

**TOWN-SPECIFIC NOTE**  
 1. THE OWNER SHALL REDUCE THE INTENSITY OF ILLUMINATION AFTER 10:00 PM TO THE MINIMUM NEEDED FOR SECURITY PURPOSES.

**THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY**

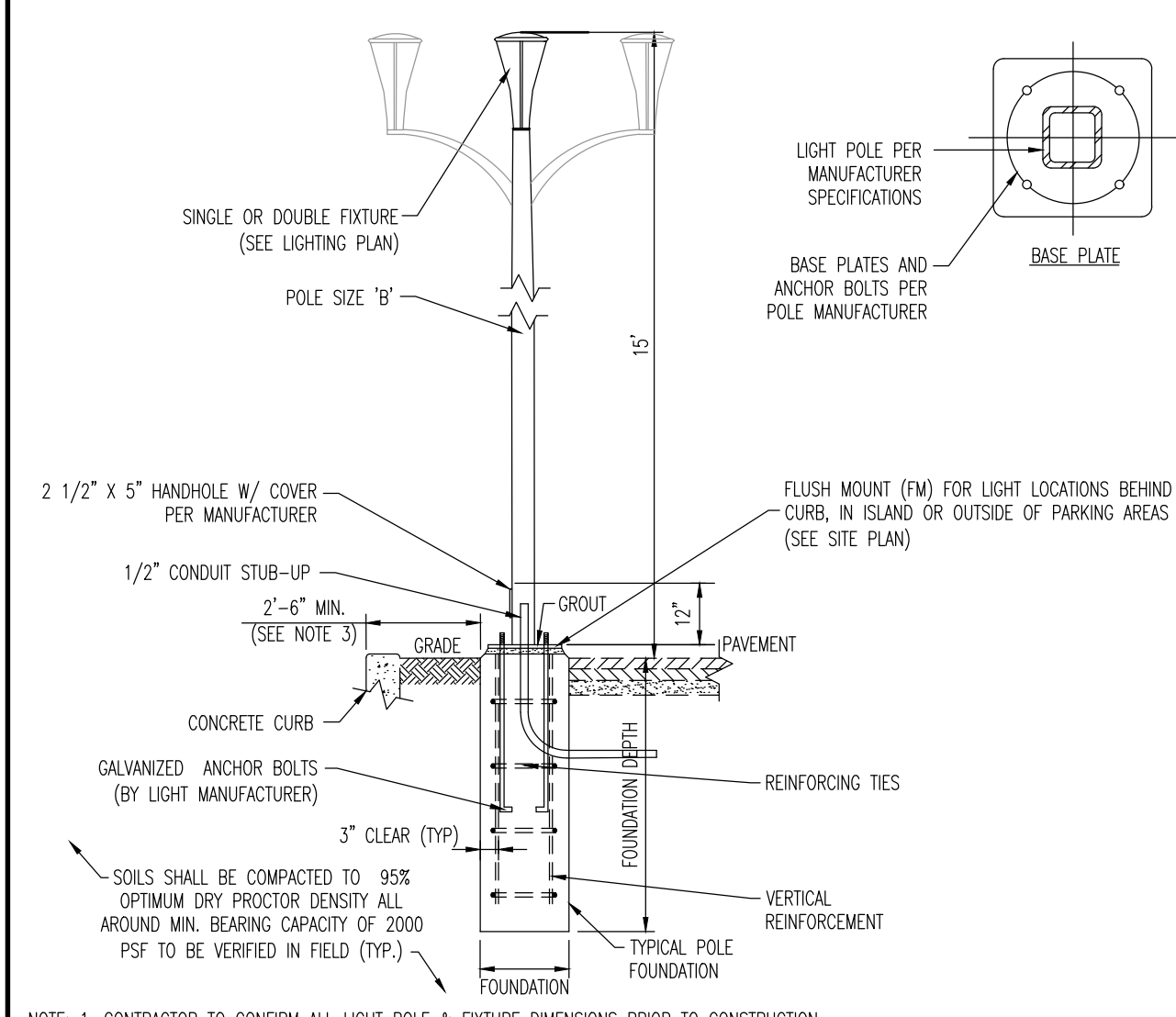
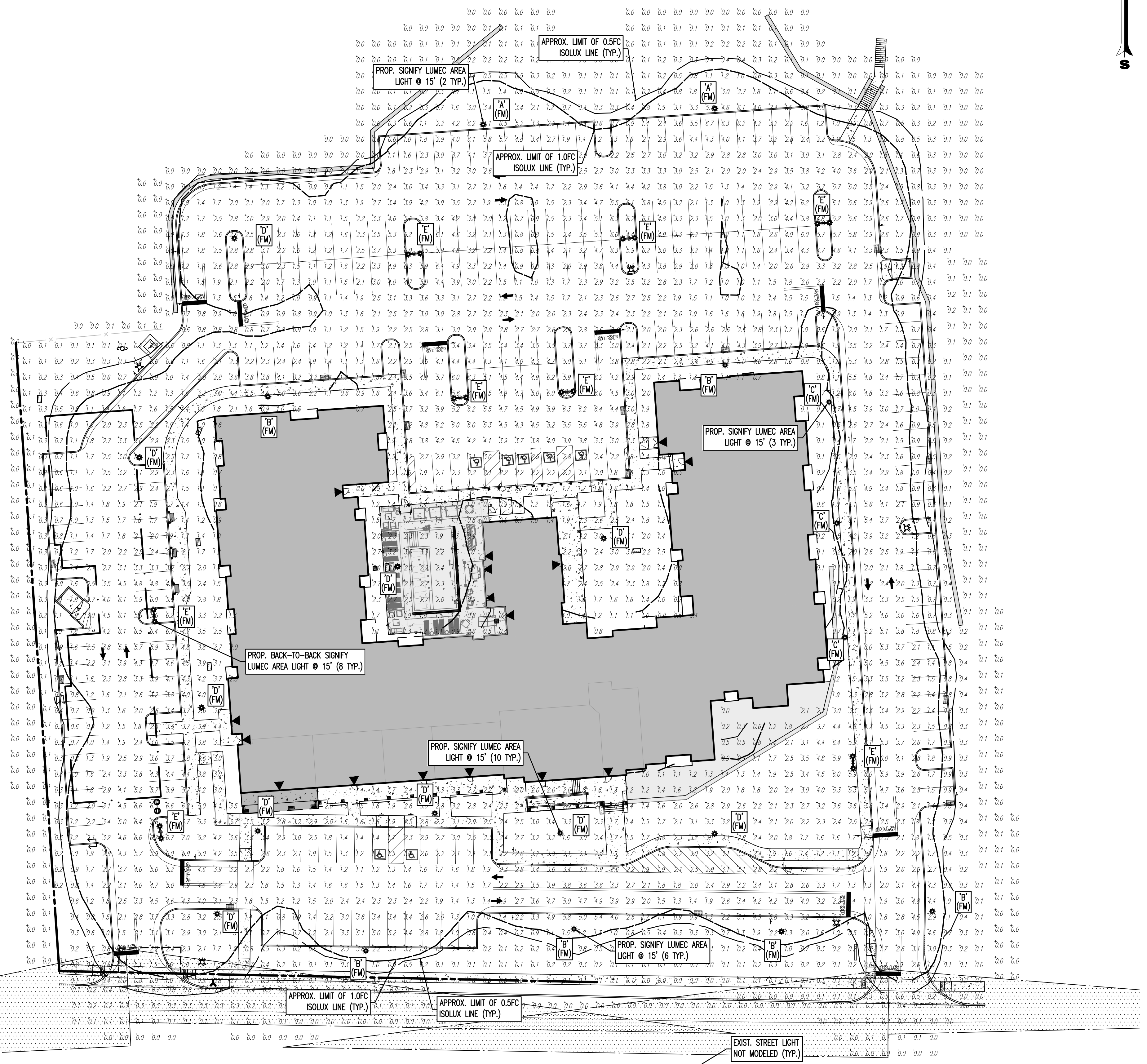
**SEE SHEET 18 OF 22 FOR LIGHTING DETAILS**

**GENERAL NOTES**

- THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.
- CONDUITS SHALL BE INSTALLED A MINIMUM OF 2 FEET BEHIND GUYDRAVE POSTS.
- ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.
- REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING DIAGRAM.

**LIGHTING REQUIREMENTS: (OLD HIGHWAY REDEVELOPMENT PLAN)**

- [ORHP-6.4.1] MAX. MOUNTING HEIGHT: 15' PERMITTED, 15' PROPOSED (COMPLIES)
- [ORHP-6.4.2] ALL LIGHTS SHALL BE SHIELDED TO RESTRICT THE MAX. APEX ANGLE OF THE CONE OF ILLUMINATION TO 150°. (COMPLIES)
- [ORHP-6.4.3] MIN. ILLUMINATION LEVEL: 0.5 FC REQUIRED, 0.5 FC PROPOSED (COMPLIES)
- [ORHP-6.4.4] MIN. AVERAGE ILLUMINATION LEVEL: 1.0 FC REQUIRED, 2.7 FC PROPOSED (COMPLIES)
- [ORHP-6.4.5] UNIFORMITY RATIO: AN AVERAGE TO MIN. OF 5:1 AND A MAX. TO MIN. OF 20:1 SHALL BE MAINTAINED. 13.4 PROPOSED (COMPLIES)
- [ORHP-6.4.6] MAX. ILLUMINATION LEVEL ALONG PROPERTY LINE: 0.3 FC REQUIRED, 0.3 FC PROPOSED (COMPLIES)
- [ORHP-6.4.7] MAX. ILLUMINATION LEVEL ALONG RESIDENTIAL PROPERTY LINE: 0.1 FC REQUIRED, 0.1 FC PROPOSED (COMPLIES)
- [ORHP-6.4.8] FOR EACH FIXTURE AND LIGHTED SIGN, THE TOTAL QUANTITY OF LIGHT RADIATED ABOVE A HORIZONTAL PLANE PASSING THROUGH THE LIGHT SOURCE SHALL NOT EXCEED 7 1/2% OF THE TOTAL QUANTITY OF LIGHT EMITTED FROM THE LIGHT SOURCE. (COMPLIES)



- NOTE:**
- CONTRACTOR TO CONFIRM ALL LIGHT POLE & FIXTURE DIMENSIONS PRIOR TO CONSTRUCTION.
  - PROPOSED POLE IN COMBINATION WITH CONCRETE PEDESTAL TO EQUAL MOUNTING HEIGHT 'A'. ACTUAL POLE HEIGHT TO BE ADJUSTED ACCORDINGLY.
  - PROPOSED CONCRETE FOUNDATION AND POLE TO BE CONSTRUCTED WITHIN SUBJECT PROPERTY UNLESS OTHERWISE NOTED. SETBACK FROM CURB IS PREFERRED BUT TO BE ADJUSTED AS NEEDED TO PREVENT ENCRoACHMENT OVER PROPERTY LINE.
  - BASE PLATE & ANCHOR BOLTS PER POLE MANUFACTURER. LARGER FOOTING DIAMETER AND/OR ALTERNATE ARRANGEMENT OF REINFORCING STEEL MAY BE REQUIRED TO ACCOMMODATE ANCHOR BOLT CONFIGURATION. CONTRACTOR RESPONSIBLE TO COORDINATE DIMENSIONAL REQUIREMENTS FOR BASE PLATE, ANCHOR BOLTS & REINFORCING STEEL PRIOR TO CONSTRUCTION.

LIGHT POLE FOUNDATION SCHEDULE			
MOUNTING HEIGHT ABOVE GRADE 'A'	15'		
POLE DIA. 'B'	6" SQUARE (OR PER MANUFACTURER)		
# OF FIXTURES	SINGLE OR DOUBLE		

**SOIL NOTES**

- FOOTING DESIGN BASED ON ASSUMED MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST.
- SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.

- CONCRETE NOTES**
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.
  - ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" WITHIN A TOLERANCE OF 1".
  - ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.
  - REINFORCING FRAMEWORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.

**DECORATIVE LIGHT DETAIL**  
 NOT TO SCALE

**LUMINAIRE SCHEDULE**

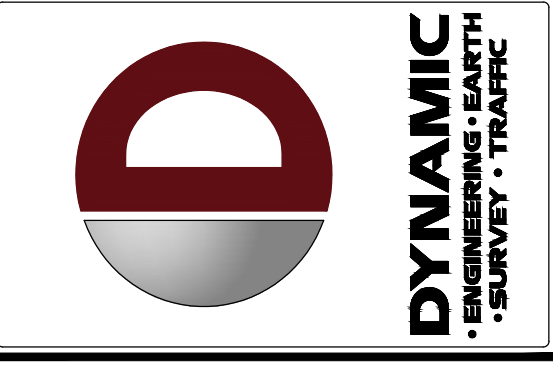
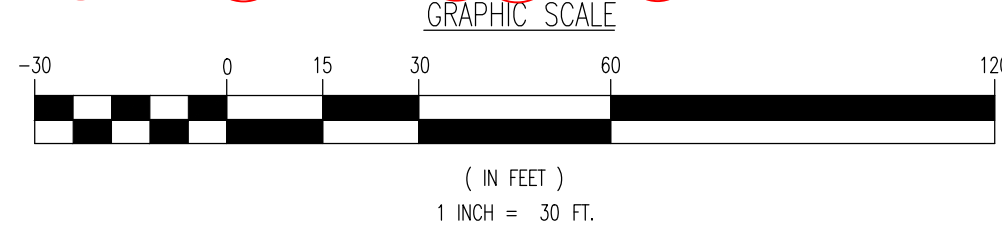
SYMBOL	QUANTITY	LABEL	MOUNTING HEIGHT	ARRANGEMENT	LLF	MANUFACTURER	DESCRIPTION	LUM. WATTS	LUM. LUMENS
⊛	2	A	15'	SINGLE	1.0	SIGNIFY LUMEC	MPTC-10B4LED3K-G3-LE3W	102	10959
⊛	6	B	15'	SINGLE	1.0	SIGNIFY LUMEC	MPTC-10B4LED3K-G3-LE3W-HS	102	7075
⊛	3	C	15'	SINGLE	1.0	SIGNIFY LUMEC	MPTC-10B4LED3K-G3-LE4-HS	102	7727
⊛	10	D	15'	SINGLE	1.0	SIGNIFY LUMEC	MPTC-10B4LED3K-G3-LE5	102	11115
⊛	8	E	15'	DOUBLE	1.0	SIGNIFY LUMEC	MPTC-10B4LED3K-G3-LE5	204	22230

ISO CURVES ARE MAINTAINED AND SHOWN AT 0.5 AND 0.1 FC.  
 (FM) - FLUSH MOUNT FOUNDATION  
 THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE, DIRT DEPRECIATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS. UNLESS OTHERWISE STATED, ALL RESULTS ARE MAINTAINED VALUES, UTILIZING ACCEPTED LIGHT LOSS FACTORS (LLF).  
 VALUES DO NOT INCLUDE CONTRIBUTION FROM ADJACENT PROPERTIES OR DECORATIVE LIGHTING AT BUILDING ENTRANCES AND WITHIN COURTYARD AREAS NOT SHOWN.  
 FOOTCANDLE VALUES DO NOT INCLUDE OBSTRUCTIONS FROM TREES, SHRUBS, LANDSCAPING, VEHICLES, OR FENCING.

**STATISTICAL AREA SUMMARY**

LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PROPERTY LINE	ILLUMINATION	Fc	0.1	0.3	0	N/A	N/A
PARKING AREAS	ILLUMINATION	Fc	2.7	6.7	0.5	5.4	13.4

ILLUMINATION LEVELS ABOVE DO NOT INCLUDE EXISTING STREET LIGHTS TO REMAIN.



REV.	DATE	DESCRIPTION
1	09/22/20	ISSUED FOR PERMITTING PURPOSES
2	07/12/21	REVISED PER CLIENT COMMENTS
3	07/12/21	REVISED PER CLIENT COMMENTS
4	07/12/21	REVISED PER CLIENT COMMENTS
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100	07/12/21	REVISED PER CLIENT COMMENTS

**THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION**

DESIGNED BY: JTG  
 CHECKED BY: JWC  
 DRAWN BY: JTG  
 PROJECT: OLD 22 URBAN RENEWAL ASSOCIATES, LLC  
 PROPOSED MIXED-USE DEVELOPMENT  
 BLOCK 21, LOTS 29, 30.01, & 31-33  
 49 NUSH ROUTE 173 (OLD HIGHWAY 22)  
 TOWN OF CLINTON, HUNTERDON COUNTY, NEW JERSEY

**811**  
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**BRETT W. SKAPINETZ**  
 PROFESSIONAL ENGINEER  
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**STEPHEN L. SCHWARTZ**  
 PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE NO. 48126

TITLE:  
**LIGHTING PLAN**

SCALE: (H) 1" = 30'  
 (V) 1" = 30'  
 DATE: 06/13/2020  
 PROJECT NO.: 2362-99-007

SHEET NO.: **12**  
 REV. #:  
 OF 22