

LIGHTING PLAN  
SCALE: 1" = 20'-0"

- GENERAL NOTES:**
- LIGHTING TO BE INSTALLED IN ACCORDANCE WITH THE CHAPTER 10 OF PSE&G CONSTRUCTION STANDARDS MANUAL (REV 01.01; DECEMBER 1, 2013).
  - ILLUMINATION LEVELS AS SHOWN ASSUME ALL EXISTING LIGHTS TO REMAIN HAVE BEEN REPLACED WITH UPDATED PSE&G STANDARD LUMINAIRES. SEE FIXTURE SCHEDULE BELOW FOR DETAILS.
  - MINIMUM MAINTAINED HORIZONTAL ILLUMINATION 0.0 FC
  - AVERAGE MAINTAINED HORIZONTAL ILLUMINATION 2.0 FC
  - MAXIMUM MAINTAINED HORIZONTAL ILLUMINATION 44.3 FC
  - MAXIMUM MAINTAINED VERTICAL ILLUMINATION AT GRADE AT 50' PERIMETER FROM FENCE LINE 0.0 FC
  - LIGHT LEVELS AT THE EDGE OF THE PROPERTY MEET BOROUGH CODE. LIGHTING ANALYSIS WAS COMPLETED ASSUMING THAT ALL DOWN LIGHTS WERE ON DUSK TO DAWN FOR WORST CASE SCENARIO. PSE&G WILL PERFORM POST INSTALLATION INSPECTION TO DETERMINE WHICH LIGHTS TO REMAIN ON DUSK TO DAWN.
  - MAINTAINED HORIZONTAL ILLUMINATION LEVELS AS SHOWN ARE CALCULATED AT GROUND LEVEL.

- NOTES:**
- DOWN LIGHTS WILL NORMALLY BE ON FOR GENERAL ILLUMINATION AND SECURITY PURPOSES.
  - Fc = FOOT CANDLES
  - \* DENOTES EMERGENCY/MAINTENANCE LIGHTING
  - \*\* TYPE #3 & 3A FIXTURES TO REPLACE EXISTING FLOOD LIGHTS MOUNTED ON FIREWALL. ALL FIXTURES TO BE REPLACED AT THE SAME ELEVATION, 13'-8".
  - MOUNTING HEIGHT OF TYPE #1 & 2 FIXTURES ARE 8'-6" MIN.
  - UPLIGHTS ARE SWITCHED AT LIGHT POSITIONS. WHERE AN UPLIGHT IS NOT INSTALLED, USE RSP0 BLANKS IN PLACE OF SWITCH ASSEMBLY.
  - UPLIGHTS, DOWNLIGHTS, & RECEPTACLES SHALL HAVE A SEPARATE CIRCUIT. SEE SCHEMATIC DRAWING ON DWG.#760806-A-00.
  - ARM BRACKETS (DOUBLE OR SINGLE) ARE INTEGRAL PARTS OF UPLIGHTS / DOWNLIGHTS LUMINAIRE WHEN PLACING PURCHASE ORDER
  - PROVIDE MIN. OF 12" GAP BET. OPTICAL ASSEMBLY AND BOT. OF DISC SW BASES FOR BULB MAINTENANCE PURPOSES

- LEGEND:**
- PROPERTY LINE
  - - - 50'-0" FENCE PERIMETER
  - FLOODLIGHT AIMING DIRECTION

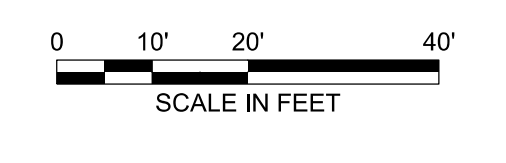
- REFERENCE DRAWINGS:**
- GROUNDING & LIGHTING PLAN.....DWG#232008-A
  - KEY PLAN & PROFILE.....DWG#740554-A
  - "LED" LIGHTING DESIGN, FIXTURE SCHEDULES, & DETAILS.....DWG#760806-A

- CONSTRUCTION NOTES:**
- PROVIDE AND INSTALL COMPLETE MOUNTING ACCESSORIES AS NECESSARY AND AS REQUIRED.
  - MOUNTING ACCESSORIES TO BE PROVIDED BY LUMINAIRE MANUFACTURER AS A PACKAGE WITH LUMINAIRE OR TO BE SELECTED ON THE RECOMMENDATION OF LUMINAIRE MANUFACTURER TO SUIT FOR SPECIFIC INSTALLATION CONDITION.
  - CATALOGUE NUMBER LISTED TO BE USED FOR INTERPRETATION PURPOSE ONLY. ALL REQUIREMENTS SHOWN IN LUMINAIRE SCHEDULE TO BE FULFILLED REGARDLESS OF CATALOGUE NUMBER SHOWN. CONTRACTOR TO SELECT COMPLETE CATALOGUE NUMBER.
  - MINIMUM LUMEN OUTPUT SHOWN IN LUMINAIRE SCHEDULE HAVE BEEN USED IN THE LUMINAIRE CALCULATION FOR LAYING OUT LUMINAIRES IN PLAN DRAWINGS. EXECUTE LUMINOUS CALCULATION AND REVERSE LIGHTING PLAN DRAWING TO MATCH WITH ORIGINAL DESIGN REQUIREMENT FOR ILLUMINATION LEVEL. IF OUTPUT LUMEN OF SELECTED LUMINAIRE IS LESS THAN MINIMUM LUMEN OUTPUT SHOWN, CONTRACTOR TO SUBMIT ALL CALCULATION RESULTS AND REVISED DRAWINGS IF CONTRACTOR WANTS TO APPLY ALTERNATIVE LUMINAIRE NOT LISTED IN FIXTURE SCHEDULE.
  - MOUNT LIGHTING FIXTURES & OUTLET BOXES ON CONC. WALLS OR COLUMNS. USE YOKE MOUNTING FRAME & BOLTS ON LIGHTING FIXTURES. DRILLING AS PER MANUFACTURER'S REQUIREMENT.

**FIXTURE SCHEDULE**

LIGHTING FIXTURE	MANUFACTURER'S CATALOG NO./CUT SH.	FIXTURE DESCRIPTION	LIGHT LOSS FACTOR	LED WATTAGE & VOLTAGE	MTG HEIGHT & DEGREE TILT	MOUNTING, ALL FIXTURES 2-HOLE ADJUSTABLE YOKE	QTY	REMARKS
* TYPE #1	HOLOPHANE LIGHTING PETROLUX LED PLED2 18L 4K 12 UN NA GL5	STANDARD UPLIGHT "LED" W/TIMER SWITCH	0.90	195W LED 120V	8'-6" MIN	FIELD DRILL PER HOLOPHANE FIXTURE NOTES & DETAILS	4	
* TYPE #2	HOLOPHANE LIGHTING PETROLUX LED PLED2 08L 4K 12 UN NA GL5 8P	STANDARD DOWNLIGHT "LED" W/BUTTON PHOTOCELL & OCCUPANCY SENSOR	0.90	74W LED 120V	8'-6" MIN	FIELD DRILL PER HOLOPHANE FIXTURE NOTES & DETAILS	12	
TYPE #3	HOLOPHANE LIGHTING PSELED PK2 WBLT WFL 40K x GYSPD 10KMP NR 05 43	STANDARD FLOODLIGHT "LED" W/ LOCALLY TIMER SWITCH	0.90	81W LED 120-277V	13'-8" FIELD ADJ. TILT	FIELD DRILL PER HOLOPHANE FIXTURE NOTES & DETAILS	2	SEE FIXTURE NOTE BELOW
TYPE #3A	HOLOPHANE LIGHTING PSELED PK2 WBLT WFL 40K x GYSPD 10KMP NR 05 43	STANDARD FLOODLIGHT "LED" W/ BUTTON PHOTOCELL INCL. SENSOR SWITCH	0.90	81W LED 120-277V	13'-8" FIELD ADJ. TILT	FIELD DRILL PER HOLOPHANE FIXTURE NOTES & DETAILS	4	SEE FIXTURE NOTE BELOW & CONST. NOTE #5
TYPE #5	WALLPACK LED W4PLED 20C 700 50K 12M 120 PE GYSPD	STANDARD DOWNLIGHT "LED" W/BUTTON PHOTOCELL & OCCUPANCY SENSOR	0.90	45W LED 120-277V	7'-10" MIN	FIELD DRILL PER HOLOPHANE FIXTURE NOTES & DETAILS	20	

FIXTURE NOTES:  
1.-x = DENOTES LUMINAIRE MOUNTING METHOD TO BE SELECTED BASE ON THE APPLICATIONS.  
EXAMPLE:  
A. IF WALL MOUNTED = USE YOKE MOUNTING FRAME  
B. IF SET ON SINGLE MONOPOLE = USE TENON SLIPFITTER.



SYSTEM CODE: Z140/Z120  
AREA ELEV: 64ZZ

**GENERAL NOTES**  
USE PRINTS OF LATEST REVISION ONLY.  
DO NOT SCALE - USE DIMENSIONS ONLY.  
FOR LIST OF REFERENCE DRAWINGS SEE DRAWING NO THIS DRAWING.....  
THIS DRAWING SUPERSEDES ..... NONE  
THIS DRAWING IS SHEET NO. 1 OF 1 SHEETS.

**REVISION**

NO	DATE	DESCRIPTION	BY	CHKD	EXTD	APD
2	06/07/20	UPGRADED THE EXISTING 6KV STATION WITH 7 BKR RING BUS	ZSR	MDP		
1	3/3/19	REV. LEGEND. ADDED FOR TO SL485 & EXTENDED FOR FIXTURES	MDP	GJS		
0						

DATE: 07/28/20  
AUTH: E-65731  
APPROVED: Y.J. YAWORSKY/RJS

**EUGENE R. PORZIO**  
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PROJ. No. 13739-103

**ARRANGEMENT ELECTRICAL**

**LAWNSIDE SUBSTATION  
ULTIMATE LIGHTING DISTRIBUTION PLAN**

**PSEG**

**PUBLIC SERVICE ELECTRIC AND GAS COMPANY**  
ENGINEERING AND CONSTRUCTION DEPARTMENT NEWARK, N.J.

DRAWN: G.MATCHEK CHECKED: B.ROBINSON SCALE: 1"=20'-0"  
DATE: 07/28/20 EXAMINED: G.J.SCHNEIDER  
AUTH: E-65731 APPROVED: Y.J. YAWORSKY/RJS

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