



*OSCEOLA COUNTY, FLORIDA
TRANSPORTATION AND TRANSIT*

CONTRACT PLANS

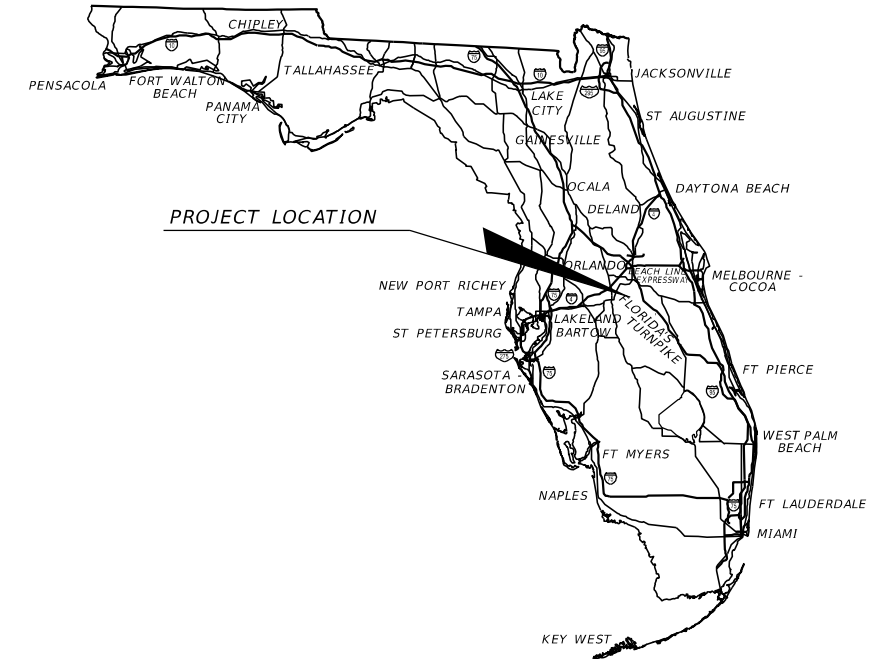
FINANCIAL PROJECT ID 447605-1-58-01

COUNTY PROJECT NO. PS-21-12254-DG

OSCEOLA COUNTY (10320)

MARIGOLD AVENUE SAFETY IMPROVEMENTS

LIGHTING PLANS



INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
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PHASE II
JUNE 2022

**LIGHTING PLANS
ENGINEER OF RECORD:**

BAHMAN BEHZADI, P.E.
P.E. NO.: 53636
DEWBERRY ENGINEERS INC.
800 NORTH MAGNOLIA AVENUE, SUITE 1000
ORLANDO, FLORIDA 32803
VENDOR NO.: F130746510001


OSCEOLA COUNTY PROJECT MANAGER: KATHY LEE, P.E.

FISCAL YEAR	SHEET NO.
22	L-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET	
			L-9		L-10		L-11		L-12		L-13		L-14		L-15		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	366		685		151		568		114		477		373		2734	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	57		350		337		1032		60		350		324		2510	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	3		11		3		10		3		3		5		38	
715-4-13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA	2		9		2		8		2		1		2		26	
715-5-21	LUMINAIRE & BRACKET ARM, REPLACE LUMINAIRE AND ARM ON EXISTING POLE	EA							1								1	
715-5-31	LUMINAIRE & BRACKET ARM- ALUMINUM, FURNISH & INSTALL NEW LUMINAIRE AND ARM ON NEW/EXISTING POLE	EA			1								2		2		5	

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REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <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>				DATE	DESCRIPTION	DATE	DESCRIPTION					BAHMAN BEHZADI, P.E. P.E. NO.: 53636 DEWBERRY ENGINEERS INC. 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803		 OSCEOLA COUNTY	COUNTY PROJECT NO. 447605-1-38-01	TABULATION OF QUANTITIES	SHEET NO. L-2
DATE	DESCRIPTION	DATE	DESCRIPTION														






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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L - 16		L - 17															
			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	594		790												1384		4118	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	110		355												465		2975	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	4		12												16		54	
715-4-13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA	1		6												7		33	
715-5-21	LUMINAIRE & BRACKET ARM, REPLACE LUMINAIRE AND ARM ON EXISTING POLE	EA																	1	
715-5-31	LUMINAIRE & BRACKET ARM- ALUMINUM, FURNISH & INSTALL NEW LUMINAIRE AND ARM ON NEW/EXISTING POLE	EA	2		4												6		11	

REVISIONS				BAHMAN BEHZADI, P.E. P.E. NO.: 53636 DEWBERRY ENGINEERS INC. 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803	 OSCEOLA COUNTY	COUNTY PROJECT NO.	TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			447605-1-38-01		L-3

LIGHTING LEGEND


-  PROPOSED GROUND MOUNT LIGHT POLE (WITH CONCRETE APRON AND PULL BOX) WITH 279 WATT LIGHT EMITTING DIODE (LED) LUMINAIRE, 10' ARM LENGTH, AND 40' MOUNTING HEIGHT. INCLUDES PROPOSED PULL BOX. AEL PART NUMBER: ATB2 P605 MVOLT R3.
-  PROPOSED 279 WATT LIGHT EMITTING DIODE (LED) BRACKET ARM LUMINAIRE, MOUNTED ON EXISTING OR NEW POWER POLE, 10' ARM LENGTH, AND 40' MOUNTING HEIGHT. INCLUDES PROPOSED PULL BOX WITH APRON. AEL PART NUMBER: ATB2 P605 MVOLT R3.
-  PROPOSED PULL BOX WITH APRON
-  2" CONDUIT, OPEN TRENCH
-  2" CONDUIT, DIRECTIONAL BORE
- BOS BACK OF SIDEWALK
- FOC FACE OF CURB
- EOTL EDGE OF TRAVEL LANE

GENERAL NOTES

1. ENSURE PROPOSED WORK IS CONDUCTED WITHIN THE EXISTING RIGHT-OF-WAY AND EMPLOY A FLORIDA LICENSED SURVEYOR FOR ANY AREAS WHERE RIGHT-OF-WAY VERIFICATION IS DEEMED NECESSARY.
2. LIGHT POLE LOCATIONS ARE CONSIDERED APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
3. CONTACT THE MAINTAINING AGENCY TO CONFIRM POLE SEQUENCING NAME AND NUMBER.
4. ANY REQUIRED TREE PRUNING SHALL MAINTAIN OVERALL CANOPY BALANCE AND STRUCTURAL INTEGRITY OF THE TREE. TREE TRIMMING SHALL ADHERE TO ANSI A300.
5. DUKE ENERGY WILL FURNISH AND INSTALL THE FOLLOWING: LUMINAIRES AND CONDUCTORS TO POWER THE LIGHTING SYSTEM FROM THEIR GRID.

CONVENTIONAL ROUNDABOUT LIGHTING DESIGN CRITERIA

- AVERAGE INITIAL INTENSITY 1.5 HORIZZONTAL FOOT CANDLES
- UNIFORMITY AVG./MIN. 4:1 OR LESS
MAX./MIN. 10:1 OR LESS
- VEILING LUMINANCE RATIO 0.3:1 OR LESS
- DESIGN WIND SPEED 140 MPH (OSCEOLA COUNTY)

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DATE	DESCRIPTION	DATE	DESCRIPTION			447605-1-38-01		L-4

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POLE DATA

POLE NO.	STATION OFFSET/BASELINE	POLE LOCATION	MOUNTING TYPE	FOUNDATION TYPE	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	COLOR	PAY ITEM
L-1	117+16, 16' RT/MARIGOLD AVE	20' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-2	118+65, 46' LT/MARIGOLD AVE	17' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-3	120+10, 39' RT/MARIGOLD AVE	13' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-4	120+87, 66' RT/MARIGOLD AVE	30' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-5	305+93, 38' LT/PEABODY RD	15' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-6	302+94, 34' RT/PEABODY RD	18' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-7	122+25, 66' RT/MARIGOLD AVE	12' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-8	122+95, 54' LT/MARIGOLD AVE	36' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-9	153+02, 14' RT/MARIGOLD AVE	20' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-10	154+58, 43' LT/MARIGOLD AVE	14' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-11	156+03, 54' RT/MARIGOLD AVE	7' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-12	156+69, 55' RT/MARIGOLD AVE	9' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-13	401+92, 43' LT/LAUREL AVE	14' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-14	405+80, 60' LT/LAUREL AVE	32' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-15	406+85, 15' LT/LAUREL AVE	20' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-16	402+69, 27' RT/LAUREL AVE	4' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-17	158+11, 73' RT/MARIGOLD AVE	51' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-18	158+30, 64' LT/MARIGOLD AVE	28' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-19	159+00, 54' LT/MARIGOLD AVE	11' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-20	160+40, 22' RT/LAUREL AVE	26' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-21	167+32, 63' LT/MARIGOLD AVE	33' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-22	170+62, 67' RT/MARIGOLD AVE	46' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-23	173+35, 63' LT/MARIGOLD AVE	34' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-24	195+53, 41' RT/MARIGOLD AVE	19' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-25	197+93, 36' RT/MARIGOLD AVE	25' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-26	198+79, 68' RT/MARIGOLD AVE	32' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-27	505+89, 36' LT/SAN LORENZO RD	25' FROM BOS	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-28	200+12, 72' RT/MARIGOLD AVE	24' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13
L-29	201+04, 63' LT/MARIGOLD AVE	33' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	281	40'	GRAY	715-4-15
L-30	204+37, 47' LT/MARIGOLD AVE	18' FROM EOTL	SHOULDER	FDOT STANDARD DRILL SHAFT	10'	279	40'	GRAY	715-4-13

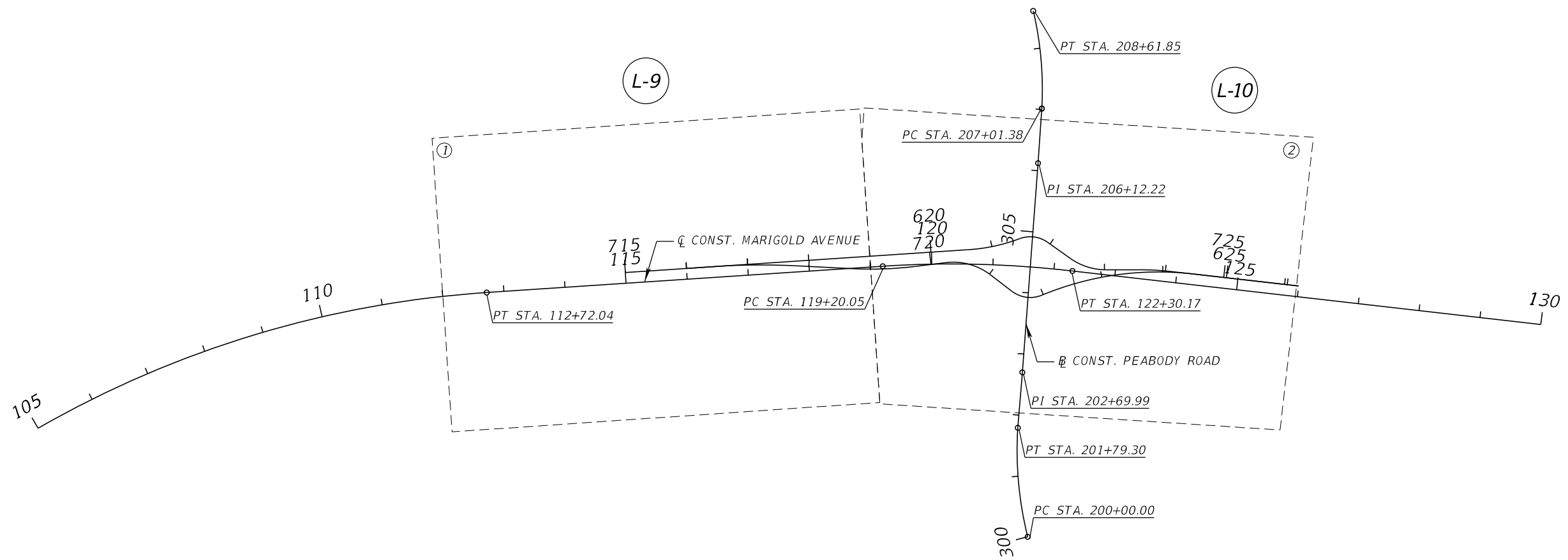
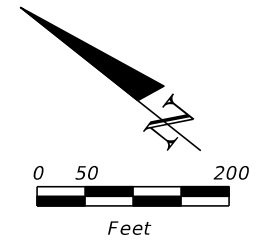
LEGEND	
BOS	BACK OF SIDEWALK
EOTL	EDGE OF TRAVEL LANE


POLE DATA

POLE NO.	STATION OFFSET/BASELINE	POLE LOCATION	MOUNTING TYPE	FOUNDATION TYPE	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	COLOR	PAY ITEM
M-1	121+14, 73' LT/MARIGOLD AVE	16' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-4-13
M-2	122+09, 73' LT/MARIGOLD AVE	19' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-4-13
M-3	124+31, 70' LT/MARIGOLD AVE	40' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-5-31
M-4	156+80, 72' LT/MARIGOLD AVE	25' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-5-21
M-5	165+10, 72' LT/MARIGOLD AVE	43' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-5-31
M-6	167+92, 68' RT/MARIGOLD AVE	53' FORM BOS	SHOULDER	N/A	10'	279	40'	GRAY	715-5-31
M-7	169+51, 74' LT/MARIGOLD AVE	44' FORM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-5-31
M-8	171+10, 73' LT/MARIGOLD AVE	43' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-5-31
M-9	194+06, 73' LT/MARIGOLD AVE	43' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-5-31
M-10	196+82, 73' LT/MARIGOLD AVE	43' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-5-31
M-11	198+99, 76' LT/MARIGOLD AVE	20' FROM EOTL	SHOULDER	N/A	10'	279	40'	GRAY	715-4-13
M-12	502+69, 36' LT/SAN LORENZO RD	24' FORM BOS	SHOULDER	N/A	10'	279	40'	GRAY	715-4-13
M-13	200+15, 74' LT/MARIGOLD AVE	28' FROM EOTL	SHOULDER	N/A	10'	280	40'	GRAY	715-4-14
M-14	202+79, 74' LT/MARIGOLD AVE	36' FROM EOTL	SHOULDER	N/A	10'	282	40'	GRAY	715-5-31

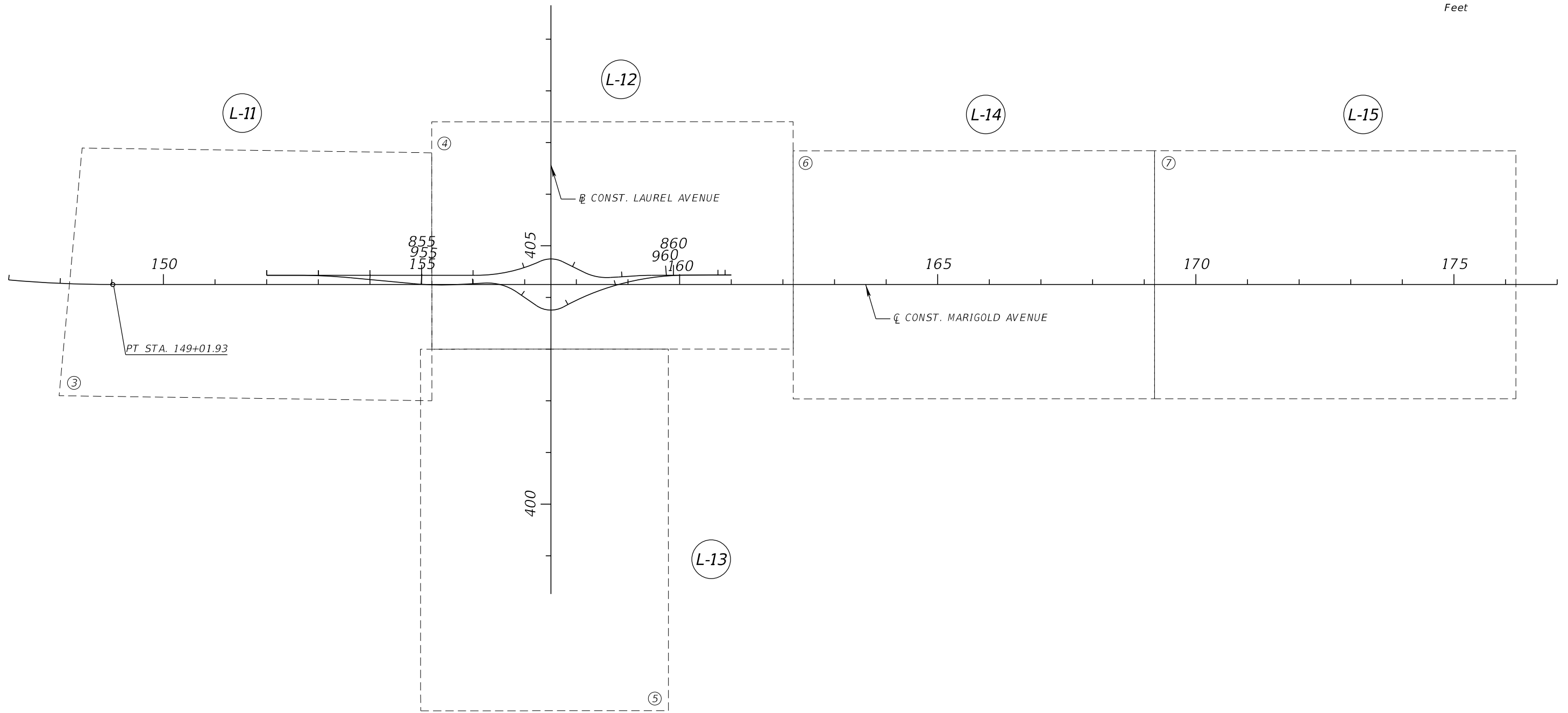
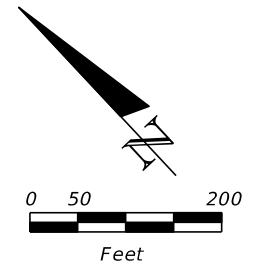
REVISIONS				BAHMAN BEHZADI, P.E. P.E. NO.: 53636 DEWBERRY ENGINEERS INC. 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803	 OSCEOLA COUNTY	COUNTY PROJECT NO. 447605-1-38-01	SHEET NO. L-5
DATE	DESCRIPTION	DATE	DESCRIPTION				

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DATE	DESCRIPTION	DATE	DESCRIPTION			447605-1-38-01		L-6

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REVISIONS			
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800 NORTH MAGNOLIA AVENUE,
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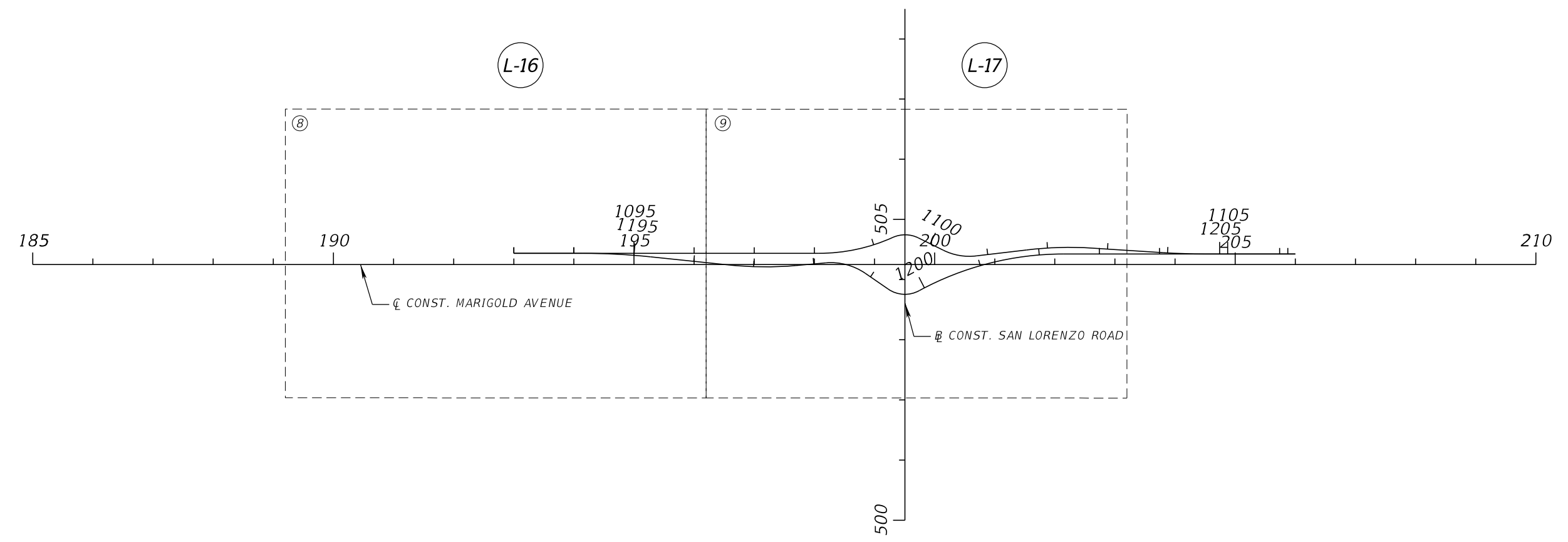
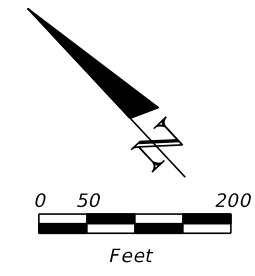



COUNTY PROJECT NO.
447605-1-38-01

PROJECT LAYOUT (2)

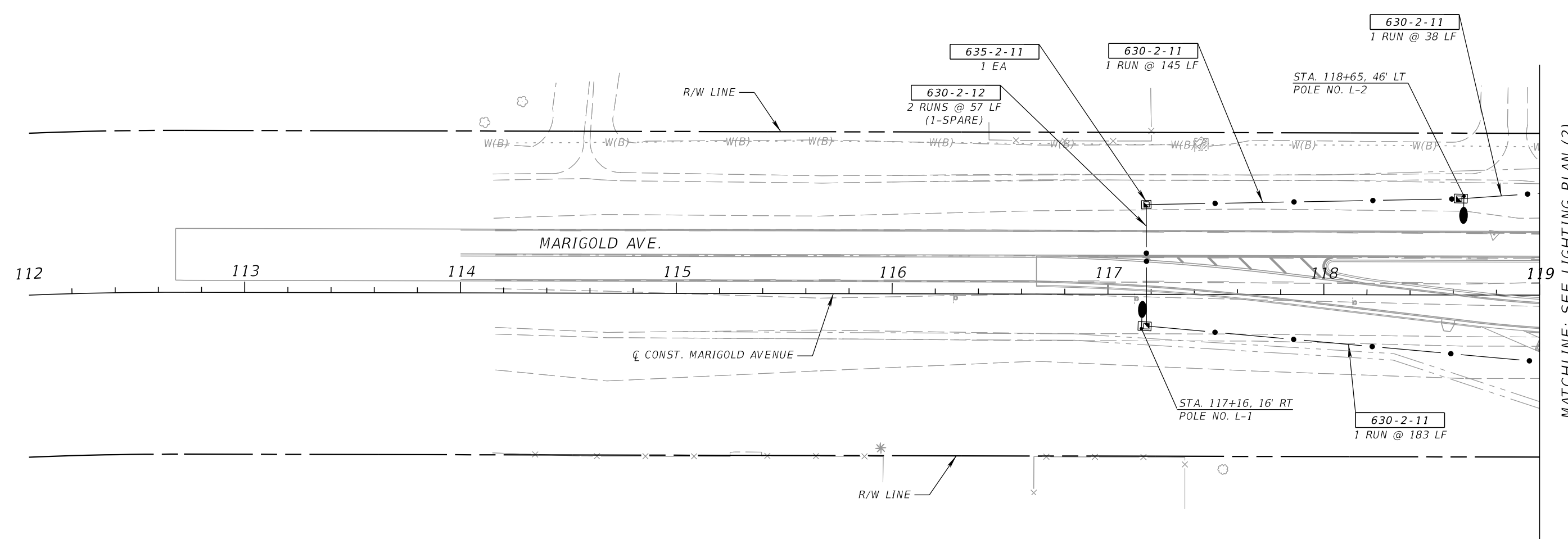
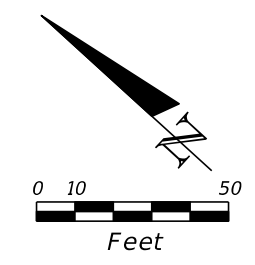
SHEET NO.
L-7

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DATE	DESCRIPTION	DATE	DESCRIPTION			447605-1-38-01		L-8

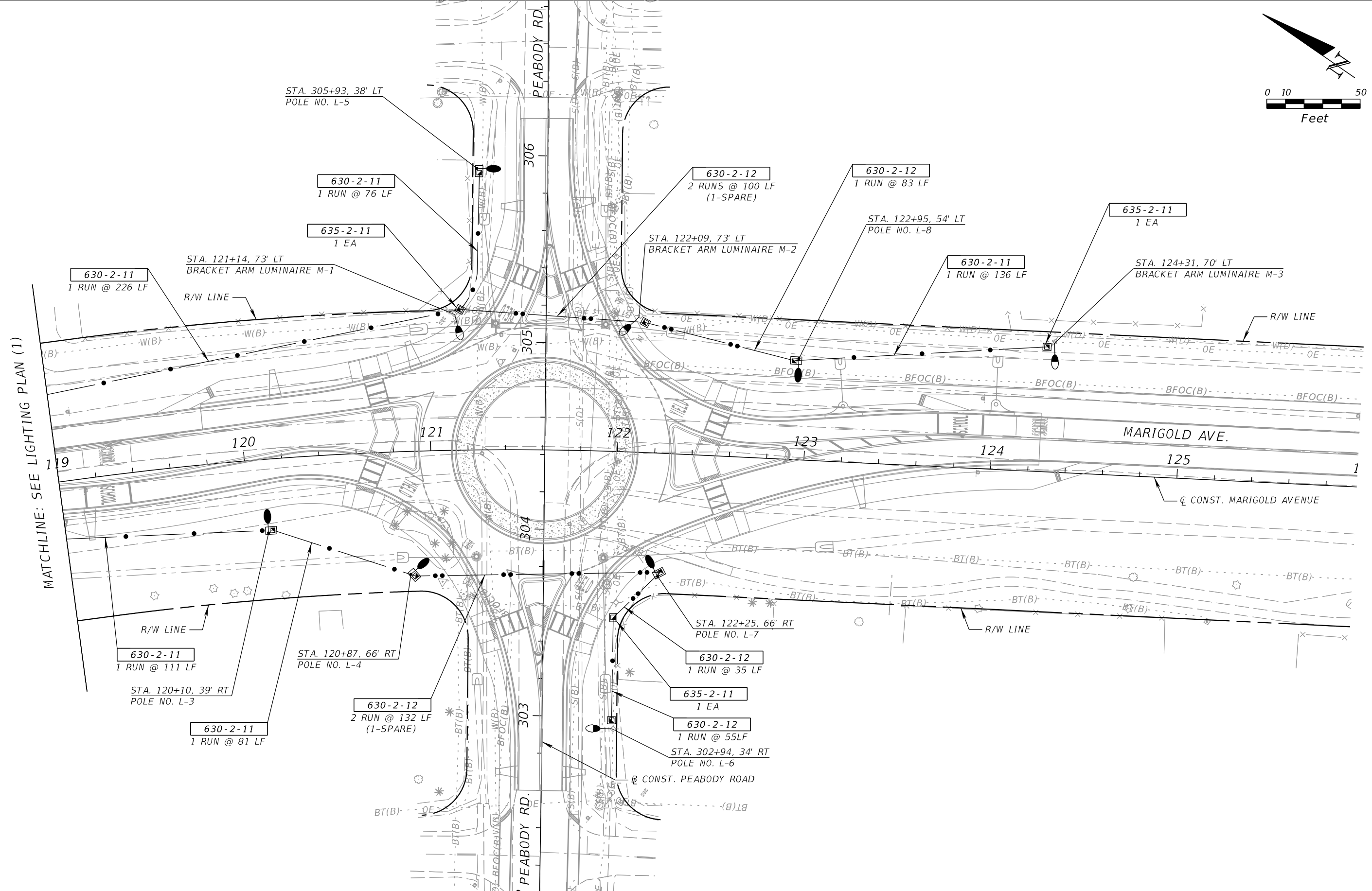
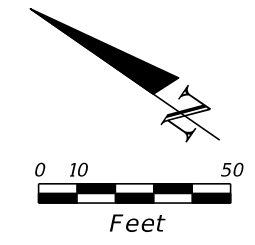
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MATCHLINE: SEE LIGHTING PLAN (2)

REVISIONS				BAHMAN BEHZADI, P.E. P.E. NO.: 53636 DEWBERRY ENGINEERS INC. 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803	 OSCEOLA COUNTY	COUNTY PROJECT NO.	<i>LIGHTING PLAN (1)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			447605-1-38-01		L-9

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MATCHLINE: SEE LIGHTING PLAN (1)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 800 NORTH MAGNOLIA AVENUE,
 SUITE 1000
 ORLANDO, FLORIDA 32803

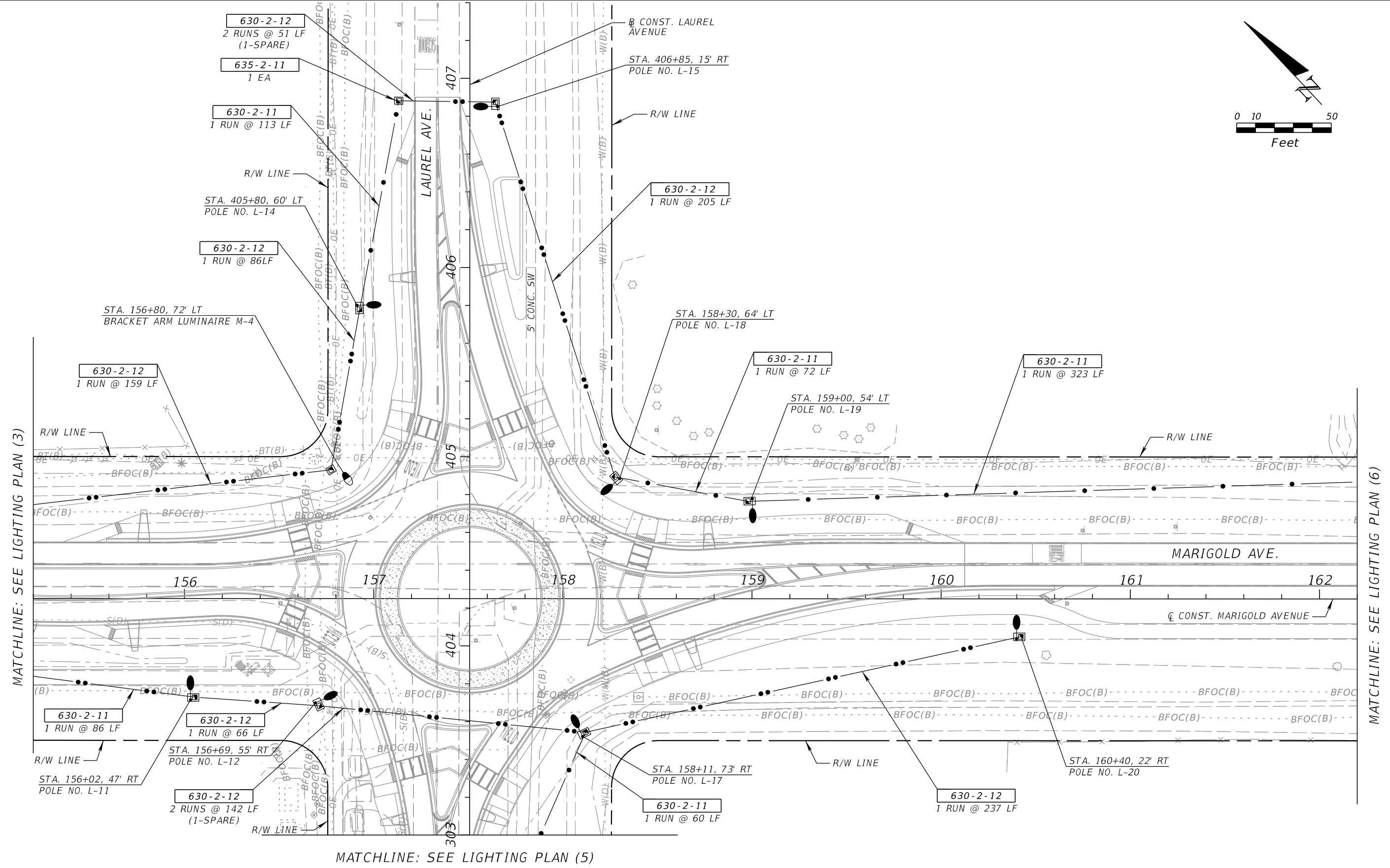
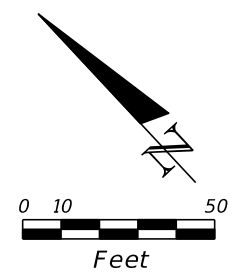


COUNTY PROJECT NO.
 447605-1-38-01

LIGHTING PLAN (2)

SHEET NO.
 L-10

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MATCHLINE: SEE LIGHTING PLAN (3)

MATCHLINE: SEE LIGHTING PLAN (6)

MATCHLINE: SEE LIGHTING PLAN (5)

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 ORLANDO, FLORIDA 32803

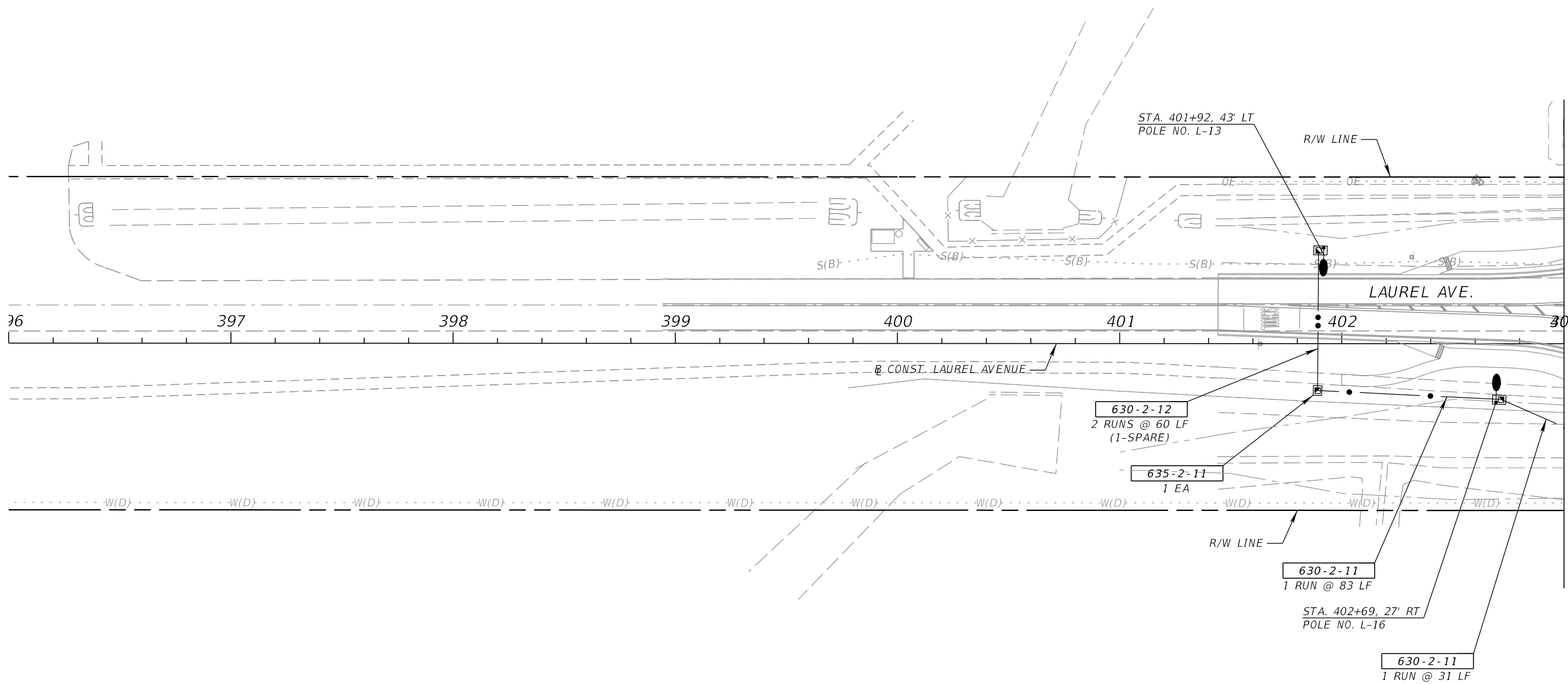
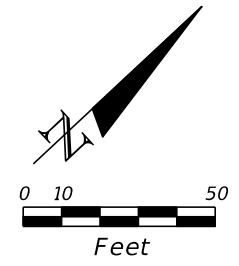


COUNTY PROJECT NO.
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LIGHTING PLAN (4)

SHEET NO.
 L-12

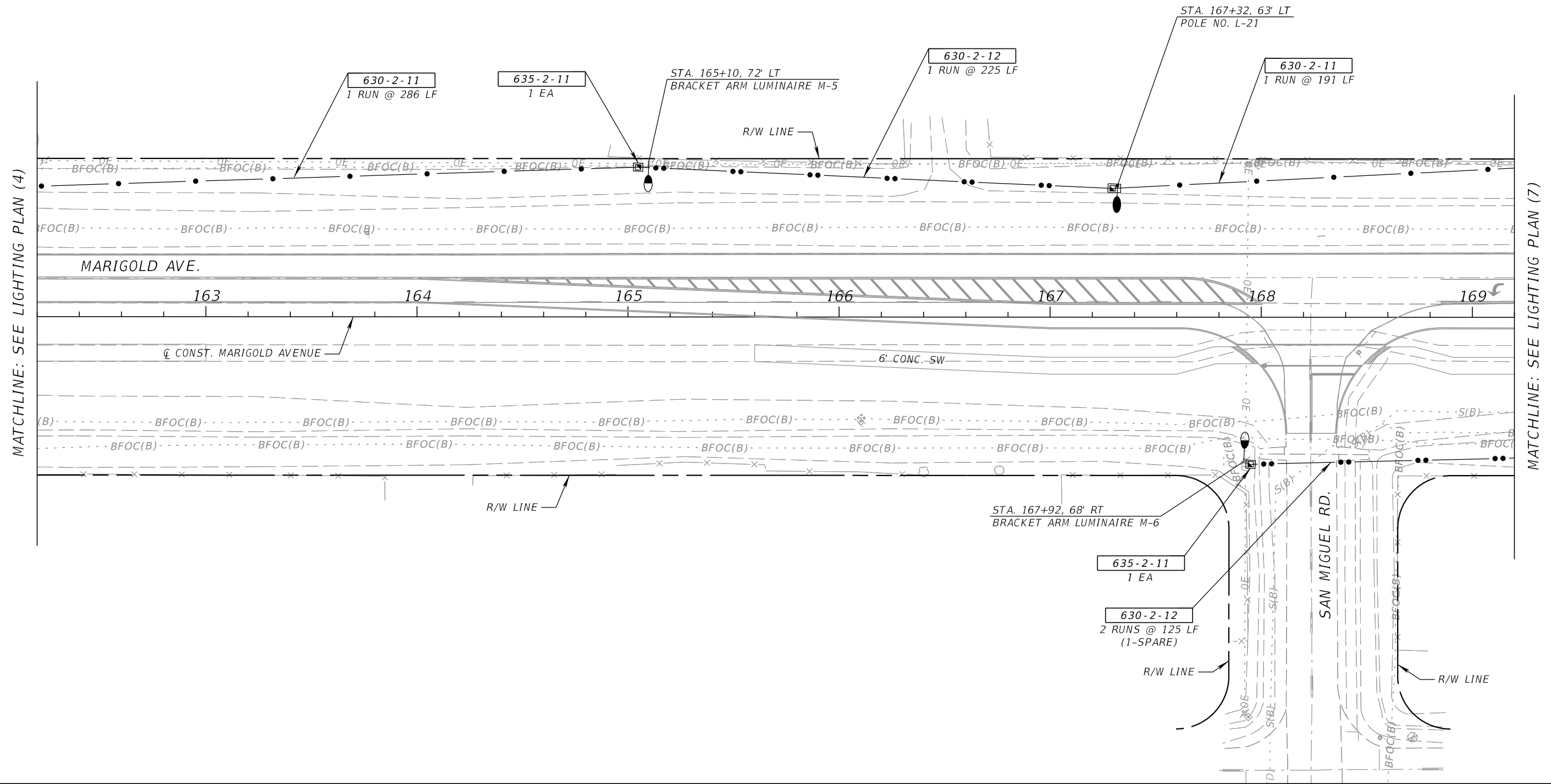
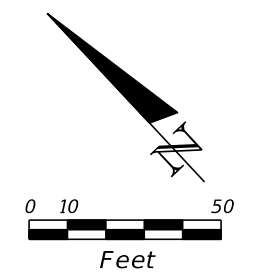
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MATCHLINE: SEE LIGHTING PLAN (4)

REVISIONS				BAHMAN BEHZADI, P.E. P.E. NO.: 53636 DEWBERRY ENGINEERS INC. 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803	 OSCEOLA COUNTY	COUNTY PROJECT NO.	<i>LIGHTING PLAN (5)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			447605-1-38-01		L-13

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MATCHLINE: SEE LIGHTING PLAN (4)

MATCHLINE: SEE LIGHTING PLAN (7)

REVISIONS			
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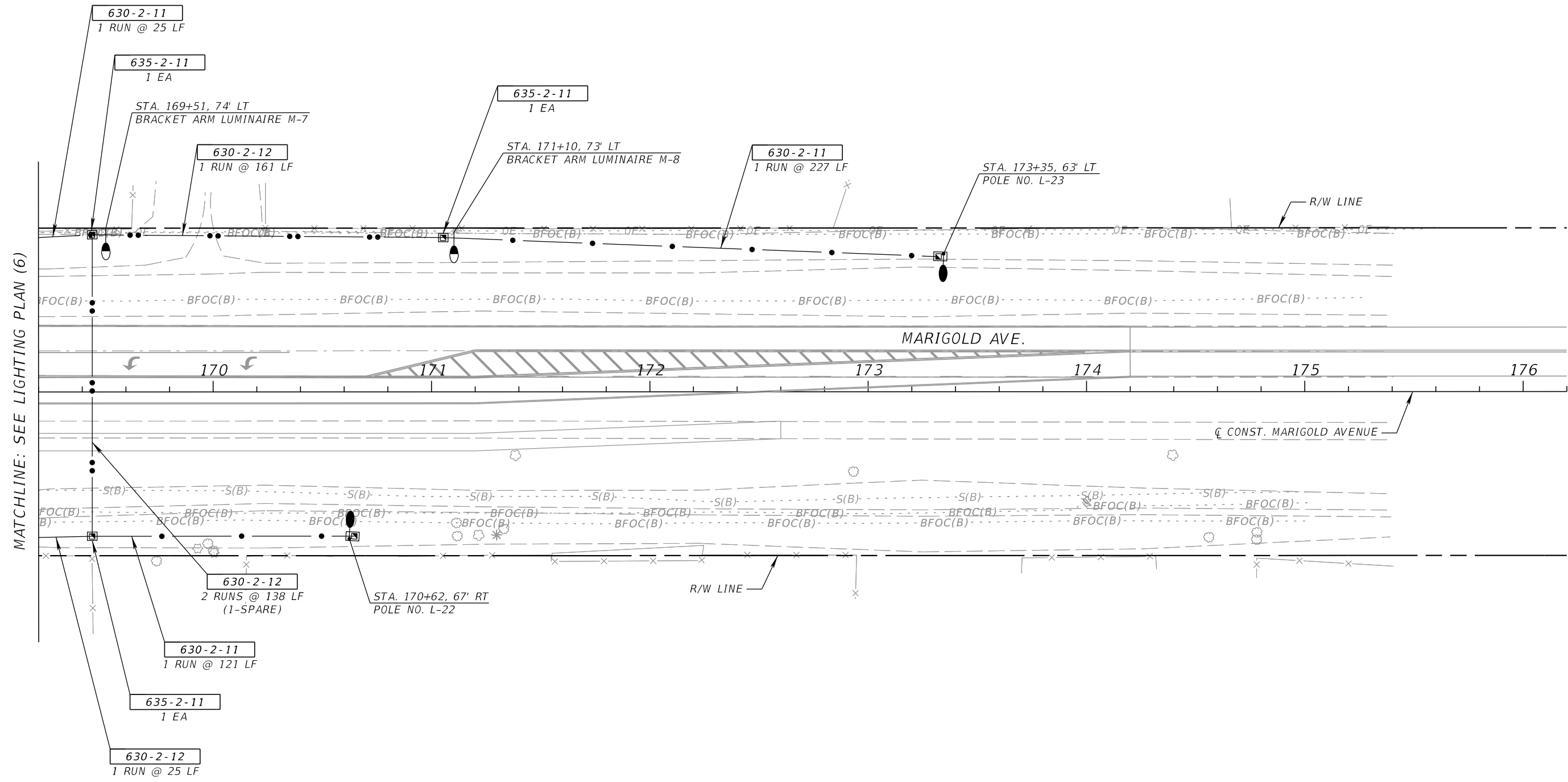
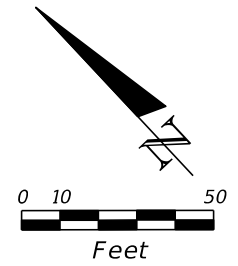


COUNTY PROJECT NO.
447605-1-38-01


LIGHTING PLAN (6)

SHEET NO.
L-14

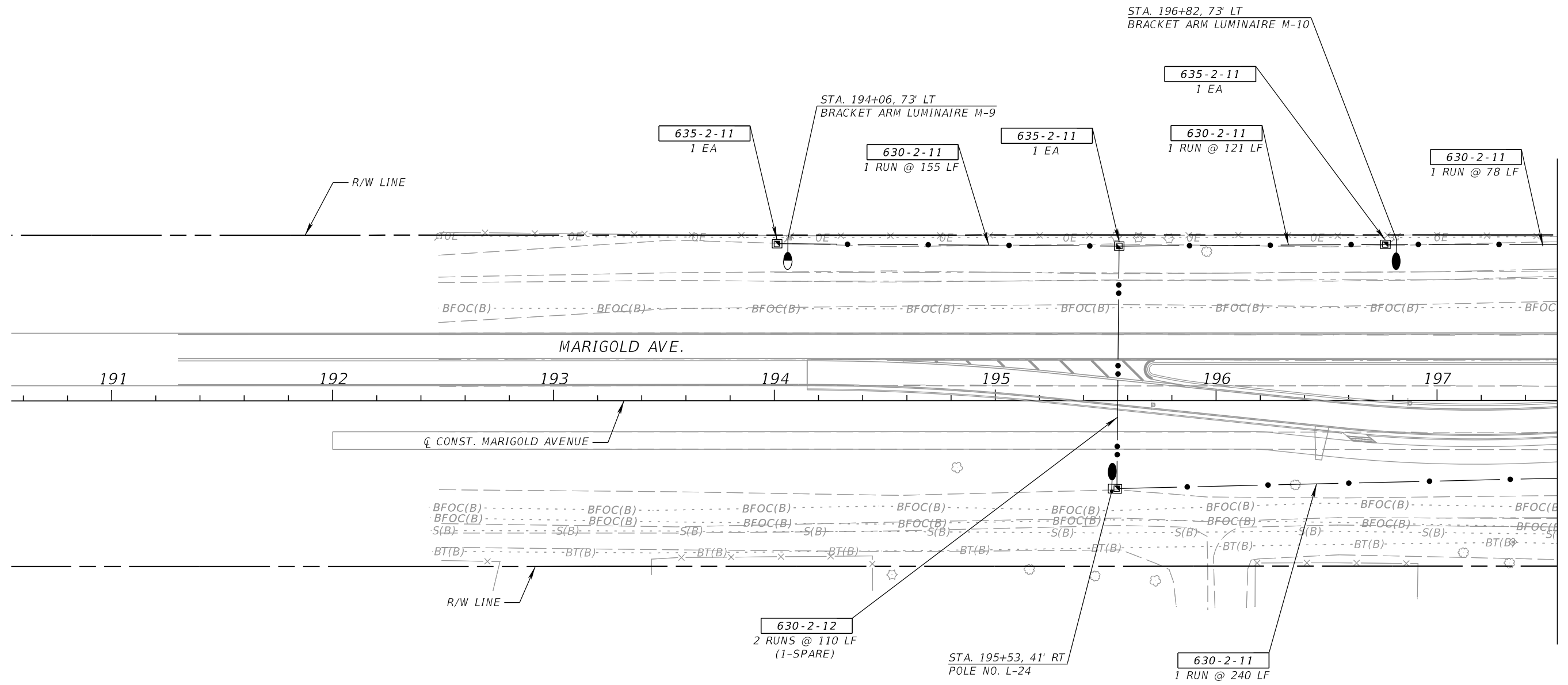
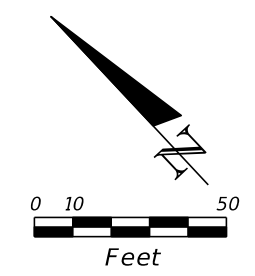
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MATCHLINE: SEE LIGHTING PLAN (6)

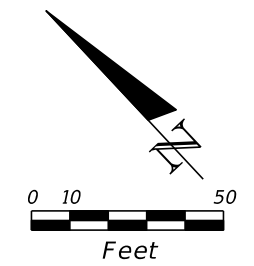
REVISIONS				BAHMAN BEHZADI, P.E. P.E. NO.: 53636 DEWBERRY ENGINEERS INC. 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803		COUNTY PROJECT NO.	<i>LIGHTING PLAN (7)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			447605-1-38-01		L-15

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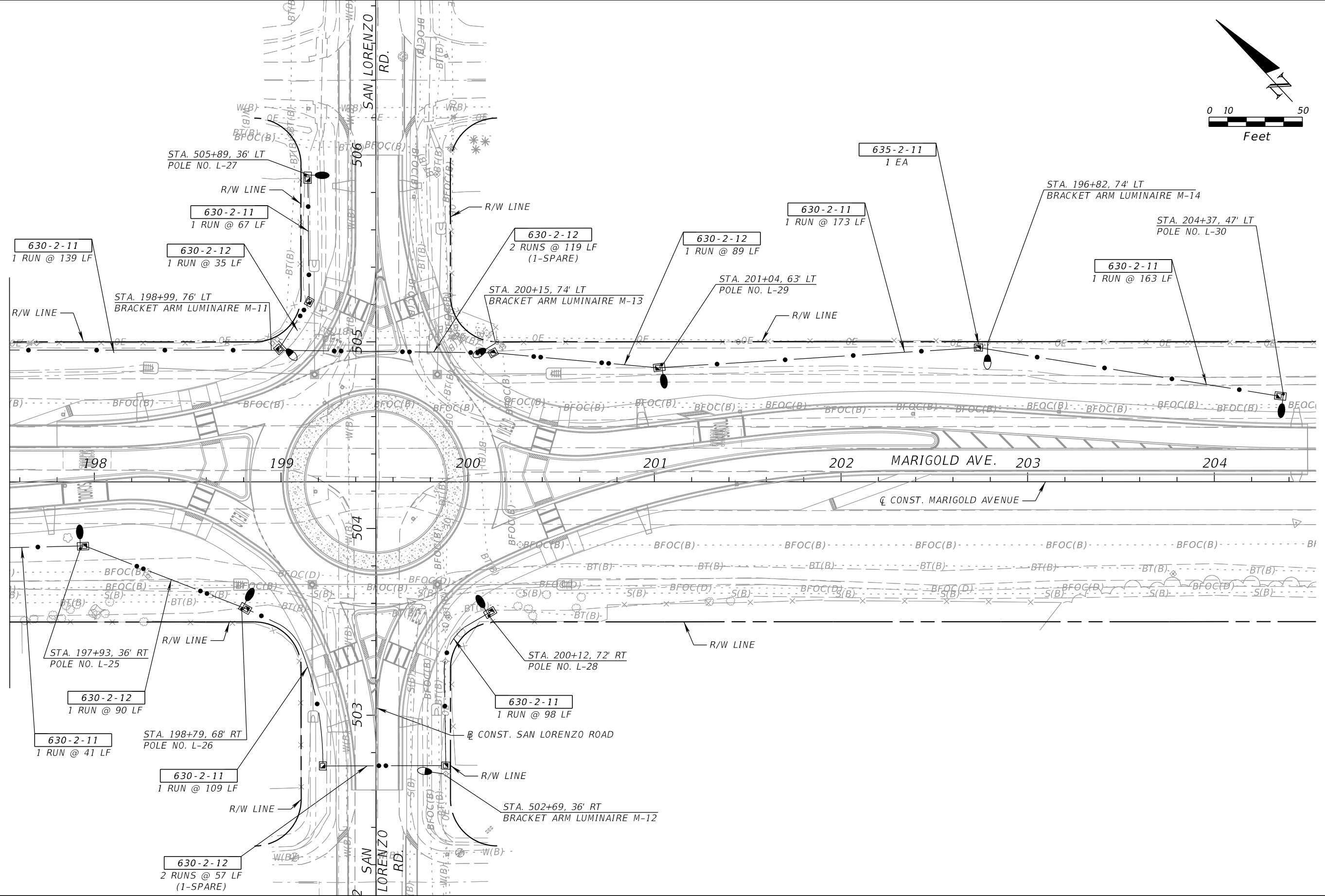


REVISIONS				BAHMAN BEHZADI, P.E. P.E. NO.: 53636 DEWBERRY ENGINEERS INC. 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803	 OSCEOLA COUNTY	COUNTY PROJECT NO. 447605-1-38-01	LIGHTING PLAN (8)	SHEET NO. L-16
DATE	DESCRIPTION	DATE	DESCRIPTION					

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MATCHLINE: SEE LIGHTING PLAN (8)



REVISIONS	
DATE	DESCRIPTION

BAHMAN BEHZADI, P.E.
 P.E. NO.: 53636
 DEWBERRY ENGINEERS INC.
 800 NORTH MAGNOLIA AVENUE,
 SUITE 1000
 ORLANDO, FLORIDA 32803



COUNTY PROJECT NO.
447605-1-38-01

LIGHTING PLAN (9)

SHEET NO.
L-17