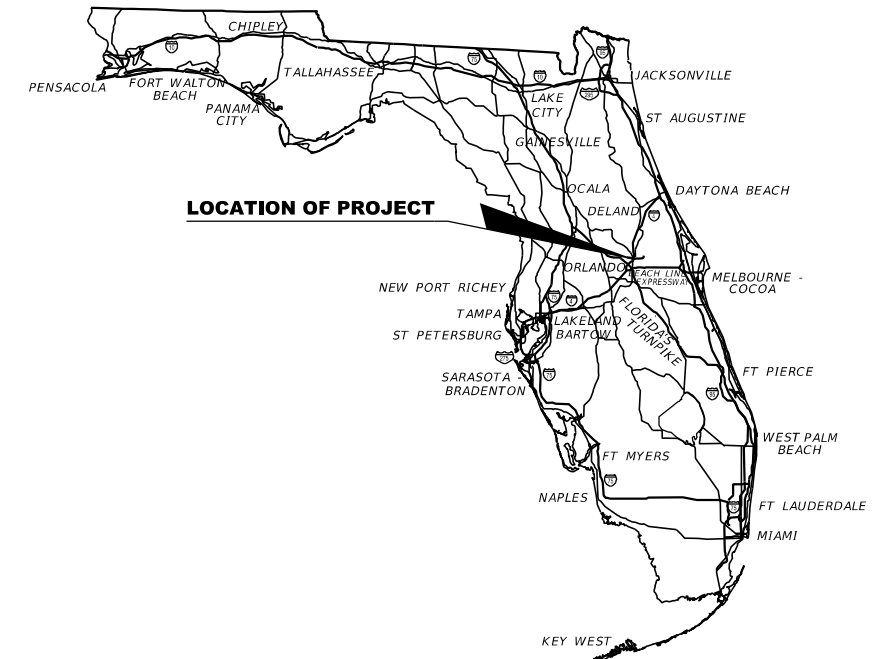


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

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



INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3 - L-4	TABULATION OF QUANTITIES
L-5	GENERAL NOTES
L-6	LEGEND
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L-12 - L-24	SR 400 (I-4) - PLAN 1 - 13
L-25 - L-26	DARYL CARTER PWKY - PLAN 1 & 2
L-27	UNDERDECK LIGHTING PLAN (1)
L-28	SERVICE POINT DETAILS
L-29	PANELBOARD SCHEDULE

**90% (PHASE III)
AUGUST 2019**

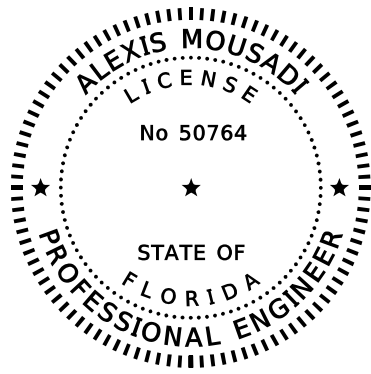
**LIGHTING PLANS
ENGINEER OF RECORD:**

ALEX MOUSADI, P.E.
P.E. NO.: 50764
AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL. 32801
T 407.843.6552 F 407.839.1789
Certificate of Authorization No. 8115

FDOT PROJECT MANAGER:

Su Hao, PE

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



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE
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ON ANY ELECTRONIC COPIES.

AECOM Technical Services, Inc.
150 NORTH ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION: 8115
ALEXIS MOUSADI, P.E. NO. 50764

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

LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
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REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-2
					SR 400	ORANGE	441113-1-52-01		

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET	
			L-12		L-13		L-14		L-15		L-16		L-17		L-18		L-19		L-20		L-21		PLAN	FINAL	PLAN	FINAL		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF					620		625							815		475		1936		4400			8871			
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF					190		190							497		305		240		65			1487			
630-2-16	CONDUIT (F&I) (EMBEDDED-RAILINGS)	LF																2325		4185					6510			
630-2-65	CONDUIT (REMOVE) (BRIDGE MOUNT)	LF																							0			
635-2-11	PULL BOX (F&I) (13X24)	EA					7		4							8		5		15		27			66			
635-3-13	JUNCTION BOX (F&I), EMBEDDED	EA																7		11					18			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS																							0			
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF																		300					300			
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF																							0			
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 to NO. 6	LF					2751		2718							4476		5019		12282		8256			35502			
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 to NO. 2	LF																				5604			5604			
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF					805		739							1296		635		1385		2694			7554			
715-4-13	LIGHT POLE COMPLETE (F&I) (STD POLE, STD FOUNDATION), 40' MH	EA					3		7							5		3		11		27			60			
715-4-14	LIGHT POLE COMPLETE (F&I) (STD POLE, STD FOUNDATION), 45' MH	EA														1									1			
715-4-70	LIGHT POLE COMPLETE (REMOVE)	EA					3		5							5		1		5		10			32			*
715-7-41	LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA																							0			
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA																							0			
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA																							0			
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA																							0			
715-11-211	LUMINAIRE, F&I-REPLACE EXIST LUMINAIRE ON EXIST POLE/ARM, ROADWAY, COBRA HEAD	EA					1																		1			
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA					3		7							6		3		11		27			61			
715-500-3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNTED	EA					1									2		6		9					18			
715-511-120	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, AL, 20' MH	EA														2									2			
715-513-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, AL, 40' MH	EA																6		5					11			
715-515-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT, AL, 40' MH	EA																		4					4			

PAY ITEM NOTES:

- 715-1-60 INCLUDES ALL CABLES INSIDE EXISTING CONDUIT (BUNDLED NOT PER CABLE), SLACK INSIDE EXISTING PULL BOXES AND CABLE RUN FROM EXISTING PULL BOX TO LIGHT POLE BASE.
- 715-7-41 SHALL NOT BE REMOVED UNTIL NEW LOAD CENTER TO INSTALLED CONNECTED AND OPERATIONAL.
- 715-11-211 ITEM SHALL INCLUDE NEW POLE CABLE DISTRIBUTION SYSTEM AND INTERNAL VIBRATION DAMPING DEVICE.

<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					ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>SR 400</td> <td>ORANGE</td> <td>441113-1-52-01</td> </tr> </tbody> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	ORANGE	441113-1-52-01	TABULATION OF QUANTITIES				SHEET NO. L-3
REVISIONS																																			
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PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET	
			L-22		L-23		L-24		L-25		L-26		L-27										PLAN	FINAL	PLAN	FINAL		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF	3747		1464				365	3747	150														5726		14597	
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF	350		190				764																1304		2791	
630-2-16	CONDUIT (F&I) (EMBEDDED-RAILINGS)	LF							3762		2730														6492		13002	
630-2-65	CONDUIT (REMOVE) (BRIDGE MOUNT)	LF							816		191		165												1172		1172	
635-2-11	PULL BOX (F&I) (13X24)	EA	23		12				4																39		105	
635-3-13	JUNCTION BOX (F&I), EMBEDDED	EA							4		7														11		29	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS							1																1		1	
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF							39																39		339	
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF											495												495		495	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 to NO. 6	LF	4677		2856				3600		690														11823		47325	
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 to NO. 2	LF	8985		2904																				11889		17493	
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	3372		1639				800																5811		13365	
715-4-13	LIGHT POLE COMPLETE (F&I) (STD POLE, STD FOUNDATION), 40' MH	EA	23		11				4																38		98	
715-4-14	LIGHT POLE COMPLETE (F&I) (STD POLE, STD FOUNDATION), 45' MH	EA																							0		1	
715-4-70	LIGHT POLE COMPLETE (REMOVE)	EA	19		8				3																30		62	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA							1																1		1	
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA			1		1																		2		2	
715-7-41	LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA							1																1		1	
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA											6												6		6	
715-11-211	LUMINAIRE, F&I-REPLACE EXIST LUMINAIRE ON EXIST POLE/ARM, ROADWAY, COBRA HEAD	EA																							0		1	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	23		11				4																38		99	
715-500-3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNTED	EA							3		7														10		28	
715-511-120	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, AL, 20' MH	EA																							0		2	
715-513-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, AL, 40' MH	EA							3		7														10		21	
715-515-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT, AL, 40' MH	EA																							0		4	

PAY ITEM NOTES:

- 715-1-60 INCLUDES ALL CABLES INSIDE EXISTING CONDUIT (BUNDLED NOT PER CABLE), SLACK INSIDE EXISTING PULL BOXES AND CABLE RUN FROM EXISTING PULL BOX TO LIGHT POLE BASE.
- 715-7-41 SHALL NOT BE REMOVED UNTIL NEW LOAD CENTER TO INSTALLED CONNECTED AND OPERATIONAL.
- 715-11-211 ITEM SHALL INCLUDE NEW POLE CABLE DISTRIBUTION SYSTEM AND INTERNAL VIBRATION DAMPING DEVICE.

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DATE	DESCRIPTION	DATE	DESCRIPTION																									
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																										
SR 400	ORANGE	441113-1-52-01																										

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GENERAL NOTES

1. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. BEFORE EXCAVATING NOTIFY THE UTILITY COMPANY OWNER(S) AND REQUEST THEM TO LOCATE AND STAKE THEIR UNDERGROUND FACILITIES. UTILITIES ARE TO BE ADJUSTED BY OTHERS AS DIRECTED BY THE ENGINEER. HAND DIG FIRST 4' AT EACH LIGHT POLE FOUNDATION LOCATION TO VERIFY NO UTILITY CONFLICTS.
2. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE CONTRACTOR TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
3. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS. NO ROADWAY LIGHTING FACILITIES SHALL BE PLACED WITHIN THE OSHA CLEAR ZONE AREAS FOR OVERHEAD ELECTRIC LINES.
4. NOTIFY POWER COMPANY AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. POWER COMPANY, AT THEIR OPTION, SHALL ASSIST ROADWAY CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY.
5. VERIFY POLE LENGTHS REQUIRED PER THE ROADWAY CROSS SECTIONS AND OFFSETS IN ORDER TO ACHIEVE THE PROPER MOUNTING HEIGHT FOR EACH LUMINAIRE. THIS VERIFICATION SHALL OCCUR PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. MOUNTING HEIGHTS ARE DETERMINED FROM THE BOTTOM OF THE LUMINAIRE HOUSING VERTICALLY TO PAVEMENT GRADE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL EXISTING LIGHTING SYSTEMS TO BE REMOVED INCLUDING CONDUITS, CONDUCTORS AND LIGHTING STANDARDS.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	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

LEGEND

SYMBOLS	DESCRIPTION
	SINGLE ARM/DOUBLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-80BLEDE15-480-R4, 480 VOLT OPERATION, 388 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	REPLACE EXISTING LUMINAIRE WITH NEW LED DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-80BLEDE15-480-R4, 480 VOLT OPERATION, 388 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE13-480-R3, 480 VOLT OPERATION, 254 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-80BLEDE15-480-R4, 480 VOLT OPERATION, 388 WATT, MOUNTING HEIGHT 45', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, BRIDGE MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE13-480-R3, 480 VOLT OPERATION, 254 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH INTERNAL VIBRATION DAMPERS, PULL BOX, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX. REFER TO POLE DATA TABLE FOR MORE INFORMATION.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB0-20BLED10-480-R4 480 VOLT OPERATION, 72 WATT, MOUNTING HEIGHT 20', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE, CONCRETE FOUNDATION, PULL BOX, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX. REFER TO POLE DATA TABLE FOR MORE INFORMATION.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, WALL MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE13-480-R3, 480 VOLT OPERATION, 254 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH INTERNAL VIBRATION DAMPERS, PULL BOX, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, MAST ARM MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLED13-480-R3, 120 VOLT OPERATION, 254 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY), PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX. REFER TO SIGNAL PLANS FOR PAYMENT.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, WALL MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-80BLEDE15-480-R4, 480 VOLT OPERATION, 388 WATT, MOUNTING HEIGHT 45', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH INTERNAL VIBRATION DAMPERS, PULL BOX, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX. POLES TO BE F&I BY DUKE ENERGY.
	EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN.
	EXISTING LIGHT POLE AND LUMINAIRE TO BE REMOVED.
	EXISTING ROADWAY LIGHTING LOAD CENTER TO REMAIN UNLESS OTHERWISE NOTED.
	EXISTING PIER CAP UNDERDECK LUMINAIRE TO REMAIN UNLESS OTHERWISE NOTED.

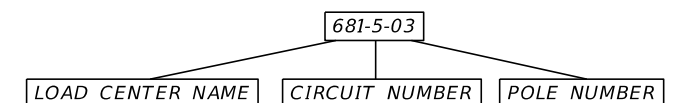
LEGEND

SYMBOLS	DESCRIPTION
-----oo-----	EXISTING EMBEDDED CONDUIT TO REMAIN UNLESS OTHERWISE NOTED.
...-BE(B)-...	EXISTING UNDERGROUND LIGHTING CONDUIT AND CONDUCTORS TO REMAIN UNLESS OTHERWISE NOTED.
— ● —	2" SCHEDULE 40 PVC CONDUIT, UNLESS OTHERWISE NOTED ON PLANS, DIRECT BURIED, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER, GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT WITH OTHER CONDUCTORS.
— ●● —	THREE (3) 2" SCHEDULE 80 PVC CONDUIT, EMBEDDED IN WALL (TRAFFIC RAILING BARRIER), BRIDGE TRAFFIC RAILING BARRIER AND IN BRIDGE DECK, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT WITH OTHER CONDUCTORS.
— ●● —	TWO (2) 2" SCHEDULE 40 PVC CONDUITS, ONE ACTIVE AND ONE SPARE, DIRECT BURIED UNDER EXISTING ROADWAY. EXTEND CONDUITS BEYOND EDGE OF PAVEMENT (BOTH SIDES) AND TERMINATE IN PULL BOXES. THE ACTIVE CONDUIT SHALL CONTAIN CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE ACTIVE CONDUIT WITH OTHER CONDUCTORS.
— ● —	RIGID GALVANIZED STEEL (RGS) CONDUIT 1" OR SIZE AS SPECIFIED IN THE PLANS, EXPOSED SURFACE MOUNT CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STANDARD COPPER. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT W/ OTHER CONDUCTORS.
	SERVICE POINT LOAD CENTER. SEE F.D.O.T. INDEX 17504. PROVIDE LOAD CENTER, CONCRETE PAD, SERVICE DROP/LATERAL, FUSED DISCONNECT SWITCH, GROUND ROD AND MISCELLANEOUS APPURTENANCES AS DETAILED ON LOAD CENTER DETAIL SHEETS. THE LOAD CENTER, CONCRETE PAD, SERVICE LATERAL CONDUIT AND CONDUCTORS, DISCONNECT SWITCH, ALL UTILITY COMPANY FEES AND MISCELLANEOUS APPURTENANCES ARE INCIDENTAL TO THE LOAD CENTER.
	PULL BOX WITH CONCRETE PAD AND A 5/8" X 20 FT. GROUND ROD. PROVIDE PULL BOXES WHERE SHOWN ON PLANS, AT BOTH ENDS OF CONDUIT AT ROADWAY CROSSINGS AND ELSEWHERE AS NECESSARY FOR THE COMPLETION OF THE PROJECT.
	JUNCTION BOX EMBEDDED IN WALL (TRAFFIC RAILING BARRIER) OR BRIDGE TRAFFIC RAILING BARRIER. BRIDGE MOUNTED EMBEDDED JUNCTION/PULLBOXES SHALL BE INCIDENTAL TO PAY ITEM 630-2-15, CONDUIT (BRIDGE MOUNT).
	JUNCTION BOX SURFACE MOUNTED ON BRIDGE STRUCTURE, TYPE RGS MATERIAL. SEE PLANS FOR SIZES AND LOCATION.
	PIER CAP MOUNTED UNDERDECK LUMINAIRE - LED WALL PACK, HOLOPHANE CATALOG NUMBER W4LED-30C-1000-40K-T3M-480, WIRED FOR 480V OPERATION, 104W, WALL MOUNT.
	EXISTING UTILITY TRANSFORMER TO REMAIN UNLESS OTHERWISE NOTED ON PLANS
	NEW UTILITY TRANSFORMER BY POWER COMPANY

CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Initial Intensity (Roadway)	1.5 H.F.C.
Uniformity Ratio Avg./Min.	4:1 OR LESS
Uniformity Ratio Max./Min.	10:1 OR LESS
Veiling Luminance Ratio	0.3:1 OR LESS
Wind Speed (Orange County)	140 MPH
Average Initial Intensity (Intersection)	3.0 H.F.C.
Average Initial Intensity (Intersection)	2.3 V.F.C.

POLE ID NAMING CONVENTION



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

LEGEND

SHEET NO.
L-6

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

POLE NO.	CIRCUIT	STATION	POLE SETBACK	ALIGNMENT	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	ARM LENGHT (FT)	TILT	PAY ITEM	NOTE
1	682-4-03	555+46	BRIDGE MOUNT	BL SURVEY SR 400 (I-4)	388	40	10	0	715-11-211	EXIST STA
2	682-4-04	557+81	110.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	EXIST STA
3	682-4-05	559+83	108.9	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	EXIST STA
4	682-4-06	561+90	106.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	EXIST STA
5	682-4-07	563+95	102.9	BL SURVEY SR 400 (I-4)	2-388	40	2-15	0	715-4-13	EXIST STA
6	682-1-04	565+93	120.2	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	EXIST STA
7	682-1-05	567+97	107.9	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	EXIST STA
8	682-1-06	569+69	109.0	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
9	682-1-07	571+59	109.6	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
10	682-1-08	573+49	109.5	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
11	682-1-09	575+38	110.1	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
12	682-1-10	577+27	110.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
13	682-1-11	579+17	110.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
14	682-1-12	581+07	113.9	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
15	682-1-13	582+60	109.4	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	NEW LOCATION
16	A2-4-2	620+85	106.0	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
16A	A2-4-3	621+84	109.9	BL SURVEY SR 400 (I-4)	72	40	15	0	715-511-120	
16B	A2-4-4	622+19	111.5	BL SURVEY SR 400 (I-4)	72	40	15	0	715-511-120	
17	A2-4-5	623+15	107.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
18	A2-4-6	625+00	106.6	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
19	A2-4-7	626+96	110.3	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
20	A2-4-8	628+88	121.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
21	B-3-9	632+47	100.1	BL SURVEY SR 400 (I-4)	2-388	40	2-15	0	715-4-13	(OLD POLE NO. 47-A4)
22	B-1-7	638+47	104.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
23	B-1-6	640+28	108.0	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
24	B-1-5	642+14	109.2	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
25	B-1-4	643+99	107.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
26	B-1-2	645+93	108.3	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
27	B-1-1	647+80	108.1	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
28	B-2-1	649+66	115.2	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
29	B-2-25	657+15	103.0	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
30	B-2-26	659+12	103.3	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
31	B-2-27	661+06	97.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
32	B-2-28	662+86	97.3	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
33	B-2-29	664+61	109.5	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
34	B-2-30	666+40	109.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
35	B-2-31	668+26	108.0	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
36	A-1-23	670+16	111.6	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
37	B2-2-20	670+16	108.6	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
38	A-1-22	672+06	113.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
39	B2-2-19	672+05	108.9	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
40	A-1-21	673+97	113.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
41	B2-2-18	673+96	106.5	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
42	A-1-20	675+86	113.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
43	B2-2-17	675+85	106.3	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
44	A-1-19	677+74	113.3	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
45	B2-2-16	677+74	107.1	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
46	A-1-18	679+63	113.5	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
47	B2-2-15	679+62	106.5	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	

POLE NO.	CIRCUIT	STATION	POLE SETBACK	ALIGNMENT	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	ARM LENGHT (FT)	TILT	PAY ITEM	NOTE
48	A-1-17	681+52	112.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
49	B2-2-14	681+52	106.8	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
50	A-1-16	683+41	112.7	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
51	B2-2-13	683+36	101.5	BL SURVEY SR 400 (I-4)	2-388	40	2-15	0	715-4-13	
52	A-1-15	685+01	112.5	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
53	B2-2-8	692+36	118.9	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
54	B2-2-7	694+36	108.9	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
55	B2-2-6	696+26	100.9	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
100	A2-4-9	501+30	11.9	BL RAMP IB_DCP	388	45	15	0	715-4-14	
101	A2-4-10	504+55	8.7	BL RAMP IB_DCP	254	40	12	0	715-513-140	
102	A2-4-11	505+85	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
103	A2-4-12	507+24	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
104	A2-4-13	508+64	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
105	A2-4-14	510+04	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
106	A2-4-15	511+38	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
107	A2-4-16	512+68	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
108	A2-4-17	514+20	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
109	A2-4-18	514+27	WALL MOUNT	BL RAMP IB_DCP	254	40	12	0	715-513-140	
200	B-4-22	601+17	WALL MOUNT	BL RAMP IC_DCP	254	40	12	0	715-513-140	
201	B-4-21	601+23	WALL MOUNT	BL RAMP IC_DCP	254	40	12	0	715-513-140	
202	B-4-20	602+57	WALL MOUNT	BL RAMP IC_DCP	254	40	12	0	715-513-140	
203	B-4-19	603+97	WALL MOUNT	BL RAMP IC_DCP	254	40	12	0	715-513-140	
204	B-4-18	605+37	BRIDGE MOUNT	BL RAMP IC_DCP	254	40	12	0	715-515-140	
205	B-4-16	606+77	BRIDGE MOUNT	BL RAMP IC_DCP	254	40	12	0	715-515-140	
206	B-4-13	608+17	BRIDGE MOUNT	BL RAMP IC_DCP	254	40	12	0	715-515-140	
207	B-4-12	609+57	BRIDGE MOUNT	BL RAMP IC_DCP	254	40	12	0	715-515-140	
208	B-4-11	610+9	WALL MOUNT	BL RAMP IC_DCP	254	40	12	0	715-513-140	
209	B-4-10	612+39	WALL MOUNT	BL RAMP IC_DCP	254	40	12	0	715-513-140	
210	B-4-9	613+78	WALL MOUNT	BL RAMP IC_DCP	254	40	12	0	715-513-140	
211	B-4-8	615+19	15.0	BL RAMP IC_DCP	254	40	12	0	715-4-13	
212	B-4-7	616+59	14.7	BL RAMP IC_DCP	254	40	12	0	715-4-13	
213	A-1-27	618+00	16.7	BL RAMP IC_DCP	388	40	15	0	715-4-13	
214	A-1-26	619+77	18.8	BL RAMP IC_DCP	388	40	15	0	715-4-13	
215	A-1-25	621+58	18.5	BL RAMP IC_DCP	388	40	15	0	715-4-13	
216	A-1-24	623+43	18.4	BL RAMP IC_DCP	388	40	15	0	715-4-13	
300	B-2-12	701+27	WALL MOUNT	BL RAMP D_DCP	254	40	12	0	715-513-140	
301	B-2-11	702+43	WALL MOUNT	BL RAMP D_DCP	254	40	12	0	715-513-140	
302	B-2-10	703+91	WALL MOUNT	BL RAMP D_DCP	254	40	12	0	715-513-140	
303	B-2-9	705+38	WALL MOUNT	BL RAMP D_DCP	254	40	12	0	715-513-140	
304	B-2-8	706+64	21.9	BL RAMP D_DCP	254	40	12	0	715-513-140	
305	B-2-7	708+10	24.5	BL RAMP D_DCP	254	40	12	0	715-513-140	
306	B-2-6	709+50	WALL MOUNT	BL RAMP D_DCP	254	40	12	0	715-513-140	
400	B-2-2	105+77	9.5	BL RAMP ISLIP1	388	40	15	0	715-4-13	
401	B-2-3	107+28	9.3	BL RAMP ISLIP1	388	40	15	0	715-4-13	
402	B-2-4	108+80	14.5	BL RAMP ISLIP1	388	40	15	0	715-4-13	
403	B-2-5	110+24	10.9	BL RAMP ISLIP1	2-388	40	2-15	0	715-4-13	

1. ALL POLES LOCATED ON SLOPES GREATER THAN 1:4 UP TO 1:2 HAVE BEEN FLAGGED ON THE POLE DATA SHEETS. FOUNDATIONS SHALL BE DESIGNED PER INDEX 17515. IF FIELD CONDITION CHANGES DURING CONSTRUCTION AFFECT A SIDE SLOPE, USE THE APPROPRIATE FOUNDATION FOR THE ACTUAL CONDITION.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

POLE DATA (1)

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

POLE NO.	CIRCUIT	STATION	POLE SETBACK	ALIGNMENT	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	ARM LENGHT (FT)	TILT	PAY ITEM	NOTE
404	B-2-13	111+82	48.9	BL RAMP ISLIP1	254	40	12	0	715-513-140	
405	B-2-14	113+26	39.0	BL RAMP ISLIP1	254	40	12	0	715-513-140	
500	B-2-15	7068+71	59.9	BL CONST IWBCD2	254	40	12	0	715-513-140	
501	B-2-16	7070+16	57.7	BL CONST IWBCD2	254	40	12	0	715-513-140	
502	B-2-17	7071+60	57.5	BL CONST IWBCD2	254	40	12	0	715-513-140	
503	B-2-18	7073+03	57.6	BL CONST IWBCD2	254	40	12	0	715-513-140	
504	B-2-19	7074+46	57.6	BL CONST IWBCD2	254	40	12	0	715-513-140	
505	B-2-20	7075+87	57.5	BL CONST IWBCD2	254	40	12	0	715-513-140	
506	B-2-21	7077+31	57.5	BL CONST IWBCD2	254	40	12	0	715-513-140	
507	B-2-22	7078+76	57.3	BL CONST IWBCD2	254	40	12	0	715-513-140	
508	B-2-23	7080+19	51.6	BL CONST IWBCD2	254	40	12	0	715-513-140	
509	B-2-24	7081+63	46.1	BL CONST IWBCD2	254	40	12	0	715-513-140	
510	B2-1-25	7083+08	45.4	BL CONST IWBCD2	254	40	12	0	715-513-140	
511	B2-1-24	7084+52	45.6	BL CONST IWBCD2	254	40	12	0	715-513-140	
512	B2-1-23	7085+96	45.3	BL CONST IWBCD2	254	40	12	0	715-513-140	
513	B2-1-22	7087+41	45.7	BL CONST IWBCD2	254	40	12	0	715-513-140	
514	B2-1-21	7088+85	45.4	BL CONST IWBCD2	254	40	12	0	715-513-140	
515	B2-1-20	7090+31	45.8	BL CONST IWBCD2	254	40	12	0	715-513-140	
516	B2-1-19	7091+75	45.3	BL CONST IWBCD2	254	40	12	0	715-513-140	
517	B2-1-18	7093+21	45.3	BL CONST IWBCD2	254	40	12	0	715-513-140	
518	B2-1-17	7094+60	45.5	BL CONST IWBCD2	254	40	12	0	715-513-140	
519	B2-1-16	7095+01	46.4	BL CONST IWBCD2	254	40	12	0	715-513-140	
600	B2-1-15	302+44	21.8	BL RAMP IA_CFP	254	40	12	0	715-4-13	
601	B2-1-14	303+85	21.7	BL RAMP IA_CFP	254	40	12	0	715-4-13	
602	B2-1-13	305+39	21.4	BL RAMP IA_CFP	254	40	12	0	715-4-13	
603	B2-1-12	306+68	21.3	BL RAMP IA_CFP	254	40	12	0	715-4-13	
604	B2-1-11	308+07	21.7	BL RAMP IA_CFP	254	40	12	0	715-4-13	
605	B2-1-10	309+46	21.6	BL RAMP IA_CFP	254	40	12	0	715-4-13	
700	B2-2-12	212+86	20.3	BL RAMP ISLIP2	388	40	15	0	715-4-13	
701	B2-2-11	214+75	19.6	BL RAMP ISLIP2	388	40	15	0	715-4-13	
702	B2-2-10	216+64	20.3	BL RAMP ISLIP2	388	40	15	0	715-4-13	
703	B2-2-9	218+54	14.7	BL RAMP ISLIP2	388	40	15	0	715-4-13	
800		201+35	WALL MOUNT	BL EB DCP	388	45	15	0	BY OTHERS	
801		301+31	WALL MOUNT	BL WB DCP	388	45	15	0	BY OTHERS	
802		203+41	WALL MOUNT	BL EB DCP	254	40	12	0	BY OTHERS	
*803		204+44	101.0	BL EB DCP	254	40	12	0	BY OTHERS	
*804		205+80	117.1	BL EB DCP	254	40	12	0	BY OTHERS	
805		307+82	BRIDGE MOUNT	BL WB DCP	254	40	12	0	BY OTHERS	
806		207+91	BRIDGE MOUNT	BL EB DCP	254	40	12	0	BY OTHERS	
807		209+93	WALL MOUNT	BL EB DCP	254	40	12	0	BY OTHERS	
808		212+46	WALL MOUNT	BL EB DCP	388	45	15	0	BY OTHERS	
809		312+44	WALL MOUNT	BL WB DCP	388	45	15	0	BY OTHERS	
810		214+53	WALL MOUNT	BL EB DCP	388	45	15	0	BY OTHERS	
811		314+53	WALL MOUNT	BL WB DCP	388	45	15	0	BY OTHERS	
812		215+97	52.9	BL EB DCP	388	45	15	0	BY OTHERS	
813		316+71	46.5	BL WB DCP	388	45	15	0	BY OTHERS	

LUMINAIRE NO.	CIRCUIT	STATION	OFFSET	ALIGNMENT	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	PAY ITEM	NOTE
UD1	B-4-17a	606+10	3.26	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD2	B-4-17b	606+10	50.86	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD3	B-4-15a	607+00	22.41	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD4	B-4-15b	607+00	30.91	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD5	B-4-14a	607+88	39.41	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD6	B-4-14b	607+88	19.01	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT

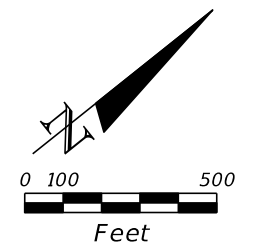
* = POLES 803 & 804 REQUIRE SPREAD FOOTER

- ALL POLES LOCATED ON SLOPES GREATER THAN 1:4 UP TO 1:2 HAVE BEEN FLAGGED ON THE POLE DATA SHEETS. FOUNDATIONS SHALL BE DESIGNED PER INDEX 17515. IF FIELD CONDITION CHANGES DURING CONSTRUCTION AFFECT A SIDE SLOPE, USE THE APPROPRIATE FOUNDATION FOR THE ACTUAL CONDITION.
- MOUNTING HEIGHT FOR UNDERDECK LUMINAIRE DEFINED AS CENTER OF PIER.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

POLE DATA (2)

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



BEGIN PROJECT 441113-1-52-01
 BEGIN CONSTRUCTION 441113-1-52-01
 @ SURVEY SR 400 (I-4) STA 546+00.00

@ SURVEY SR 400 (I-4)

STA 556+34.35 @ SURVEY SR 400 =
 STA 675+35.92 @ SURVEY SR 535

BEGIN LIGHTING LIMITS
 STA 555+66

BEGIN @ RAMP IC1_535 STA 900+00.00 =
 STA 667+97.61 @ SURVEY SR 535

END @ RAMP IC1_535 STA 918+10.33 =
 STA 568+72.58 @ SURVEY SR 400 (I-4)

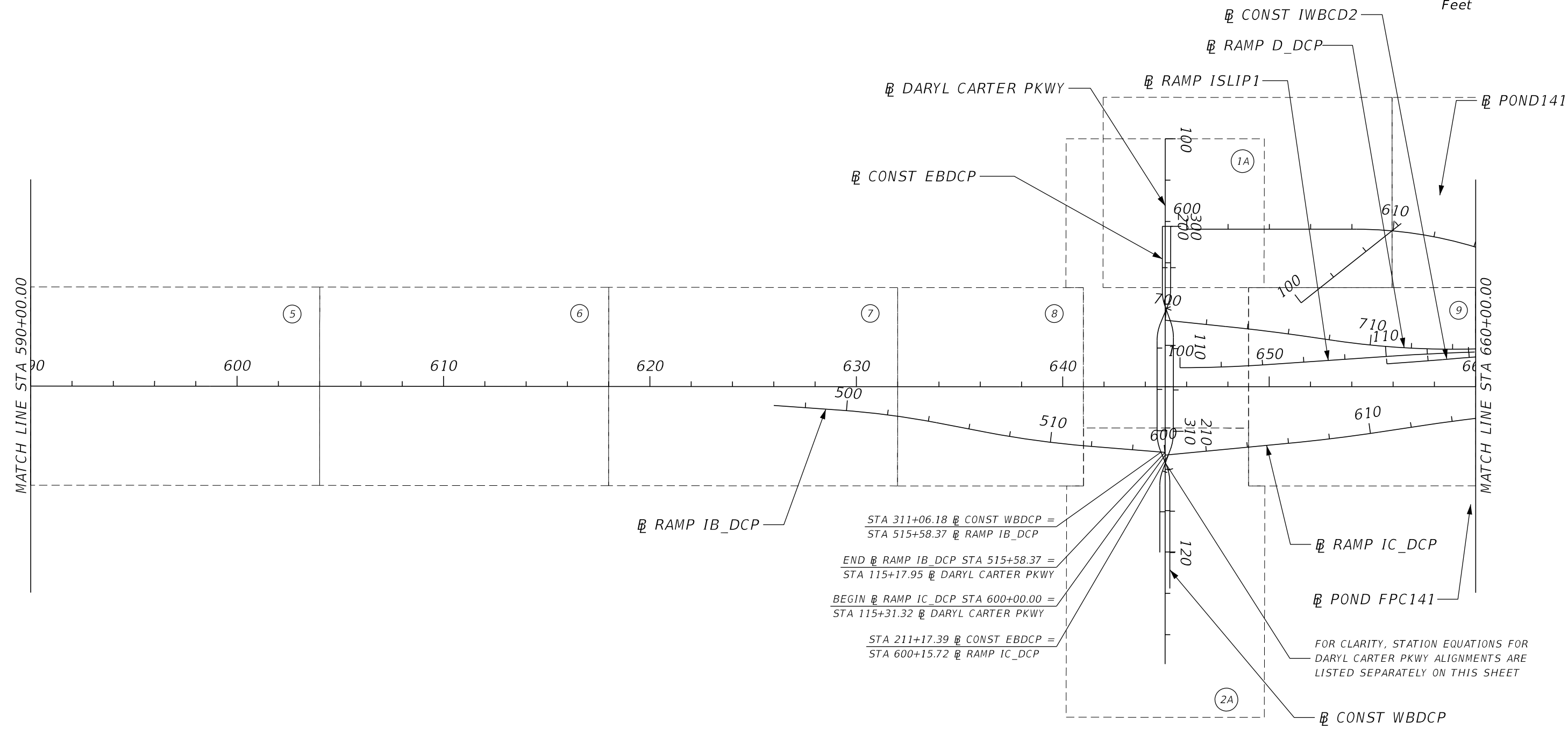
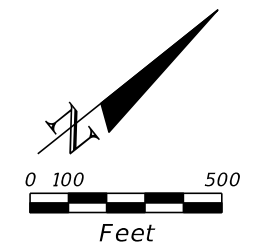
@ RAMP IC1_535

MATCH LINE STA 590+00.00

LEGEND
 PLAN SHEET NO. (X)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (1)	SHEET NO. L-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

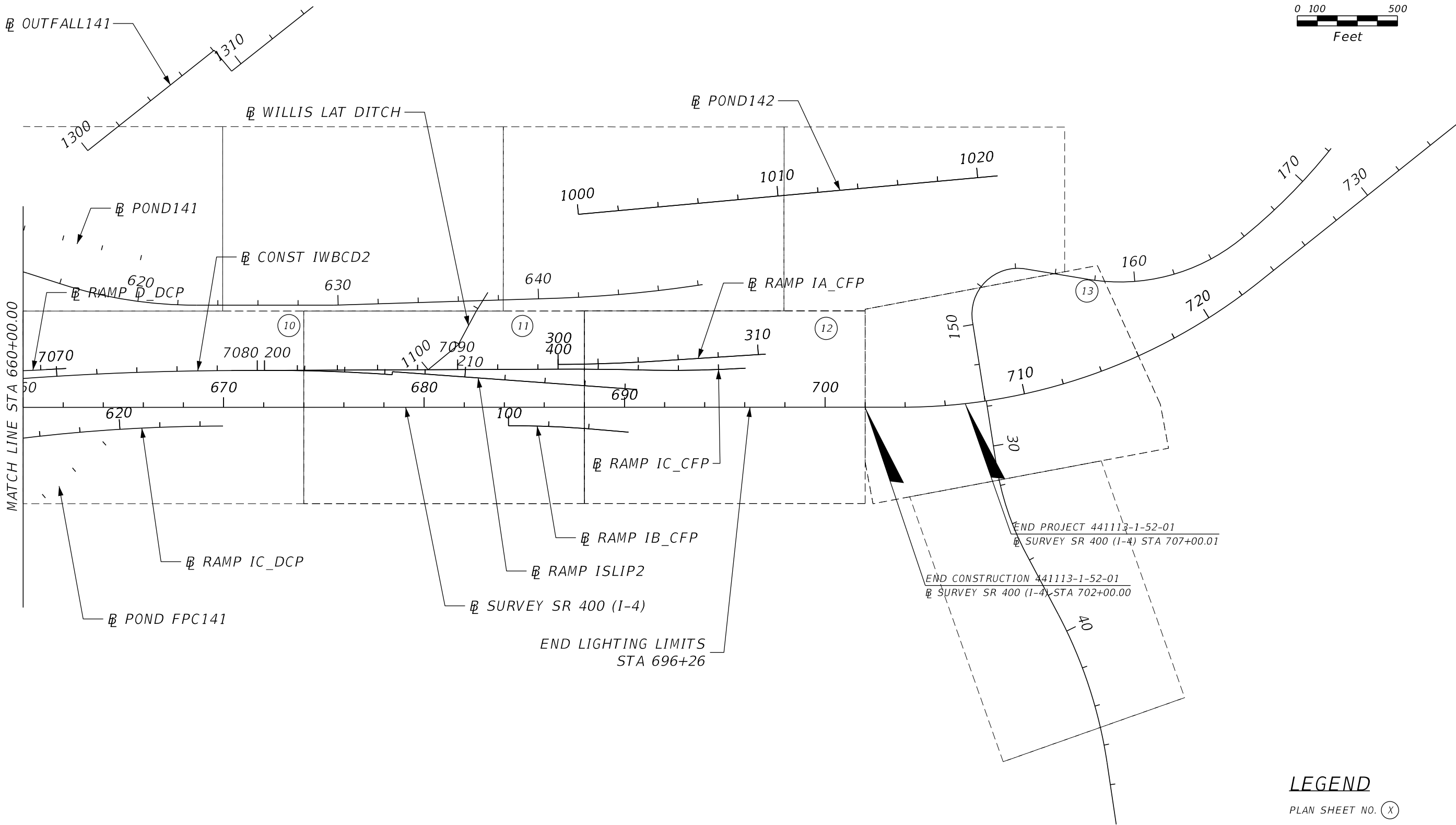
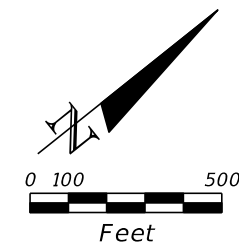
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND
PLAN SHEET NO. (X)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		L-10

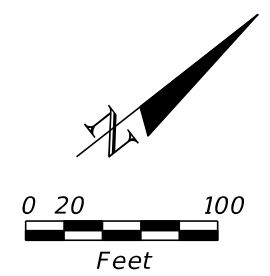
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



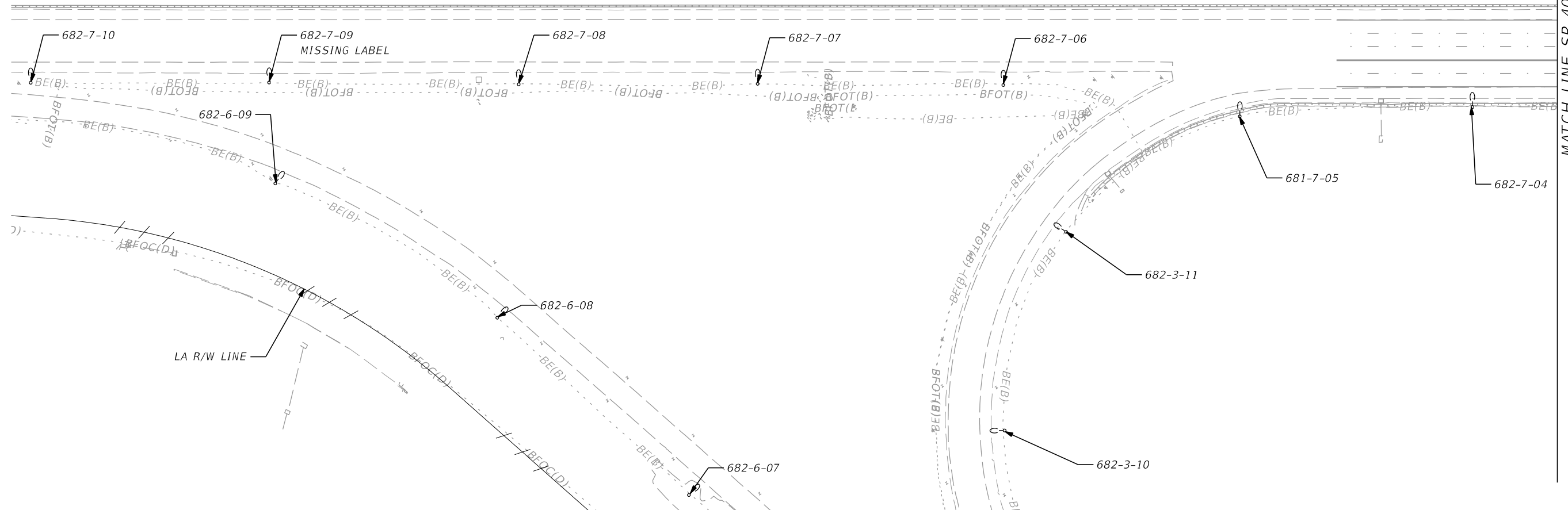
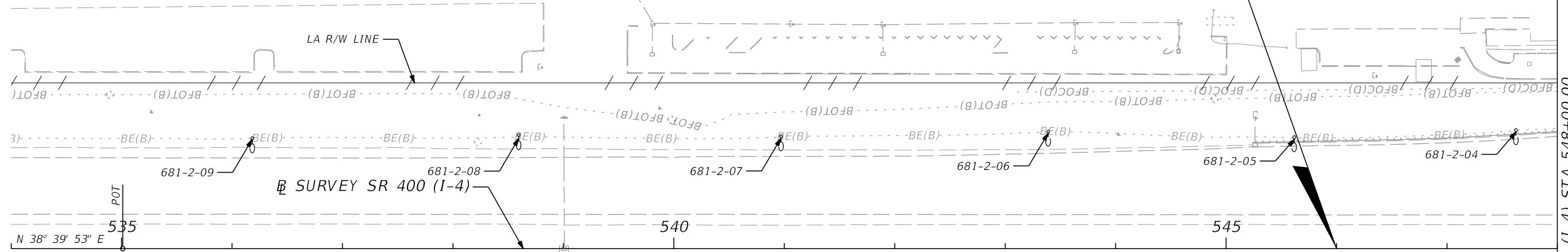
LEGEND
 PLAN SHEET NO. (X)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (3)	SHEET NO. L-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

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



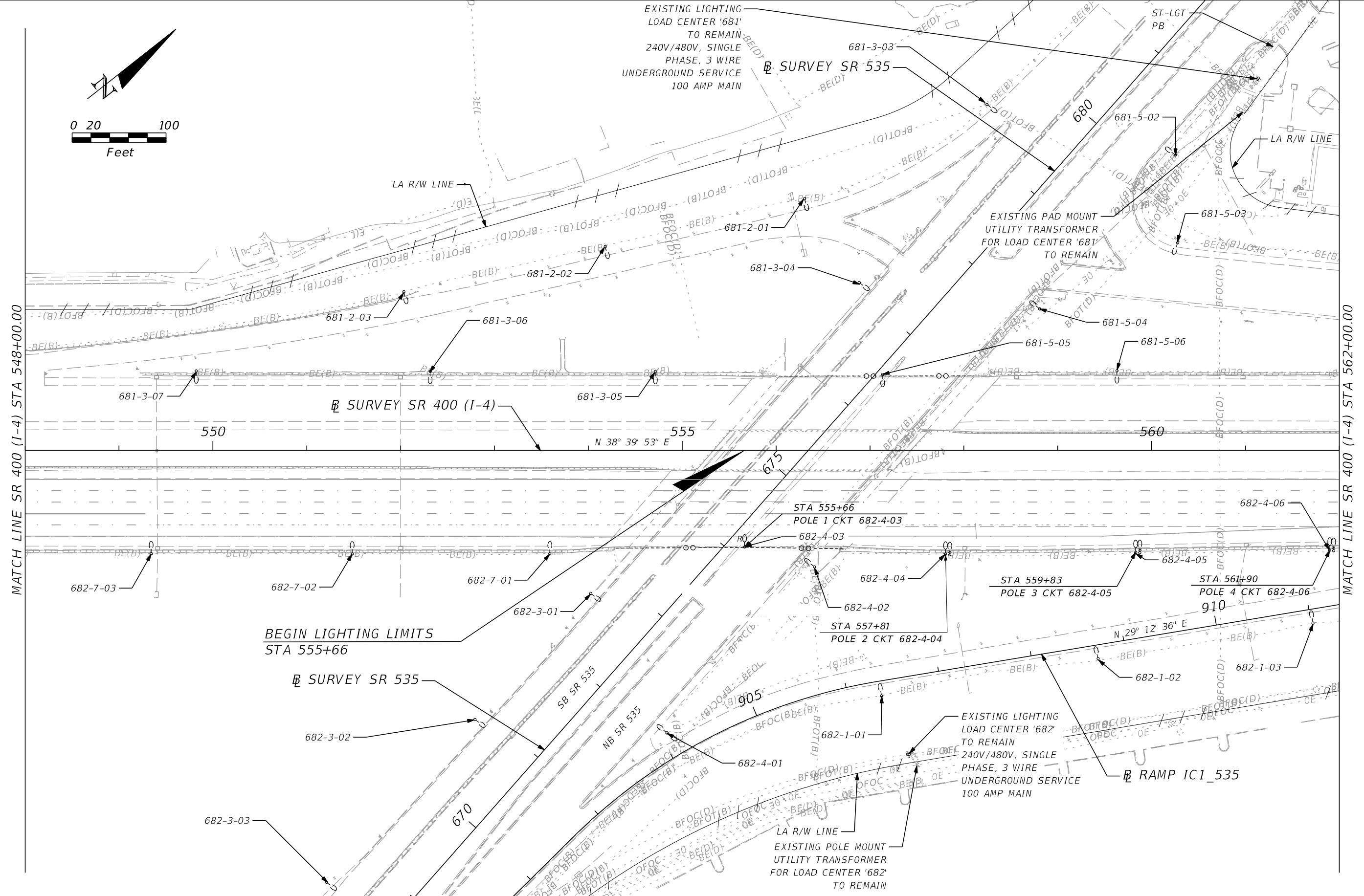
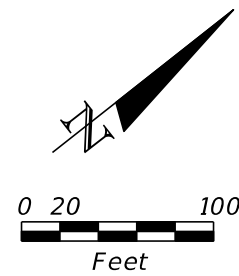
BEGIN PROJECT 441113-1-52-01
 BEGIN CONSTRUCTION 441113-1-52-01
 @ SURVEY SR 400 (I-4) STA 546+00.00



MATCH LINE SR 400 (I-4) STA 548+00.00

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 1	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		L-12

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

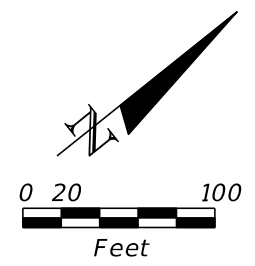
ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801
 CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 2

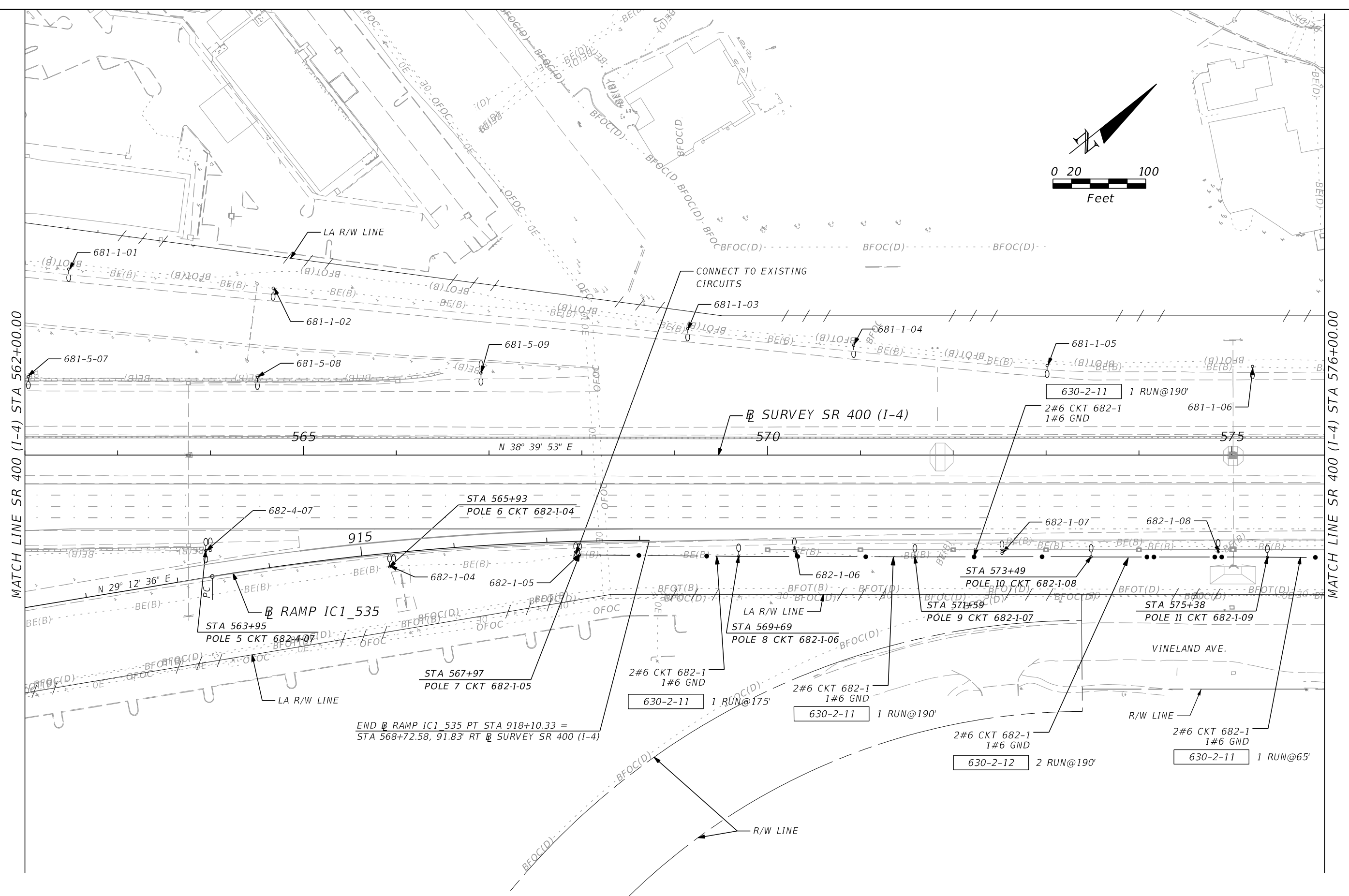
SHEET NO.
L-13

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



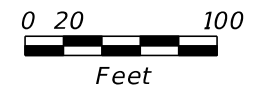
MATCH LINE SR 400 (I-4) STA 562+00.00

MATCH LINE SR 400 (I-4) STA 576+00.00



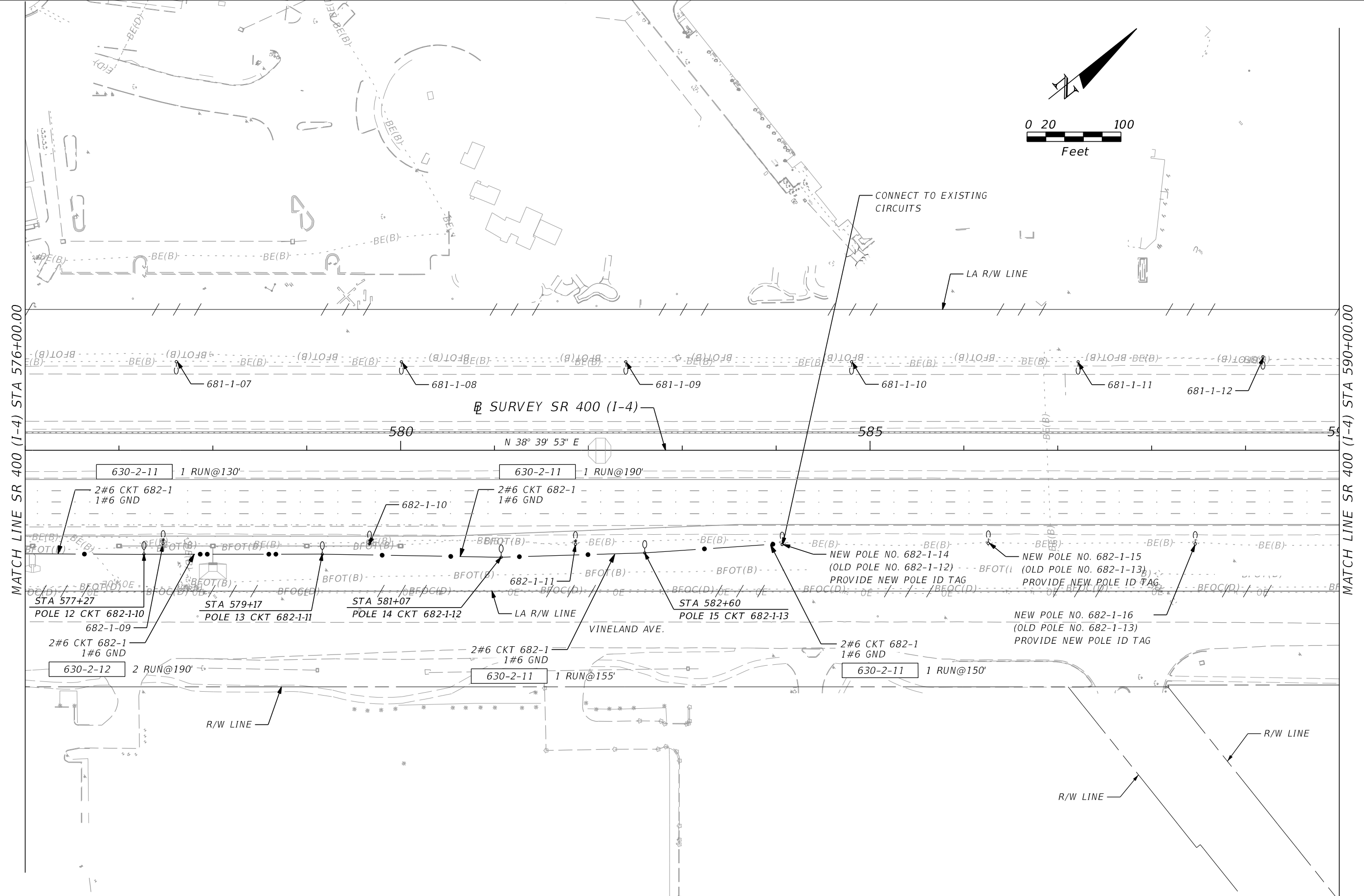
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 3	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		L-14

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



MATCH LINE SR 400 (I-4) STA 576+00.00

MATCH LINE SR 400 (I-4) STA 590+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

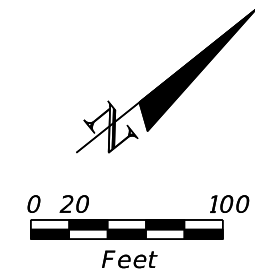
ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801
 CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 4

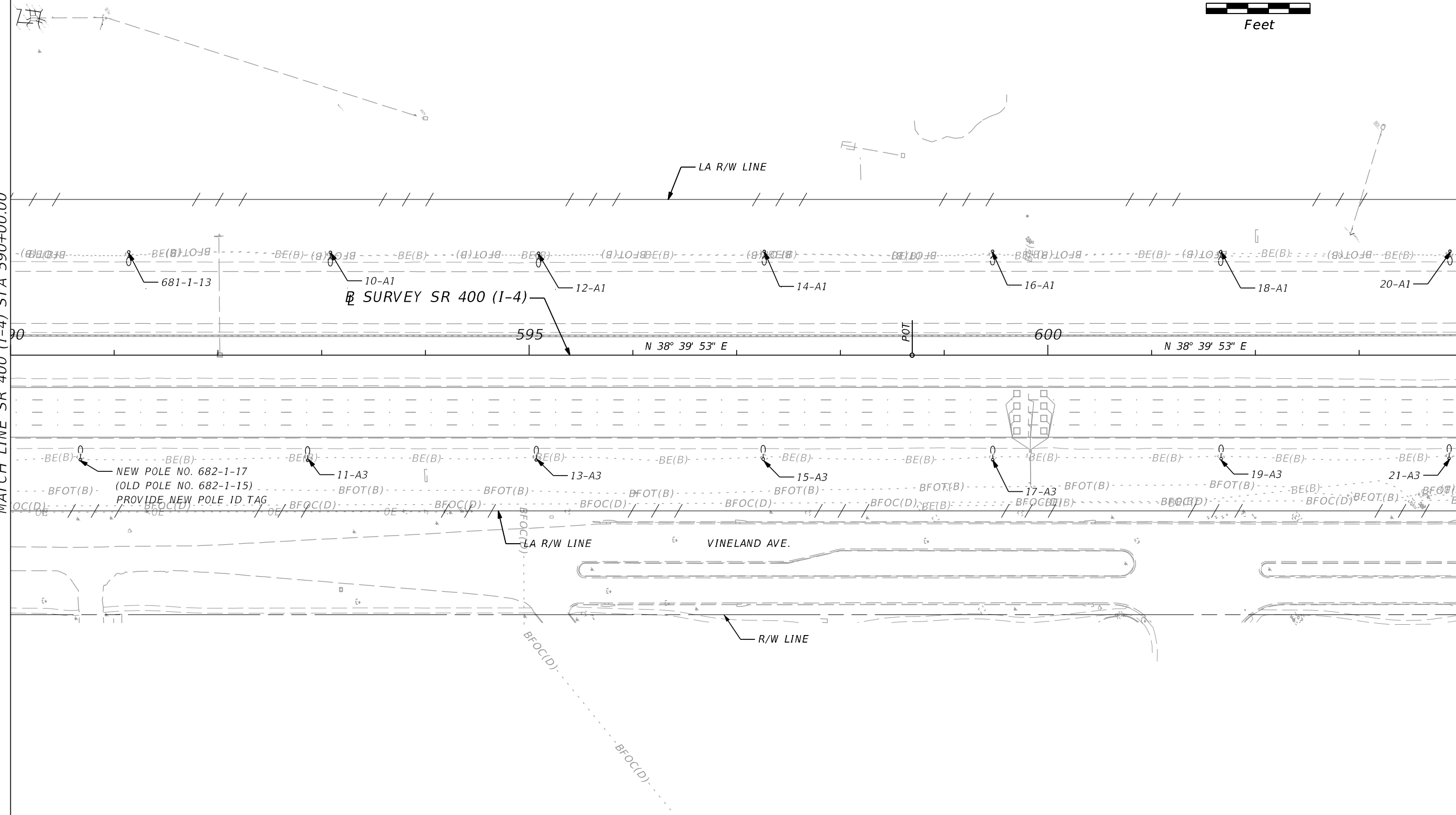
SHEET NO.
L-15

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



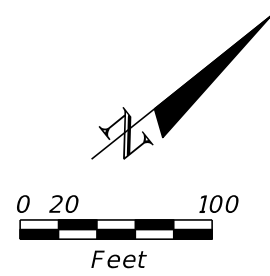
MATCH LINE SR 400 (I-4) STA 590+00.00

MATCH LINE SR 400 (I-4) STA 604+00.00



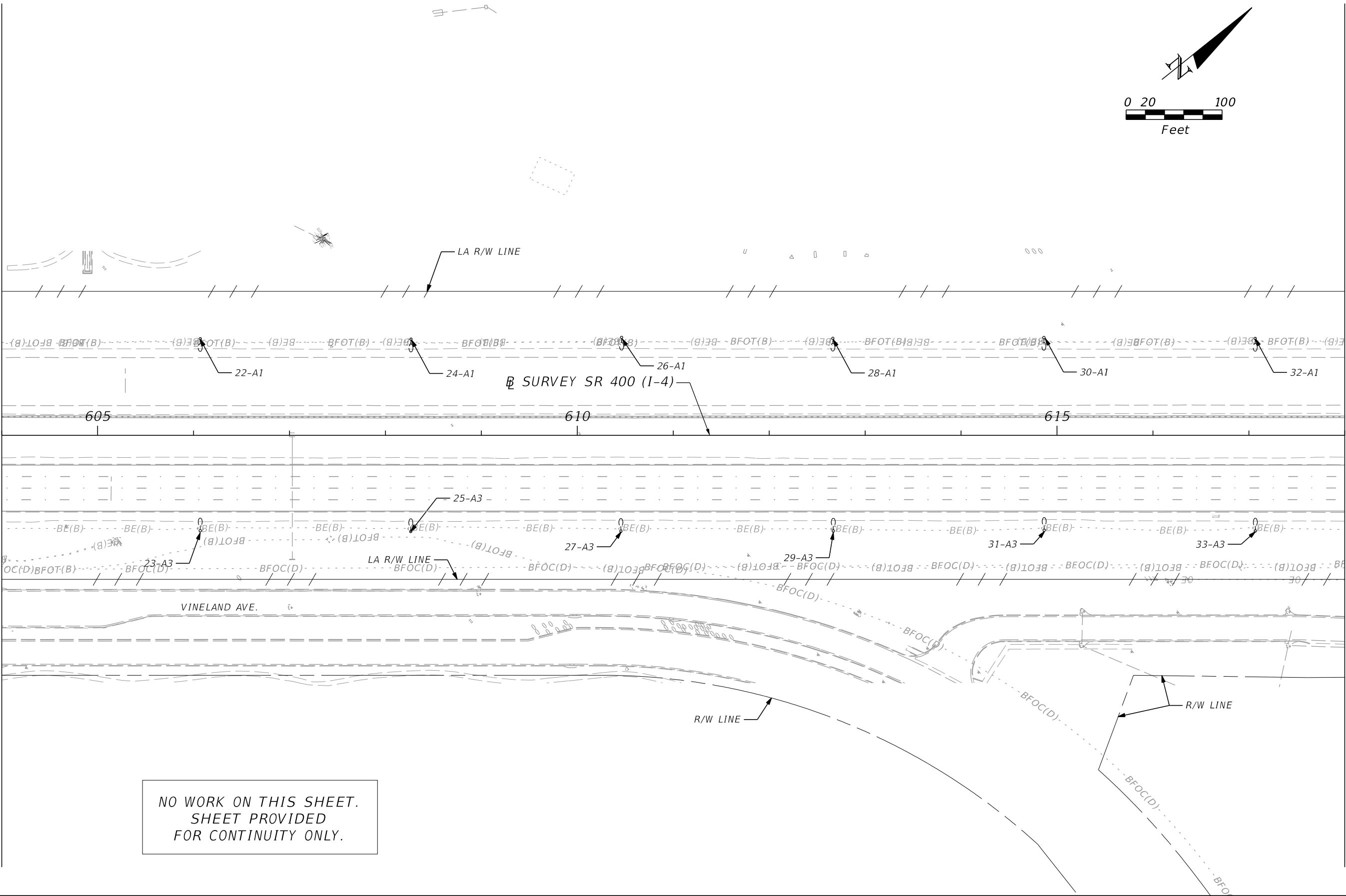
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 5	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

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



MATCH LINE SR 400 (I-4) STA 604+00.00

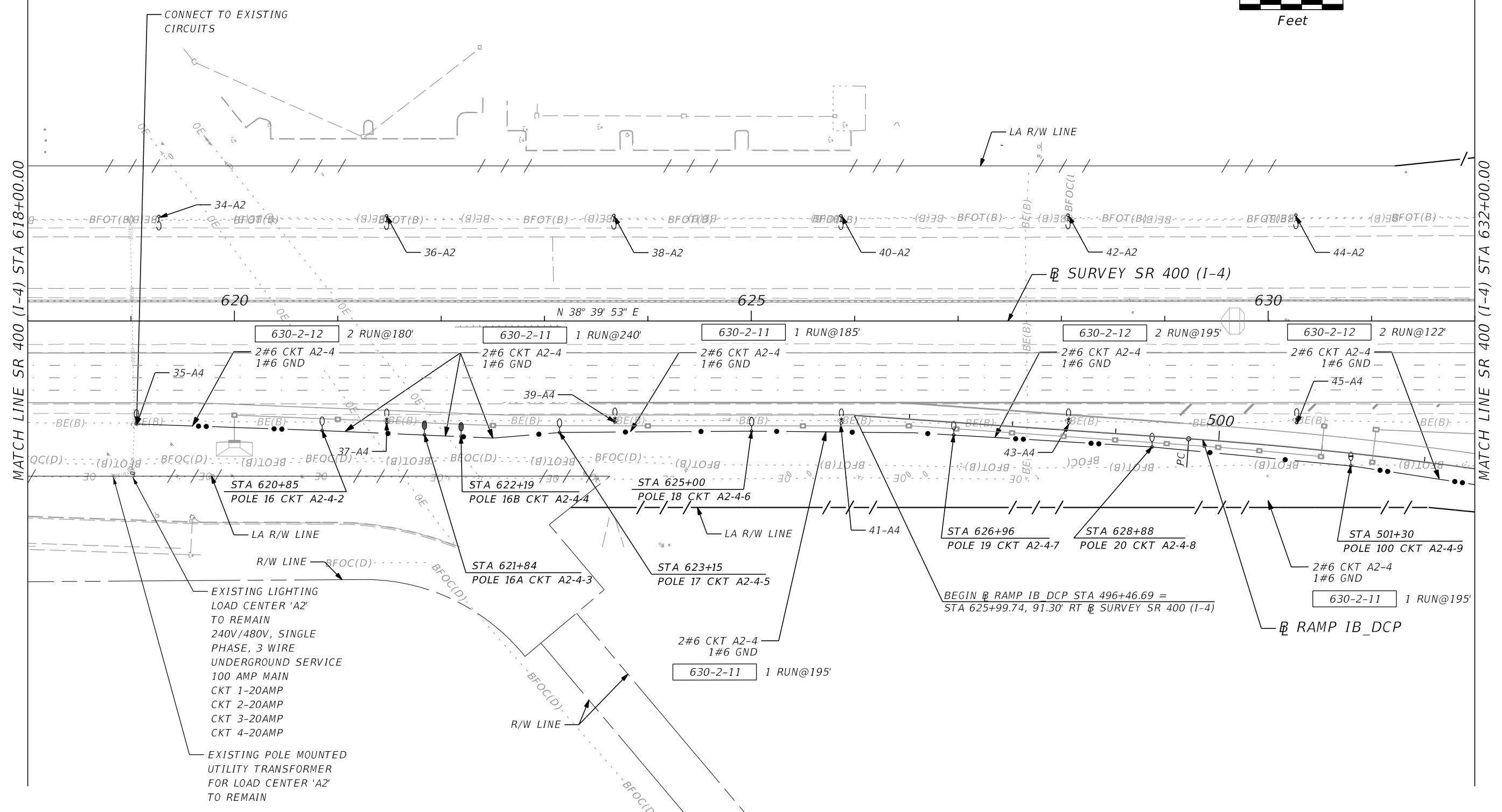
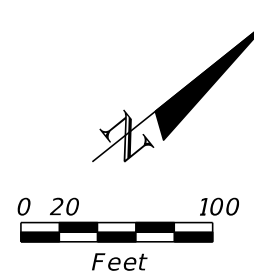
MATCH LINE SR 400 (I-4) STA 618+00.00



NO WORK ON THIS SHEET.
SHEET PROVIDED
FOR CONTINUITY ONLY.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 6	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-17
					SR 400	ORANGE	441113-1-52-01		

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



MATCH LINE SR 400 (I-4) STA 618+00.00

MATCH LINE SR 400 (I-4) STA 632+00.00

CONNECT TO EXISTING
CIRCUITS

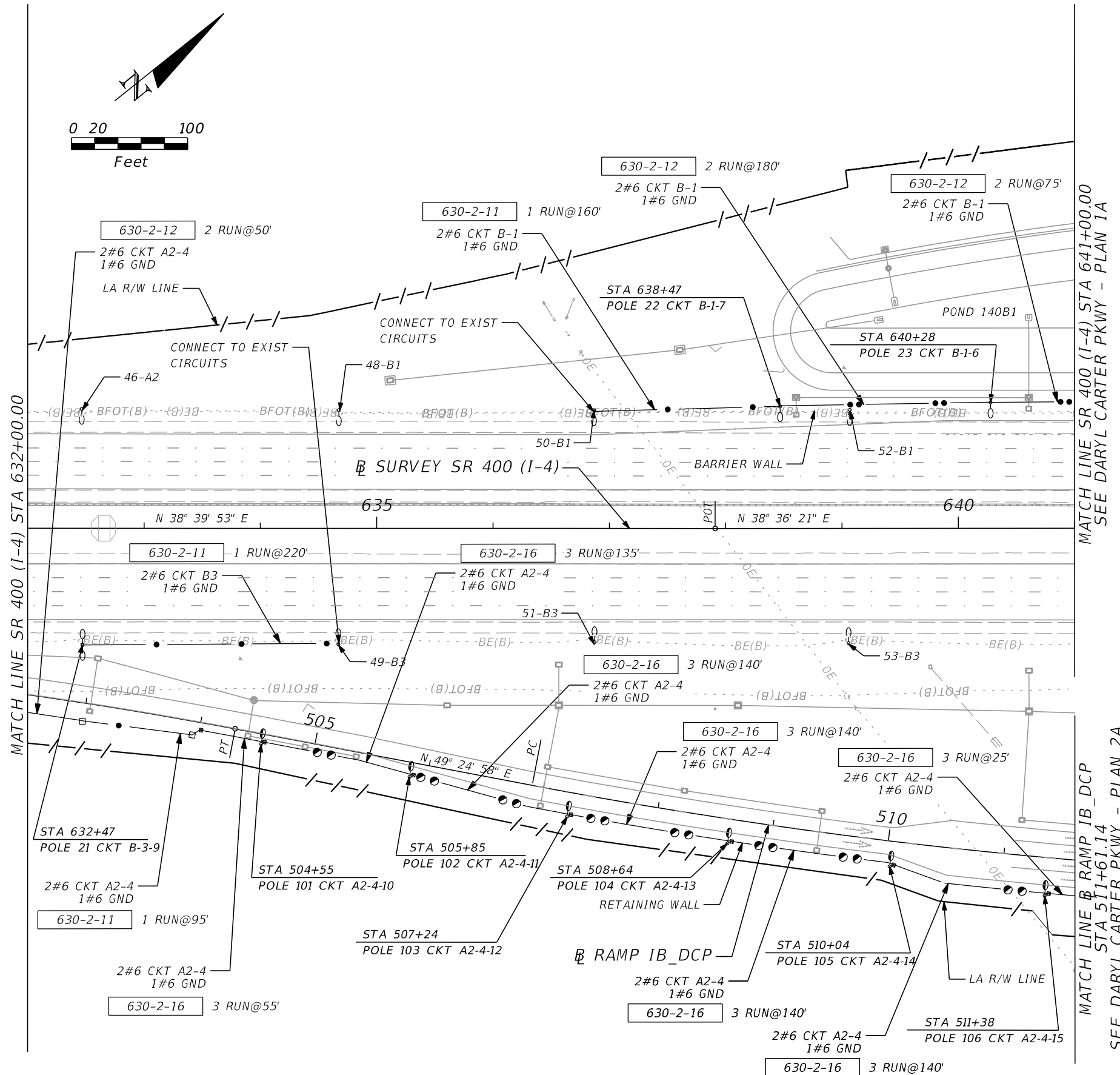
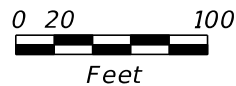
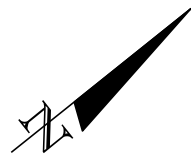
EXISTING LIGHTING
LOAD CENTER 'A2'
TO REMAIN
240V/480V, SINGLE
PHASE, 3 WIRE
UNDERGROUND SERVICE
100 AMP MAIN
CKT 1-20AMP
CKT 2-20AMP
CKT 3-20AMP
CKT 4-20AMP

EXISTING POLE MOUNTED
UTILITY TRANSFORMER
FOR LOAD CENTER 'A2'
TO REMAIN

BEGIN RAMP IB DCP STA 496+46.69 =
STA 625+99.74, 91.30° RT SURVEY SR 400 (I-4)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 7	SHEET NO. L-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

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



MATCH LINE SR 400 (I-4) STA 641+00.00
SEE DARYL CARTER PKWY - PLAN 1A

MATCH LINE RAMP IB_DCP
STA 511+61.14
SEE DARYL CARTER PKWY - PLAN 2A

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

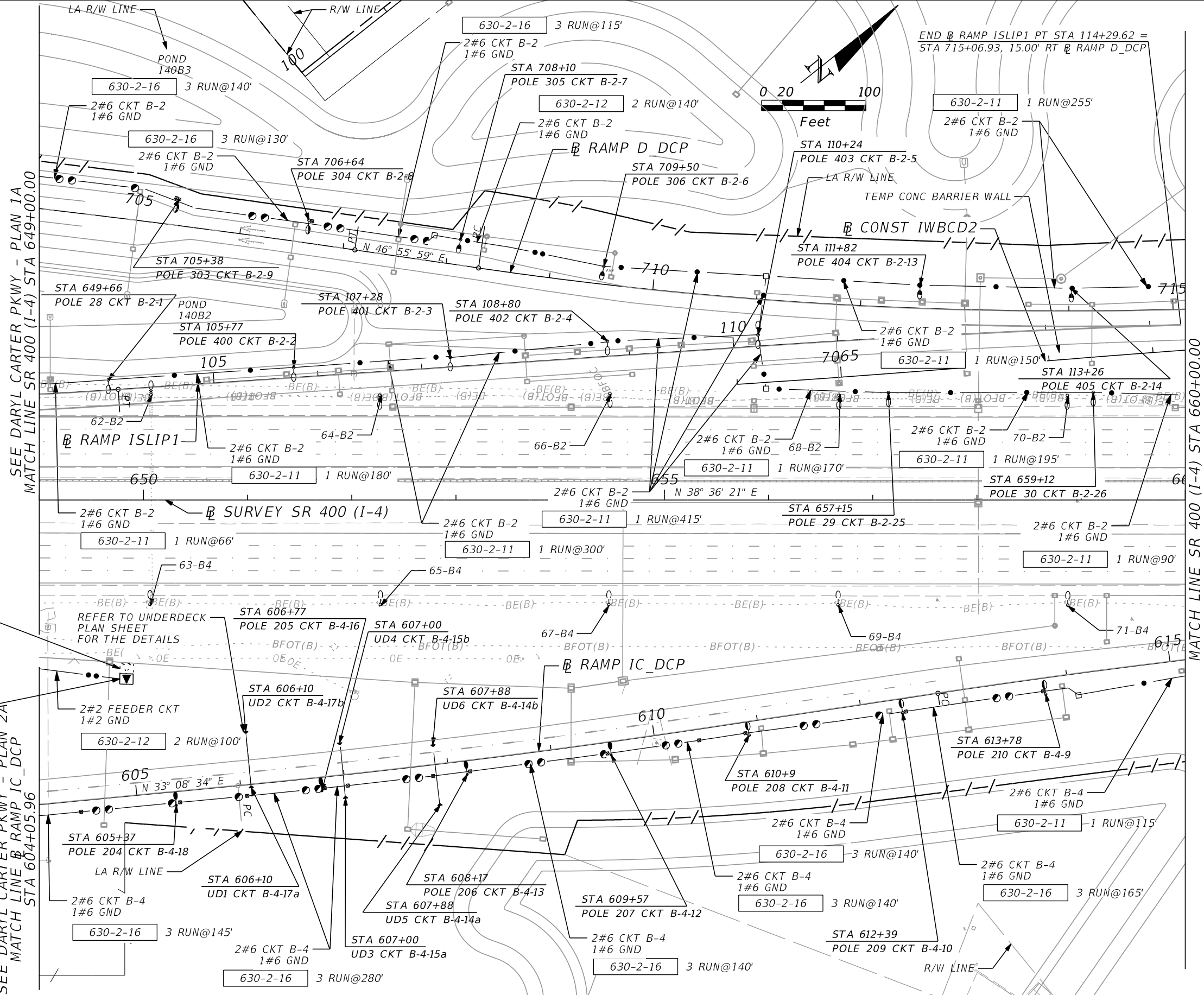
ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 8

SHEET NO.
L-19

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



EXISTING PAD MOUNT UTILITY TRANSFORMER FOR LOAD CENTER 'B' TO BE REMOVED BY DUKE ENERGY

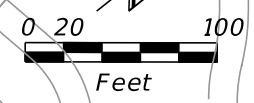
NEW 25KVA PAD MOUNT UTILITY TRANSFORMER FOR LOAD CENTER 'B' TO BE PROVIDED BY DUKE ENERGY

SEE DARYL CARTER PKWY - PLAN 1A
MATCH LINE SR 400 (I-4) STA 649+00.00

SEE DARYL CARTER PKWY - PLAN 2A
MATCH LINE RAMP IC_DCP STA 604+05.96

MATCH LINE SR 400 (I-4) STA 660+00.00

END @ RAMP ISLIP1 PT STA 114+29.62 = STA 715+06.93, 15.00' RT @ RAMP D_DCP



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

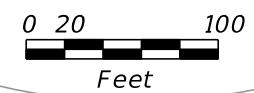
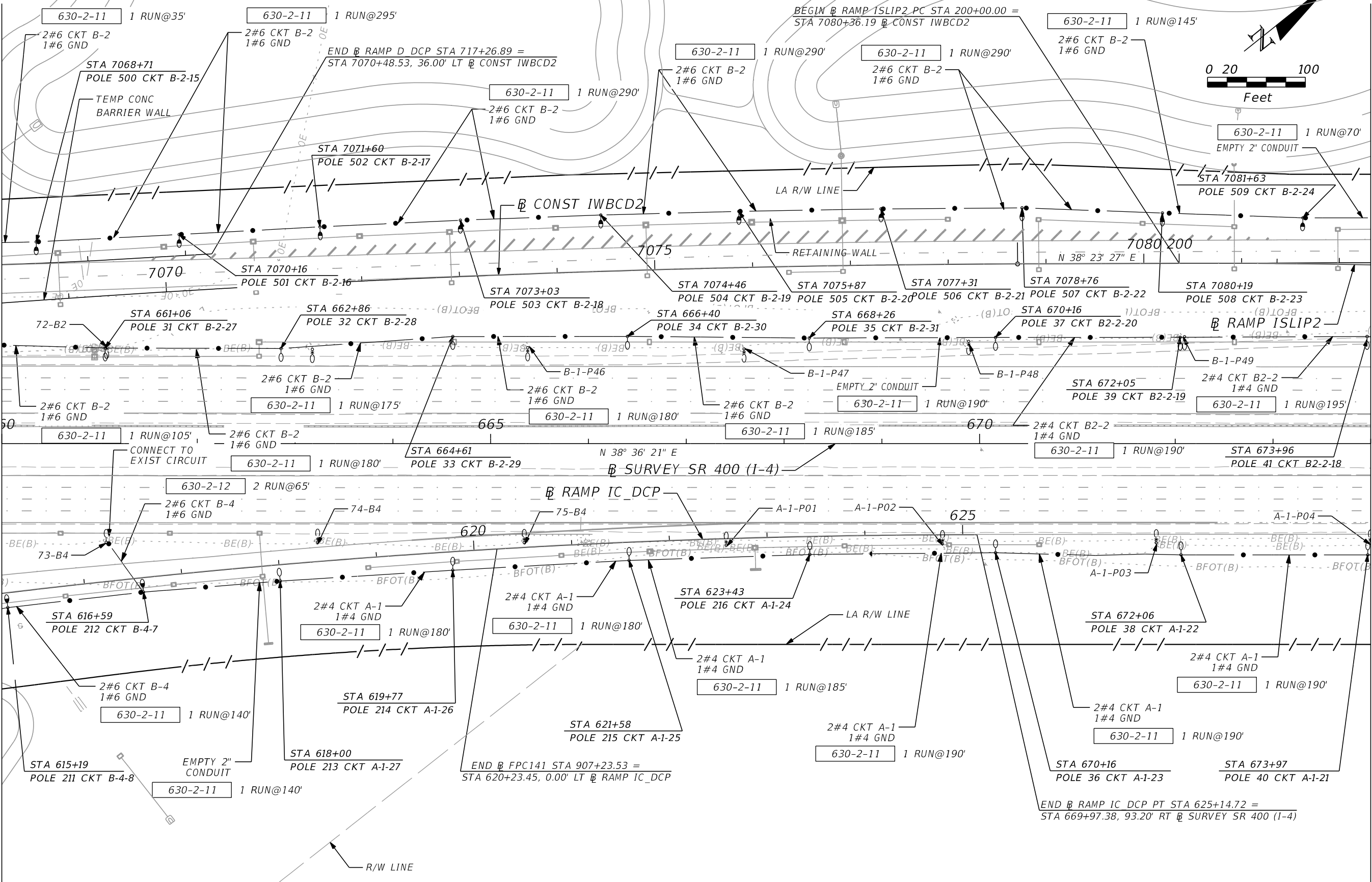
SR 400 (I-4) - PLAN 9

SHEET NO.
L-20

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

MATCH LINE SR 400 (I-4) STA 660+00.00

MATCH LINE SR 400 (I-4) STA 674+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

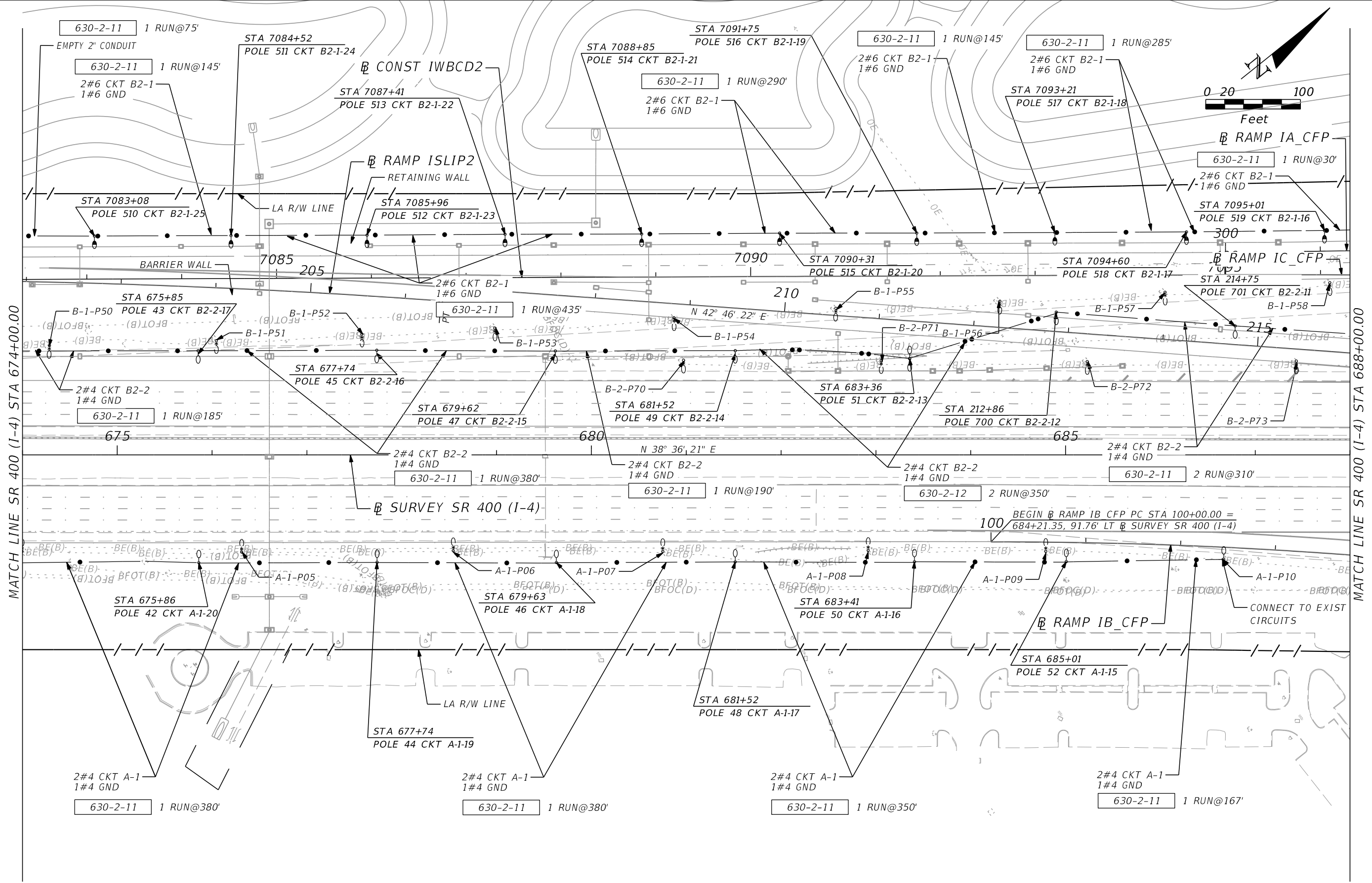
ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 10

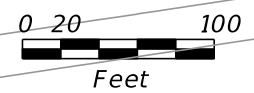
SHEET NO.
L-21

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



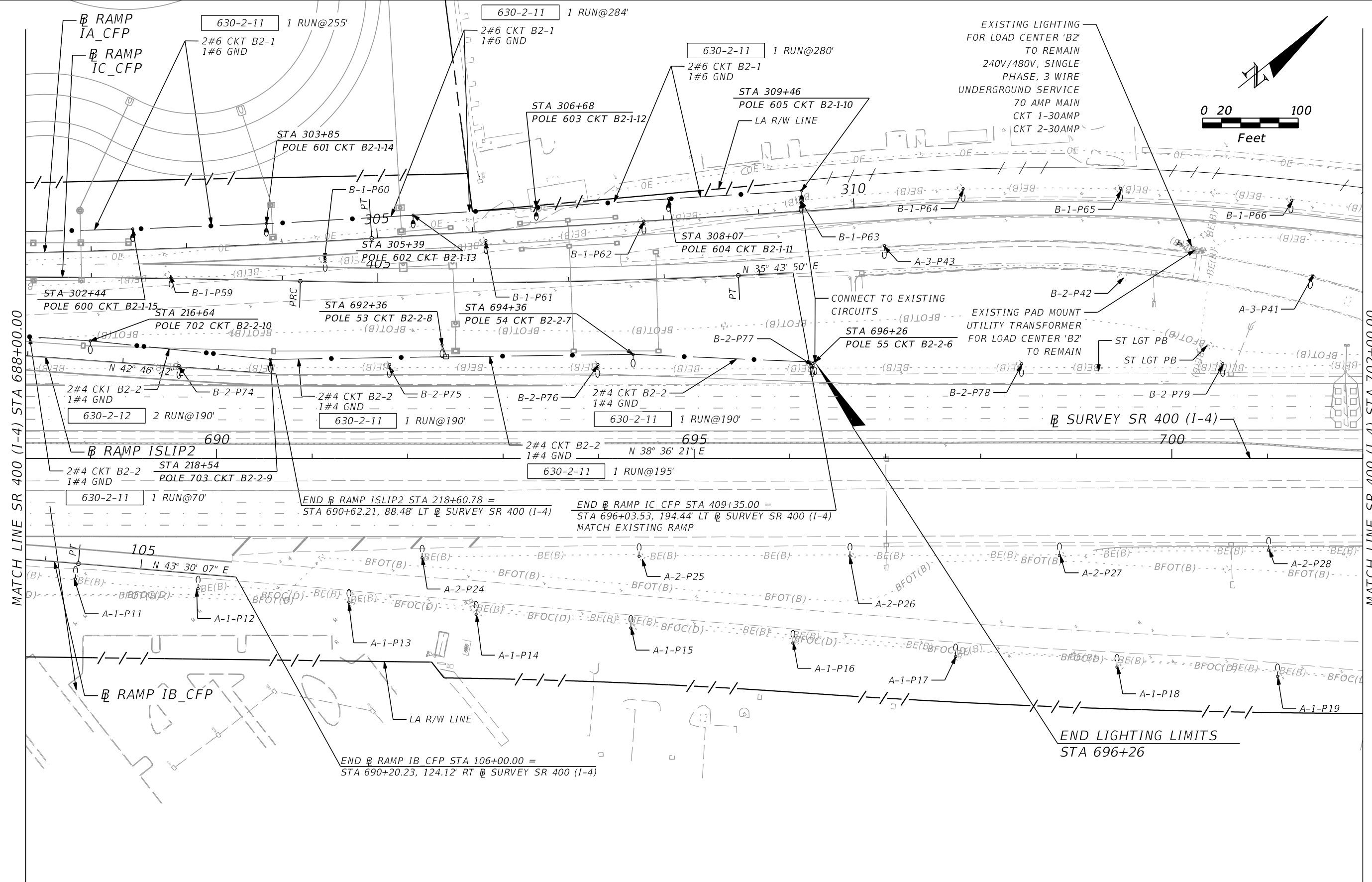
MATCH LINE SR 400 (I-4) STA 674+00.00

MATCH LINE SR 400 (I-4) STA 688+00.00



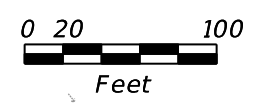
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 11	SHEET NO. L-22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

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



MATCH LINE SR 400 (I-4) STA 688+00.00

MATCH LINE SR 400 (I-4) STA 702+00.00



EXISTING LIGHTING
FOR LOAD CENTER 'B2'
TO REMAIN
240V/480V, SINGLE
PHASE, 3 WIRE
UNDERGROUND SERVICE
70 AMP MAIN
CKT 1-30AMP
CKT 2-30AMP

END RAMP ISLIP2 STA 218+60.78 =
STA 690+62.21, 88.48' LT SURVEY SR 400 (I-4)

END RAMP IC CFP STA 409+35.00 =
STA 696+03.53, 194.44' LT SURVEY SR 400 (I-4)
MATCH EXISTING RAMP

END RAMP IB CFP STA 106+00.00 =
STA 690+20.23, 124.12' RT SURVEY SR 400 (I-4)

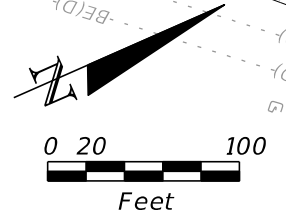
END LIGHTING LIMITS
STA 696+26

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 12	SHEET NO. L-23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

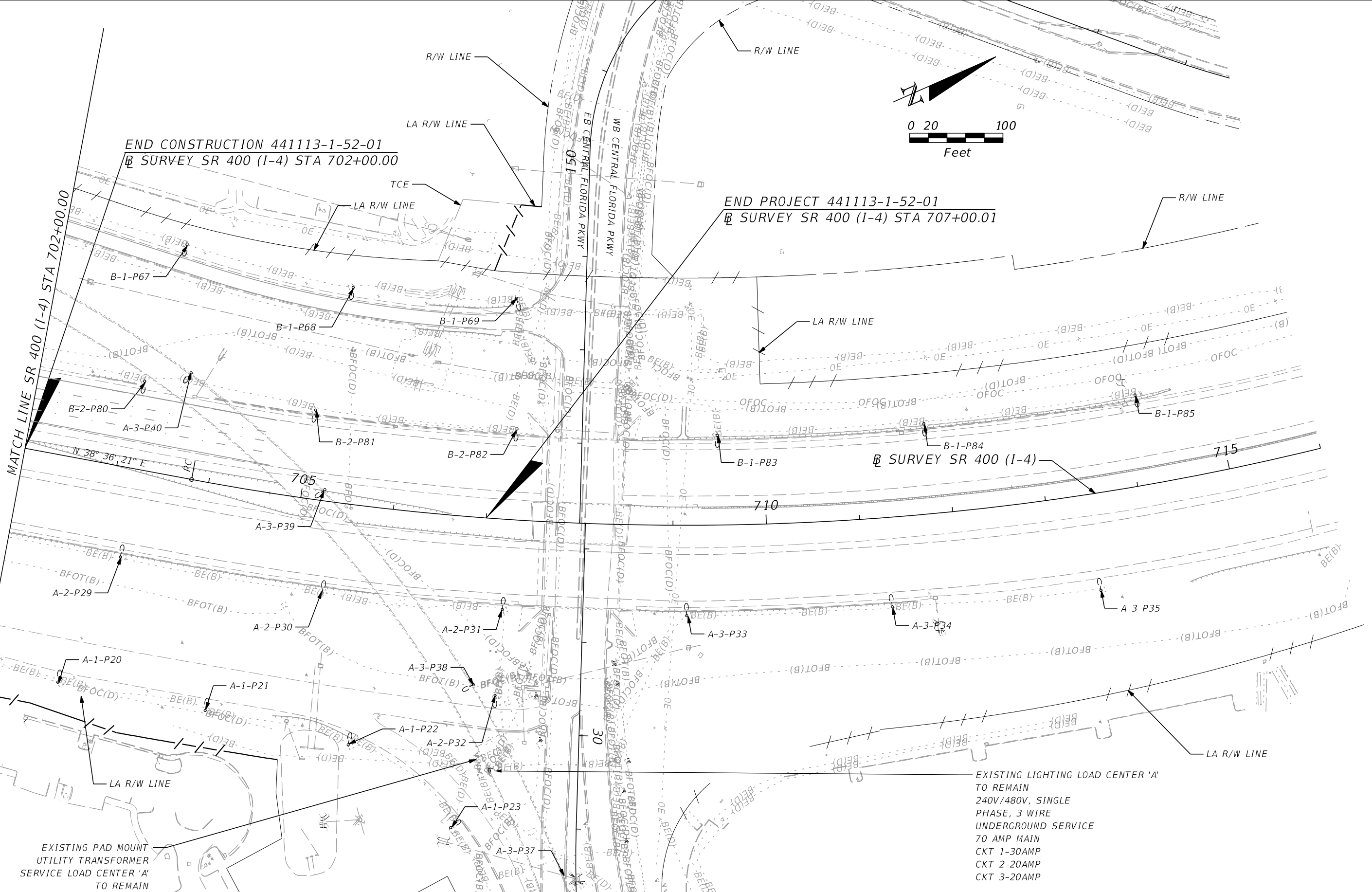
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

END CONSTRUCTION 441113-1-52-01
 SURVEY SR 400 (I-4) STA 702+00.00

END PROJECT 441113-1-52-01
 SURVEY SR 400 (I-4) STA 707+00.01



MATCH LINE SR 400 (I-4) STA 702+00.00



EXISTING PAD MOUNT
 UTILITY TRANSFORMER
 SERVICE LOAD CENTER 'A'
 TO REMAIN

EXISTING LIGHTING LOAD CENTER 'A'
 TO REMAIN
 240V/480V, SINGLE
 PHASE, 3 WIRE
 UNDERGROUND SERVICE
 70 AMP MAIN
 CKT 1-30AMP
 CKT 2-20AMP
 CKT 3-20AMP

REVISIONS	
DATE	DESCRIPTION

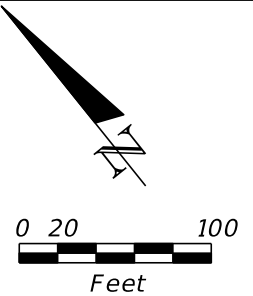
ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801
 CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

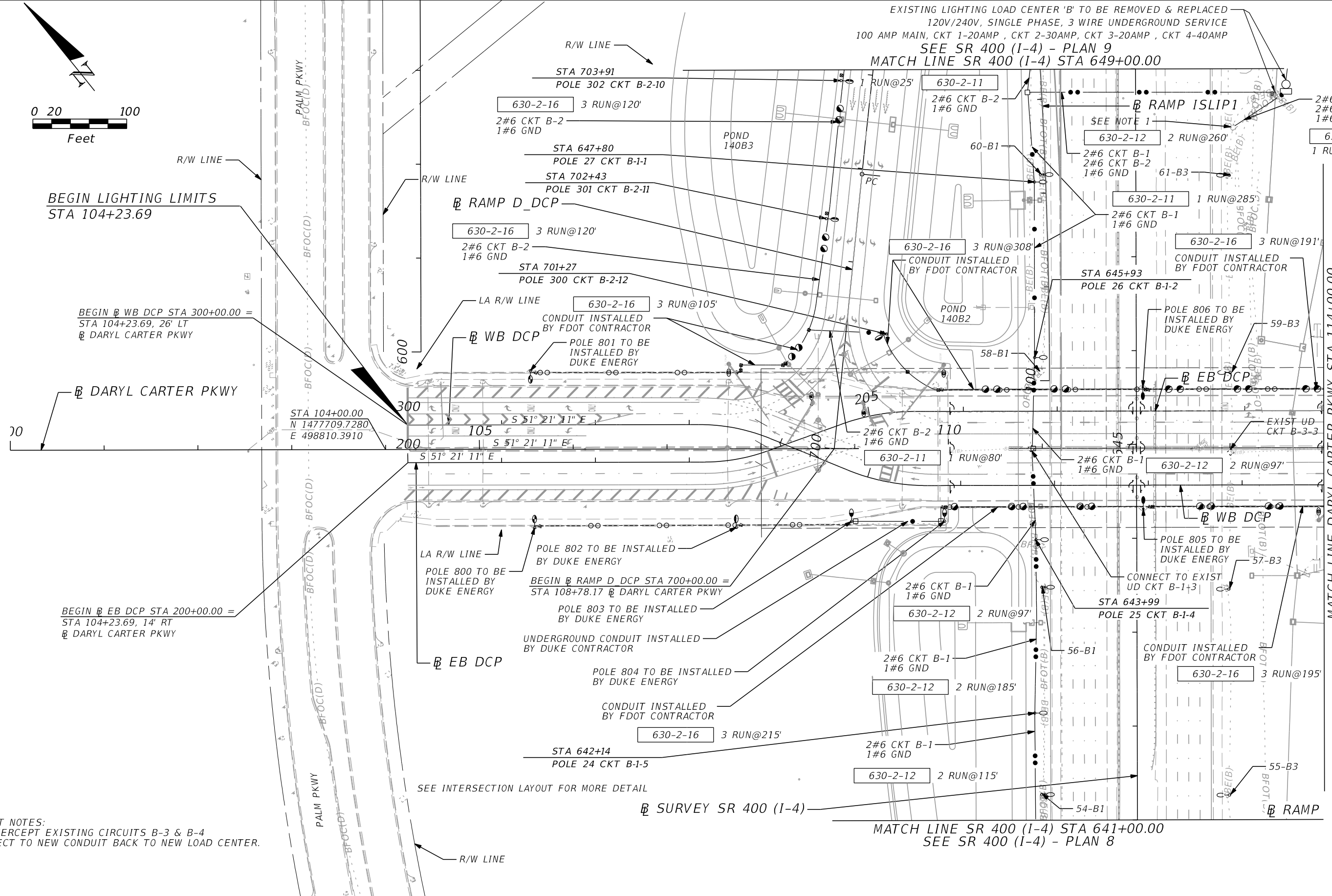
SR 400 (I-4) - PLAN 13

SHEET NO.
L-24

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



EXISTING LIGHTING LOAD CENTER 'B' TO BE REMOVED & REPLACED
 120V/240V, SINGLE PHASE, 3 WIRE UNDERGROUND SERVICE
 100 AMP MAIN, CKT 1-20AMP, CKT 2-30AMP, CKT 3-20AMP, CKT 4-40AMP
 SEE SR 400 (I-4) - PLAN 9
 MATCH LINE SR 400 (I-4) STA 649+00.00



BEGIN LIGHTING LIMITS
 STA 104+23.69

BEGIN WB DCP STA 300+00.00 =
 STA 104+23.69, 26' LT
 DARYL CARTER PKWY

BEGIN EB DCP STA 200+00.00 =
 STA 104+23.69, 14' RT
 DARYL CARTER PKWY

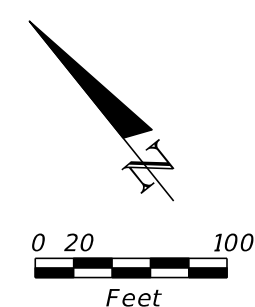
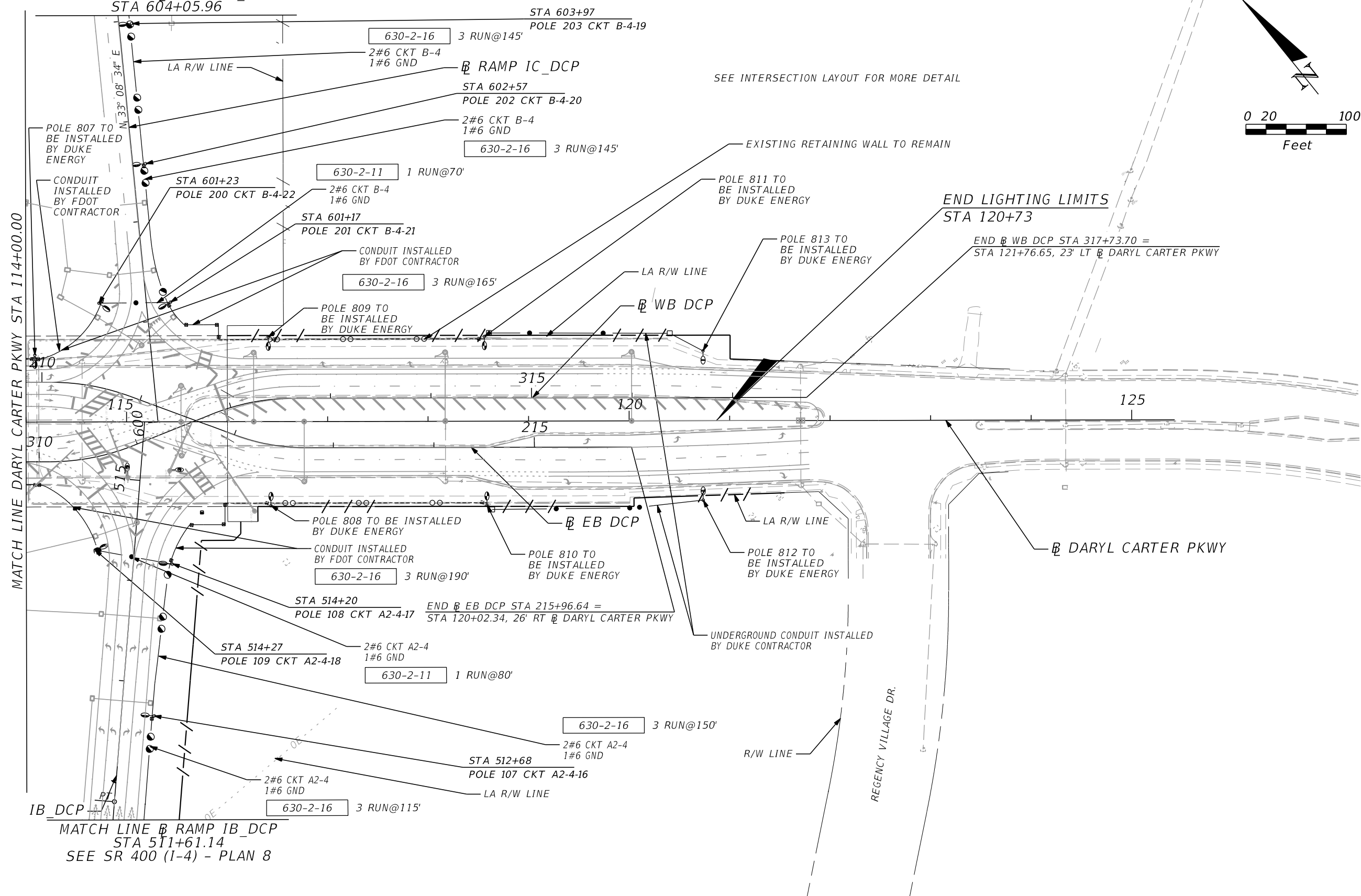
BEGIN RAMP D DCP STA 700+00.00 =
 STA 108+78.17 DARYL CARTER PKWY

SHEET NOTES:
 1. INTERCEPT EXISTING CIRCUITS B-3 & B-4
 CONNECT TO NEW CONDUIT BACK TO NEW LOAD CENTER.

ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801
 CERTIFICATE OF AUTHORIZATION 8115

DARYL CARTER PKWY - PLAN 1A

SEE SR 400 (I-4) - PLAN 9
MATCH LINE B RAMP IC_DCP
STA 604+05.96

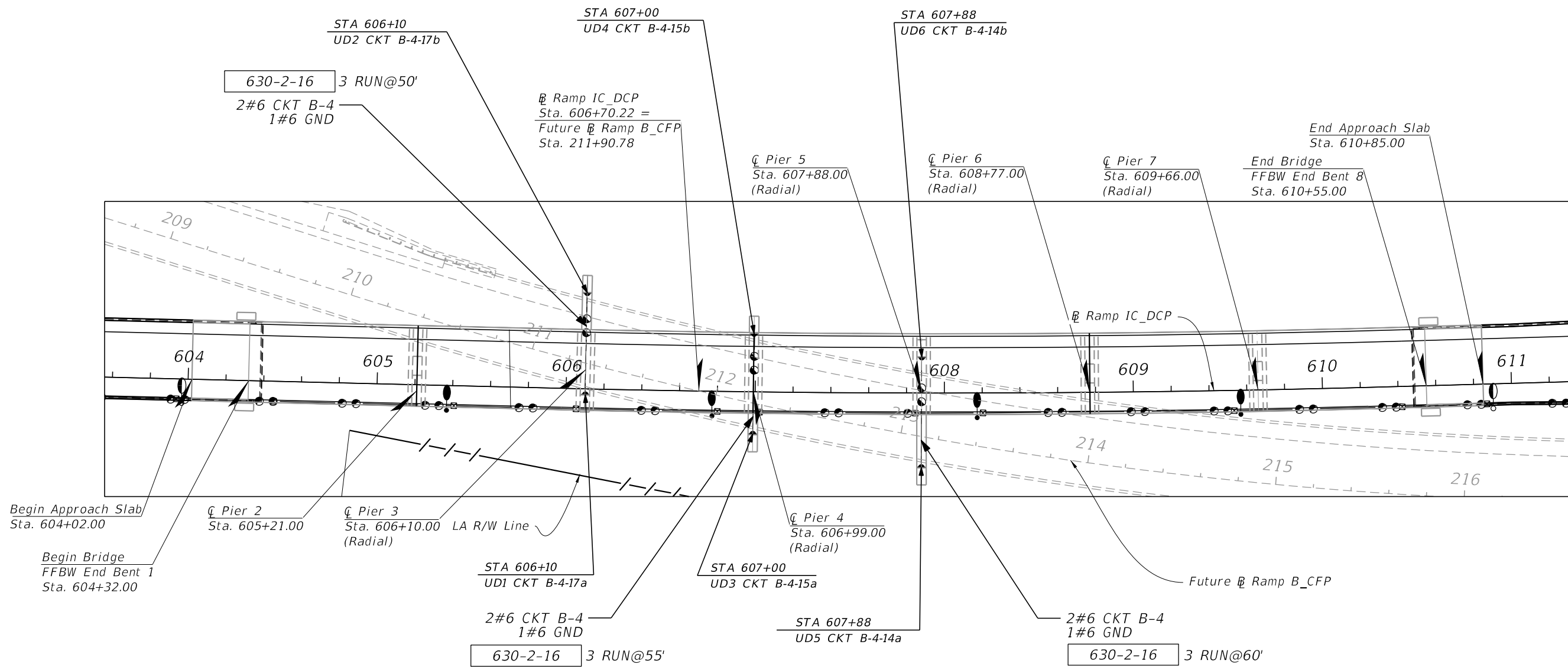
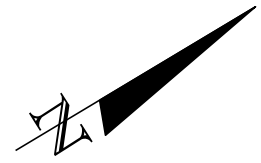


MATCH LINE DARYL CARTER PKWY STA 114+00.00

IB_DCP
MATCH LINE B RAMP IB_DCP
STA 511+61.14
SEE SR 400 (I-4) - PLAN 8

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-26
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	DARYL CARTER PKWY - PLAN 2A

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



SCALE: 1" = 60'

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION 8115	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

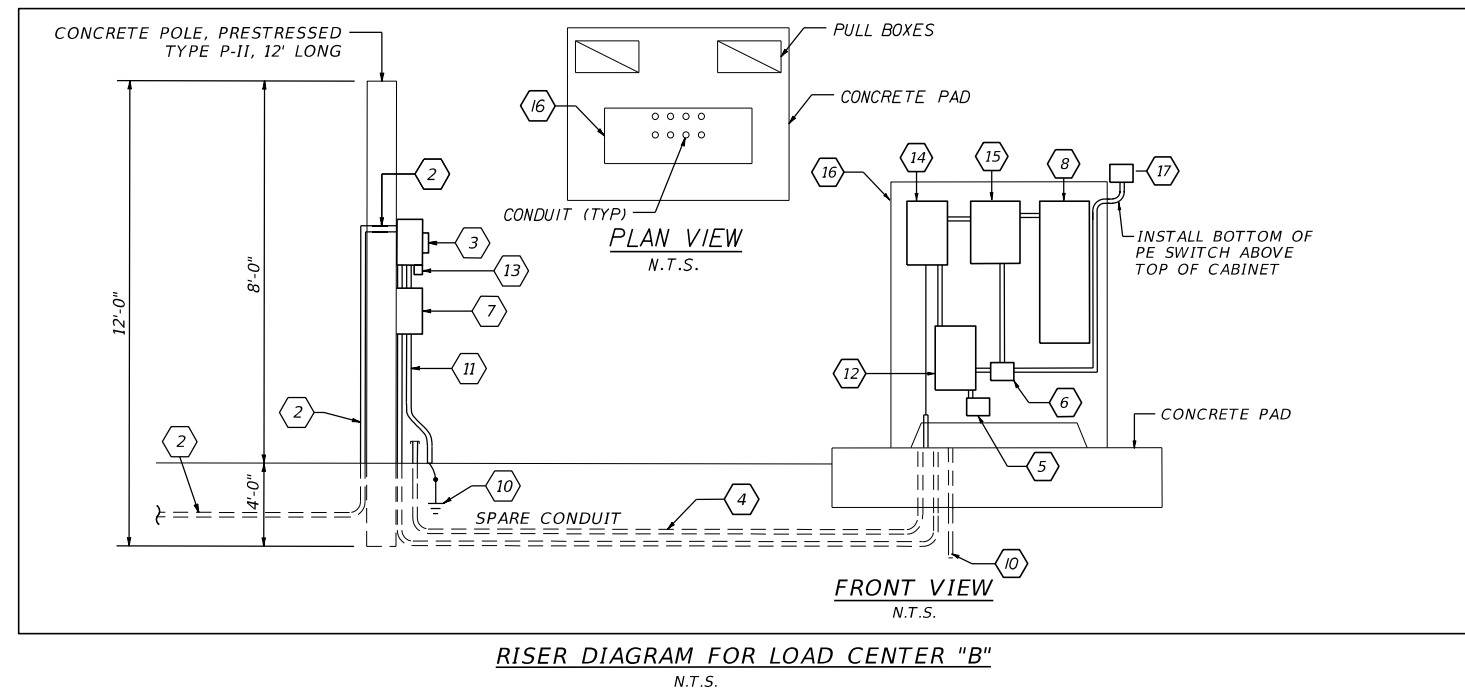
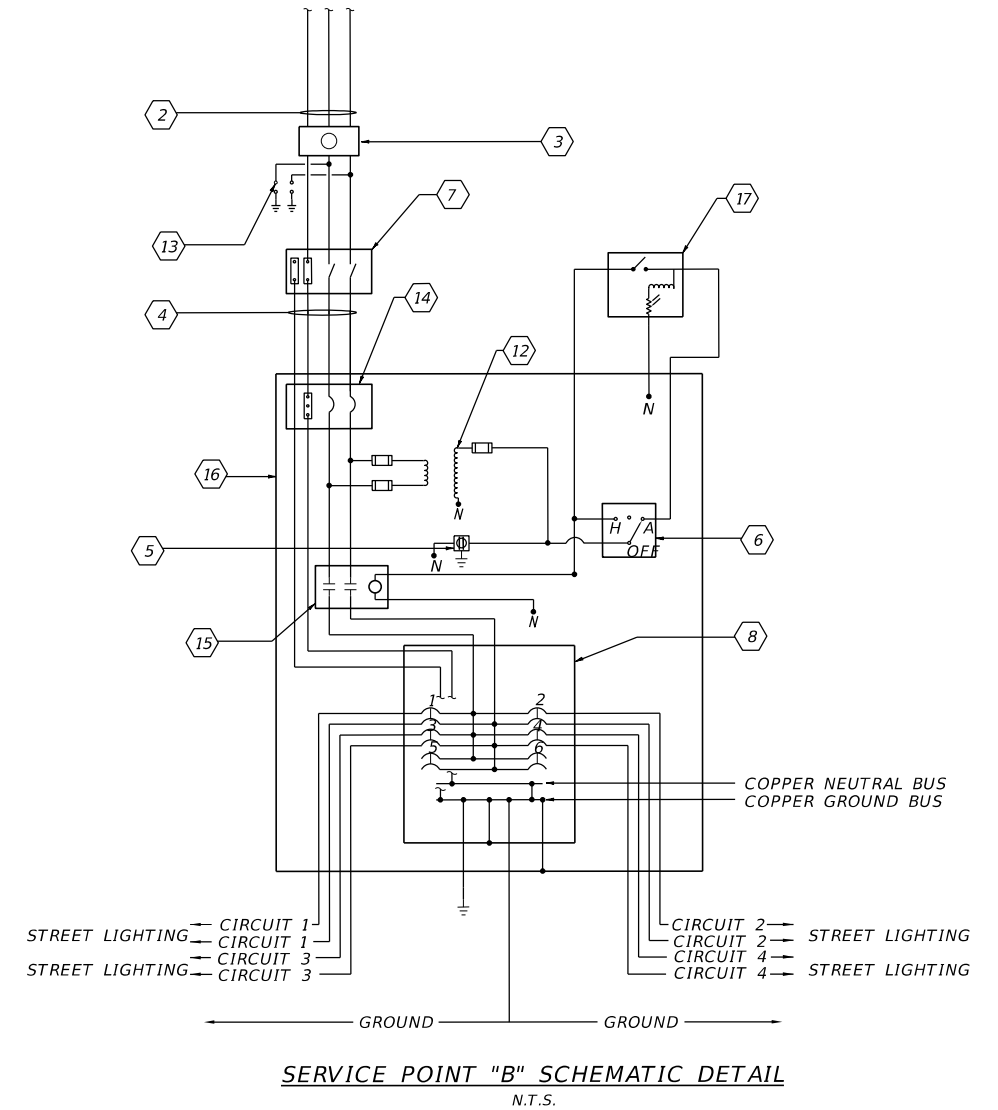
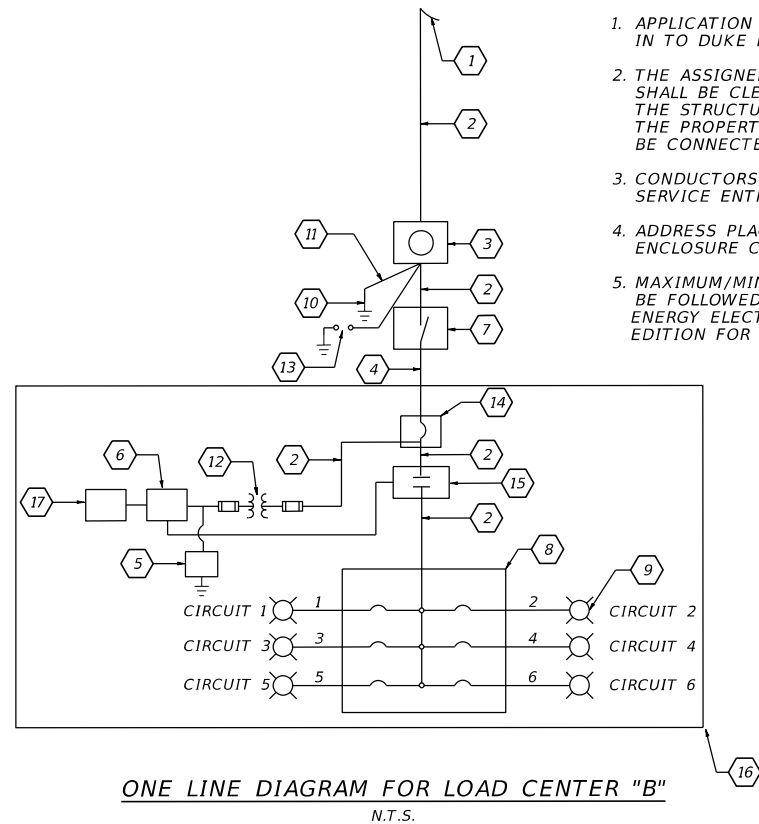
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KEYED NOTES: APPLY FOR LOAD CENTER "B"

- ① SINGLE PHASE, 240/480V, 3-WIRE UNDERGROUND SERVICE, COORDINATE WITH DUKE ENERGY.
- ② 2#2 AWG SERVICE-ENTRANCE PHASE CONDUCTORS AND 1#2 AWG GROUNDED SERVICE CONDUCTOR IN 2-1/2" SCH 80 FOR UNDERGROUND AND RGS FOR ABOVE GROUND CONDUITS.
- ③ METER SOCKET BY CONTRACTOR, METER BY DUKE ENERGY.
- ④ 2#2 AWG SERVICE-ENTRANCE PHASE CONDUCTORS, 1#2 AWG GROUNDED SERVICE CONDUCTOR AND 1#2 AWG EQUIPMENT GROUND CONDUCTOR IN 2-1/2" SCH 80 FOR UNDERGROUND AND RGS FOR ABOVE GROUND CONDUITS.
- ⑤ NEMA 5-15R GFI DUPLEX RECEPTACLE WITH WP BOX & COVER
- ⑥ HAND-OFF AUTO SELECTOR SWITCH PART OF LIGHTING CONTACTOR
- ⑦ 100A, 480V, 2-POLE S/N HEAVY DUTY NEMA 3R FUSED SAFETY SWITCH, RK5 TYPE FUSED AT 100A.
- ⑧ 240/480V, 3 WIRE, M.L.O. 100 AMP PANEL WITH 2 POLE, 35,000 A.I.C. BRANCH CIRCUIT BREAKERS IN A NEMA 1 ENCLOSURE.
- ⑨ ROADWAY LUMINAIRE CONNECTED TO CIRCUIT.
- ⑩ GROUND IN ACCORDANCE WITH THE NEC AND LOCAL CODES WHICH EXCEED THE DOT SPECS. USE AN APPROVED COPPER CLAD GROUND ROD, 40' IN LENGTH AND AT LEAST 3/8" IN DIAMETER.
- ⑪ #6 INSULATED COPPER GROUND WIRE IN SIZE 1" RIGID GALVANIZED STEEL.
- ⑫ CONTROL TRANSFORMER 1 KVA, SINGLE PHASE, 480V PRIMARY 120V SECONDARY.
- ⑬ TYPE 1 SPD (LIGHTNING ARRESTER) SUITABLE FOR SERVICE ENTRANCE TO BE MOUNTED ON THE OUTSIDE OF METER.
- ⑭ MAIN MOLDED CASE CIRCUIT BREAKER 480V, 100 AMP, 2P, SN 60HZ SERVICE ENTRANCE RATED. 35,000 A.I.C. IN A NEMA 1 ENCLOSURE
- ⑮ ELECTRICALLY HELD LIGHTING CONTACTOR 480V, 100 AMP, 2P, 60HZ, 120V COIL IN A NEMA 1 ENCLOSURE.
- ⑯ FREE STANDING NEMA 4X STAINLESS STEEL ENCLOSURE WITH TWO DOORS AND BACK PANEL.
- ⑰ 120V PHOTO-ELECTRIC CELL TORK MODEL 2101, 2000VA RATED.

ADDITIONAL DUKE ENERGY ELECTRICAL SERVICE REQUIREMENTS:

1. APPLICATION FOR SERVICE NEEDS TO BE CALLED IN TO DUKE ENERGY. CUSTOMER SERVICE CENTER.
2. THE ASSIGNED (PERMITTED) SERVICE ADDRESS SHALL BE CLEARLY AND PERMANENTLY MARKED ON THE STRUCTURE AND VISIBLE FROM THE FRONT OF THE PROPERTY BEFORE THE METER/SERVICE WILL BE CONNECTED.
3. CONDUCTORS MARKED 12" FROM THE END OF A SERVICE ENTRANCE.
4. ADDRESS PLACARD POP RIVETED TO THE METER ENCLOSURE COVER.
5. MAXIMUM/MINIMUM HEIGHT REQUIREMENTS SHALL BE FOLLOWED. REFER TO LATEST EDITION OF DUKE ENERGY ELECTRIC METERING SERVICE REQUIREMENTS EDITION FOR ADDITIONAL REQUIREMENTS.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 8115

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SERVICE POINT DETAILS

SHEET NO.
L-28

240/480V.,1Ø,3W WITH GROUND BUS										EXISTING LOAD CENTER "682" PANEL "682" SCHEDULE					100A., M.L.O. NEMA 1 ENCLOSURE				
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD					
1	6.76	14.08	20/2	STREET LIGHTING	2	1.44	3.0	20/2	STREET LIGHTING										
3	4.4	9.2	20/2	STREET LIGHTING	4	3.71	7.73	30/2	STREET LIGHTING										
5	.21	4.4	20/2	STREET LIGHTING	6	7.48	15.6	30/2	STREET LIGHTING										
7	4.8	10.0	30/2	STREET LIGHTING	8	-	-	30/2	SPARE										
9	-	-	30/2	SPARE	10	-	-	-	SPACE										
11	-	-	-	SPACE	12	-	-	-	SPACE										
CONTINUOUS LOAD:					30.72 KVA (64.01 AMPS)														
TOTAL LOAD:					38.4 KVA (80.01 AMPS)														

NOTES:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS										EXISTING LOAD CENTER "A2" PANEL "A2" SCHEDULE					100A., M.L.O. NEMA 1 ENCLOSURE				
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD					
1	5.76	12.0	30/2	STREET LIGHTING	2	4.4	9.20	30/2	STREET LIGHTING										
3	5.76	12.0	30/2	STREET LIGHTING	4	5.6	11.67	30/2	STREET LIGHTING										
5	-	-	30/2	SPARE	6	-	-	30/2	SPARE										
7	-	-	-	SPACE	8	-	-	-	SPACE										
CONTINUOUS LOAD:					21.54 KVA (44.87 AMPS)														
TOTAL LOAD:					26.92 KVA (56.09 AMPS)														

NOTE:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS										EXISTING LOAD CENTER "B" PANEL "B" SCHEDULE					100A., M.L.O. NEMA 1 ENCLOSURE				
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD					
1	5.19	10.81	40/2	STREET LIGHTING	2	9.48	19.75	40/2	STREET LIGHTING										
3	4.7	9.94	40/2	STREET LIGHTING	4	6.9	14.47	40/2	STREET LIGHTING										
5	-	-	40/2	SPARE	6	-	-	40/2	SPARE										
7	-	-	-	SPACE	8	-	-	-	SPACE										
CONTINUOUS LOAD:					26.38 KVA (54.96 AMPS)														
TOTAL LOAD:					32.97 KVA (68.70 AMPS)														

NOTE:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS										EXISTING LOAD CENTER "B2" PANEL "B2" SCHEDULE					100A., M.L.O. NEMA 1 ENCLOSURE				
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD					
1	7.5	15.67	30/2	STREET LIGHTING	2	8.6	17.93	30/2	STREET LIGHTING										
3	-	-	30/2	SPARE	4	-	-	30/2	SPARE										
5	-	-	30/2	SPARE	6	-	-	30/2	SPARE										
7	-	-	-	SPACE	8	-	-	-	SPACE										
CONTINUOUS LOAD:					16.1 KVA (33.60 AMPS)														
TOTAL LOAD:					20.2 KVA (42.00 AMPS)														

NOTE:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS										EXISTING LOAD CENTER "A" PANEL "A" SCHEDULE					100A., M.L.O. NEMA 1 ENCLOSURE				
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD					
1	10.3	21.51	30/2	STREET LIGHTING	2	4.18	8.7	30/2	STREET LIGHTING										
3	3.8	7.9	30/2	STREET LIGHTING	4	-	-	30/2	SPARE										
5	-	-	30/2	SPARE	6	-	-	-	SPACE										
7	-	-	-	SPACE	8	-	-	-	SPACE										
CONTINUOUS LOAD:					18.3 KVA (38.11 AMPS)														
TOTAL LOAD:					22.8 KVA (47.64 AMPS)														

NOTE:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	