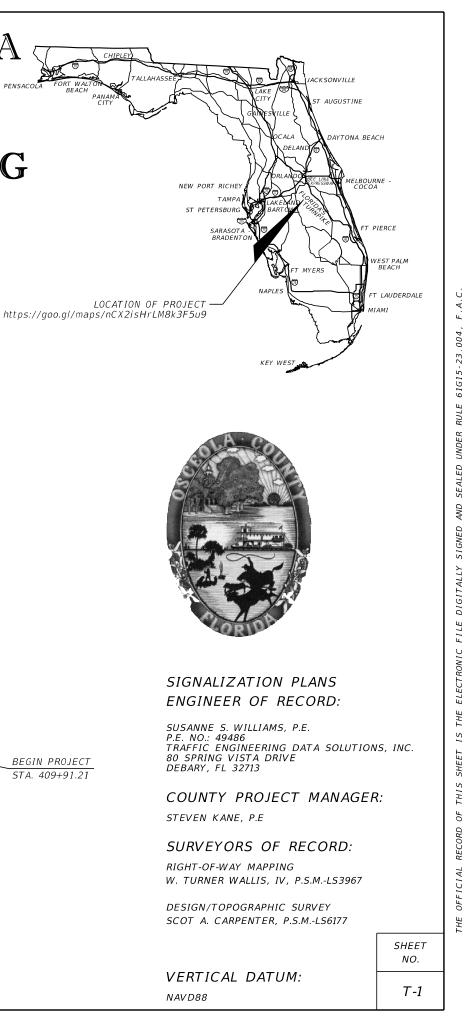
# OSCEOLA COUNTY, FLORIDA



# TRANSPORTATION AND TRANSIT CONSTRUCTION PLANS FOR POINCIANA BLVD. WIDENING PS-20-11503-DG SIGNALIZATION PLANS

# SHEET NO. SHEET DESCRIPTION SHEET NO. SHEET DESCRIPTION 28 KEY SHEET T-1 TO KISSIMMEE TO KISSIMMEE KEY SHEET SIGNATURE SHEET TABULATION OF QUANTITIES GENERAL NOTES SIGNALIZATION PLAN QUADRANT DETAILS or lo T-2 T-3 T-4 - T-5 T-6 - T-9 T-10 - T-11 END PROJECT STA. 709+92.1 STANDARD MAST ARM TABULATION STANDARD MAST ARM ASSEMBLIES DATA TABLE GUIDE SIGN WORK SHEET SOIL BORINGS REPORT Pleasant Hill

R 26 S

R 27 S

# GOVERNING STANDARD PLANS:

INDEX OF SIGNALIZATION PLANS

Florida Department of Transportation, FY 2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

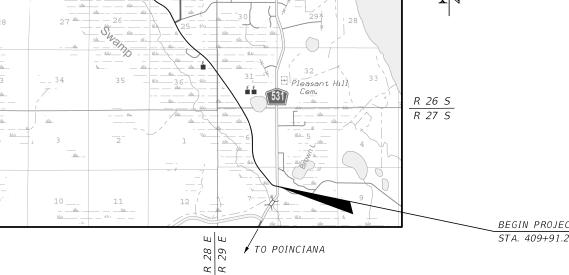
Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: NA

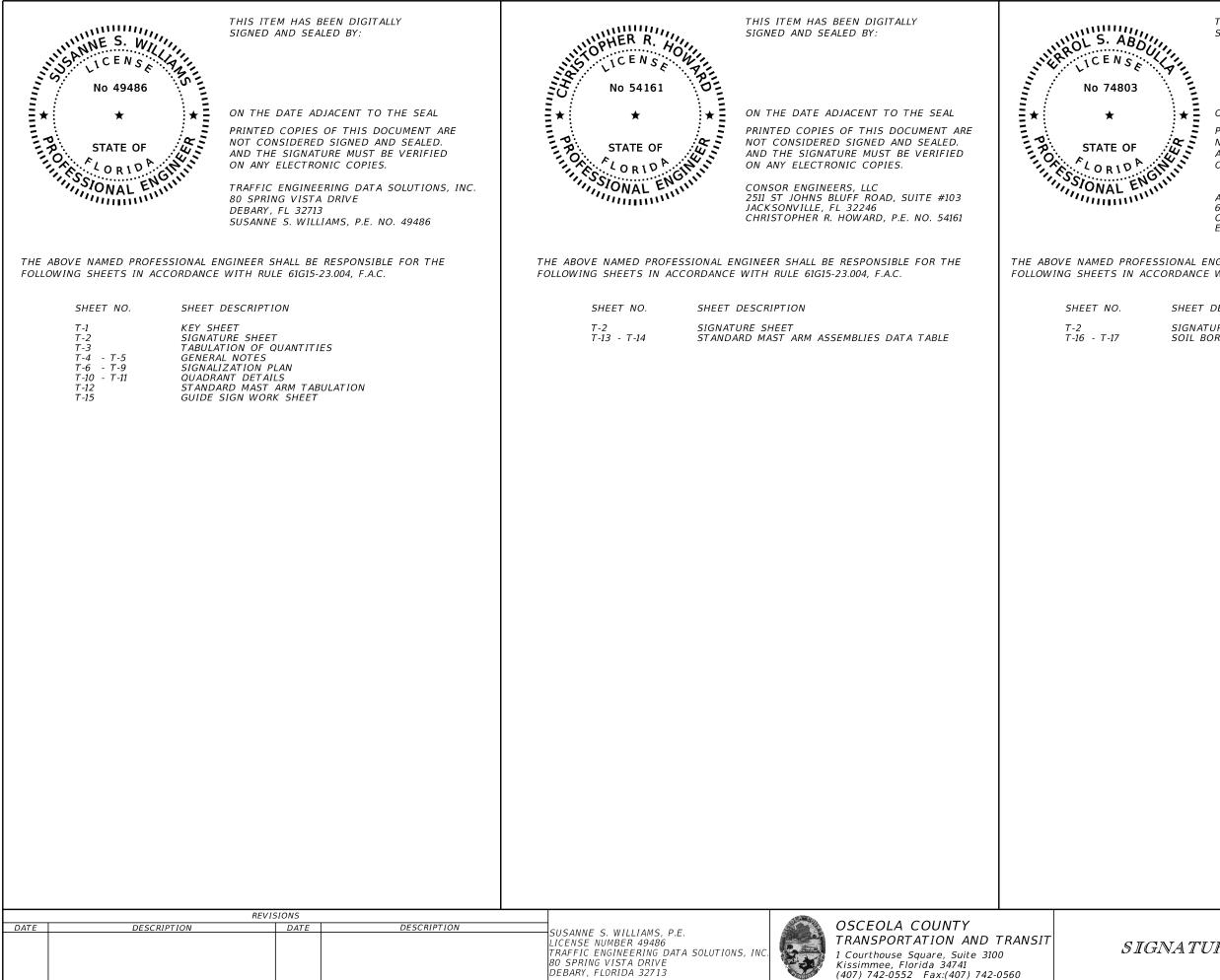
Standard Plans for Bridge Construction are included in the Structures Plans Component

# GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2022 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks



# 2/20/2023 4:36:37 PM 10211



10211 N.

### 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.

AWK CONSULTING ENGINEERS, INC. 6457 HAZELTINE NATIONAL DRIVE, SUITE 150 ORLANDO, FL 32822 ERROL S. ABDULLA, P.E. NO. 74803

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

SHEET DESCRIPTION

SIGNATURE SHEET SOIL BORINGS REPORT

SIGNATURE SHEET	SHEET NO.
SIGNAI ONL SIILLI	T-2

	TABULATION	OF (	QUANT I T I E	S						
PAY			SHEET NUME				NUMBER	BERS		
ITEM NO.	DESCRIPTION	UNIT	T - 6	T - 8						
NO.			PLAN FINAL	PLAN FINAL	PLAN	FINAL	PLAN	FINAL	PLAM	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	202	193						
	CONDUIT. FURNISH & INSTALL. DIRECTIONAL BORE	LF	580	375						
632-7-1	SIGNAL CABLE-NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1	1						
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	28	16						
639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND (PURCHASED BY CONTRACTOR FROM POWER CO)	AS	1	1						
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	10	10					-	
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - PEDESTAL/SERVICE POLE	EA	1	1						
646 - 1 - 11	ALUMINUM SIGNAL POLE, PEDESTAL	EA	4	2						
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	1	2						
	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL SINGLE ARM 30'	ΕA	1	1						
	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	1							
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA		1						
	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA	3	1					-	
	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA	1						-	
	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA	4	2					-	
	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	21	6					-	
	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS		2					-	
	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNDOWN, 1 WAY	AS	4	2					-	
	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1	1					-	
	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	5	3					-	
	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS	EA	1	1					-	
	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA	1	1					-	
	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	4	2					-	
	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1	1					-	
	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1	1					-	
	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1	1					-	
	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	1	2					-	
	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4	3					-	
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s\FD0T	DATE	REVIS DESCRIPTION	SIONS DATE	DESCRIPTION	SUSANNE S. WILLIAMS, P.E.	OSCEOLA COUNTY	
S:\Workspace					LICENSE NUMBER 49486 TRAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE DEBARY, FLORIDA 32713	TRANSPORTATION AND TRANSIT 1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0552 Fax:(407) 742-0560	TAB

6 6

VALE	DESCRIPTION		DESCRIPTION	SUSANNE S. WILLIAMS, P.E. LICENSE NUMBER 49486 TRAFFIC ENGINEERING DATA SOLUTIO	TRANSPORTATION AND TH	
DATE		ISIONS DATE	DESCRIPTION		SCEOLA COUNTY	
	Scot Carpenter, PSM P.S.M. NO.: 6177 McKim & Creed, INC. 505 East New York Avenue DeLand, Florida 32724 Certificate of Authorization: LB7917					
	ata Sources: All survey information was obtained from a lic supporting data in the production of design pl The Professional Surveyor and Mapper of Rec Scat Corporter BSM	ensed Florid ans and for ord is:	a Professional Surveyor and Mapper onstruction on subject project.	and utilized as		
SURV						
	MITTALS All submittal data on Osceola County projec via Email at ghassan.choueiry@osceola.org	ts should be	submitted to Ghassan Choueiry, PE			
I	brianm@onstreetmedia.com					
4. (	All signalization equipment that is removed contractor's expense in a manner and location Contact On Street Media Brian Miller for rem					
2.	The signal project manager is to be contact receipt shall be obtained from the project r This itemized receipt shall state all equipme The contractor shall present the receipt to a shall be recorded on the punch list as an ite	ed at least 4 nanager in ti nt removed	8 hours prior to delivery. Written a le form of a signed receipt bearing from each location was returned to	acknowledgement of equipment the contractor's letterhead. Osceola County in good condition.	permitted. The contractor shall bear all expen	ises associate
	3850 Old Canoe Creek Road Attn: Aaron Torres Saint Cloud, FL 34769				2. Any fiber interconnect cable that is cut or da re-spliced within the splice closure at the end	maged durin f of the run.
-	The contractor shall coordinate a field meet existing equipment, to determine which equi The agreed upon equipment shall be disasse for protection from damage and delivered to	pment should mbled into t	signal project manager (407) 738- 9 be delivered to Osceola County Tr heir component parts, tagged as to	9405, prior to removing any ansportation and Transit. location, packaged as needed	1. As defined in the FDOT Standard Specification by the maintaining agency, the contractor sha Transit. The Contractor shall also leave one a contractor shall submit bore logs. The contrac procedure.	ns, section 61 II provide a s-built plan in tor shall be
PROC	CEDURES				AS-BUILT PLANS	
12.	If the contractor calls for an inspection and rescheduled), the contractor shall be back c	the contrac harged for a	or is not prepared for the inspecti Il costs associated with the inspecti	on (i.e. the inspection has to be on.	1. The mast arms shall be painted "midnight neu specifications 560 (codes Z-C and B-8 for prin	tral" (Sherwin me and inter
	requirements specified in FDOT, MUTCD, and contact the engineer of record.	l county sta	ndards prior to installing structural	material. If a discrepancy is found,	the pre-drill shaft meeting. MAST ARMS	
	The contractor shall verify structure orienta at contractor's expense. The contractor shall				3. The contractor shall be responsible for supply	ing approve
	bonded to the pole ground. The outside insu field termination points. No un-jacketed indi Solid colored insulation conductors should be				2. The signal contractor is responsible for ensur- notify the Engineer of Record when they arise this signal note.	ing that no c e. The signal
	Signal cable shall be spliced to a separate 7 These splices shall be installed in either the a pedestrian pedestal. The color code of sig A permanent tag shall be placed at both wir to the pole ground. Each detector push butt bonded to the pole ground. The outside insu field termination points. No un-jacketed indi	hand-hole c nal cable sh e terminatio on shall be f	f the steel pole/concrete strain pol- all be verified with Osceola County as designating the phase used. All u ed with an individual two conductor	e or within the transformer base of prior to wiring intersection. nused signal wires shall be bonded Belden cable, with the shield wire tact from the cippel bases the	<ol> <li>The contractor shall hire a certified drilled sh and a concrete testing laboratory for the pur- The firm shall then submit a signed and seale to the department for approval. Contractor to shaft pour. Failure to obtain these services pr drilled shaft(s).</li> </ol>	d report ver also coordin rior to the co
	Three spare conductors shall be installed fo Signal cable shall be spliced to a separate 7					naft CTQP let pose of insp
7.	The contractor shall notify the TMC 48 hour Notification shall be conveyed via email to l location, and duration of outage.	s m advance indsey.giovin	shourd communication to an interse azzo@osceola.org and shall include o	contact name, phone number, purpose,	DRILLED SHAFTS	
1	Final locations of any devices including cabi- location has changed from the plan.				ZAYO GROUP	TESS BE
5.	The contractor shall be advised that other p shall be responsible for coordinating all asp concurrent projects.	ects of sche	be under construction concurrently luling and work with other agencies	with this project. The contractor and contractors in charge of	ONSTREET MEDIAN SPRINT TOHO WATER AUTHORITY VERRA MOBILITY	MIKE ST JOHN BA ROBERT DANNY N
I	All existing signalization equipment to remai Osceola County is notified in writing prior t repaired at the contractor's expense.				DUKE ENERGY FIBER DUKE ENERGY OUTDOOR LIGHTING DUKE ENERGY TRANSMISSION	MARK HU MICHAEL ARIC ROO
	The contractor shall notify Osceola County a All existing signalization equipment to remai		••••	•	CHARTER COMMUNICATIONS DUKE ENERGY DISTRIBUTION	MARVIN ROBB BF
	Temporary traffic control shall be maintaine dated (2022). Attention is directed to the 10				COMPANY CENTURYLINK (EMBARQ)	CONTACT ROBERT
						00.UT 10T
(	Unless otherwise noted in the technical spec shall be in accordance with the current edit. Devices (MUTCD), FDOT Standard Plans, FDO Osceola County Contractor Signal Specificati	)T Design Ma ons.	nual, FDOT Standard Specifications	for Road and Bridge Construction and	1. The contractor shall notify all utilities at least underground utilities, including pole setting op List of utility owners:	

least 48 hou ng operations	rs in advance of a where a conflict w	any operation that may conflict with overhead with overhead electrical conductors is expected	or d.		
CONT	ACT	TELEPHONE NUMBERS			
MARV ROBE MARK MICH ARIC JOHN ROBE DANN	RT GODEK IN USRY BROWN AEL SMITH ROGERS STURGEON BAKER RT PELHAM Y NEWMAN BENTAYOU	407-532-8509 407-532-8509 352-459-4671 727-820-5208 407-850-5207 813-909-1245 302-245-8612 321-280-9596 407-944-5132 352-250-4130 813-363-6797			
ed shaft CTQ purpose of i sealed report or to also coc es prior to th	P level I construct nspecting all drilld verified by the P ordinate with Osce e construction of	tion engineering and inspection (CEI) firm, ed shaft installations per current FDOT standa E in responsible charge of the drilled shaft in ola County to perform VT inspection at time o the drilled shaft(s) shall result in rejection of	rds. spector f drilled the		
		during the soft digs with drill shaft locations responsible for all associated cost, not comply			
upplying appr	upplying approved shop drawings showing the bolt pattern and arm orientation prior to				
neutral" (Sherwin Williams J4-55-34), applied according to FDOT standard prime and intermediate coats). This includes any luminaires installed on the mast arm.					
rations, section 611-2.3, seven days prior to signal conditional acceptance inspection shall provide a PDF of the as built plans to Osceola County Transportation and ne as-built plan in the drawer of the signal cabinet. In addition to as built plans, ntractor shall be required to become familiar with Osceola County's inspection					
e end of the i	un. Splicing of fik	must be replaced as an entire run and shall b ber interconnect cable between splice closures stallation of the new interconnect cable.	ne is not		
D TRANSIT	(	FENERAL NOTES	SHEET NO.		
3100 42-0560			T-4		

## PAY ITEM NOTES

630-2-XX

-2-XX A green #12 AWG trace wire shall be installed within any unused conduit and spliced within the pull box to provide electrical continuity. All references in the plan to rigid conduit shall be installed as 1.5" galvanized steel metal conduit. There shall be one spare 2" underground conduit installed per run. This shall be reflected in the callout. There shall be a separate conduit for video or loop runs from signal power conduits. Under no circumstances shall loop and video runs be housed in the same conduit as signal power.

635-2-XX Pull boxes shall be "Quazite", have non-conductive covers, and meet ANSI Tier 22 rating. Covers shall be stamped "Osceola County Traffic Signal" for all signalization applications.

641-2-12 Includes the cost of providing concrete service pole to mount signal disconnect when not permitted to be mounted on power company pole. Service pole shall be exposed 12' above grade with disconnect mounted at 8'. Surge arrestor shall be wired on the load side of the disconnect.

646-1-XX All pedestrian pedestals shall be provided with aluminum breakaway transformer-type bases.

650-1-XX

All traffic signal heads shall be aluminum. An articulated astro-bracket shall be provided under this pay item if needed for proper orientation of horizontal signal head on a skewed arm or approach. Retro reflective back plate borders are required on all back plates. Any four section signal heads with the flashing yellow arrow shall have the FTP-85-13 sign installed adjacent to the head assembly to the right.

653-1-XX

LED pedestrian signals are to be single section and provided with international style lenses and countdown features.

660-4-XX

-4-XX All video detectors shall meet Osceola County's functionality requirements. Sunshields shall be provided on each camera, a menu-driven interface requiring no separate computer for set-up or maintenance shall be provided. Video cameras shall be color and sealed pressurized housing. This pay item shall also include lightning and surge protection consisting of point discharge dissipation terminals on each camera, coax or cat 5 line protectors and camera protectors. Proper grounding must be provided including a bond wire attached to the camera assembly running to the pole ground. This item includes exterior use cabling, and mounting brackets necessary to meet the performance expectations of the system as described in the signal general notes. Payment includes all labor (man-hours) and equipment necessary to develop an acceptance testing plan and to complete a successful video detection accuracy test A.K.A. Field acceptance test of the video detection system.

### 663-1-XXX

contractor to furnish and install Global Traffic Technologies GPS receiver and antenna. The contractor will perform all signal testing, mapping and system activation. Contractor to furnish and install global traffic technologies fire-rescue GPS pre-emption controller interface module. Contractor to furnish and install Global Traffic Technologies system-specific preemption GPS multi-pair cable to connect to GPS antennas to GPS pre-emption controller interface.

665-1-XX Pedestrian push buttons shall include a MUTCD pedestrian sign, R10-3E for each button. The button and sign shall be placed on the face of the pole. Contact the engineer before proceeding if all A.D.A. Requirements cannot be met regarding the placement and accessibility of the buttons. Audible push buttons shall only be installed when called for in the plans.

670-5-XXX

5-XXX The controller assembly shall be Econolite R77 TS2 Type 1 operation, consist of an Econolite Cobalt 2100 controller, and 3 shelves. (Special note: if there is limited sidewalk A.D.A. clearance, a reduced depth Type VI cabinet can be used with prior approval from Osceola County Transportation and Transit). The cabinet air filter shall be of the reusable washable aluminum type. The top of the controller pad shall be at least six inches above the roadway elevation. This pay item shall also include complete reintegration of the existing GPS priority control preemption equipment, and relocation to/from the existing cabinet. A flush mounted automatic power transfer switch shall be included on the cabinet. A technician service pad 30" in width shall also be provided. Whenever possible, the cabinet is to be placed so that the door opens away from the intersection and opens fully within the right of way. This pay item includes the cost of the concrete for the controller pad and the service pad.

NOTE- Refer to Osceola County Traffic Signal Cabinet and Controller Specifications 5/2016. For more detailed specifications contact:

Aaron Torres (407) 738-9405, aaron.torres@osceola.org Ghassan Choueiry, PE at (407) 742-0562, ghassan.choueiry@osceola.org

685-1-13

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All UPS systems shall be line interactive and meet Osceola Counties communication system requirements. UPS cabinets shall be installed separately from the controller assembly, no piggy back mounts.

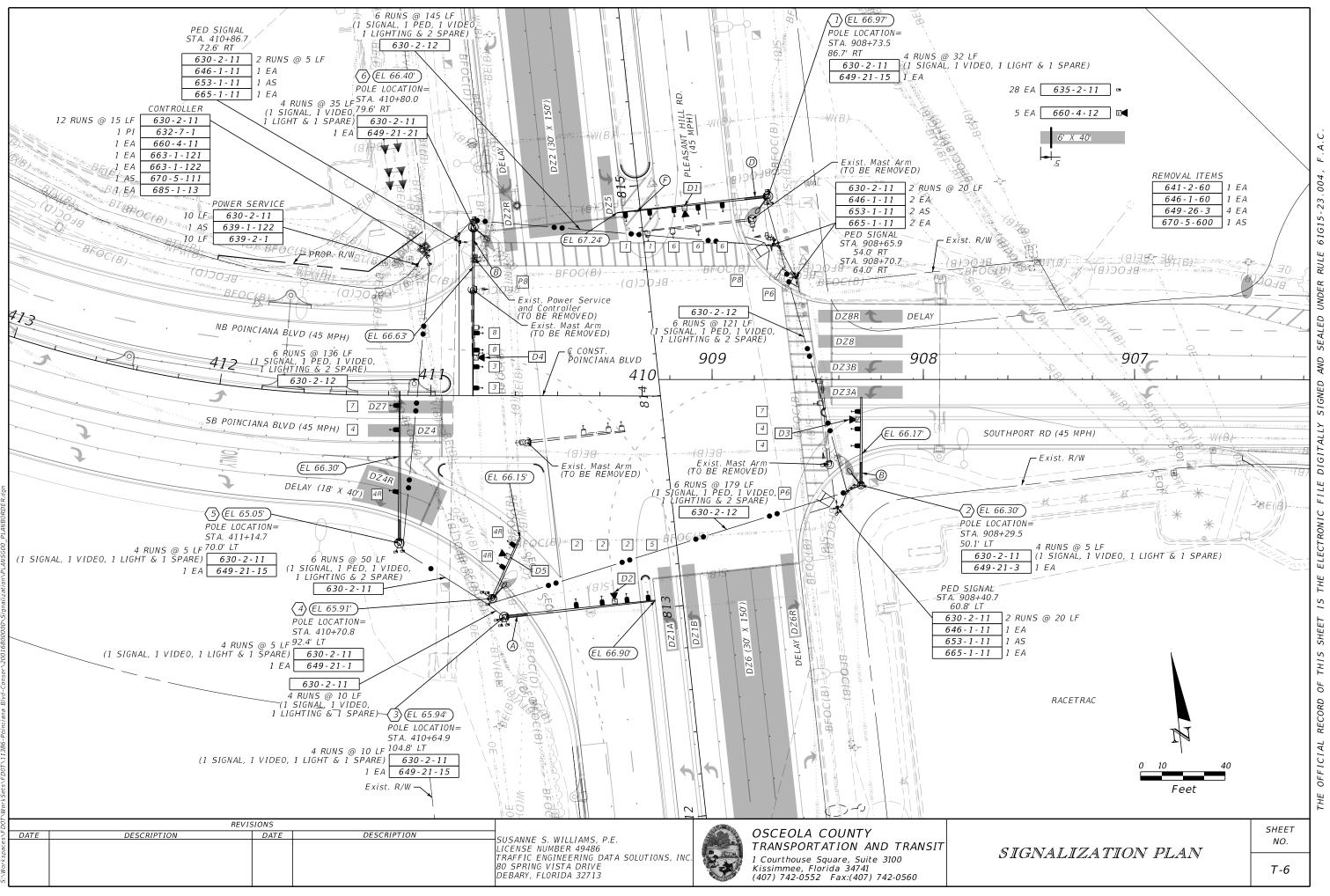
### 700-5-XX

Illuminated street signs shall be LED producing a minimum of 50 lumens per watt. Signs shall be double-sided and mounted to separate cantilever arms below the mast arms. All internally illuminated street name signs shall be separately breakered and controlled by one master photocell installed in cabinet. Internally illuminated street name signs shall have a 24" viewing height. This viewing height does not include the height of the sign assembly. Internally illuminated street name signs shall be burned in for 60 days before final acceptance.

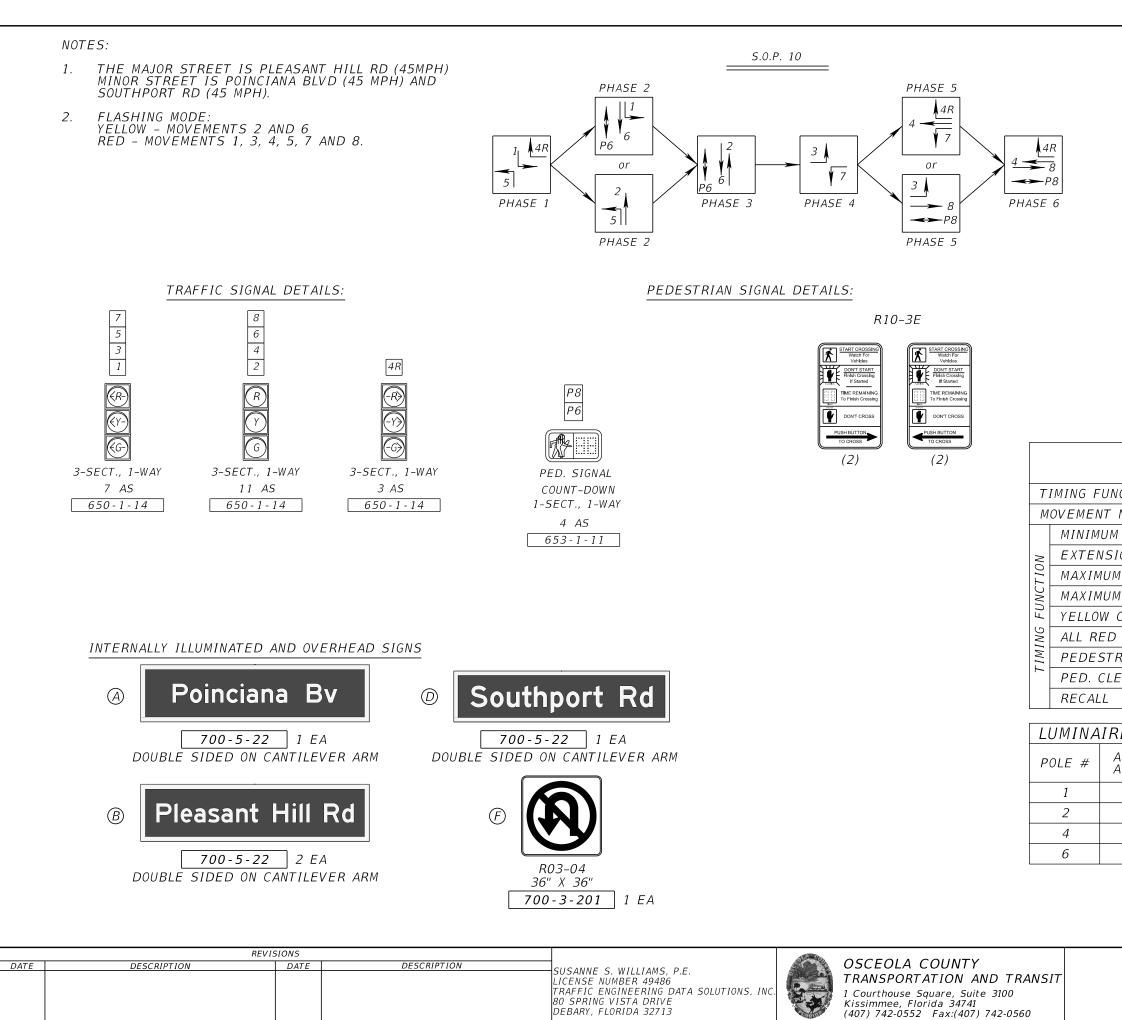
REVISIONS       SUSANNE S. WILLIAMS, P.E.         DATE       DESCRIPTION       DATE       DESCRIPTION       SUSANNE S. WILLIAMS, P.E.         LICENSE NUMBER 49486       LICENSE NUMBER 49486       TRAFFIC ENGINEERING DATA SOLUTIONS, INC.       OSCEOLA COUNTY         No.       NO.       DESCRIPTION       DESCRIPTION       DESCRIPTION       DESCRIPTION									
SUSANNE S. WILLIAMS, P.E. LICENSE NUMBERS RAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE 80 SPRING VISTA DRIVE			A State			SIONS	REVI		i
LICENSE NUMBER 49486 TRAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE 80 SPRING VISTA DRIVE	JIY	OSCEOLA COUNT		JOUGANNE O WILLIAMO DE	DESCRIPTION	DATE	DESCRIPTION	E	DAT
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GENERAL NOTES	SHEET NO.
GENERAL INVIES	T-5



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DEBARY, FLORIDA 32713

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DETECTION ASSIGNMENTS							
DETECTOR	DETECTION ZONE	CHANNEL NO.					
	DZ1A	(SEC) -	_				
D1	DZ1B	-	_				
DI	DZ6	-	_				
	DZ6R	5	-				
	DZ5	-	-				
D2	DZ2	-	-				
	DZ2R	5	-				
D3	DZ7	-	-				
US	DZ4	-	-				
	DZ3A	-	-				
D4	DZ3B	_	-				
	DZ8	-	-				
	DZ8R	5	-				
D5	DZ4R	5	_				

# CONTROLLER TIMINGS

CTION								
NUMBER	1	2	3	4	5	6	7	8
GREEN	7	18	7	7	7	18	7	7
'ON	3.0	0.5	3.0	3.0	3.0	0.5	3.0	3.0
1 GREEN 1	25	55	20	30	25	55	20	30
1 GREEN 2	-	1	1	-	-	-	-	-
CLEARANCE	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	2.0	2.0	2.5	2.8	2.4	2.4	2.5	2.5
RIAN WALK	-	-	-	-	-	7	-	7
EARANCE	-	-	-	-	-	30	-	40
	-	MIN	-	-	-	MIN	-	-

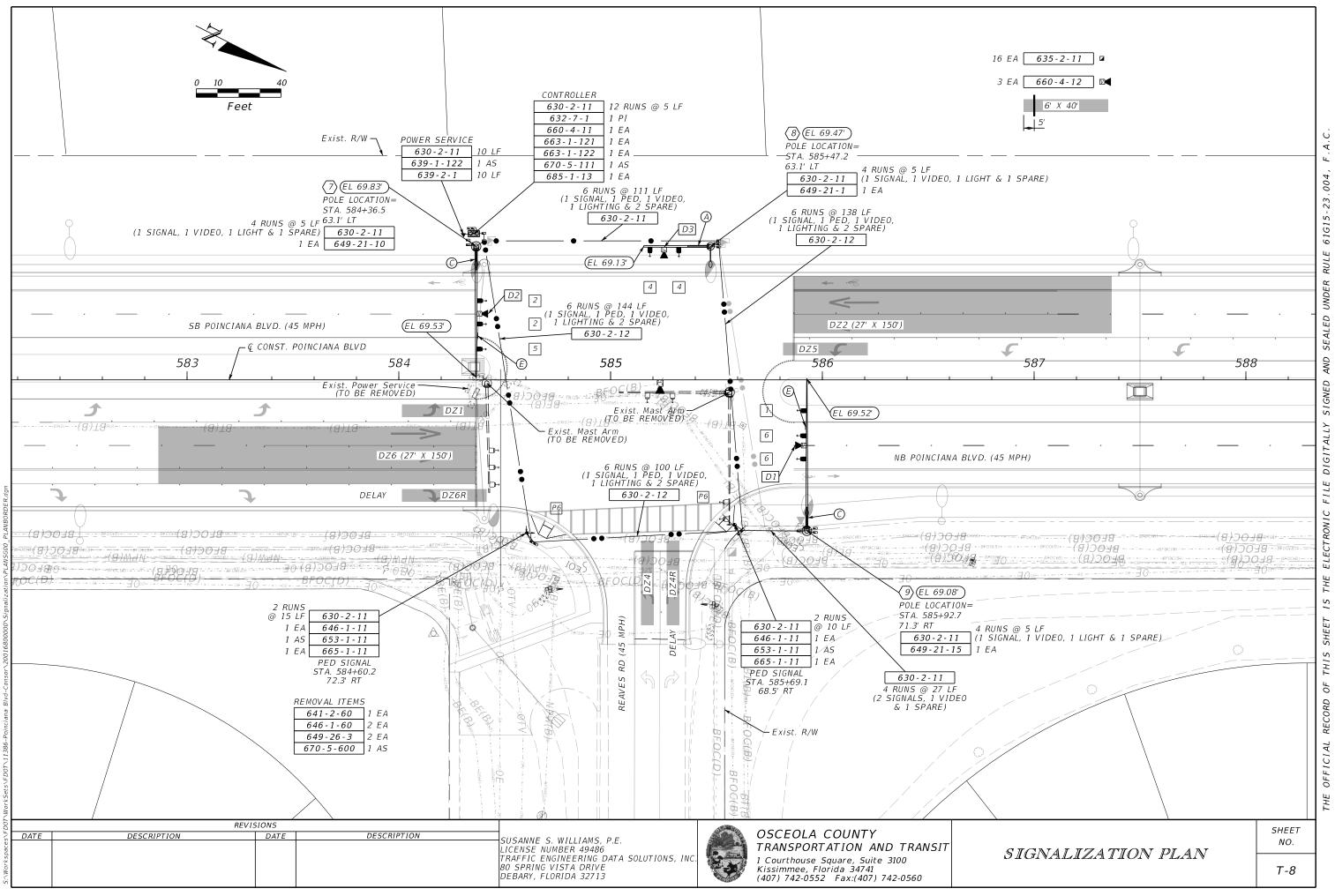
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17°
50°

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STANALTZATION DLAN	SHEET NO.
SIGNALIZATION PLAN	T-7

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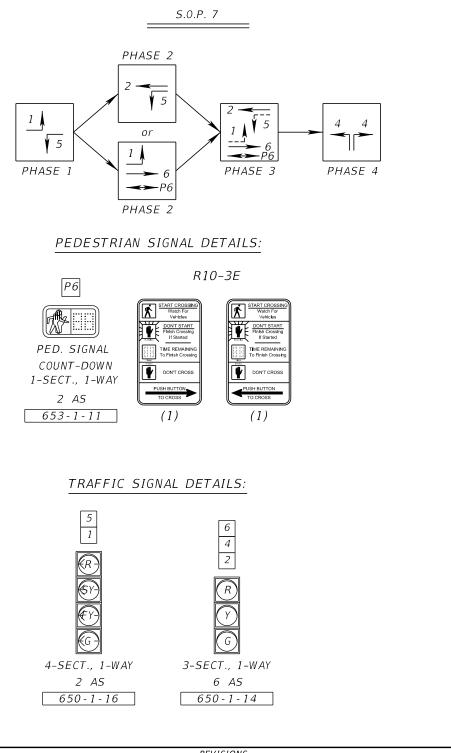
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- 1. THE MAJOR STREET IS POINCIANA BLVD (45MPH) MINOR STREET IS REAVES RD (45 MPH).
- 2. FLASHING MODE: YELLOW - MOVEMENTS 2 AND 6 RED - MOVEMENTS 1, 4, AND 5.
- 3. MOVEMENTS 1 & 5 SHALL OPERATE PROTECTED-PERMISSIVE.



INTERNALLY ILLUMINATED AND OVERHEAD SIGNS
Poinciana Bv
700-5-22 1 EA DOUBLE SIDED ON CANTILEVER ARM
© Reaves Rd
<b>700-5-22</b> 2 EA DOUBLE SIDED ON CANTILEVER ARM
E LEFT TURN YIELD ON FLASHING YELLOW ARROW

FTP-85-13 30" X 36"

700-3-201 2 EA

	IMING FUN OVEMENT
	MINIMUM
2	EXTENSI
TION	MAXIMUM
FUNCT.	MAXIMUN
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Γ	PED. CLE
	RECALL

LUMINA	IRE ANGLES
POLE #	ANGLE FROM ARM CENTER
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8	90°
9	0°

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ing l		REVI:	SIONS				
2	DATE	DESCRIPTION	DATE	DESCRIPTION	SUSANNE S. WILLIAMS, P.E.		OSCEOLA COUNTY
Dace:					LICENSE NUMBER 49486	Part of the of t	TRANSPORTATION AND TRANSIT
I KS					TRAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE		1 Courthouse Square, Suite 3100
DIVIC					DEBARY, FLORIDA 32713	A CREDE W	Kissimmee, Florida 34741 (407) 742-0552   Fax:(407) 742-0560

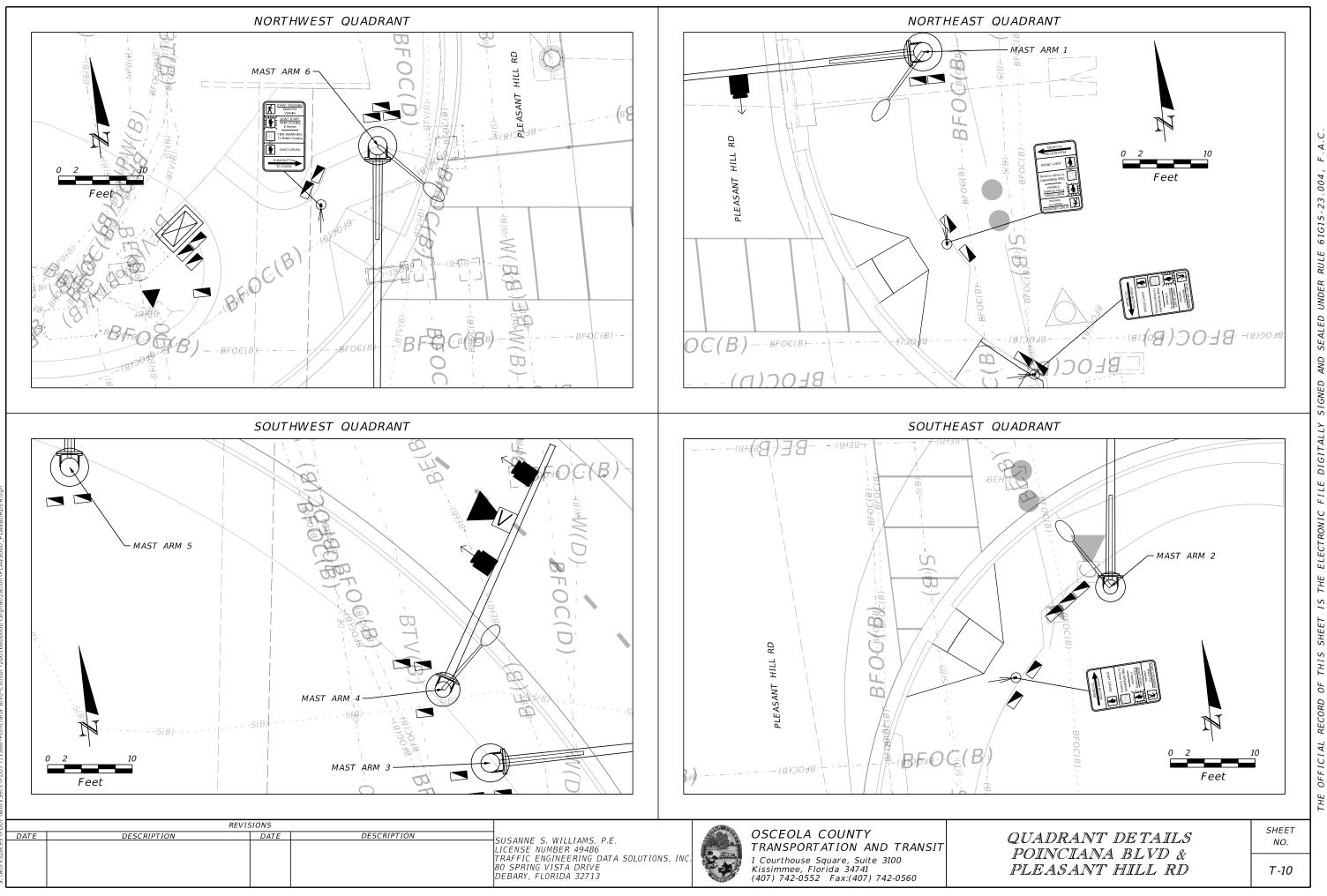
[					
DET	ECTION AS	SSIGNME	ENTS		
DETECTOR	DETECTION ZONE	DELAY TIME (SEC)	CHANNEL NO.		
	DZ1	-	-		
D1	DZ6	-	-		
	DZ6R	5	-		
2	DZ5	-	-		
D2	DZ2	-	-		
כח	DZ4	-	-		
D3	DZ4R	5	-		

# CONTROLLER TIMINGS

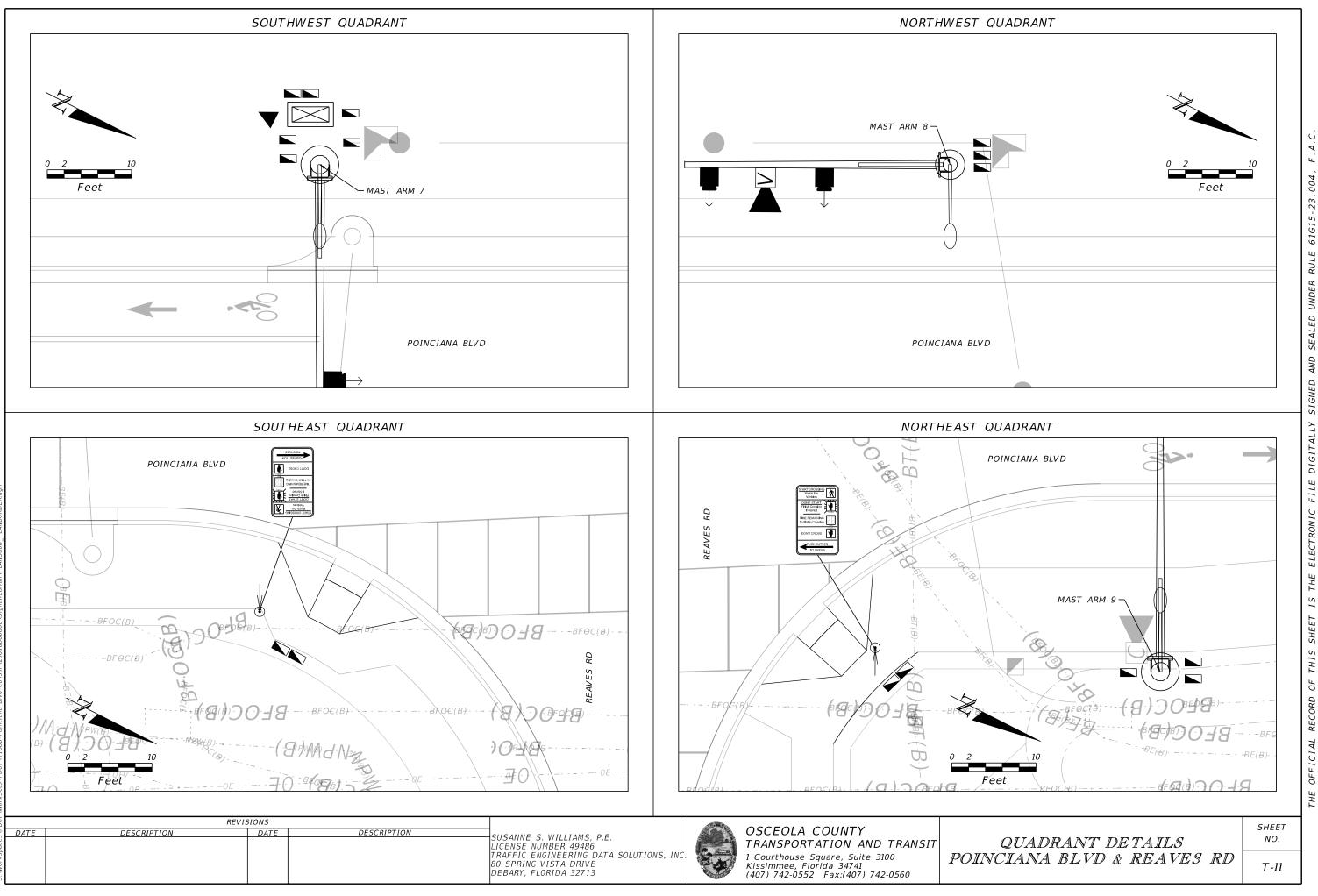
CTION								
NUMBER	1	2	3	4	5	6	7	8
GREEN	10	15	-	10	10	15	-	-
ON	2.5	0.5	-	2.5	2.5	0.5	-	-
1 GREEN 1	20	65	-	25	20	65	-	-
1 GREEN 2	-	-	-	-	-	-	-	-
CLEARANCE	4.8	4.8	-	4.8	4.8	4.8	-	-
	2.0	2.0	-	2.5	2.3	2.0	-	-
RIAN WALK	-	-	-	-	-	7	-	-
EARANCE	-	-	-	-	-	21	-	-
	-	MIN	-	-	-	MIN	-	-

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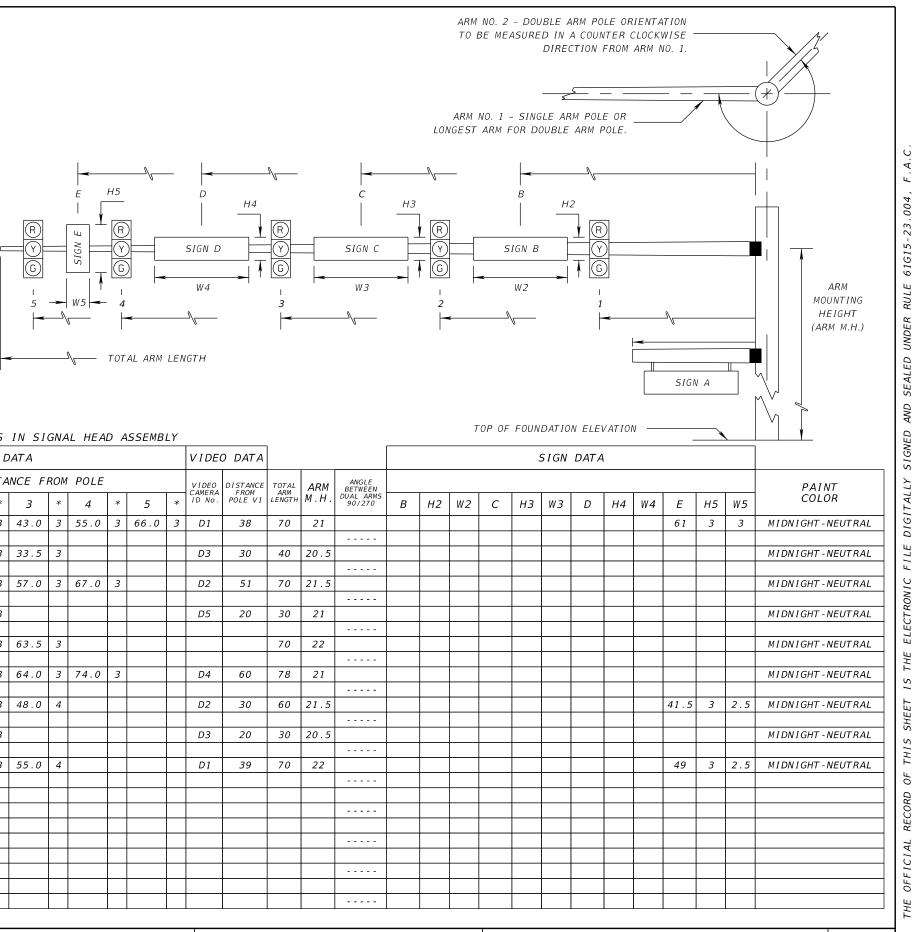


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SF	PECI	AL .	INST	RUC	TIONS
ID NO.	PE BUT	D. TON	PE S I GI	D. VALS	HANDHOLE LOCATION



\* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

										LINUTE	3 100		<i>л</i> :	SLUTIO	003	111 51	GNA		υA	SSEMD												
													9	SIGNAL	. <i>L</i>	DATA						VIDE	O DATA									S
	ID	SHEET	LOCATION	TOP OF FOUND.	RDWY ARM	CROWN	LUMI - NAIRE	TERM. COMP.	SIGNAL	BACK	PED. SIGNAL			DI	STA	ANCE F	ROM	POLE				VIDEO CAMERA	D I ST ANCE F ROM	TOTAL ARM	ARM	ANGLE BETWEEN						
	NO.	NO .	BY STA.	ELEVATION	NO.	ELEV.	Y/N	Y/N	V/H	Y/N	Y/N	1	*	2	*	3	*	4	*	5	*	ID No.	POLE V1	LÊNGTH	М.Н.	DUAL ARMS 90/270	В	H2	W2	С	HЗ	
	1	T - 6	908+73.5	66.97	1	67.24	Y	Ν	V	Y	N	20.5	3	32.0	3	43.0	3	55.0	3	66.0	3	D1	38	70	21							
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	2	T - 6	908+29.5	66.30	1	66.17	Y	N	V	Y	N	17.0	3	25.0	3	33.5	3					D3	30	40	20.5					I		
					2																											
	3	T - 6	410+64.9	65.94	1	66.90	N	Ν	V	Y	N	33.0	3	45.0	3	57.0	3	67.0	ы			D2	51	70	21.5							
5					2																									1		
	4	T - 6	410+70.8	65.91	1	66.15	Y	N	V	Y	N	14.0	3	25.5	3							D5	20	30	21					i		
					2																									1		
<u> </u>	5	T - 6	411+14.7	65.05	1	66.30	N	N	V	Y	N	22.5	3	52.0	3	63.5	3							70	22							T
					2																											T
7 7	6	T - 6	410+80.0	66.40	1	66.63	Y	N	V	Y	N	48.0	3	56.0	3	64.0	3	74.0	3			D4	60	78	21					i		T
in fi					2																									1		T
ŝ	7	T - 8	584+36.5	69.83	1	69.53	Y	N	V	Y	N	24.0	3	35.0	3	48.0	4					D2	30	60	21.5							T
					2																											T
	8	T - 8	585+47.2	69.47	1	69.13	Y	N	V	Y	N	14.0	3	27.0	3							D3	20	30	20.5					i		T
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	9	T - 8	585+92.7	69.08	1	69.52	Y	N	V	Y	N	32.0	3	43.0	3	55.0	4					D1	39	70	22					i		T
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n contraction of the	<u>DATE</u>		DESCRIP	TION		DAT	- <u>E</u>	DESCRIPTION       SUSANNE S. WILLIAMS, P.E.         LICENSE NUMBER 49486       LICENSE NUMBER 49486         TRAFFIC ENGINEERING DATA SOLUTIONS, INC.       1 Courthouse Square, Suite 3100         Kissimmee, Florida 34741       DEBARY, FLORIDA 32713										S														

	STAI	VDARD MA	AST ARI	M ASSEI	MBLIES	DATA T.	ABLE				Table Date 11-01-16
STRUCTURE		FIRST	ARM	SECON	ND ARM	UF (deg)	LL (deg)		POLE		DRILLED
ID NUMBERS	DESIGNATION	ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	SHAFT ID
1	A70/S P5/S/L	A70/S					45	P5/S/L		21.0	DS/20/5
2	A40/5 P2/5/L	A40/5					40	P2/5/L		20.5	DS/12/4.5
3	A70/S P5/S	A70/5						P5/S		21.5	DS/25/5
4	A30/S P1/S/L	A30/5					343	P1/S/L		21.0	DS/12/4
5	A70/S P5/S	A70/5						P5/S		22.0	DS/18/5
6	A78/S P6/S/L	A78/5					50	P6/S/L		21.0	DS/25/5
7	A60/S P4/S/L	A60/5					0	P4/S/L		21.5	DS/16/5
8	A30/5 P1/S/L	A30/5					90	P1/S/L		20.5	DS/12/4

### NOTES:

- 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. ARM MOUNTING HEIGHT UB MUST BE BETWEEN 18-22 FEET.
- 4. POLE TYPES P2 AND LARGER REQUIRE A MINIMUM 4.5 FOOT DIAMETER DRILLED SHAFT. POLE TYPES P5 AND LARGER REQUIRE A MINIMUM 5.0 FOOT DIAMETER DRILLED SHAFT.
- 5. 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.
- 6. WORK WITH INDEX 649-030 AND 649-031.
- 7. GEOTECHNICAL RECOMMENDATIONS:
  - A. DRILLED SHAFT FOUNDATION MUST BE INSTALLED SUCH THAT THE SOILS ON THE SIDES AND BOTTOM OF SHAFT ARE RELATIVELY UNDISTURBED. INTIMATE CONTACT MUST BE MADE BETWEEN THE CONCRETE AND SURROUNDING SOILS.
  - B. "NATURAL SLURRY IS NOT ALLOWED BY FDOT SPECIFICATIONS AND SHOULD NOT BE RELIED UPON TO PREVENT CAVING OF SOILS AND MAINTAINING AN OPEN HOLE."
  - C. ARTESIAN CONDITIONS WERE NOT NOTED BY THE DRILLER DURING DRILLING PERFORMED TO A MAXIMUM DEPTH OF 30 FEET. HOWEVER, BASSED ON REVIEW OF THE FDPE 2017 POTENTIOMETRIC CONTOUR MAP OF THE UPPER FLORIDIAN AQUIFER FOR THE PROJECT AREA, THE POTENTIAL ARTESIAN HEAD ELEVATION IS ESTIMATED TO BE AT APPROXIMATELY +60 TO +68 FEET, NGVD.
  - D. BE PREPARED TO USE TEMPORARY CASING OR OTHER METHODS AS NECESSARY TO CONTROL ARTESIAN WATER UP TO A HEAD ELEVATION OF APPROXIMATELY +60 TO +68 FEET, NGVD.

### 8. FOUNDATION NOTES:

- A. DESIGN BASED ON BORINGS PROVIDED BY AWK CONSULTING ENGINEERS, INC.
- B. DESIGN WATER TABLE IS AT GRADE.
- C. THE STANDARD SOIL PARAMETERS DO NOT MEET THE REQUIREMENTS FOR USING THE PRE-DESIGN STANDARD MAST ARM ASSEMBLY. FOR ASSUMPTIONS AND VALUES USED IN DESIGN, SEE FOUNDATION ASSUMPTIONS TABLE IN THIS SHEET.
- 9. DESIGN WIND SPEED: 150 MPH

	ATE	REVIS DESCRIPTION	DATE	DESCRIPTION	CHRISTOPHER R. HOWARD, P.E. P.E. NO.: 54161 CONSOR ENGINEERS, LLC. 2511 ST. JOHNS BLUFF ROAD SOUTH, SUITE 107 JACKSONVILLE, FLORIDA 32246		OSCEOLA COUNTY TRANSPORTATION AND TRANSIT 1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0550 Fax:(407) 742-0560	STAI ASSEM
yam.	isial			2/2	22/2023 3:13:57 PM Default	a stars	(407) 742-0552 Fax:(407) 742-0560 P:\_V-TPD\	DesignCADD_FDOT\Pr

FOUNDATIO	ON ASSUMPTI	ONS AND VA	LUES USED	IN DESIGN
MAST ARM ID	SOIL TYPE	SOIL FRICTION ANGLE (DEG)	SOIL WEIGHT (PCF)	N BLOW COUNT
1, 2 & 5	SAND	28	40	10
3, 6	SAND	28	40	7
4	SAND	28	40	8
7	SAND	30	40	12
8	SAND	30	50	10

# THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALE

# ANDARD MAST ARM MBLIES DATA TABLE

SHEET

# NО. T-13

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							SPI	ECIAL	MAST	ARM	ASSE	MBLIE	S DAT	A TAL	3LE							7	able Date	01-01-12
NUMBER OF	STRUCTURE		FIRST	ARM		FIRS	ST ARM	EXTENS	SION		SECON	D ARM		SECO	ND ARM	IEXTEN	ISION				POLE			
LOCATIONS	NUMBER	FA(ft)	FB(in)	FC(in)	FD(in)	FE(ft)	FF(in)	FG(in)	FH(in)	SA(ft)	SB(in)	SC(in)	SD(in)	SE(ft)	SF(in)	SG(in)	SH(in)	UA(ft)	UB(ft)	UC(in)	UD(in)	UE(in)	UF(deg)	UG(ft)
1	9	38.00	7.68	13.00	0.25	35.00	12.10	17.00	0.38									39.00	22.00	18.60	24.00	0.38	0	37.50

						SPE	CIAL M	1AST	ARM A	ASSEM	BLIES	DATA	TAB	LE (CO	ONT.)					7	Table Date	01-01-12
STRUCTURE	FI	RST AR	м солл	IECTION	l (in)	First	Arm Cai	mber A	ngle = 2	2 Degre	es	SEC	OND AR	RM CONI	NECTION	V (in)	Secon	nd Arm	Camber	Angle	= 2 Deg	irees
NUMBER	#Bolts	HT	FJ	FK	FL	FN	FO	FP	FR	FS	FT	#Bolts	HT	SJ	SK	SL	SN	50	SP	SR	SS	ST
9	6	30.00	36.00	3.00	0.75	0.50	18.00	1.25	2.50	12.50	0.50											

						SPEC	CIAL M	IAST	ARM A	SSEM	BLIES	DATA	A TABL	.E (CC	DNT.)							Т	able Date	07-01-15
STRUCTURE															E AND	LUMINA	IRE CON	INECTIO	N .					
NUMBER	#Bolts	BA	BB	BC	BF	DA(ft)	DB(ft)	RA	RB	RC	RD(in)	RE	RF(in)	LA(ft)	LB(ft)	LC(in)	LD(in)	LE	LF(ft)	LG(in)	LH(in)	LJ(in)	LK(in)	LL(deg)
9	8	40.00	2.50	2.00	40.00	25.50	5.00	11.00	18.00	10.00	6.00	10.00	9.00	40.00	10.00	3.00	0.13	0.50	8.00	0.50	0.75	0.25	0.25	0

	REVI	SIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION	CHRISTOPHER R HOWARD	OSCEOLA COUNTY
				P.E.NO.: 54161 CONSOR ENGINEERS, LLC.	TRANSPORTATION AND TRANSIT
				2511 ST. JOHNS BLUFF ROAD SOUTH, SUITE 107 JACKSONVILLE, FLORIDA 32246	1 Courthouse Square, Suite 3100 Kissimmee, Florida 34741 (407) 742-0552 Fax:(407) 742-0560

# <u>NOTES:</u>

- 1. WORK WITH INDEX 649-031.
- 2. DESIGN WIND SPEED = 150 MPH

# FOUNDATION NOTES:

- 1. DESIGN BASED ON BORINGS PROVIDED BY AWK CONSULTING ENGINEERS, INC.
- 2. ASSUMPTIONS AND VALUES USED IN THE DESIGN:

ı)	LL(deg)
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CLASSIFICATION = COHESIONLESS SOIL LAYER THICKNESS = 30 FT. SOIL FRICTION ANGLE = 28 DEG. SOIL WEIGHT = 40 PCF (EFFECTIVE)N-BLOW COUNT = 5DESIGN WATER TABLE IS AT GRADE.

# SPECIAL MAST ARM ASSEMBLIES DATA TABLE

SHEET NO. T-14

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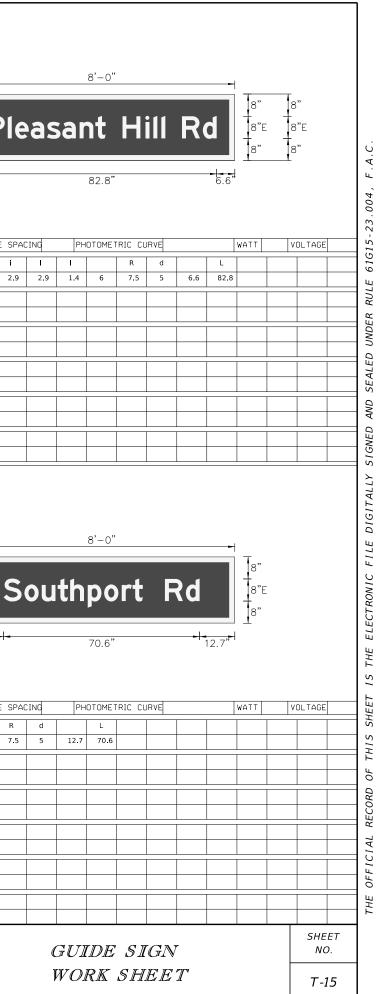
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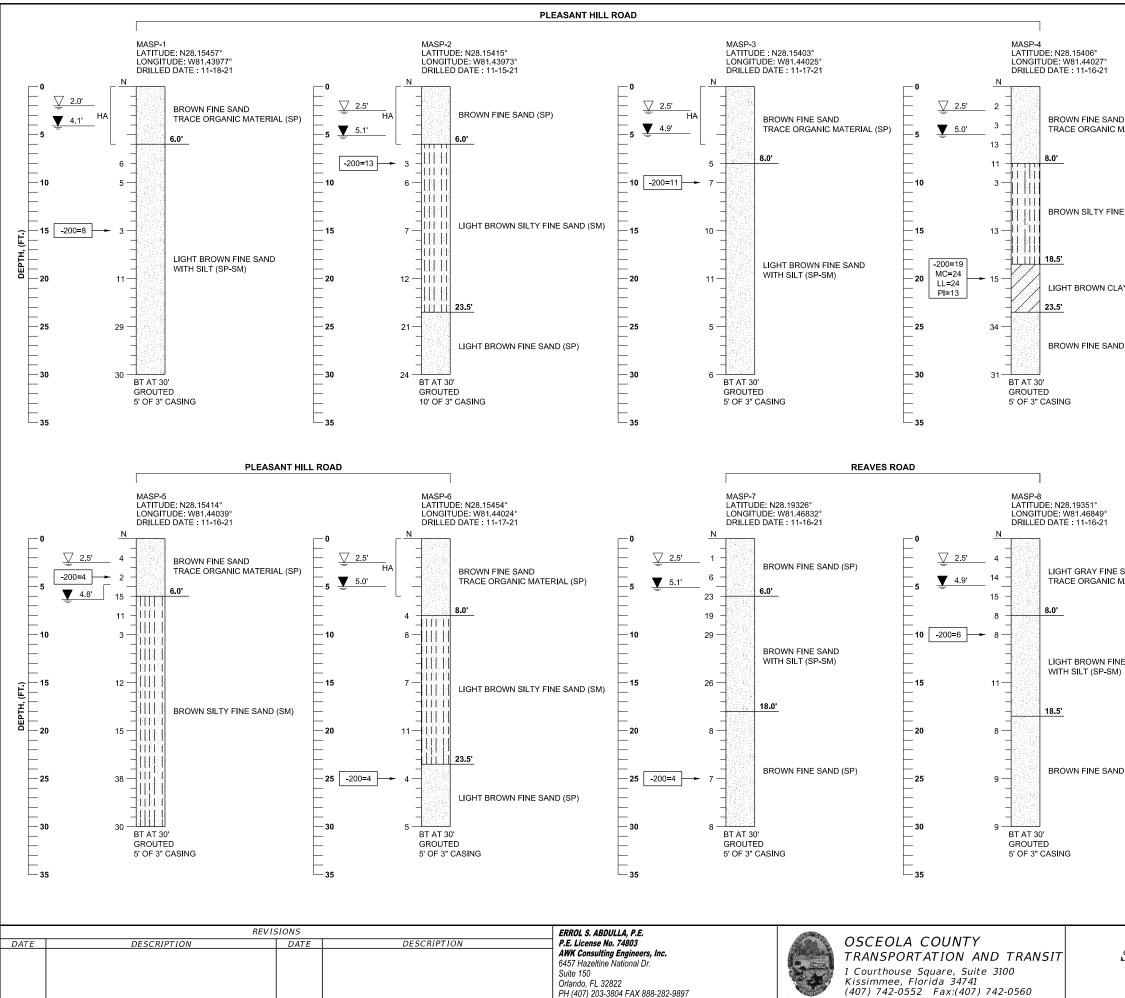
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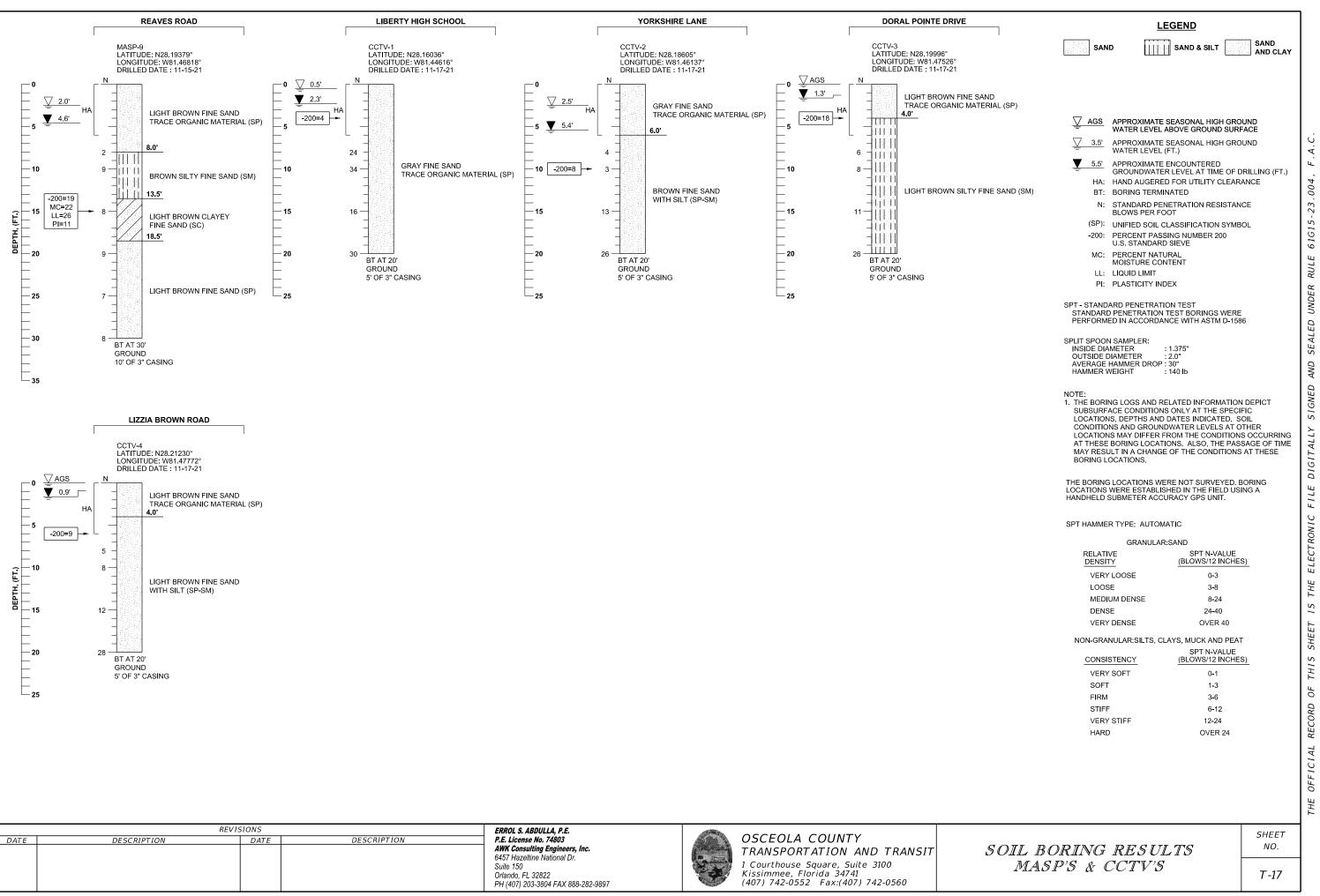
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	SAND	LEGEND	SAND AND CLAY
ID MATERIAL (SP)			
IE SAND (SM) AYEY FINE SAND (SC)	₩ WATE ▼ 5.5' APPR GROU HA: HAND BT: BORIN N: STAN BLOW (SP): UNIFII -200: PERC US.S MC: PERC MOIS LL: LIQUII		DRILLING (FT.) ANCE ICE
ID (SP)	SPT - STANDARD PE STANDARD PENE	TRATION TEST BORINGS WERE	
	SUBSURFACE CC LOCATIONS, DEF CONDITIONS AND LOCATIONS MAY AT THESE BORIN MAY RESULT IN / BORING LOCATION THE BORING LOCAT	ES AND RELATED INFORMATION DNDITIONS ONLY AT THE SPECI THS AND DATES INDICATED. S O GROUNDWATER LEVELS AT C DIFFER FROM THE CONDITION IG LOCATIONS. ALSO, THE PAS A CHANGE OF THE CONDITIONS DNS. TIONS WERE NOT SURVEYED. I ESTABLISHED IN THE FIELD US TER ACCURACY GPS UNIT.	IFIC SOIL STHER IS OCCURRING SAGE OF TIME S AT THESE BORING
SAND MATERIAL (SP)	SPT HAMMER TYPE G RELATIVE	RANULAR:SAND SPT N-VALUE	
NE SAND I)	DENSITY VERY LOOS LOOSE MEDIUM DEI DENSE VERY DENSI	3-8 NSE 8-24 24-40	<u>s)</u>
ID (SP)	NON-GRANULAR CONSISTENC VERY SOFT SOFT FIRM STIFF VERY STIFF HARD	0-1 1-3 3-6 6-12	
			SHEET
SOIL BO. MASP	RING RE VS & CCI		ло. Т-16



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	REVIS	SIONS		ERROL S. ABDULLA, P.E.	A State		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. License No. 74803		OSCEOLA COUNTY	
				AWK Consulting Engineers, Inc.	Jan - and	TRANSPORTATION AND TRANSIT	-
				6457 Hazeltine National Dr.	A strong		
				Suite 150		1 Courthouse Square, Suite 3100	
				Orlando, FL 32822		Kissimmee, Florida 34741	
				PH (407) 203-3804 FAX 888-282-9897	and the second se	(407) 742-0552  Fax:(407) 742-0560	