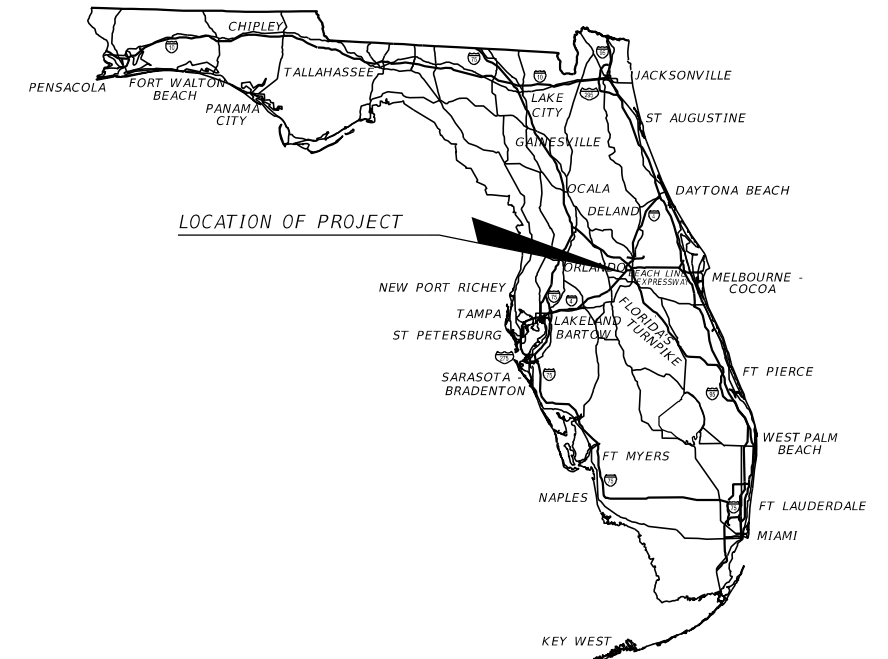


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 441113-1-52-01
(FEDERAL FUNDS)
ORANGE COUNTY (75280)
STATE ROAD NO. 400 (1-4)

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5	SIGNAL DETAILS
T-6 - T-8	SIGNALIZATION PLANS
T-9 - T-10	QUADRANT DETAILS
T-11	STANDARD MAST ARM TABULATION
T-12	GUIDE SIGN WORK SHEET

**SIGNALIZATION PLANS
ENGINEER OF RECORD:**

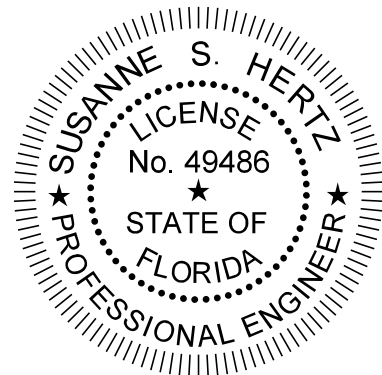
SUSANNE S. HERTZ, P.E. NO.: 49486
TRAFFIC ENGINEERING DATA SOLUTIONS INC.
80 SPRING VISTA DRIVE
DEBARY, FL 32713
(386) 753-0558
CONTRACT NO.: C9P21
VENDOR NO.: F208375642002
CERTIFICATE OF AUTHORIZATION NO.: 27392

FDOT PROJECT MANAGER:

SU HAO, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	21	T-1

PRELIMINARY: NOT FOR CONSTRUCTION



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

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

TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
80 SPRING VISTA DRIVE
DEBARY, FL 32713
CERTIFICATE OF AUTHORIZATION: 27392
SUSANNE S. HERTZ, P.E. NO. 49486

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
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REVISIONS				SUSANNE S. HERTZ, P.E. PE No. 49486 Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>SIGNATURE SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-5		T-7		T-8													
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF																		
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI																		
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
641-2-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 PEDESTAL	EA																		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																		
649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 40'	EA																		
649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	EA																		
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	EA																		
649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 70'	EA																		
649-21-21	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 78'	EA																		
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS																		
650-1-70	VEHICULAR TRAFFIC SIGNAL, RELOCATE - INCLUDES REMOVAL AND REINSTALLATION	AS																		
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS																		
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAY	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																		
660-4-11	VEHICLE DETECTION SYSTEM - VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA																		
660-4-12	VEHICLE DETECTION SYSTEM - VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA																		
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA																		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS																		
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH & INSTALL, LINE INTERACTIVE WITH CABINET	EA																		
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-3-202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12 - 20 SF	EA																		
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA																		

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					SUSANNE S. HERTZ, P.E. PE No. 49486 Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>SR 400</td> <td>ORANGE</td> <td>441113-1-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	ORANGE	441113-1-52-01	SHEET NO. T-3	
REVISIONS																												
DATE	DESCRIPTION	DATE	DESCRIPTION																									
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																										
SR 400	ORANGE	441113-1-52-01																										

PRELIMINARY: NOT FOR CONSTRUCTION

GENERAL:

1. MAINTAINING AGENCY CONTACT:
ORANGE COUNTY TRAFFIC ENGINEERING 4200 S. JOHN YOUNG PARKWAY, ORLANDO, FL
2. TRAFFIC SIGNAL CONTACT:
ORANGE COUNTY TRAFFIC ENGINEERING - (407) 836-7890
FDOT TRAFFIC SIGNAL QUALITY ASSURANCE MANAGER - (386) 943-5318

CONTROLLER:

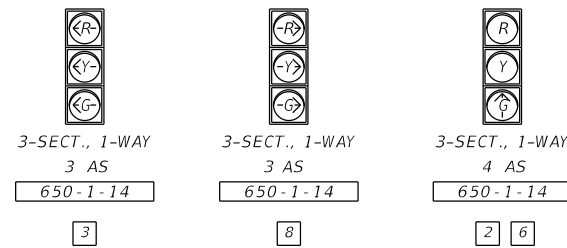
1. THE CONTROLLER ASSEMBLY SHALL CONSIST OF A NEMA TS2 CABINET TYPE 6 WITH A TS 2 TYPE I CONTROLLER. THE CONTROLLER ASSEMBLY SHALL HAVE ALL NECESSARY HARDWARE TO COMMUNICATE WITH ORANGE COUNTY TRAFFIC ENGINEERING SIGNAL SYSTEM. THE UPS CABINET AND EQUIPMENT SHALL BE COMPATIBLE WITH ORANGE COUNTY'S SYSTEM.
2. CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR OPENS AWAY FROM THE INTERSECTION.

MAST ARMS:

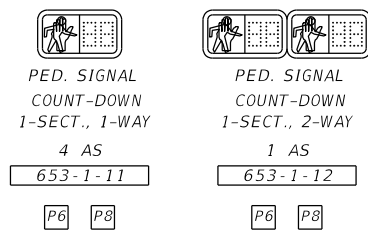
1. STRUCTURES CONTACTS:
DISTRICT FIVE STRUCTURES MAINTENANCE OFFICE - (386) 740-3463

REVISIONS				SUSANNE S. HERTZ, P.E. PE No. 49486 Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

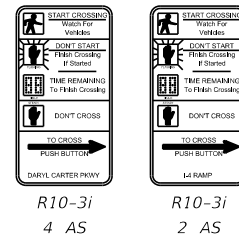
I-4 WESTBOUND RAMP



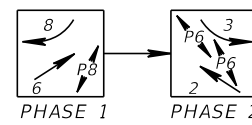
WEST SIGNAL PEDESTRIAN DETAIL



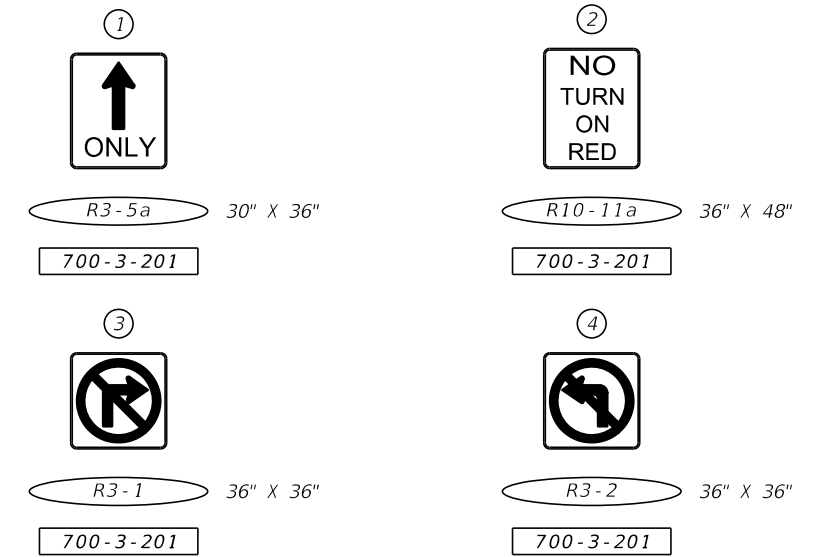
WEST SIGNAL PEDESTRIAN SIGN DETAIL



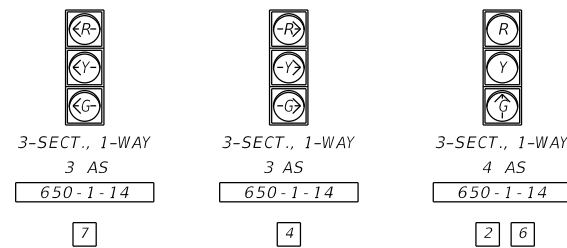
WEST SIGNAL MOVEMENT CHART



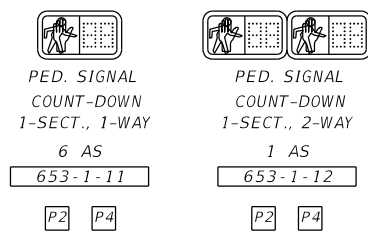
SIGN LEGEND



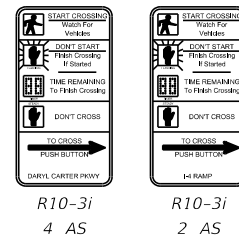
I-4 EASTBOUND RAMP



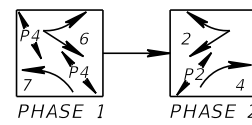
EAST SIGNAL PEDESTRIAN DETAIL



EAST SIGNAL PEDESTRIAN SIGN DETAIL

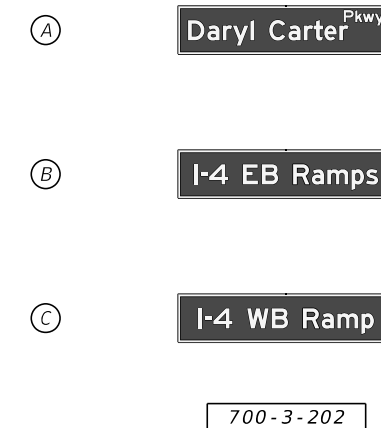


EAST SIGNAL MOVEMENT CHART



STREET NAME SIGN ASSEMBLIES SHALL BE INTERNALLY ILLUMINATED
SIGN ASSEMBLIES SHALL BE DOUBLE-PANEL, TWO-WAYS.

FOR DETAILS SEE GUIDE SIGN WORKSHEET

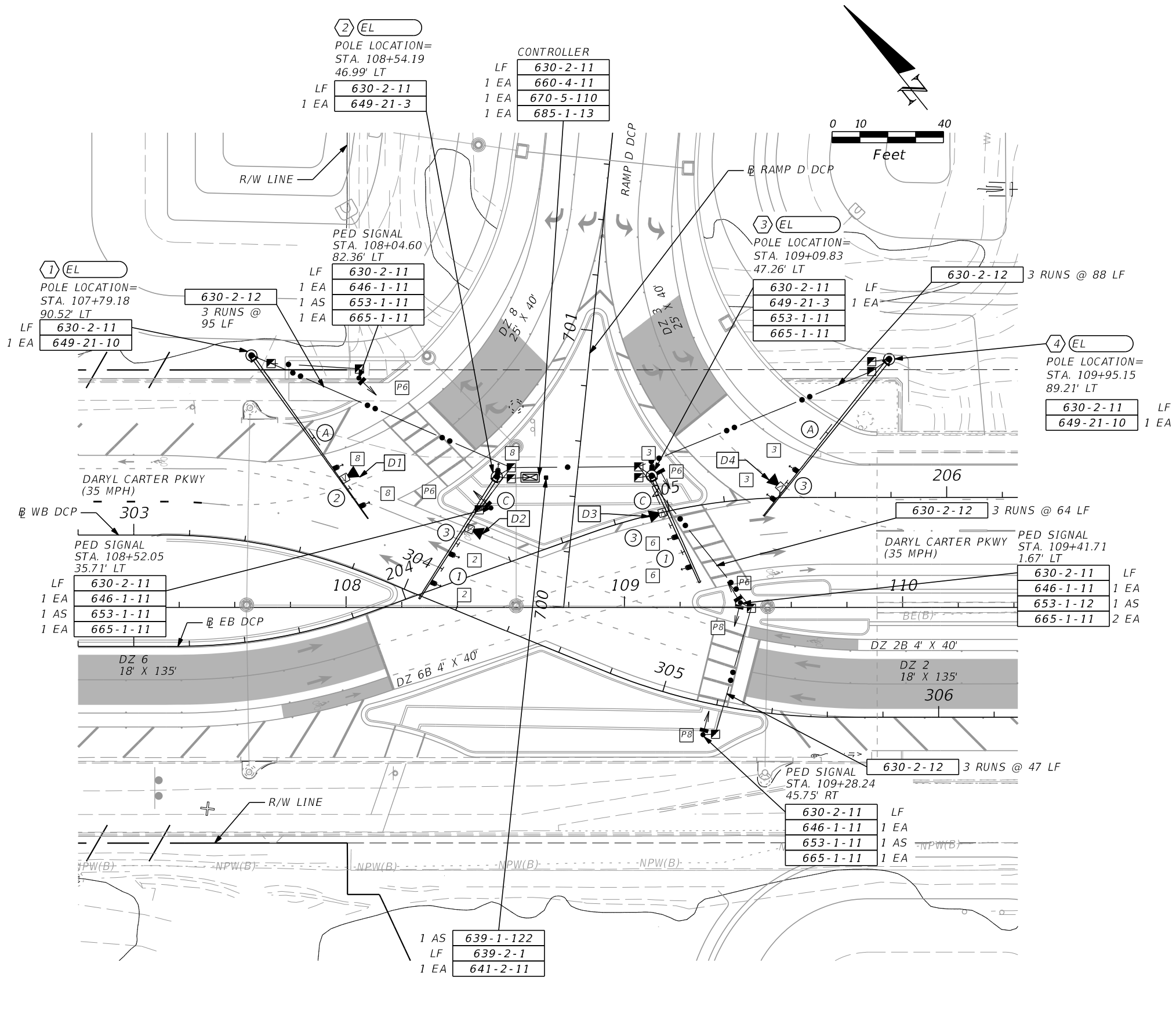


CONTROLLER OPERATIONS

1. THE MAJOR STREET IS DARYL CARTER PKWY, AND THE MINOR STREETS ARE THE SR 400 (I-4) RAMPS.
2. DURING FLASHING OPERATION, ALL MOVEMENTS SHALL FLASH RED.
3. POWER SERVICE METER BASE AND DISCONNECT SHALL BE INSTALLED ON THE CONCRETE SERVICE POLE AS SHOWN ON THE PLANS AND PER INDEX NUMBERS 17504 AND 17736.
4. CONTROLLER CABINETS SHALL BE WIRED AND OPERATED WITH SPECIAL S.O.P. AS SHOWN.

REVISIONS				SUSANNE S. HERTZ, P.E. PE No. 49486 Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SIGNAL DETAILS T-6
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			SR 400		ORANGE	441113-1-52-01		

PRELIMINARY: NOT FOR CONSTRUCTION



- SIGNAL CABLE
- 632-7-1 1 PI
 - 635-2-11 11 EA
 - 660-4-12 4 EA

TIMING FUNCTION		
VIDEO DETECTOR	DETECTION ZONE	DELAY TIME (SEC)
D1	DZ 8	-
D2	DZ 2	-
	DZ 2B	-
D3	DZ 6	-
	DZ 6B	-
D4	DZ 3	-

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

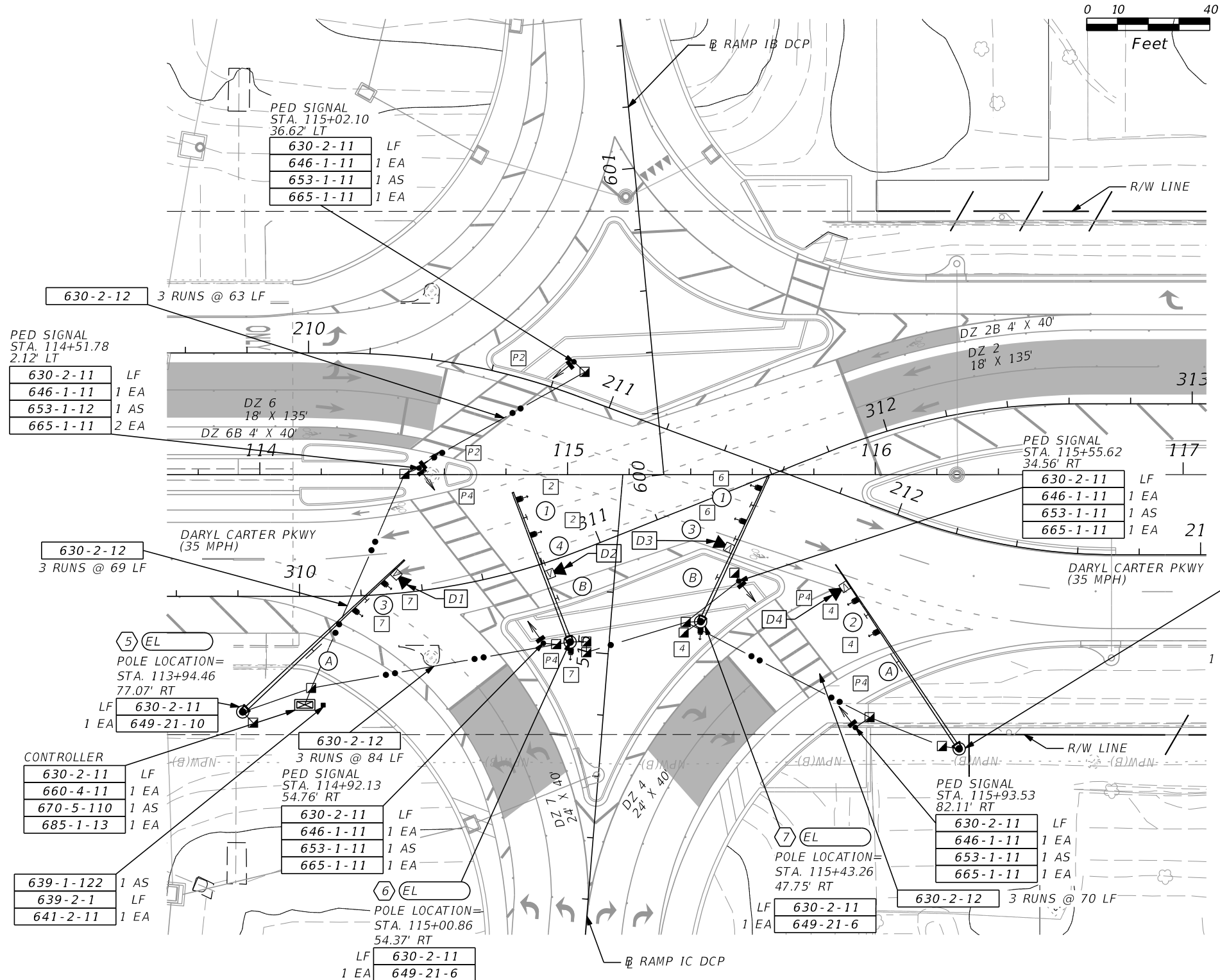
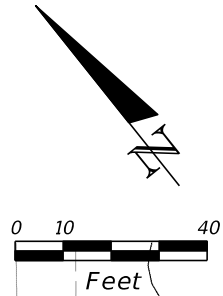
SUSANNE S. HERTZ, P.E. PE No. 49486
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SIGNALIZATION PLAN
DARYL CARTER PKWY @ I-4 WB RAMP

SHEET NO.
 T-7

PRELIMINARY: NOT FOR CONSTRUCTION



- SIGNAL CABLE
- 632-7-1 1 PI
 - 635-2-11 1 PI
 - 660-4-12 4 EA

TIMING FUNCTION		
VIDEO DETECTOR	DETECTION ZONE	DELAY TIME (SEC)
D1	DZ 7	-
D2	DZ 2	-
	DZ 2B	-
D3	DZ 6	-
	DZ 6B	-
D4	DZ 4	-

- CONTROLLER
- 630-2-11 LF
 - 660-4-11 1 EA
 - 670-5-110 1 AS
 - 685-1-13 1 EA
- 639-1-122 1 AS
- 639-2-1 LF
- 641-2-11 1 EA

- 630-2-11 LF
- 646-1-11 1 EA
- 653-1-11 1 AS
- 665-1-11 1 EA

- 630-2-11 LF
- 649-21-6 1 EA

- 630-2-11 LF
- 646-1-11 1 EA
- 653-1-11 1 AS
- 665-1-11 1 EA

- 630-2-11 LF
- 649-21-6 1 EA

- POLE LOCATION = STA. 116+27.24 89.06' RT
- 630-2-11 LF
 - 649-21-15 1 EA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

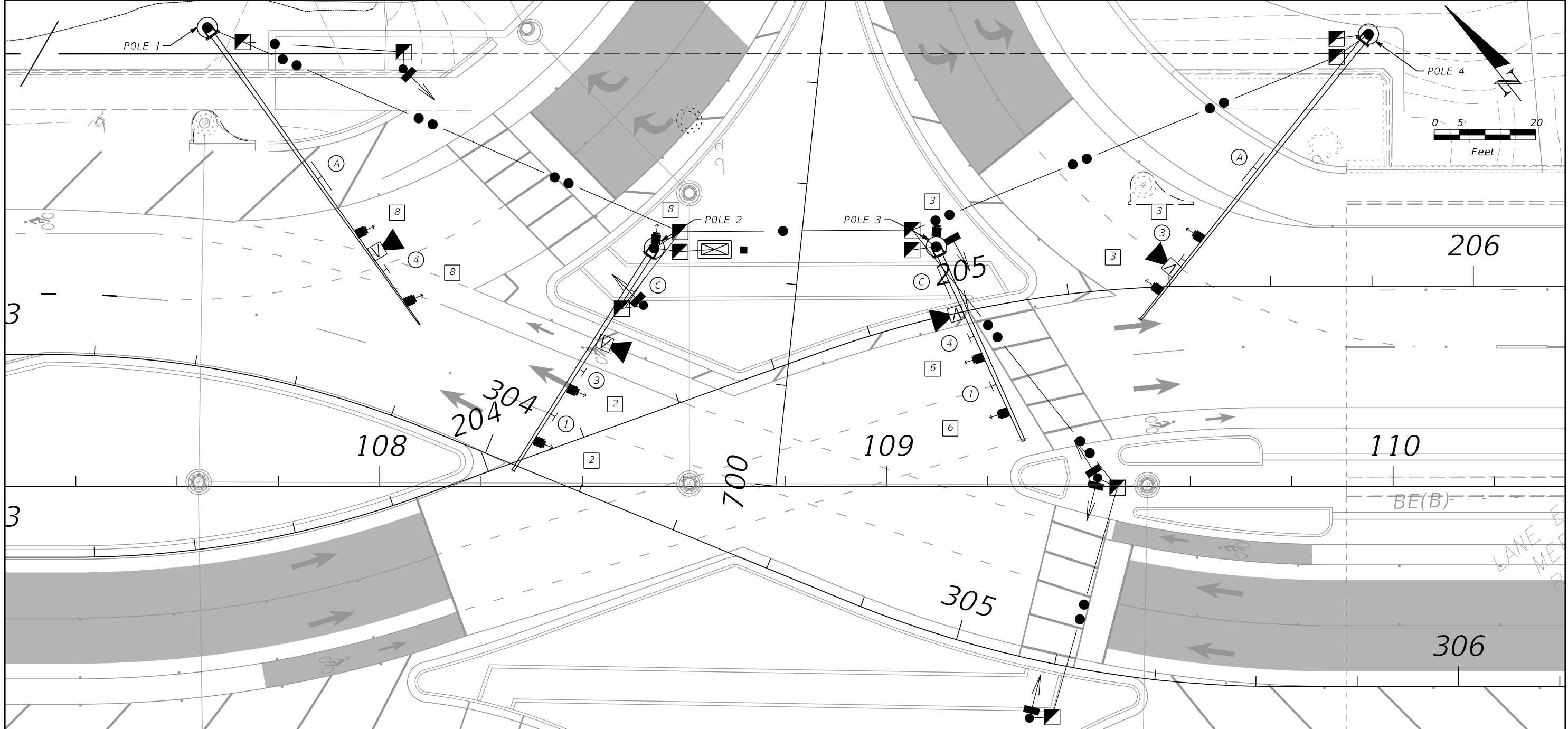
SUSANNE S. HERTZ, P.E. PE No. 49486
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 80 Spring Vista Drive Phone: 386.753.0558
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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SR 400	ORANGE	441113-1-52-01

SIGNALIZATION PLAN
DARYL CARTER PKWY @ I-4 EB RAMPS

SHEET NO.
 T-8

PRELIMINARY: NOT FOR CONSTRUCTION



PRELIMINARY: NOT FOR CONSTRUCTION

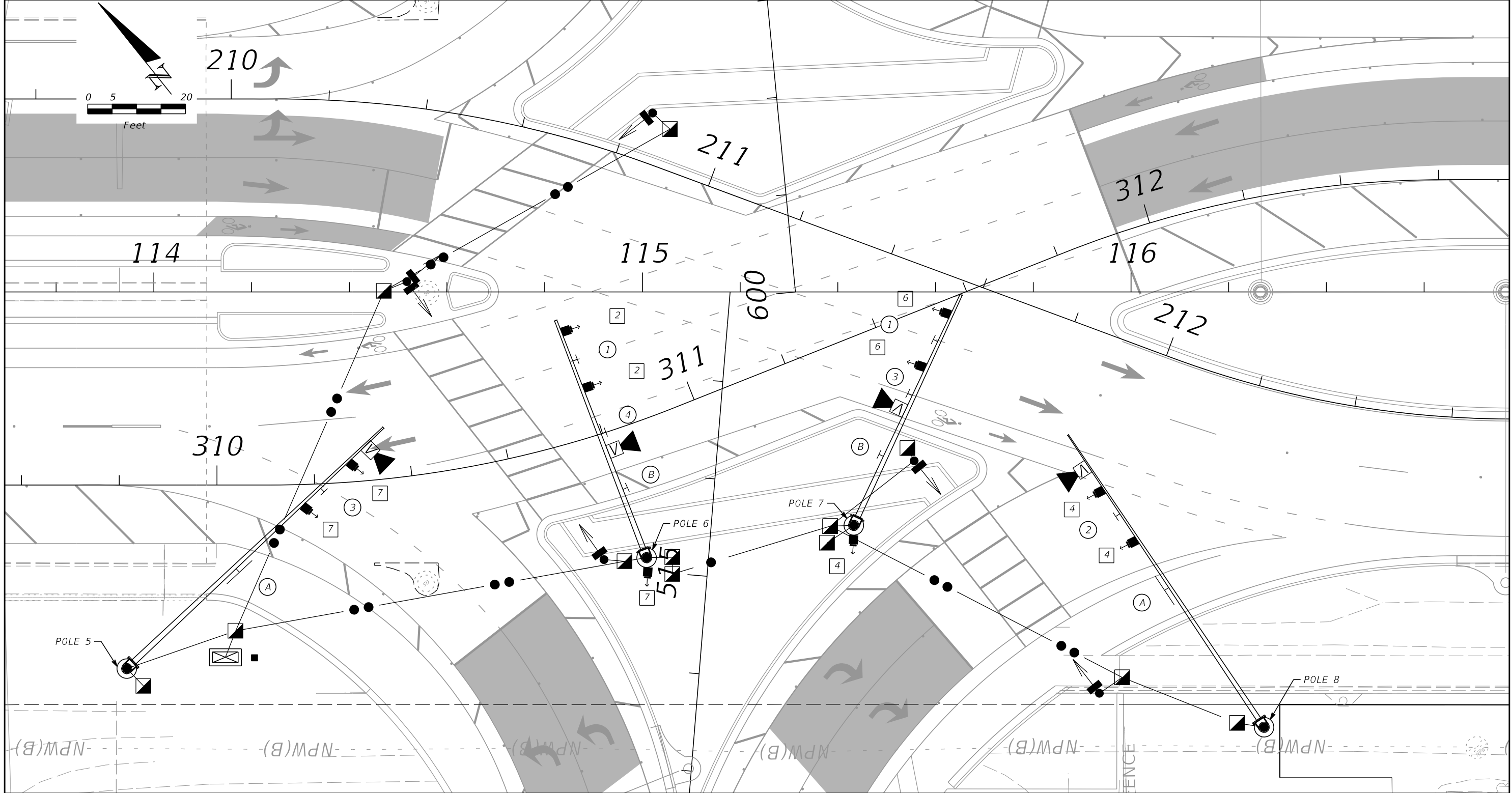
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SUSANNE S. HERTZ, P.E. PE No. 49486
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

QUADRANT DETAILS
DARYL CARTER PKWY @ I-4 WB RAMP

SHEET NO.
T-9



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SUSANNE S. HERTZ, P.E. PE No. 49486
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

QUADRANT DETAILS
DARYL CARTER PKWY @ I-4 EB RAMP

SHEET NO.
T-10

PRELIMINARY: NOT FOR CONSTRUCTION

