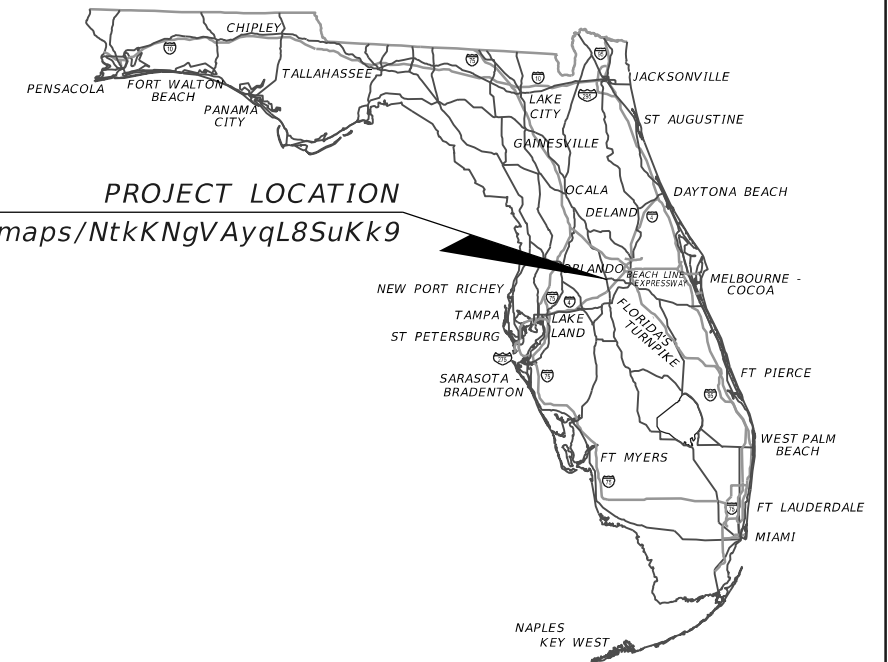


LAKE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS

LAKE COUNTY PROJECT NO. 21-0940A

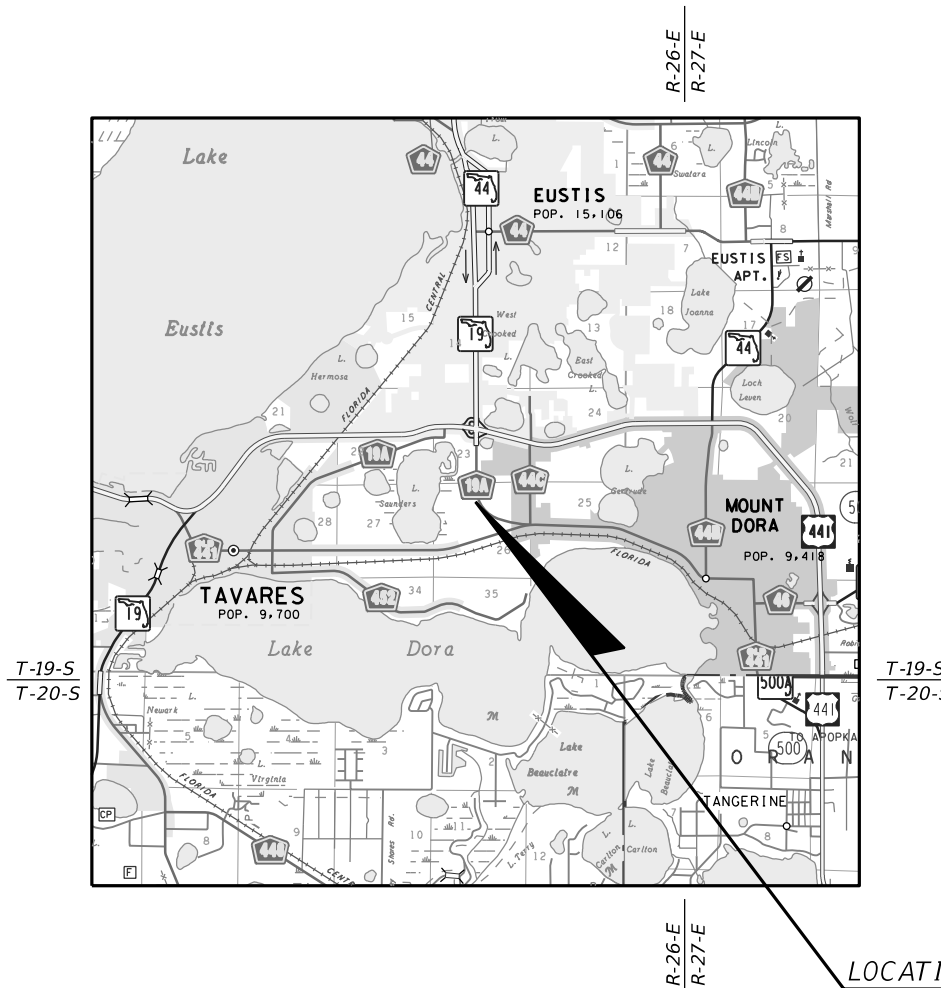
CR 19A AT DODSON CUTOFF AND
LAKE CENTER DRIVE / TRIANGLE DRIVE
TEMPORARY SIGNALS DESIGN



PROJECT LOCATION
<https://goo.gl/maps/NtkKNgVAyqL8SuKk9>

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5	ROADWAY PLAN
T-6	SIGNING AND PAVEMENT MARKING PLAN
T-7 - T-9	SIGNALIZATION PLAN
T-10 - T-11	SIGNAL HEAD LOCATION PLAN SHEET
T-12	STRAIN POLE SCHEDULE



LOCATION OF PROJECT

SIGNALIZATION ENGINEER OF RECORD:

JOSHUA REICHERT, P.E.
METRIC ENGINEERING, INC.
11760 MARCO BEACH DR, SUITE 1
JACKSONVILLE, FL 32224

PLANS PREPARED BY:

METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

ENGINEER OF RECORD: JOSHUA REICHERT, P.E.

P.E. NO.: 77036

LAKE COUNTY PROJECT MANAGER:

GEORGE GADIEL, P.E.

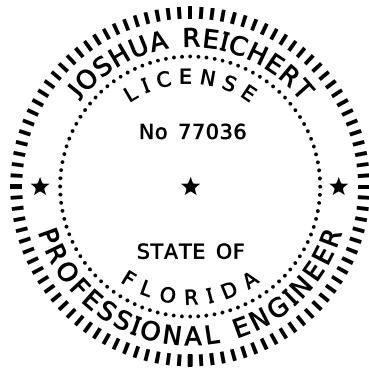
GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2023-24 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONTRACT NO.	FISCAL YEAR	SHEET NO.
	24	T-1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

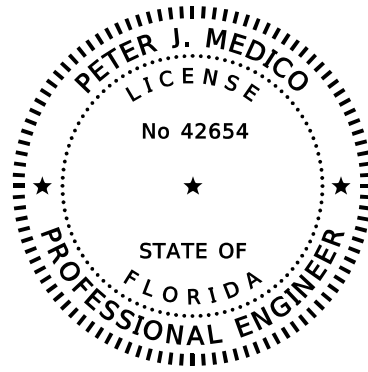
ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224
CERTIFICATE OF AUTHORIZATION 2294
JOSHUA REICHERT, P.E. NO. 77036

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5	ROADWAY PLAN
T-6	SIGNING & PAVEMENT MARKING PLAN
T-7 - T-9	SIGNALIZATION PLAN
T-10 - T-11	SIGNAL HEAD LOCATION PLAN SHEET



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.

METRIC ENGINEERING, INC.
3601 WEST COMMERCIAL BLVD., SUITE 16
FT. LAUDERDALE, FLORIDA 33309
CERTIFICATE OF AUTHORIZATION 2294
PETER J. MEDICO, P.E. NO. 42654

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
T-2	SIGNATURE SHEET
T-12	STRAIN POLE SCHEDULE

REVISIONS				JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224	LAKE COUNTY ENGINEERING DIVISION			SHEET NO. T-2
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT	COUNTY PROJECT NO.	
				LAKE	CR 19A TEMPORARY SIGNALS	21-0940A	<i>SIGNATURE SHEET</i>	

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-5		T-6		T-7		T-8		T-9									
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
101-1	MOBILIZATION	LS	1														1		1	
102-1	MAINTENANCE OF TRAFFIC	LS	1														1		1	
102-14	TRAFFIC CONTROL OFFICER	HR	24														24		24	
110-1-1	CLEARING & GRUBBING	AC	0.05														0.05		0.05	
110-22	TREE ROOT AND BRANCH PRUNING	EA	1														1		1	
285-712	OPTIONAL BASE, BASE GROUP 12	SY	244														244		244	
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	15.3														15		15	
337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	TN	10.2														10		10	
570-1-2	PERFORMANCE TURF, SOD	SY	175														175		175	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF				105			35		10						150		150	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF				155											155		155	
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF							40		40						80		80	
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI							1								1		1	
634-5-1	FIBERGLASS INSULATOR, FURNISH & INSTALL	LF							20		20						40		40	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA							6		2						8		8	
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS							1								1		1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF							25								25		25	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA							1								1		1	
643-1-50	GUYING WOOD STRAIN POLE, 50'	EA							4		4						8		8	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS					14										14		14	
650-1-16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS					4										4		4	
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA							1								1		1	
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA					7										7		7	
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS							1								1		1	
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH & INSTALL, LINE INTERACTIVE WITH CABINET	EA							1								1		1	
700-1-60	SINGLE POST SIGN, REMOVE	EA															3		3	
706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA					66										66		66	
711-11-102	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8" FOR INTERCHANGE AND URBAN ISLAND	GM					0.042										0.042		0.042	
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF					33										33		33	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF					102										102		102	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA					7										7		7	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF					70										70		70	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM					0.175										0.175		0.175	
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM					0.144										0.144		0.144	
711-17-1	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS - SURFACE TO REMAIN	SF					785										785		785	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA REICHERT, P.E.
P.E. LICENSE NUMBER 77036
METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224

LAKE COUNTY ENGINEERING DIVISION		
COUNTY	PROJECT	COUNTY PROJECT NO.
LAKE	CR 19A TEMPORARY SIGNALS	21-0940A

TABULATION OF QUANTITIES

SHEET NO.
T-3

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

GENERAL NOTES:

1. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH LAKE COUNTY TRAFFIC OPERATIONS, (352) 742-1766, PRIOR TO ANY CONSTRUCTION.
2. IT SHALL BE NOTED THAT NO TEST BORINGS BE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS PRIOR TO SUBMITTING BID PROPOSALS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING LAKE COUNTY TRAFFIC OPERATIONS, AT 352-742-1766, 48 HOURS IN ADVANCE OF ALL PHASES OF CONSTRUCTION INCLUDING AND NOT LIMITED TO, INSTALLING SIGNAL POLES, GROUND RODS, UNDERGROUND CONDUIT, SIGNAL HEAD ASSEMBLIES, AND LOOP INSTALLATION.
4. DURING CONSTRUCTION TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE FDOT STANDARD PLANS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS INCLUDING THE ELECTRIC PERMIT. THE APPLICATION FOR POWER SHOULD BE COORDINATED WITH LAKE COUNTY TRAFFIC OPERATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY PROVIDING THE ELECTRICAL POWER, TO DETERMINE IF ANY ADDITIONAL FEES ARE REQUIRED TO CONNECT POWER. IF REQUIRED, THE FEE SHALL BE INCLUDED AS PART OF BID ITEM PAYMENT FOR ELECTRICAL SERVICE ASSEMBLY.
7. THE EXACT LOCATIONS OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION.
8. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND HAVE IT APPROVED BY LAKE COUNTY TRAFFIC OPERATIONS.
9. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE A CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND WHEN JOINT USE POLES ARE TO BE USED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE PROPER AMOUNT OF RAKE WITH RESPECT TO LOADING TO BE USED ON POLES AT THE TIME OF INSTALLATION.
11. ALL MATERIALS AND HARDWARE SHALL BE F.D.O.T. APPROVED, AND PRE-APPROVED BY LAKE COUNTY TRAFFIC OPERATIONS.
12. ALL REMOVED EQUIPMENT SHALL BE DELIVERED TO LAKE COUNTY TRAFFIC OPERATIONS, 28127 C.R. 561, TAVARES, 352-742-1766, EXCEPT SIGNAL POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR.

NOTE: CARE SHALL BE TAKEN NOT TO DAMAGE THE EQUIPMENT IN THE REMOVAL PROCESS.
13. ANY STRIPING/PAVEMENT MARKINGS OR LANDSCAPING DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
14. THE COST FOR THE USE OF "TRAFFIC CONTROL OFFICER" IN THE EVENT OF LANE CLOSURES SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.
15. THE CONTRACTOR SHALL FURNISH LAKE COUNTY TRAFFIC OPERATIONS WITH EMERGENCY CONTACTS AND PHONE NUMBERS AND HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A MAXIMUM TWO HOUR RESPONSE TIME.

LOOPS/PULL BOXES:

16. PULL BOX COVER SHALL BE FDOT APPROVED NON METALLIC WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTICS" AS APPROPRIATE.
 17. PULL BOXES SHALL BE LOCATED AWAY FROM EDGE OF PAVEMENT, OR BEHIND A CURB WHEN POSSIBLE, ATTEMPTING TO KEEP FROM THE BOTTOM OF A DITCH OR RETENTION AREA, AND WHERE LARGE VEHICLES PARK.
 18. MULTIPLE CONDUITS IN THE SAME RUN SHALL BE PAID FOR AS DIRECTIONAL BORED OR JACK AND BORED FOR THE FIRST CONDUIT ONLY, ALL OTHERS WILL BE PAID FOR AS UNDERGROUND. ALL FIBER OR FUTURE USE CONDUIT SHALL HAVE A LOCATE WIRE INSTALLED.
- CABINET/CONTROLLER:
19. THE CABINET ASSEMBLY 70006-TS2/FL TYPE-6 WITH REAR DOOR TS2-1; WITH A TS2-1 INTELIGHT-0FRRE CONTROLLER XN-1 OR XN-2 CONTROLLER ETHERNET ENABLED FOR COUNTY CLOSED LOOP SYSTEM, TO INCLUDE AN ETHERNET SWITCH WITH BYPASS CAPABILITIES, TO INCLUDE A GENERATOR SWITCH BOX PANEL. TYPE 6 CABINET.
 20. A GENERATOR PAD, 3'X3'X4" CONCRETE SHALL BE INSTALLED WITH 5/8" EYEBOLT INSTALLED IN THE PAD ADJACENT TO CABINET BASE.
 21. THE CABINET CONCRETE BASE SHALL BE A MINIMUM OF 32"X48" TO ACCOMMODATE TYPE 6 CABINETS.
 22. GROUNDING FOR THE CONTROLLER ASSEMBLY SHALL MEASURE 25 OHMS. OR LESS.
 23. THE CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION WHEN POSSIBLE.
 24. THE MOUNTING OF THE ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL CABINET SHALL BE PROHIBITED.
 25. AN ELECTRIC SERVICE DISCONNECT WITH A 30 AMP BREAKER FOR THE TRAFFIC SIGNAL SHALL BE INSTALLED AT THE TRAFFIC SIGNAL CABINET ON A SEPARATE POLE.
 26. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.

SIGNAL HEADS:

27. SIGNAL HEADS SHALL BE WIRED DIRECTLY TO THE TERMINAL BLOCKS. THE USE OF "JONES" PLUGS IS PROHIBITED.
28. DISCONNECTS SHALL OPEN FROM THE SIGNAL FACE. (NOT FROM THE REAR)
29. SIGNAL HEADS SHALL BE WIRED PER IMSA NEMA PHASING, PHASE 2 AND 6 ARE TYPICALLY ASSIGNED TO MAJOR-STREET WITH PHASE 2 BEING SOUTH OR WEST BOUND THROUGH MOVEMENTS. THE USUAL CONVENTION IS FOR THROUGH PHASES TO BE NUMBERED IN THE CLOCKWISE DIRECTION STARTING WITH PHASE 2, AND THE LEFT-TURN PHASES TO BE NUMBERED IN THE CLOCKWISE DIRECTION, WITH PHASE 1 BEING ACCOMPANYING LEFT-TURN TO PHASE 6.
30. VEHICLE SIGNAL HEAD ASSEMBLIES SHALL BE BLACK, CAST ALUMINUM, WITH TUNNEL VISORS, AND LED'S FOR ALL INDICATIONS, UNLESS OTHERWISE NOTED.

SIGNAL HEADS (CONT.):

31. SIGNAL CABLE SHALL BE ATTACHED TO MESSENGER WIRE USING PROPER SIZE SPIRAL WRAP.
32. FOR SPAN WIRE ASSEMBLIES, THE DUAL POINT SPAN WIRE ATTACHMENT, FDOT STANDARD PLANS INDEX 634-001 DSR REQUIRING A TRI-STUD ADJUSTABLE HANGER, EXTENSION CONNECTOR, SPAN WIRE CLAMP AND MESSENGER WIRE CLAMP SHALL BE USED.

OTHERS:

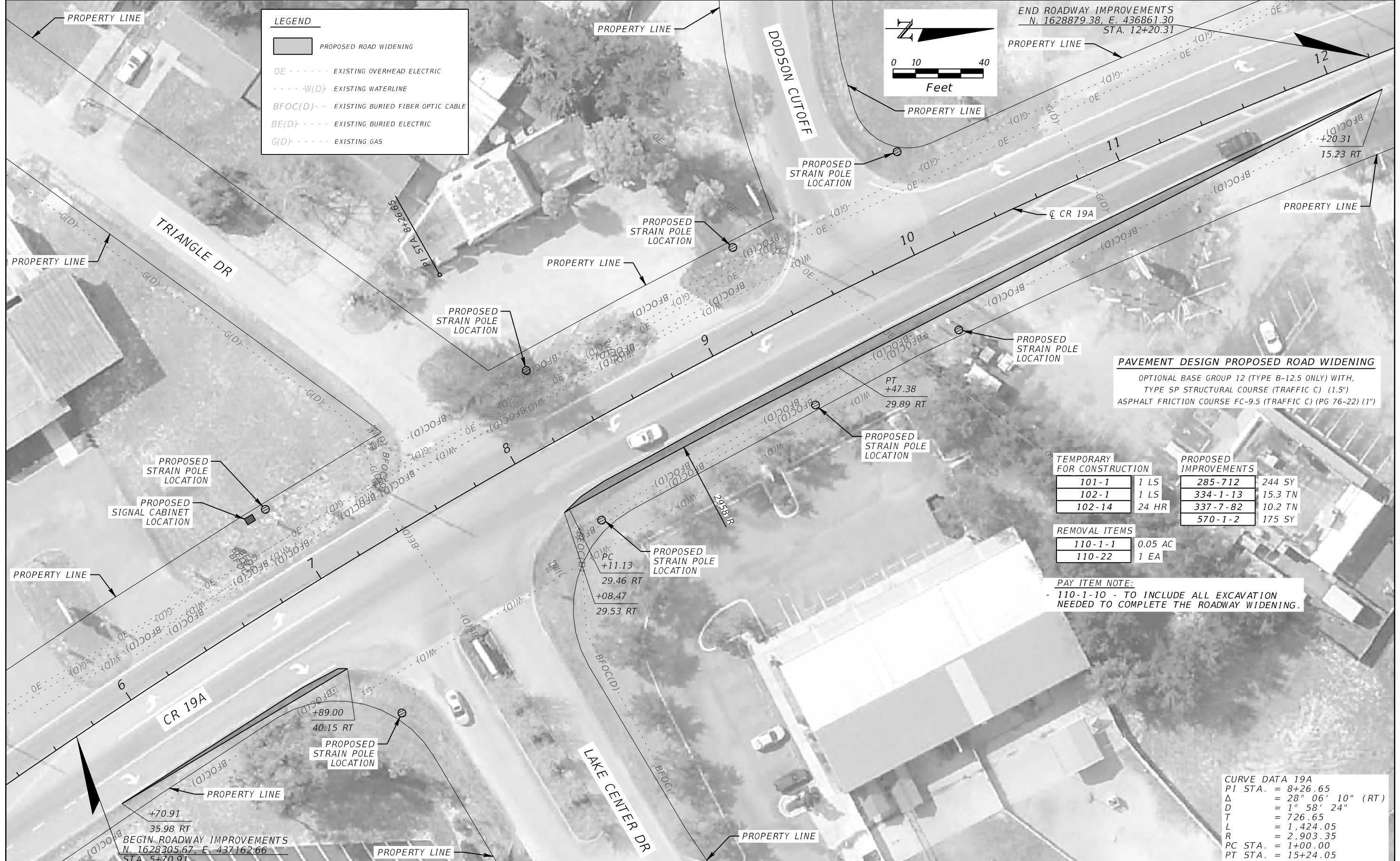
33. A NTCIP CCTV ASSEMBLY SHALL BE FURNISHED AND INSTALLED AT A LOCATION FOR OPTIMAL PERFORMANCE. IT MUST BE COMPATIBLE WITH OUR CURRENT SYSTEM. THE CAMERA WILL HAVE ELECTRONIC IMAGE STABILIZATION AND PTZ CONTROL. THE ASSEMBLY WILL INCLUDE A SURGE PANEL, A VIDEO CONVERTER AND SPECIAL MOUNTING HARDWARE IF NEEDED TO GET OPTIMAL PERFORMANCE.
34. OPTICOM PREEMPTION OR EQUIVALENT SHALL BE USED WHEN EMERGENCY PREEMPTION IS REQUESTED.

UTILITIES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, and Vvh ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. UTILITY/AGENCY OWNERS:

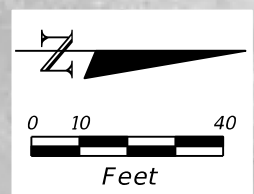
COMPANY	CONTACT	TELEPHONE OR EMAIL
CENTURYLINK	JOHN BRUGNOLI	(352) 326-1698
CENTURYLINK/LUMEN	MICHAEL HUNT	(716) 480-2073
CITY OF MOUNT DORA - FIBER	EMILY RAGUSA	(352) 735-7112
CITY OF TAVARES	PHIL CLARK	N/A
COMCAST COMMUNICATIONS	SCOTT OSEBOLD	(352) 315-8527
DUKE ENERGY DISTRIBUTION	HARRISON JENKINS	(689) 234-2498
DUKE ENERGY TRANSMISSION	JENNIFER WILLIAMS	(813) 909-1210
DUKE ENERGY - FIBER	MARK HURST	(727) 820-5208
SUMMIT BROADBAND	MICHELLE DANIEL	(407) 996-1183
TECO PEOPLE'S GAS	BRUCE STOUT	(407) 420-2678

REVISIONS				JOSHUA REICHERT, P.E. P.E. LICENSE NUMBER 77036 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224	LAKE COUNTY ENGINEERING DIVISION			SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT	COUNTY PROJECT NO.	
					LAKE	CR 19A TEMPORARY SIGNALS	21-0940A	



LEGEND

	PROPOSED ROAD WIDENING
OE - - - - -	EXISTING OVERHEAD ELECTRIC
- - - - - W(D)	EXISTING WATERLINE
BFOC(D) - - - - -	EXISTING BURIED FIBER OPTIC CABLE
BE(D) - - - - -	EXISTING BURIED ELECTRIC
G(D) - - - - -	EXISTING GAS



PAVEMENT DESIGN PROPOSED ROAD WIDENING
 OPTIONAL BASE GROUP 12 (TYPE B-12.5 ONLY) WITH,
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
 ASPHALT FRICTION COURSE FC-9.5 (TRAFFIC C) (PG 76-22) (1")

TEMPORARY FOR CONSTRUCTION		PROPOSED IMPROVEMENTS	
101-1	1 LS	285-712	244 SY
102-1	1 LS	334-1-13	15.3 TN
102-14	24 HR	337-7-82	10.2 TN
		570-1-2	175 SY

REMOVAL ITEMS	
110-1-1	0.05 AC
110-22	1 EA

PAY ITEM NOTE:
 - 110-1-10 - TO INCLUDE ALL EXCAVATION NEEDED TO COMPLETE THE ROADWAY WIDENING.

CURVE DATA 19A

PI STA.	= 8+26.65
Δ	= 28° 06' 10" (RT)
D	= 1° 58' 24"
T	= 726.65
L	= 1,424.05
R	= 2,903.35
PC STA.	= 1+00.00
PT STA.	= 15+24.05

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

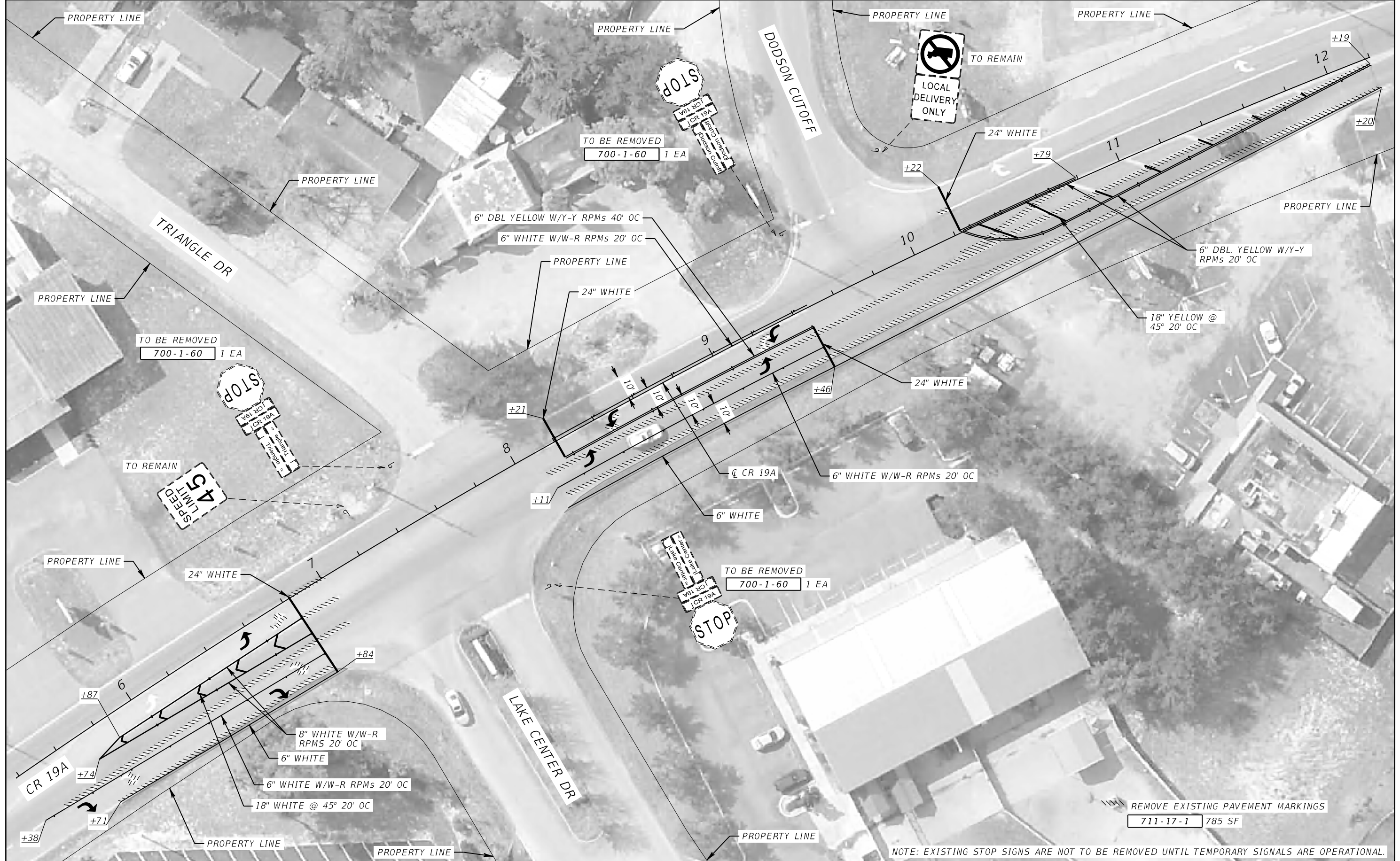
JOSHUA REICHERT, P.E.
 P.E. LICENSE NUMBER 77036
 METRIC ENGINEERING, INC.
 11760 MARCO BEACH DRIVE, SUITE 1
 JACKSONVILLE, FLORIDA 32224

LAKE COUNTY ENGINEERING DIVISION		
COUNTY	PROJECT	COUNTY PROJECT NO.
LAKE	CR 19A TEMPORARY SIGNALS	21-0940A

ROADWAY PLAN

SHEET NO.
 T-5

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REMOVE EXISTING PAVEMENT MARKINGS
711-17-1 785 SF

NOTE: EXISTING STOP SIGNS ARE NOT TO BE REMOVED UNTIL TEMPORARY SIGNALS ARE OPERATIONAL.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

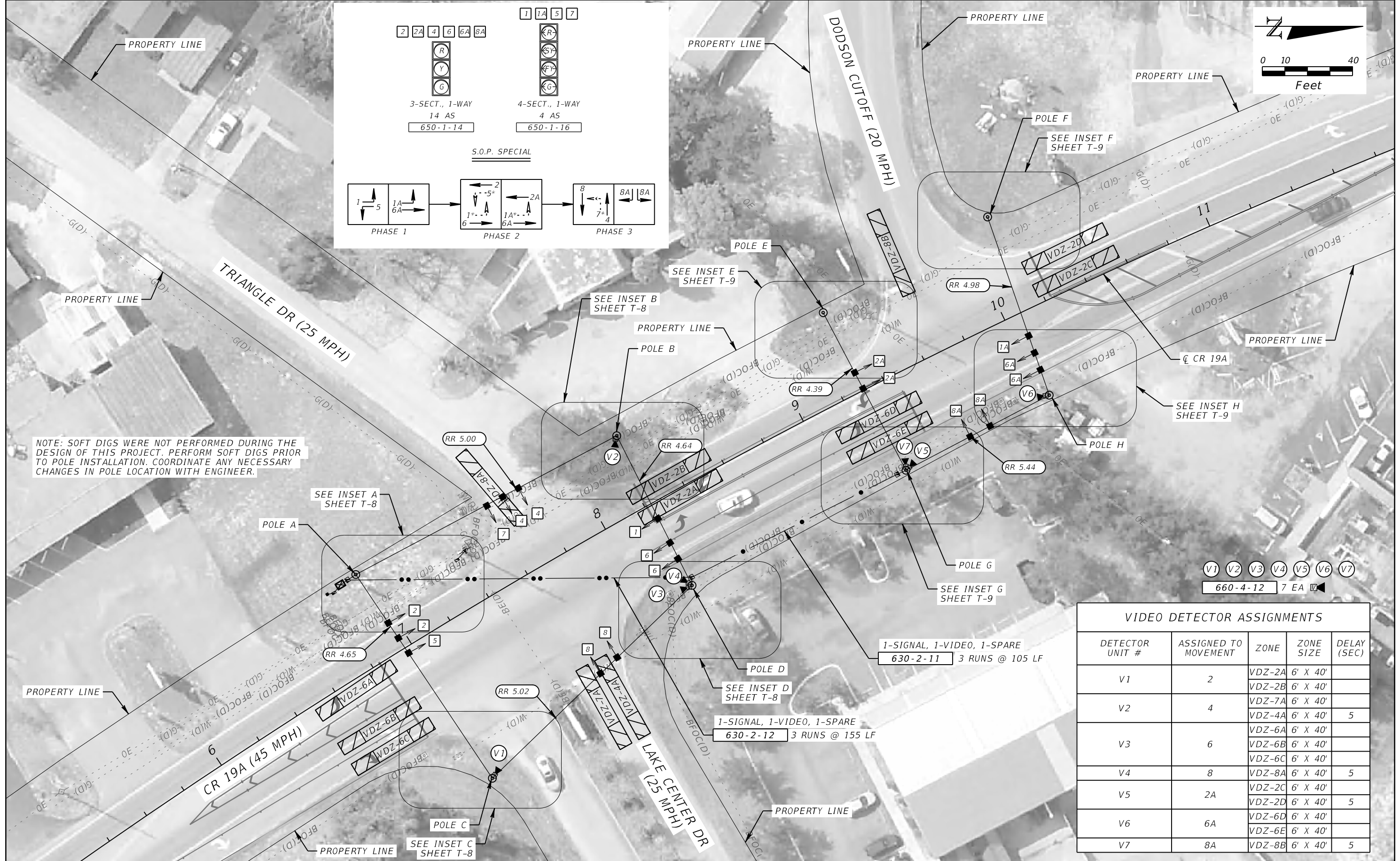
JOSHUA REICHERT, P.E.
P.E. LICENSE NUMBER 77036
METRIC ENGINEERING, INC.
11760 MARCO BEACH DRIVE, SUITE 1
JACKSONVILLE, FLORIDA 32224

LAKE COUNTY ENGINEERING DIVISION		
COUNTY	PROJECT	COUNTY PROJECT NO.
LAKE	CR 19A TEMPORARY SIGNALS	21-0940A

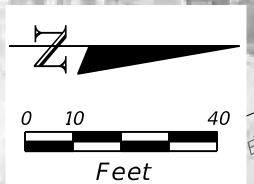
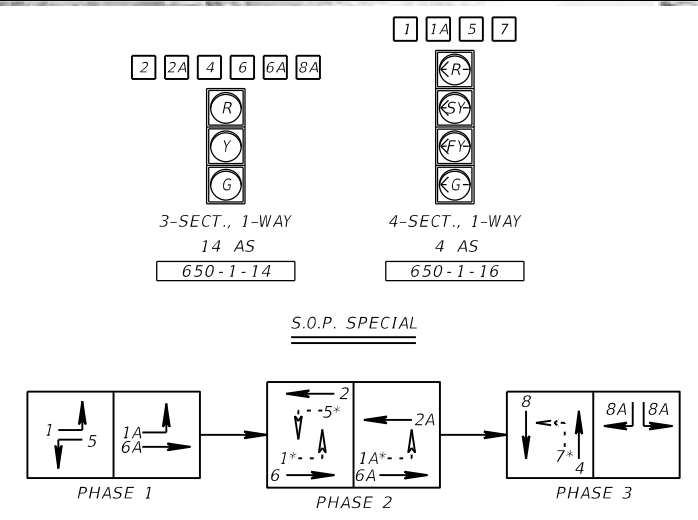
**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET
NO.
T-6

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NOTE: SOFT DIGS WERE NOT PERFORMED DURING THE DESIGN OF THIS PROJECT. PERFORM SOFT DIGS PRIOR TO POLE INSTALLATION. COORDINATE ANY NECESSARY CHANGES IN POLE LOCATION WITH ENGINEER.



VIDEO DETECTOR ASSIGNMENTS				
DETECTOR UNIT #	ASSIGNED TO MOVEMENT	ZONE	ZONE SIZE	DELAY (SEC)
V1	2	VDZ-2A	6' X 40'	
		VDZ-2B	6' X 40'	
V2	4	VDZ-7A	6' X 40'	
		VDZ-4A	6' X 40'	5
V3	6	VDZ-6A	6' X 40'	
		VDZ-6B	6' X 40'	
		VDZ-6C	6' X 40'	
V4	8	VDZ-8A	6' X 40'	5
V5	2A	VDZ-2C	6' X 40'	
		VDZ-2D	6' X 40'	5
V6	6A	VDZ-6D	6' X 40'	
		VDZ-6E	6' X 40'	
V7	8A	VDZ-8B	6' X 40'	5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

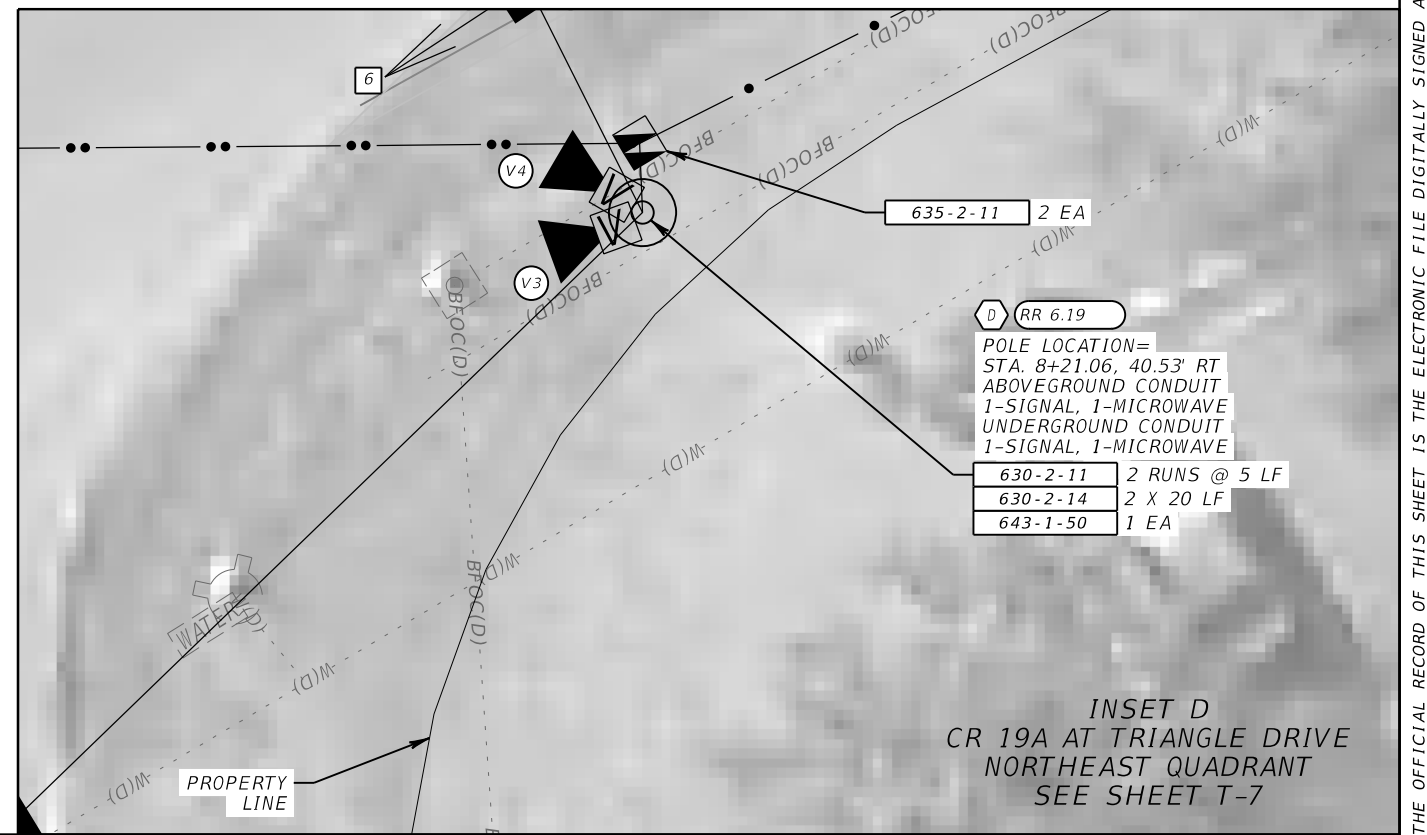
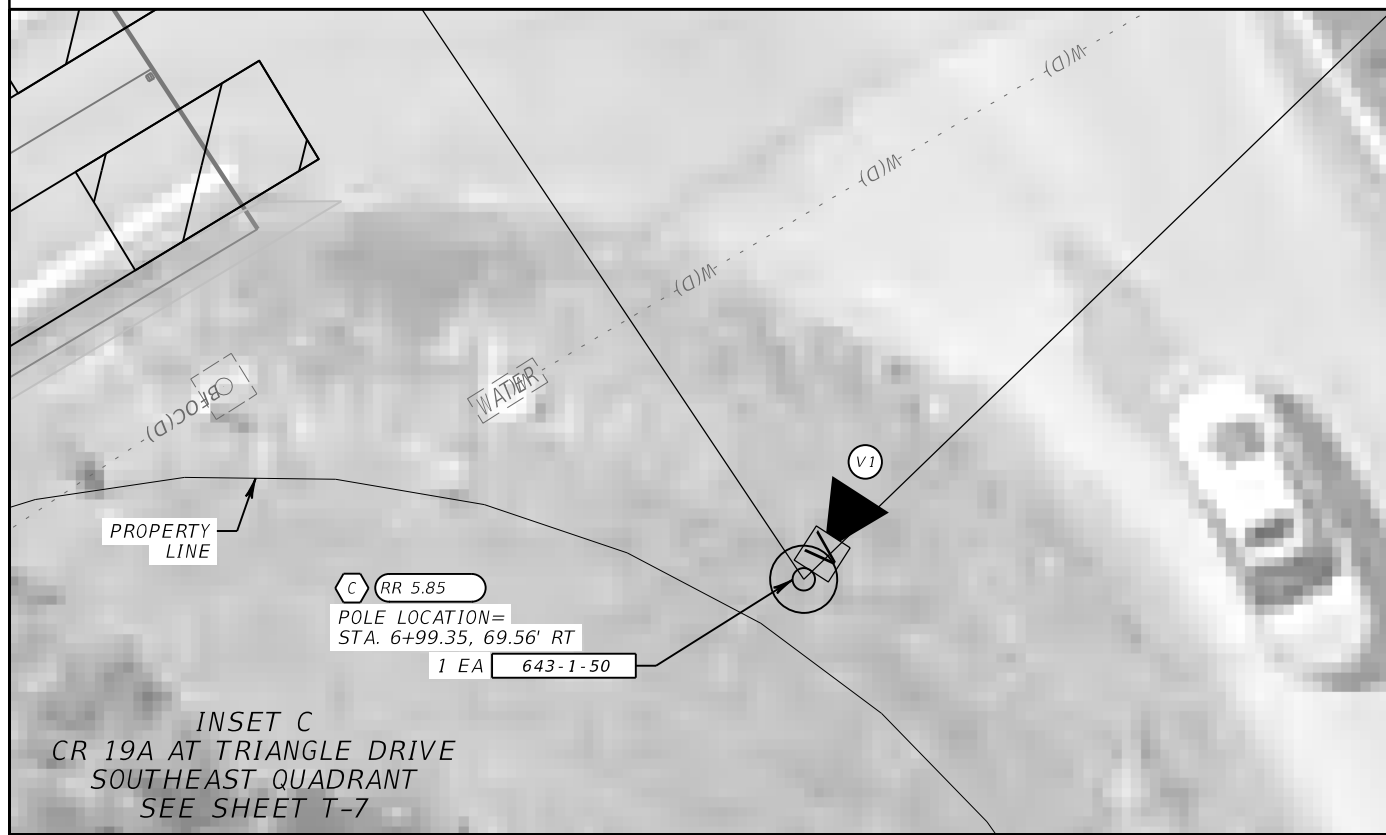
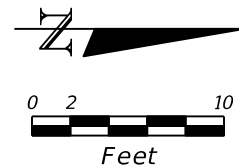
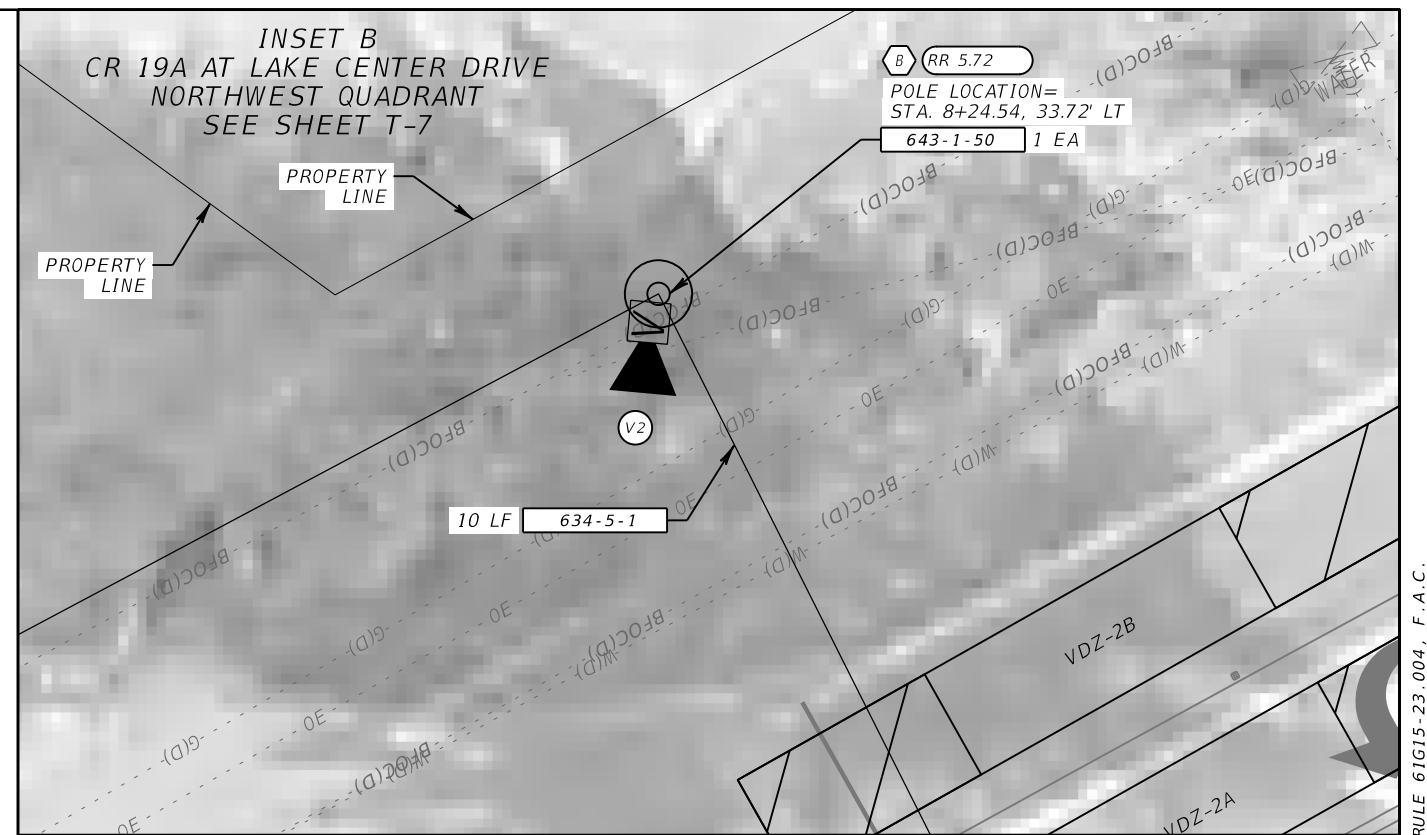
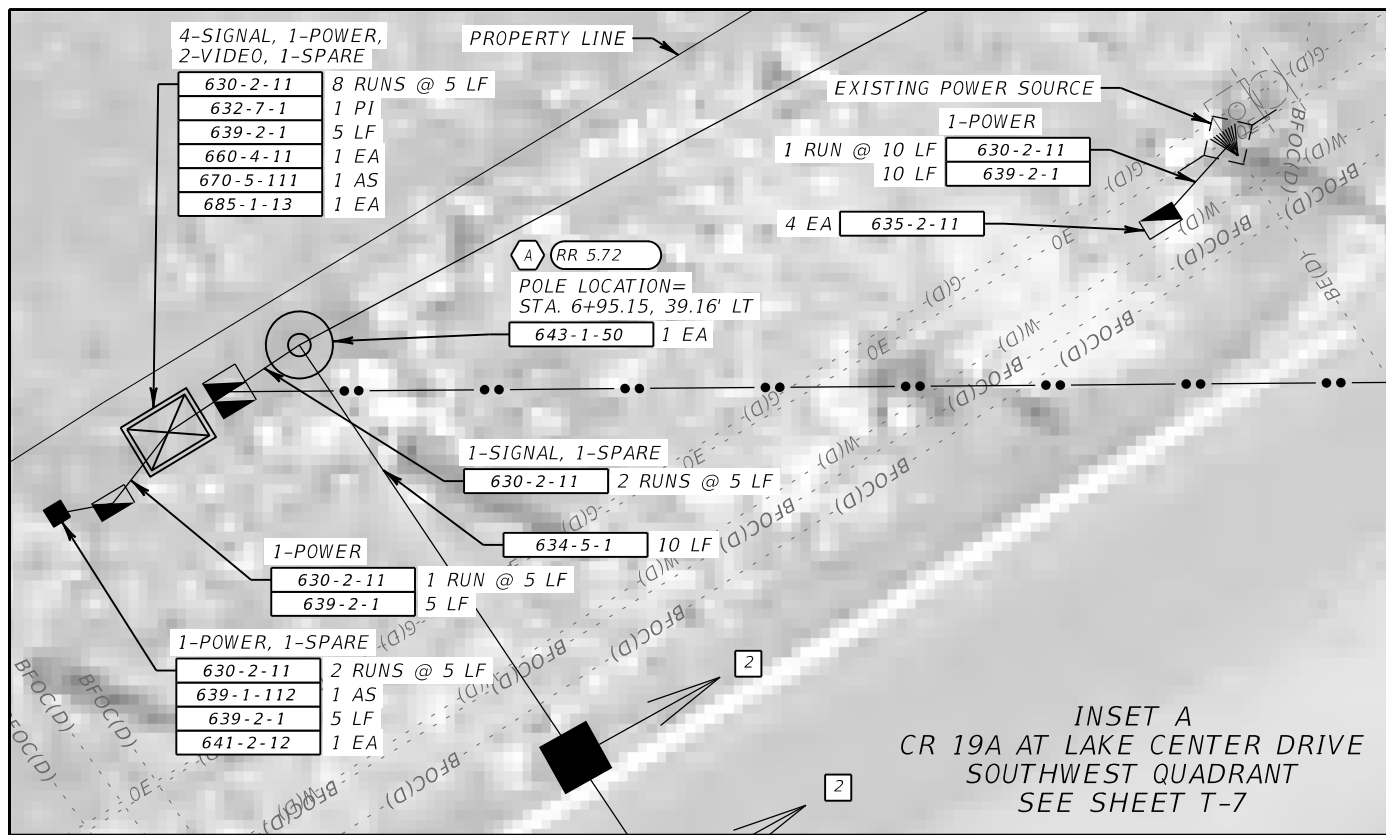
JOSHUA REICHERT, P.E.
 P.E. LICENSE NUMBER 77036
 METRIC ENGINEERING, INC.
 11760 MARCO BEACH DRIVE, SUITE 1
 JACKSONVILLE, FLORIDA 32224

LAKE COUNTY ENGINEERING DIVISION		
COUNTY	PROJECT	COUNTY PROJECT NO.
LAKE	CR 19A TEMPORARY SIGNALS	21-0940A

SIGNALIZATION PLAN

SHEET NO.
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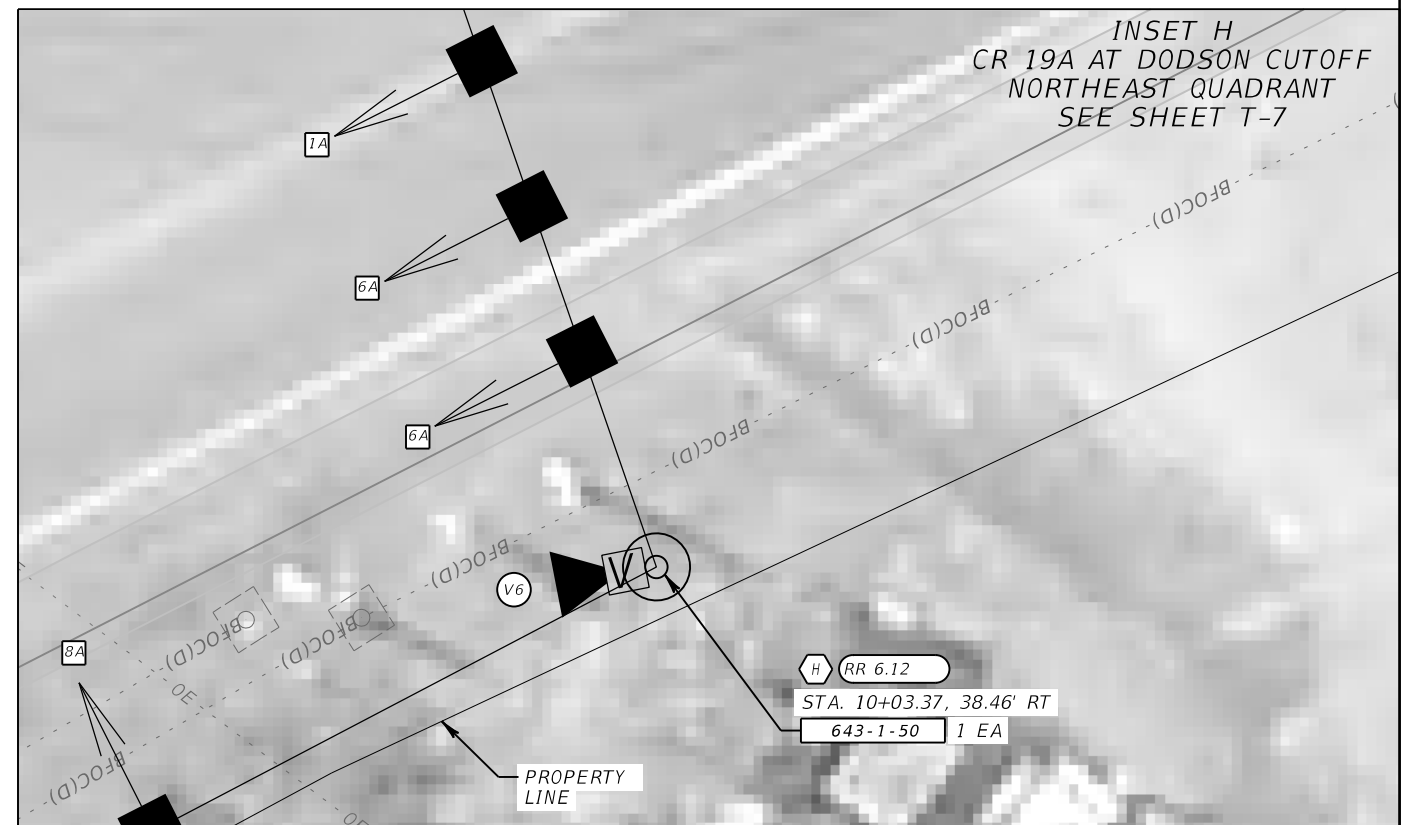
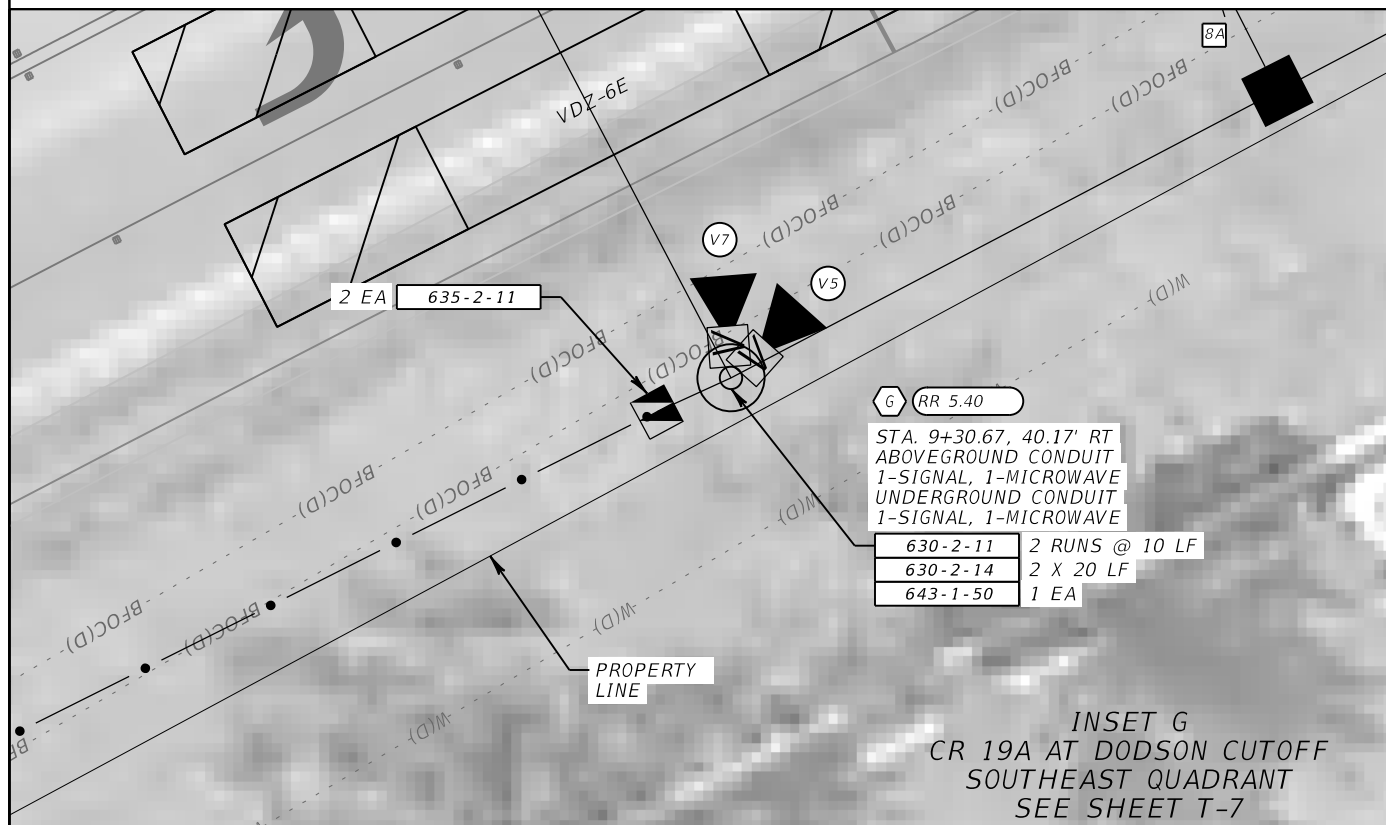
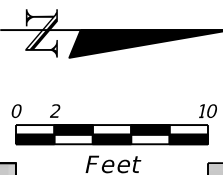
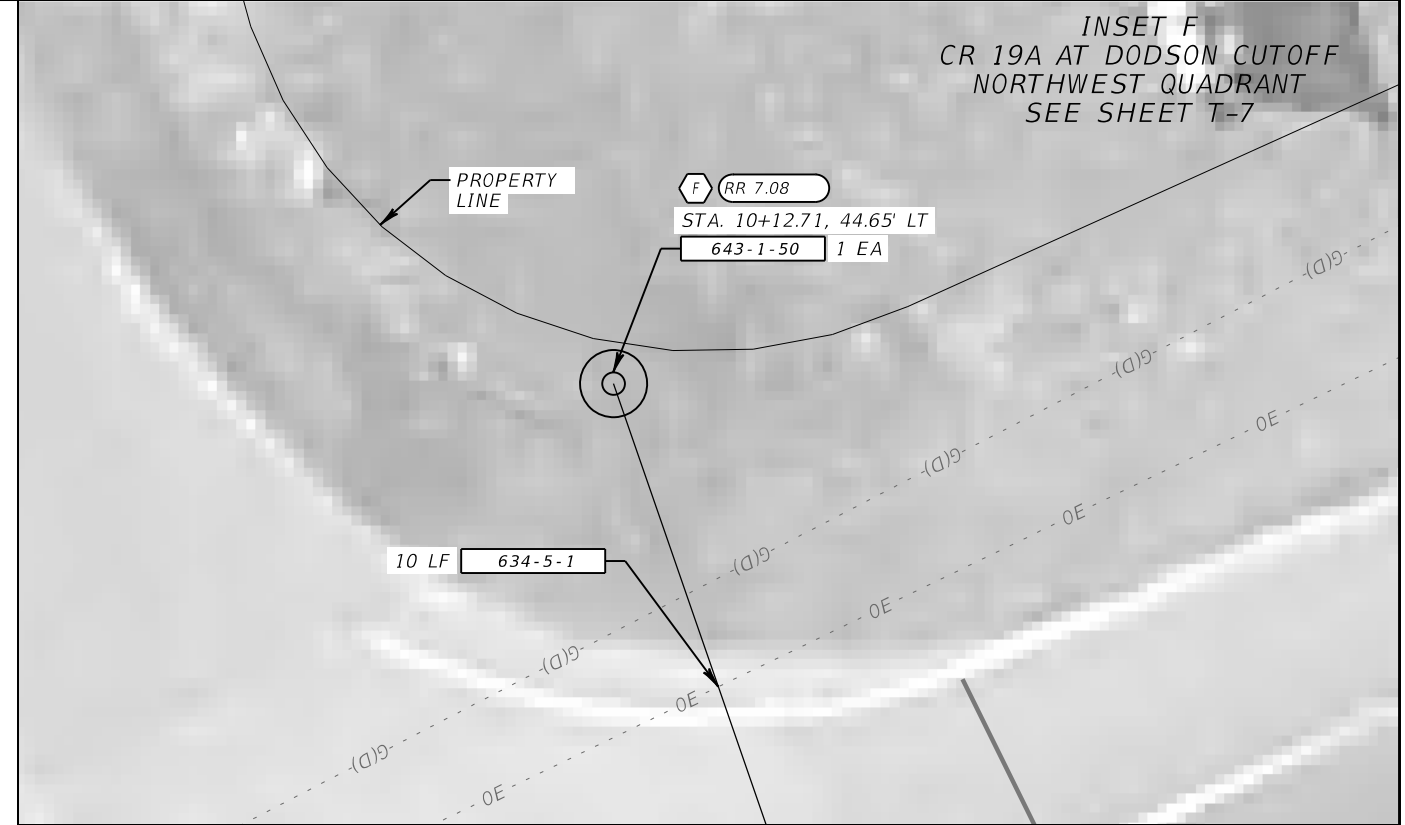
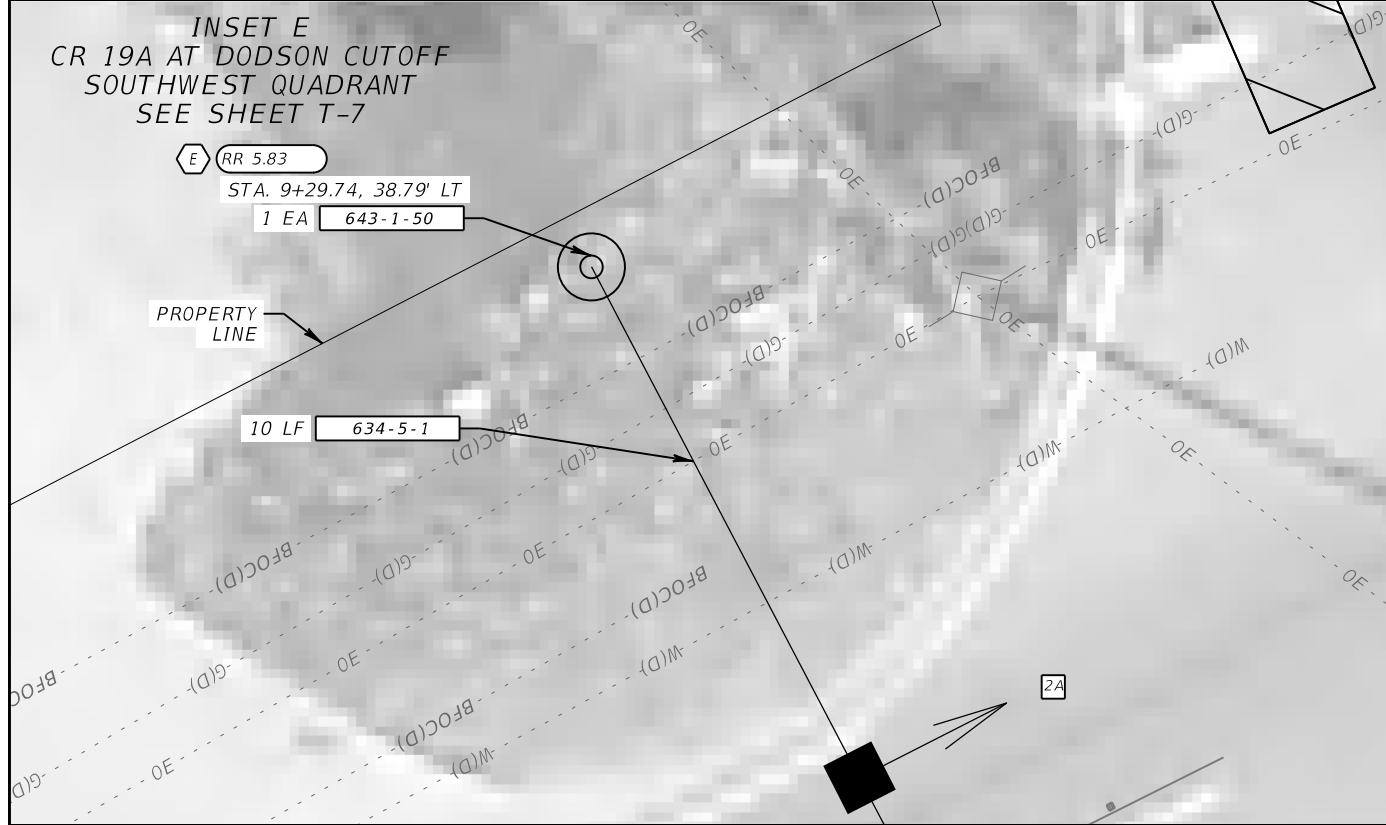
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SIGNALIZATION PLAN

SHEET NO.
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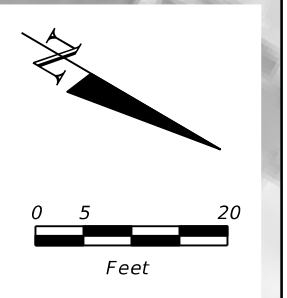
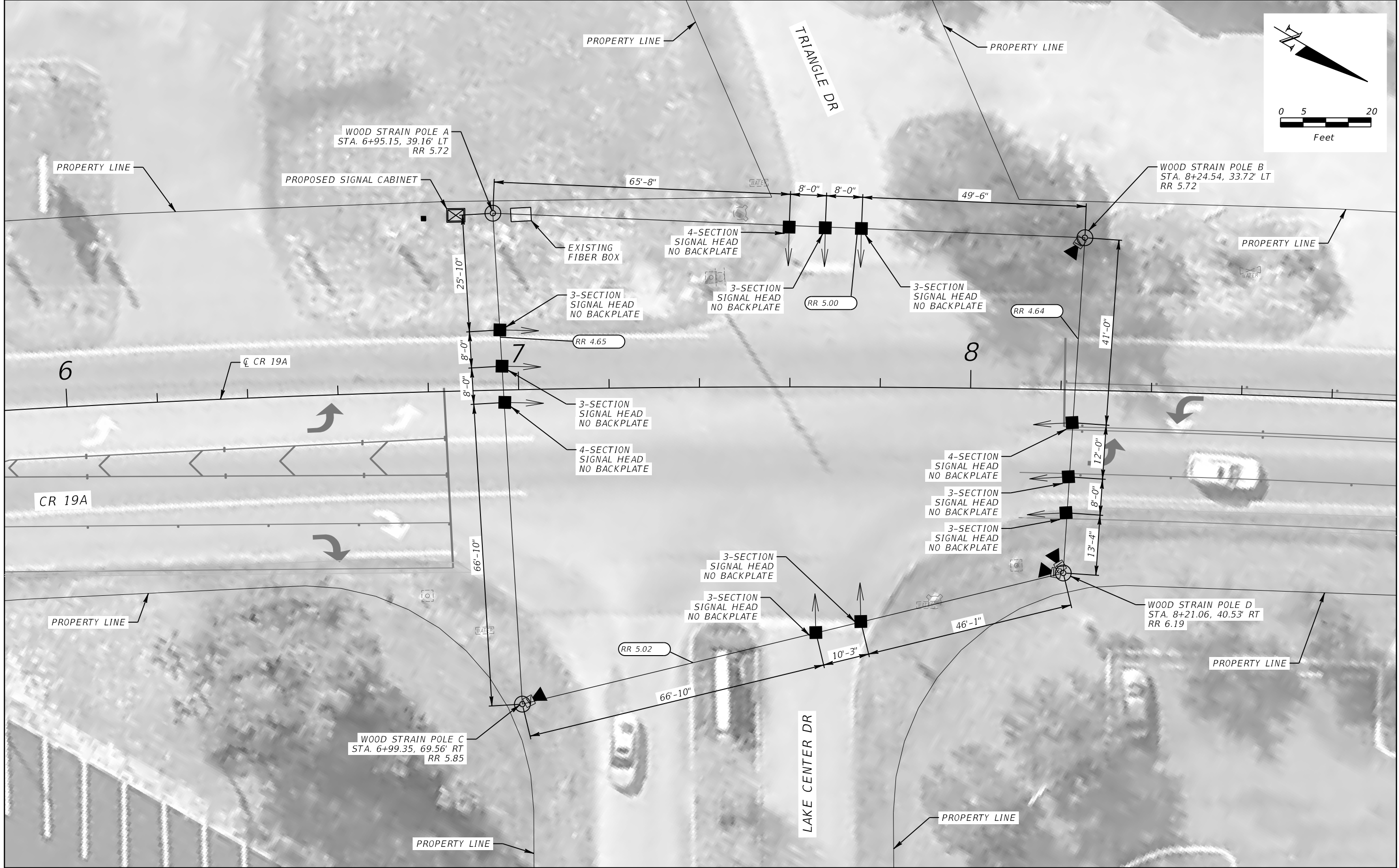
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SIGNALIZATION PLAN

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T-9

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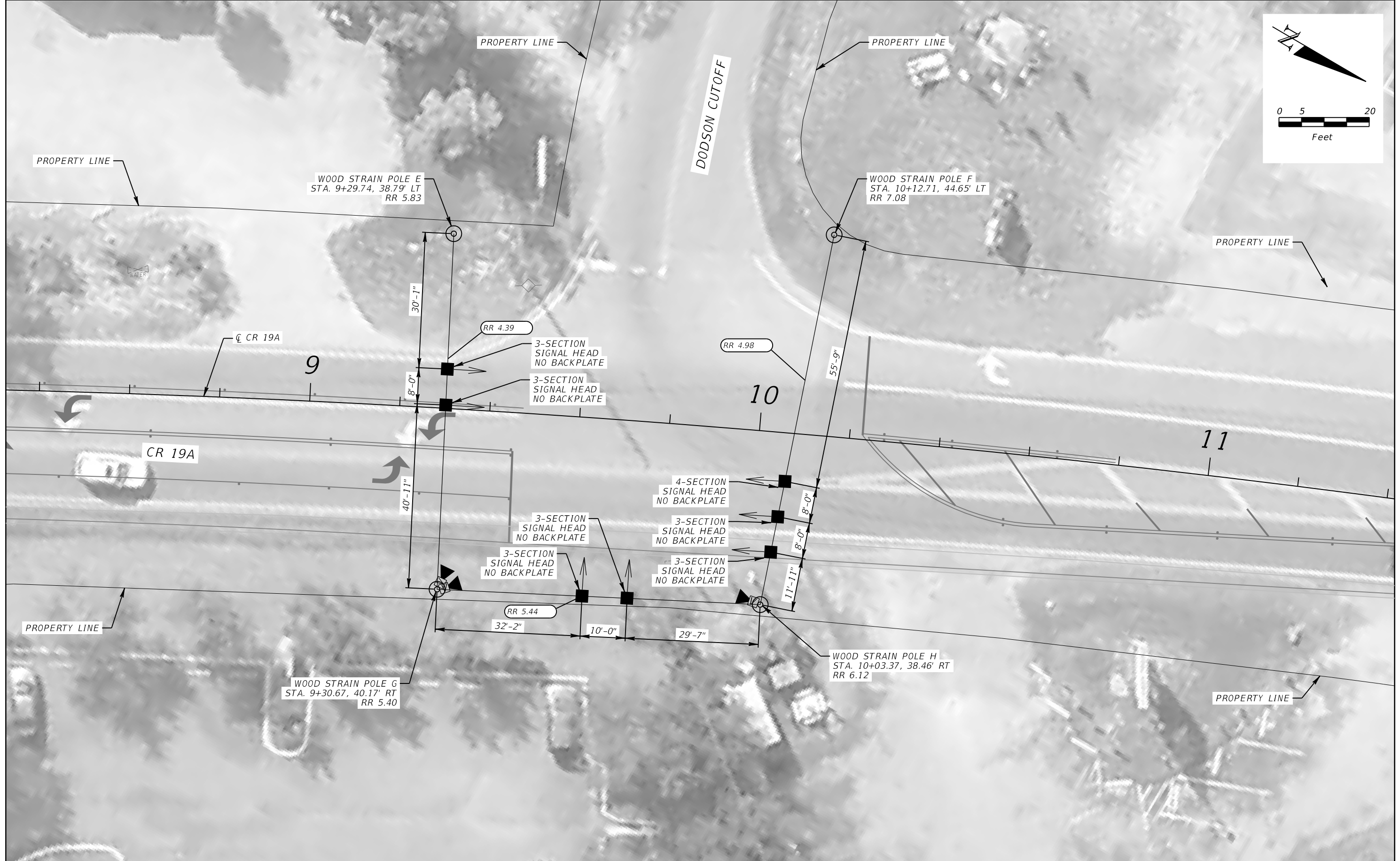
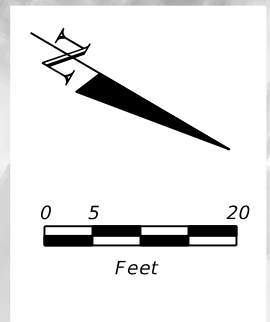
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LAKE	CR 19A TEMPORARY SIGNALS	21-0940A

**SIGNAL HEAD
 LOCATION PLAN**

SHEET NO.
 T-10

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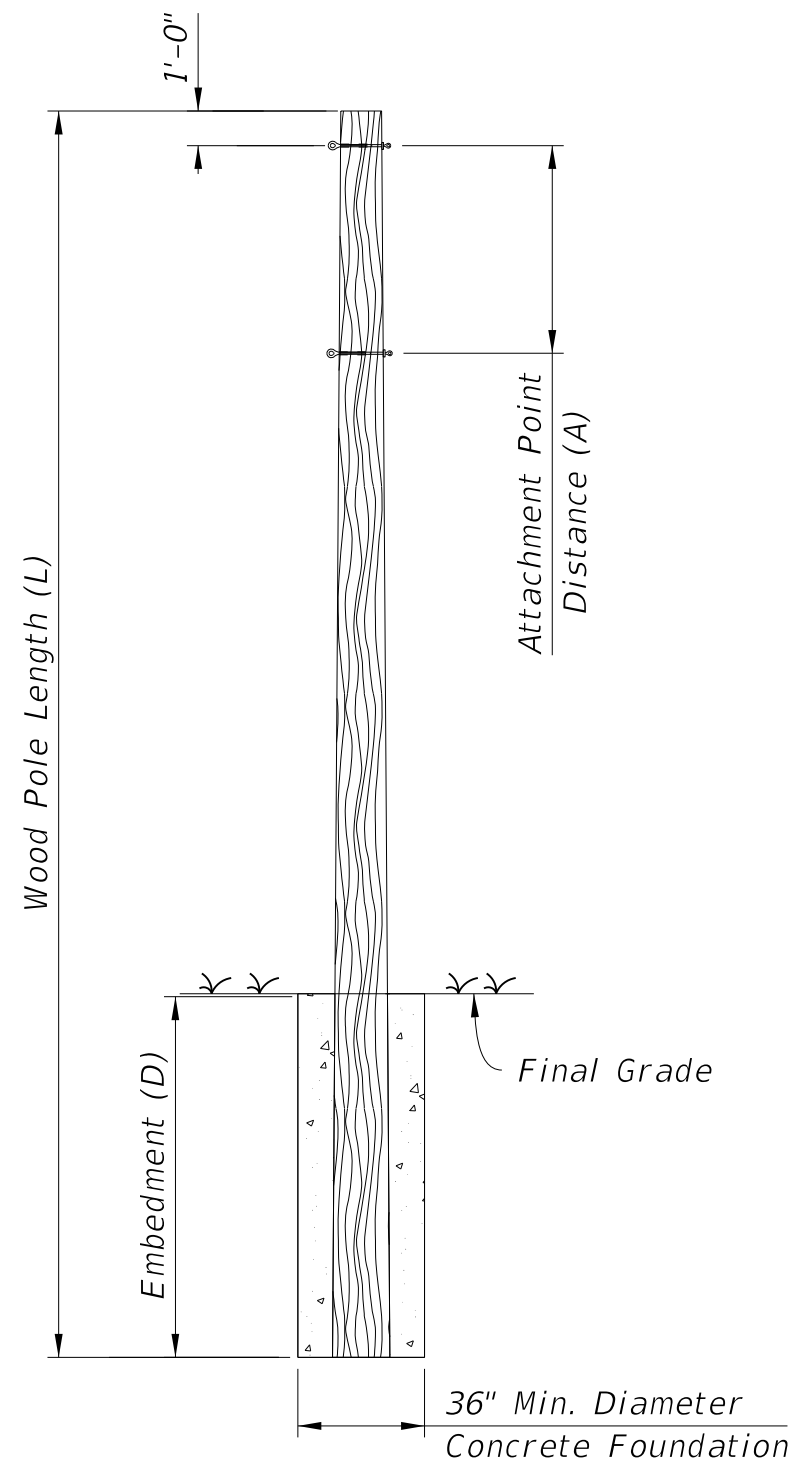
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LAKE COUNTY ENGINEERING DIVISION		
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LAKE	CR 19A TEMPORARY SIGNALS	21-0940A

**SIGNAL HEAD
 LOCATION PLAN**

SHEET NO.
 T-11

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WOOD POLE SECTION

(Refer to Standard Plan 634-001 for other Specifications)

WOOD STRAIN POLE SCHEDULE										
ID NO.	SHEET NO.	POLE LOCATION		FINAL GRADE ROD READING	CROWN ROD READING	POLE TYPE	POLE LENGTH (L)	WOOD POLE EMBEDMENT (D)	ATTACHMENT POINT DIST. (A)	PAY ITEM NUMBER
		STATION	OFFSET							
A	T-7	6+95.15	39.16' LT	5.72	4.65	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150
B	T-7	8+24.54	33.72' LT	5.72	4.64	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150
C	T-7	6+99.35	69.56' RT	5.85	4.65	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150
D	T-7	8+21.06	40.53' RT	6.19	4.64	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150
E	T-8	9+29.74	38.79' LT	5.83	4.39	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150
F	T-8	10+12.71	44.65' LT	7.08	4.98	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150
G	T-8	9+30.67	40.17' RT	5.40	4.39	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150
H	T-8	10+03.37	38.46' RT	6.12	4.98	ANSI POLE CLASS H3	45.00	12.00	8'-0"	643-150

Messenger Wire Diameter : $\frac{3}{8}$ Utility Grade

Catenary Wire Diameter : $\frac{3}{8}$ " Utility Grade

Foundation Design is based on the following Soil Parameters:

Effective Soil Unit Weight = 47 pcf

Angle of Internal Friction = 30 deg.

NOTES:

1. For use with FDOT Standard Plans - FY 2023-2024
2. Design Wind Speed = 80 mph; (Temporary Signalization).
3. The method of attachment is two -point for the wood pole overhead assembly as specified in Standard Plan 634-001.
4. A properly sized service head, (weatherhead) shall be installed and fastened securely onto conduit at poles A and G.

REVISIONS				PETER J. MEDICO, P.E. P.E. LICENSE NUMBER 42654 METRIC ENGINEERING, INC. 3601 WEST COMMERCIAL BLVD., SUITE 16 FT. LAUDERDALE, FLORIDA 33309	LAKE COUNTY ENGINEERING DIVISION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT	COUNTY PROJECT NO.	
					LAKE	CR 19A TEMPORARY SIGNALS	21-0940A	STRAIN POLE SCHEDULE T-12

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