

## Flindt Bollard Type SC

The light distribution is directed downward on one side of the bollard. The forced aperture creates an organic shaped light pattern covering nearly 180°. Two COB LEDs are housed in the top of the fixture and is shielded from direct view for glare control. The fixture can be horizontally rotated 20° and locked after the base plate is installed for optimal positioning.

FINISH  
NATURAL PAINTED ALUMINUM OR CORTEN COLORED, POWDER COATED.

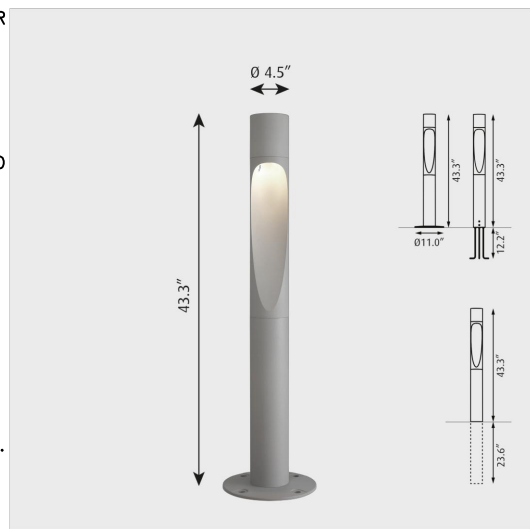
MOUNTING  
BASE PLATE DIMENSION: 11" DIAMETER  
PLATE: MOUNTED TO A CONCRETE BASE WITH 4 ANCHOR BOLTS ON A SOLID CIRCLE OF 8.91" DIAMETER  
INSTALLATION: REFER TO MOUNTING INSTRUCTION DOWNLOAD FOR INSTALLATION DETAILS.

COMPLIANCE  
CEILING, WET LOCATION

MATERIALS  
TOP: CAST ALUMINUM  
POST: EXTRUDED ALUMINUM  
BASE PLATE: DIE CAST ALUMINUM  
LENS: CLEAR POLYCARBONATE  
ANCHOR BOLTS: ZINC-PLATED STEEL

SIZES AND WEIGHT  
WIDTH X HEIGHT X LENGTH (IN.) 4.5x43.3x4.5 MAX 23.0 lbs.  
4.5x31.5x4.5 MAX 0.0 lbs

LIGHT SOURCE  
14W LED/4000K



## LP Xperi Type SA & SB

SIZES AND WEIGHT  
WIDTH X HEIGHT X LENGTH (IN.) 13.8x4.1x29.8  
MAX 22.2 lbs.

LIGHT SOURCE - 4000K LED



### GENERAL ELECTRICAL NOTES:

- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS NOTED IN MDCPS MASTER SPECIFICATIONS AND DESIGN CRITERIA INCLUDING BUT NOT LIMITED TO PATCHING AND RE-PAINTING, LABELING OF ELECTRICAL EQUIPMENT, UPDATING OF PANEL BOARD CIRCUIT DIRECTORIES ETC.
- NOT USED
- NOT USED.
- SITE INVESTIGATION: PRIOR TO BIDDING THE CONTRACTOR SHALL VISIT THE JOBSITE AND BECOME ACQUAINTED WITH ALL OF THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITION RESULTS IN EXTRA MATERIAL OR LABOR. THE CONTRACTOR SHALL SUBMIT IN HIS BID AN AMOUNT THAT WOULD BE SET ASIDE FOR UNIDENTIFIED ITEMS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE A COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER, GENERAL CONTRACTOR, AND ENGINEER.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS, ALL IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2011 AND NFPA CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 - (2014 NEC), NFPA 12 (2013) - (FIRE ALARM) AND FLORIDA FIRE PREVENTION CODE (2014).

- THIS CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS, TESTS, FINES, ETC., AS REQUIRED.
- MINIMUM STANDARDS: THE MATERIAL, EQUIPMENT, INSTALLATION, AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CONFORM AT LEAST TO THE REQUIREMENTS OF THE REGULATING AGENCIES AS LISTED ABOVE.
- RESPONSIBILITIES: CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL REQUIRED WIRING, RACEWAYS, CONNECTIONS, ETC. INCLUDING COORDINATION WITH OTHER TRADES.
- ALL EQUIPMENT, SYSTEMS AND SYSTEM COMPONENTS SHALL BE FROM THE SAME MANUFACTURER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO ANY FABRICATION OR INSTALLATION.
- OBTAIN FULL INFORMATION REGARDING RESTRICTIONS AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT, AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATION.
- PROVIDE ACCURATE LAYOUT, GRADES AND ELEVATIONS. TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE.
- PROVIDE CODE APPROVED FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGHOUT BUILDING CONSTRUCTION TO MAINTAIN FIRE, SMOKE AND SOUND RATING. FIRE SEAL ALL PENETRATIONS. SEAL TELECOMMUNICATION SLEEVES AFTER CABLES HAVE BEEN INSTALLED.
- RACEWAYS AND FITTINGS: CONDUIT RUNS SHALL BE CONCEALED IN CEILING SPACES AND WALL PARTITIONS. NO CONDUIT SHALL BE EXPOSED IN INTERIOR SPACES. CONCEALED CONDUITS ARE TO BE EMT.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES AS WELL AS PROVIDING TEMPORARY POWER AS REQUIRED FOR THE PROJECT.
- VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS, ETC., BEFORE THE ORDERING OF ANY EQUIPMENT AND PRIOR TO ROUGH-IN FOR EQUIPMENT SUPPLIED BY OTHERS. NOTIFY ENGINEER OF ANY CONFLICT.
- PROVIDE COMPLETE POWER CIRCUIT WIRING AND CONNECTIONS FOR EACH AND EVERY ITEM OF PERMANENT MECHANICAL EQUIPMENT. PRIOR TO ANY ROUGH-IN, VERIFY HVAC AND PLUMBING EQUIPMENT NAME PLATES TO OBTAIN CORRECT WIRE SIZE AND OVERCURRENT PROTECTION RATINGS. IF THE NAME PLATE REQUIRES THE OVERCURRENT PROTECTION DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH PROPER SIZE FUSES AT THE EQUIPMENT LOCATION.
- CORRECTION OF ANY DEFECTS, REPAIRS OR DAMAGE DURING CONSTRUCTION AS WELL AS ANY MINOR CHANGES IN OUTLET LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- GUTTERS, FULL BOXES, ETC., SHALL BE GALVANIZED STEEL SIZED PER NATIONAL ELECTRICAL CODE, ARTICLE 312 AND SUITABLE FOR THE ENVIRONMENTAL CONDITIONS PRESENT.
- ALL FLOORS, WALLS AND ROOF PENETRATIONS SHALL BE PROPERLY SEALED-OFF, IF FIRE RATED, AN APPROVED FIRE RETARDANT SEALANT SHALL BE USED.
- ALL WIRING SHALL BE INSTALLED IN RACEWAYS.

#### A. INDOORS - USE THE FOLLOWING:

- EXPOSED: EMT
- CONCEALED: EMT
- CONNECTION TO VIBRATION EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT): RMC, EXCEPT IN WET OR DAMP LOCATIONS USE LPMC.
- DAMP OR WET LOCATIONS: RIGID GALVANIZED STEEL CONDUIT OR INTERMEDIATE METALLIC CONDUIT.

#### B. OUTDOORS - USE THE FOLLOWING:

- EXPOSED: RIGID GALVANIZED STEEL CONDUIT OR INTERMEDIATE METALLIC CONDUIT.
- UNDERGROUND: SCHEDULE 40 PVC

#### C. SEALING FITTINGS SHALL BE INSTALLED AS REQUIRED BY NEC.

#### 23. BOXES AND ENCLOSURES

##### A. INDOORS - USE THE FOLLOWING:

- NEMA 1 - STEEL
- NEMA 3R - STEEL DAMP LOCATION
- NEMA 4X - STAINLESS STEEL FOR WET OR CORROSIVE ENVIRONMENTS

##### B. OUTDOORS - USE THE FOLLOWING:

- NEMA 3R - MALLEABLE IRON OR STEEL
- NEMA 4X - STAINLESS STEEL FOR WET OR CORROSIVE ENVIRONMENTS

- THESE DRAWINGS ARE A GUIDE FOR THE INSTALLATION OF THE RACEWAY SYSTEM AND EQUIPMENT. THEY ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL INSTALLATION.
- CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. PROVIDE TYPE WRITTEN PANEL BOARD DIRECTORIES IN EXISTING PANEL BOARDS AFFECTED BY THIS PROJECT ELECTRONICALLY TRACING ALL CIRCUITS.
- ANY DEVIATION FROM THESE DRAWINGS AND SPECIFICATIONS MUST BE AUTHORIZED IN WRITING BY THE ENGINEER PRIOR TO MAKING ANY CHANGES. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DEVIATIONS WITHOUT SUCH AUTHORIZATION.
- ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122.
- PROVIDE NYLON PULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE.
- ANY WORK NOT SHOWN OR SPECIFICALLY MENTIONED ON THESE PLANS BUT CONSIDERED NECESSARY FOR COMPLETION OF WORK IN THE PROPER MANNER SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER.
- CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT. CONTRACTOR IS TO COORDINATE HIS WORK WITH THE ARCHITECT BEFORE ROUGH INSTALLATION OF ALL OUTLETS (LIGHTS, RECEPTACLES, SWITCHES, PULL BOXES, ETC.) FOR EXACT LOCATION.
- ALL ELECTRICAL EQUIPMENT SUCH AS PANELS, FULL AND JUNCTION BOXES, FEEDERS, ETC. SHALL BE PROPERLY IDENTIFIED WITH A PERMANENT LABEL AFFIXED TO THE EQUIPMENT. IDENTIFY CIRCUITS IN PANELS BY MEANS OF A TYPED, PLASTIC COVERED DIRECTORY.
- ALL SERVICE INTERRUPTIONS AND ALL REMOVAL AND DISPOSAL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE AUTHORIZED OWNER REPRESENTATIVE.
- CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PRINTS FOR INDICATING ALL CHANGES AS WORK PROGRESSES. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER A SET OF AS-BUILT DRAWINGS TO THE OWNER IN REPRODUCIBLE FORM. CONTRACTOR SHALL STAMP AS-BUILT ON EACH DRAWING AND INCLUDE SIGNATURE AND DATE.
- CONTRACTOR IS RESPONSIBLE FOR REPLACING SURFACES, WALLS, CEILINGS, FLOORS, PARTITIONS, PAVEMENT, ETC. AFFECTED BY THE IMPLEMENTATION OF WORK SHOWN ON THESE DRAWINGS. UPON COMPLETION OF WORK, RESTORE ALL AFFECTED SURFACES MATCHING SURROUNDING SURFACE.
- TELECOM RACEWAYS, EMPTY BOXES AND PULL STRINGS TO BE INSTALLED BY CONTRACTOR WIRING AND WIRING DEVICES AND FINAL CONNECTION IS TO BE BY INSTALLED BY OWNER'S CONTRACTOR UNDER SEPARATE PERMIT.
- ELECTRICAL EQUIPMENT TO BE PROVIDED WITH A WARNING LABEL FOR ARC FLASH HAZARDS IN COMPLIANCE WITH NEC 100.16.
- PROJECT TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF NFPA 241 "STANDARDS FOR SAFE GUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS."
- CONTRACTOR SHALL PROVIDE THE REQUIRED MEASURES FOR THE SAFEGUARDING OF THE EXISTING FACILITY AND SYSTEMS THEREIN DURING THE PERFORMANCE OF THE WORK SHOWN ON THESE DRAWINGS PER NFPA 241.
- CONTRACTOR SHALL MAINTAIN THE FACILITIES FIRE ALARM SYSTEM IN A COMPLETE AND FUNCTIONAL STATUS DURING ALL PHASES OF CONSTRUCTION.

### LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER / CATALOG NUMBER	NUMBER OF LAMPS	VOLTS	MOUNTING	REMARKS
SA	LOUIS POULSEN * L11662A X PERI LED L1 ASY3 4000K	33 WATT LED	211	POLE AT 10'-0" A.F.G.	
SB	LOUIS POULSEN * L11678A X PERI LED H1 ASY3 4000K A0100	66 WATT LED	211	POLE AT 12'-0" A.F.G.	
SC	LOUIS POULSEN * FLINDT 91608 US L11115 FLINDT-B LED 4000K V00 B0100	14 WATT LED	211	BOLLARD ANCHOR BASE	

NOTE: THE CONTRACTOR SHALL PROVIDE TO OWNER 5 ADDITIONAL TYPE (SA) FIXTURES COMPLETE WITH POLES AND 4 ADDITIONAL TYPE (SC) BOLLARDS

### ELECTRICAL SYMBOL LEGEND

#### LIGHTING

LIGHTING FIXTURE TYPE. SEE LTG. FIXTURE SCHEDULE THIS SHEET



NEW POLE LIGHT



NEW BOLLARD LIGHT



EXISTING POLE LIGHTS TO BE REMOVED

#### BOXES & FITTINGS

JUNCTION BOX



PULL BOX, SIZED AS INDICATED OR AS REQUIRED BY NEC



HAND HOLE



#### PANELBOARDS

POWER, LIGHTING OR DISTRIBUTION PANELBOARD. (NEW)



#### MOTORS & CONTROLS

MOTOR, 5 = 5 HP. OR AS OTHERWISE INDICATED.

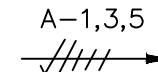


MOTOR MAGNETIC STARTER

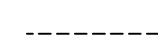


#### WIRING

HOMERUN TO PANEL 'A'1-3-5 ARE CIRCUIT NO'S. TICKS ARE NO. OF CONDUCTORS ( / ) INDICATES GROUND WIRE SIZED AS PER NEC, ART. 250.



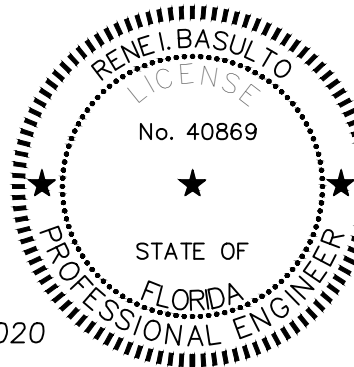
INDICATES A CONDUIT RUN CONCEALED IN FLOOR EMBEDDED IN CONCRETE OR UNDERGROUND AT 24" BELOW GRADE MINIMUM.



### PROJECT SCOPE OF WORK

THE ELECTRICAL SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO:

- REMOVAL OF EXISTING LIGHT FIXTURES, POLES, HAND-HOLES AND ANCHOR BASES INCLUDING DISPOSAL OF THESE ITEMS.
- PROVISION AND INSTALLATION OF NEW POLE LIGHT FIXTURES AND RELATED ELEMENTS INCLUDING NEW ELECTRIC CIRCUITRY WITH CONNECTION TO EXISTING ELECTRICAL EQUIPMENT.
- ELECTRICAL CONNECTION TO NEW ELECTRIC WATER COOLER.



08-12-2020

This item has been digitally signed and sealed by Rene I. Basulto, 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.



**G. M. SELBY, Inc.**  
CONSULTING ENGINEERS  
TEL : (305) 666-5775  
FAX : (305) 666-5268

Drawing Title:  
GENERAL NOTES AND SYMBOL LEGEND

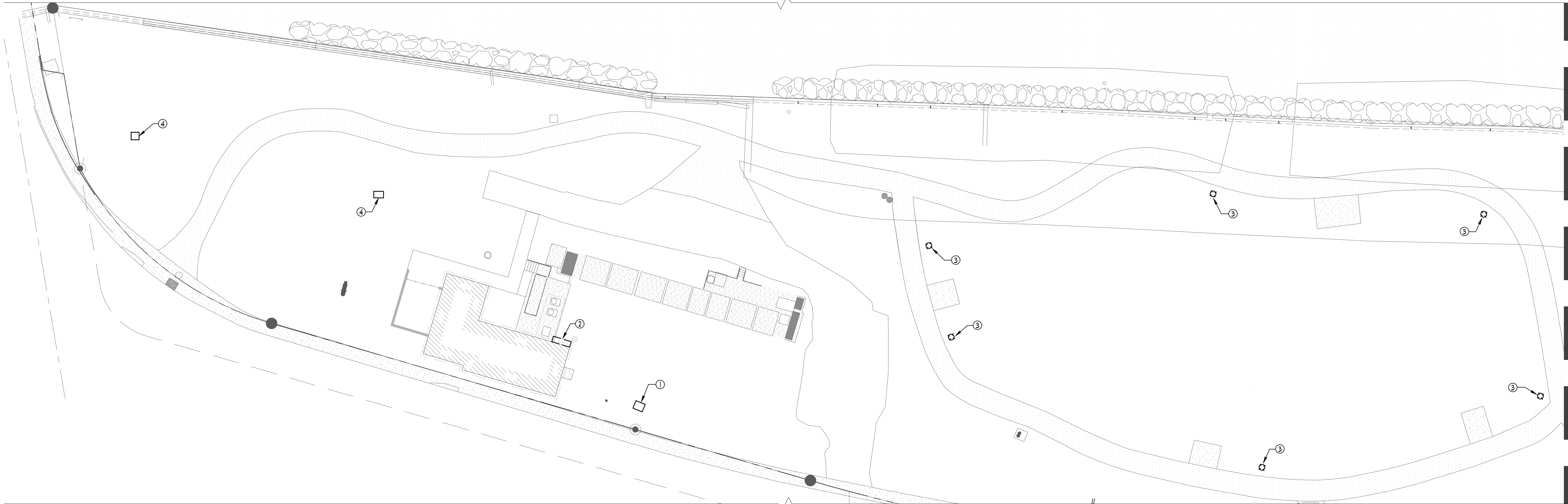
Filename: 16089-E-1.0-General Notes.dwg

Date: 08-12-2020 Sheet: 43 of 48

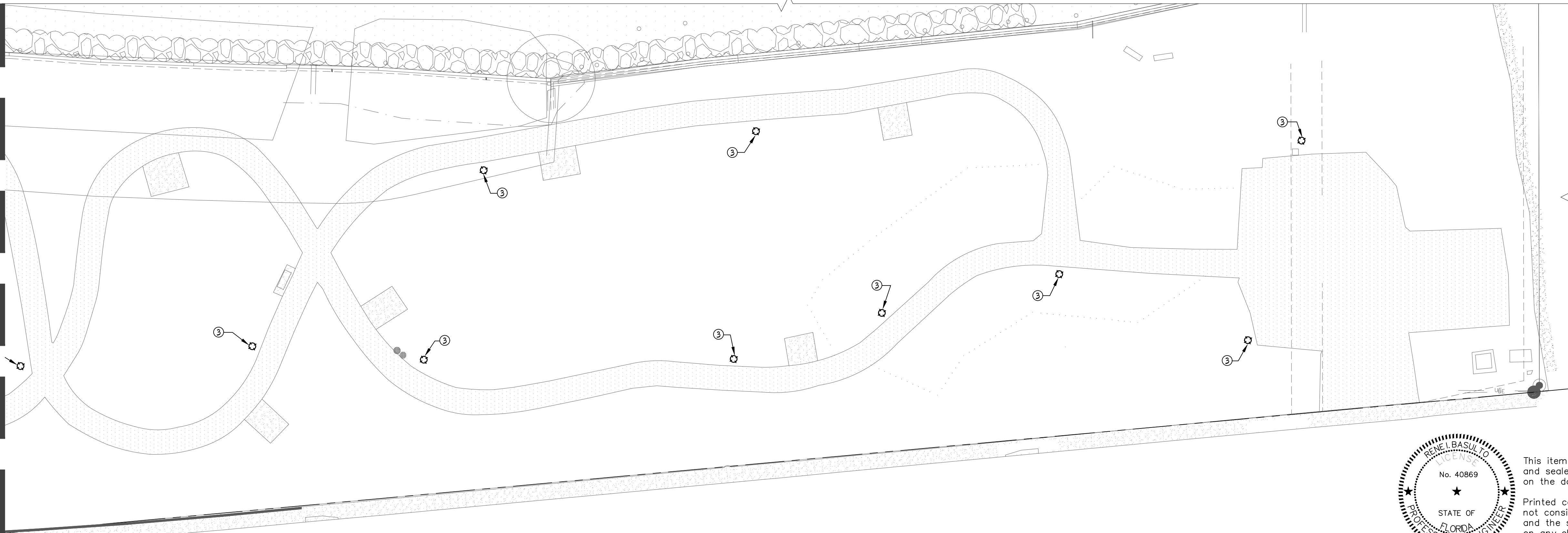
Drawing No.:

E-1.0



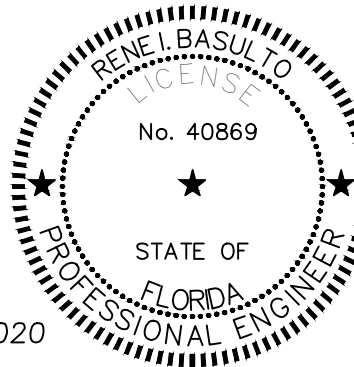
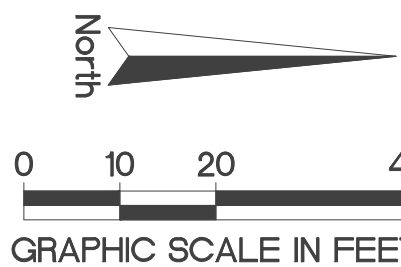


MATCHLINE 'A' - SEE BELOW



MATCHLINE 'A' - SEE ABOVE

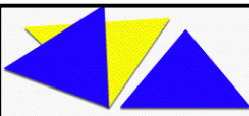
- NOTES:
- ① EXISTING FLORIDA POWER AND LIGHT COMPANY PAD MOUNTED TRANSFORMER TO REMAIN.
  - ② EXISTING ELECTRICAL SERVICE MAINS #1 AND #2 OF 2 TO BE MODIFIED. REFER TO ELECTRICAL RISER - DEMOLITION.
  - ③ EXISTING LIGHT FIXTURE, POLE, POLE ANCHOR BASE AND RELATED "HAND-HOLE" TO BE REMOVED AND DISPOSED OF. CONTRACTOR SHALL EXTRACT CIRCUIT WIRING FROM CONDUITS, CUT CONDUITS TO 24" BELOW GRADE AND ABANDON.
  - ④ EXISTING LIGHT FIXTURE ANCHOR BASE (NO LIGHT FIXTURE OR POLE) AND RELATED "HAND-HOLE" TO BE REMOVED AND DISPOSED OF. CONTRACTOR SHALL EXTRACT CIRCUIT WIRING FROM CONDUITS, CUT CONDUITS TO 24" BELOW GRADE AND ABANDON.




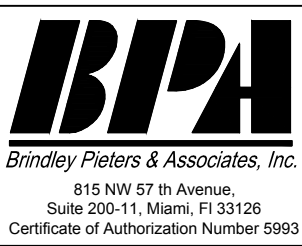
08-12-2020

This item has been digitally signed and sealed by Rene I. Basulto, 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.



**G. M. SELBY, Inc.**  
CONSULTING ENGINEERS  
7408 SW 48TH STREET  
MIAMI, FL 33155  
TEL : (305) 666-5775  
FAX : (305) 666-5268

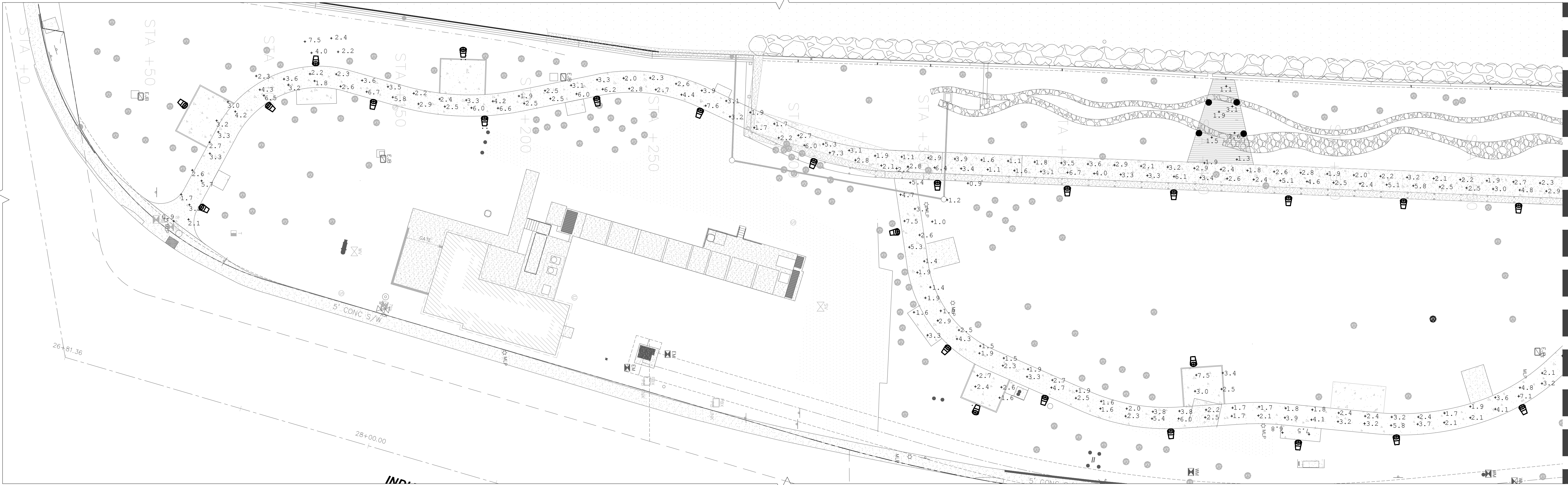
	PROJECT: BRITTANY BAY PARK RENOVATION		SUB-CONSULTANT	ENGINEER OF RECORD _____	ENGINEER OF RECORD:							
	ADDRESS: 6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141			DESIGN ENGINEER _____								
				DRAWN BY: _____								
				CHECKER: _____								
				SCALE: AS INDICATED								
						NO.	DATE	REVISION	APP'D. BY	Date: 08-12-2020	Sheet: 44 of 48	

Drawing Title: ELECTRICAL SITE PLAN DEMOLITION	Drawing No.: <b>E-2.0</b>
Filename:16089-E-2.0-Electrical Demolition Plan.dwg	







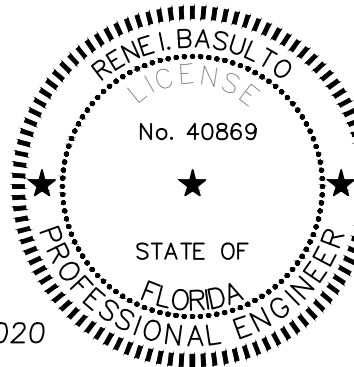


MATCHLINE A' - SEE BELOW



MATCHLINE A' - SEE ABOVE

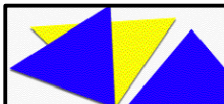
BRITTANY BAY PARK						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
EXERCISE PADS (TYPICAL)	Fc	3.70	5.6	2.4	1.54	2.33
PARKING	Fc	4.08	10.2	1.1	3.71	9.21
PATHWALKS	Fc	3.49	10.1	0.6	5.82	16.83



08-12-2020

This item has been digitally signed and sealed by Rene I. Basulto, 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.

**G. M. SELBY, Inc.**  
CONSULTING ENGINEERS  
7408 SW 48TH STREET  
MIAMI, FL 33155  
TEL : (305) 666-5775  
FAX : (305) 666-5268

NO.	DATE	REVISION



PANEL: H				SQUARE 'D' NF WITH COPPER BUS AND VERTICALLY MOUNTED 50 AMP MAIN CIRCUIT BREAKER. BREAKER RATED 10000 A.I.C. AND LISTED FOR SERVICE ENTRANCE												
NEMA 4X-3/16 GRADE S.S.				277/480V, 3 PH, 4 W.										SURFACE MTD.		
CKT.	WIRE	COND.	BKR.	SERVES			LOAD V-A			SERVES			BKR.	COND.	WIRE	CKT.
					A *	B *	C *									
1	2	2	20	SITE LIGHTING - WEST SIDE			355			PANEL 'L'			2	1	1	2
3			20	SITE LIGHTING - EAST SIDE & PARKING			112						15			4
5	12	3/4"	15	CONTACTORS			50			SPACE						6
7				SPACE						SPACE						8
9				SPACE						SPACE						10
11				SPACE						SPACE						12
13				SPACE						SPACE						14
15				SPACE						SPACE						16
17				SPACE						SPACE						18
				CONNECTED V-A PER Ø			3455	3622	50	CONNECTED LOAD:			1 KVA			
				TOTAL AMPS. PER Ø			13	13	2							

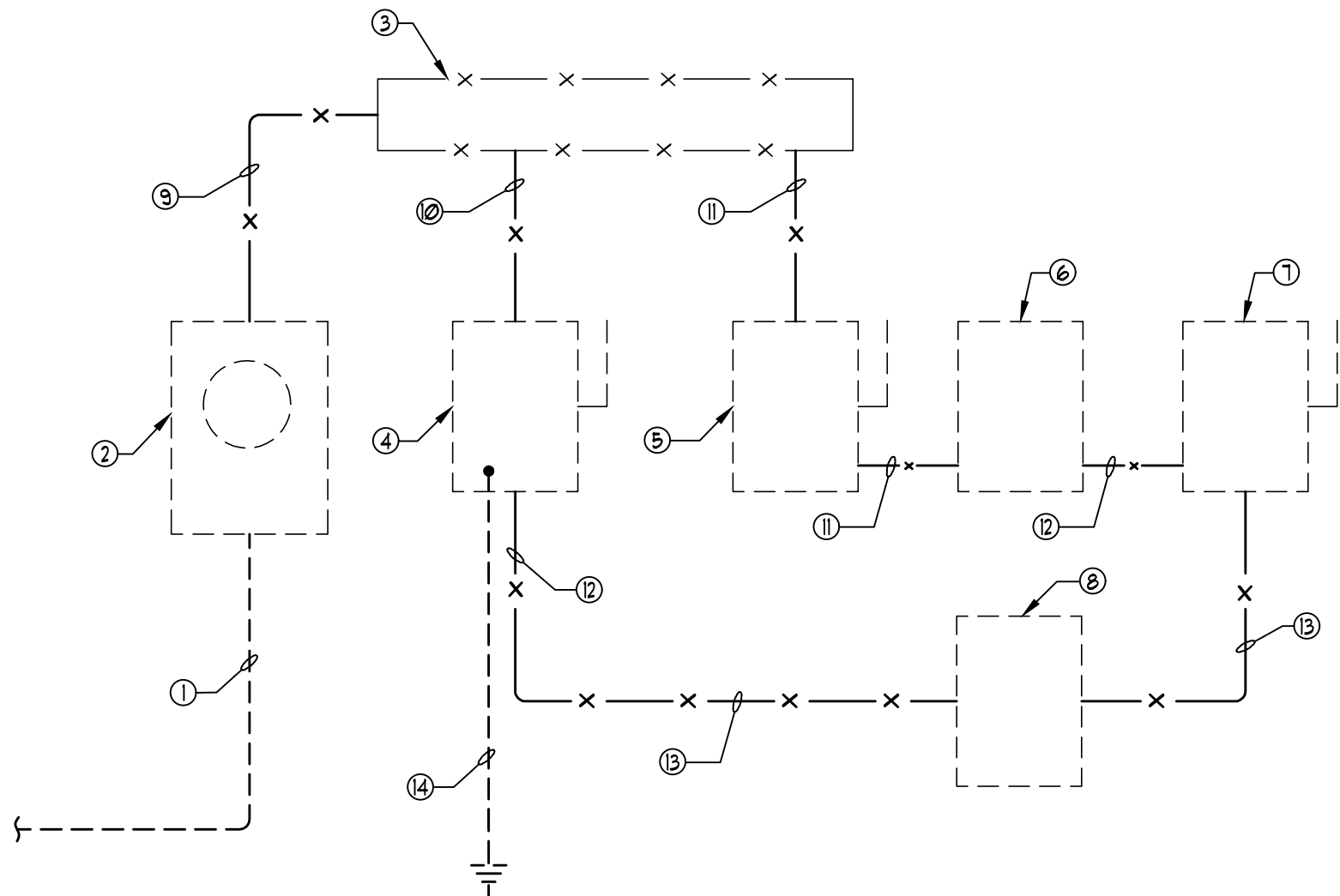
① REFER TO ELECTRICAL RISER FOR WIRE AND CONDUIT SIZES.

② REFER TO ELECTRICAL SITE PLAN - NEW WORK FOR WIRE AND CONDUIT SIZES.

③ VIA 4 POLE, 60 AMP, SQUARE 'D' NEMA TYPE LIGHTING CONTACTOR CONTROLLED BY PHOTOCELL

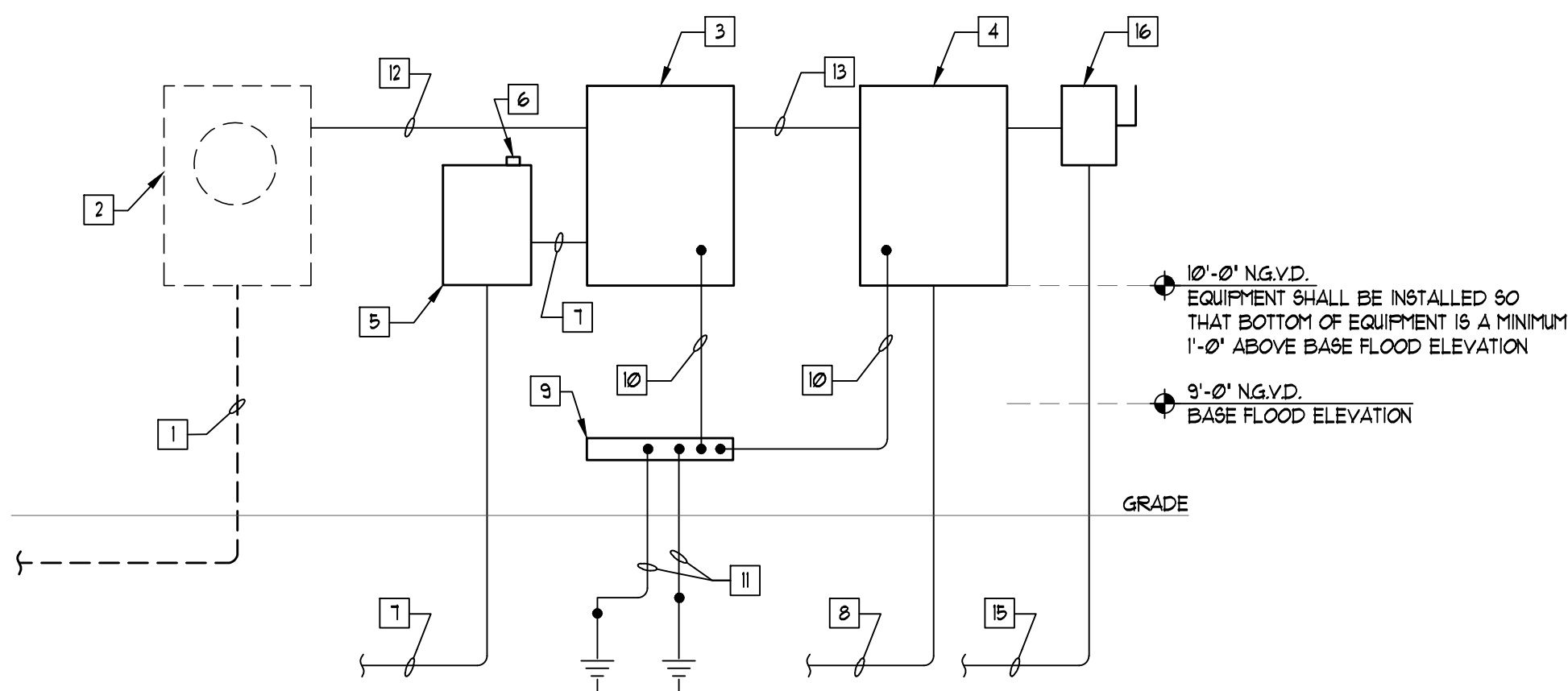
PANEL: L				SQUARE 'D' MINI POWER ZONE WITH COPPER BUS, BOLTED CIRCUIT BREAKERS, 480 VOLT, 15 AMP PRIMARY CIRCUIT BREAKER, 120-240 VOLT, 30 AMP SECONDARY CIRCUIT BREAKER AND INTEGRAL 5KVA TRANSFORMER NEMA 4X-3/16 GRADE STAINLESS STEEL ENCLOSURE								10,000 A.I.C.	
NEMA 4X-3/16 GRADE S.S.												SURFACE MTD.	
CKT.	WIRE	COND.	BKR.	SERVES	LOAD A ∅	V-A B ∅	C ∅	SERVES	BKR.	COND.	WIRE	CKT.	
1	(1)	(1)	20	ELECTRIC WATER COOLER-SOUTH	600	200		IRRIGATION CONTROLLER	20	(1)	(1)	2	
3	(1)	(1)	20	ELECTRIC WATER COOLER-NORTH	600			SPACE				4	
5				SPACE				SPACE				6	
7				SPACE				SPACE				8	
9				SPACE				SPACE				10	
CONNECTED V-A PER ∅					800	600		CONNECTED LOAD:	14 KVA				
TOTAL AMPS. PER ∅					1	5							

① REFER TO ELECTRICAL SITE PLAN - NEW WORK FOR WIRE AND CONDUIT SIZES.



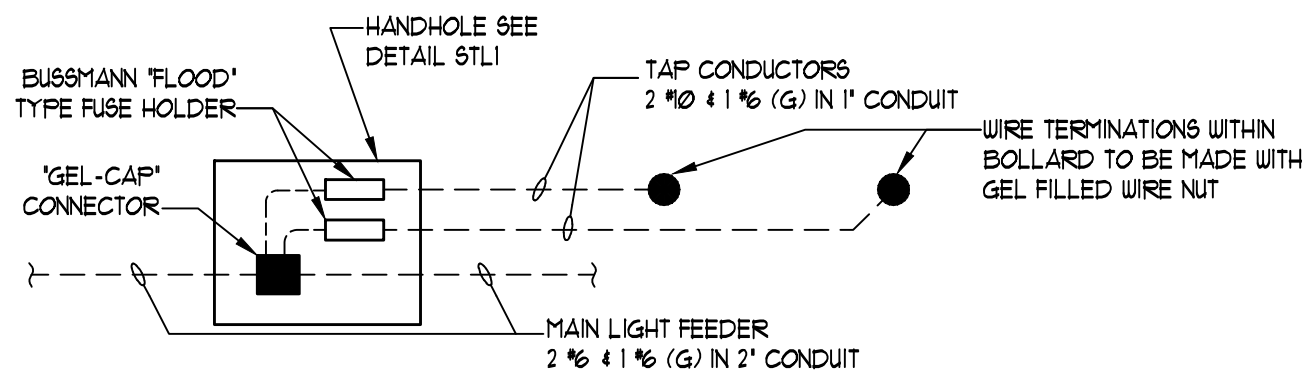
## ELECTRICAL RISER - DEMOLITION

N.T.S.



## ELECTRICAL RISER - NEW WORK

N.T.S.



## BOLLARD WIRING DETAIL

N.T.S.

### ELECTRICAL RISER KEY NOTES:

- EXISTING ELECTRICAL SERVICE LATERAL RUN TO FLORIDA POWER AND LIGHT COMPANY PAD MOUNTED TRANSFORMER TO REMAIN.
- EXISTING ELECTRICAL SERVICE METER TO REMAIN.
- EXISTING ELECTRICAL WIREWAY TO BE REMOVED.
- EXISTING ELECTRICAL SERVICE MAIN #1 OF 2 TO BE REMOVED.
- EXISTING ELECTRICAL SERVICE MAIN #2 OF 2 TO BE REMOVED.
- EXISTING STEP DOWN TRANSFORMER TO BE REMOVED.
- EXISTING TRANSFORMER SECONDARY DISCONNECT SWITCH TO BE REMOVED.
- EXISTING RELAY CABINET TO BE REMOVED.
- EXISTING WIREWAY FEEDER TO BE REMOVED.
- EXISTING SERVICE MAIN FEEDER TO BE REMOVED.
- EXISTING TRANSFORMER FEEDER TO BE REMOVED.
- EXISTING TRANSFORMER SECONDARY DISCONNECT FEEDER TO BE REMOVED.
- EXISTING RELAY CABINET FEEDER TO BE REMOVED.
- EXISTING GROUND CONDUCTOR TO BE REMOVED

### ELECTRICAL RISER KEY NOTES:

- EXISTING ELECTRICAL SERVICE LATERAL RUN TO FLORIDA POWER AND LIGHT COMPANY PAD MOUNTED TRANSFORMER. 4" X 8" THIN COPPER IN 1" CONDUIT.
- EXISTING ELECTRICAL SERVICE METER.
- NEW PANEL 'H' AND ELECTRICAL SERVICE MAIN #1 OF 1.
- NEW PANEL 'L'.
- NEW NEMA TYPE CONTACTOR IN 'NEMA 4X' 3/16 GRADE STAINLESS STEEL CABINET. PROVIDE CONTACTORS WITH 277 VOLT COILS.
- NEW PHOTOCELL CONTROL TORK# 216 SERIES.
- NEW LIGHTING CIRCUIT WIRING AND CONDUIT.
- NEW ELECTRIC WATER COOLER WIRING AND CONDUIT.
- NEW GROUND COLLECTOR BUS. 4" X 8" X 1/4" COPPER. EXOTHERMIC WELD CONNECTIONS.
- NEW GROUNDING ELECTRODE CONDUCTOR. 1" X 6" THIN COPPER RUN IN SCHEDULE 40 PVC CONDUIT. EXOTHERMIC WELD CONNECTIONS.
- 1" X 6" GROUND ELECTRODE CONDUCTOR RUN IN 3/4" CONDUIT TO TWO 3/4" X 20'-0" COPPER CLAD GROUND RODS. GROUND RODS TO BE INSTALLED A MINIMUM OF 20'-0" APART IN A GRASSY AREA AND PROTECTED BY A 'QUAZITE' GROUND BOX. EXOTHERMIC WELD ALL CONNECTIONS.
- 4" X 8" THIN COPPER IN 1" R.G.S. CONDUIT.
- 2" X 2" AND 1" X 2" (G) THIN COPPER IN 3/4" R.G.S. CONDUIT.
- ALL ABOVE GROUND CONDUITS INCLUDING BELOW GROUND 'SLEEP' AND RISER SHALL BE RIGID GALVANIZED STEEL CONDUIT. CONDUITS SHALL BE PAINTED WITH TWO COATS OF BITUMASTIC TO A MINIMUM OF 18" ABOVE GRADE.
- NEW IRRIGATION CONTROLLER CIRCUIT WIRING AND CONDUIT TO SECOND DISCONNECT SWITCH AT IRRIGATION CONTROLLER.
- 2 POLE, 30 AMP, NON-FUSED 'NEMA 4X', 3/16 GRADE STAINLESS STEEL DISCONNECT SWITCH.
- ALL HARDWARE USED FOR EQUIPMENT MOUNTING SHALL BE 3/16 GRADE STAINLESS STEEL.



August 7, 2019

G.M. SELBY, INC.  
7408 SW 48TH ST  
MIAMI, FL 33155

Re: Available Fault Current for BRITTANY BAY PARK RENOVATION

Dear G.M. SELBY, INC:

Thank you for contacting FPL about the available fault current at BRITTANY BAY PARK RENOVATION. Based on the plans you have provided dated June 13 2019, the maximum available fault current at the transformer secondary terminals is estimated to be 20821 symmetrical amperes at 277/480 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 65 amp type Bayonet fuse. The primary service voltage is 13.2KV L-L. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me. I have enclosed my business card for easy reference and look forward to hearing from you in the near future.

Sincerely,

FRANCISCO GALUE  
Engineer II

FPL PAD MOUNT TRANSFORMER  
INITSYMR15 3P 2082100 A  
SYSTEM NOMINAL VOLTAGE 480.0 V

SERVICE LATERAL TO METER  
CABLE SIZE 8 AWG/KCMIL  
QTY PER PHASE 1  
CONDUCTOR TYPE COPPER  
LENGTH 48.0 FT

METER  
SYSTEM NOMINAL VOLTAGE 480.0 V  
INITSYMR15 3P 630851 A

PANEL H FEEDER  
CABLE SIZE 8 AWG/KCMIL  
QTY PER PHASE 1  
CONDUCTOR TYPE COPPER  
LENGTH 3.0 FT

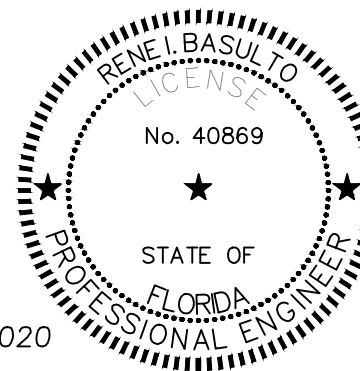
PANEL H MAIN CIRCUIT BREAKER

PANEL H BUS  
SYSTEM NOMINAL VOLTAGE 480.0 V  
INITSYMR15 3P 5309350 A

## ONE LINE DIAGRAM - SHORT CIRCUIT ANALYSIS

N.T.S.

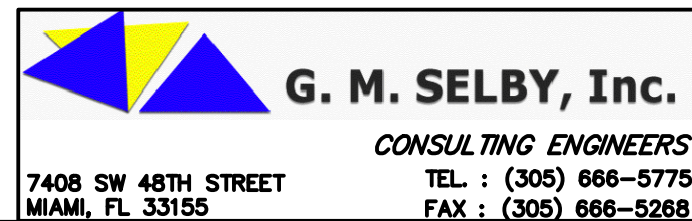
PREPARED ON SKM - SYSTEM ANALYSIS, INC. - POWER TOOLS SOFTWARE



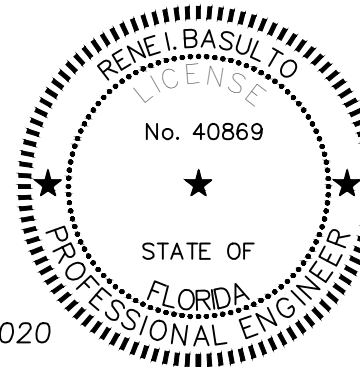
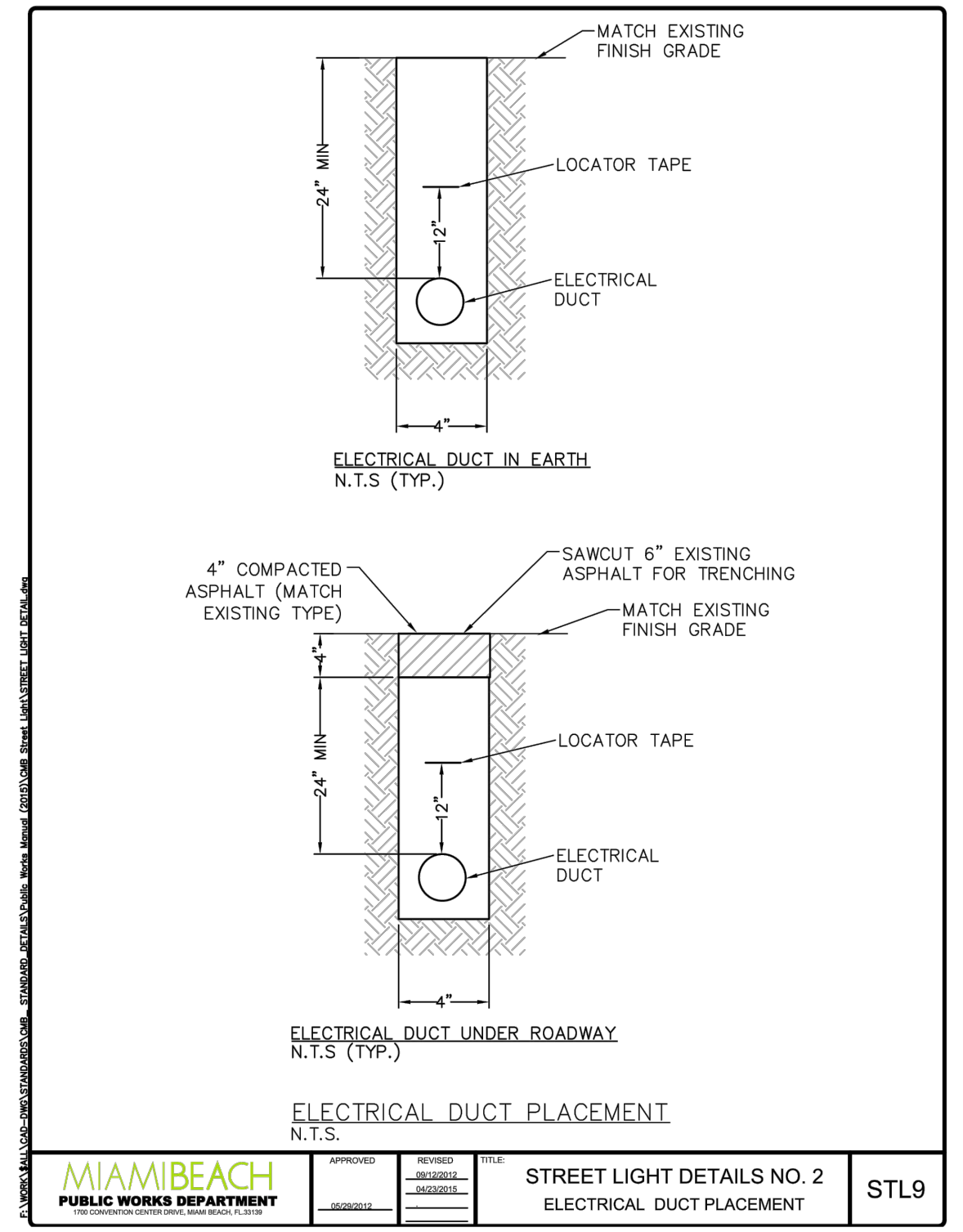
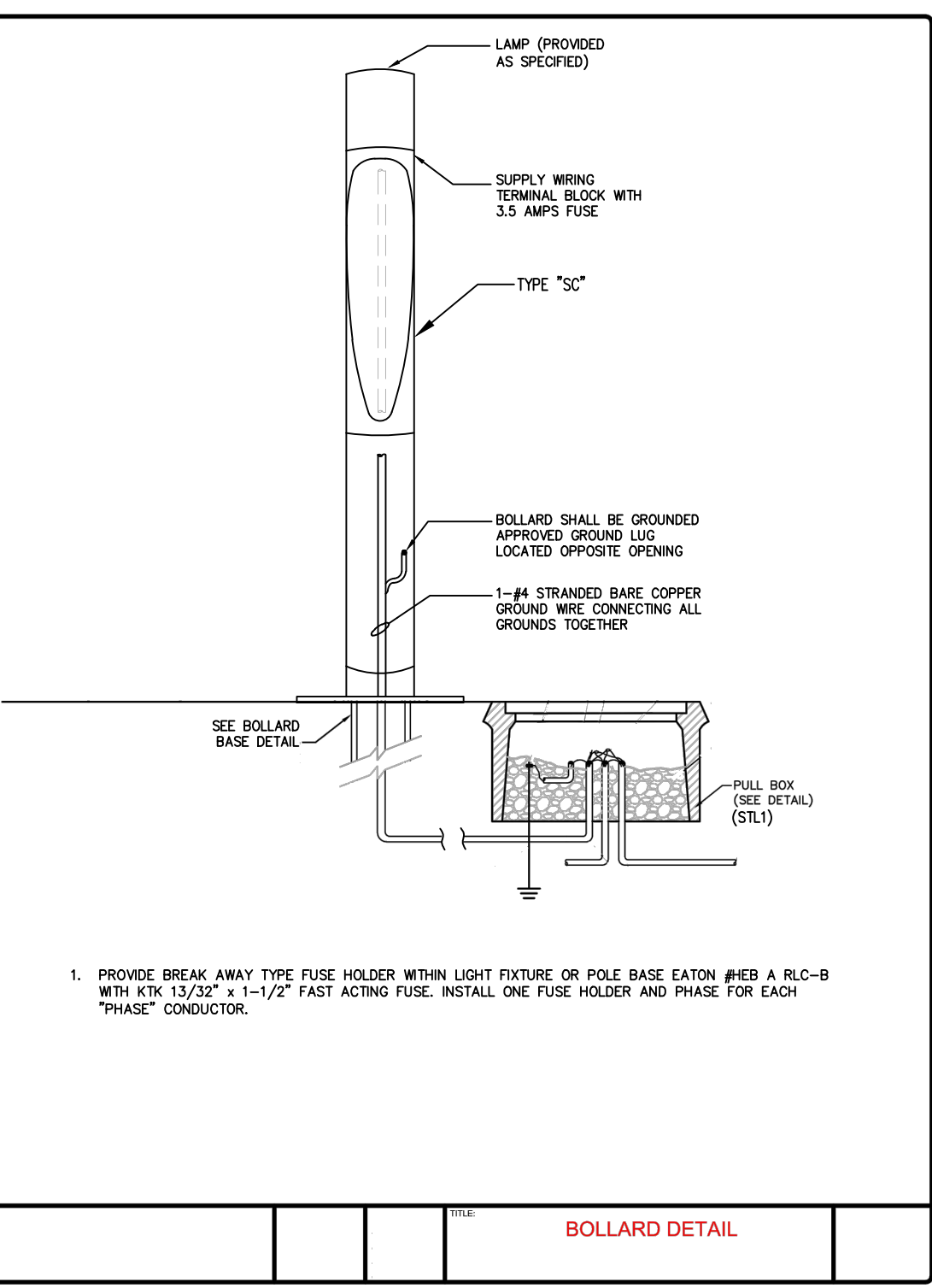
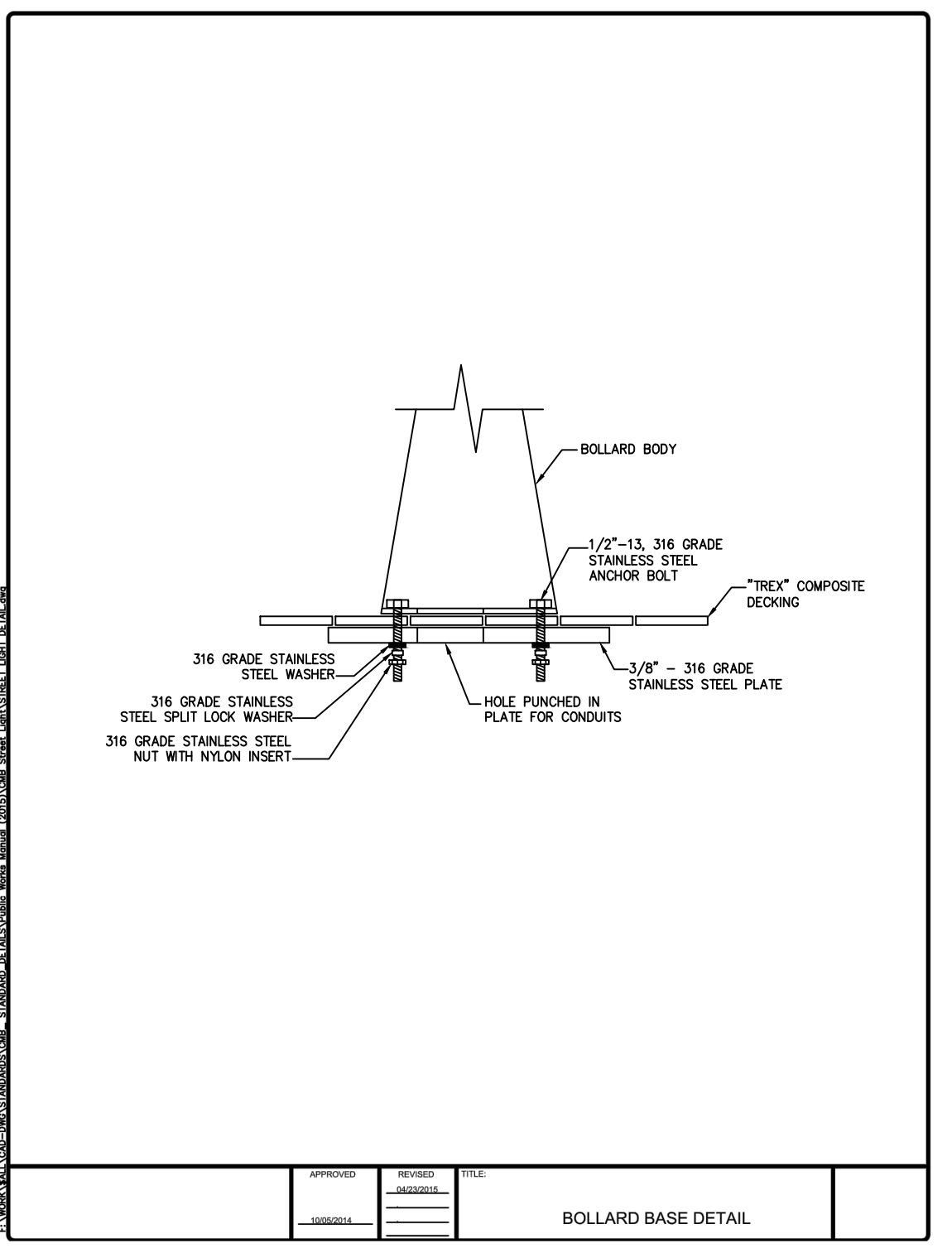
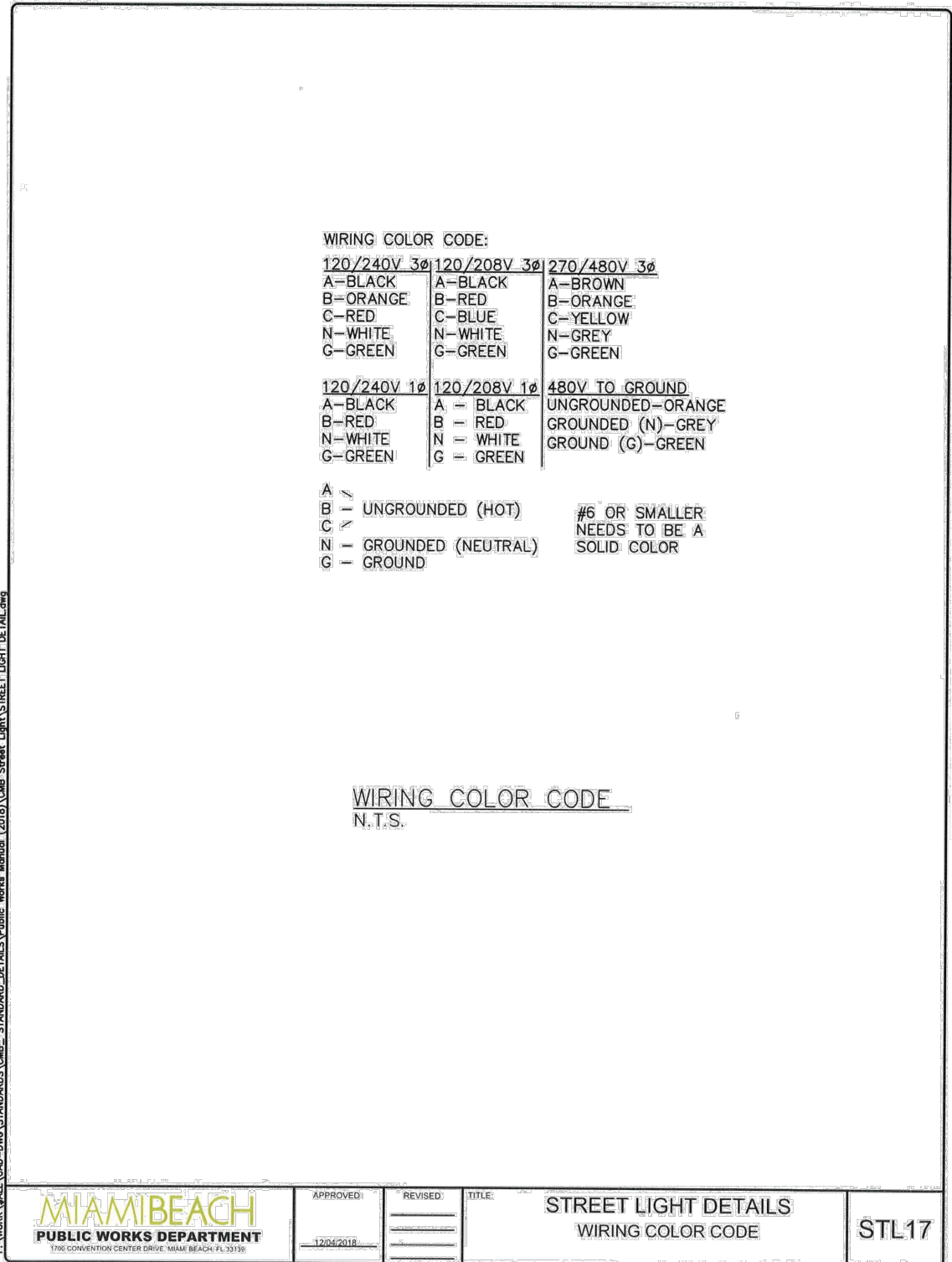
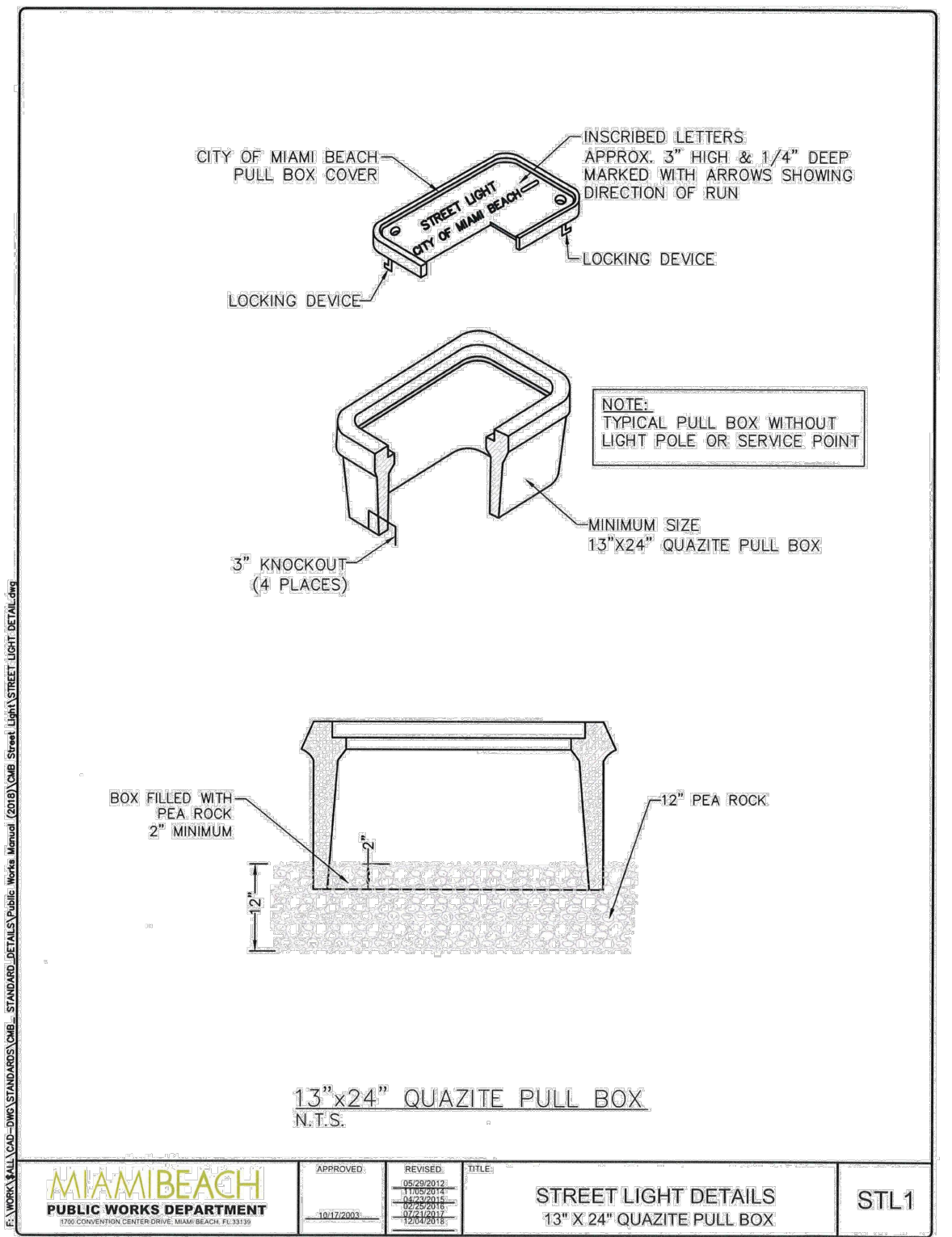
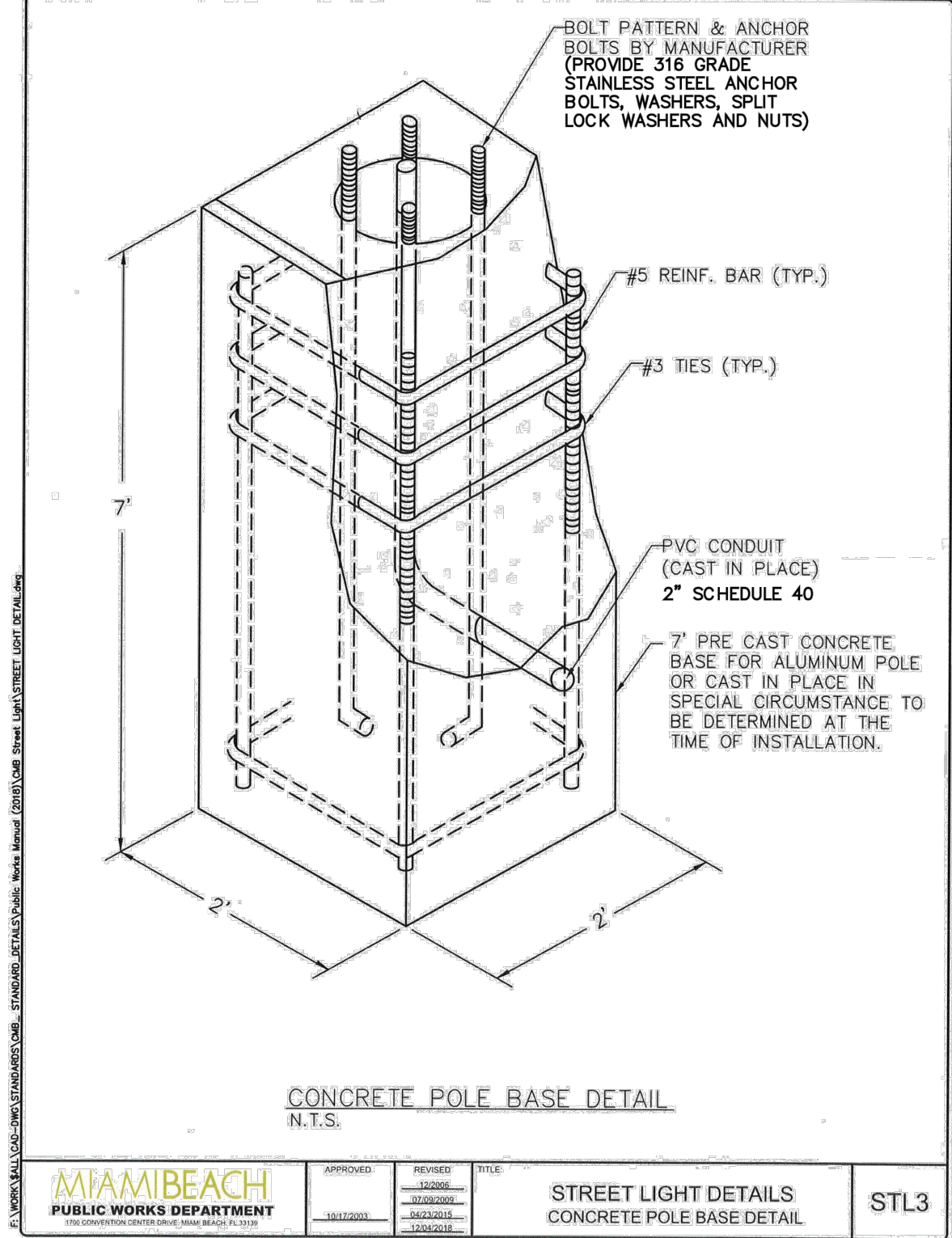
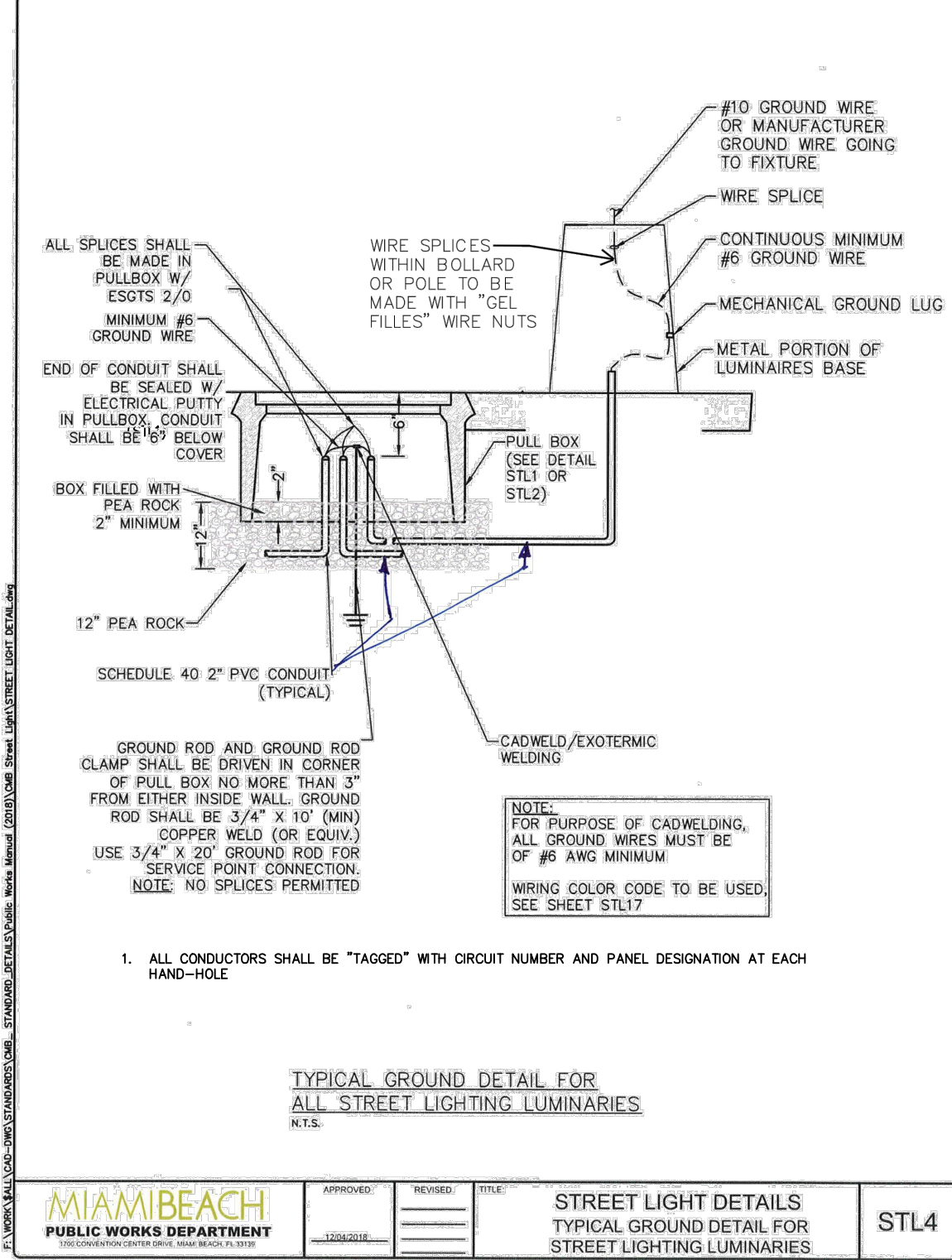
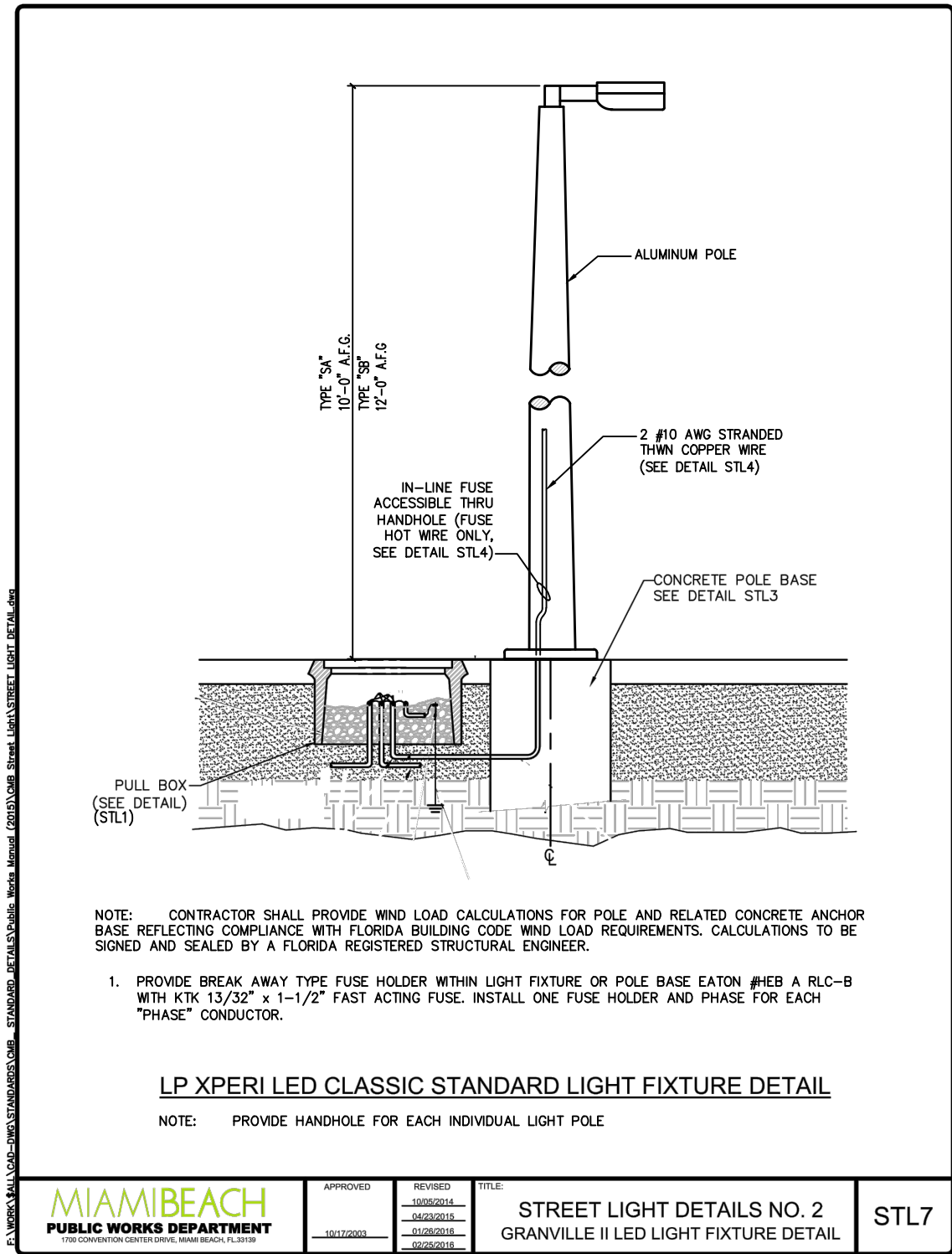
08-12-2020

This item has been digitally signed and sealed by Rene I. Basulto, 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.







08-12-2020

This item has been digitally signed and sealed by Rene I. Basulto, 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.

**G. M. SELBY, Inc.**  
CONSULTING ENGINEERS  
7408 SW 48TH STREET  
MIAMI, FL 33155  
TEL : (305) 666-5775  
FAX : (305) 666-5268