SITE LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER/MODEL #	LAMPS NO	LAMPS TYPE	LAMPS VOLT	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
SL1	EATON (MCGRAW-EDISON) GLEON-AF-05-LED-480-T4W-BZ MOUNT: 1 HEAD (STANDARD ARM) POLE: REFER TO DESCRIPTION, NOTES AND SPECIFICATIONS	-	LED 70 CRI, 4000K 19,912 LUMENS 50,000+ HRS	480	162	182	SINGLE HEAD POLE MOUNTED LED PARKING LOT FIXTURE WITH A FULL CUTOFF FLAT LENS, TYPE 4 WIDE DISTRIBUTION, LISTED FOR WET LOCATIONS WITH FACTORY BRONZE COLOR. 20'-0" TALL, ROUND TAPERED STEEL OR ALUMINUM POLE WITH BASE COVER AND DRILL MOUNTINGS FOR LUMINAIRE CONFIGURATION INDICATED. POLE THICKNESS/GAUGE AS REQUIRED TO MEET COMPLETE LUMINAIRE/POLE ASSEMBLY REQUIREMENTS FOR LOCAL SITE CONDITIONS. FACTORY FINISH TO MATCH FIXTURE HEAD. SUITABLE FOR MOUNTING TO A CONCRETE BASE.	
SL2	EATON (MCGRAW-EDISON) GLEON-AF-05-LED-480-T4W-BZ MOUNT: 2 HEADS @ 180 DEGREES (STANDARD ARM) POLE: REFER TO DESCRIPTION, NOTES AND SPECIFICATIONS	-	LED 70 CRI, 4000K 19,912 LUMENS 50,000+ HRS	480	324	364	180 DEGREE DOUBLE HEAD POLE MOUNTED LED PARKING LOT FIXTURE WITH A FULL CUTOFF FLAT LENS, TYPE 4 WIDE DISTRIBUTION, LISTED FOR WET LOCATIONS WITH FACTORY BRONZE COLOR. 20'-0" TALL, ROUND TAPERED STEEL OR ALUMINUM POLE WITH BASE COVER AND DRILL MOUNTINGS FOR LUMINAIRE CONFIGURATION INDICATED. POLE THICKNESS/GAUGE AS REQUIRED TO MEET COMPLETE LUMINAIRE/POLE ASSEMBLY REQUIREMENTS FOR LOCAL SITE CONDITIONS. FACTORY FINISH TO MATCH FIXTURE HEAD. SUITABLE FOR MOUNTING TO A CONCRETE BASE.	
SL3	EATON (MCGRAW-EDISON) GLEON-AF-05-LED-480-T4W-BZ-EA MOUNT: 3 HEADS @ 90 DEGREES (10" EXTENDED ARM) POLE: REFER TO DESCRIPTION, NOTES AND SPECIFICATIONS	-	LED 70 CRI, 4000K 19,912 LUMENS 50,000+ HRS	480	486	546	90 DEGREE TRIPLE HEAD POLE MOUNTED LED PARKING LOT FIXTURE WITH A FULL CUTOFF FLAT LENS, TYPE 4 WIDE DISTRIBUTION, LISTED FOR WET LOCATIONS WITH FACTORY BRONZE COLOR. 20'-0" TALL, ROUND TAPERED STEEL OR ALUMINUM POLE WITH BASE COVER AND DRILL MOUNTINGS FOR LUMINAIRE CONFIGURATION INDICATED. POLE THICKNESS/GAUGE AS REQUIRED TO MEET COMPLETE LUMINAIRE/POLE ASSEMBLY REQUIREMENTS FOR LOCAL SITE CONDITIONS. FACTORY FINISH TO MATCH FIXTURE HEAD. SUITABLE FOR MOUNTING TO A CONCRETE BASE.	

GENERAL NOTES:

A. ALL SITE LIGHTING FIXTURES, POLES AND POLE BASES SHALL BE PROVIDED BY THE BUILDING CONTRACTOR AND SPECIFIED AS PART OF THE BUILDING CONSTRUCTION DOCUMENTS. THE INFORMATION SHOWN IN THIS SCHEDULE IS FOR REFERENCE ONLY AND AS SHOWN TO SUPPLEMENT THE SITE LIGHTING PHOTOMETRIC CALCULATIONS.
B. EQUIVALENT NRTL LISTED LIGHT FIXTURES MAY BE ACCEPTABLE FOR SUBSTITUTION PENDING OWNER, TENANT AND ENGINEER APPROVAL.
C. ALL LAMPS/LEDS SHALL BE PROVIDED AS CLOSE AS POSSIBLE TO THE COLOR TEMPERATURE SCHEDULED ABOVE UNLESS OTHERWISE APPROVED BY OWNER, TENANT AND ENGINEER.
D. THE QUANTITY AND MAXIMUM RATED WATTAGE OF THE LIGHT FIXTURES SPECIFIED ARE DESIGNED TO COMPLY WITH LOCAL ENERGY CODE AND SHALL NOT BE INCREASED WITHOUT APPROVAL OF ENGINEER.
E. THE SITE LIGHTING POLES SHALL MEET THE FOLLOWING MINIMUM STANDARD: THE COMPLETE LIGHTING STANDARD AND FOOTING SHALL BE DESIGNED TO WITHSTAND 100MPH WINDS WITH A 1.3 MPH GUST FACTOR. THE POLES MUST BE HIGH STRENGTH STEEL OR ALUMINUM AND SHALL BE NON-BREAKAWAY TYPE. EACH STANDARD SHALL BE PROTECTED AGAINST LIGHTNING WITH AN INTERCONNECTED GROUND ROD AND BONDED PER THE NEC AND LOCAL REQUIREMENTS. POLE HEIGHTS SHALL BE FACTORY PROVIDED TO THE LENGTH LISTED IN THE ABOVE DESCRIPTION TO ACHIEVE DESIRED HEAD MOUNTING HEIGHT.
F. ALL POLES SHALL BE FACTORY FURNISHED WITH VIBRATION DAMPENERS, UNO.

NOTES:

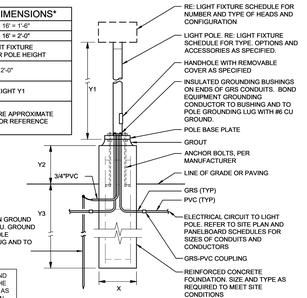
1. NOT USED.

POLE FOUNDATION SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE AND SUBMITTED AS PART OF THE SUBMITTAL PROCESS.

TABLE OF DIMENSIONS*

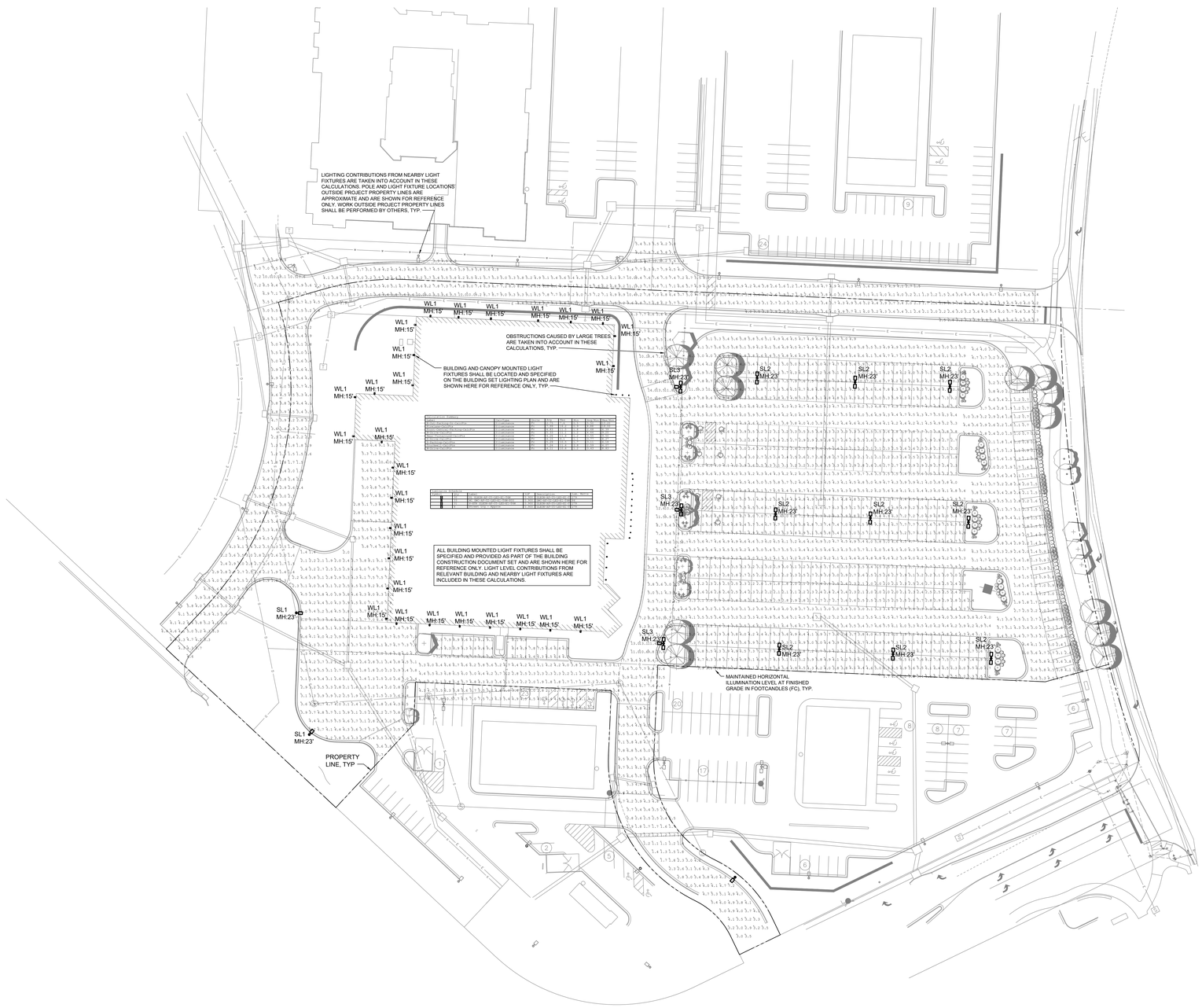
X	POLE HEIGHT < 16' = 1'-6"
	POLE HEIGHT > 16' = 2'-0"
Y1	REFER TO LIGHT FIXTURE SCHEDULE FOR POLE HEIGHT
Y2	BASE HEIGHT - 2'-0"
Y3	1/4 OF POLE HEIGHT Y1

* NOTE: ALL DIMENSIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY.



ALL SITE LIGHTING FIXTURES, POLES AND POLE BASES SHALL BE PROVIDED BY THE BUILDING CONTRACTOR AND SPECIFIED AS PART OF THE BUILDING CONSTRUCTION DOCUMENTS. THE INFORMATION SHOWN ON THIS DETAIL IS FOR REFERENCE ONLY AND AS SHOWN TO SUPPLEMENT THE SITE LIGHTING PHOTOMETRIC CALCULATIONS.

2 POLE BASE DETAIL
NOT TO SCALE



1 SITE LIGHTING PHOTOMETRIC PLAN
SCALE: 1"=40'-0"

SITE LIGHTING GENERAL NOTES:

1. REFER TO BUILDING CONSTRUCTION DOCUMENTS FOR LIGHT FIXTURE AND POLE TYPES, CIRCUITING AND RELATED INFORMATION. COORDINATE THE EXACT LOCATION OF ALL SITE LIGHTING POLES WITH OTHER TRADES PRIOR TO INSTALLATION.
2. THE SITE LIGHTING IS DESIGNED TO MEET THE FOLLOWING CRITERIA EXCEPT WHERE LIMITED BY SITE CONSTRAINTS, LANDSCAPING AND LOCAL REQUIREMENTS:
   - 2.1. MINIMUM MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE OF 3 FC AT ALL PAVED PARKING AND WALKING SURFACES.
   - 2.2. AVG MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE OF 8 FC AT FRONT FIRELANE.
   - 2.3. AVG MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE OF 7 FC AT TRUCKWELL.
   - 2.4. AVG MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE OF 5 FC AT MAIN PARKING AREAS.
   - 2.5. AVG MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE OF 3 FC AT OTHER PAVED AREAS AND DRIVE AISLES.
   - 2.6. MAX/MIN RATIO FOR EACH AREA SHALL BE LESS THAN 20:1.
   - 2.7. THE TOTAL LIGHT LOSS FACTOR USED FOR THE CALCULATIONS SHALL BE .9 OF INITIAL LUMEN OUTPUT FOR LED SOURCES, UNO.

HENDERSON ENGINEERS
5345 E. KENSINGTON, SUITE 300
WICHITA, KS 67114
TEL 913.829.0014 FAX 913.829.2001
WWW.HENDERSONENGINEERS.COM
MO. CORPORATE NUMBER: E-5455
EXPIRES 12/31/20

DEAN W. CHANDLER
LICENSE # PE-2017039652

NOTE:
ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS IN THE SET PRIOR TO PLACING BID.

Preliminary Set (not for construction)

A New Store for:
McKeever's Market & Eatery #950

NW Pryor Road
Lee's Summit, Missouri

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105 W Kansas, Suite C
Liberty, Missouri 64068
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REVISIONS:

SITE LIGHTING PHOTOMETRIC PLAN

PROJECT: 1-4321
DATE: APRIL 30, 2019

SHEET NUMBER: E1.3

DEAN W. CHANDLER