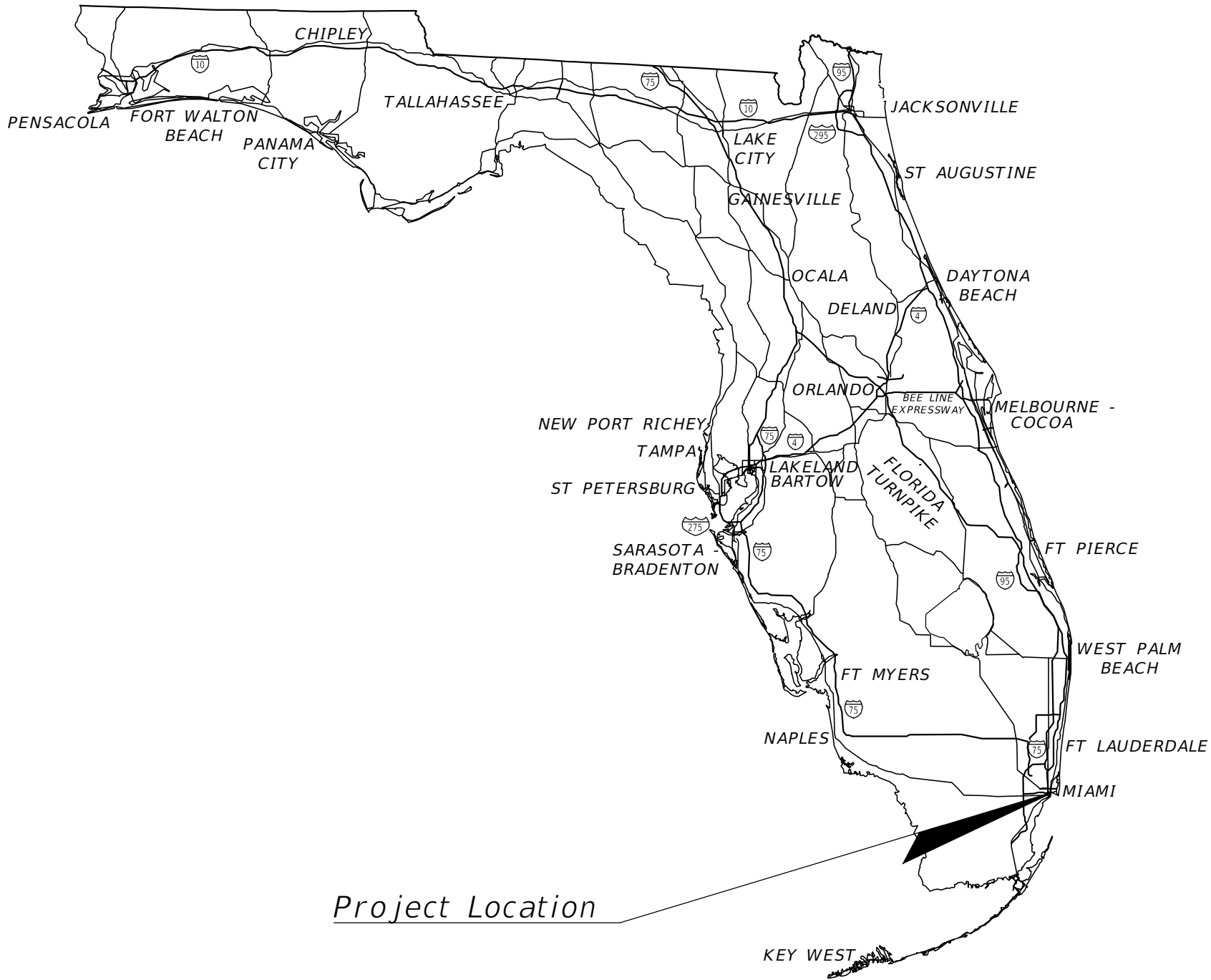


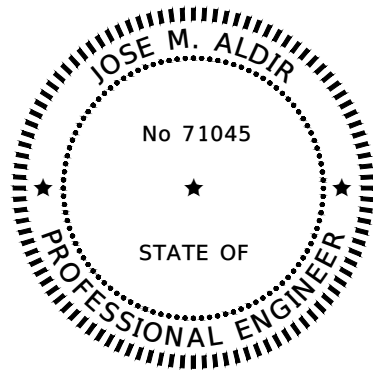
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LIGHTING PLANS

Project Location



Project Location



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSE M. ALDIR, P.E. ON THE DATE ADJACENT TO THE SEAL.

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

LIGHTING PLANS
ENGINEER OF RECORD:

JOSE ALDIR, P.E.
P.E. NO.: 71045
CIVIL WORKS, INC.
8491 NW 17 STREET, SUITE 108
DORAL FL 33126
CERTIFICATE OF AUTHORIZATION NO.: 07528

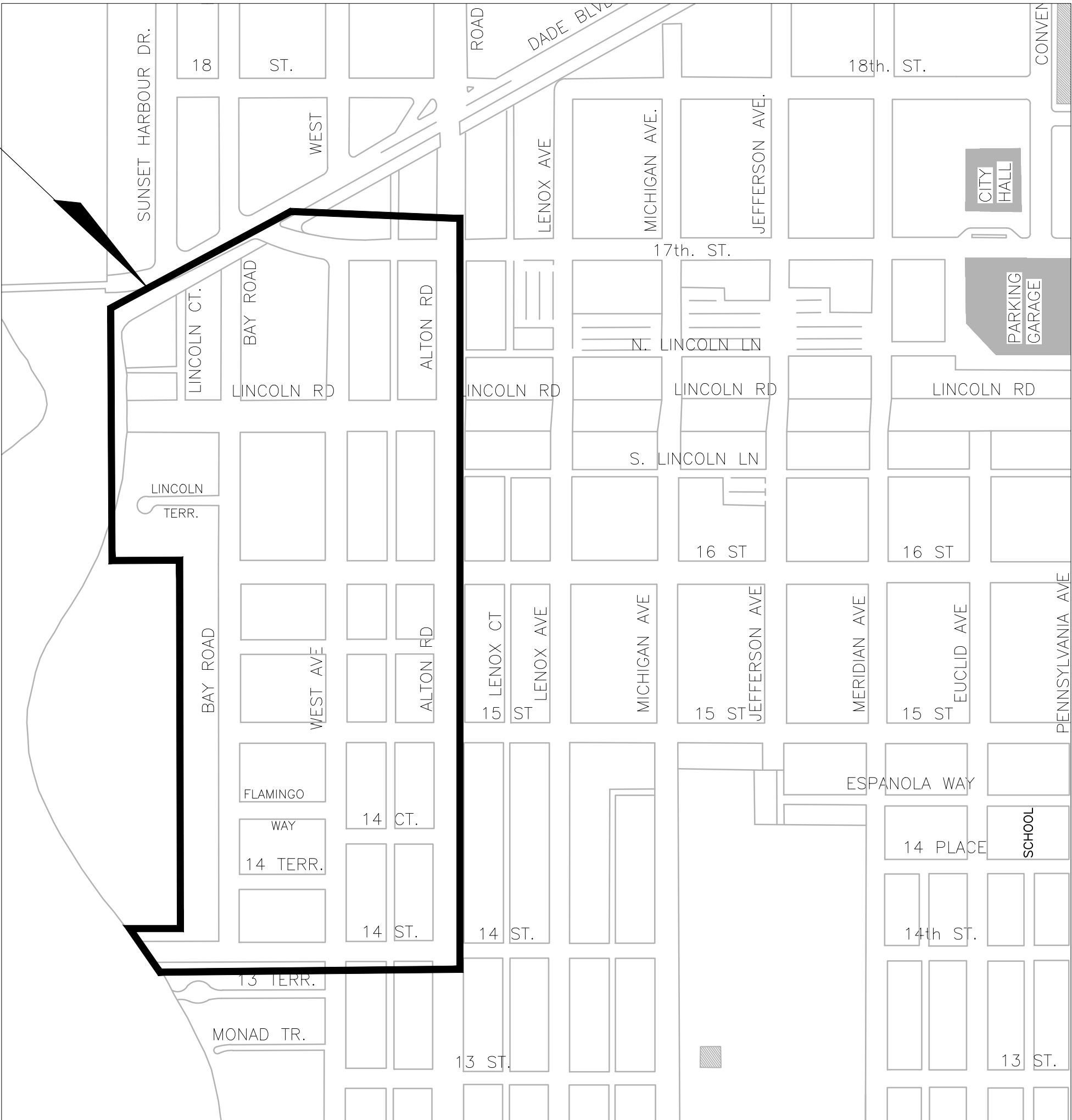
PERMIT SET

These plans are based on the roadway design file received on 02/03/23

L-1

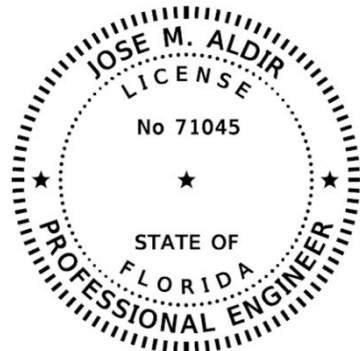
INDEX OF LIGHTING PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	POLE DATA & NOTES
L-4 - L-14	LIGHTING PLAN
L-15	LIGHTING DETAILS



TABULATION OF QUANTITIES					
PAY ITEM NO.	DESCRIPTION	UNIT	GRAND TOTAL		REF. SHT
			PLAN	FINAL	
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE) UNDERGROUND OR UNDERPAVEMENT (PVC)	LF	17,639		
635-2-11	LIGHTING PULL BOX	EA	220		
639-1-122	ELECTRICAL POWER SERVICE	AS	3		
641-2-12	SERVICE POLE TYPE P-11	EA	3		
715-1-12	LIGHTING CONDUCTORS No.8 TO No.6	LF	61,281		
715-1-14	LIGHTING CONDUCTORS No.1 TO No.0	LF	2124		
715-7-11	LOAD CENTER	EA	3		
* 715-511-125	LIGHT POLE DECORATIVE 25'	EA	131		
* 715-516-112	LIGHT POLE DECORATIVE 12'	EA	17		

*CES TO DESIGN LIGHT POLE FOUNDATIONS.



PERMIT SET

L-2

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POLE DATA							
Pole No.	Circuit	STA	Dist of Arm	Wattage	MH	Setback	Pay Item
* EX 15	EX A-1	145+20.13	6'	158	25'	8'	715-511-125
C-1-1	C-1	73+34.30	6'	158	25'	7'	715-511-125
C-1-2	C-1	73+46.01	6'	158	25'	7'	715-511-125
C-1-3	C-1	71+29.88	6'	158	25'	7'	715-511-125
C-1-4	C-1	320+50.82	6'	158	25'	14.5'	715-511-125
C-1-5	C-1	321+16.28	6'	158	25'	38'	715-511-125
C-1-6	C-1	322+06.12	0'	82	12'	38'	715-516-112'
C-1-7	C-1	322+45.39	6'	158	25'	12'	715-511-125
C-1-8	C-1	324+27.61	6'	158	25'	6'	715-511-125
C-1-9	C-1	325+05.35	6'	158	25'	18'	715-511-125
C-1-10	C-1	325+82.23	6'	158	25'	6'	715-511-125
C-1-11	C-1	326+82.26	6'	158	25'	6'	715-511-125
C-2-1	C-2	70+83.24	6'	158	25'	7'	715-511-125
C-2-2	C-2	70+99.18	6'	158	25'	7'	715-511-125
C-2-3	C-2	319+15.85	6'	158	25'	20'	715-511-125
C-2-4	C-2	318+26.38	6'	158	25'	20'	715-511-125
C-2-5	C-2	3+89.76	6'	158	25'	4'	715-511-125
C-2-6	C-2	3+28.32	6'	158	25'	5'	715-511-125
C-2-7	C-2	2+21.87	6'	158	25'	5'	715-511-125
C-2-8	C-2	1+28.23	6'	158	25'	5'	715-511-125
C-2-9	C-2	317+01.29	6'	158	25'	12'	715-511-125
C-2-10	C-2	316+43.34	6'	158	25'	6'	715-511-125
C-2-11	C-2	317+64.33	6'	158	25'	18'	715-511-125
C-2-12	C-2	319+15.96	6'	158	25'	26'	715-511-125
C-3-1	C-3	218+61.26	6'	158	25'	11.5'	715-511-125
C-3-2	C-3	217+28.67	6'	158	25'	5'	715-511-125
C-3-3	C-3	215+98.91	6'	158	25'	3'	715-511-125
C-3-4	C-3	216+40.70	6'	158	25'	5'	715-511-125
C-3-5	C-3	65+23.52	6'	158	25'	6'	715-511-125
C-3-6	C-3	64+17.52	0'	82	12'	12.5'	715-516-112'
C-3-7	C-3	119+13.63	6'	158	25'	4'	715-511-125
C-3-8	C-3	116+58.20	6'	158	25'	4'	715-511-125
C-3-9	C-3	115+71.33	6'	158	25'	12'	715-511-125
C-3-10	C-3	115+97.97	6'	158	25'	12'	715-511-125
C-3-11	C-3	117+83.11	6'	158	25'	4'	715-511-125
C-3-12	C-3	63+65.40	6'	158	25'	10'	715-511-125
C-4-1	C-4	67+94.58	6'	158	25'	6'	715-511-125
C-4-2	C-4	66+76.22	6'	158	25'	16.5'	715-511-125
C-4-3	D-2	67+14.75	6'	158	25'	10'	715-511-125
C-4-4	C-4	68+61.47	6'	158	25'	6'	715-511-125
C-4-5	C-4	320+46.10	6'	158	25'	13'	715-511-125
C-4-6	C-4	321+45.93	6'	158	25'	21'	715-511-125
C-4-7	C-4	322+40.47	0'	82	12'	21'	715-516-112'
C-4-8	C-4	323+03.37	6'	158	25'	13'	715-511-125
C-4-9	C-4	324+25.97	6'	158	25'	8'	715-511-125
C-4-10	C-4	324+76.04	6'	158	25'	18'	715-511-125
C-4-11	C-4	325+80.59	6'	158	25'	6'	715-511-125
C-4-12	C-4	326+80.62	6'	158	25'	6'	715-511-125
D-1-1	D-1	21+50.91	6'	158	25'	7'	715-511-125
D-1-2	D-1	22+31.30	0'	82	12'	7'	715-516-112'
D-1-3	D-1	23+25.68	6'	158	25'	6'	715-511-125
D-1-4	D-1	22+46.67	6'	158	25'	7'	715-511-125
D-1-5	D-1	21+60.70	0'	82	12'	7'	715-516-112'
D-1-6	D-1	20+68.27	6'	158	25'	7'	715-511-125
D-1-7	D-1	140+46.88	6'	158	25'	10'	715-511-125
D-1-8	D-1	140+97.11	6'	158	25'	6'	715-511-125
D-1-9	D-1	141+72.68	6'	158	25'	6'	715-511-125
D-1-10	D-1	142+51.26	0'	82	12'	6'	715-516-112'
D-1-11	D-1	143+51.57	6'	158	25'	10'	715-511-125
D-1-12	D-1	144+06.45	6'	158	25'	6'	715-511-125
D-1-13	D-1	142+91.43	6'	158	25'	7'	715-511-125
D-1-14	D-1	141+44.77	6'	158	25'	10'	715-511-125
D-1-15	D-1	140+33.01	6'	158	25'	6'	715-511-125
D-1-16	D-1	139+59.55	6'	158	25'	10'	715-511-125
D-2-1	D-2	19+37.18	6'	158	25'	13.5'	715-511-125
D-2-2	D-2	17+65.55	6'	158	25'	7'	715-511-125
D-2-3	D-2	62+94.12	6'	158	25'	13.5'	715-511-125
D-2-4	D-2	60+39.37	6'	158	25'	7'	715-511-125
D-2-5	D-2	58+32.74	6'	158	25'	7'	715-511-125
D-2-6	D-2	58+60.84	6'	158	25'	16.5'	715-511-125
D-2-7	D-2	59+65.21	6'	158	25'	6'	715-511-125
D-2-8	D-2	61+30.55	6'	158	25'	6'	715-511-125
D-2-9	D-2	62+04.05	6'	158	25'	23.5'	715-511-125
D-2-10	D-2	64+44.43	6'	158	25'	13.5'	715-511-125

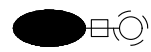
POLE DATA							
Pole No.	Circuit	STA	Dist of Arm	Wattage	MH	Setback	Pay Item
D-2-11	D-2	66+16.17	6'	158	25'	16.5'	715-511-125
D-3-1	D-3	135+75.56	0'	82	12'	6'	715-516-112'
D-3-2	D-3	134+83.39	6'	158	25'	6'	715-511-125
D-3-3	D-3	134+25.95	6'	158	25'	10'	715-511-125
D-3-4	D-3	135+14.27	6'	158	25'	6'	715-511-125
D-3-5	D-3	135+96.47	6'	158	25'	6'	715-511-125
D-3-6	D-3	417+76.59	0'	82	12'	14'	715-516-112'
D-3-7	D-3	417+01.06	6'	158	25'	7'	715-511-125
D-3-8	D-3	415+52.37	6'	158	25'	6'	715-511-125
D-3-9	D-3	416+17.98	6'	158	25'	14'	715-511-125
D-3-10	D-3	417+46.39	0'	82	12'	14'	715-516-112'
D-3-11	D-3	418+43.85	6'	158	25'	14'	715-511-125
D-4-1	D-4	138+62.78	6'	158	25'	10'	715-511-125
D-4-2	D-4	137+84.09	0'	82	12'	6'	715-516-112'
D-4-3	D-4	163+80.10	6'	158	25'	10'	715-511-125
D-4-4	D-4	419+70.33	6'	158	25'	7.5'	715-511-125
D-4-5	D-4	421+70.33	0'	82	12'	7.5'	715-516-112'
D-4-6	D-4	421+95.73	6'	158	25'	7.5'	715-511-125
D-4-7	D-4	421+30.89	6'	158	25'	7.5'	715-511-125
D-4-8	D-4	420+41.24	6'	158	25'	7.5'	715-511-125
D-4-9	D-4	137+58.75	6'	158	25'	6'	715-511-125
D-4-10	D-4	18+50.78	6'	158	25'	13.5'	715-511-125
D-4-11	D-4	17+38.46	6'	158	25'	7'	715-511-125
D-4-12	D-4	16+58.55	6'	158	25'	6'	715-511-125
E-1-1	E-1	134+79.01	6'	158	25'	6'	715-511-125
E-1-2	E-1	17+49.98	6'	158	25'	7'	715-511-125
E-1-3	E-1	16+72.92	6'	158	25'	7'	715-511-125
E-1-4	E-1	57+26.12	6'	158	25'	7'	715-511-125
E-1-5	E-1	56+63.92	0'	82	12'	16.5'	715-516-112'
E-1-6	E-1	55+83.53	0'	82	12'	16.5'	715-516-112'
E-1-7	E-1	55+43.39	6'	158	25'	7'	715-511-125
E-1-8	E-1	54+24.45	6'	158	25'	23'	715-511-125
E-1-9	E-1	53+25.14	6'	158	25'	6'	715-511-125
E-1-10	E-1	51+57.20	6'	158	25'	6'	715-511-125
E-1-11	E-1	51+11.42	6'	158	25'	6'	715-511-125
E-1-12	E-1	14+51.69	6'	158	25'	6'	715-511-125
E-1-13	E-1	113+97.51	6'	158	25'	7'	715-511-125
E-2-1	E-2	18+37.32	6'	158	25'	10'	715-511-125
E-2-2	E-2	15+94.68	6'	158	25'	7'	715-511-125
E-2-3	E-2	15+46.01	0'	82	12'	16'	715-516-112'
E-2-4	E-2	56+20.94	6'	158	25'	6'	715-511-125
E-2-5	E-2	315+10.51	6'	158	25'	14'	715-511-125
E-2-6	E-2	316+05.76	6'	158	25'	14'	715-511-125
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E-2-8	E-2	317+32.79	6'	158	25'	6'	715-511-125
E-2-9	E-2	315+96.68	0'	82	12'	6'	715-516-112'
E-2-10	E-2	314+54.84	6'	158	25'	6'	715-511-125
E-2-11	E-2	54+02.92	6'	158	25'	10.5'	715-511-125
E-2-12	E-2	52+27.66	6'	158	25'	6'	715-511-125
E-2-13	E-2	50+38.87	6'	158	25'	6'	715-511-125
E-3-1	E-3	131+95.23	6'	158	25'	4'	715-511-125
E-3-2	E-3	130+22.85	6'	158	25'	8'	715-511-125
E-3-3	E-3	128+58.24	6'	158	25'	6'	715-511-125
E-3-4	E-3	117+23.96	6'	158	25'	6'	715-511-125
E-3-5	E-3	116+37.00	6'	158	25'	14'	715-511-125
E-3-6	E-3	114+50.54	6'	158	25'	6'	715-511-125
E-3-7	E-3	115+48.84	6'	158	25'	7'	715-511-125
E-3-8	E-3	126+98.82	6'	158	25'	6'	715-511-125
E-3-9	E-3	126+15.64	0'	82	12'	6'	715-516-112'
E-3-10	E-3	125+92.99	6'	158	25'	6'	715-511-125
E-3-11	E-3	127+64.79	6'	158	25'	6'	715-511-125
E-3-12	E-3	129+17.56	6'	158	25'	6'	715-511-125
E-4-1	E-4	21+00.76	0'	82	12'	9.5'	715-516-112'
E-4-2	E-4	21+70.86	6'	158	25'	6'	715-511-125
E-4-3	E-4	22+20.29	6'	158	25'	4'	715-511-125
E-4-4	E-4	20+49.69	6'	158	25'	6'	715-511-125
E-4-5	E-4	19+71.38	6'	158	25'	4'	715-511-125
E-4-6	E-4	132+86.60	6'	158	25'	4'	715-511-125
E-4-7	E-4	131+73.62	6'	158	25'	10'	715-511-125
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E-4-9	E-4	214+50.11	6'	158	25'	6'	715-511-125
E-4-10	E-4	216+73.05	6'	158	25'	7.5'	715-511-125
E-4-11	E-4	217+11.72	6'	158	25'	7.5'	715-511-125
E-4-12	E-4	215+52.42	6'	158	25'	6.5'	715-511-125

LIGHTING DESIGN CRITERIA:

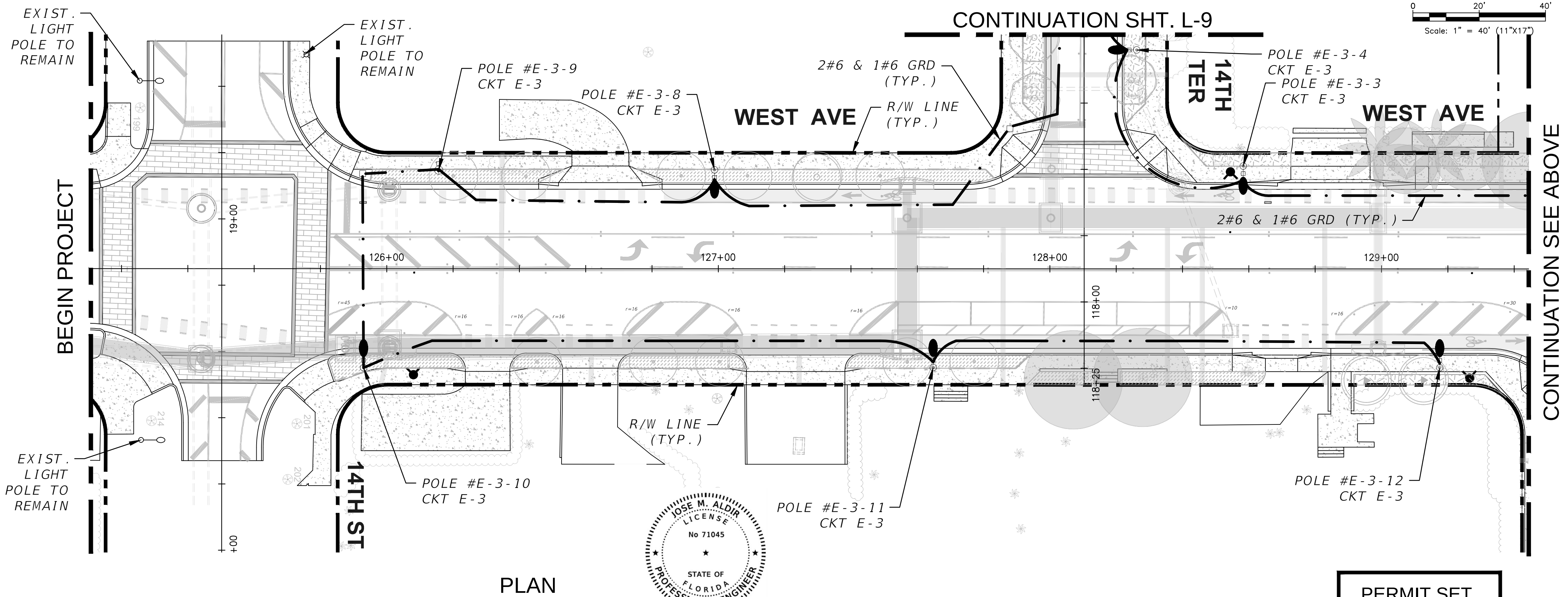
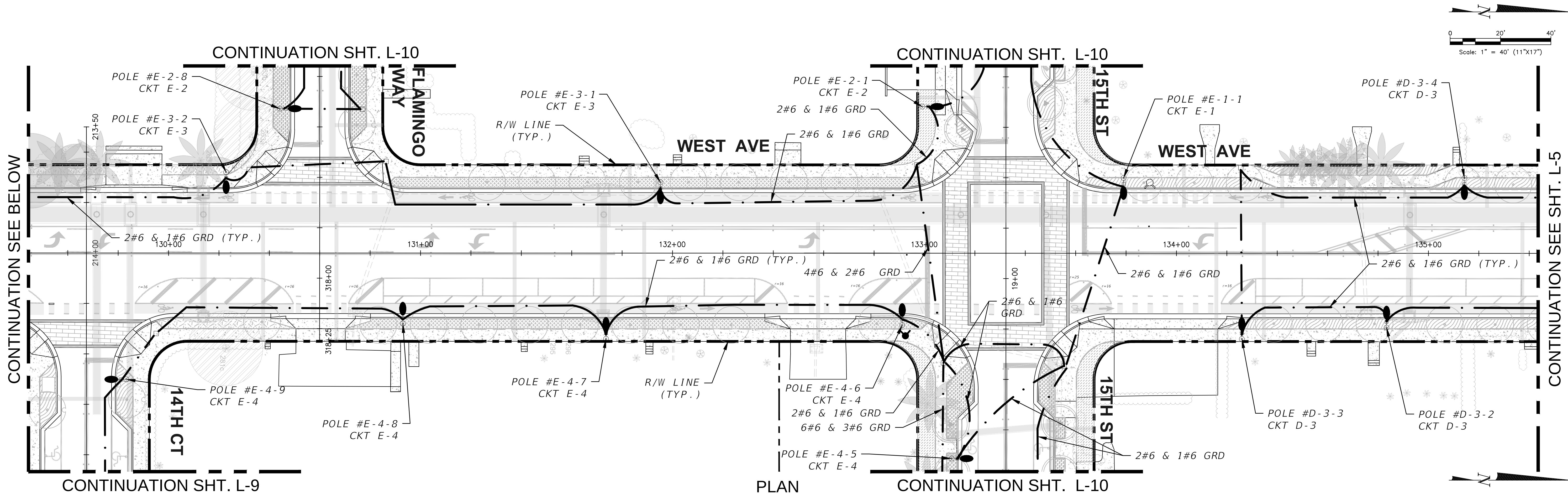
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MAX./MIN. 10:1 OR LESS
WIND SPEED 170 MPH

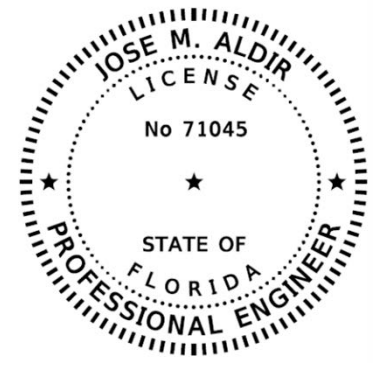
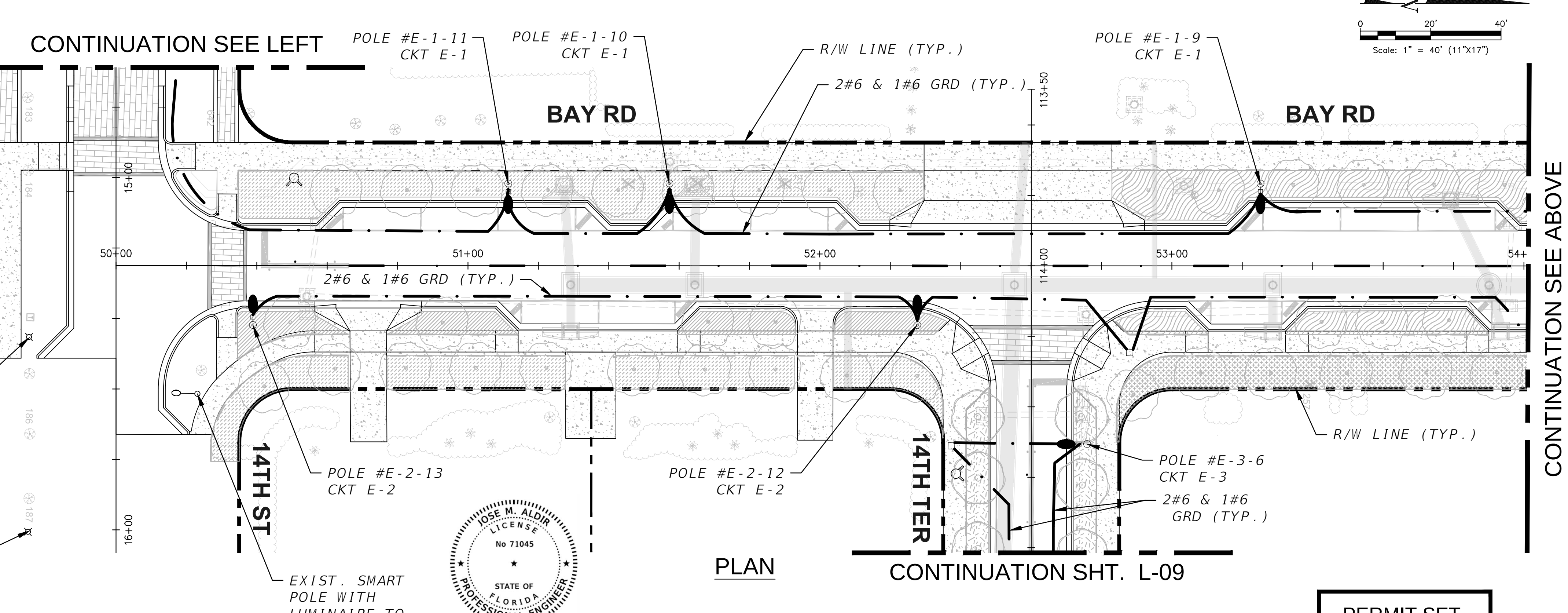
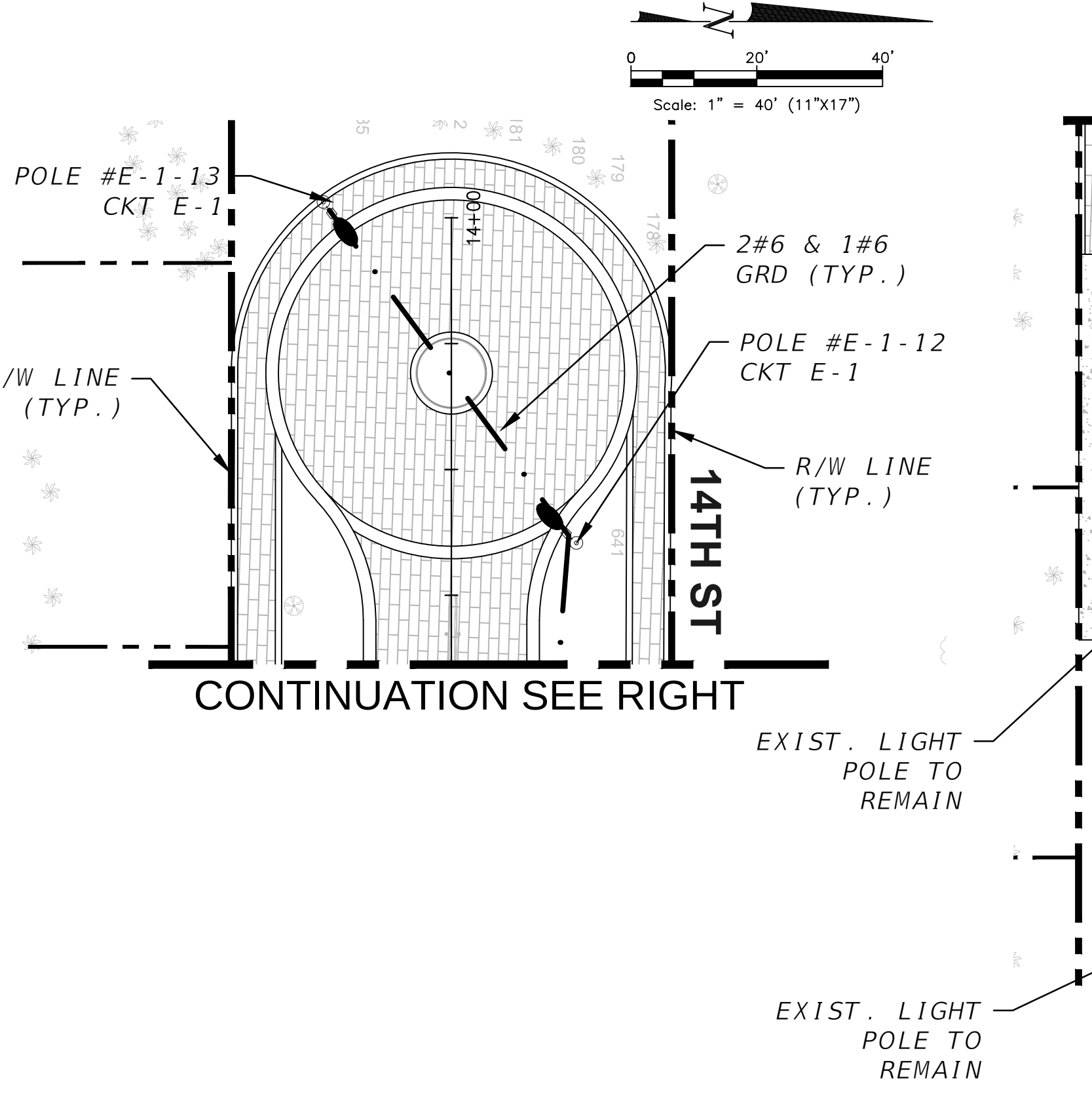
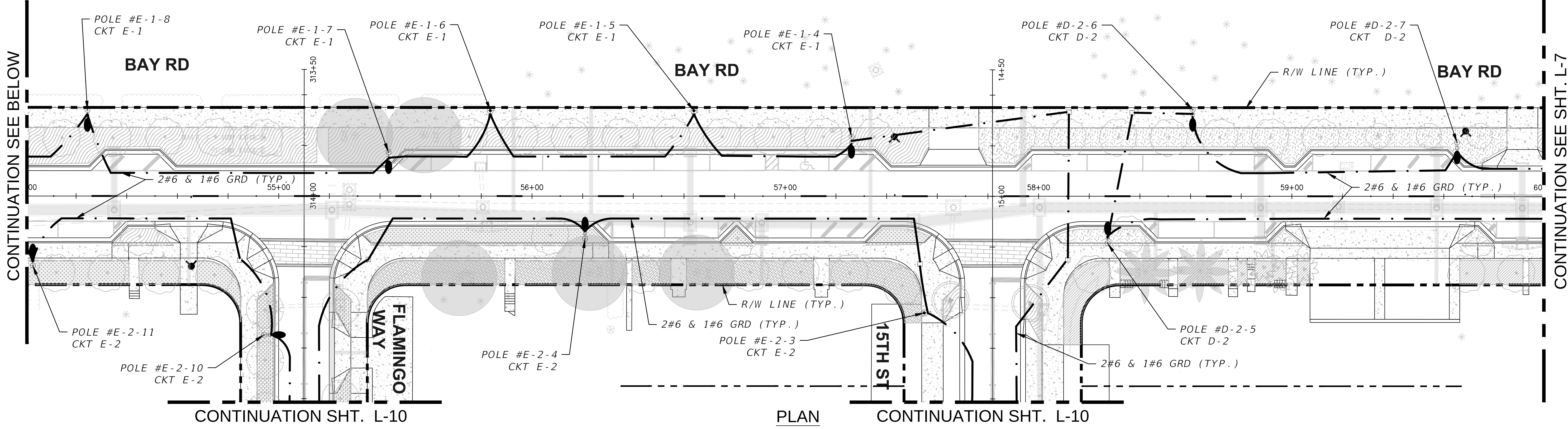
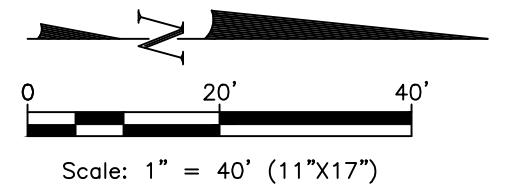
LEGEND

SYMBOL

 LIGHT POLE COMPLETE WITH STERNBERG LED PENDANT FIXTURE MODEL GALLERY 1970LED, 158 W, 21,240 LUMENS, TYPE III DISTRIBUTION, 4,000K CCT, 7-PIN PHOTOCONTROL RECEPTACLE WITH SHORTING CAP WIRED FOR 240 VOLT OPERATION (OR APPROVED EQUAL). NO PHOTOCELL REQUIRED. POLE MOUNTING HEIGHT 25 FT. POLES

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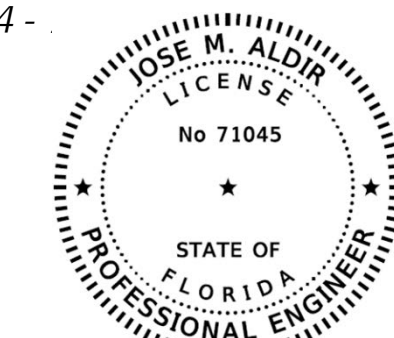
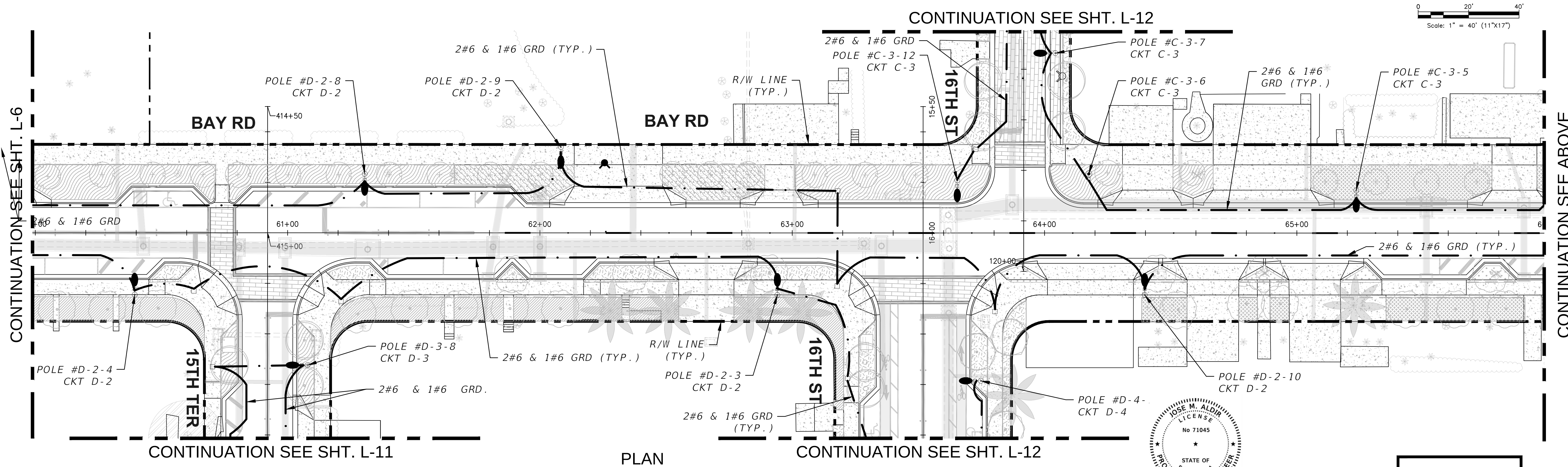
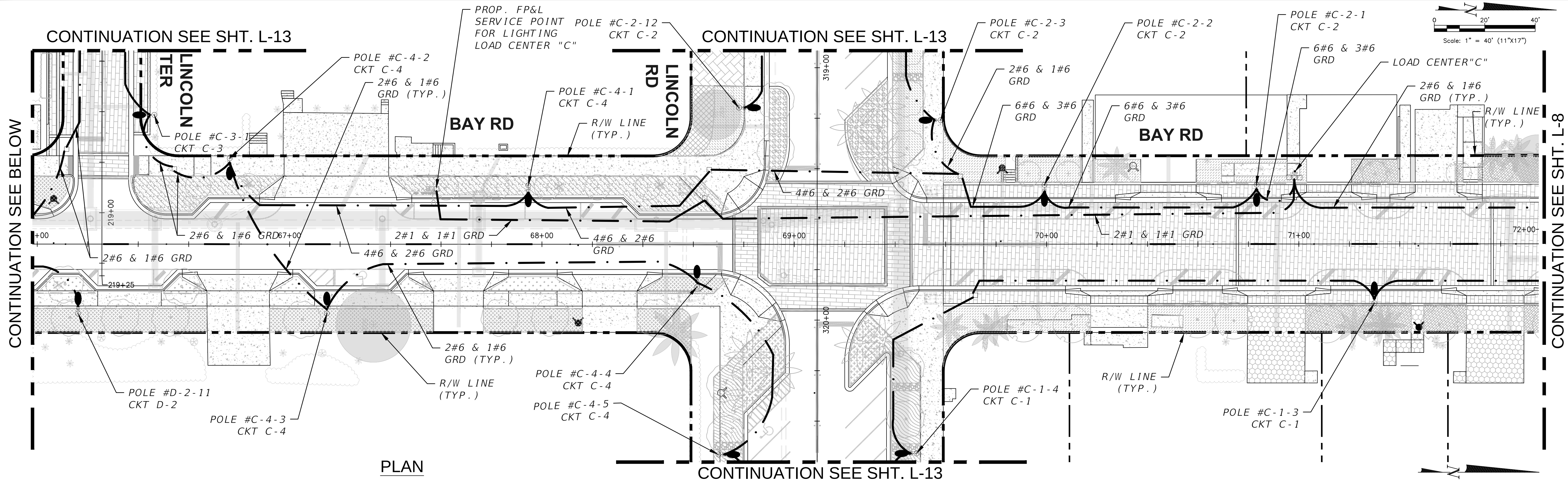


PERMIT SET

L-6

NO.	DATE	REVISION	APP'D. BY

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PERMIT SET

L-7

MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: **2016 - 091-KB WEST AVE PHASE II IMPROVEMENTS**
NORTH OF 14TH STREET
TITLE: **LIGHTING PLAN**

CWI
Civil Works, Inc.
Consulting Engineers CA 07528
8491 N.W. 17th Street, Suite 108
Doral, FL 33126 (305)914-3223

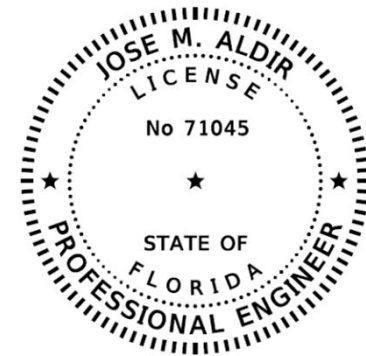
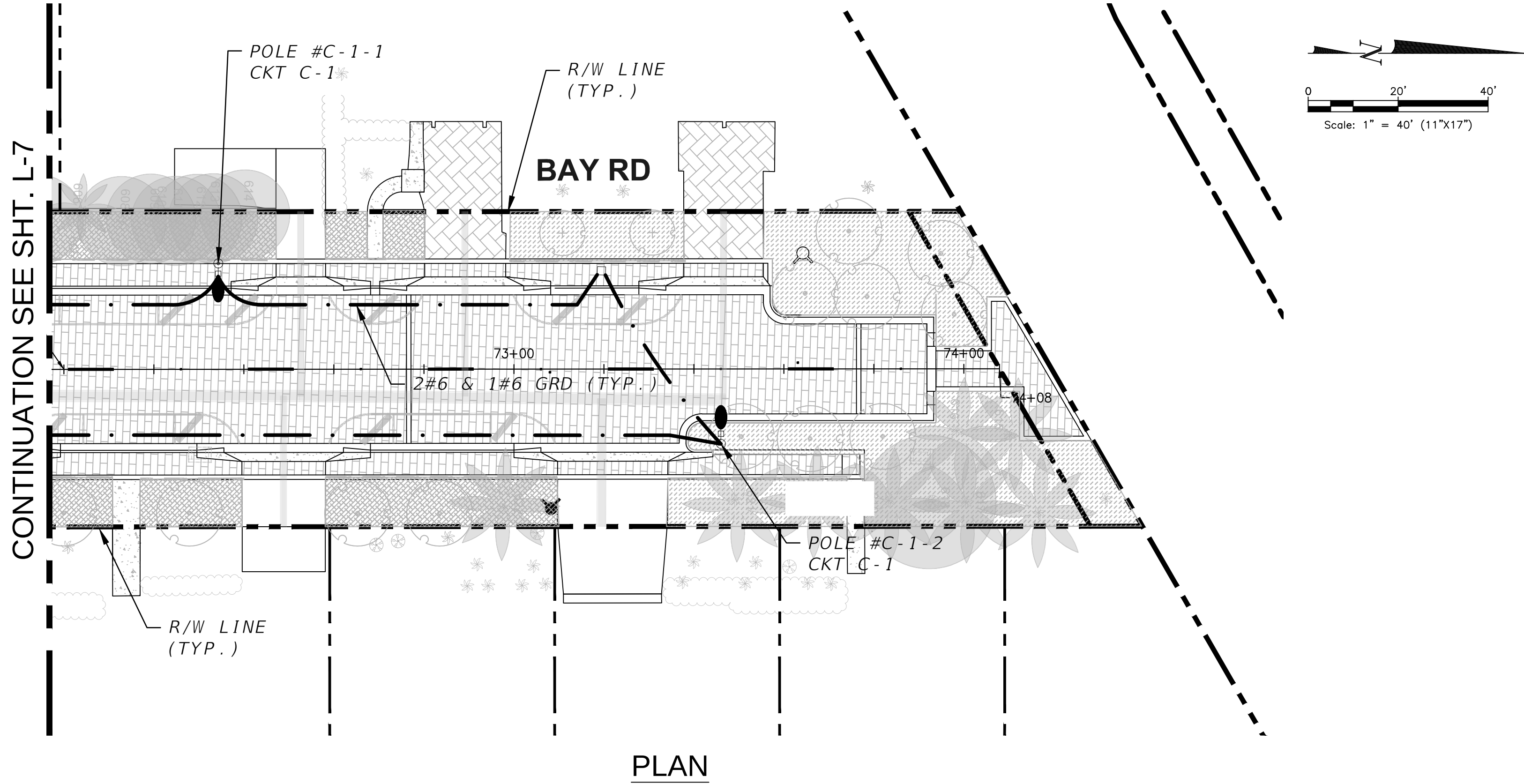
CITY MANAGER: ALINA T. HUDAK
PW DIRECTOR: JOSE GOMEZ, P.E.
CITY ENGINEER: CRISTINA ORTEGA, P.E.

ENG. OF RECORD: JMA
DESIGN ENGINEER: AA
DRAWN BY:
CHECKER:
SCALE: AS NOTED

ENGINEER OF RECORD:
JOSE M. ALDIR
FL REG No. 71045

NO.	DATE	REVISION	APP'D. BY

File Name: PLANLT02.DWG
Survey Reference:
Field Book: _____ Page: _____ Work Order: 2016-091-KB
Date: _____ Sheet: L-7 Drawing: PLANLT02



PERMIT SET

L-8

MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: **2016 - 091-KB WEST AVE PHASE II IMPROVEMENTS**
NORTH OF 14TH STREET
TITLE: **LIGHTING PLAN**

CWI
Civil Works, Inc.
Consulting Engineers CA 07532
8491 N.W. 17th Street, Suite 108
Doral, FL 33126 (305)591-4323

CITY MANAGER: ALINA T. HUDAK
PW DIRECTOR: JOSE GOMEZ, P.E.
CITY ENGINEER: CRISTINA ORTEGA, P.E.

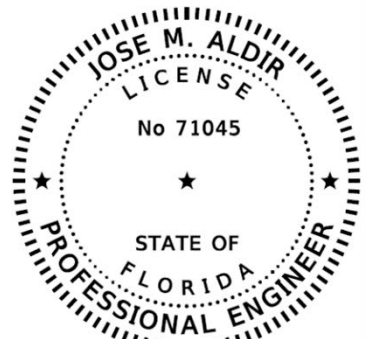
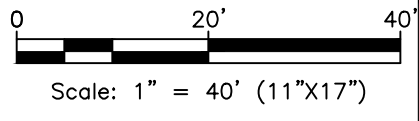
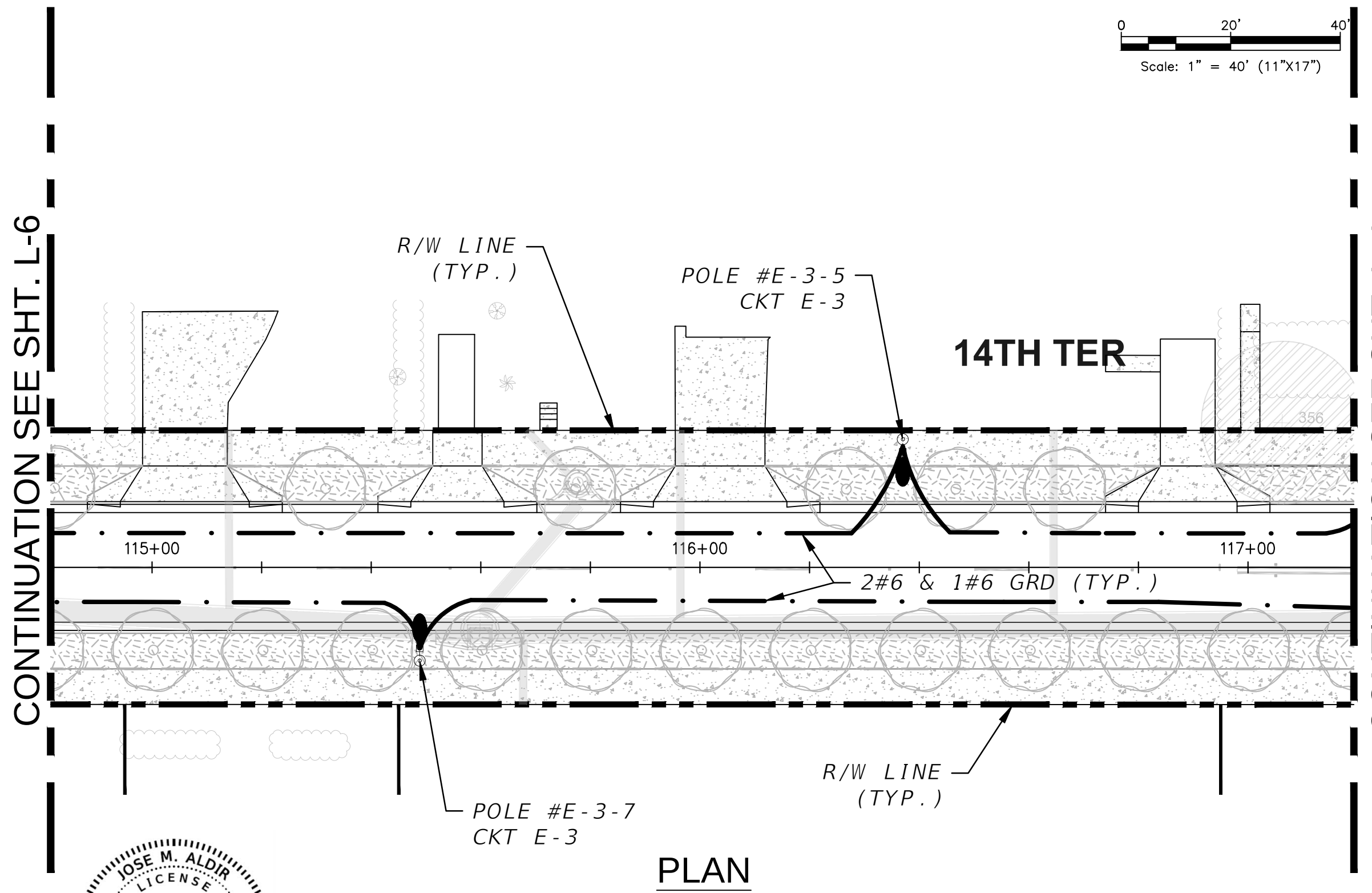
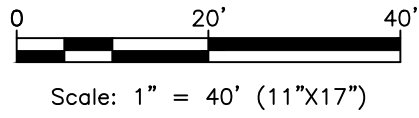
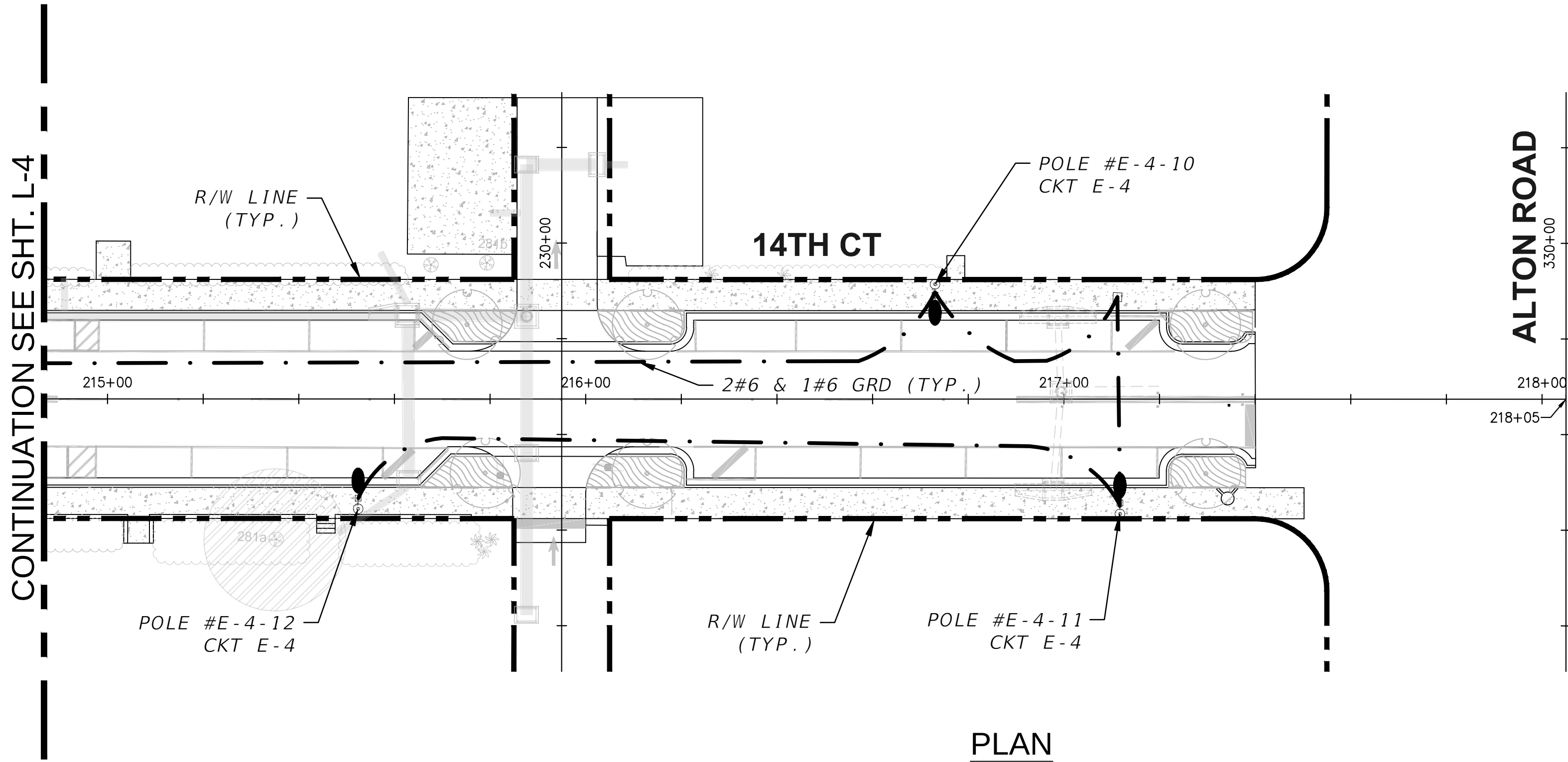
ENG. OF RECORD: JMA
DESIGN ENGINEER: AA
DRAWN BY:
CHECKER:
SCALE: AS NOTED

ENGINEER OF RECORD:
JOSE M. ALDIR
FL REG No. 71045

NO.	DATE	REVISION	APP'D. BY

File Name: PLANLT02.DWG
Survey Reference:
Field Book: _____ Page: _____ Work Order: 2016-091-KB
Date: _____ Sheet: L-8 Drawing: PLANLT02

\\COMPUTER-15\Projects\Server\023\projects\lighting\PLAN\L-9.dwg 5/23/2023 4:40:18 PM, AutoCAD PDF (General Documentation).pc3



PERMIT SET

L-9

MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: **2016 - 091-KB WEST AVE PHASE II IMPROVEMENTS**
NORTH OF 14TH STREET
TITLE: **LIGHTING PLAN**

CWI
Civil Works, Inc.
Consulting Engineers CA 07528
8491 N.W. 17th Street, Suite 108
Doral, FL 33126 (305)591-4323

CITY MANAGER: ALINA T. HUDAK
PW DIRECTOR: JOSE GOMEZ, P.E.
CITY ENGINEER: CRISTINA ORTEGA, P.E.

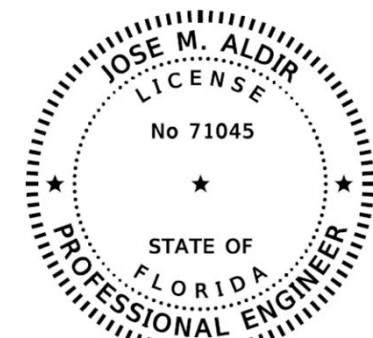
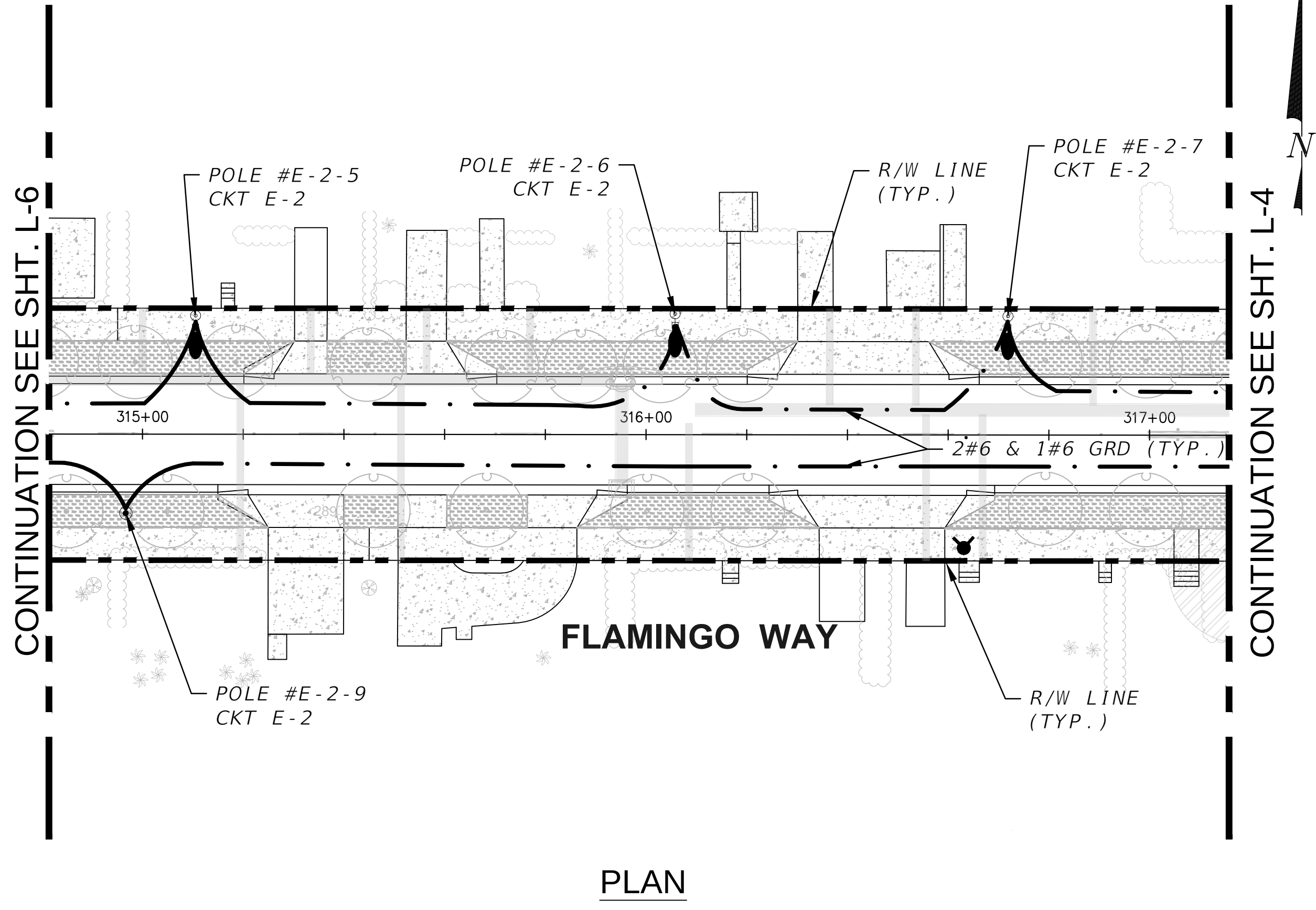
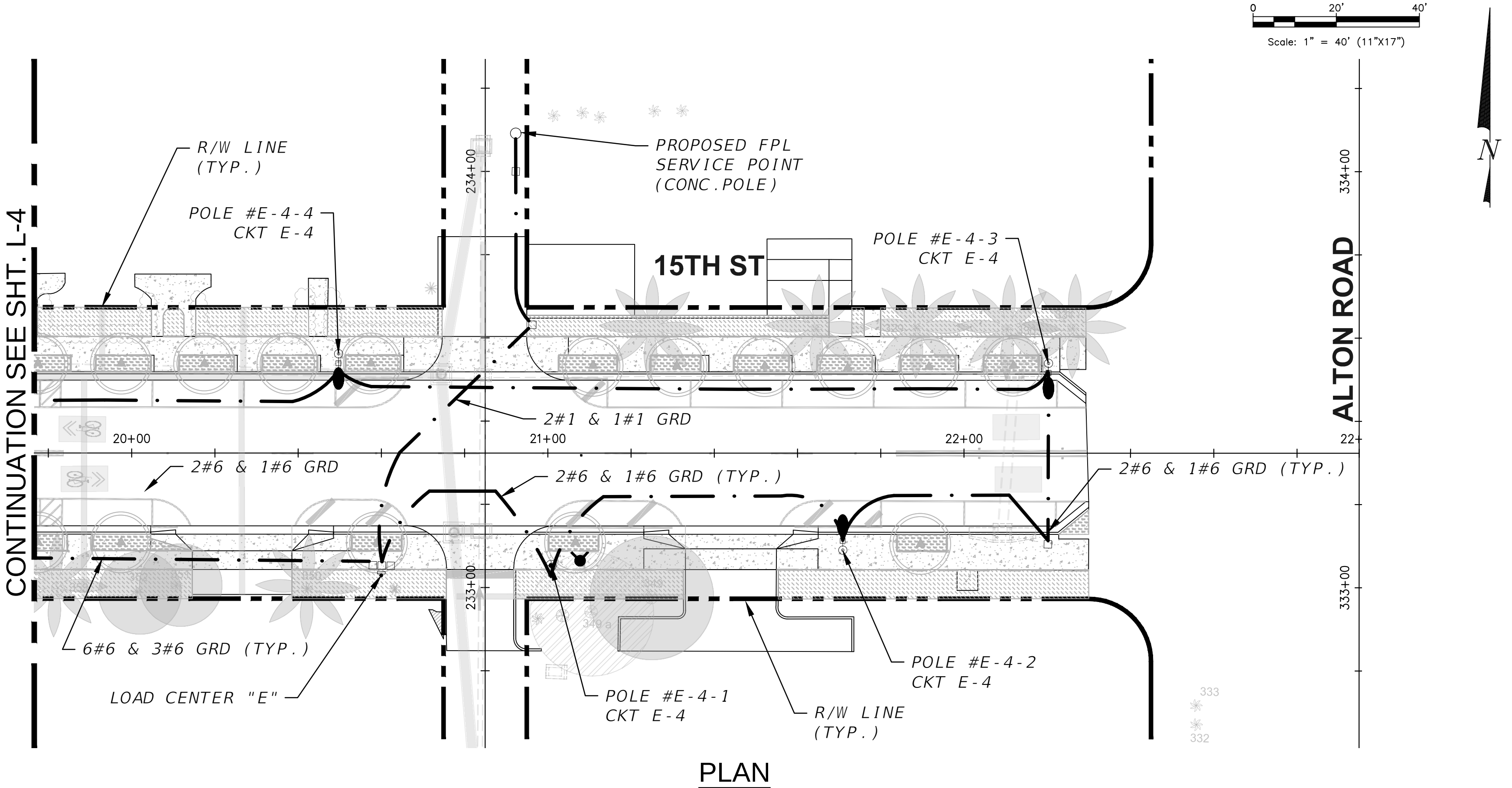
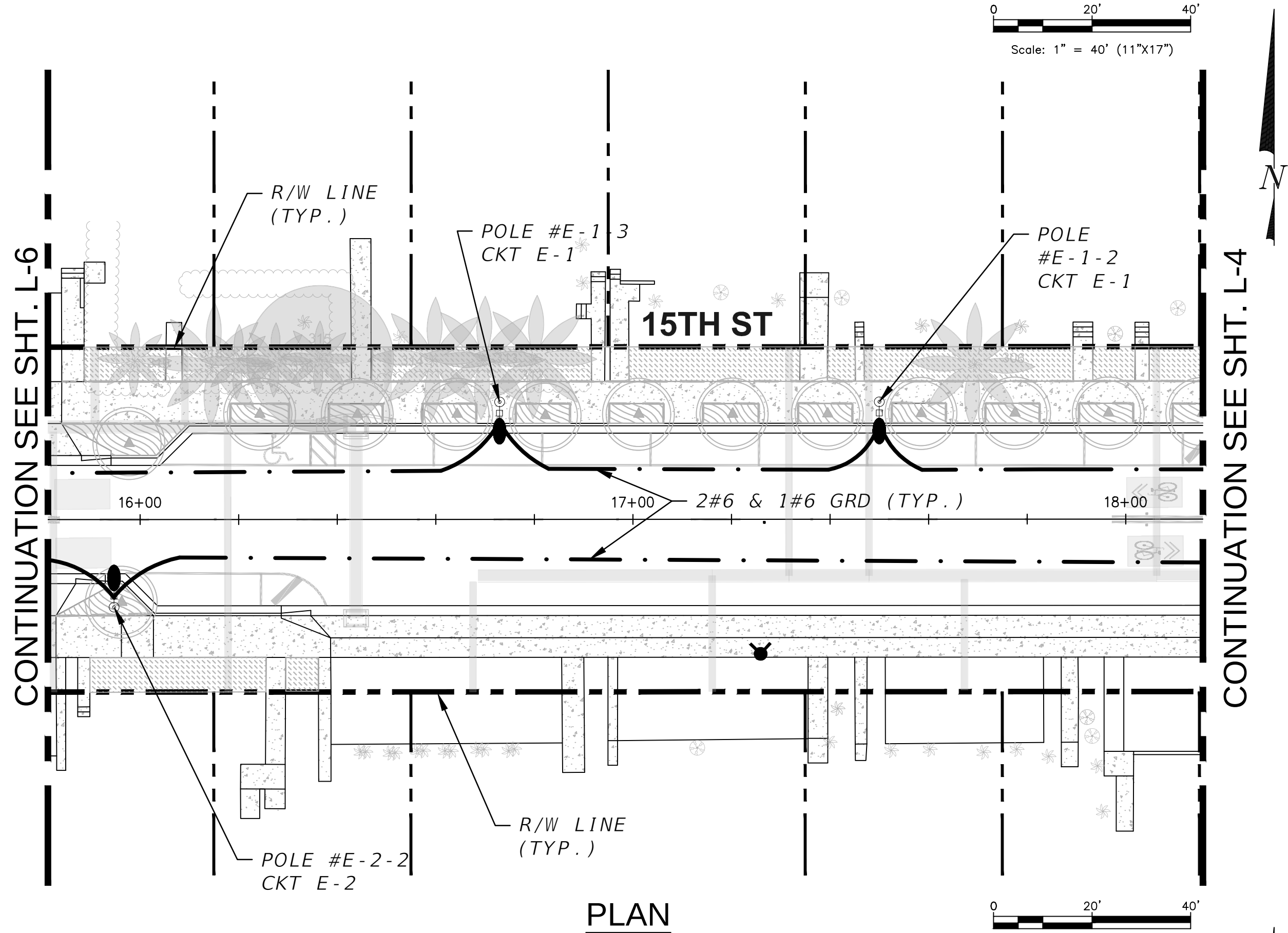
ENG. OF RECORD: JMA
DESIGN ENGINEER: AA
DRAWN BY: RR
CHECKER:
SCALE: AS NOTED

ENGINEER OF RECORD:
JOSE M. ALDIR
FL REG No. 71045

NO.	DATE	REVISION	APP'D. BY

File Name: PLANLT02.DWG
Survey Reference:
Field Book: _____ Page: _____ Work Order: 2016-091-K8
Date: _____ Sheet: L-9 Drawing: PLANLT02

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PERMIT SET

L-10

MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: **2016 - 091-KB WEST AVE PHASE II IMPROVEMENTS**
NORTH OF 14TH STREET
TITLE: **LIGHTING PLAN**

CWI
Civil Works, Inc.
Consulting Engineers CA 07528
8491 N.W. 17th Street, Suite 108
Doral, FL 33126 (305)591-4323

CITY MANAGER: ALINA T. HUDAK
PW DIRECTOR: JOSE GOMEZ, P.E.
CITY ENGINEER: CRISTINA ORTEGA, P.E.

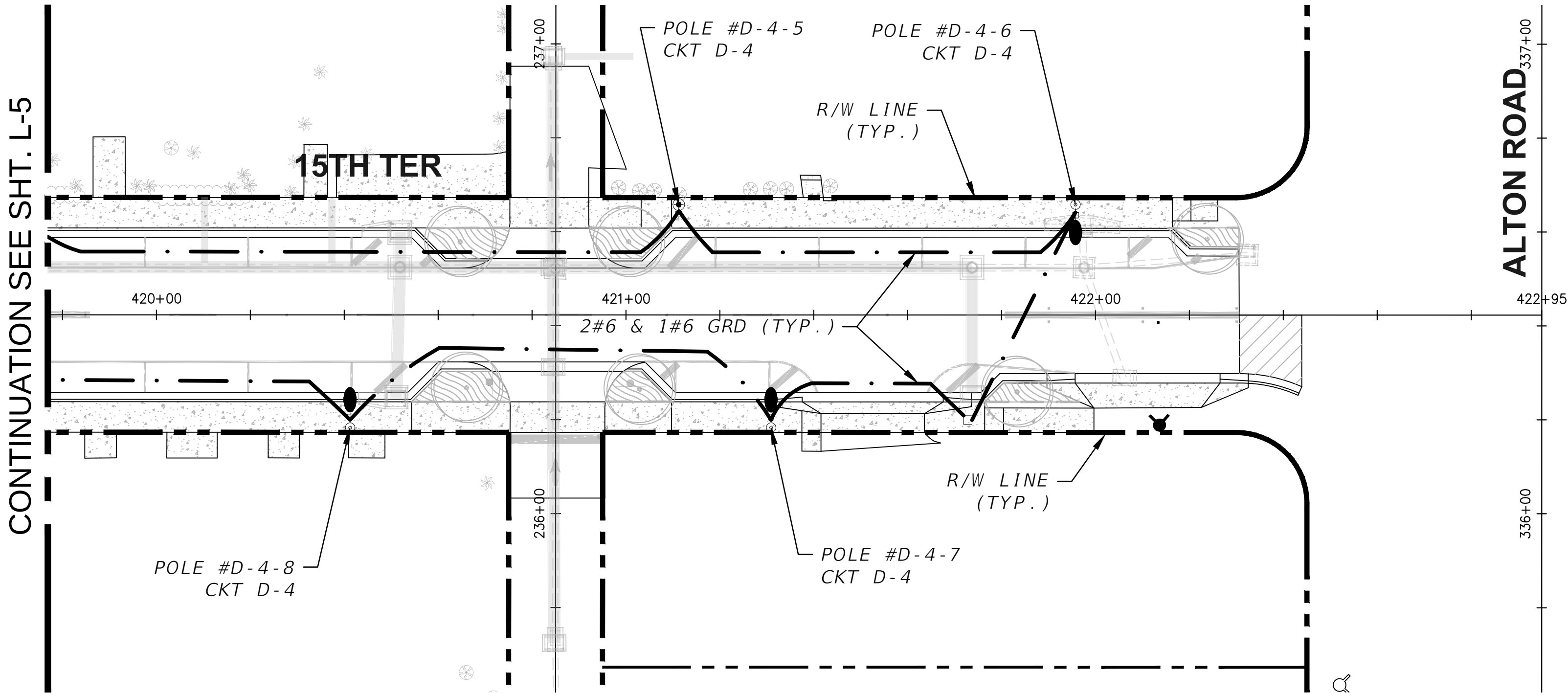
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CHECKER:
SCALE: AS NOTED

ENGINEER OF RECORD:
JOSE M. ALDIR
FL REG No. 71045

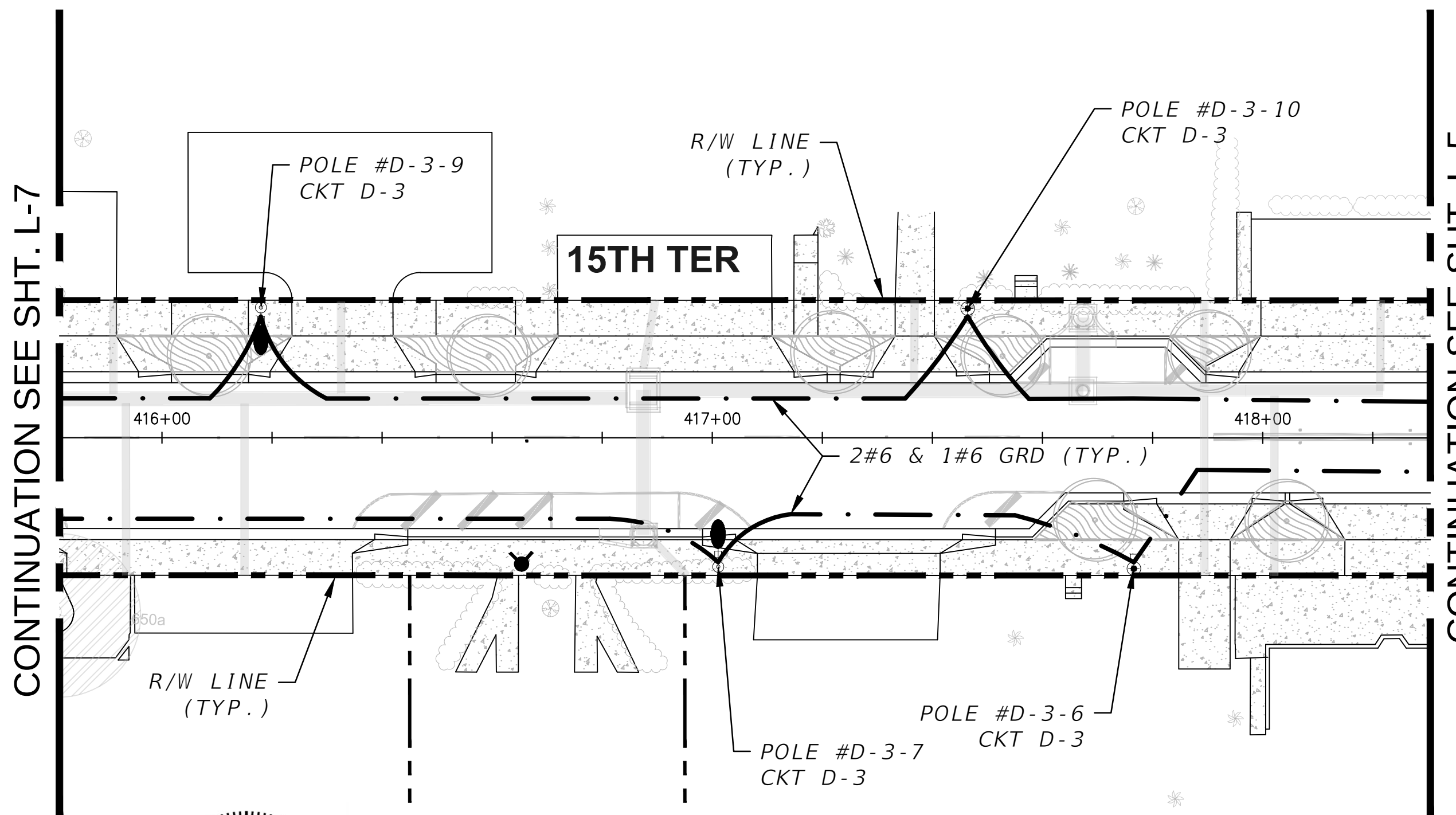
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Field Book: _____ Page: _____ Work Order: 2016-091-KB
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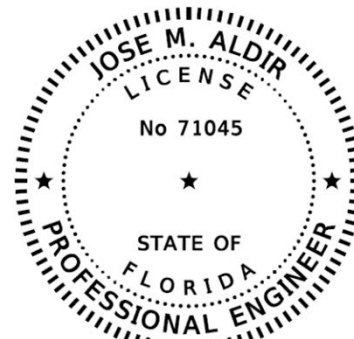
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PLAN



PLAN



PERMIT SET

L-11

MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: **2016 - 091-KB WEST AVE PHASE II IMPROVEMENTS**
NORTH OF 14TH STREET
TITLE: **LIGHTING PLAN**

CWI
Civil Works, Inc.
Consulting Engineers CA 07528
8491 N.W. 17th Street, Suite 108
Doral, FL 33126 (305)591-4323

CITY MANAGER: ALINA T. HUDAK
PW DIRECTOR: JOSE GOMEZ, P.E.
CITY ENGINEER: CRISTINA ORTEGA, P.E.

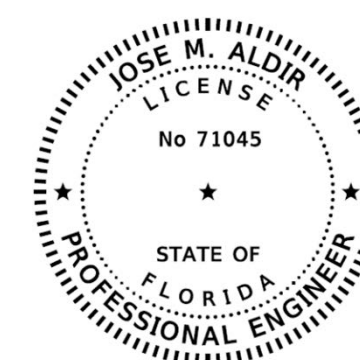
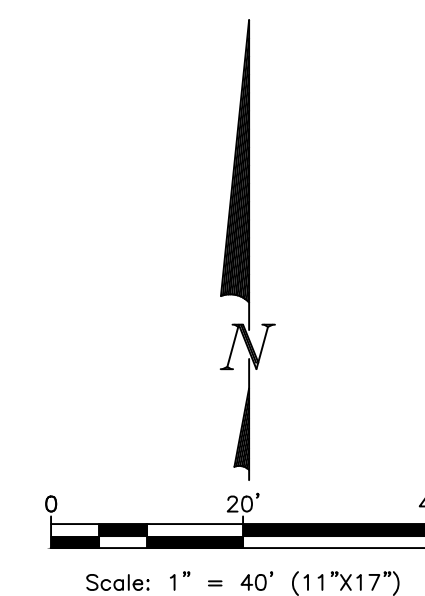
ENG. OF RECORD: JMA
DESIGN ENGINEER: AA
DRAWN BY: RR
CHECKER:
SCALE: AS NOTED

ENGINEER OF RECORD:
JOSE M. ALDIR
FL REG No. 71045

NO.	DATE	REVISION	APP'D. BY

File Name: PLANLT02.DWG
Survey Reference:
Field Book: _____ Page: _____ Work Order: 2016-091-KB
Date: _____ Sheet: **L-11** Drawing: PLANLT02

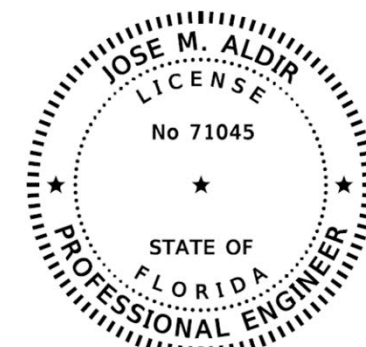
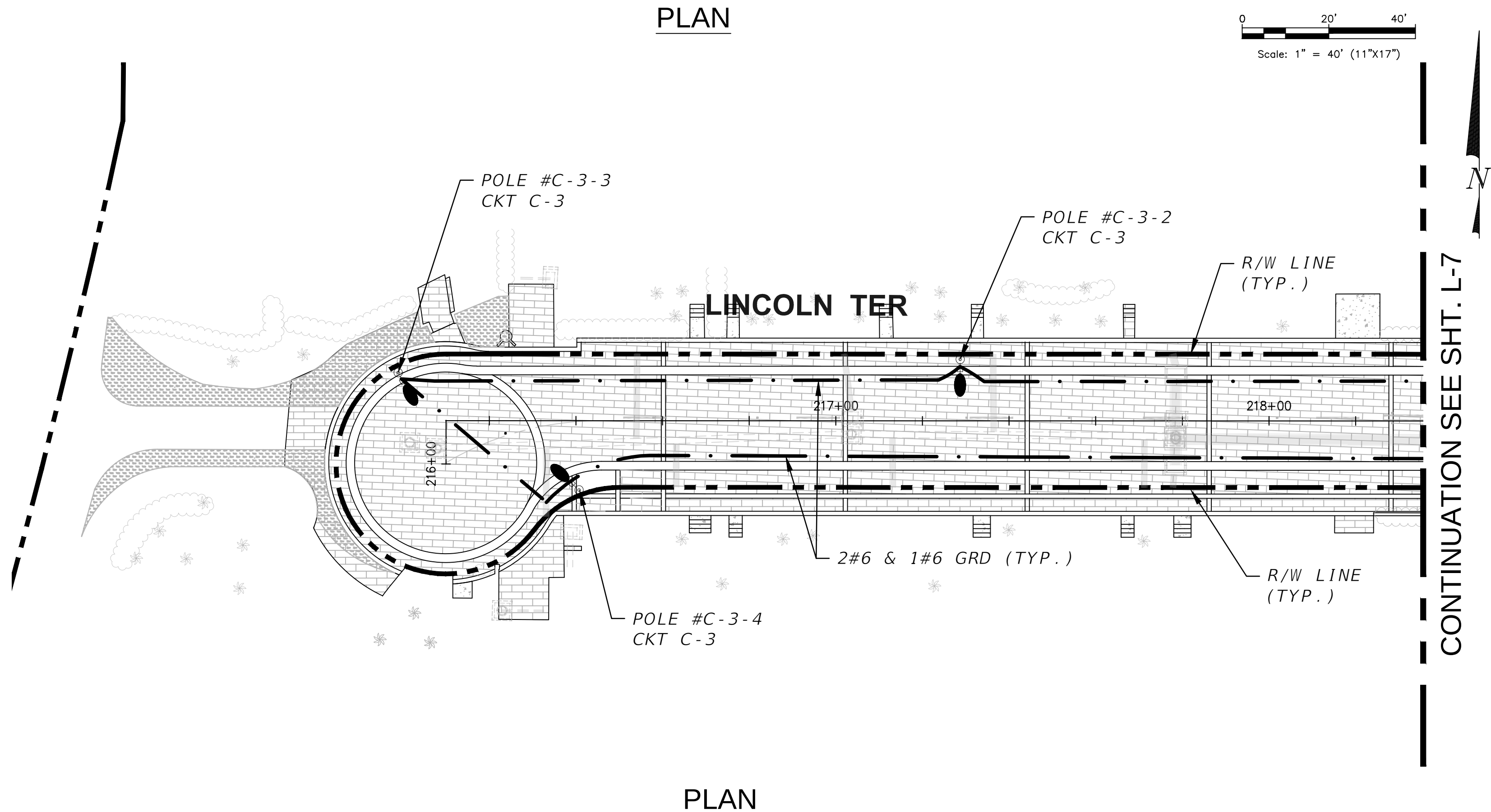
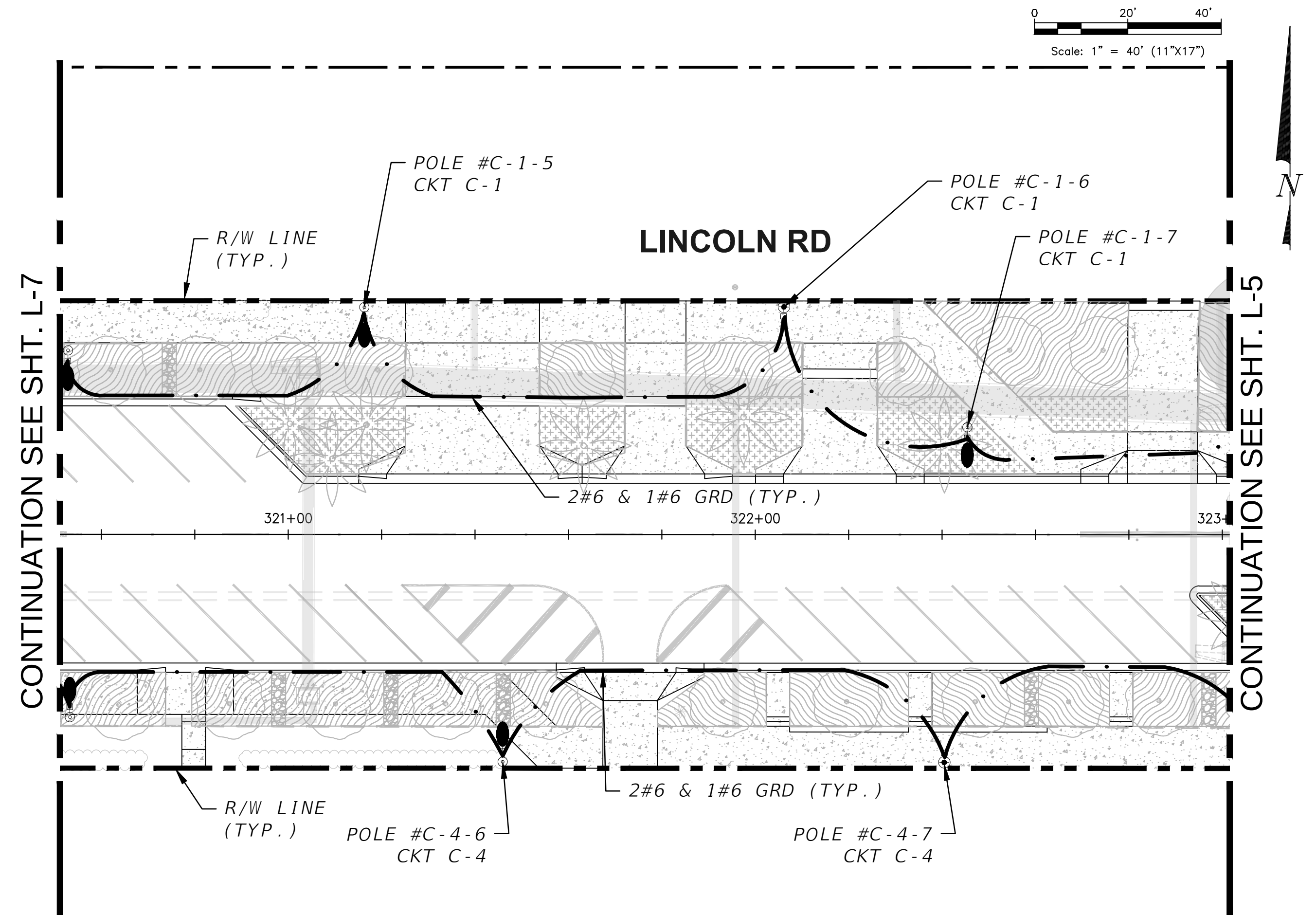
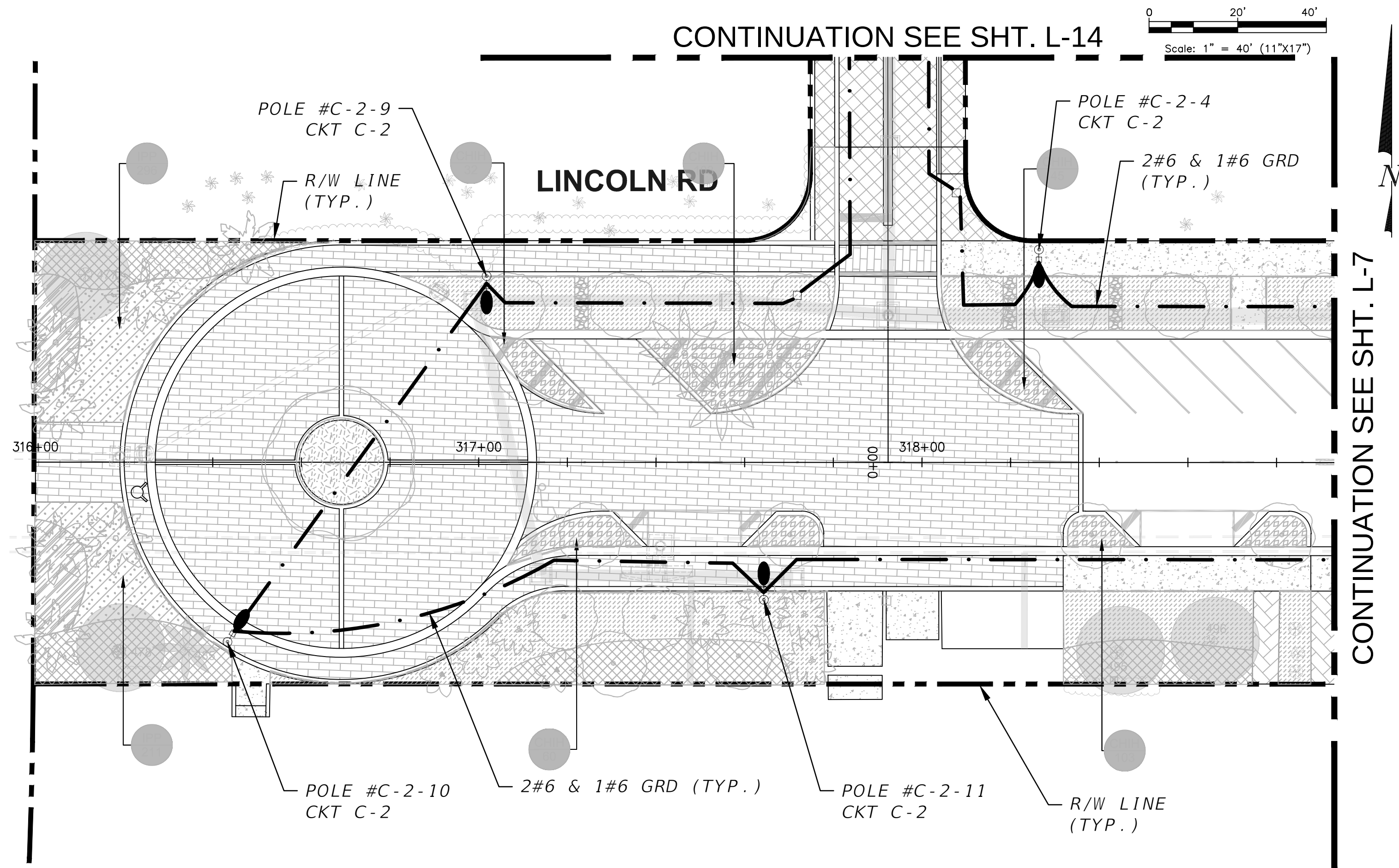
SERVICE POINT IS LOCATED
ALONG EAST SIDE OF ALLEY
APPROX. 130' SOUTH OF 16 ST
R/W LINE.
COORDINATE LOCATION WITH
FPL.



PERMIT SET

L-12

\\COMPUTER-15\Projects\Server\023\Projects\Lighting\PLAN\L-13\DWG-5\23\023-50703 PM, AutoCAD PDF (General Documentation).pc3



PERMIT SET

L-13

MIAMI BEACH
PUBLIC WORKS DEPARTMENT
1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

NEIGHBORHOOD: **2016 - 091-KB WEST AVE PHASE II IMPROVEMENTS**
NORTH OF 14TH STREET

TITLE: **LIGHTING PLAN**

CWI
Civil Works, Inc.
Consulting Engineers CA 07528
8491 N.W. 17th Street, Suite 108
Doral, FL 33126 (305)591-4323

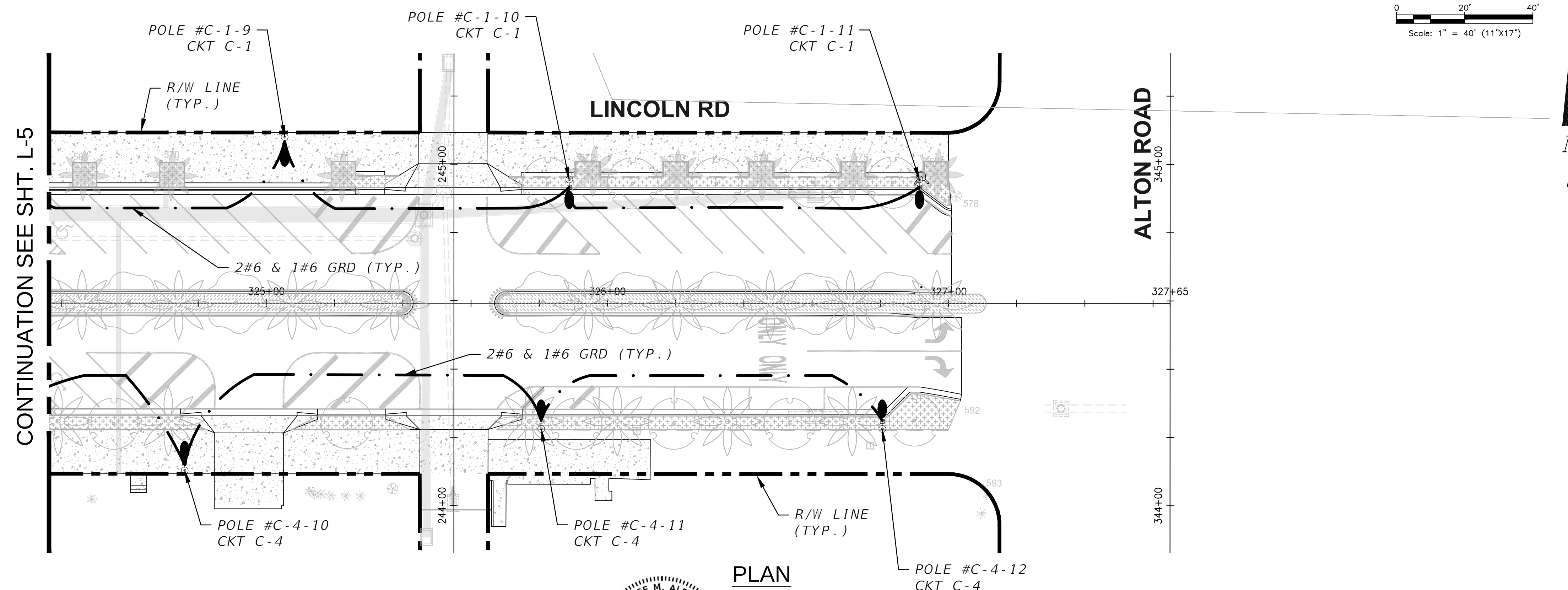
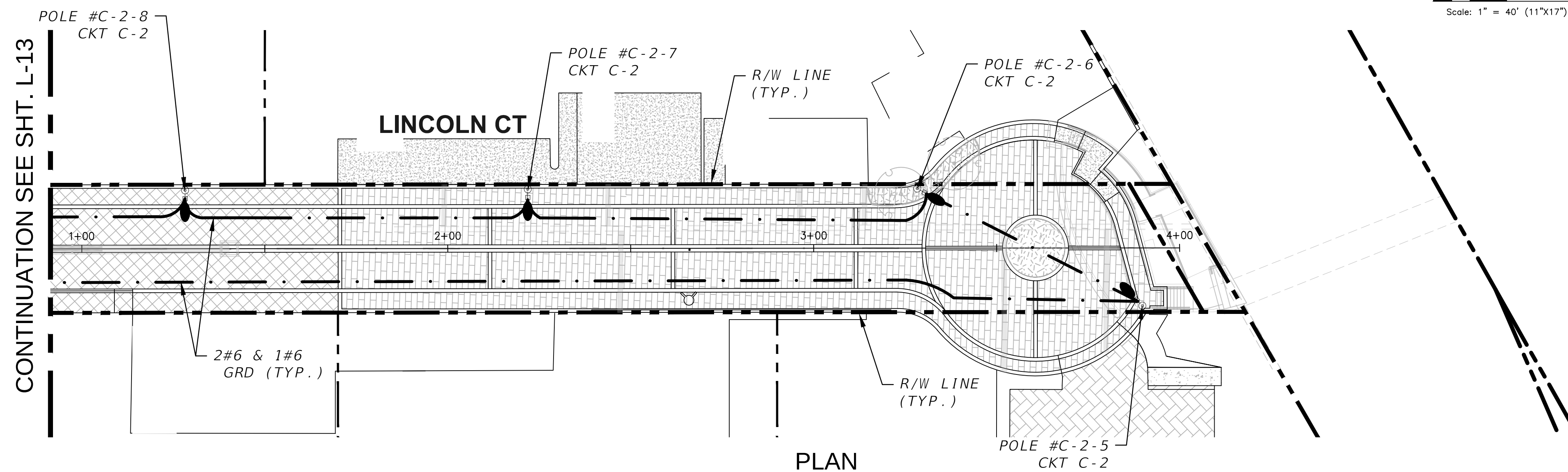
CITY MANAGER: ALINA T. HUDAK
PW DIRECTOR: JOSE GOMEZ, P.E.
CITY ENGINEER: CRISTINA ORTEGA, P.E.

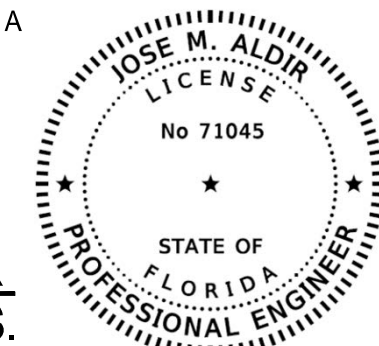
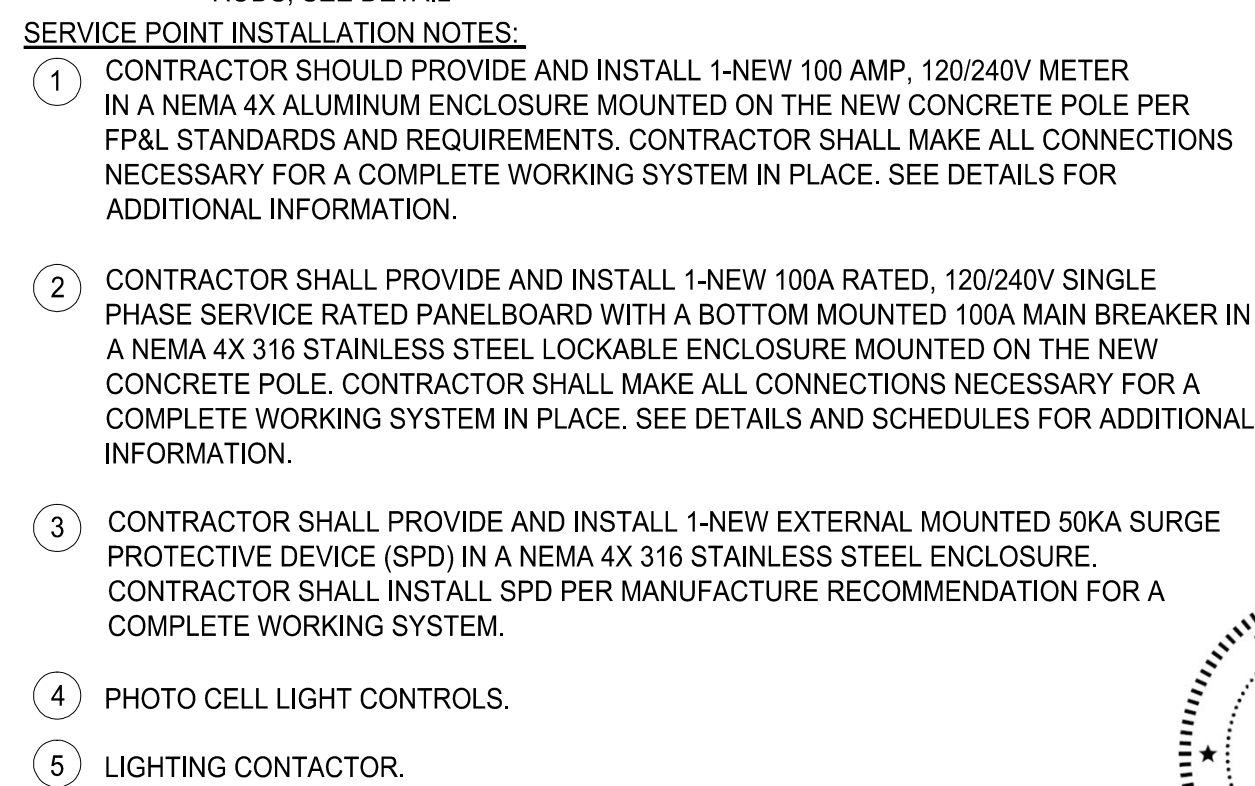
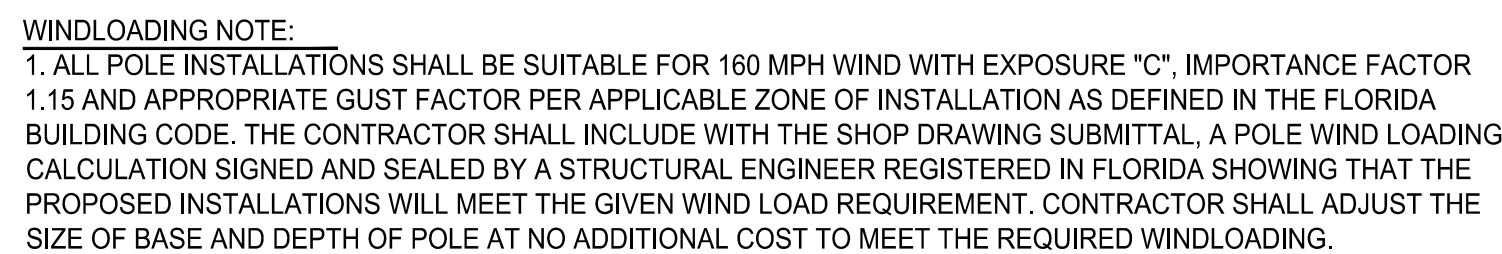
ENG. OF RECORD: JMA
DESIGN ENGINEER: AA
DRAWN BY: RR
CHECKER:
SCALE: AS NOTED

ENGINEER OF RECORD:
JOSE M. ALDIR
FL REG No. 71045

NO.	DATE	REVISION	APP'D. BY

File Name: PLANLT02.DWG
Survey Reference:
Field Book: _____ Page: _____ Work Order: 2016-091-KB
Date: _____ Sheet: **L-13** Drawing: PLANLT02





Load Center E						
120V/240V, Single Phase, 3-Wire, MBC: 100A						
Ckt No.	Prop. Load (A)	Breaker (A)	Continuous Load (VA)	25% Continuous Load (VA)	Total Load (VA)	Current (A)
E-1	8.82	40	2115.78	528.9	2644.7	11.1
E-2	8.82	40	2115.78	528.9	2644.7	11.1
E-3	8.44	40	2024.67	506.2	2530.8	10.6
E-4	8.44	40	2024.67	506.2	2530.8	10.6

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