

**CONTRACT PLANS COMPONENTS**

ROADWAY  
SIGNING AND PAVEMENT MARKING  
LIGHTING

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLANS**

FINANCIAL PROJECT ID 417540-6-52-01

COLLIER COUNTY (03080)

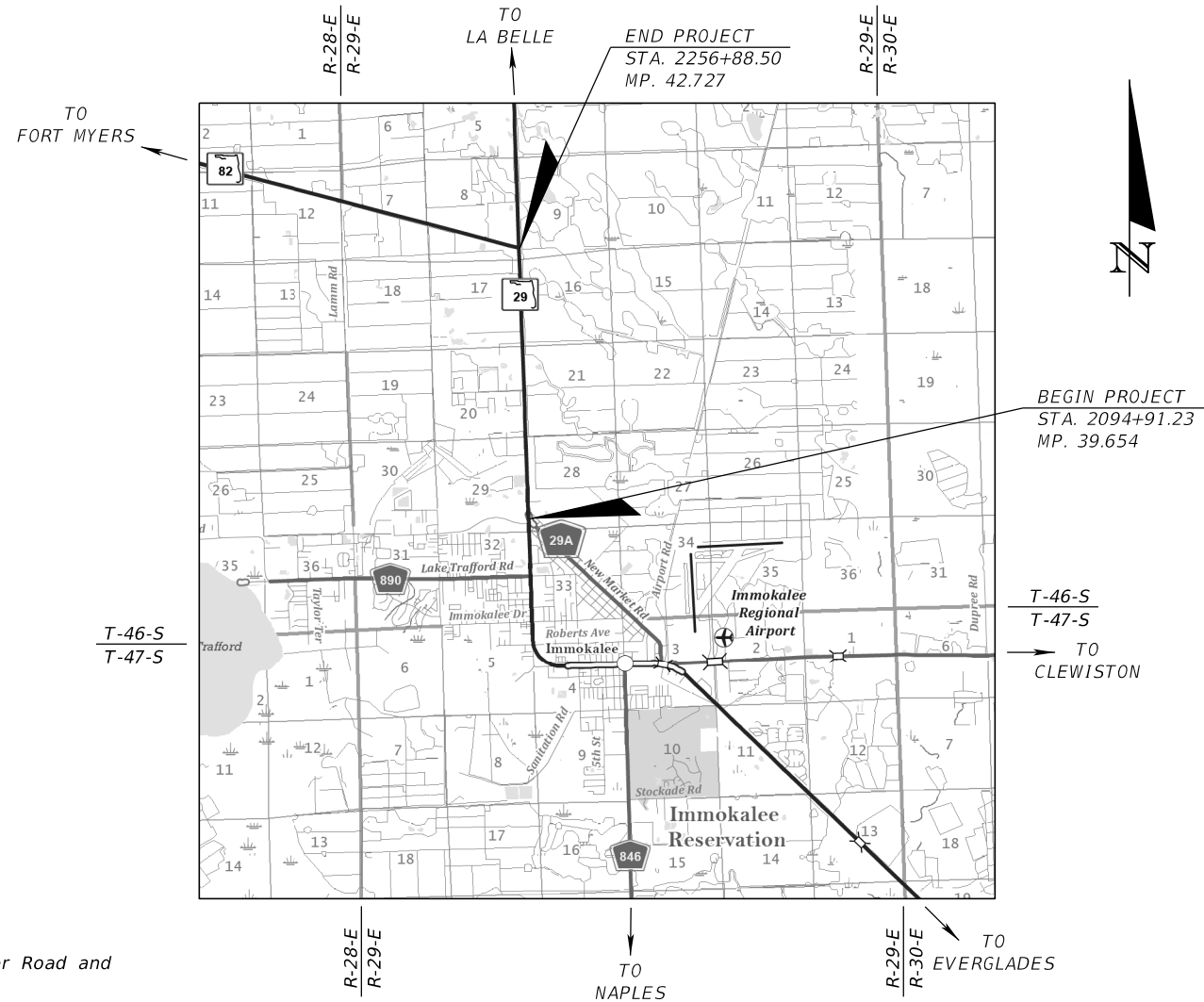
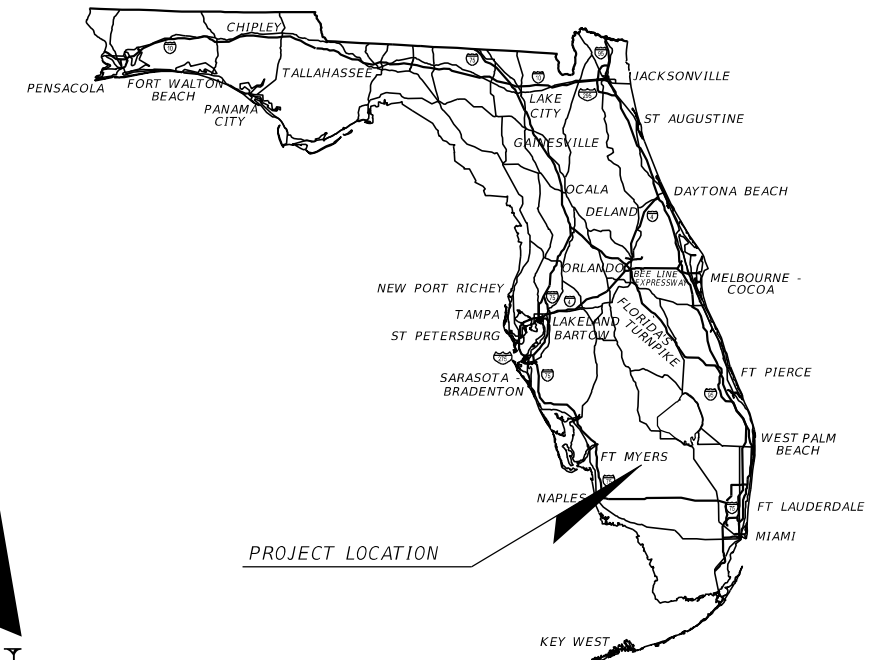
STATE ROAD NO. 29

FROM SOUTH OF NEW MARKET ROAD TO SR 82

TWO TO FOUR LANE WIDENING

**INDEX OF LIGHTING PLANS**

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	GENERAL NOTES AND LEGEND
L-4	LIGHTING DATA TABLE
L-5 - L-14	LIGHTING PLAN
L-15 - L-16	SERVICE POINT DETAILS



PROJECT LOCATION

PHASE IV SUBMITTAL  
MARCH 2026

**LIGHTING PLANS  
ENGINEER OF RECORD:**

JOHN ALEXANDER RAMON, P.E.  
P.E. LICENSE NUMBER 97249  
FALLER, DAVIS & ASSOCIATES, INC  
1150 ASSEMBLY DRIVE, SUITE 400  
TAMPA, FLORIDA 33607-4874  
(813) 261-5136  
CONTRACT NO.: CA420  
VENDOR NO.: F592594956001

**FDOT PROJECT MANAGER:**

CHRIS SPEESE

**GOVERNING STANDARD PLANS:**

Florida Department of Transportation, FY2026-27 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

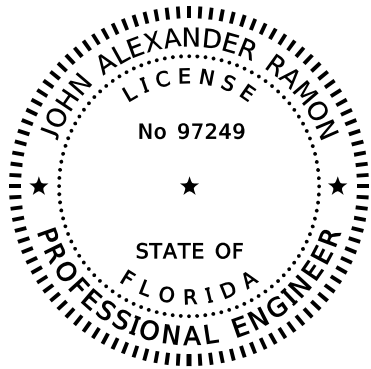
Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: NA

**GOVERNING STANDARD SPECIFICATIONS:**

Florida Department of Transportation, FY2026-27 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
E1X94	27	L-1



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY



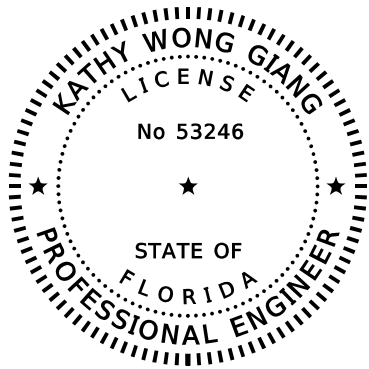
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

FALLER, DAVIS & ASSOCIATES, INC  
1150 ASSEMBLY DRIVE, SUITE 400  
TAMPA, FLORIDA 33607-4874  
JOHN ALEXANDER RAMON, P.E. NO.: 97249

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>
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	GENERAL NOTES AND LEGEND
L-4	LIGHTING DATA TABLE
L-5 - L-14	LIGHTING PLAN



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

KNK ENGINEERING CONSULTING CORP.  
3001 NORTH ROCKY POINT DR., SUITE 200  
TAMPA, FLORIDA 33607  
KATHY WONG GIANG, P.E. NO. 53246

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>
L-2	SIGNATURE SHEET
L-15 - L-16	SERVICE POINT DETAILS

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X:\FDOT\41754065201\Lighting\SIGNLT01.dgn

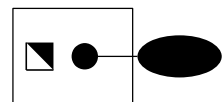
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 29	COLLIER	417540-6-52-01	L-2

*SIGNATURE SHEET*

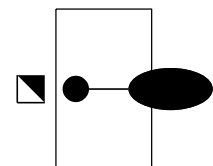
**LEGEND**

**DESCRIPTION**

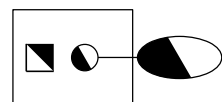
**GENERAL NOTES**



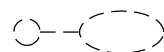
PROPOSED STANDARD LIGHT POLE. STANDARD SHAFT FOUNDATION.  
SEE POLE DATA TABLE FOR FOUNDATIONS WITHIN SLOPE STEEPER THAN 1:4.



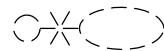
PROPOSED STANDARD LIGHT POLE. STANDARD SPREAD FOOTING FOUNDATION.



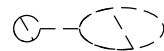
RELOCATED LIGHT POLE. STANDARD SHAFT FOUNDATION.  
SEE POLE DATA TABLE FOR FOUNDATIONS WITHIN SLOPE STEEPER THAN 1:4.



EXISTING LIGHT POLE TO REMAIN.



EXISTING LIGHT POLE TO BE REMOVED.



EXISTING LIGHT POLE TO BE RELOCATED.



PROPOSED ELECTRIC SERVICE METER AND DISCONNECT.



PROPOSED LOAD CENTER.



PROPOSED PULL BOX.



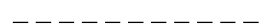
EXISTING PULL BOX TO REMAIN.



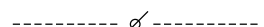
OPEN TRENCH CONDUIT.



DIRECTIONAL BORE CONDUIT.



EXISTING CONDUIT TO REMAIN.



EXISTING CONDUCTORS TO BE REMOVED AND CONDUIT ABANDONED IN PLACE.

1. MAINTAINING AGENCY: COLLIER COUNTY
2. CONNECT PROPOSED LIGHT POLES TO THE EXISTING LIGHTING CIRCUIT AT EXISTING LIGHT POLES AS SHOWN IN PLANS. COORDINATE WITH COLLIER COUNTY AT LEAST TWO WEEKS PRIOR TO PERFORMING WORK TO OBTAIN INFORMATION NECESSARY TO COMPLETE THIS TASK.
3. COORDINATE WITH COLLIER COUNTY AT (239) 252-8260 BEFORE REMOVAL OF EXISTING DECORATIVE LIGHT POLES TO CONFIRM WHICH POLES ARE TO BE SALVAGED AND STORED FOR THE CRA (COMMUNITY REDEVELOPMENT AGENCY).

**CORRIDOR LIGHTING DESIGN CRITERIA**

DESIGN WIND SPEED 160 MPH  
 AVERAGE INITIAL ILLUMINATION 1.5 STD. H.F.C.  
 AVERAGE TO MIN. 4:1 OR LESS  
 MAX. TO MIN. 10:1 OR LESS  
 VEILING LUMINANCE RATIO 0.3:1 OR LESS

**ROUNDBOUT NEW CONSTRUCTION LIGHTING DESIGN CRITERIA**

DESIGN WIND SPEED 160 MPH  
 AVERAGE INITIAL ILLUMINATION 3.0 STD. H.F.C.; 1.5 STD. V.F.C.  
 AVERAGE TO MIN. 1.5 MIN. H.F.C.; 1.2 MIN. V.F.C.  
 MAX. TO MIN. 4:1 OR LESS  
 VEILING LUMINANCE RATIO 10:1 OR LESS

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

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES AND LEGEND	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-3
						SR 29	COLLIER	417540-6-52-01		

LIGHTING DATA TABLE

LOCATION	POLE NO.	STATION/OFFSET	ROADWAY SETBACK	MAINTENANCE RESPONSIBILITY	POLE TYPE	ARM LENGTH	MOUNTING HEIGHT	ORIENT. (DEG.)	LUMINAIRE TYPE	LUMINAIRE MODEL	LUMEN OUTPUT	IES DIST. PATTERN	CORRELATED COLOR TEMPERATURE	INPUT WATTAGE	INPUT VOLTAGE	LOAD CENTER	CIRCUIT NUMBER	FOUNDATION TYPE	PAY ITEM NUMBER	
NEW MARKET / WESTCLOX	POLE 1	2093+05, 53' RT.	34.6'	COLLIER COUNTY	STANDARD	12'	45'	90	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-2	SHAFT	0715 61442	
	POLE 2	2094+22, 49' LT.	29.7'	COLLIER COUNTY	STANDARD	12'	45'	270	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-1	SHAFT	0715 61442	
	POLE 3	2095+09, 51' RT.	31.7'	COLLIER COUNTY	STANDARD	12'	45'	90	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-2	SHAFT	0715 61442	
	POLE 4	2096+08, 48' LT.	28.4'	COLLIER COUNTY	STANDARD	12'	45'	270	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-1	SHAFT	0715 61442	
	POLE 5	2096+55, 48' RT.	26.8'	COLLIER COUNTY	STANDARD	12'	45'	85	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-2	SHAFT	0715 61442	
	POLE 6	2097+40, 60' LT.	34.3'	COLLIER COUNTY	STANDARD	12'	45'	270	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-1	SHAFT	0715 61442	
	POLE 7	2098+59, 75' RT.	42.8'	COLLIER COUNTY	STANDARD	12'	45'	90	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-2	SHAFT	0715 61442	
	POLE 8	2098+64, 62' LT.	32.0'	COLLIER COUNTY	STANDARD	12'	45'	270	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-1	SHAFT	0715 61442	
	POLE 9	2099+33, 79' RT.	34.2'	COLLIER COUNTY	STANDARD	12'	45'	60	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	* POLE 10	2099+56, 65' LT.	22.6'	COLLIER COUNTY	STANDARD	12'	45'	290	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	POLE 11	2099+69, 133' RT.	32.8'	COLLIER COUNTY	STANDARD	12'	45'	15	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	* POLE 12	2100+06, 94' LT.	27.8'	COLLIER COUNTY	STANDARD	12'	45'	315	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	* POLE 13	2101+27, 114' RT.	24.1'	COLLIER COUNTY	STANDARD	12'	45'	130	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	* POLE 14	2101+31, 61' LT.	21.4'	COLLIER COUNTY	STANDARD	12'	45'	205	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	* POLE 15	2102+03, 93' RT.	23.7'	COLLIER COUNTY	STANDARD	12'	45'	110	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	* POLE 16	2101+91, 31' LT.	22.8'	COLLIER COUNTY	STANDARD	12'	45'	270	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	* POLE 17	2103+16, 76' RT.	25.7'	COLLIER COUNTY	STANDARD	12'	45'	95	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	* POLE 18	2103+15, 52' LT.	25.9'	COLLIER COUNTY	STANDARD	12'	45'	275	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	* POLE 19	2104+42, 62' RT.	20.2'	COLLIER COUNTY	STANDARD	12'	45'	90	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	* POLE 20	2104+44, 49' LT.	12.8'	COLLIER COUNTY	STANDARD	12'	45'	265	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	* POLE 21	2105+77, 72' RT.	30.2'	COLLIER COUNTY	STANDARD	0'	45'	90	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61400	
	POLE 22	2105+80, 66' LT.	29.7'	COLLIER COUNTY	STANDARD	0'	45'	270	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SPREAD	0715 61400	
	POLE 23	2101+06, 156' LT.	26.3'	COLLIER COUNTY	STANDARD	12'	45'	180	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	POLE 24	804+10, 51' LT.	27.1'	COLLIER COUNTY	STANDARD	12'	45'	180	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	POLE 25	802+82, 40' LT.	32.0'	COLLIER COUNTY	STANDARD	12'	45'	180	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-3	SHAFT	0715 61442	
	* POLE 26	2100+89, 164' RT.	24.8'	COLLIER COUNTY	STANDARD	12'	45'	150	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	POLE 27	401+32, 63' RT.	24.5'	COLLIER COUNTY	STANDARD	12'	45'	355	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	POLE 28	401+99, 36' LT.	22.8'	COLLIER COUNTY	STANDARD	12'	45'	145	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
	POLE 29	403+21, 38' RT.	8.6'	COLLIER COUNTY	STANDARD	12'	45'	320	LED	ARCHEON	32,620	IV	3000K	279	240/480	A	A-4	SHAFT	0715 61442	
SR 82	* POLE 98	2234+55, 72' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	50'	90	LED	ERL2	30,000	III	4000K	242	240/480	B	B-2	SHAFT	0715 61542	
	* POLE 99	2235+75, 69' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	50'	270	LED	ERL2	30,000	III	4000K	242	240/480	B	B-1	SHAFT	0715 61542	
	* POLE 100	2236+95, 72' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	50'	90	LED	ERL2	30,000	III	4000K	242	240/480	B	B-2	SHAFT	0715 61542	
	* POLE 111	2238+15, 70' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 113	2240+55, 73' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 114	2239+35, 72' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000
	* POLE 115	2242+95, 76' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 116	2241+75, 72' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000
	* POLE 117	2245+35, 77' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 118	2244+15, 74' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000
	* POLE 119	2247+75, 76' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 120	2246+55, 74' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000
	* POLE 121	2250+15, 77' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 122	2248+95, 74' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000
	* POLE 123	2252+55, 77' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 124	2251+35, 74' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000
	* POLE 125	2254+95, 77' LT.	32.8'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
	* POLE 126	2253+75, 75' RT.	30.3'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000
	* POLE 127	2257+35, 73' LT.	28.2'	COLLIER COUNTY	STANDARD	12'	EXIST.	270	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-1	SHAFT	0715 68000
* POLE 128	2256+15, 74' RT.	30.1'	COLLIER COUNTY	STANDARD	12'	EXIST.	90	LED	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	240/480	B	B-2	SHAFT	0715 68000	

\*LIGHT POLE FOUNDATION WITHIN SLOPE STEEPER THAN 1:4

NOTES:  
ROADWAY SETBACK IS MEASURED FROM THE EDGE OF PAVEMENT TO THE CENTER OF THE LIGHT POLE.  
ORIENTATION IS MEASURED COUNTER-CLOCKWISE FROM TRUE NORTH.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE	SHEET NO. L-4
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 29	COLLIER	417540-6-52-01		

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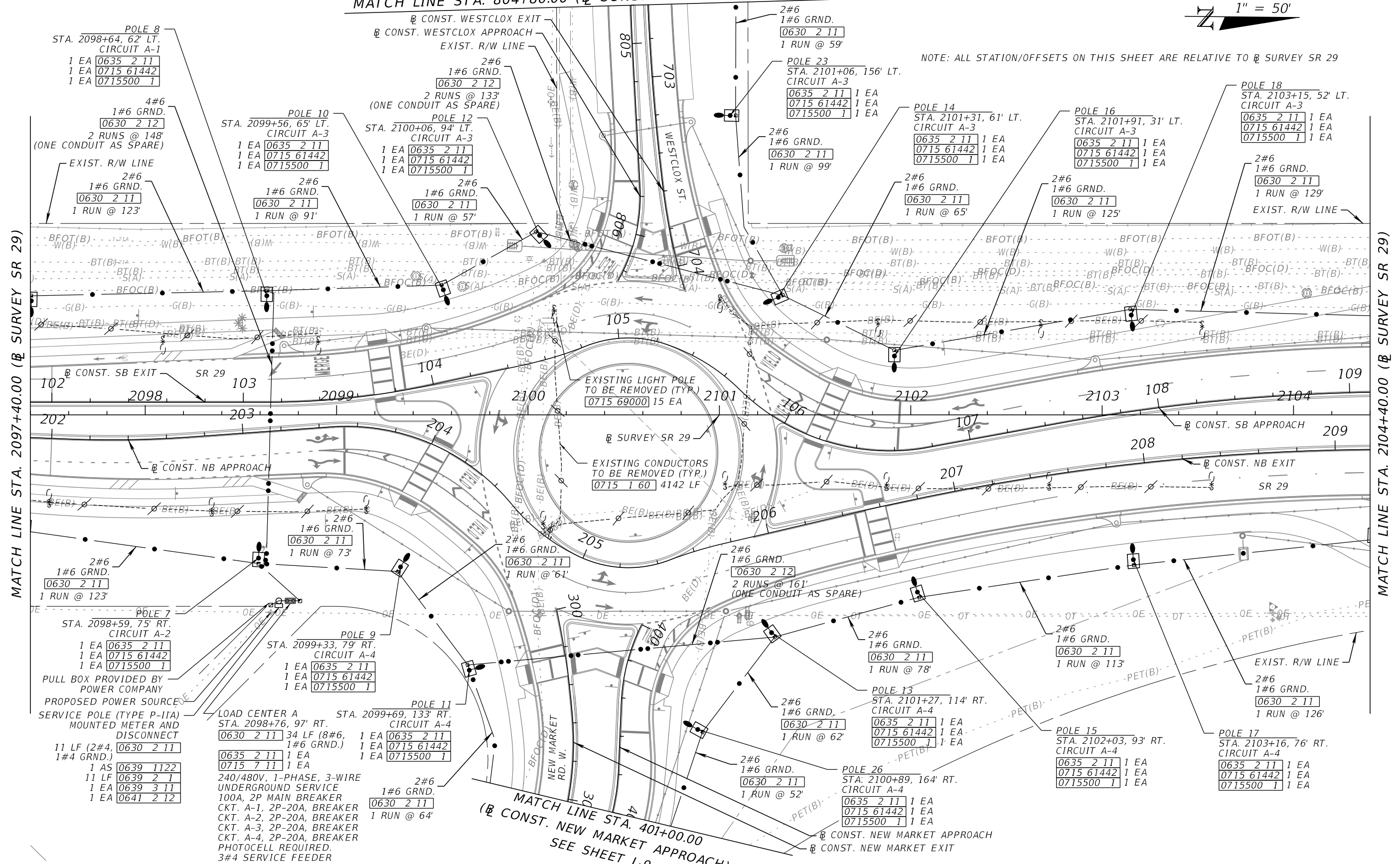
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE STA. 804+80.00 (CONST. WESTCLOX APPROACH) SEE SHEET L-8

1" = 50'

NOTE: ALL STATION/OFFSETS ON THIS SHEET ARE RELATIVE TO SURVEY SR 29



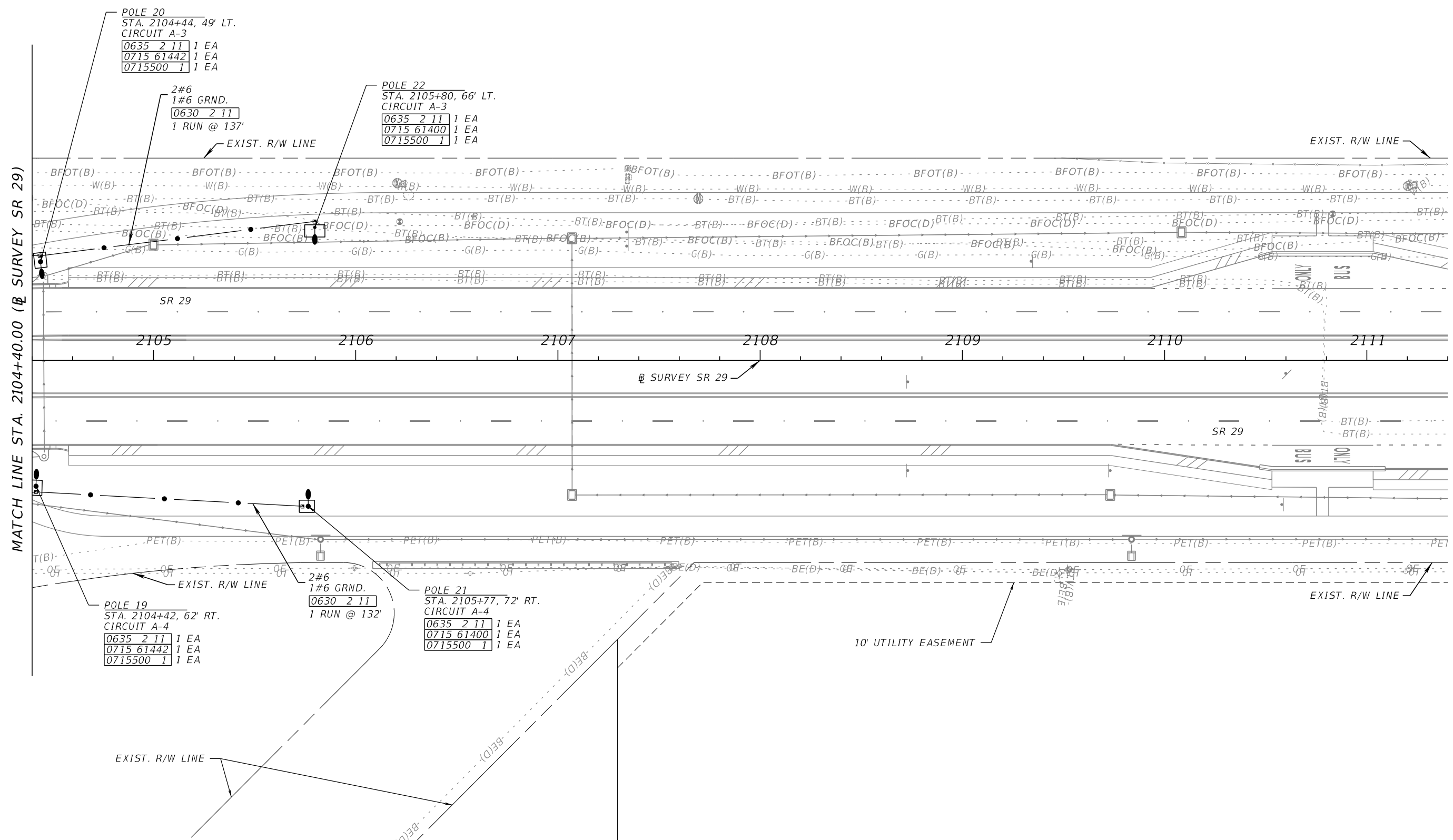
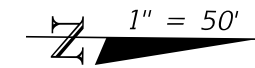
MATCH LINE STA. 2097+40.00 (SURVEY SR 29)

MATCH LINE STA. 2104+40.00 (SURVEY SR 29)

MATCH LINE STA. 401+00.00 (CONST. NEW MARKET APPROACH) SEE SHEET L-9

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874	SR 29	COLLIER	417540-6-52-01	L-6
					<b>LIGHTING PLAN (2)</b>			

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MATCH LINE STA. 2104+40.00 (SEE SURVEY SR 29)

POLE 20  
 STA. 2104+44, 49' LT.  
 CIRCUIT A-3  
 0635 2 11 1 EA  
 0715 61442 1 EA  
 0715500 1 1 EA

2#6  
 1#6 GRND.  
 0630 2 11  
 1 RUN @ 137'

POLE 22  
 STA. 2105+80, 66' LT.  
 CIRCUIT A-3  
 0635 2 11 1 EA  
 0715 61400 1 EA  
 0715500 1 1 EA

POLE 19  
 STA. 2104+42, 62' RT.  
 CIRCUIT A-4  
 0635 2 11 1 EA  
 0715 61442 1 EA  
 0715500 1 1 EA

2#6  
 1#6 GRND.  
 0630 2 11  
 1 RUN @ 132'

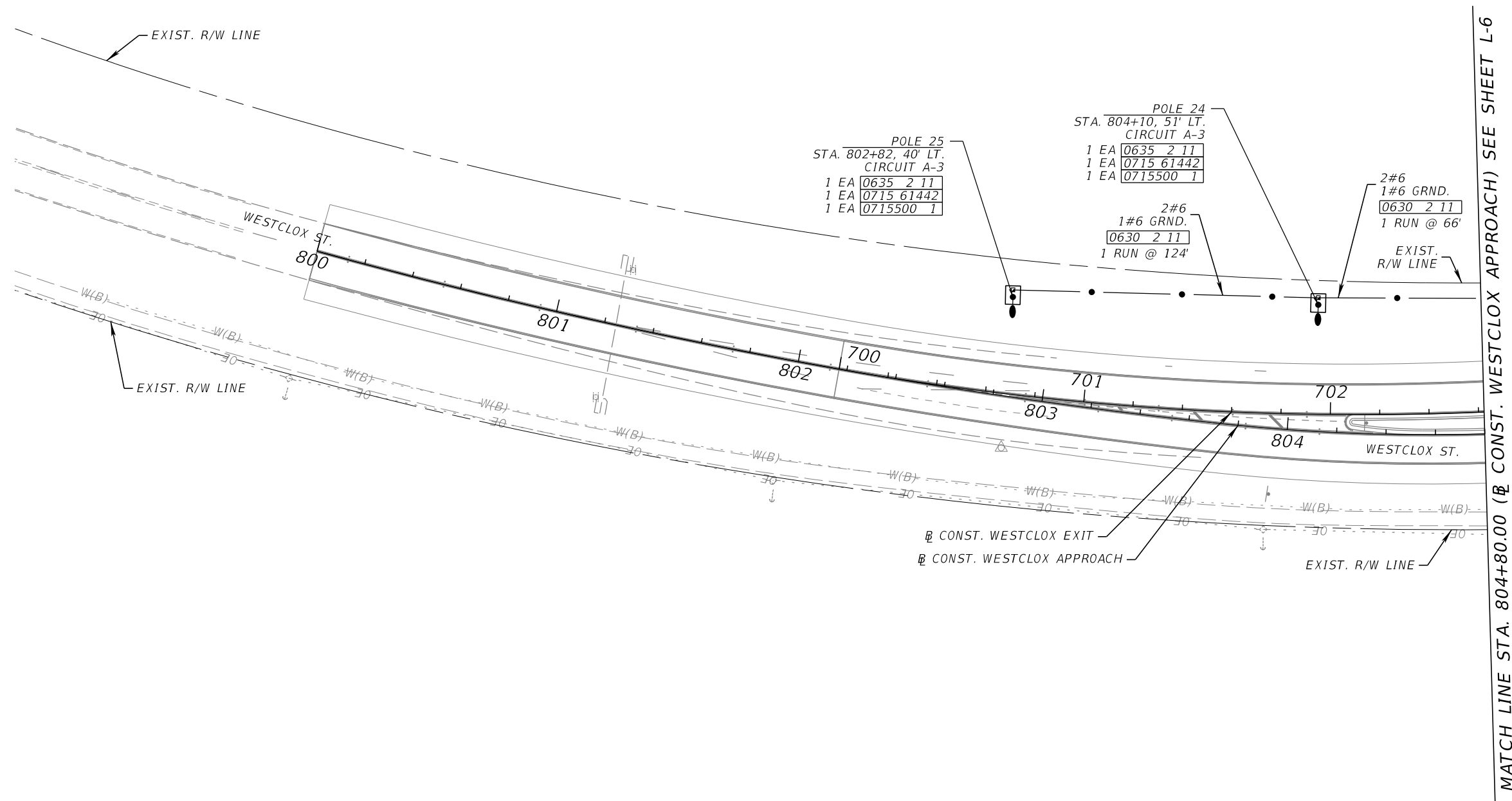
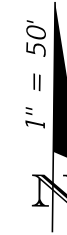
POLE 21  
 STA. 2105+77, 72' RT.  
 CIRCUIT A-4  
 0635 2 11 1 EA  
 0715 61400 1 EA  
 0715500 1 1 EA

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
								SR 29	COLLIER

**LIGHTING PLAN (3)**

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

NOTE: ALL STATION/OFFSETS ON THIS SHEET ARE RELATIVE TO @ CONST. WESTCLOX APPROACH



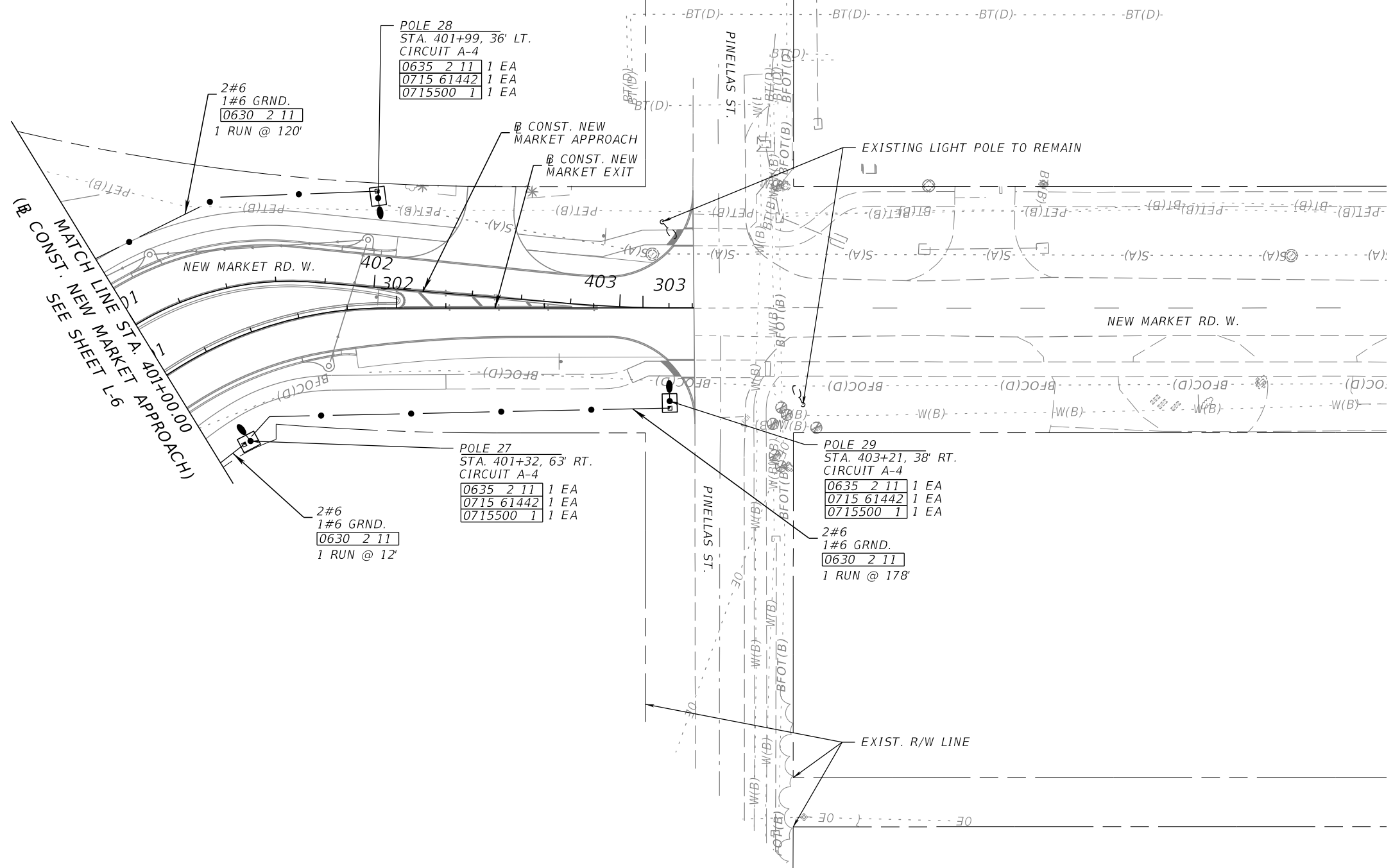
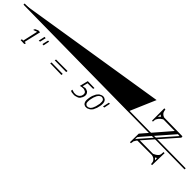
MATCH LINE STA. 804+80.00 (@ CONST. WESTCLOX APPROACH) SEE SHEET L-6

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 29	COLLIER	417540-6-52-01	L-8

**LIGHTING PLAN (4)**

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

NOTE: ALL STATION/OFFSETS ON THIS SHEET ARE RELATIVE TO CONST. NEW MARKET APPROACH



POLE 28  
 STA. 401+99, 36' LT.  
 CIRCUIT A-4  
 0635 2 11 1 EA  
 0715 61442 1 EA  
 0715500 1 1 EA

2#6  
 1#6 GRND.  
 0630 2 11  
 1 RUN @ 120'

POLE 27  
 STA. 401+32, 63' RT.  
 CIRCUIT A-4  
 0635 2 11 1 EA  
 0715 61442 1 EA  
 0715500 1 1 EA

2#6  
 1#6 GRND.  
 0630 2 11  
 1 RUN @ 12'

POLE 29  
 STA. 403+21, 38' RT.  
 CIRCUIT A-4  
 0635 2 11 1 EA  
 0715 61442 1 EA  
 0715500 1 1 EA

2#6  
 1#6 GRND.  
 0630 2 11  
 1 RUN @ 178'

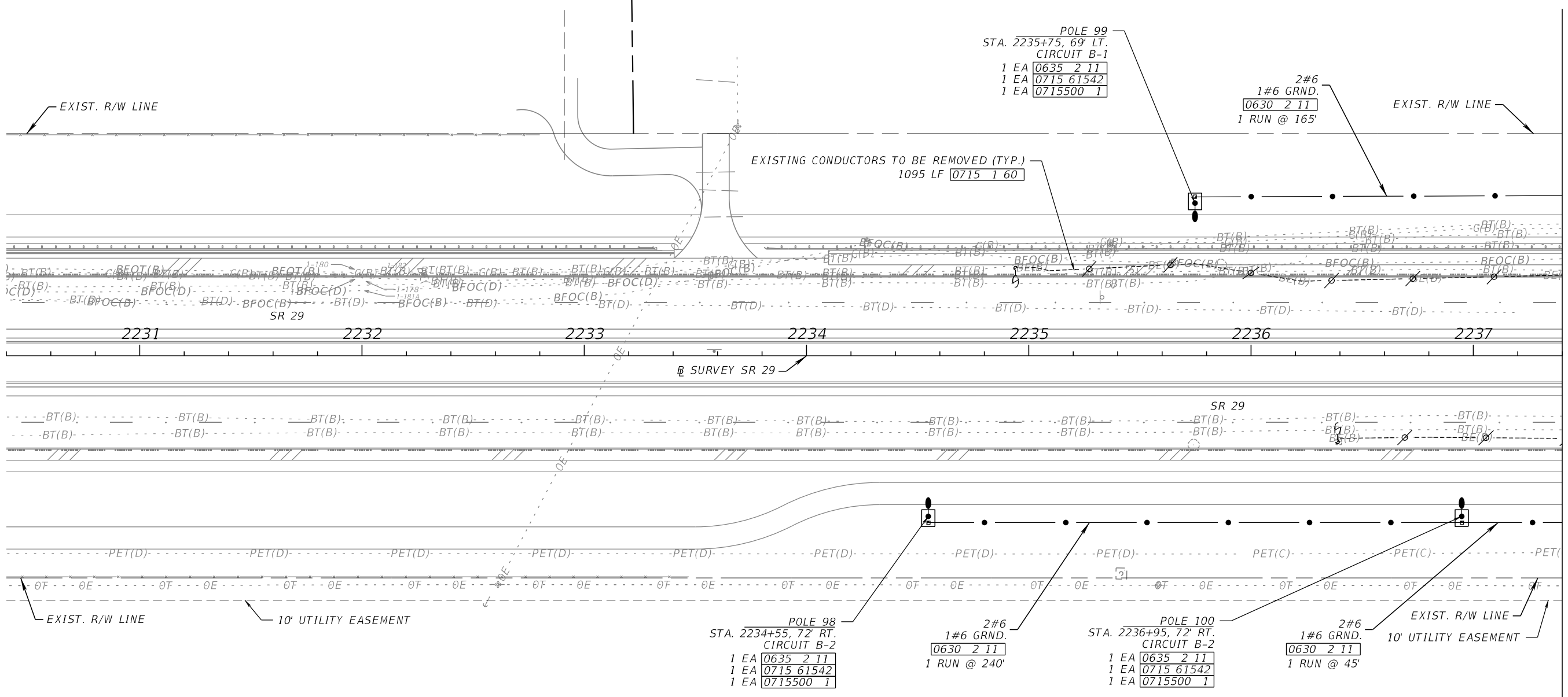
MATCH LINE STA. 401+00.00  
 (CONST. NEW MARKET APPROACH)  
 SEE SHEET L-6

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 29	COLLIER	417540-6-52-01	L-9

LIGHTING PLAN (5)

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

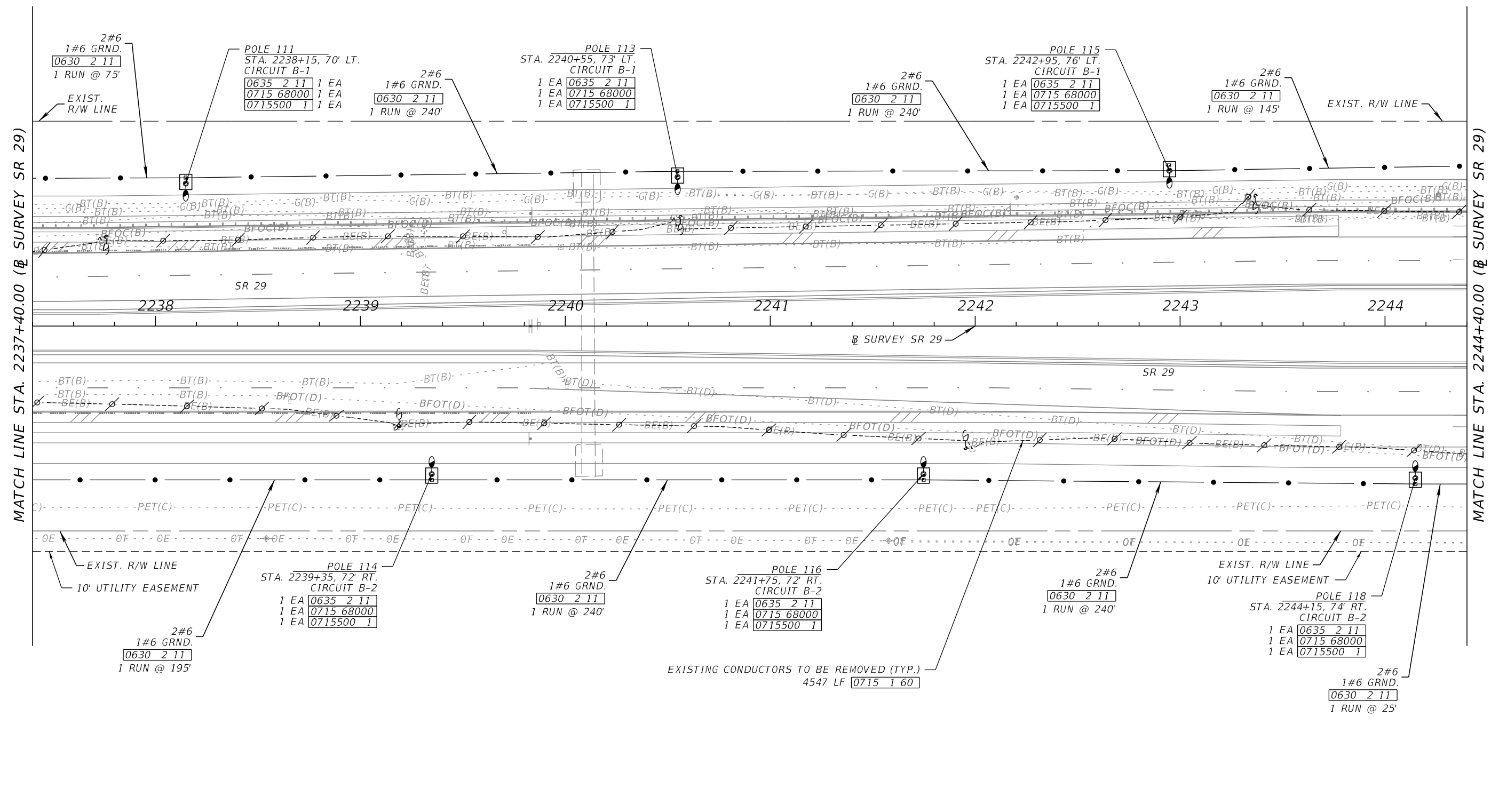
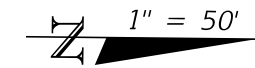
1" = 50'



MATCH LINE STA. 2237+40.00 (SEE SURVEY SR 29)

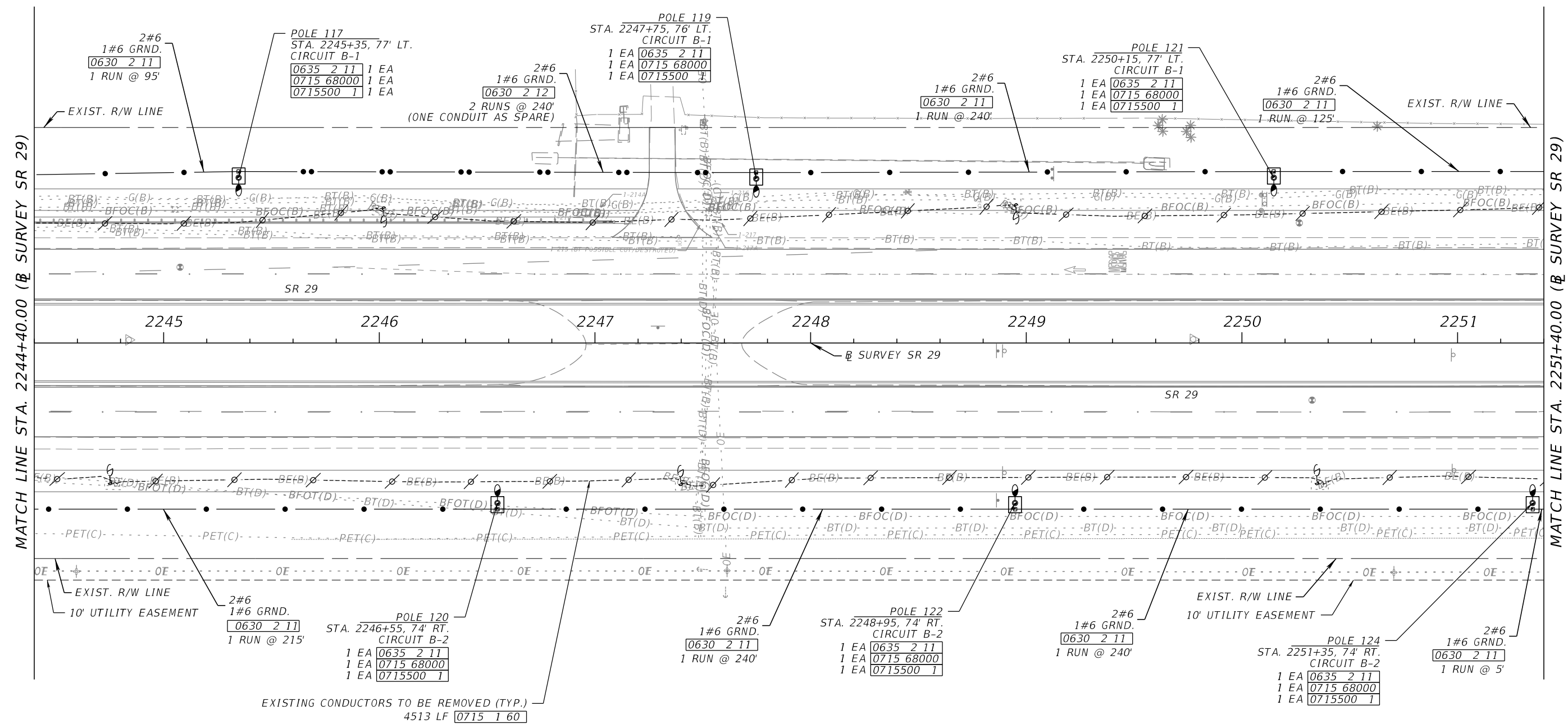
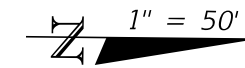
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 29	COLLIER	417540-6-52-01	L-10
<b>LIGHTING PLAN (6)</b>									

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



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 29	COLLIER	417540-6-52-01	
<b>LIGHTING PLAN (7)</b>									L-11

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

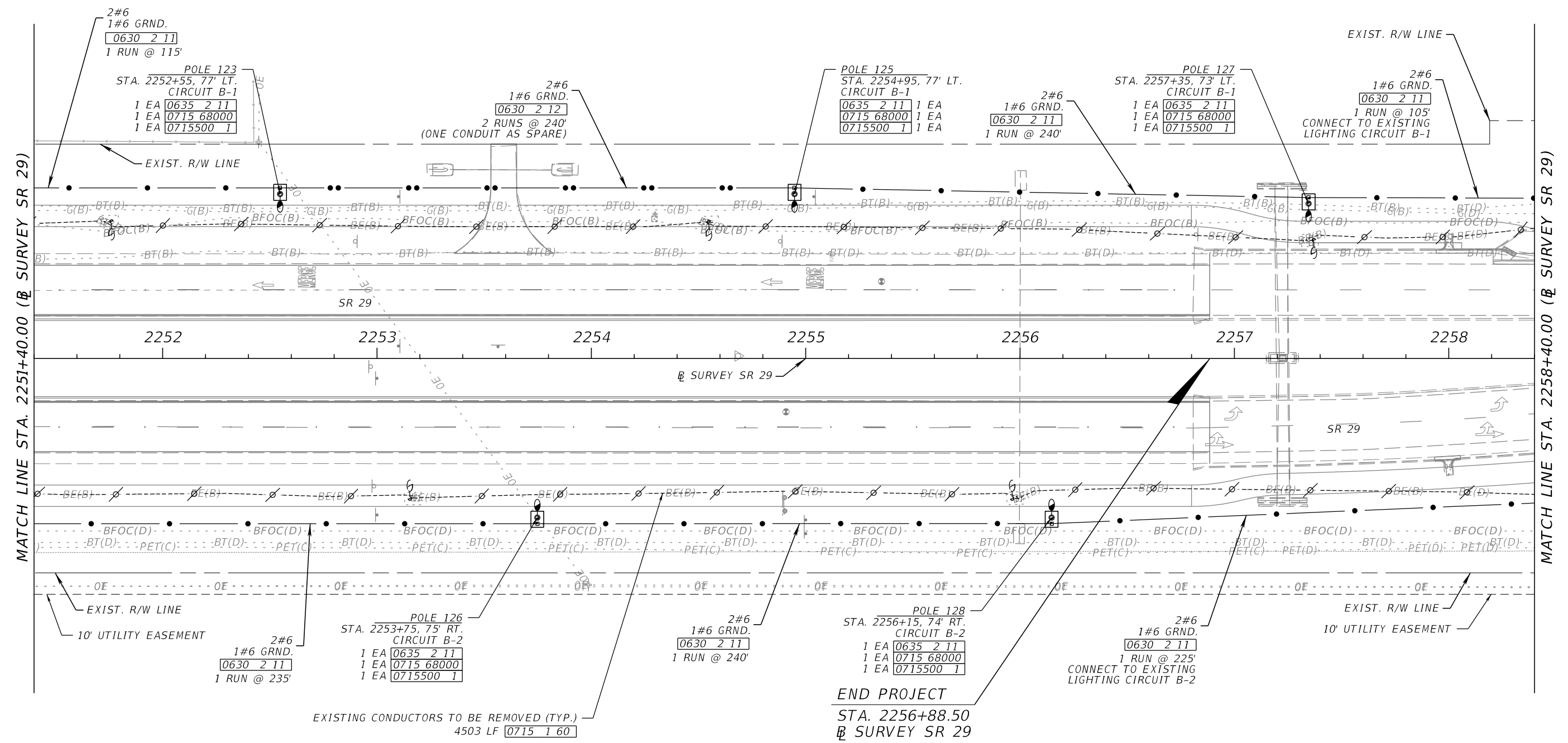


REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 29	COLLIER	417540-6-52-01	L-12

**LIGHTING PLAN (8)**

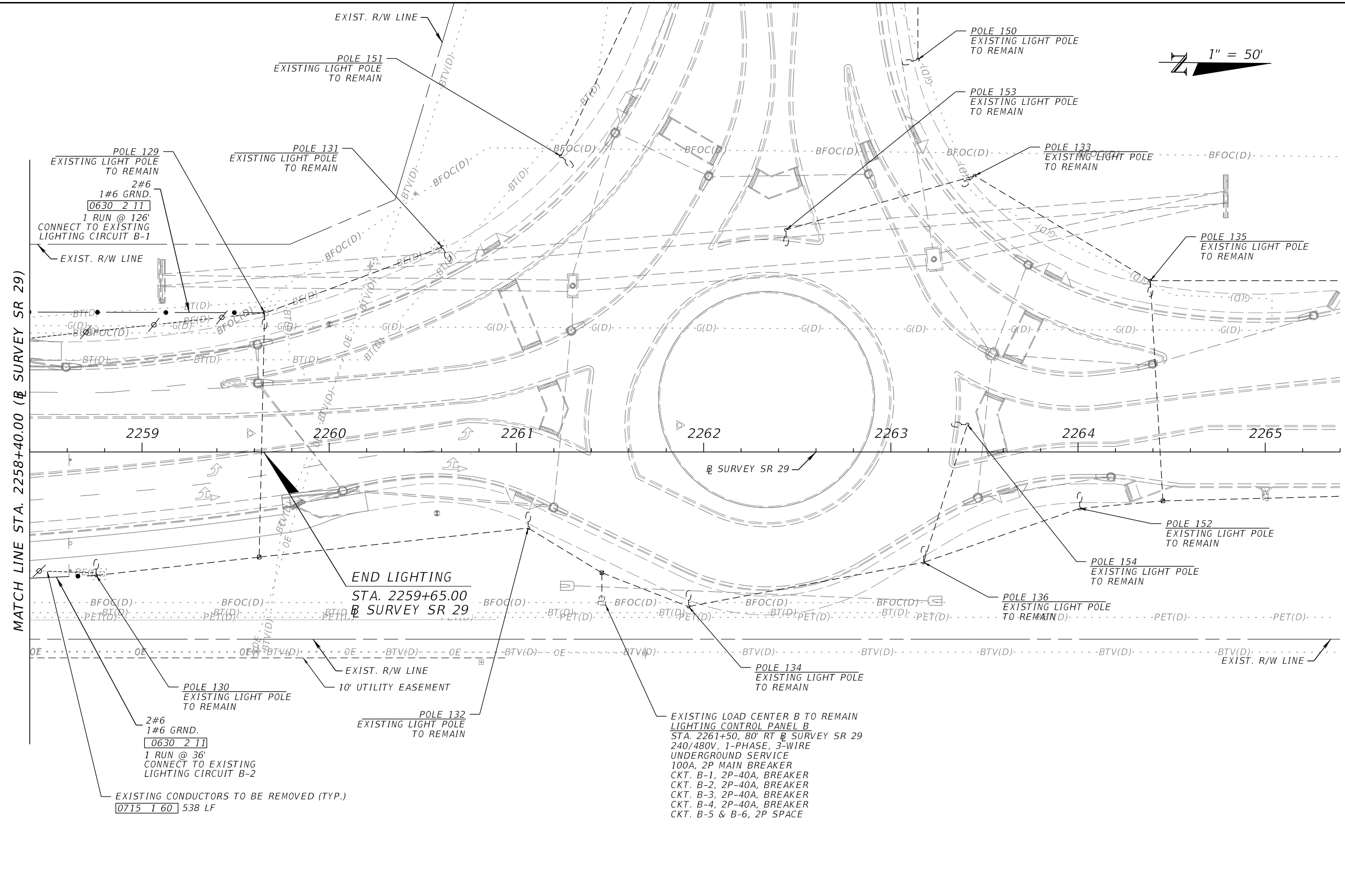
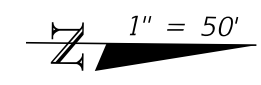
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

N 1" = 50'



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
								SR 29	
<b>LIGHTING PLAN (9)</b>									L-13

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



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHN ALEXANDER RAMON, P.E. LICENSE NUMBER: 97249 FALLER, DAVIS & ASSOCIATES, INC. 1150 ASSEMBLY DRIVE, SUITE 400 TAMPA, FL 33607-4874		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 29	COLLIER	417540-6-52-01	L-14

**LIGHTING PLAN (10)**

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

**SERVICE POINT GENERAL NOTES:**

1. MAIN SERVICE DISCONNECTS SHALL BE ENCLOSED MOLDED CASE THERMOMAGNETIC CIRCUIT BREAKER, AMPERAGE RATING AS INDICATED IN THE "ELECTRICAL SCHEDULE", 240/480VAC, 1 PHASE, MINIMUM 35KAIC RATING, SOLID NEUTRAL, UL LISTED FOR SERVICE ENTRANCE, NEMA 4X, POLE MOUNTED. BOND NEUTRAL TO GROUND. PROVIDE WEATHERPROOF LAMINATED LABEL WITH THE WORD "MAIN".
2. SURGE PROTECTIVE DEVICES (SPD), VOLTAGE AS INDICATED IN THE "SERVICE POINT ONE-LINE DIAGRAM", 1 PHASE, OUTDOOR RATED.
3. SERVICE GROUNDING ELECTRODE SYSTEMS SHALL BE INSULATED COPPER CONDUCTOR WITH WIRE SIZE AS INDICATED IN THE "ELECTRICAL SCHEDULE". BOND CONDUCTOR TO COPPER CLAD GROUND RODS. PROVIDE ADDITIONAL GROUND RODS IF RESISTANCE TO GROUND EXCEED 25 OHMS.
4. FEEDER CONDUCTORS AND CONDUITS SHALL BE INSTALLED UNDERGROUND. SIZE AS INDICATED IN THE "ELECTRICAL SCHEDULE".
5. LIGHTING CONTROL PANEL (LCP) SHALL BE NEMA 4X. DOOR SHALL BE LOCKABLE AND FOUR KEYS PROVIDED TO THE MAINTAINING AGENCY. DOOR SHALL HAVE CONTINUOUS HINGES AND BE LATCHABLE (NO SCREWS SHALL BE USED TO ATTACH DOOR). ENCLOSURE SHALL BE SIZED TO ENCLOSE ALL OF THE ELECTRICAL EQUIPMENT AND COMPONENTS FOR A COMPLETE AND OPERATIONAL INSTALLATION. THE LCP SHALL BE FACTORY ASSEMBLED AND TESTED PRIOR TO SHIPMENT TO THE PROJECT SITE. THE LCP SHALL BE CERTIFIED BY UL.
6. PANELBOARD, AMPERAGE, AND VOLTAGE IS INDICATED IN THE "ELECTRICAL SCHEDULE". PROVIDE COPPER BUS BARS, SEPARATE NEUTRAL AND EQUIPMENT GROUNDING BARS, BOLT-ON TYPE BREAKERS, AND NEMA 1 ENCLOSURE. SERIES RATED PANELBOARDS ARE NOT ACCEPTABLE. EACH CIRCUIT BREAKER SHALL HAVE THE MINIMUM AIC RATING AS INDICATED ON THE "LOAD CENTER SCHEDULE".
7. ALL NEUTRAL WIRES SHALL HAVE WHITE INSULATION. DO NOT USE WHITE OR GREEN INSULATED WIRES FOR UNGROUNDED (PHASE) CONDUCTORS.
8. A PULL BOX IS REQUIRED AT EACH LIGHTING CONTROL PANEL AND CONCRETE RISER POLE LOCATIONS. REFER TO FDOT INDEX FOR ADDITIONAL REQUIREMENTS. THE PULL BOX COVER FOR THE CONCRETE PEDESTAL SHALL BE LABELED "ELECTRIC". PULL BOX COVERS SHALL MATCH OTHER COVERS FOR ROADWAY LIGHTING.
9. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH 75 DEGREE C TERMINAL LUG CONNECTORS.
10. ALL UNDERGROUND CONDUITS SHALL BE PVC. ALL CONDUITS EXPOSED TO THE WEATHER SHALL BE RIGID GALVANIZED STEEL INCLUDING ELBOWS. PROVIDE PVC TO RGS CONDUIT COUPLINGS AS REQUIRED FOR TRANSITIONS FROM UNDERGROUND TO EXPOSED INSTALLATIONS.

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

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>SERVICE POINT DETAILS (1)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	KATHY GIANG, P.E. P.E. LICENSE NUMBER 53246 KNK ENGINEERING CONSULTING CORP. 3001 NORTH ROCKY POINT DRIVE, SUITE 200, TAMPA, FL 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-15
								SR 29	COLLIER	417540-6-52-01

### ELECTRICAL LOAD CALCULATIONS

SERVICE POINT "A"

DESCRIPTION	CONNECTED (KVA)	DEMAND FACTOR *	DEMAND (KVA)
CKT A-1	1.12	125%	1.40
CKT A-2	1.12	125%	1.40
CKT A-3	2.79	125%	3.49
CKT A-4	3.07	125%	3.84
<b>TOTAL</b>	<b>8.09</b>		<b>10.11</b>

OVERCURRENT PROTECTION:  
 $\frac{10.11 \text{ KVA}}{480 \text{ V}} = 21.07 \text{ A} * 125\% \text{ (25\% FUTURE LOADS)} = 26.34 \text{ A}$   
 THEREFORE, PROVIDE 100AMP SINGLE PHASE ELECTRICAL SERVICE TO SERVE ALL LOADS.

\* UTILIZE 125% DEMAND FACTOR FOR CONTINUOUS LOADS (LIGHTING) PER THE NATIONAL ELECTRICAL CODE.

### ELECTRICAL LOAD CALCULATIONS

EXISTING SERVICE POINT "B"

DESCRIPTION	CONNECTED (KVA)	DEMAND FACTOR *	DEMAND (KVA)
EXISTING CKT B-1	3.03	125%	3.79
EXISTING CKT B-2	3.27	125%	4.09
EXISTING CKT B-3	5.00	125%	6.26
EXISTING CKT B-4	5.58	125%	6.98
<b>TOTAL</b>	<b>16.89</b>		<b>21.11</b>

OVERCURRENT PROTECTION:  
 $\frac{21.11 \text{ KVA}}{480 \text{ V}} = 43.98 \text{ A} * 125\% \text{ (25\% FUTURE LOADS)} = 54.98 \text{ A}$   
 THEREFORE, EXISTING 100AMP SINGLE PHASE ELECTRICAL SERVICE IS SUFFICIENT TO SERVE ALL LOADS.

\* UTILIZE 125% DEMAND FACTOR FOR CONTINUOUS LOADS (LIGHTING) PER THE NATIONAL ELECTRICAL CODE.

MAINS: 100AMP MLO  
 VOLTAGE: 240/480  
 PHASE: 1 WIRE: 3

### SERVICE POINT "A"

(LOAD CENTER SCHEDULE)

BRANCHES: 18  
 ACI RATING: 35K

CIRCUIT NUMBER	DESCRIPTION	CIRCUIT BREAKER		KVA	KVA	CIRCUIT BREAKER		DESCRIPTION	CIRCUIT NUMBER
		AMPS	POLE			AMPS	POLE		
1	SEE NOTE 1 BELOW	20	2	1.12	1.12	20	2	SEE NOTE 1 BELOW	2
3	SEE NOTE 1 BELOW	20	2	2.79	3.07	20	2	SEE NOTE 1 BELOW	4
5	SPACE	-	2	-	-	-	2	SPACE	6
7	SPACE	-	2	-	-	-	2	SPACE	8
9	SPACE	-	1	-	-	-	1	SPACE	10

TOTAL CONNECTED LOAD: 8.09 KVA                      TOTAL DEMAND LOAD: 10.11 KVA

MAINS: 100AMP MLO  
 VOLTAGE: 240/480  
 PHASE: 1 WIRE: 3

### EXISTING SERVICE POINT "B"

(LOAD CENTER SCHEDULE)

BRANCHES: EXISTING  
 ACI RATING: EXISTING

CIRCUIT NUMBER	DESCRIPTION	CIRCUIT BREAKER		KVA	KVA	CIRCUIT BREAKER		DESCRIPTION	CIRCUIT NUMBER
		AMPS	POLE			AMPS	POLE		
1	EXISTING CKT B-1	40	2	3.03	3.27	40	2	EXISTING CKT B-2	2
3	EXISTING CKT B-3	40	2	5.00	5.58	40	2	EXISTING CKT B-4	4
5	SPACE	-	2	-	-	-	2	SPACE	6

TOTAL CONNECTED LOAD: 16.89 KVA                      TOTAL DEMAND LOAD: 21.11 KVA

- #### NOTES FOR ALL PANELBOARDS:
1. PROVIDE TYPE WRITTEN DIRECTORIES WITH THE SAME POLE IDENTIFICATION TAG NUMBERING SYSTEM AS INSTALLED IN THE FIELD FOR EACH POLE.
  2. ALL SPARE BREAKERS SHALL BE IN THE "OFF" POSITION.
  3. THERE SHALL BE NO SPLICES INSIDE PANELBOARDS.
  4. PROVIDE BOLT-ON TYPE BREAKERS AND COPPER BUS BARS (SEPARATE NEUTRAL & EQUIPMENT BARS).

- #### SERVICE POINT SPECIAL NOTES:
1. FOR SERVICE POINT DETAILS, SEE FY 2026-2027 FDOT STANDARDS PLANS INDEX 639-001 & 639-002, SHEET 1 OF 2, DETAIL B - UNDERGROUND FEED AND SHEET 2 OF 2, ONE-LINE DIAGRAM DISTRIBUTION POINT, PHOTOELECTRIC CONTROLLER, TYPICAL DISTRIBUTION POINT SCHEMATIC, RISER DIAGRAM - TYPICAL DISTRIBUTION POINT DETAILS FOR ADDITIONAL REQUIREMENTS.
  2. COORDINATE WITH THE POWER COMPANY FOR UTILITY TRANSFORMER CONNECTIONS.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>SERVICE POINT DETAILS (2)</b>	SHEET NO.  L-16
DATE	DESCRIPTION	DATE	DESCRIPTION	KATHY GIANG, P.E. P.E. LICENSE NUMBER 53246 KNK ENGINEERING CONSULTING CORP. 3001 NORTH ROCKY POINT DRIVE, SUITE 200, TAMPA, FL 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 29	COLLIER	417540-6-52-01		

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