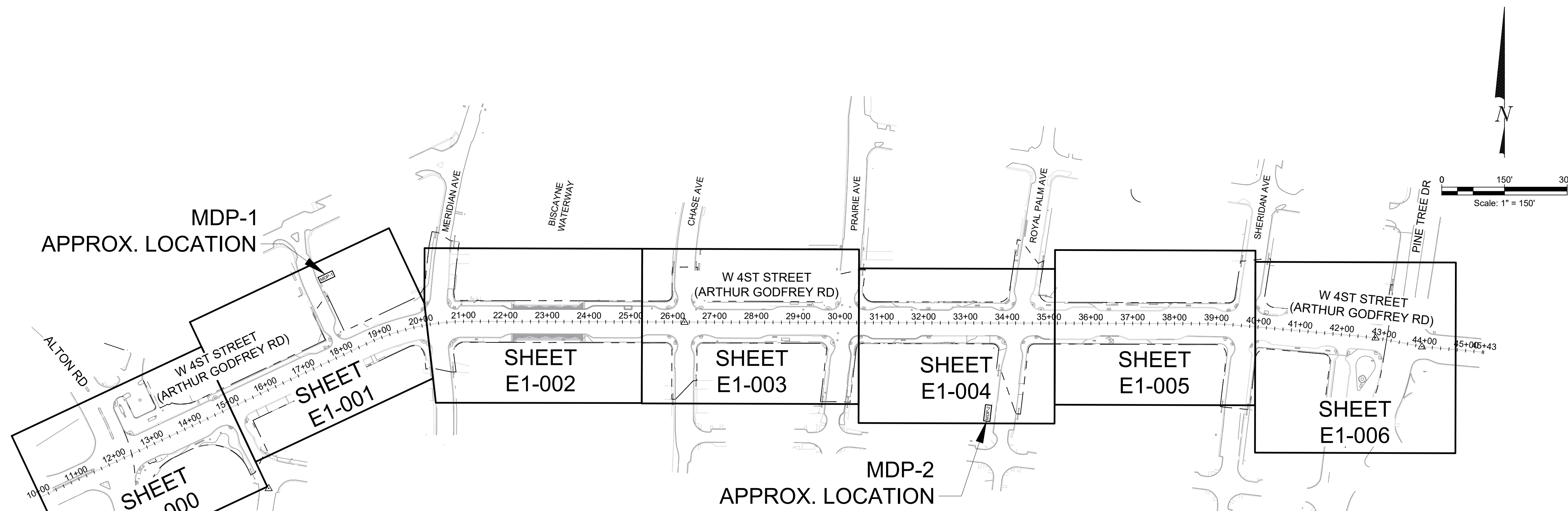


NOTES:



PLAN SYMBOLS

NEW LIGHTING		---		EXIST. R/W LINE
	ART RING LIGHTS	---	C/L OF CONSTRUCTION	
	PALM TREE RING W/ 4 ADJUSTABLE ACCENTS LIGHTS	---	C	COMMUNICATION LINE
	TREE STRAP MOUNTED LED ADJUSTABLE ACCENT LIGHT	---	---	UNDERGROUND CONDUIT
	STRIP LIGHTS INTEGRATED INTO SEAT WALL		T	TRANSFORMER
	LIGHTING HANDHOLE		GF	GFCI RECEPTACLE
EXISTING LIGHTING				
	STANDARD STREET LAMP FLORIDA DOT			
	STANDARD STREET LAMP/DOUBLE - CITY OF MIAMI BEACH			
	STANDARD STREET LAMP/SINGLE - CITY OF MIAMI BEACH			
TRAFFIC				
	TRAFFIC CAMERA			
	TRAFFIC HANDHOLE			

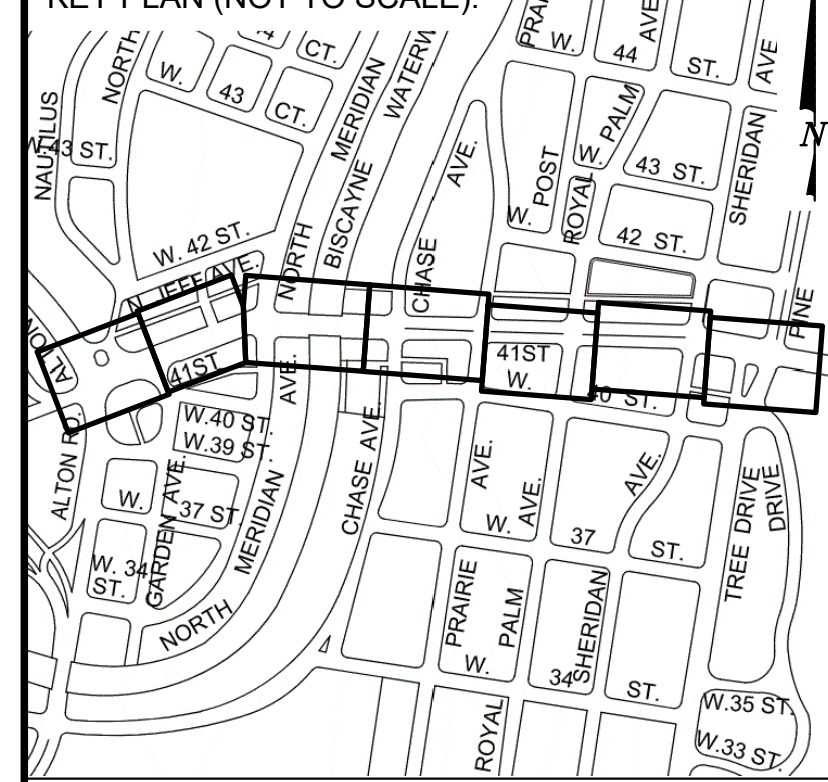
ABBREVIATIONS

A	AMPERE	Hz	HERTZ
ABV	ABOVE	IC	INTERRUPTING CAPACITY
AC	ALTERNATING CURRENT	JB	JUNCTION BOX
AF	AMPERE FRAME	KW	KILOWATTS
AIC	ASYMMETRICAL INTERRUPTING CAPACITY	kVA	KILOVOLT AMPERE
ARCH	ARCHITECT/ARCHITECTURAL	LP	LIGHTING PANEL
AT	AMPERE TRIP	LTG	LIGHTING, LIGHT OR LIGHTS
AUTO	AUTOMATIC	MAX	MAXIMUM
C	CONDUIT	MCB	MOLDED CASE BREAKER
CB	CIRCUIT BREAKER, COMBINER BOX	MDP	MAIN DISTRIBUTION PANEL
CKT	CIRCUIT	MECH	MECHANICAL
CONN	CONNECTION, OR CONNECT	MIN	MINIMUM
CONTR	CONTRACTOR	MFR	MANUFACTURER
COORD	COORDINATE	MTD	MOUNTED
CPT	CONTROL POWER TRANSFORMER	NF	NON FUSED
CT	CURRENT TRANSFORMER	NO	NORMALLY OPEN
DET	DETAIL	Ø	PHASE
DIST	DISTRIBUTION	PNL	PANEL
DS	DISCONNECT SWITCH	PT	POTENTIAL TRANSFORMER
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EA	EACH	RMC	RIGID METAL CONDUIT
ELECT	ELECTRICAL	SHT	SHEET
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEMS	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SPD	SURGE PROTECTION DEVICE
EXPL	EXPLOSION PROOF	XFMR	TRANSFORMER
F	FUSED	TYP	TYPICAL
FUT	FUTURE	UNO	UNLESS NOTED OTHERWISE
FIXT	FIXTURE LTG	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
GND	GROUND	VA	VOLT AMPERE
GRD	GROUND	W	WATTS
HH	HAND HOLE	WP	WEATHERPROOF
HOA	HAND - OFF - AUTO		

GENERAL ELECTRICAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH FP&L FOR ALL WORK RELATED TO DISCONNECTING THE EXISTING LIGHTS, AND ENERGIZING THE NEW POWER DISTRIBUTION SYSTEM.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL INSTALLATIONS WITH ALL OTHER TRADES TO AVOID ANY CONFLICTS WITH PIPING, STRUCTURE, ETC.
3. ALL CONDUCTOR SIZES SPECIFIED FOR POWER CIRCUITS ARE BASED ON A SINGLE DEDICATED CIRCUIT PER CONDUIT WITH NO MORE THAN THREE CURRENT CARRYING CONDUCTORS IN THE CONDUIT. IF THE CONTRACTOR CONSOLIDATES TWO OR MORE CIRCUITS INTO A CONDUIT THEN THE CONTRACTOR SHALL INCREASE THE CONDUCTORS SIZES TO COMPENSATE FOR THE DE-RATING OF CONDUCTOR AMPACITY AS REQUIRED BY THE NEC WHEN THERE ARE MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT. THE CONTRACTOR SHALL ALSO INSURE THE CONDUIT IS NOT FILLED OVER 40% CAPACITY.
4. ALL NEW WIRING SHALL BE INSTALLED IN CONDUIT WITHOUT EXCEPTION. MINIMUM SIZE CONDUIT SHALL BE 1"
5. ALL CONDUCTORS SHALL BE TYPE USE/RHW-2-XLP (OTHER TYPE OF CONDUCTOR IS NOT ALLOWED EXCEPT GROUND WIRE WHICH SHALL BE TYPE THW OR THWN).
6. THE USE OF NO. 14 AWG COPPER CONDUCTORS SHALL BE RESTRICTED TO CONTROL AND INSTRUMENT WIRING.
7. ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE N.E.C.
8. ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF NEW RACEWAYS OR EQUIPMENT SHALL BE PERFORMED BY A TRADESMAN EXPERIENCED IN THE WORK REQUIRED. ALL FINISHES SHALL MATCH EXISTING ADJACENT SURFACES.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY HIM OR HIS WORKMAN TO THE FACILITY DURING THE COURSE OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING SUCH LOSS OR DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
10. ALL ELECTRICAL EQUIPMENT INSTALLED ON A ROOF OR AN OUTDOOR AREA SHALL BE NEMA 3R OR 4X RATED.
11. THE ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE AND SERVING ELECTRICAL UTILITY CODES, ORDINANCES, RULES AND REGULATIONS. THE ENTIRE ELECTRICAL INSTALLATION SHALL COMPLY WITH OR SURPASS THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
12. ALL MATERIALS FURNISHED BY THE ELECTRICAL CONTRACTOR SHALL BE NEW AND OF FIRST CLASS QUALITY, SHALL BE U.L. LISTED AND FREE OF ANY DEFECTS UNLESS OTHERWISE NOTED ON PLANS.
13. ALL EQUIPMENT SHALL BE RATED FOR USE INTENDED - VOLTAGE, H.P., ETC. ALL DISCONNECT SWITCHES FURNISHED SHALL BE LOAD BREAK RATED.
14. ALL NECESSARY PERMITS REQUIRED FOR ELECTRICAL INSTALLATIONS ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE CONSIDERED TO BE PART OF HIS CONTRACT FEE.
15. THE ELECTRICAL CONTRACTOR SHALL FULLY GUARANTEE HIS INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST IMPERFECT WORKMANSHIP AND MALFUNCTION OF EQUIPMENT. ANY WORK FOUND TO BE DEFECTIVE WITHIN THIS PERIOD SHALL BE REPAIRED OR REPLACED PROMPTLY AT NO ADDITIONAL COST TO THE OWNER.
16. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE, CONDUIT, ETC. THE EXACT LOCATION AND ARRANGEMENT OF ALL PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM.

KEY PLAN (NOT TO SCALE):



P.E. SEAL:



CITY MANAGER: ALINA T. HUDAK
 DIRECTOR: DAVID MARTINEZ, P.E.
 CITY ENGINEER: CRISTINA ORTEGA CASTINEIRAS, P.E.

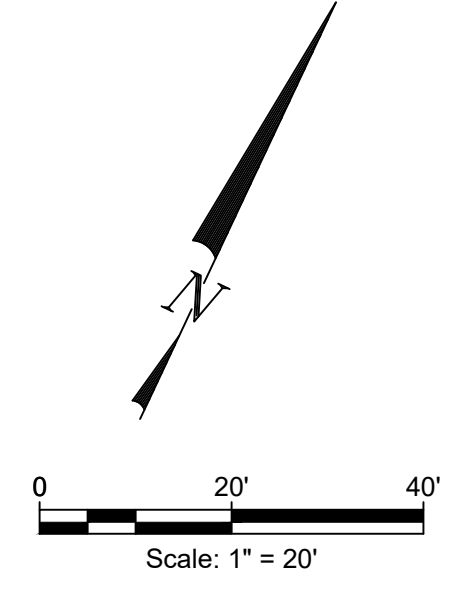
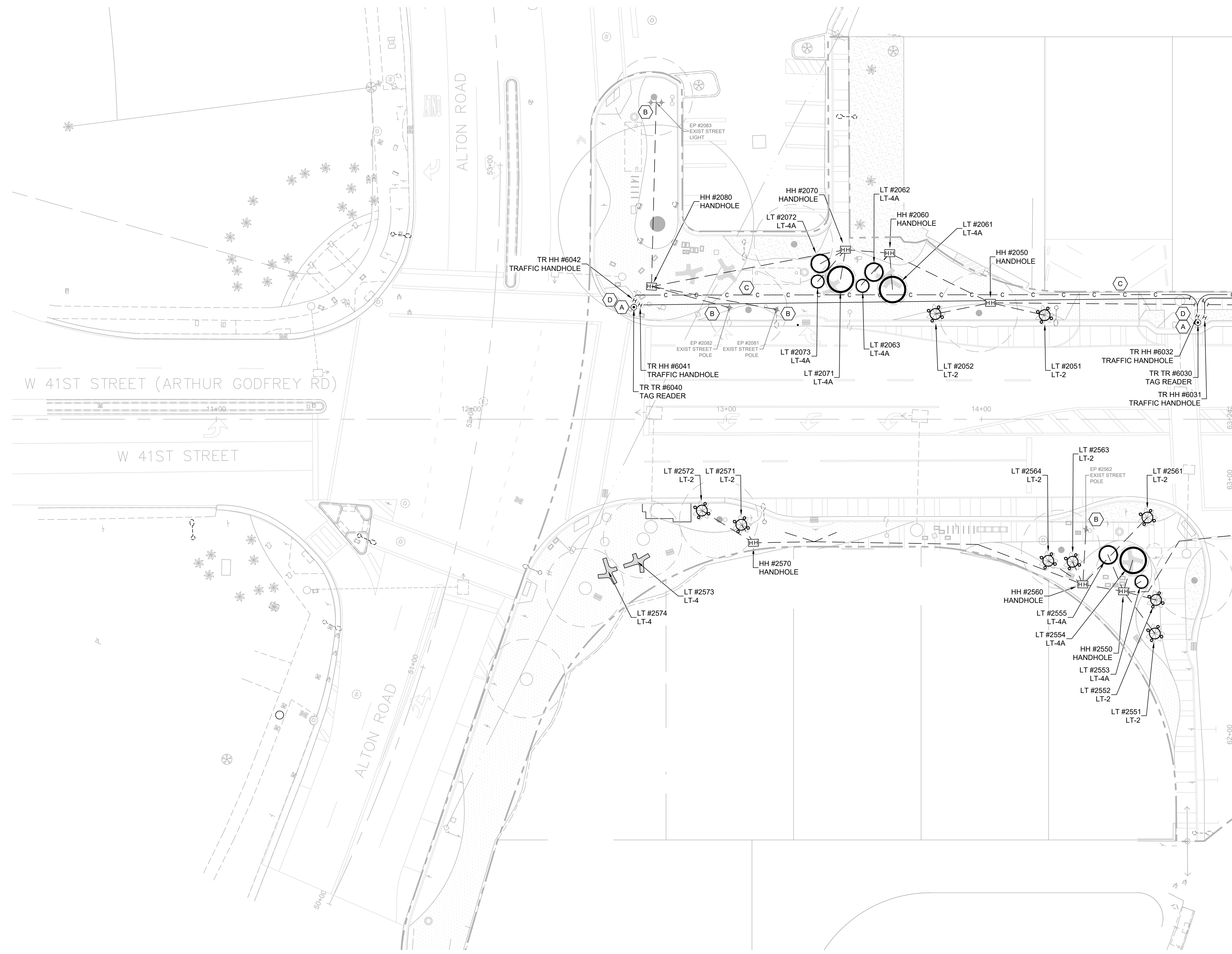
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 CHECKER: BCB
 SCALE: 1" = 50'

NEIGHBORHOOD:
41ST ST CORRIDOR REVITALIZATION PROJECT
 TITLE:
LIGHTING SITE KEY PLAN

File Name: 2023-E0-000.dwg
 Survey Reference:
 Field Book: N/A Page: N/A Work Order: N/A
 Date: 4/17/2023 Sheet: # of 124 Drawing: E0-000



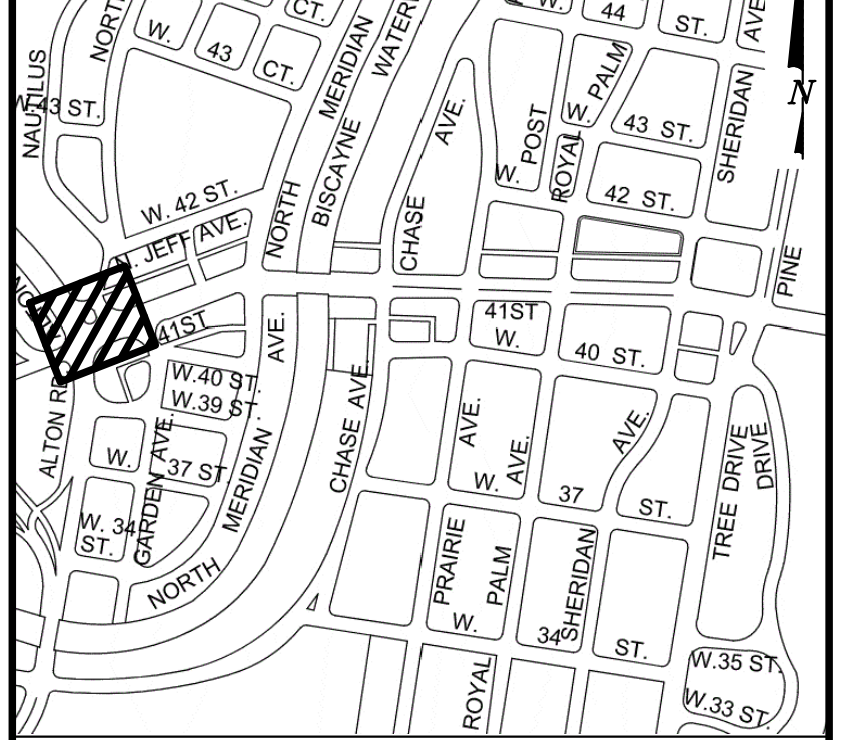
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SHEET KEYNOTES

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KEY PLAN (NOT TO SCALE):



P.E. SEAL:

MIAMI BEACH
OFFICE OF CAPITAL IMPROVEMENT PROJECTS
1701 MERIDIAN AVENUE, MIAMI BEACH, FL 33139

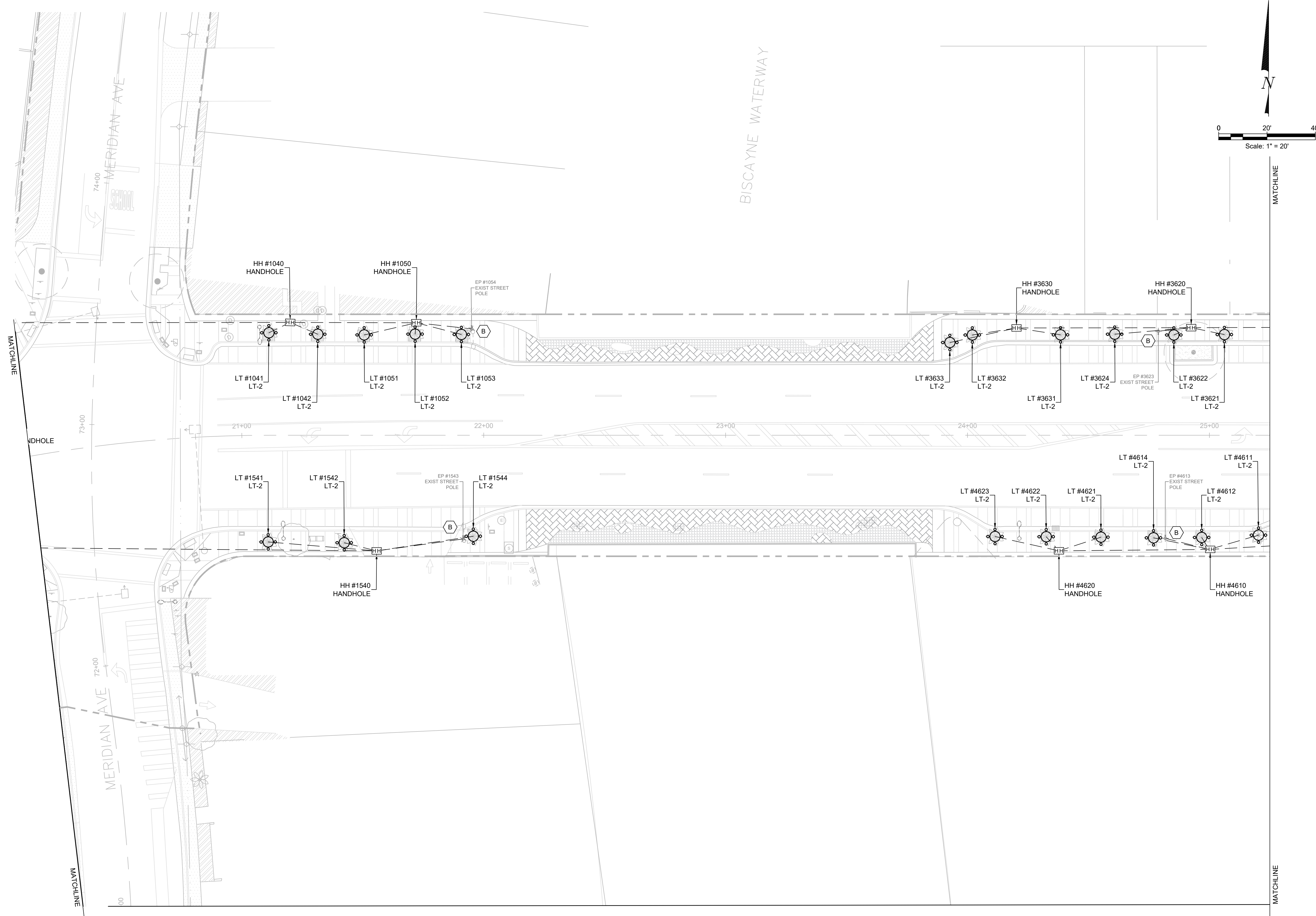
CITY MANAGER: ALINA T. HUDAK	5		
DIRECTOR: DAVID MARTINEZ, P.E.	4		
CITY ENGINEER: CRISTINA ORTEGA CASTINEIRAS, P.E.	3		
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CHECKER: BCB	SCALE: 1" = 20'

NEIGHBORHOOD:	41ST ST CORRIDOR REVITALIZATION PROJECT
TITLE:	LIGHTING PLANS

File Name:	2023-E1-000.dwg
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Sheet:	# of 124
Drawing:	E1-000



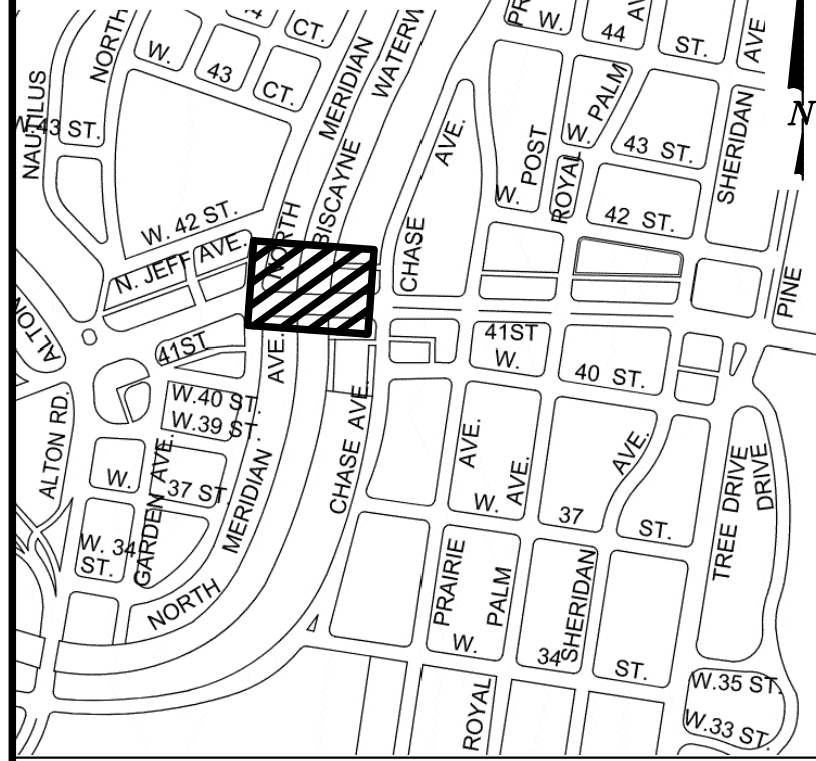
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OFFICE OF CAPITAL IMPROVEMENT PROJECTS
1701 MERIDIAN AVENUE, MIAMI BEACH, FL 33139

CITY MANAGER: ALINA T. HUDAK
DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: CRISTINA ORTEGA CASTINEIRAS, P.E.

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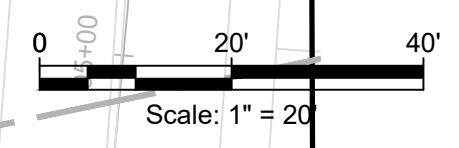
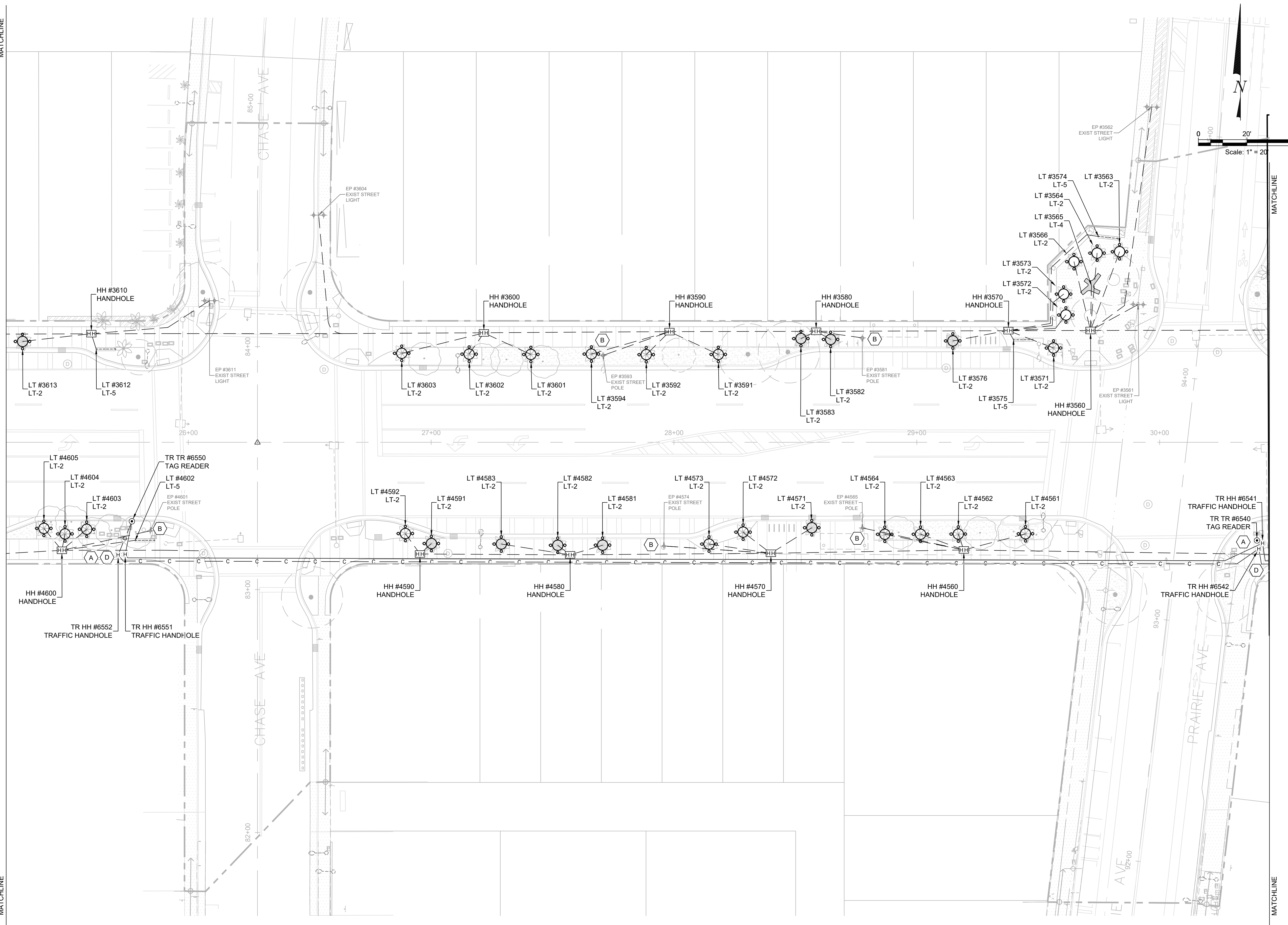
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NEIGHBORHOOD: **41ST ST CORRIDOR REVITALIZATION PROJECT**
TITLE: **LIGHTING PLANS**

File Name: 2023-E1-000.dwg
Survey Reference:
Field Book: N/A Page: N/A Work Order: N/A
Date: 4/17/2023 Sheet: # of 124 Drawing: E1-002

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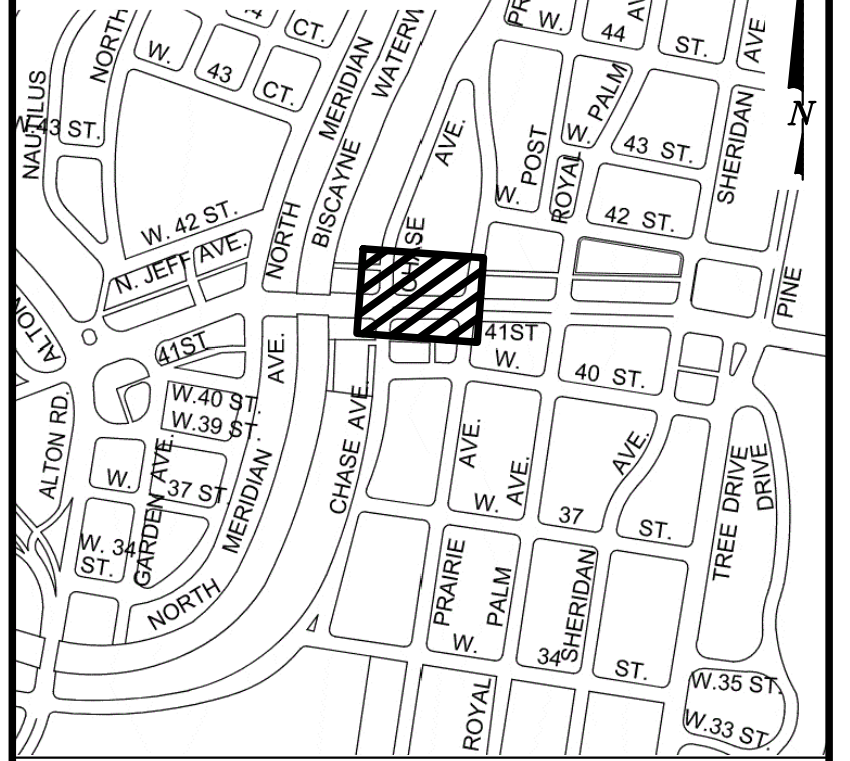
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KEY PLAN (NOT TO SCALE):



P.E. SEAL:

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OFFICE OF CAPITAL IMPROVEMENT PROJECTS
1701 MERIDIAN AVENUE, MIAMI BEACH, FL 33139

CITY MANAGER: ALINA T. HUDAK
DIRECTOR: DAVID MARTINEZ, P.E.
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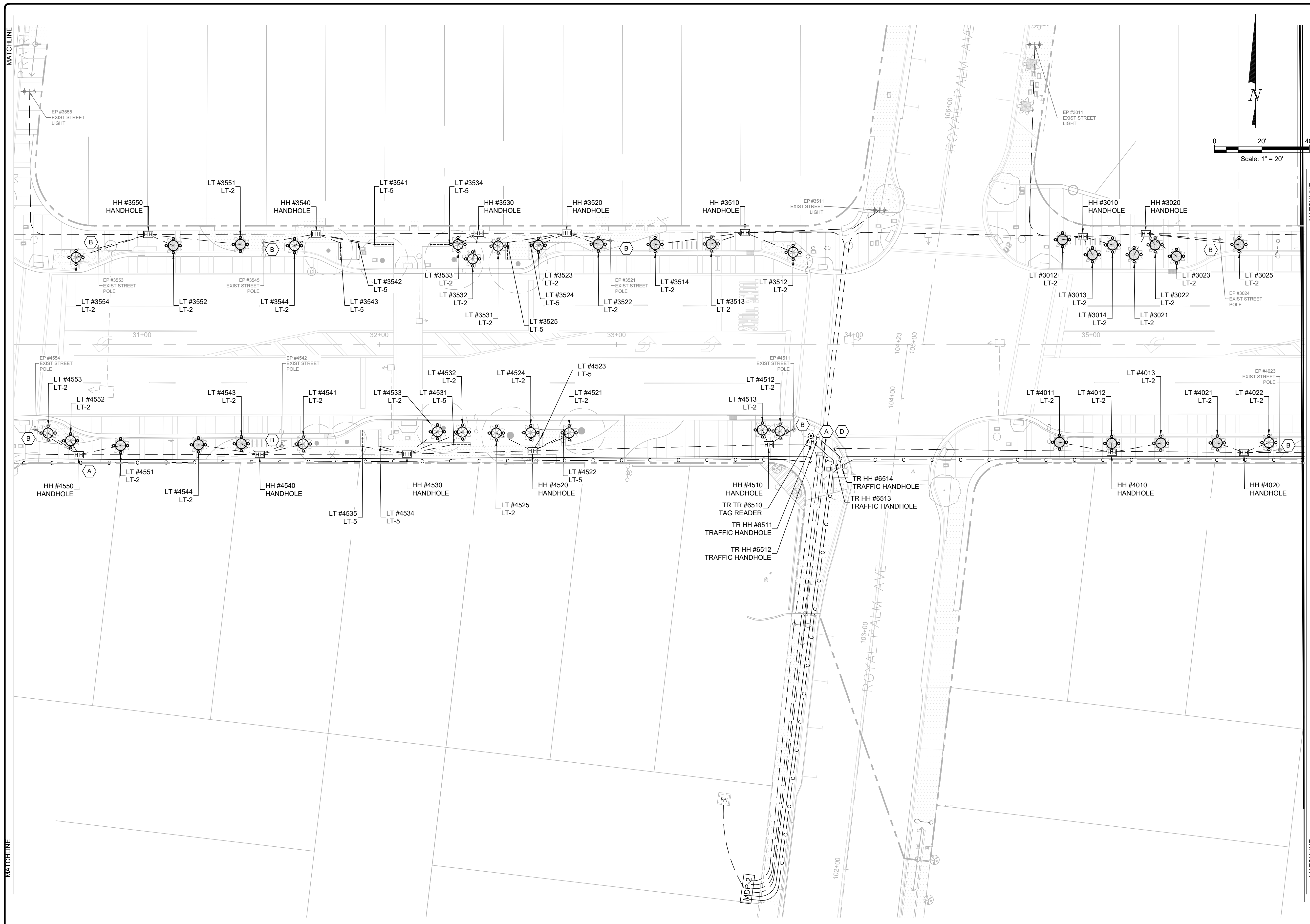
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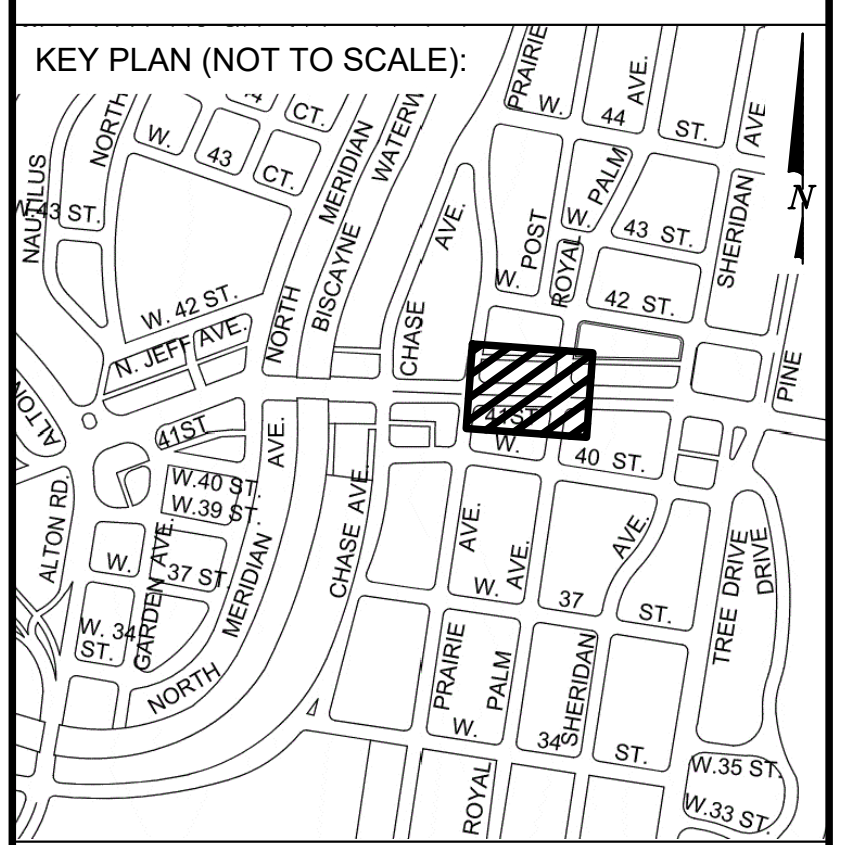
NEIGHBORHOOD:
41ST ST CORRIDOR REVITALIZATION PROJECT
TITLE:
LIGHTING PLANS

File Name: 2023-E1-000.dwg
Survey Reference:
Field Book: N/A Page: N/A Work Order: N/A
Date: 4/17/2023 Sheet: # of 124 Drawing: E1-003



- ### GENERAL NOTES
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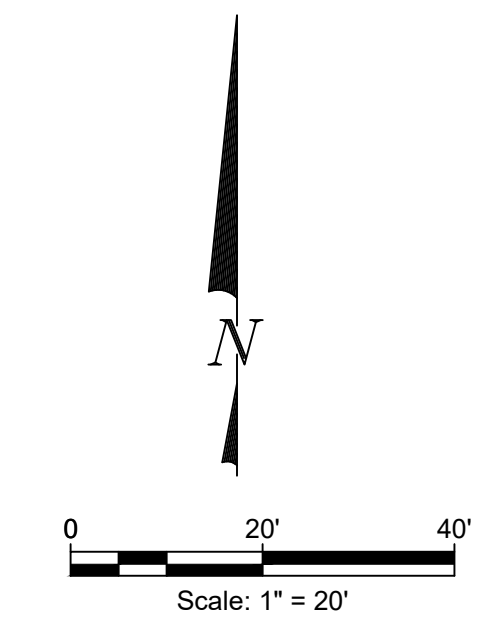
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CHECKER: **BCB**
SCALE: 1" = 20'

NEIGHBORHOOD:
41ST ST CORRIDOR REVITALIZATION PROJECT
TITLE:
LIGHTING PLANS

File Name: 2023-E1-000.dwg
Survey Reference:
Field Book: **N/A** Page: **N/A** Work Order: **N/A**
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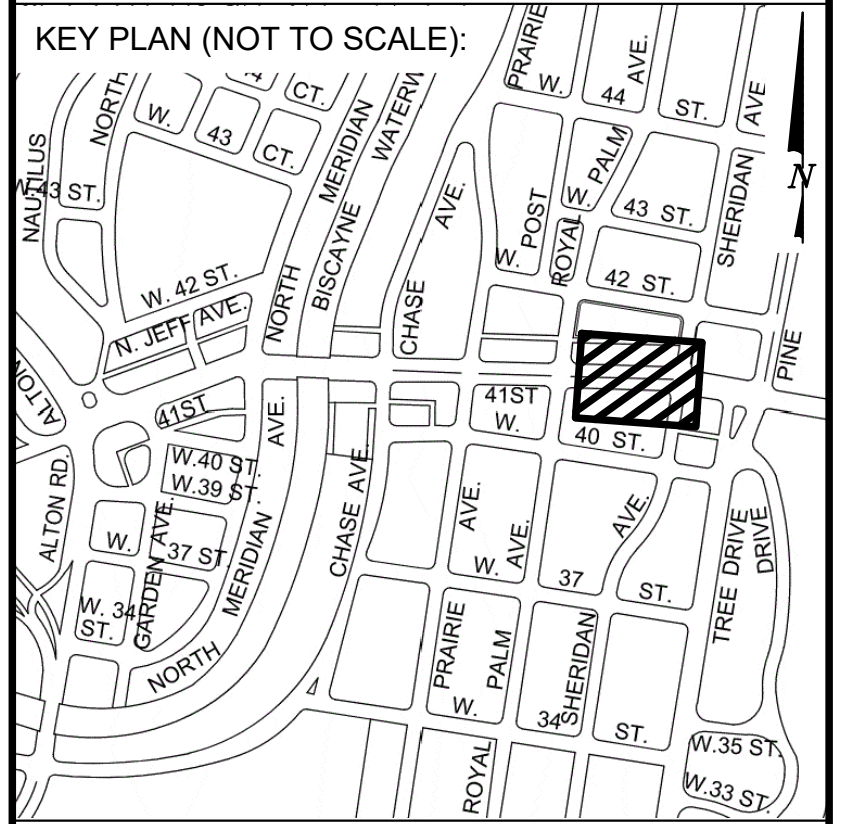


GENERAL NOTES

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2. THE LOW VOLTAGE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. UNLESS INDICATED AS EXISTING, ALL MATERIALS AND LABOR SHALL BE CONSIDERED NEW.
3. NOT ALL EXISTING UTILITIES AND OR ELECTRICAL SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATIONS OF ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. COORDINATE WITH THE MIAMI BEACH POLICE DEPARTMENT PRIOR TO COMMENCING WORK.
4. COORDINATE EXACT LOCATION OF ALL UNDERGROUND ELECTRICAL WORK WITH CIVIL ENGINEERING DRAWINGS AND DOCUMENTS. ALL OTHER SITE UTILITIES AND SITE CONTRACTOR, ROCK AND/OR ADVERSE SOIL CONDITIONS MAY BE PRESENT ON SITE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS FOR ALL BELOW GRADE WORK WITH GEOTECHNICAL REPORTS, IF AVAILABLE.
5. CONTRACTOR SHALL "DIRECT BORE" CONDUITS ACROSS THE STREET AS SHOWN ON PLANS, BELOW THE PUBLIC WAY FROM ONE END OF THE STREET TO THE OTHER. SEE DRAWING DETAILS ON SHEET ES-001, FOR SIZE AND DIAGRAMS. COORDINATE ALL WORK WITH OWNER, THE CITY AND CITY ENGINEER. CARRY ALL REQUIRED DIRECT BORING INSURANCES AS NECESSARY. CONTRACTOR SHALL OBTAIN PERMIT FROM THE CITY.

SHEET KEYNOTES

- A. NEW CAMERA POLE. PLACEMENT OF POLE SHALL BE PRESENT CLEAR FIELD OF VIEWS WITH THE CAMERAS. COORDINATE FINAL LOCATIONS WITH THE CITY OF MIAMI BEACH.
- B. EXISTING CITY LIGHT POLES TO REMAIN AND FED WITH NEW CONDUIT AS SHOWN. COORDINATE EXACT LOCATIONS OF EXISTING LIGHT POLES DURING FIELD VISIT AND WITH OWNER. EXISTING LIGHT POLES AND COMPONENTS THAT ARE NOT SHOWN ON THE DRAWINGS MAY EXIST AND MAY REQUIRE CERTAIN REMODELING OR ADJUSTMENTS THAT ARE NOT NOTED ON THE DRAWINGS.
- C. PROVIDE 2" SCHEDULE 40 PVC UNDERGROUND TELECOMMUNICATIONS CONDUIT, ROUTE PARALLEL TO ELECTRICAL CONDUIT WHEN POSSIBLE.
- D. PROVIDE QUARTZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO NEW CAMERA POLE AND ELECTRICAL HANDHOLE WHERE FEASIBLE. PROVIDE 3/4" CONDUIT ROUTED TO CAMERA POLE BASE FOR POE CABLE.



P.E. SEAL:

MIAMI BEACH
 OFFICE OF CAPITAL IMPROVEMENT PROJECTS
 1701 MERIDIAN AVENUE, MIAMI BEACH, FL 33139

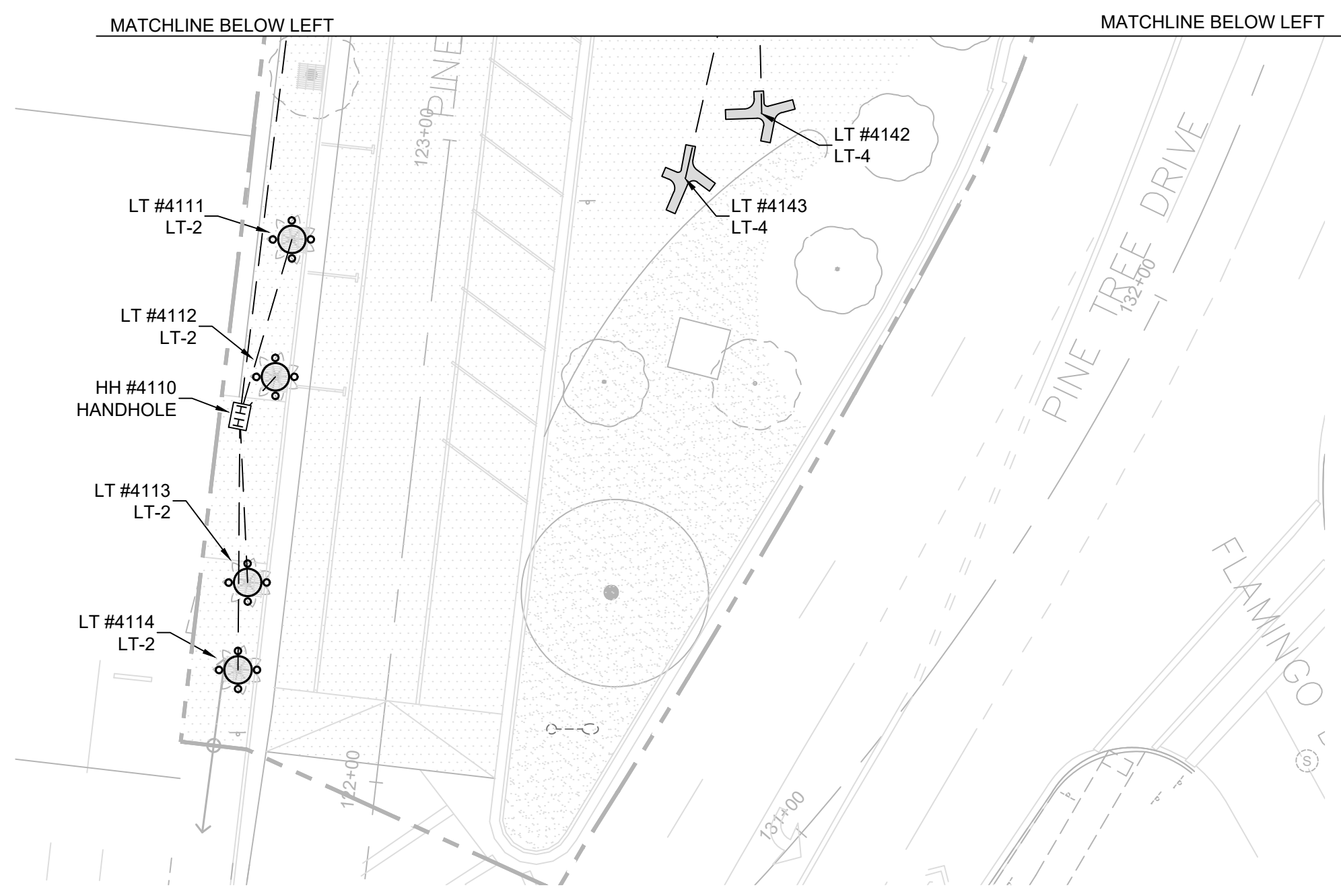
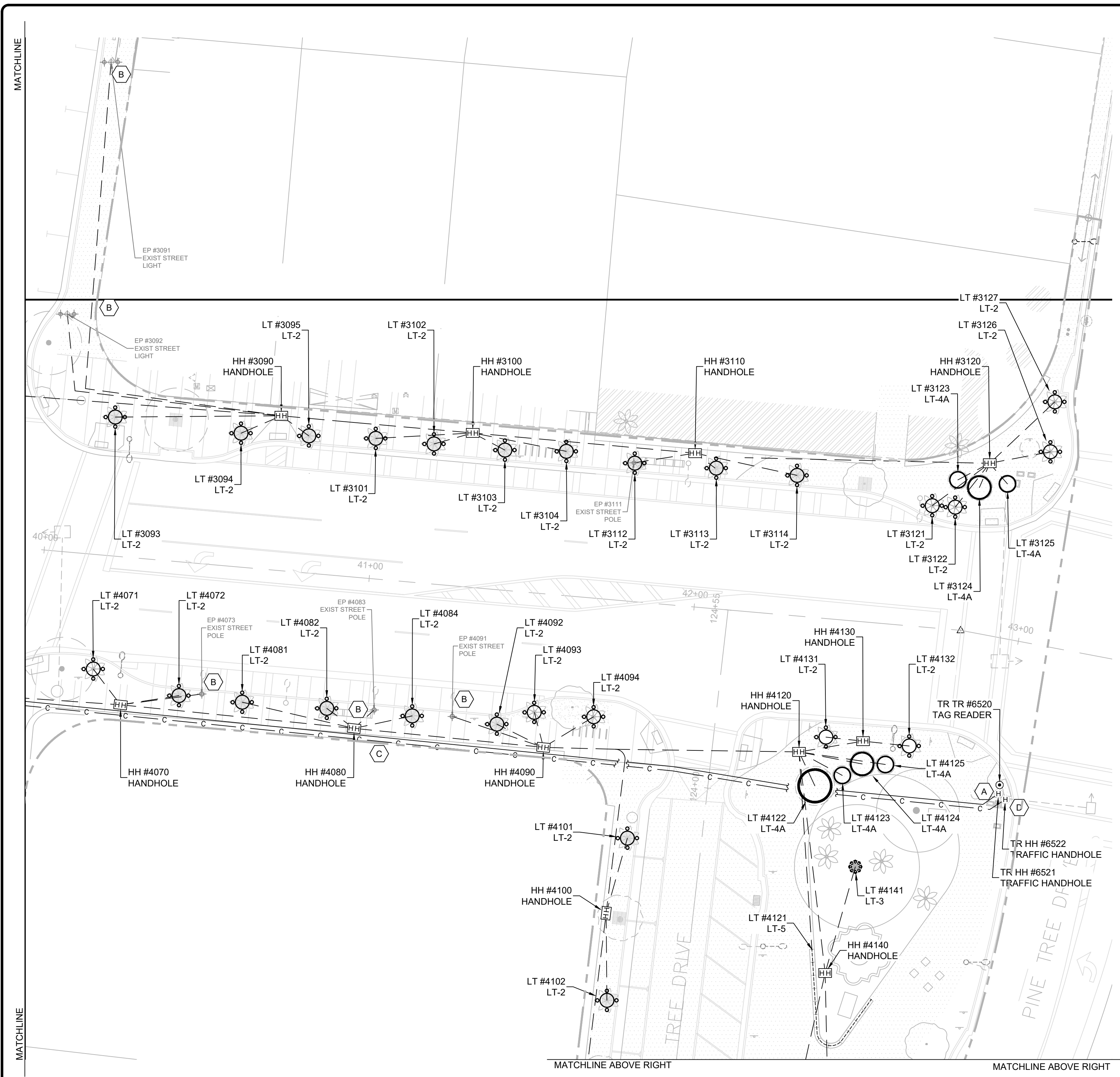
CITY MANAGER: ALINA T. HUDAK	5		
DIRECTOR: DAVID MARTINEZ, P.E.	4		
CITY ENGINEER: CRISTINA ORTEGA CASTINEIRAS, P.E.	3		
	2		
	1		
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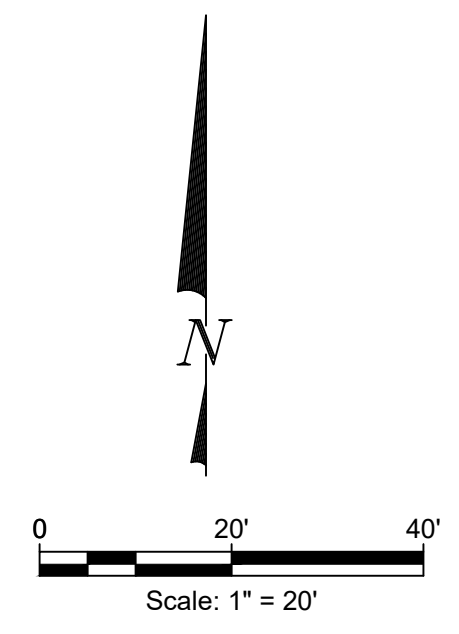
ENGINEER OF RECORD:	ENGINEER OF RECORD: BCB
DESIGN ENGINEER: NE	DRAWN BY: FTL
CHECKER: BCB	SCALE: 1" = 20'

NEIGHBORHOOD:	41ST ST CORRIDOR REVITALIZATION PROJECT
TITLE:	LIGHTING PLANS

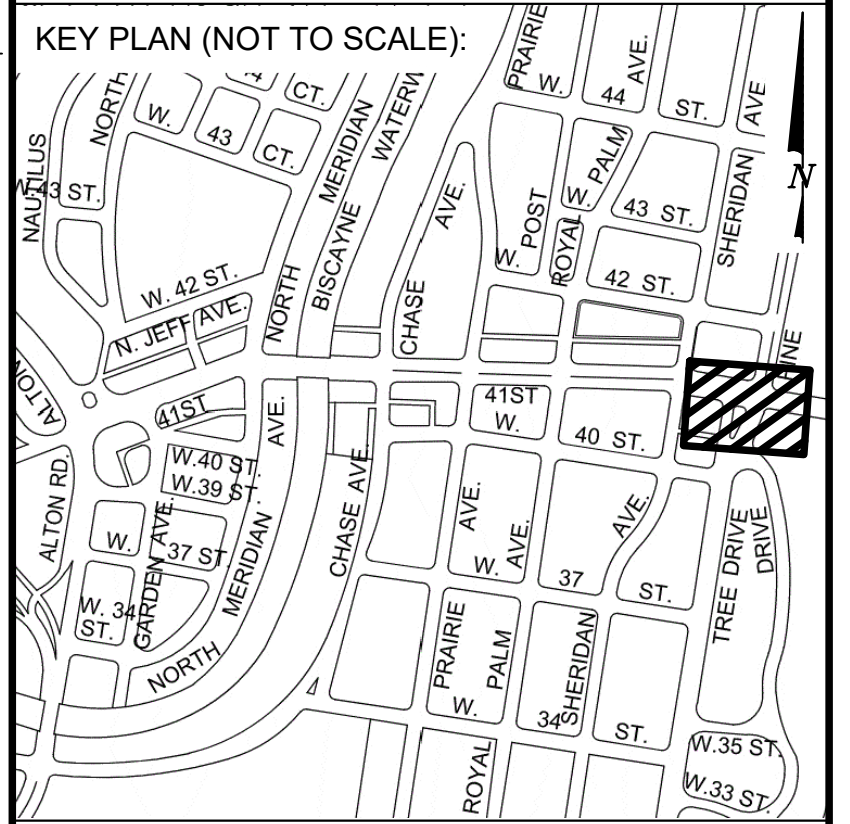
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Survey Reference:	
Field Book:	N/A
Page:	N/A
Work Order:	N/A
Date:	4/17/2023
Sheet:	# of 124
Drawing:	E1-005



- ### GENERAL NOTES
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- ### SHEET KEYNOTES
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OFFICE OF CAPITAL IMPROVEMENT PROJECTS
1701 MERIDIAN AVENUE, MIAMI BEACH, FL 33139

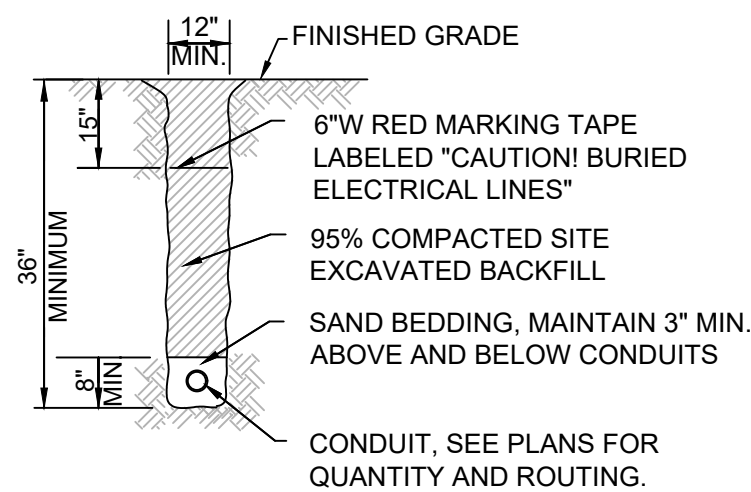
CITY MANAGER: ALINA T. HUDAK	5			
DIRECTOR: DAVID MARTINEZ, P.E.	4			
CITY ENGINEER: CRISTINA ORTEGA CASTINEIRAS, P.E.	3			
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	NO.	DATE	REVISION	APP'D. BY

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ENGINEER OF RECORD: BCB
DESIGN ENGINEER: NE
DRAWN BY: FTL
CHECKER: BCB
SCALE: 1" = 20'

NEIGHBORHOOD:
41ST ST CORRIDOR REVITALIZATION PROJECT
TITLE:
LIGHTING PLANS

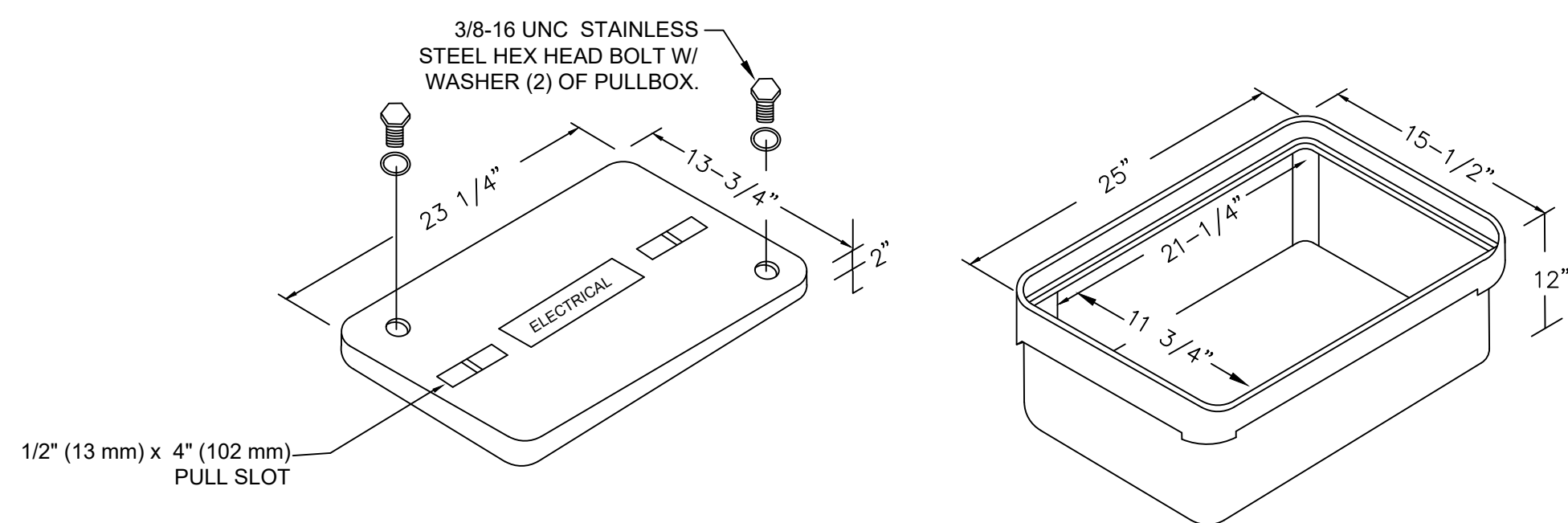
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Survey Reference:
Field Book: N/A Page: N/A Work Order: N/A
Date: 4/17/2023 Sheet: # of 124 Drawing: E1-006



NOTES:

1. ALL CONDUIT TRENCHING MUST BE PROPERLY BACKFILLED TO PROVIDE SAFE CROSSING AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ONE BECOMES INACTIVE.
2. USE CONDUIT SPACERS MINIMUM EVERY 8 FEET WHERE MULTIPLE CONDUITS ARE RUN IN SAME TRENCH.
3. TRENCHING MUST BE PROPERLY BACKFILLED TO PROVIDE SAFE CROSSING AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ONE BECOMES INACTIVE.

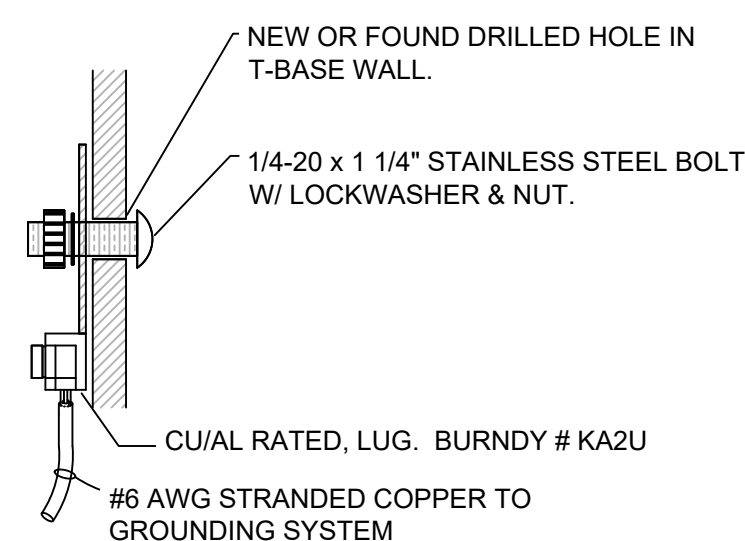
TYPICAL CONDUIT TRENCH DETAILS



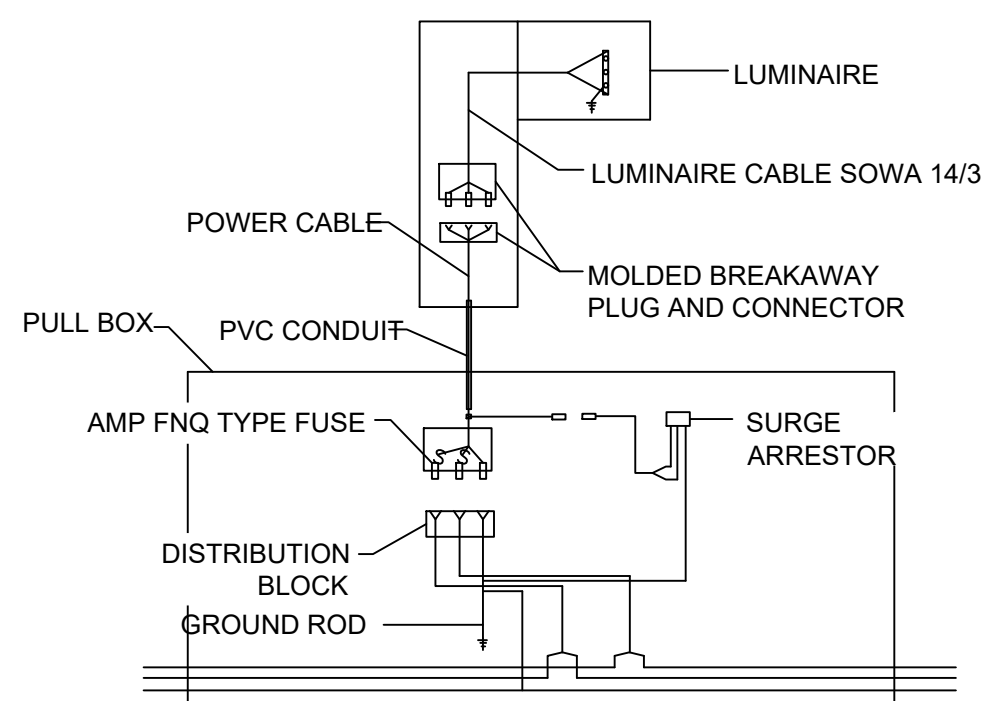
NOTES:

1. POLYMER CONCRETE BOX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT TWENTY EIGHT (28) DAYS. QUAZITE PRODUCT NO. PG1324BA12 OR APPROVED EQUIVALENT.
2. PULL BOX COVER SHALL BE POLYMER CONCRETE QUAZITE PRODUCT NO. PG1324HH00 TIER 22, OR APPROVED EQUIVALENT. PULL BOX COVERS SHALL BE MARKED "ELECTRICAL".
3. PULL BOXES, JUNCTION BOXES, AND ALL ELECTRICAL WORK MUST CONFORM TO N.E.C. (LATEST REQUIREMENTS).
4. FIBER OPTIC HANDHOLE SHALL BE SIZED AS REQUIRED TO FIT FIBER OPTIC CABLE WITH SERVICE LOOPS WITH AT LEAST 10' OF CABLE AND ADHERE TO MANUFACTURER'S MINIMUM BEND RADIUS. COVER SHALL READ "COMMUNICATIONS".

HANDHOLE BOX DETAIL

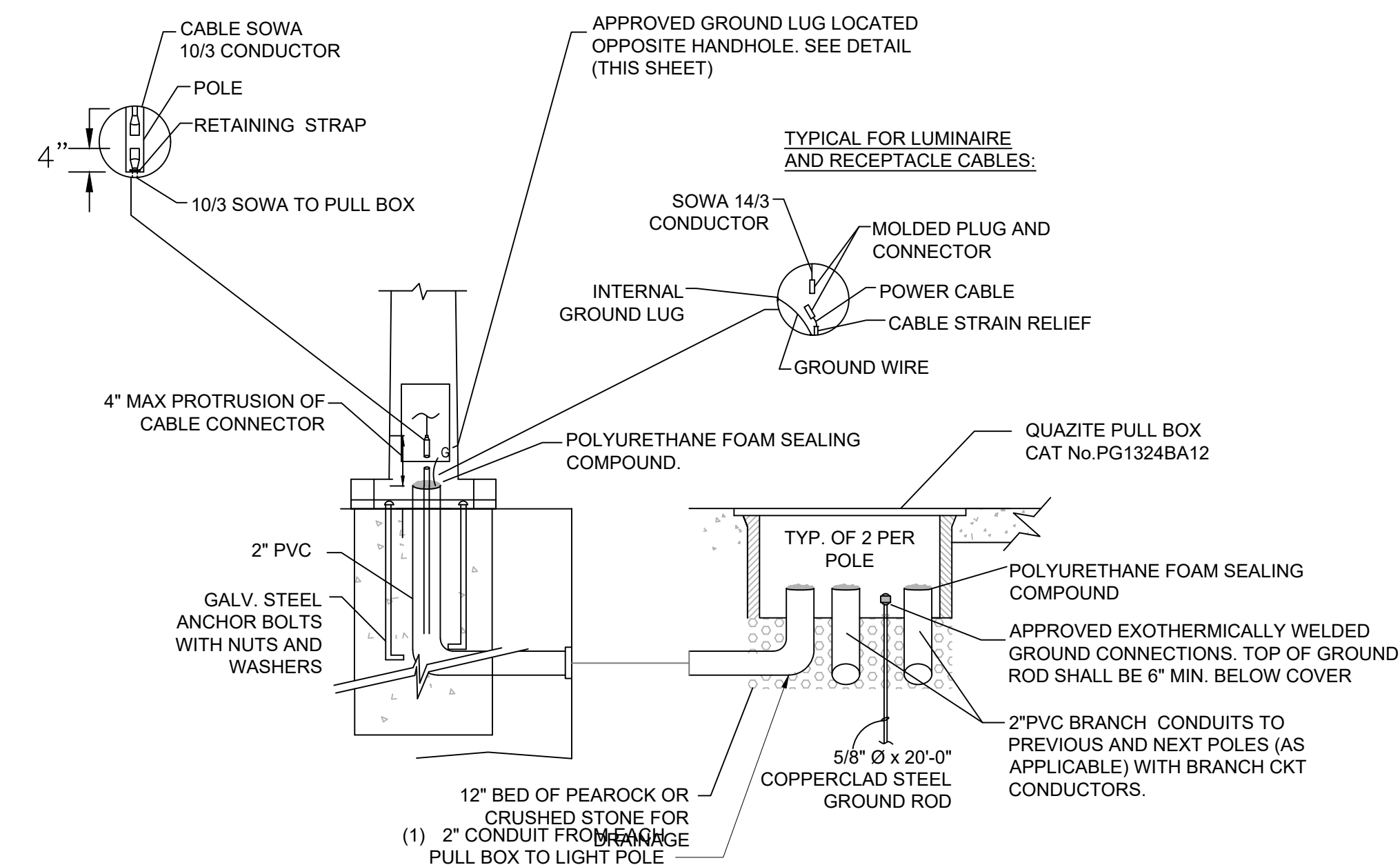


GROUND LUG DETAIL



LUMINAIRE WIRING DIAGRAM

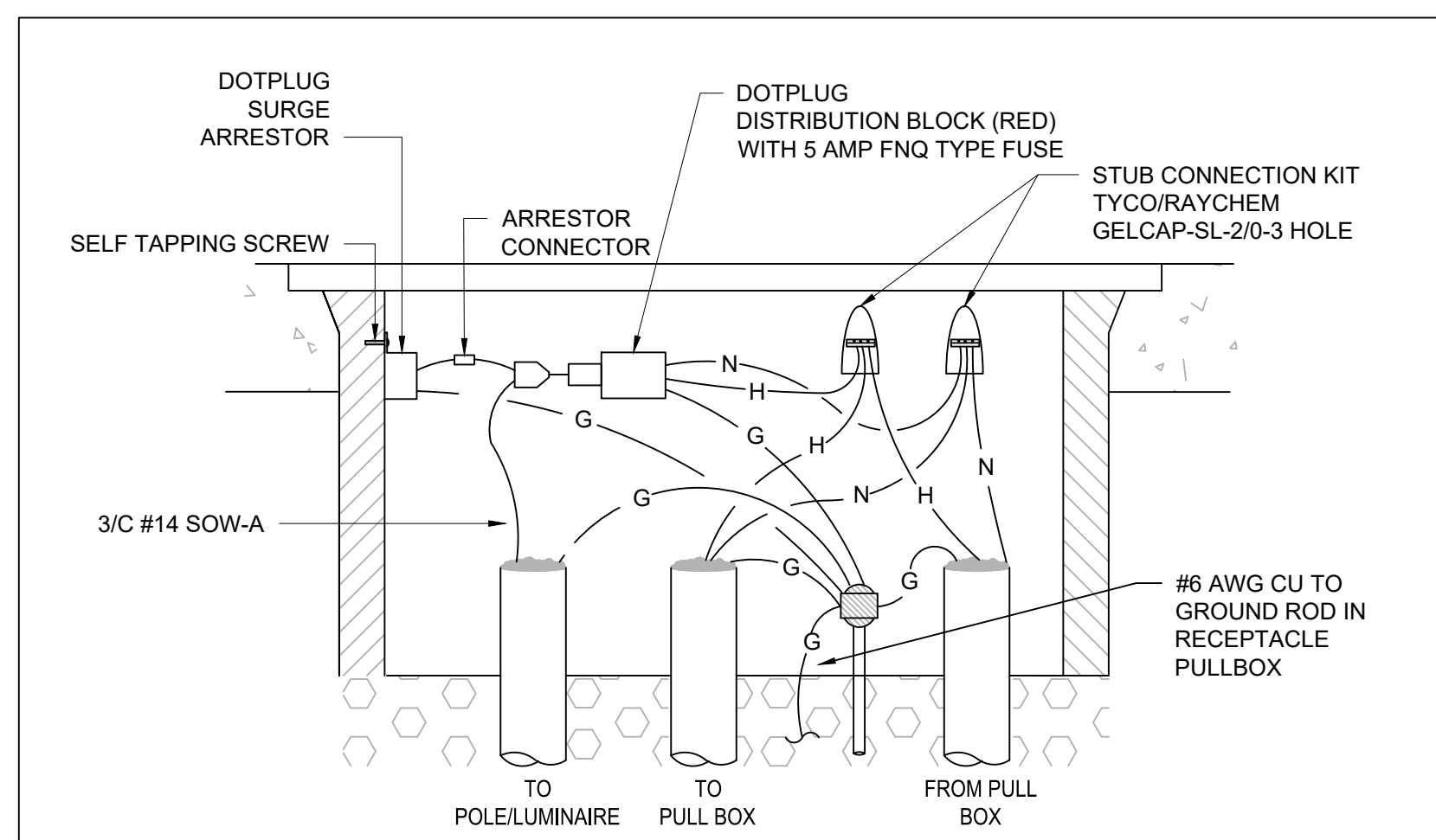
TYPICAL FOR LUMINAIRE AND RECEPTACLE CABLES:



NOTES:

1. ALL CONDUIT TRENCHING MUST BE PROPERLY BACKFILLED TO PROVIDE SAFE CROSSING AT THE END OF EACH WORK DAY OR WHENEVER THE DEVICE SUPPORT IN PULL BOXES. THE PREFERRED METHOD OF ATTACHMENT OF LIGHTNING ARRESTERS AND OTHER DEVICES LIKELY TO BE SUPPORTED IN PULL BOXES IS BY MEANS OF A SELF-TAPPING SCREW OR BY A MASONRY SCREW. CARE SHOULD BE EXERCISED WHEN UTILIZING THIS METHOD NOT TO BREAK THE SUPPORTING TABS; SCREWS SHOULD BE FIRM BUT NOT SNUG AGAINST THE SUPPORTING TABS. OTHER APPROVED AND LISTED METHODS MAY BE USED, IF THEY ARE FOUND SUITABLE FOR THE CONDITIONS. (LIGHTNING ARRESTERS MUST BE INSTALLED BY THE PROVISIONS OF ARTICLE 280 OF NFPA 70 NATIONAL ELECTRICAL CODE). PROVISION MUST BE MADE TO CONNECT THESE LEADS TO THE CIRCUIT WIRING. SURGE CAPACITOR INSTALLED ON THE LINE SIDE OF THE SWITCH AND SURGE ARRESTOR ON THE LOAD SIDE. NO SPLICING OR EXTENSION, OR UNNECESSARY WIRE BENDING WILL BE ALLOWED.
2. ACCEPTABLE SPLICING DEVICE IS THE MOLDED SPLICE KIT TYCO-RAYCHEM CATALOG # GELCAP-SL-2/0-3 HOLE OR APPROVED EQUAL. WHERE CONVENTIONAL WIRING SYSTEMS ARE EMPLOYED, CONDUCTORS SHALL BE SO ROUTED AND COORDINATED AS TO TERMINATE ON THE LINE SIDE OF THE FUSE HOLDERS (BUSSMAN). PULL BOXES CONTAINING # 4 AWG OR LARGER CONDUCTORS CONTAINING SPLICES OR U PULLS, THE DISTANCE BETWEEN RACEWAYS SHALL BE INCREASED SIX TIMES THE TRADE SIZE DIAMETER OF THE LARGEST RACEWAY.
3. THE WIRES AT THE POLE, HANDHOLE, AND PULL BOXES SHALL BE LOOPED WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS TO THE OUTSIDE, TO MAKE THEM ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.

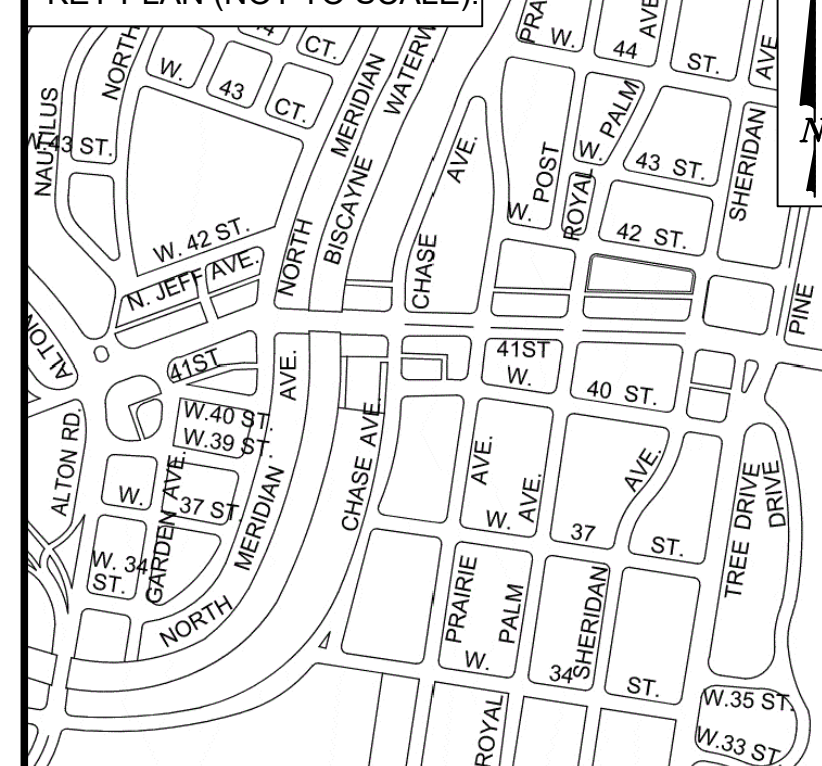
POLE WIRING DETAIL WITH PULL BOX



LIGHTING CIRCUIT PULL BOX WIRING DETAIL

NOTES:

KEY PLAN (NOT TO SCALE):



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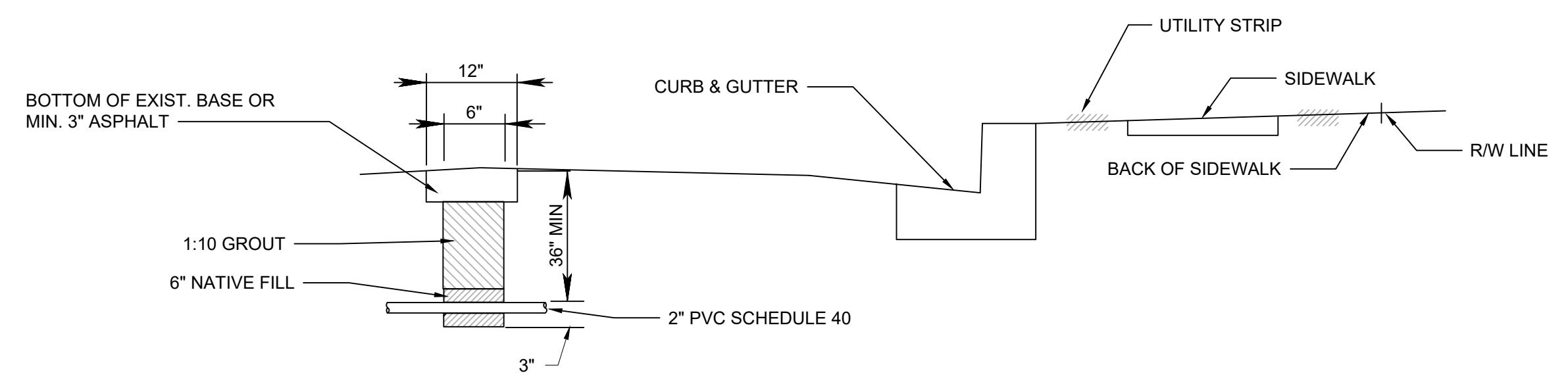


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DESIGN ENGINEER: NE
DRAWN BY: NE
CHECKER: BCB
SCALE: NO SCALE

NEIGHBORHOOD:
41ST ST CORRIDOR REVITALIZATION PROJECT
TITLE:
ELECTRICAL DETAILS - I

File Name: 2023-E5-000.dwg
Survey Reference:
Field Book: N/A Page: N/A Work Order: N/A
Date: 4/17/2023 Sheet: # of 124 Drawing: E5-000

1 OPTION

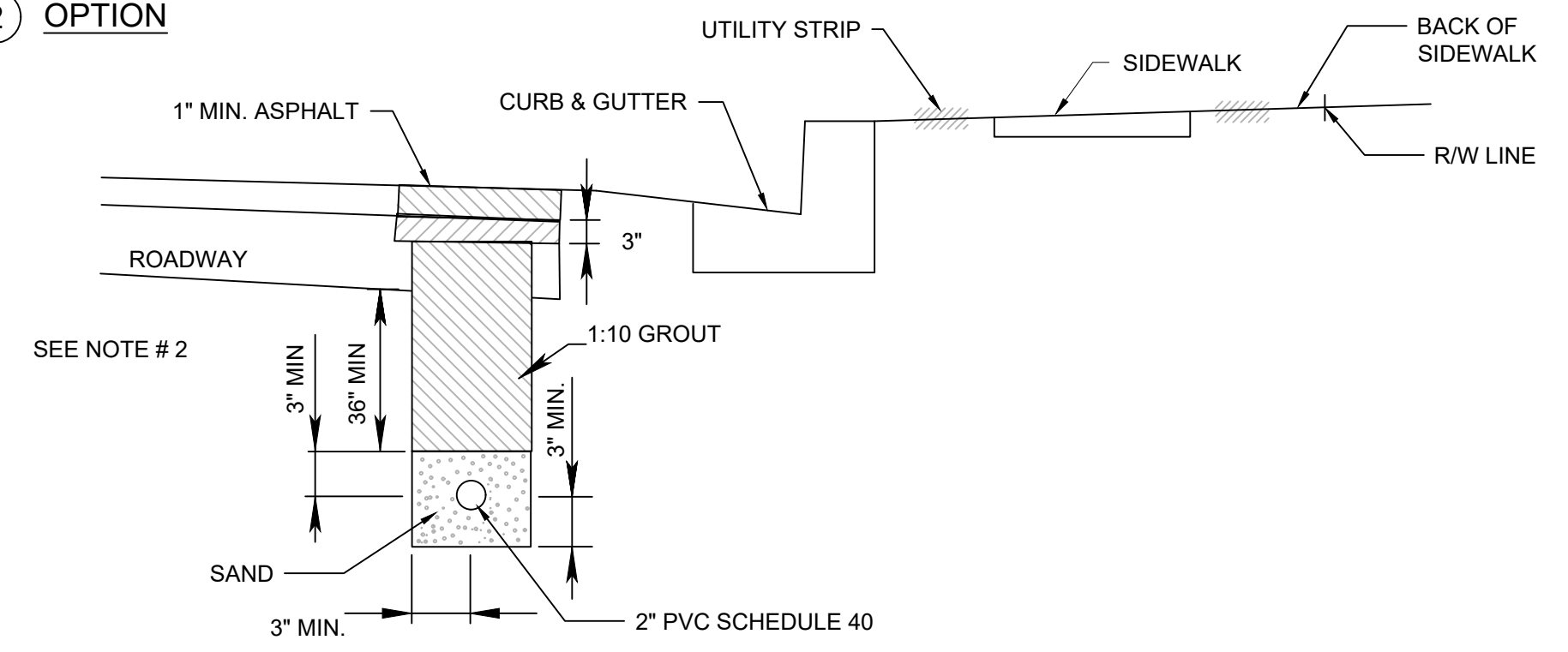


NOTE:
TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME

* MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

CONDUIT BURIED WHEN CROSSING ROAD

2 OPTION

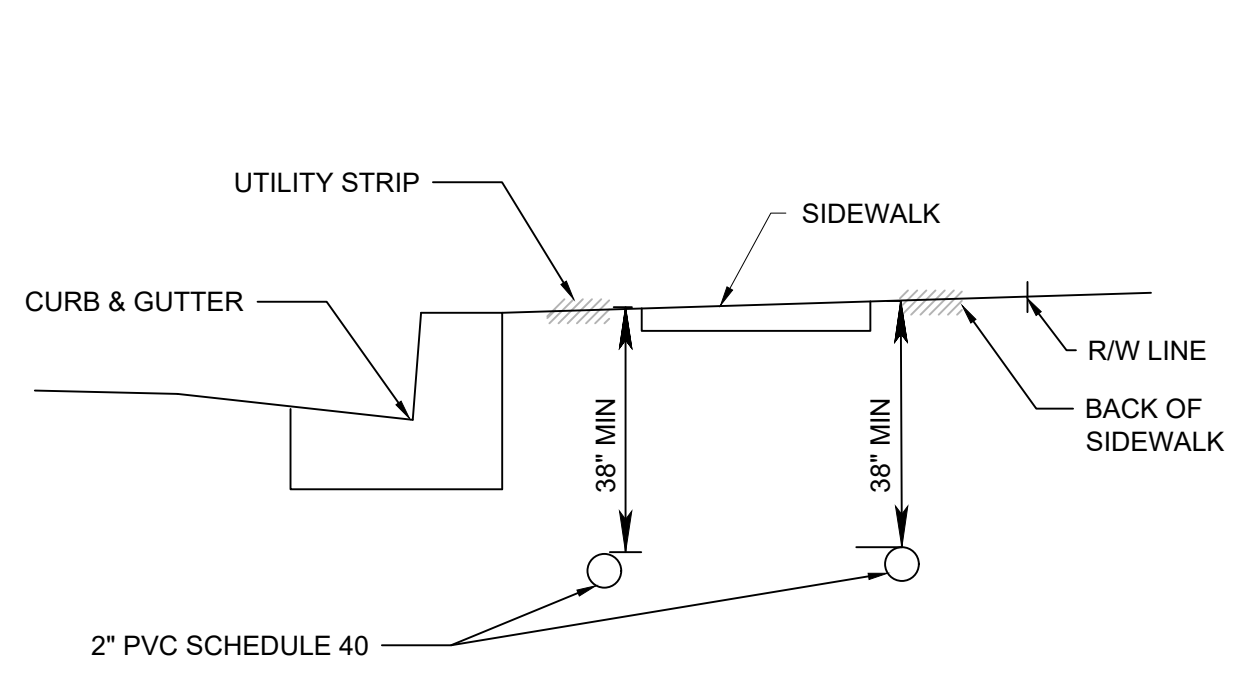


NOTE:
1. TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME.
2. THIS AREA SHALL BE BACKFILLED WITH TYPE S-1 ASPHALTIC CONCRETE TO WITHIN 1 INCH OF FINISHED GRADE.

* MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

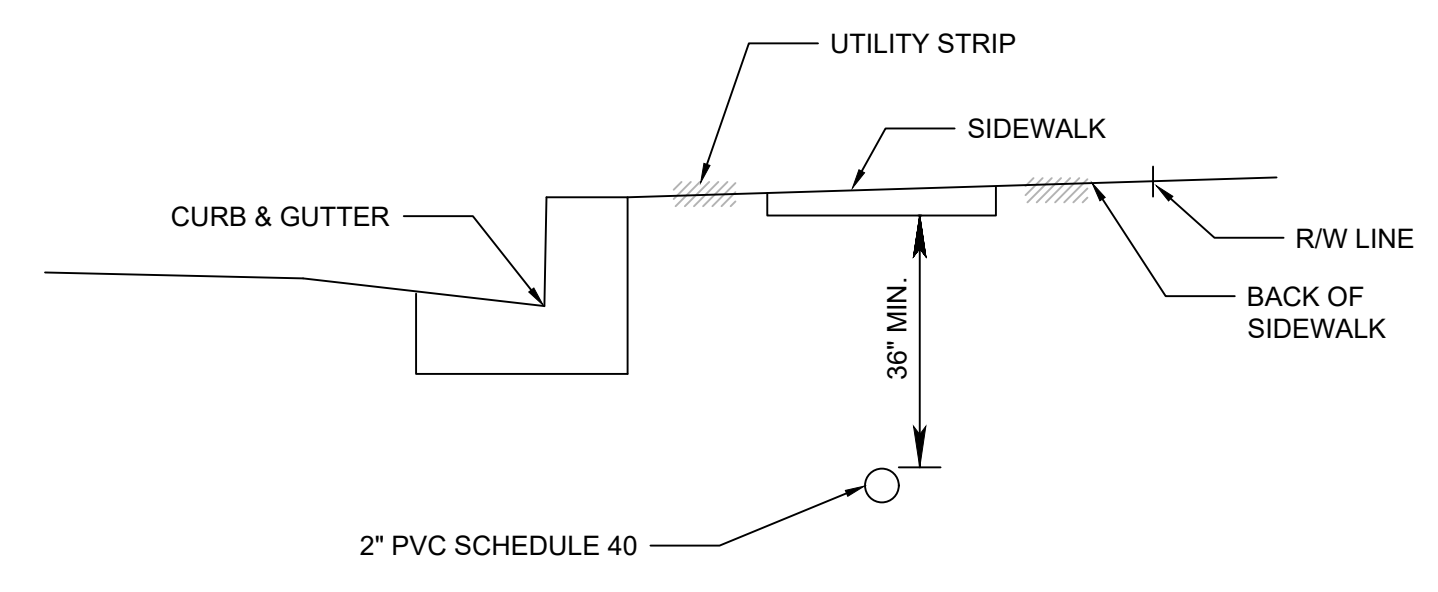
CONDUIT BURIAL IN ROADWAY

3 OPTION



CONDUIT IN UTILITY AND BACK OF SIDEWALK

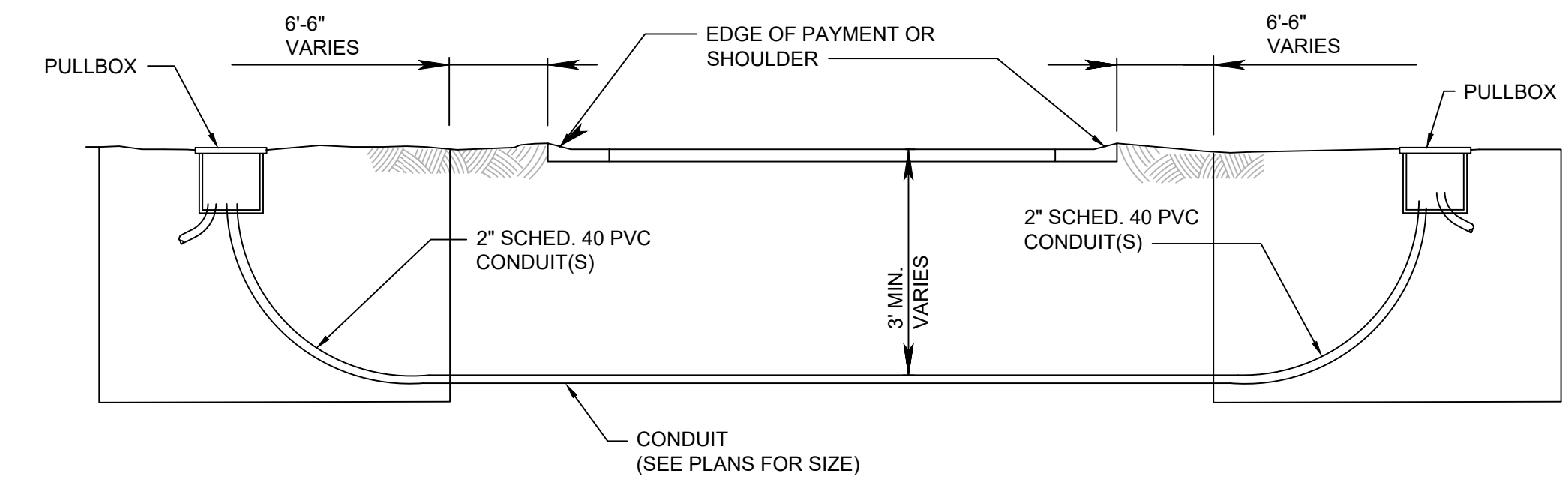
4 OPTION



NOTE:
IN PLACING CONDUIT UNDER SIDEWALK REPLACEMENT OF ENTIRE SIDEWALK SECTION SHALL BE NECESSARY.

CONDUIT BURIAL DETAILS

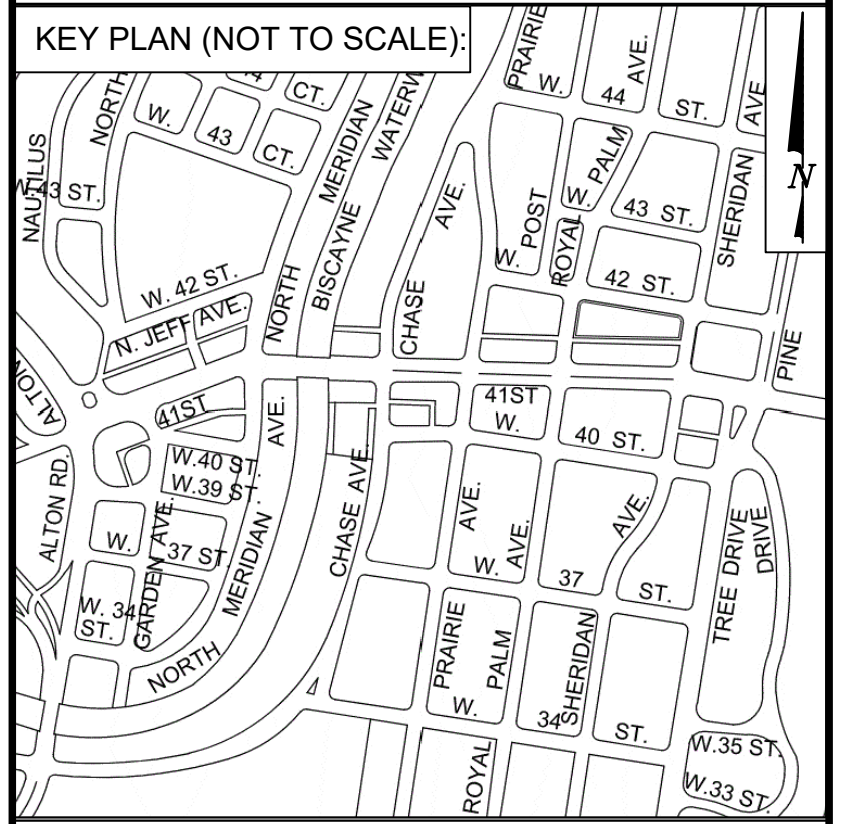
5 OPTION



NOTES:
DIRECTIONAL BORING OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE GDOT STANDARDS.

CONDUIT DIRECTIONAL BORE

NOTES:



P.E. SEAL:

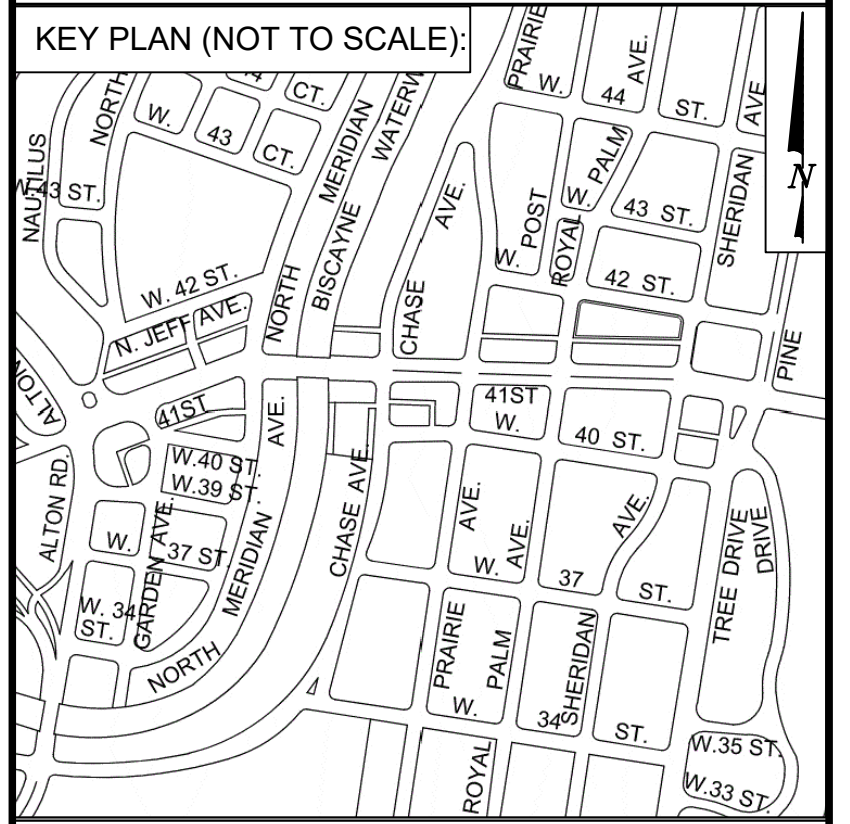
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NO.	DATE	REVISION	APP'D. BY

MDP-2 VOLTAGE DROP CALCULATION																	
Circuit Number	Source	Servicing	Feeder Voltage (V)	Power Factor	Segment Length (ft)	Wire Size (AWG or kcmil)	Conductor Material	Conduit Material	Parallel Sets	Load (VA)	Total Load (VA)	Total Amperage (A)	Conductor Impedance Zc (Ω/1000ft)	Segment Voltage Drop (V)	Total Voltage Drop (%)	DESCRIPTION	
CKT-1	UTILITY XFMR	MDP-2	120/240V, 1Ø	0.9	40	4/0	Cu	PVC	1	50	5034	20.98	0.0737	0.12	0.05%	3#1/0 IN 2" C	
	MDP-2	4510	120/240V, 1Ø	0.9	195	6	Cu	PVC	1	101	1302	5.43	0.4632	0.98	0.46%	2#6 + 1#6G IN 2" C	
	4510	4520	120/240V, 1Ø	0.9	100	6	Cu	PVC	1	98	1201	5.00	0.4632	0.46	0.65%	2#6 + 1#6G IN 2" C	
	4520	4530	120/240V, 1Ø	0.9	50	6	Cu	PVC	1	77	1103	4.60	0.4632	0.21	0.74%	2#6 + 1#6G IN 2" C	
	4530	4540	120/240V, 1Ø	0.9	60	6	Cu	PVC	1	129	1026	4.28	0.4632	0.24	0.84%	2#6 + 1#6G IN 2" C	
	4540	4550	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	129	897	3.74	0.4632	0.26	0.95%	2#6 + 1#6G IN 2" C	
	4550	4560	120/240V, 1Ø	0.9	130	6	Cu	PVC	1	157	768	3.20	0.4632	0.39	1.11%	2#6 + 1#6G IN 2" C	
	4560	4570	120/240V, 1Ø	0.9	80	6	Cu	PVC	1	129	611	2.55	0.4632	0.19	1.19%	2#6 + 1#6G IN 2" C	
	4570	4580	120/240V, 1Ø	0.9	90	6	Cu	PVC	1	84	482	2.01	0.4632	0.17	1.26%	2#6 + 1#6G IN 2" C	
	4580	4590	120/240V, 1Ø	0.9	65	6	Cu	PVC	1	56	398	1.66	0.4632	0.10	1.30%	2#6 + 1#6G IN 2" C	
4590	4600	120/240V, 1Ø	0.9	150	6	Cu	PVC	1	129	342	1.43	0.4632	0.20	1.38%	2#6 + 1#6G IN 2" C		
4600	4610	120/240V, 1Ø	0.9	40	6	Cu	PVC	1	129	213	0.89	0.4632	0.03	1.40%	2#6 + 1#6G IN 2" C		
4610	4620	120/240V, 1Ø	0.9	65	6	Cu	PVC	1	84	84	0.35	0.4632	0.02	1.40%	2#6 + 1#6G IN 2" C		
CKT-2	MDP-2	3510	120/240V, 1Ø	0.9	320	6	Cu	PVC	1	84	1291	5.38	0.4632	1.59	0.72%	2#6 + 1#6G IN 2" C	
	3510	3520	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	115	1207	5.03	0.4632	0.35	0.86%	2#6 + 1#6G IN 2" C	
	3520	3530	120/240V, 1Ø	0.9	40	6	Cu	PVC	1	63	1092	4.55	0.4632	0.17	0.93%	2#6 + 1#6G IN 2" C	
	3530	3540	120/240V, 1Ø	0.9	70	6	Cu	PVC	1	94	1029	4.29	0.4632	0.28	1.05%	2#6 + 1#6G IN 2" C	
	3540	3550	120/240V, 1Ø	0.9	70	6	Cu	PVC	1	101	935	3.90	0.4632	0.25	1.15%	2#6 + 1#6G IN 2" C	
	3550	3560	120/240V, 1Ø	0.9	80	6	Cu	PVC	1	209	834	3.48	0.4632	0.26	1.26%	2#6 + 1#6G IN 2" C	
	3560	3570	120/240V, 1Ø	0.9	35	6	Cu	PVC	1	63	625	2.60	0.4632	0.08	1.30%	2#6 + 1#6G IN 2" C	
	3570	3580	120/240V, 1Ø	0.9	80	6	Cu	PVC	1	101	562	2.34	0.4632	0.17	1.37%	2#6 + 1#6G IN 2" C	
	3580	3590	120/240V, 1Ø	0.9	60	6	Cu	PVC	1	84	461	1.92	0.4632	0.11	1.41%	2#6 + 1#6G IN 2" C	
	3590	3600	120/240V, 1Ø	0.9	80	6	Cu	PVC	1	84	377	1.57	0.4632	0.12	1.46%	2#6 + 1#6G IN 2" C	
	3600	3610	120/240V, 1Ø	0.9	160	6	Cu	PVC	1	80	293	1.22	0.4632	0.18	1.54%	2#6 + 1#6G IN 2" C	
	3610	3620	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	129	213	0.89	0.4632	0.06	1.56%	2#6 + 1#6G IN 2" C	
	3620	3630	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	84	84	0.35	0.4632	0.02	1.57%	2#6 + 1#6G IN 2" C	
	CKT-3	MDP-2	4010	120/240V, 1Ø	0.9	310	6	Cu	PVC	1	84	1114	4.64	0.4632	1.33	0.61%	2#6 + 1#6G IN 2" C
		4010	4020	120/240V, 1Ø	0.9	55	6	Cu	PVC	1	101	1030	4.29	0.4632	0.22	0.70%	2#6 + 1#6G IN 2" C
4020		4030	120/240V, 1Ø	0.9	70	6	Cu	PVC	1	70	929	3.87	0.4632	0.25	0.80%	2#6 + 1#6G IN 2" C	
4030		4040	120/240V, 1Ø	0.9	55	6	Cu	PVC	1	42	859	3.58	0.4632	0.18	0.88%	2#6 + 1#6G IN 2" C	
4040		4050	120/240V, 1Ø	0.9	125	6	Cu	PVC	1	112	817	3.40	0.4632	0.39	1.04%	2#6 + 1#6G IN 2" C	
4050		4060	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	91	705	2.94	0.4632	0.20	1.13%	2#6 + 1#6G IN 2" C	
4060		4070	120/240V, 1Ø	0.9	140	6	Cu	PVC	1	101	614	2.56	0.4632	0.33	1.27%	2#6 + 1#6G IN 2" C	
4070		4080	120/240V, 1Ø	0.9	70	6	Cu	PVC	1	129	513	2.14	0.4632	0.14	1.32%	2#6 + 1#6G IN 2" C	
4080		4090	120/240V, 1Ø	0.9	60	6	Cu	PVC	1	129	384	1.60	0.4632	0.09	1.36%	2#6 + 1#6G IN 2" C	
4090		4100	120/240V, 1Ø	0.9	65	6	Cu	PVC	1	56	168	0.70	0.4632	0.04	1.38%	2#6 + 1#6G IN 2" C	
4100		4110	120/240V, 1Ø	0.9	80	6	Cu	PVC	1	112	112	0.47	0.4632	0.03	1.39%	2#6 + 1#6G IN 2" C	
4090		4120	120/240V, 1Ø	0.9	80	6	Cu	PVC	1	16	87	0.36	0.4632	0.03	1.37%	2#6 + 1#6G IN 2" C	
4120		4130	120/240V, 1Ø	0.9	20	6	Cu	PVC	1	56	71	0.30	0.4632	0.01	1.37%	2#6 + 1#6G IN 2" C	
4130		4140	120/240V, 1Ø	0.9	80	6	Cu	PVC	1	15	15	0.06	0.4632	0.00	1.38%	2#6 + 1#6G IN 2" C	
CKT-4		MDP-2	3010	120/240V, 1Ø	0.9	302	6	Cu	PVC	1	84	1277	5.32	0.4632	1.49	0.67%	2#6 + 1#6G IN 2" C
	3010	3020	120/240V, 1Ø	0.9	30	6	Cu	PVC	1	84	1193	4.97	0.4632	0.14	0.73%	2#6 + 1#6G IN 2" C	
	3020	3030	120/240V, 1Ø	0.9	85	6	Cu	PVC	1	70	1109	4.62	0.4632	0.36	0.88%	2#6 + 1#6G IN 2" C	
	3030	3040	120/240V, 1Ø	0.9	50	6	Cu	PVC	1	105	1039	4.33	0.4632	0.20	0.96%	2#6 + 1#6G IN 2" C	
	3040	3050	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	70	934	3.89	0.4632	0.27	1.08%	2#6 + 1#6G IN 2" C	
	3050	3060	120/240V, 1Ø	0.9	35	6	Cu	PVC	1	84	864	3.60	0.4632	0.12	1.13%	2#6 + 1#6G IN 2" C	
	3060	3070	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	157	780	3.25	0.4632	0.23	1.22%	2#6 + 1#6G IN 2" C	
	3070	3080	120/240V, 1Ø	0.9	75	6	Cu	PVC	1	129	623	2.60	0.4632	0.18	1.30%	2#6 + 1#6G IN 2" C	
	3080	3090	120/240V, 1Ø	0.9	110	6	Cu	PVC	1	174	494	2.06	0.4632	0.21	1.38%	2#6 + 1#6G IN 2" C	
	3090	3100	120/240V, 1Ø	0.9	60	6	Cu	PVC	1	112	320	1.33	0.4632	0.07	1.41%	2#6 + 1#6G IN 2" C	
	3100	3110	120/240V, 1Ø	0.9	70	6	Cu	PVC	1	84	208	0.87	0.4632	0.06	1.44%	2#6 + 1#6G IN 2" C	
	3110	3120	120/240V, 1Ø	0.9	95	6	Cu	PVC	1	124	124	0.52	0.4632	0.05	1.46%	2#6 + 1#6G IN 2" C	

TYPE: UL67		NEW PANEL "MDP-2" SCHEDULE			MODIFICATION: NONE
VOLTAGE: 120/240V-1PH-3W					ENCLOSURE: NEMA 4X
MAINS: 200A. M.B.					LOCATION: SEE SITE PLAN
A.I.C.S.: 65 KAIC					FED FROM: FP&L
CIRC. No.	SERVICING	CIRCUIT BREAKER			
		POLE	TRIP	NOTES	
1	LIGHTING	2	20A	PROPOSED CIRCUIT	
2	LIGHTING	2	20A	PROPOSED CIRCUIT	
3	LIGHTING	2	30A	PROPOSED CIRCUIT	
4	LIGHTING	2	30A	PROPOSED CIRCUIT	
5	SECURITY CAMERA	2	20A	PROPOSED CIRCUIT	
6	SPARE	2	30A		
7	SPARE	2	30A		
8	SPARE	2	30A		
9	SPARE	2	50A		

THIS PANEL IS SUITABLE FOR SERVICE ENTRANCE AND EQUIPPED WITH INTEGRAL MAIN CIRCUIT BREAKER. THIS MAIN C/B AND BRANCH C/B ARE IN SERIES SHORT CIRCUIT CURRENT RATING.

NOTES:

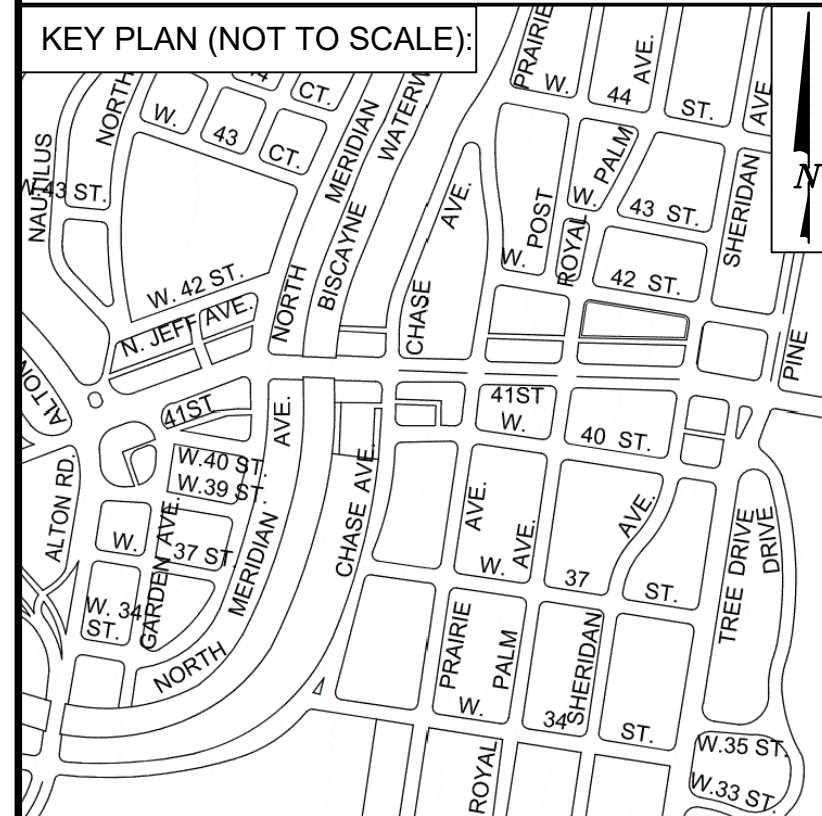


GENERAL NOTES

- LIGHTING FIXTURE SCHEDULE IS PROVIDED BY THE LIGHTING VENDOR.
- CONTRACTOR TO FIELD VERIFY EXACT QUANTITY OF EXISTING CITY OWNED LIGHT POLE FIXTURE BASED ON FIELD OBSERVATION AND COORDINATING ALONG WITH THE OWNER.

NOTES:

Luminaire Schedule										
TYPE	LOCATION	DESCRIPTION	FIXTURE FINISH	LAMPS/SOURCE	POWER SUPPLY/ DRIVER	INPUT WATTS	INPUT WATT UNITS	LISTING	MANUFACTURER	NOTES
LT-1		Not used.								
LT-2	Throughout Corridor	Aluminum pressure-mounted palm tree ring, with four (4) adjustable accent lights - 1 5/8" Ø aperture, machined aluminum housing, 360° rotation, 180° tilt, tempered soft focus lens, honeycomb baffled, flood (35") beamspread, 90° snoot with weepholes. 16 IN to 38 IN palm tree diameter.	TBD	LED 3000K 80+ CRI L80 @ 50,000 Hours 467 Delivered Lms./Fixture	Integral Driver SWITCH NON-DIM	28.0W	EA	UL Listed for Wet Locations	B-K Lighting Micro Nite Star Palm Tree Ring LED (Integral) PTR-4-STRAP SIZE-MN-LED-TR-e68-FL-FINI SH-12-11-B-TRe20-MT	- Landscape Architect shall verify fixture finish. - Ring light mounting height AFF shall be coordinated with final palm tree heights. - Ring diameter shall be coordinated by the Landscape Architect and Contractor with final palm tree diameter. - Provide manufacturer's dimensioned shop drawings showing all materials, finishes and components for Lighting Designer and Landscape Architect review prior to fabrication. - Manufacturer to coordinate weep hole locations to ensure proper drainage when fixtures are aimed up.
LT-3	Oasis	Nylon tree strap mounted LED adjustable accent light, with integrated J-Box - 1 5/8" Ø aperture, machined aluminum housing, 360° rotation, 180° tilt, tempered soft focus lens, honeycomb baffled, flood (30") beamspread, 90° snoot with weepholes. Dimensions: 1 5/8" Ø x 4 1/2" H	TBD	LED 3000K 80+ CRI L80 @ 50,000 Hours 467 Delivered Lms.	Integral Driver SWITCH NON-DIM	7.0W	EA	UL Listed for Wet Locations	B-K Lighting Micro Nite Star LED MN-LED-e68-FL-FINISH-12-1 1-B-360SL-XX + TS-MB2-FINISH-LENGTH	- Landscape Architect shall verify fixture finish. - Luminaire to be strap-mounted to tree, final location and aiming to be determined in the field. Continued maintenance of mounting shall be tended to by the Arborist or maintenance as required. - Strap length shall be coordinated by the Landscape Architect and Contractor with final tree branch diameters. - Manufacturer to coordinate weep hole locations to ensure proper drainage when fixtures are aimed up.
LT-4	Oasis	Up, Down and Side bending direct view LED linear within an encapsulated housing, frosted lens for diode free illumination and fixed custom mounting channel with integrated wire management system. Dimensions: LENGTH PER DWGS x 0.38" W x 0.38" H	White	LED 3000K 90+ CRI L70 @ 40,000 Hours 127 Delivered Lms./FT	Remote Driver SWITCH NON-DIM	2.0W	LFT	UL Listed for Wet Locations	QTL Lighting Q-CAP ANYBEND SW AND-SW-PPS-FT-WET-30-2.0 -ENC/TL-WIRE INPUT/OUTPUT-CONNECTOR/WIRE IN-CONNECTOR/WIRE OUT-END CAPS-LENGTH-O	- Luminaire shall be ordered with necessary gear, control interfaces, power feed cables/terminators and mounting accessories as required for a complete system. - Locate remote gear in a secure, concealed, accessible and well-ventilated location in compliance with manufacturer's directions. Contractor/Manufacturer to coordinate remote gear size, location and wire gauge for <2% Voltage drop over entire length of run. - Modular units to be installed for a continuous run condition as shown on drawing. Refer to landscape drawings for length of continuous runs, contractor shall provide an optimal combination of luminaire lengths to provide a continuous run as shown on landscape drawings. - Fixture is not field cuttable, Contractor shall field-verify each run length of continuous run fixtures prior to ordering.
LT-4A	Art Lighting	Same as LT-4, except higher output.	White	LED 3000K 90+ CRI L70 @ 40,000 Hours 217 Delivered Lms./FT	Remote Driver SWITCH NON-DIM	4.0W	LFT	UL Listed for Wet Locations	QTL Lighting Q-CAP ANYBEND SW AND-SW-PPS-FT-WET-30-4.0 -ENC/TL-WIRE INPUT/OUTPUT-CONNECTOR/WIRE IN-CONNECTOR/WIRE OUT-END CAPS-LENGTH-O	-Same as LT-4. -Contractor shall coordinate length with diameter of art.



P.E. SEAL:

MIAMI BEACH
OFFICE OF CAPITAL IMPROVEMENT PROJECTS
1701 MERIDIAN AVENUE, MIAMI BEACH, FL 33139

CITY MANAGER: ALINA T. HUDAK	5			
DIRECTOR: DAVID MARTINEZ, P.E.	4			
CITY ENGINEER: CRISTINA ORTEGA CASTINEIRAS, P.E.	3			
	2			
	1			
	NO.	DATE	REVISION	APP'D. BY

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ENGINEER OF RECORD: BCB
DESIGN ENGINEER: NE
DRAWN BY: NE
CHECKER: BCB
SCALE: NO SCALE

NEIGHBORHOOD:
41ST ST CORRIDOR REVITALIZATION PROJECT
TITLE:
PANEL SCHEDULE

File Name: 2023-E6-000.dwg
Survey Reference:
Field Book: N/A Page: N/A Work Order: N/A
Date: 4/17/2023 Sheet: # of 124 Drawing: E6-002

