

ELECTRICAL LEGEND

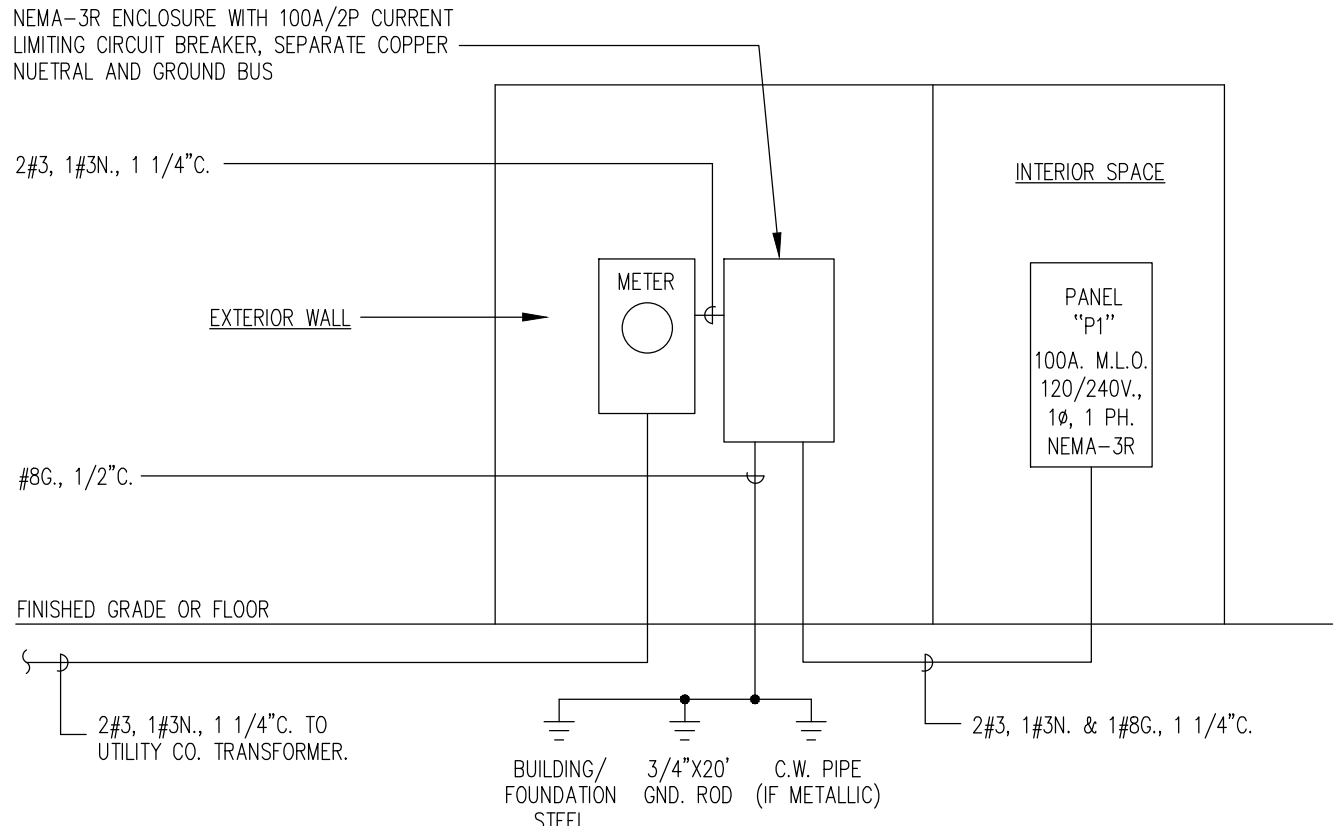
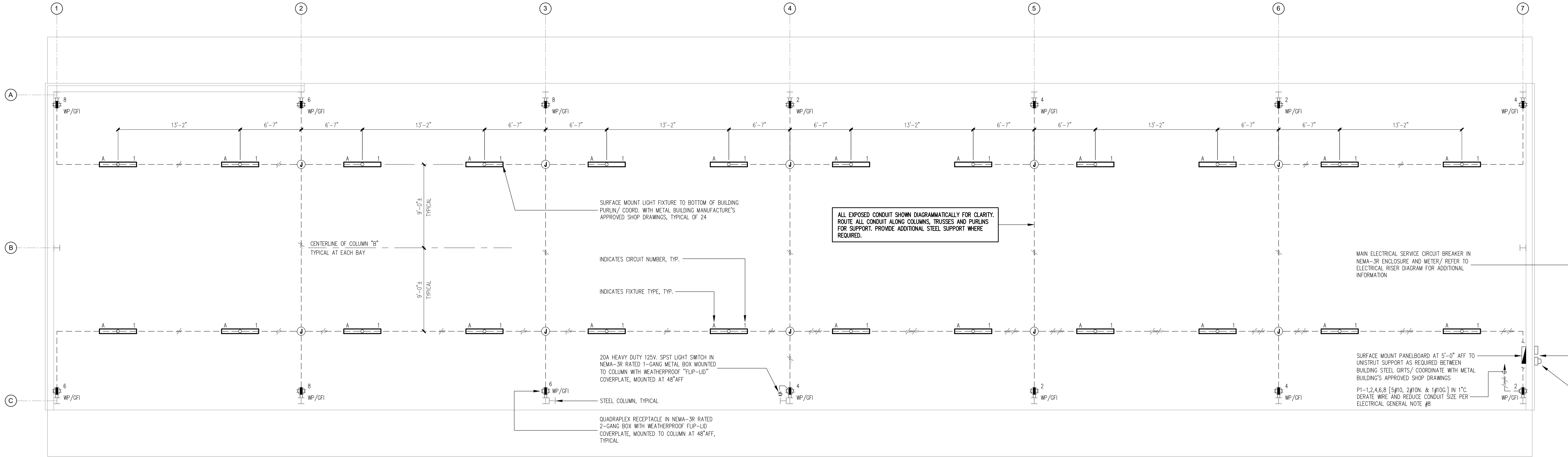
	L.E.D. SURFACE MOUNTED LIGHT FIXTURE
	125V 20A SINGLE POLE SINGLE THROW HEAVY DUTY TOGGLE SWITCH
	125V 20A QUADRAPLEX RECEPTACLE - MOUNTED 48" AFF; WP - WEATHER-PROOF, GFI - GROUND FAULT INTERRUPTER
	EXPOSED CONDUIT - SECURED TO BUILDING STEEL
	TIC MARKS INDICATES NUMBER OF CONDUCTORS, LONG - INDICATE NEUTRAL, SHORT - INDICATES HOT AND/ OR SWITCHED, PROVIDE GREEN GROUND CONDUCTOR IN ALL CONDUIT.
	100A 120/240V, 1Ø, 3W, SURFACE MOUNTED NEMA-3R PANELBOARD, REFER TO SCHEDULE FOR DETAILS

LIGHT FIXTURE SCHEDULE

DESIGN.	DESCRIPTION
A	48"L SURFACE MOUNTED ENCLOSED L.E.D. LIGHT FIXTURE WITH WEATHER RESISTANCE FIBERGLASS FULLY GASKETED OUTER HOUSING AND .050 ALUMINUM INTERNAL HOUSING, CLEAR IMPACT RESISTANT ACRYLIC SHIELDING, 6,100 LUMEN/ 4000K LED PACKAGE, 120V, UNIVERSAL VOLTAGE DRIVER, WIDE THROW OPTICS, STAINLESS STEEL LATCHES, U.L. RATED FOR WET LOCATION; WILLIAMS 97-4-L61/840-A-UNV

ELECTRICAL GENERAL NOTES

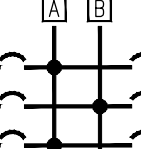
- 1.) INSTALLATION SHALL BE PERFORMED BY A LICENSED FLORIDA ELECTRICAL. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL NECESSARY PERMITS, LICENSES, UTILITY COORDINATION, AND INSPECTIONS AS REQUIRED BY THE CITY, COUNTY, OR UTILITY COMPANY. OWNER WILL PAY FEES. CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT REQUIRED BY UTILITY COMPANY AND SHOULD INCLUDE NECESSARY COSTS IN BID.
- 2.) ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE AND PROPER ELECTRICAL DESIGN, LOADING AND INSTALLATION OF ELECTRICAL SYSTEMS.
- 3.) ELECTRICAL CONTRACTOR SHALL FURNISH CONNECTED AND DEMAND LOADING CALCULATIONS FOR FINAL EQUIPMENT SELECTIONS.
- 4.) ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AS ENFORCED BY THE AUTHORITIES HAVING JURISDICTION, INCLUDING (BUT NOT LIMITED TO) 2020 NFPA 70, NATIONAL ELECTRICAL CODE.
- 5.) REFER TO ELECTRICAL RISER DIAGRAM FOR FEEDER AND PANELBOARD SIZES.
- 6.) SERVICE FEEDERS AND FEEDERS TO ELECTRICAL PANELS SHALL BE COPPER WITH 75°C THWN INSULATED. ALL OTHER BRANCH WIRING SHALL BE COPPER WITH 75°C THWN INSULATED ROMEX UNLESS OTHERWISE NOTED. #14 CU. AWG MIN. SIZE WIRE FOR LIGHTING AND NON-APPLIANCE CIRCUITS.
- 7.) ALL WORK SHALL BE COORDINATED WITH METAL BUILDING APPROVED SHOP DRAWINGS IN ORDER TO BE AWARE OF CONDITIONS AFFECTING ELECTRICAL WORK.
- 8.) CALCULATE WIRE SIZE USING 3% VOLTAGE DROP, MAKE NECESSARY ADJUSTMENTS TO WIRE AND CONDUIT AS REQUIRED PRIOR TO BID.
- 9.) RACEWAYS, ENCLOSURES, BOXES, ETC. SHALL BE KEPT PROTECTED AGAINST ENTRY OF CONSTRUCTION DEBRIS. RE-COVER ALL BOXES AFTER WIRE PULLS TO PROTECT FROM PAINT OVERSPRAY. DO NOT INSTALL DEVICES UNTIL PAINTING OF WALLS IS COMPLETED.
- 10.) COORDINATE LOCATION OF SURFACE MOUNTED LIGHT FIXTURES WITH FINAL PURLIN LOCATIONS; ADJUST FIXTURE LOCATIONS AS NECESSARY, KEEPING TO DESIGN INTENT AND MAINTAINING A UNIFORM PATTERN. ALL FIXTURES SHALL BE PROPERLY AND CAREFULLY SUPPORTED AND ALIGNED. PROVIDED ADDITIONAL STEEL BLOCKING/SUPPORT FOR FIXTURES AS REQUIRED.
- 11.) LIGHTING FIXTURES SHALL BE CLEAN FREE OF SMUDGES OR FINGERPRINTS AT THE TIME OF FINAL INSPECTION.
- 12.) ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ELECTRICAL SERVICE WITH LOCAL ELECTRIC UTILITY COMPANY PRIOR TO ROUGH-IN.
- 13.) PROVIDE EQUIPMENT GROUND CONDUCTOR TO ALL LIGHT FIXTURES AND WIRING DEVICES.
- 14.) ALL OUTLET BOXES SHALL BE RIGIDLY MOUNTED AND SHALL BE EQUIPPED WITH SUITABLE SCREW FASTENED COVERS. OPEN KNOCKOUTS OR HOLES IN BOXES SHALL BE PLUGGED WITH SUITABLE BLANKING DEVICE.
- 15.) ELECTRICAL CONTRACTED SHALL LEGIBLY IDENTIFY BRANCH CIRCUITS ON INSIDE OF COVERPLATES OF JUNCTION BOXES AND OUTLET BOXES WITH BLACK PERMANENT MARKER.



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

- NOTES:
1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH POWER COMPANY PRIOR TO ROUGH-IN.

PANEL "P1"				RATING: 100A, M.L.O.		LUG LOCATION: BOTTOM		SHORT CIRCUIT RATING: 10K			
SERVICE: 120/240V, 1ø, 3W.				MOUNTING: SURFACE							
LOAD DESCRIPTION		KVA	BKR	OKT		OKT	BKR	KVA	LOAD DESCRIPTION		
LIGHTING		1.2	20/1	1		2	20/1	1.6	RECEPTACLE		
SPACE		---	---	3		4	20/1	1.6	RECEPTACLE		
SPACE		---	---	5		6	20/1	1.2	RECEPTACLE		
SPACE		---	---	7		8	20/1	1.2	RECEPTACLE		
SPACE		---	---	9		10	20/1	---	SPARE		
SPACE		---	---	11		12	20/1	---	SPARE		
SERVICES		CONN. LOAD		DF		RATED LOAD		CONNECTED LOAD (KVA)		NOTES	
LIGHTING		1.2 KVA	1.0	1.2 KVA	A ø 4.0	1. SERVICE ENTRANCE LABEL 2. SQUARE D NODD PANELBOARD 3. COPPER NEUTRAL AND GROUND BUS 4. NEMA-3R ENCLOSURE					
RECEPT. - GENERAL		5.6 KVA	1.0	5.6 KVA							B ø 2.8
TOTAL		6.8 KVA		6.8 KVA							
SPARE			1.0	9.8 KVA							
MAIN RATING				16.6 KVA							

ELECTRICAL LOAD CALCULATIONS

LOAD DESCRIPTION	CONNECTED LOAD	DIVERSITY FACTOR	ESTIMATED CONNECTED LOAD
LIGHTING	1.2 KVA	1.0	1.2 KVA
RECEPTACLES - GENERAL	5.6 KVA	1.0	5.6 KVA
SUB-TOTAL	6.8 KVA		6.8 KVA
SPARE			9.8 KVA
TOTAL			16.6 KVA

USE 100A, 120/208V, 1 PHASE, 3 WIRE ELECTRICAL SERVICE

LIGHTING / POWER PLAN

SCALE: 3/16" = 1'-0"



NORTH COMPLEX TRAILER YARD SHED FOR:
CITY OF OCALA
SECTION 03, TOWNSHIP 15S, AND RANGE 22 E.
MARION COUNTY, FL.

07.8.24
1 REVISION

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