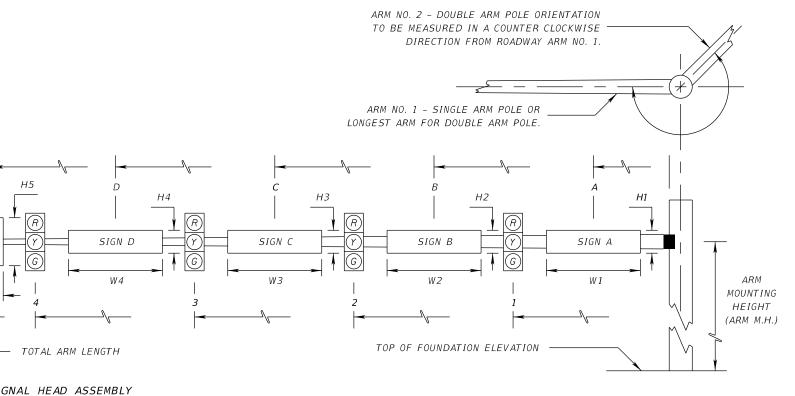
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CERTIFICATE OF AUTHORIZATION NUMBER 7865

DESCRIPTION

PHASE 6





* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

						SIGNAL DATA							SIGN DATA																					
ID SHEET LOCATION TOP OF FOUND. ARM CROWN NO. BY STA.					SIGNAL	SIGNAL V/H PLATES SIGNAL Y/N Y/N 1 * 2 * 3 * 4 * 5 * LE								TOTAL	TOTAL ARM BETWEEN DUAL ARM, LENGTH M.H. 90/270	ANGLE BETWEEN	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN								PAINT									
NO .	NO.	BY STA.	ELEVATION	NO.	ELEV.	V/H	Y/N	Y/N	1	*	2	*	3	*	4	*	5	*	LENGTH	М.Н.	DUAL ARMS 90/270	Α	H1	W 1	В	H2	W2	С	Н3	W3	D	Н4	W4	COLOR
1	T - 5	442+80.00, 74.13' LT	139.51	1 1	138.14	! V	/ Y	'N	39.5	3	51.5	5 3	63.	5 4					70.5	19	9	8	3 2	6.5										
				2																														
2	T - 5	444+40.00, 52.20' RT	137.26	5 1	137.45	V	/ Y	N	18.0	3	30.0) 3	42.	0 4					46	2.	1	8	3 2	6.5										
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	REVIS	SIONS		SCOTT G. HORLANDER, P.E.	STATE OF FLORIDA						
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. NO. 46624	DEPARTMENT OF TRANSPORTATION						
				PROTEAN DESIGN GROUP	227						
			100 EAST PINE STREET, SUITE 600	ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
				ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	SR 46	LAKE	238275-2-52-01				

MAST ARM TABULATION

SHEET NO.

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STANDARD MAST ARM ASSEMBLIES DATA TABLE														Table Da	Table Date 01-01-12						
STRUCTURE	ASSEMBLY -	FIRST ARM SECO				ECOND AR	М			POLE				SPECIAL DRILLED SHAFT					FT (4)		
ID NUMBERS	NUMBERS	ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (in.)	ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (in.)	UF (deg)	LL (deg)	POLE TYPE	UAA ⁽³⁾ (ft.)	UB (ft.)	UCA ⁽³⁾ (in.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD (in.)		
POLE 1	E6-T4	E6	-	-	-	-	-	-	-	Т4	22.0	19.0	18.95	16.5	-	-	-	-	-		
POLE 2	E3-T2	E3	-	-	-	-	-	-	-	T2	24.0	21.0	12.67	16.5	-	-	-	-	-		

TABLE NOTES [Notes Date 07-01-14]:

1. Assembly Number Legend

Single Arm:

$$Arm\ Type\ -\ Pole\ Type\ =\ D\#\ -\ S\#$$

 $=\ E\#\ -\ T\#$

- 2. If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the mast arm length shall be shortened from "FA" to "FAA" and the tip diameter shall be increased from "FB" to "FBA".
- 3. If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".
- 4. The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft" data information if site conditions dictate drilled shafts with additional foundation capacity.

Classification = Cohesionless (Fine Sand) Friction Angle = 30 Degrees (30°)

Unit Weight = 50 lbs. / cu. ft. (assumed saturated) N-blowcount = 15

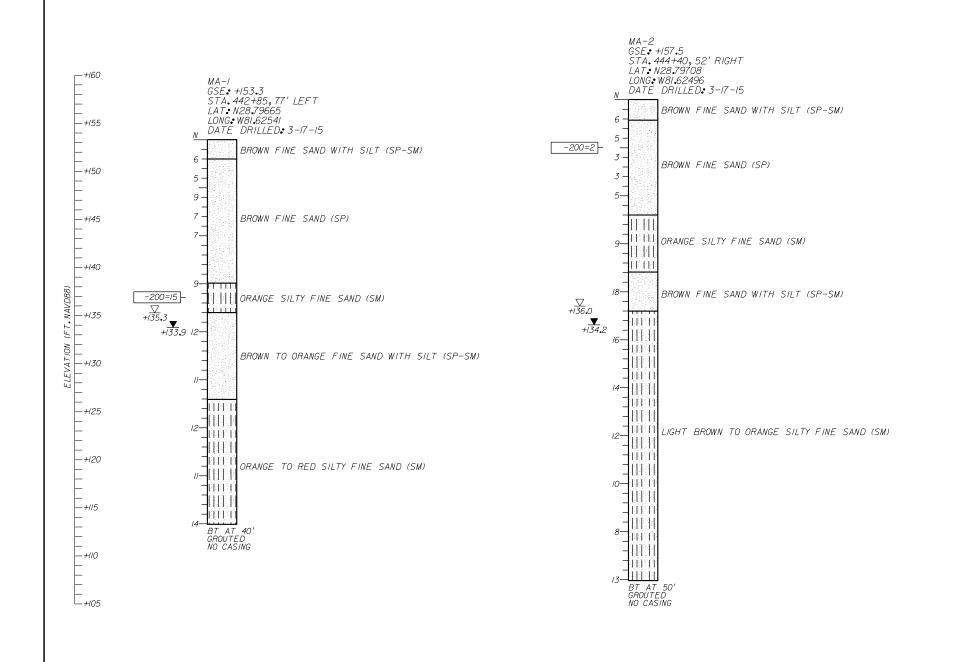
GENERAL NOTES:

- 1. 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.
- 2. Work with Index Nos. 17743 and 17745.

	REVIS	SIONS		MOFFATT & NICHOL	STATE OF FLORIDA						
DATE	DESCRIPTION	DATE	DESCRIPTION	1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746	DEPARTMENT OF TRANSPORTATION						
				PHONE (407) 562-2030				1			
			CERT. OF AUTH. NO. 4877		ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
				ENGINEER OF RECORD: GARY W. SMITH, P.E. FL REGISTRATION NO. 41212	SR 46	LAKE	238275-2-52-01				
						ALL! 1.1		4 4			

STANDARD MAST ARM ASSEMBLIES DATA TABLE SHEET NO.

T-10



DESCRIPTION

CONSULTANTS, INC. (GEC)

919 Lake Baldwin Lane Orlando, FL. 32814 T 407-898-1818 F 407-898-1837

Certificate of Authorization No. 5882

CRAIG G. BALLOCK P.E. 71571

REVISIONS

DATE

DESCRIPTION

DATE

LEGEND

 $\frac{\nabla}{\sqrt{15.3}}$ ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT. NAVD88)

TISS.9 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING

GSE GROUND SURFACE ELEVATION (FT. NAVD88)

N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT

(SP) UNIFIED SOIL CLASSIFICATION SYMBOL

BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED

-200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM I-T 088)

SOILS LEGEND





SAND AND SILT

GENERAL NOTES

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

THE BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY GPS UNIT (TRIMBLE 7X) FOR HORIZONTAL AND VERTICAL CONTROL. GROUND SURFACE ELEVATIONS ESTIMATED FROM PROJECT CROSS SECTIONS. BORING LOCATION (SB-I) REFERENCES SR 46 CENTERLINE. BORING LOCATION (SB-2) REFERENCES US 441 CENTERLINE.

BASED ON REVIEW OF THE U.S. GEOLOGICAL SURVEY MAP ENTITLED "POTENTIOMETRIC SURFACE OF THE U.S. GEOLOGICAL SURVEY MAP ENTITLED FOTENTIAMETRIC SURFACE
OF THE UPPER FLORIDAN AQUIFER IN ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND
VICINITY, FLORIDA, SEPTEMBER 2008" FOR THE PROJECT AREA, THE MAXIMUM ELEVATION OF THE
ARTESIAN HEAD IS ESTIMATED TO BE +55 FT. NAVD88. THE CONTRACTOR SHALL BE PREPARED
TO HANDLE ARTESIAN HEAD LEVELS UP TO +55 FT. NAVD88.

SPLIT SPOON SAMPLER: INSIDE DIAMETER: 1.375 IN. OUTSIDE DIAMETER: 2.0 IN.

AVERAGE HAMMER DROP: 30 IN. HAMMER WEIGHT: 140 LBS. HAMMER TYPE: AUTOMATIC

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

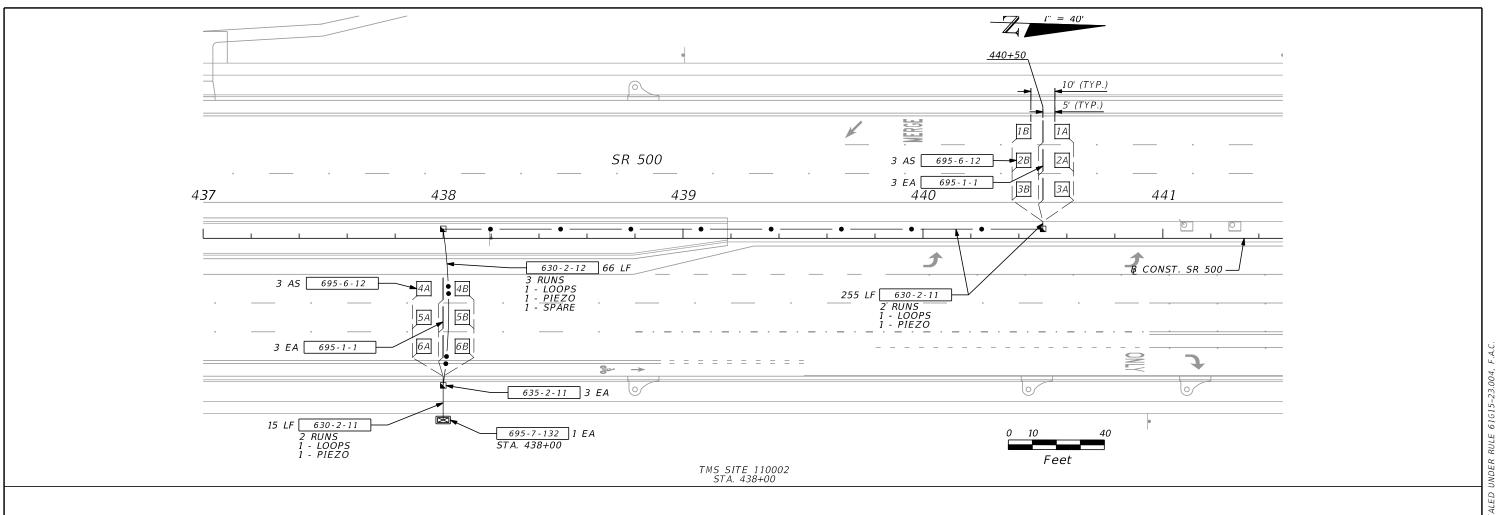
GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-3 3-8 8-24 24-40 0VER 40	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-1 1-3 3-6 6-12 12-24 OVER 24	VERY SOFT SOFT FIRM STIFF VERY STIFF HARD

FIGURE 32 SHEET

GEOTECHNICAL AND ENVIRONMENTAL STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID 238275-2-52-01

REPORT OF SPT BORING RESULTS FOR MASP

NO. T-11



STANDARD NOTES FOR TRAFFIC MONITORING SITES

- 1. NOTIFY THE DISTRICT TRAFFIC OPERATIONS OFFICE ALONG WITH PROJECT ADMINISTRATOR AT LEAST TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK. CONTACT THE DISTRICT DATA COLLECTION MANAGER AT (386) 943-5380 TO CONFIRM LOCATION. ANY CHANGES MUST BE APPROVED BY THE DISTRICT TRAFFIC OPERATIONS OFFICE.
- 2. PROVIDE A NEW PEDESTAL-MOUNTED TYPE III TRAFFIC COUNT CABINET W/ 2 BACKPLANES, FURNISHED AND INSTALLED PER DESIGN STANDARDS.
- 3. IMMEDIATELY AFTER COMPLETION OF INSTALLATION, CONTACT THE DISTRICT DATA COLLECTION MANAGER @ 386-943-5380 PRIOR TO FINAL ACCEPTANCE.

	REVIS	SIONS		SCOTT G. HORLANDER, P.E.	STATE OF FLORIDA						
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. NO. 46624	DFD.	NSPORTATION					
			PROTEAN DESIGN GROUP		103311	401 01(12111014					
				100 EAST PINE STREET, SUITE 600	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
				ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	SR 46	LAKE	238275-2-52-01				

TRAFFIC MONITORING SITE

NO. T-12

SHEET