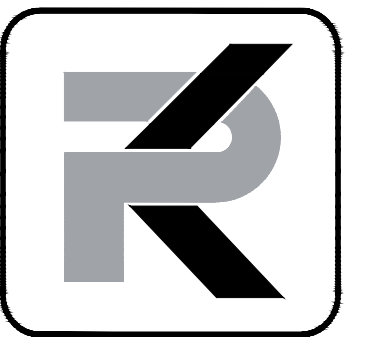


EXTERIOR QUAD LIGHTING STEWART FACILITY SPWD PROJECT No. 25-C21

1 Jacobsen Way
Carson City, NV 89701

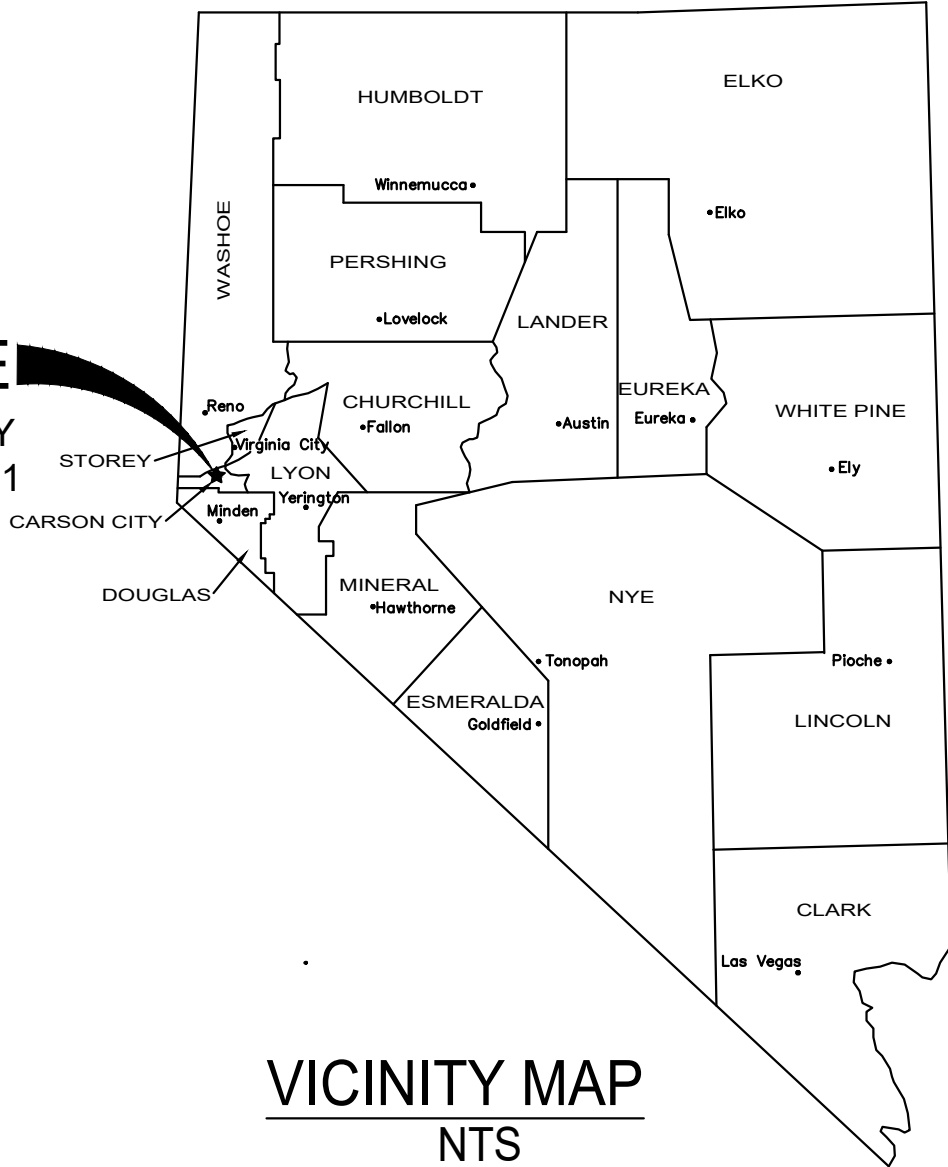


FEBRUARY 10, 2026



PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Dr., Ste B | Reno, NV 89511 | 775.826.9010
4601 DTC Blvd., Ste 740 | Denver, CO 80237 | 720.481.3290
8112 Maryland Ave., Ste 400 | Clayton, MO
pk-electrical.com | PKR24218

*Preliminary
Not For
Construction*

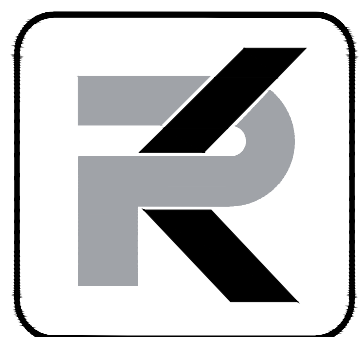
EXTERIOR QUAD LIGHTING
STEWART FACILITY
#23-C21
1 JACOBSEN WAY
CARSON CITY, NV 89701

SITE MAP	USING AGENCY	DRAWING SCHEDULE																											
<p>PROJECT SITE 1 JACOBSEN WAY CARSON CITY, NV 89701</p>  <p>VICINITY MAP NTS</p>	 <p>State of Nevada Public Works Department 680 W. Nye Lane, Suite 103 Carson City, NV 89703 Mikayla Miller, E.I. 775.430.0201 m.miller1@admin.nv.gov</p> <hr/> <p>CONSULTANT</p>  <p>PK Electrical, Inc. ENGINEERING DESIGN CONSULTING 681 Sierra Rose Dr., Ste B Reno, NV 89511 775.826.9010 4601 DTC Blvd., Ste 740 Denver, CO 80237 720.481.3290 8112 Maryland Ave., Ste 400 Clayton, MO pk-electrical.com PKR25203</p>	<table border="1"> <thead> <tr> <th>SHEET</th> <th>DESCRIPTION</th> <th></th> </tr> </thead> <tbody> <tr> <td>G001</td> <td>COVER SHEET</td> <td>••</td> </tr> <tr> <td>E001</td> <td>ELECTRICAL LEGEND</td> <td>•••</td> </tr> <tr> <td>E002</td> <td>ELECTRICAL SPECIFICATIONS</td> <td>••••</td> </tr> <tr> <td>E003</td> <td>PANEL SCHEDULES, FIXTURE SCHEDULE, & CALCULATIONS</td> <td>•••••</td> </tr> <tr> <td>E004</td> <td>DETAILS</td> <td>••••••</td> </tr> <tr> <td>E101</td> <td>ELECTRICAL SITE PLAN</td> <td>•••••••</td> </tr> <tr> <td>E102</td> <td>ELECTRICAL SITE PHOTOMETRIC PLAN</td> <td>••••••••</td> </tr> <tr> <td colspan="2">TOTAL SHEETS IN ISSUE:</td> <td>7</td> </tr> </tbody> </table> <p>APPLICABLE CODES AND REGULATIONS 2024 INTERNATIONAL BUILDING CODE 2023 NATIONAL ELECTRIC CODE 2024 INTERNATIONAL ENERGY CONSERVATION CODE NEVADA STATE PUBLIC WORKS DIVISION ADOPTED STANDARDS 10/01/2019</p> <hr/> <p>REVISIONS</p> <hr/> <p>SHEET TITLE COVER SHEET</p> <hr/> <p>DRAWN: _____ MLS CHECKED: _____ JEG DATE: 02/10/26 JOB NUMBER: 25203 PROJECT MGR: _____ MLS</p>	SHEET	DESCRIPTION		G001	COVER SHEET	••	E001	ELECTRICAL LEGEND	•••	E002	ELECTRICAL SPECIFICATIONS	••••	E003	PANEL SCHEDULES, FIXTURE SCHEDULE, & CALCULATIONS	•••••	E004	DETAILS	••••••	E101	ELECTRICAL SITE PLAN	•••••••	E102	ELECTRICAL SITE PHOTOMETRIC PLAN	••••••••	TOTAL SHEETS IN ISSUE:		7
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FEBRUARY 2026

G001





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ELECTRICAL LEGEND

<ul style="list-style-type: none"> PANELBOARD: SURFACE MOUNTED PANELBOARD: FLUSH MOUNTED SWITCHBOARD OR DISTRIBUTION PANEL TRANSFORMER PULLBOX / VAULT MOTOR STARTER COMBINATION MOTOR STARTER COMBINATION MOTOR STARTER PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIP SUPPLIER) DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE) DISCONNECT SWITCH - NON-FUSIBLE DISCONNECT SWITCH PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIP SUPPLIER) VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIP SUPPLIER) ENCLOSED CIRCUIT BREAKER GROUND ROD SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON REMOTE METER 	<ul style="list-style-type: none"> SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF DUPLEX RECEPTACLE: HALF SWITCHED, +18" AFF DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE), 20A, 125V, NEMA 5-20IG, +18" AFF COMBO DUAL USB CHARGER / DUPLEX RECEPTACLE, 5.1A, (1) TYPE A & (1) TYPE C USB (3.1, 3.0, 2.0 AND 1.1 COMPATIBLE), 20A, 125V, NEMA 5-20R, +18AFF QUAD USB CHARGER, 5.1A, (2) TYPE A & (2) TYPE C USB (3.1, 3.0, 2.0 AND 1.1 COMPATIBLE), +18AFF SPECIAL PURPOSE RECEPTACLE: SEE DWGS FOR NEMA CONFIGURATION DUPLEX RECEPTACLE: FLOOR MOUNTED QUAD RECEPTACLE: FLOOR MOUNTED DUPLEX RECEPTACLE: CEILING MOUNTED QUAD RECEPTACLE: CEILING MOUNTED BLANK GFCI PROTECTIVE DEVICE IN READILY ACCESSIBLE LOCATION (LABEL PROTECTED DEVICES) DUPLEX "CLOCK" RECEPTACLE: 125V, NEMA 5-20R, +60" AFF DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT MULTI-OUTLET ASSEMBLY: SPACING PER DWGS 	<ul style="list-style-type: none"> GROUND FAULT INTERRUPTER DEVICE METERING DEVICE REMOTE METER SHUNT TRIP DEVICE TRANSFORMER CURRENT TRANSFORMER GENERATOR MOTOR - # INDICATES HP INTERRUPTER SWITCH GROUND FAULT RELAY W/ CT OR SENSOR FUSE CIRCUIT BREAKER DRAWOUT CIRCUIT BREAKER TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4 SURGE PROTECTION DEVICE 	<ul style="list-style-type: none"> A AMPS ADA AMERICANS WITH DISABILITIES ACT AFC AVAILABLE FAULT CURRENT AFCI ARC-FAULT CIRCUIT INTERRUPTER AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AMP INTERRUPTING CAPACITY AIC AMP INTERRUPTING CAPACITY AL ALUMINUM ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BC BARE COPPER BKR BREAKER C CONDUIT/RACEWAY CEC CALIFORNIA ENERGY COMMISSION CIRCUIT CKT CIRCUIT CLG CEILING CO CONDUIT/RACEWAY ONLY CT CURRENT TRANSFORMER CU COPPER DB DISTRIBUTION BOARD DDC DIRECT DIGITAL CONTROLLER DPDT DOUBLE-POLE, DOUBLE-THROW DPST DOUBLE-POLE, SINGLE-THROW DWG DRAWING (E) EXISTING TO REMAIN ELEC ELECTRICAL EM EMERGENCY EMT ELECTRICAL METALLIC TUBING (F) FUTURE FLA FULL LOAD AMPS FMC FLEXIBLE METAL CONDUIT (STEEL) FPE FUSE PER EQUIP. NAMEPLATE GFI GROUND FAULT INTERRUPT GND GROUND HID HIGH INTENSITY DISCHARGE HOA HAND-OFF-AUTO SWITCH HP HORSEPOWER HSPK HOUSEKEEPING IMC INTERMEDIATE METAL CONDUIT J-BOX JUNCTION BOX K kcmil (300K = 300 kcmil) KVA KILOVOLT AMPS KW KILOWATT LTG LIGHTING IG ISOLATED GROUND MCB MAIN CIRCUIT BREAKER MCM THOUSAND CIRCULAR MILS MFG MANUFACTURER MLO MAIN LUGS ONLY MS MOTOR STARTER MSB MAIN SWITCHBOARD MTS MANUAL TRANSFER SWITCH NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NOT IN CONTRACT NL NIGHTLIGHT NO NORMALLY OPEN NTS NOT TO SCALE NVE NV ENERGY P POLE PHØ PHASE PV PHOTOVOLTAIC PNL PANEL PTC PV USA TEST CONDITIONS PWR POWER (R) RELOCATED/RELOCATED (RR) REMOVE AND REPLACE RAC RIGID ALUMINUM CONDUIT RFC RIGID FIBERGLASS CONDUIT RSC RIGID STEEL CONDUIT SE SERVICE ENTRANCE SPD SURGE PROTECTION DEVICE SPDT SINGLE-POLE, DOUBLE-THROW SPST SINGLE-POLE, SINGLE-THROW STC STANDARD TEST CONDITIONS SW SWITCH TE TELECOM TTB TELEPHONE TERMINATION BOARD TYP TYPICAL UL UNDERWRITER'S LABORATORY UNO UNLESS NOTED OTHERWISE UNSW UNINTERRUPTED POWER SUPPLY V VOLTS VA VOLT AMPS VFD VARIABLE FREQUENCY DRIVE W WATTS WP WEATHER PROOF (X) EXISTING TO BE REMOVED XFMR OR XF TRANSFORMER
<ul style="list-style-type: none"> S SINGLE POLE SWITCH 48" AFF S₃ THREE WAY SWITCH 48" AFF S₄ FOUR WAY SWITCH 48" AFF S_K KEY OPERATED SWITCH 48" S_L SWITCH WITH LIGHTED HANDLE S_M MANUAL MOTOR STARTER S_P SWITCH WITH PILOT LIGHT 48" AFF S_T TIME WALL SWITCH EQUAL TO HUBBELL DT2000W 48" AFF D DIMMER OPERATED SWITCH 48" AFF ◆ OCCUPANCY SENSOR - WALL MOUNTED 48" AFF ◆D 0-10V DIMMING OCCUPANCY SENSOR - WALL MOUNTED 48" AFF - EQUAL TO SENSOR SWITCH WSX-D ⊙ OCCUPANCY SENSOR - CEILING MOUNTED, PROVIDE WITH POWER PACK PER MFG REQUIREMENTS. ⊙S OCCUPANCY SENSOR - CORNER MOUNTED, PROVIDE WITH POWER PACK PER MFG REQUIREMENTS. □ CONTROL STATION □ CONTACTOR OR RELAY ⊙ PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO) ⊙ TIMECLOCK 	<ul style="list-style-type: none"> DATA / VOICE OUTLET: 18" AFF - 1 VOICE, 1 DATA JACK, 2 BLANKS DATA / VOICE OUTLET: FLOOR MOUNTED MULTI-OUTLET ASSEMBLY: SPACING PER DWGS TELEPHONE OUTLET: 18" AFF DATA OUTLET: 18" AFF DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT SPEAKER TELEVISION OUTLET: 18" AFF (UNO) TELEPHONE TERMINAL BOARD (TTB) VOLUME CONTROL GROUNDING BAR 	<ul style="list-style-type: none"> NORMALLY OPEN (NO) CONTACT NORMALLY CLOSED (NC) CONTACT COIL - VOLTAGE PER CONTROL DIAGRAMS PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW) PILOT LIGHT (LED) NON PUSH-TO-TEST THERMAL OVERLOAD MAGNETIC OVERLOAD PUSH BUTTON NORMALLY OPEN (NO) PUSH BUTTON NORMALLY CLOSED (NC) HAND-OFF-AUTO (HOA) SELECTOR SWITCH LIMIT SWITCH NORMALLY OPEN (NO) LIMIT SWITCH NORMALLY CLOSED (NC) PUSH BUTTON ILLUMINATED (LED) 	<ul style="list-style-type: none"> * FIXTURE SCHEDULE HAS PRECEDENCE * LENSED TROFFER VOLUMETRIC TROFFER FLANGED TROFFER SURFACE MOUNT TROFFER STRIP FIXTURE DOWNLIGHT WALL PACK POLE MOUNT EMERGENCY LIGHTING UNIT EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS INDICATE DIRECTION SHADING INDICATES EGRESS FIXTURE
<ul style="list-style-type: none"> CONDUIT/RACEWAY IN WALL OR ABOVE CEILING CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR BREAK OR RUN CONTINUES OVERHEAD SERVICE PRIMARY SECONDARY COMMUNICATIONS OR SIGNAL TELEPHONE TELEVISION LOW VOLTAGE AND/OR CONTROL WIRING EMERGENCY CIRCUIT CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE) CONDUIT/RACEWAY SLEEVE 	<ul style="list-style-type: none"> THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO) JUNCTION BOX (SIZE AS REQUIRED UNO) SHEET NOTE DESIGNATION FIXTURE DESIGNATION: F1=TYPE (SEE FIXTURE SCH.) REVISION DELTA: NUMBER REPRESENTS REVISION FEEDER DESIGNATION EQUIPMENT CONNECTION 	<ul style="list-style-type: none"> TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED. ISOLATED GROUNDING CONDUCTOR NEUTRAL CONDUCTOR PHASE CONDUCTOR(S) BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR HOMERUN TO PANELBOARD OR DEVICE HOMERUN CIRCUIT DESIGNATION GROUNDING CONDUCTOR NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS) PHASE CONDUCTOR(S) PANELBOARD DESIGNATION HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN) GROUNDING CONDUCTOR PHASE CONDUCTOR(S) PANELBOARD DESIGNATION 	<p>NOTE: "(E)" IN HOMERUN INDICATES NEW HOMERUN TO EXISTING PANEL</p>

BREAKERS: 20 = SINGLE POLE CIRCUIT BREAKER 20/2 = TWO POLE CIRCUIT BREAKER 20/3 = THREE POLE CIRCUIT BREAKER 20A = ARC FAULT CIRCUIT BREAKER 20C = CONTROLLABLE CIRCUIT BREAKER 20G = GFI CIRCUIT BREAKER

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO TOP OF BOX.

REVISIONS

SHEET TITLE
ELECTRICAL LEGEND

DRAWN: MLS
CHECKED: JEG
DATE: 02/10/26
JOB NUMBER: 25203
PROJECT MGR: MLS

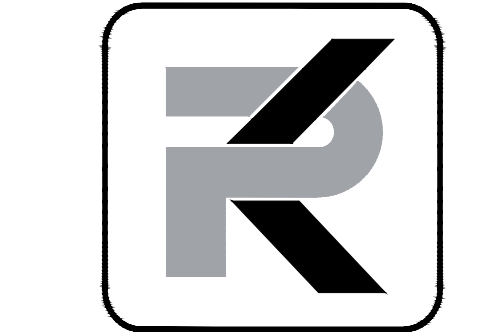
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FEBRUARY 2026

E001



PLEASE RECYCLE

SECTION 260000 ELECTRICAL SPECIFICATIONS							
ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION		
1.1	<p>PART 1 - GENERAL SUMMARY</p> <ul style="list-style-type: none"> THE WORK UNDER THIS DIVISION SHALL CONSIST OF ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND RELATED ACCESSORIES, ETC. NECESSARY AND REQUIRED TO COMPLETE ALL WORK AS SHOWN OR INFERRED ON THE DRAWINGS AND IN THE SPECIFICATIONS (CONTRACT DOCUMENTS). PROVIDE EXISTING ELECTRICAL EQUIPMENT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. PROVIDE EQUIPMENT AND/OR WIRING NORMALLY FURNISHED OR REQUIRED FOR COMPLETE ELECTRICAL SYSTEMS BUT NOT SPECIFICALLY FURNISHED ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS AS LONG AS SPECIFIED BY BOTH CONTRACTORS. ALL EQUIPMENT AND WIRING SHALL BE NEW, EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED OTHERWISE. 	1.9	<p>SUBSTITUTIONS</p> <p>PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER.</p>	3.1	<p>PART 3 - EXECUTION</p> <p>VISIT TO SITE</p> <p>VISIT SITE, AND SURVEY EXISTING CONDITIONS AFFECTING WORK PRIOR TO BID. INCLUDE NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK, INCLUDING RELOCATION OF EXISTING SERVICES AND UTILITIES ON BUILDING SITE IN BID. NO CONSIDERATION SHALL BE GIVEN TO FUTURE CLAIMS OR INTERFERENCES. ANY DISCREPANCIES OR INTERFERENCES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.</p>	3.11	<p>ELECTRICAL SYSTEM TESTING</p> <p>PRIOR TO PLACING IN SERVICES, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING FIRM DEEMED BY THE OWNER AS QUALIFIED TO PERFORM ELECTRICAL TESTING. TESTING PROCEDURES AND TESTING REQUIREMENTS SHALL BE PAID FOR AND COORDINATED BY THE CONTRACTOR. NETA TESTING PROCEDURES AND REQUIREMENTS FOR TESTED VALUES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE NETA ACCEPTANCE TESTING SPECIFICATIONS. ANY DEFICIENCIES OR FAILURES DISCOVERED DURING THE NETA TESTING PROCEDURES SHALL BE PROMPTLY CORRECTED BY THE ENSURE TIMELY COMPLETION OF THE PROJECT AND TO MINIMIZE THE TIME REQUIRED FOR THE INDEPENDENT TESTING FIRM TO COMPLETE THEIR WORK. TESTING REQUIREMENTS SHALL BE AS FOLLOWS:</p> <ul style="list-style-type: none"> GROUNDING SYSTEM GROUND FAULT PROTECTION CIRCUIT BREAKERS (OVER 100A) LOW VOLTAGE FEEDERS (UP TO 600 VOLTS) SERVING LOADS OF 100 AMPS OR GREATER MAIN SWITCHBOARD, DISTRIBUTION BOARDS, BRANCH CIRCUIT PANELS. LIGHTING CONTROL SYSTEMS FIRE ALARM SYSTEM
1.2	<p>RELATED WORK SPECIFIED ELSEWHERE</p> <p>COORDINATION. THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN AND INTERIOR DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 26 RESPONSIBILITIES. ELECTRICAL CONTRACTOR SHOULD NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA.</p>	1.10	<p>EXAMINATION OF SITE AND EXISTING CONDITIONS</p> <p>BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.</p>	3.2	<p>WORKMANSHIP</p> <ul style="list-style-type: none"> ALL WORK PERFORMED SHALL BE FIRST CLASS WORK IN EVERY ASPECT. THE WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN THEIR RESPECTIVE TRADES, WHO SHALL AT ALL TIMES BE UNDER THE SUPERVISION OF COMPETENT PERSONS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH NECA'S "STANDARD OF INSTALLATION." IN ADDITION TO THE MATERIALS SPECIFIED ELSEWHERE, FURNISH AND INSTALL ALL OTHER MISCELLANEOUS ITEMS NECESSARY FOR THE COMPLETION OF THE WORK TO THE EXTENT THAT ALL SYSTEMS ARE COMPLETE AND OPERATIVE. ALL WORK UNDER THIS SECTION SHALL BE PERFORMED IN COOPERATION WITH THE WORK PERFORMED UNDER ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR THE PROJECT IN ORDER TO AVOID INTERFERENCE WITH OTHER WORK AND TO SECURE THE PROPER INSTALLATION OF ALL WORK. REFER THE DRAWINGS AND SPECIFICATIONS COVERING THE WORK TO BE PERFORMED UNDER ALL SECTIONS, SO THAT THE RELATION AND EXTENT OF THE WORK OF THIS SECTION WITH RESPECT TO THE WORK OF ALL OTHER SECTIONS IS UNDERSTOOD, GIVE RIGHT OF WAY TO RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE. CONDUIT SYSTEMS MUST BE COMPLETE PRIOR TO INSTALLATION OF WIRING. 	3.12	<p>IDENTIFICATION</p> <ul style="list-style-type: none"> PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: <ul style="list-style-type: none"> DESIGNATION (I.E. PANEL A); FUNCTION (I.E. AIR HANDLER AH-1); VOLTAGE, PHASE, WIRE (I.E. 480 VOLT, 3 PHASE, 4W); FEEDER SIZE (I.E. 4-4#4 THWN CU IN 2" C); SOURCE (I.E. SWITCHBOARDS MSB). JUNCTION, PULL AND CONNECTION BOXES: IDENTIFICATION OF SYSTEMS AND CIRCUITS SHALL INDICATE SYSTEM VOLTAGE AND CONTAINED CIRCUITS ON OUTSIDE OF BOX COVER. USE SELF-ADHESIVE MARKING TAPE LABELS AT EXPOSED LOCATIONS AND FLUSH MOUNTED IN UNFINISHED AREAS. LABELING SHALL BE WITH ENGRAVED PLASTIC NAMEPLATE AS SPECIFIED HEREIN. WHERE BOXES ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, LABELING MAY BE NEAT HAND WRITTEN LETTERING WITH INDELEIBLE MARKER. DEVICE PLATES - SWITCHES AND RECEPTACLES: IDENTIFY THE PANELBOARD AND BRANCH CIRCUIT NUMBER FROM WHICH SERVED ON THE FRONT OF THE DEVICE PLATE WITH PERMANENT POLYESTER TAPE. LOCATE ALL LABELS AT THE BOTTOM OF THE PLATE IN THE SAME LOCATION THROUGHOUT. BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED IN EACH JUNCTION BOX AND PULL BOX WITH WIRE MARKERS AS MANUFACTURED BY T&B, PANDUIT, 3M, OR IDEAL TO INDICATE PANEL CIRCUIT NUMBER. JUNCTION BOX COVERS IN BRANCH CIRCUIT WIRING SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBERS. JUNCTION BOX COVERS FOR SPECIAL SYSTEMS SHALL BE LABELED WITH SYSTEM NAME AND OTHER IDENTIFICATION AS DIRECTED. FOR EXAMPLE, "FIRE ALARM-ZONE 1", WHERE BOXES ARE INSTALLED FLUSH MOUNTED IN FINISHED AREAS OR SURFACE MOUNTED IN UNFINISHED AREAS. LABELING SHALL BE WITH ENGRAVED PLASTIC NAMEPLATE AS SPECIFIED HEREIN. WHERE BOXES ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, LABELING MAY BE NEAT HAND WRITTEN LETTERING WITH INDELEIBLE MARKER. DEVICE PLATES - SWITCHES AND RECEPTACLES: IDENTIFY THE PANELBOARD AND BRANCH CIRCUIT NUMBER FROM WHICH SERVED ON THE FRONT OF THE DEVICE PLATE WITH PERMANENT POLYESTER TAPE. LOCATE ALL LABELS AT THE BOTTOM OF THE PLATE IN THE SAME LOCATION THROUGHOUT.
1.3	<p>ADOPTED CODES</p> <ul style="list-style-type: none"> INTERNATIONAL BUILDING CODE (IBC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC) ASSOCIATION (NFPA) NATIONAL ELECTRICAL CODE (NEC) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) INTERNATIONAL FIRE CODE (IFC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL NATIONAL FIRE CODES (NFPA STANDARDS) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AS REFERENCED IN THE 2024 INTERNATIONAL FIRE CODE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL, ASHRAE / IESNA STANDARD 90.1 IS INCORPORATED BY REFERENCE ALL APPLICABLE PROVISIONS OF THE NEVADA REVISED STATUTES (NRS) AND THE NEVADA ADMINISTRATIVE CODE (NAC), INCLUDING THOSE LISTED BELOW THE MOST CURRENT REGULATIONS OF THE STATE FIRE MARSHAL, NEVADA DEPARTMENT OF PUBLIC SAFETY, CARSON CITY, NEVADA (NAC CHAPTER 477, STATE FIRE MARSHAL/JC) THE MOST CURRENT EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA) PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE INCLUDING THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) 	1.11	<p>EXISTING OUTLETS</p> <p>EXISTING OUTLETS AND CIRCUITING NOT IN CONFLICT WITH NEW CONDITIONS SHALL REMAIN. EXTEND OUTLETS TO NEW SURFACES, CAULK AND PROVIDE JUMBO PLATES AS REQUIRED TO PRESENT A SERVICEABLE AND FINISHED APPEARANCE.</p>	3.3	<p>CHANGE ORDERS</p> <ul style="list-style-type: none"> ADDITIONAL WORK MAY BE REQUIRED ON THE PROJECT WHICH IS OUTSIDE THE SCOPE OF THE CONTRACT. SUCH ADDITIONAL WORK WILL BE DESCRIBED IN SUPPLEMENTAL INSTRUCTIONS AND/OR CLARIFICATIONS. TO BE ESTIMATED AND PRICED BY THE CONTRACTOR, AND ACCEPTED BY THE OWNER, PRIOR TO COMMENCING WORK. PROPOSALS SHALL INCLUDE A LIST OF QUANTITIES OF ALL MATERIAL BEING USED WITH UNIT COSTS BROKEN DOWN INTO MATERIAL AND LABOR COSTS PER UNIT. CONTRACTOR SHALL PROVIDE ACTUAL EQUIPMENT QUOTES WHEN REQUESTED BY ENGINEER. MATERIAL COSTS AND LABOR UNITS SHALL NOT EXCEED THE LATEST EDITION OF RS MEANS ELECTRICAL COST DATA. 	3.12	<p>IDENTIFICATION</p> <ul style="list-style-type: none"> PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: <ul style="list-style-type: none"> DESIGNATION (I.E. PANEL A); FUNCTION (I.E. AIR HANDLER AH-1); VOLTAGE, PHASE, WIRE (I.E. 480 VOLT, 3 PHASE, 4W); FEEDER SIZE (I.E. 4-4#4 THWN CU IN 2" C); SOURCE (I.E. SWITCHBOARDS MSB). JUNCTION, PULL AND CONNECTION BOXES: IDENTIFICATION OF SYSTEMS AND CIRCUITS SHALL INDICATE SYSTEM VOLTAGE AND CONTAINED CIRCUITS ON OUTSIDE OF BOX COVER. USE SELF-ADHESIVE MARKING TAPE LABELS AT EXPOSED LOCATIONS AND FLUSH MOUNTED IN UNFINISHED AREAS. LABELING SHALL BE WITH ENGRAVED PLASTIC NAMEPLATE AS SPECIFIED HEREIN. WHERE BOXES ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, LABELING MAY BE NEAT HAND WRITTEN LETTERING WITH INDELEIBLE MARKER. DEVICE PLATES - SWITCHES AND RECEPTACLES: IDENTIFY THE PANELBOARD AND BRANCH CIRCUIT NUMBER FROM WHICH SERVED ON THE FRONT OF THE DEVICE PLATE WITH PERMANENT POLYESTER TAPE. LOCATE ALL LABELS AT THE BOTTOM OF THE PLATE IN THE SAME LOCATION THROUGHOUT. BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED IN EACH JUNCTION BOX AND PULL BOX WITH WIRE MARKERS AS MANUFACTURED BY T&B, PANDUIT, 3M, OR IDEAL TO INDICATE PANEL CIRCUIT NUMBER. JUNCTION BOX COVERS IN BRANCH CIRCUIT WIRING SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBERS. JUNCTION BOX COVERS FOR SPECIAL SYSTEMS SHALL BE LABELED WITH SYSTEM NAME AND OTHER IDENTIFICATION AS DIRECTED. FOR EXAMPLE, "FIRE ALARM-ZONE 1", WHERE BOXES ARE INSTALLED FLUSH MOUNTED IN FINISHED AREAS OR SURFACE MOUNTED IN UNFINISHED AREAS. LABELING SHALL BE WITH ENGRAVED PLASTIC NAMEPLATE AS SPECIFIED HEREIN. WHERE BOXES ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, LABELING MAY BE NEAT HAND WRITTEN LETTERING WITH INDELEIBLE MARKER. DEVICE PLATES - SWITCHES AND RECEPTACLES: IDENTIFY THE PANELBOARD AND BRANCH CIRCUIT NUMBER FROM WHICH SERVED ON THE FRONT OF THE DEVICE PLATE WITH PERMANENT POLYESTER TAPE. LOCATE ALL LABELS AT THE BOTTOM OF THE PLATE IN THE SAME LOCATION THROUGHOUT.
1.4	<p>DEFINITIONS</p> <p>PROVIDE FURNISH, INSTALL, CONNECT AND TEST UNTIL COMPLETE</p> <p>FURNISH ALL NECESSARY WIRING, CONNECT AND TEST UNTIL COMPLETE</p> <p>INSTALL FURNISH, SET IN PLACE, WIRE AND TEST UNTIL COMPLETE</p> <p>WORK MATERIALS COMPLETELY INSTALLED, CONNECTED, AND TESTED UNTIL COMPLETE</p> <p>EQUAL ACCEPTABLE EQUAL AS DETERMINED BY THE ENGINEER</p>	1.12	<p>EXISTING SWITCHGEAR</p> <p>REUSE EXISTING SWITCHGEAR AND PANELS IN PLACE WHERE SO INDICATED. MODIFY AS REQUIRED TO ACCOMMODATE NEW WORK. PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSES AS REQUIRED. MATCH AIC RATINGS. REARRANGE EXISTING CIRCUITS WITHIN PANELS TO AGREE WITH NEW PANEL SCHEDULES. TRACE AND IDENTIFY ALL EXISTING CIRCUITS ON NEW RECORD PANEL SCHEDULES.</p>	3.4	<p>GUARANTEE</p> <ul style="list-style-type: none"> FURNISH THE OWNER A WRITTEN GUARANTEE, STATING THAT IF THE WORKMANSHIP AND/OR MATERIAL EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN (1) YEAR AFTER THE FINAL ACCEPTANCE BY THE OWNER, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED, SUBMIT WITH OPERATION AND MAINTENANCE MANUALS. OBTAIN FROM THE VARIOUS MANUFACTURERS OR VENDORS GUARANTEES OR WARRANTIES FOR THEIR PARTICULAR EQUIPMENT OR COMPONENTS, AND DELIVER THEM TO THE OWNER. ALL GUARANTEES AND WARRANTIES PROVIDED SHALL BE REFERENCED TO THIS PROJECT. IN EVENT THAT SYSTEMS ARE PLACED IN OPERATION IN SEVERAL PHASES AT THE OWNER'S REQUEST, GUARANTEE WILL BEGIN ON DATE EACH SYSTEM OR ITEM OF EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. PROVIDE O&M MANUALS FOR ALL EQUIPMENT WHEN EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. ALL GUARANTEES AND WARRANTIES SHALL INCLUDE LABOR AND MATERIAL AT THE SITE OF INSTALLATION FOR THE DURATION OF THE GUARANTEE PERIOD. 	3.13	<p>ONGOING OPERATION</p> <p>CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER, COMMUNICATIONS OR FIRE ALARM SYSTEMS SHALL BE PERFORMED ONLY AT SUCH TIMES AS DIRECTED BY GENERAL CONTRACTOR/OWNER. OUTAGES SHALL BE MOMENTARY IN NATURE. EACH SUCH OUTAGE (OR OPERATION WHICH MAY POSE RISK OF AN ACCIDENTAL OUTAGE) SHALL BE SCHEDULED 48 HOURS IN ADVANCE.</p>
1.5	<p>REQUIREMENTS OF REGULATORY AGENCIES</p> <ul style="list-style-type: none"> OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK. COMPLY WITH ALL ORDINANCES PERTAINING TO WORK DESCRIBED HEREIN. PAY ALL EXPENSES ARISING FROM THE PROCUREMENT OF THESE CERTIFICATES AND INCLUDE IN THE BASE CONTRACT PRICE. WORK UNDER THIS DIVISION PER DRAWINGS, SPECIFICATIONS, LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, (NFPA-70) INCLUDING LOCAL AMENDMENTS AND INTERPRETATIONS, LOCAL ADOPTED BUILDING CODES, AND ANY SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK WITHIN COMPLETE INSTALLATION. IN EVENT OF CONFLICT, INSTALL WORK PER MOST STRINGENT CODE REQUIREMENTS AS DETERMINED BY ENGINEER. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES. ALL MATERIALS, PRODUCTS, DEVICES, FIXTURES, FORMS OR TYPES OF CONSTRUCTION INCLUDED IN THIS PROJECT SHALL MEET OR EXCEED THE PUBLISHED REQUIREMENTS OF NATIONAL ELECTRICAL CODE (NEC), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONS (NEMA). ALL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES (UL) LABEL OR EQUIVALENT FROM APPROVED INDEPENDENT TESTING LABORATORY. ARRANGE, PAY FEES FOR AND COMPLETE WORK TO PASS REQUIRED TESTS BY AGENCIES HAVING AUTHORITY OVER WORK. DELIVER TO ENGINEER COPIES OF THE CERTIFICATES OF INSPECTION AND APPROVAL ISSUED BY AUTHORITIES AND PROVIDE ORIGINAL COPY OF EACH CERTIFICATE TO OWNER. WHEN REQUIRED BY LAW OR REGULATIONS, THE GOVERNMENTAL AGENCY HAVING JURISDICTION FOR INSPECTIONS SHALL BE GIVEN REASONABLE NOTICE AND OPPORTUNITY TO INSPECT THE WORK. ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE. AFTER IT HAS BEEN INSPECTED, THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONDITION AT THEIR OWN EXPENSE. 	1.13	<p>UTILITIES</p> <ul style="list-style-type: none"> UTILIZE ONE OF THE MANUFACTURERS LISTED TO FURNISH ALL OF THE MAJOR EQUIPMENT (I.E. PANELS, TRANSFORMERS, BUS DUCT, SWITCHGEAR, CIRCUIT BREAKERS, ETC.) REQUIRED FOR THIS PROJECT. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS. ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE. 	3.5	<p>OBSERVATIONS OF WORK AND DEMONSTRATION OF OPERATION (ACCEPTANCE)</p> <ul style="list-style-type: none"> AT ALL OBSERVATIONS OF WORK, OPEN PANEL COVERS, JUNCTION BOX COVERS, PULL BOX COVERS, DEVICE COVERS, AND OTHER EQUIPMENT WITH REMOVABLE PLATES FOR OBSERVATION AS REQUESTED BY A/JH OR ENGINEER. PROVIDE SUFFICIENT PERSONNEL TO EXPEDITE COVER REMOVAL AND REPLACEMENT. CONTRACTOR TO DEMONSTRATE OPERATION OF NEW EQUIPMENT AND/OR SYSTEMS TO SATISFACTION OF OWNER/ENGINEER. CONTRACTOR TO HAVE MANUFACTURER AVAILABLE FOR DEMONSTRATION OF EQUIPMENT AND/OR SYSTEMS WHERE REQUESTED BY OWNER/ENGINEER. FURNISH AFFIDAVIT SIGNED BY OWNER'S REPRESENTATIVE INDICATING THAT DEMONSTRATION OF OPERATION HAS BEEN PERFORMED. 	3.14	<p>FLEXIBLE CONNECTIONS</p> <p>PROVIDE FLEXIBLE ELECTRICAL CONDUIT AND CONDUCTORS HAVING A SLACK, 90-DEGREE BEND OR LOOP IN ANY PLANE BETWEEN CONNECTIONS AT ALL VIBRATION ISOLATED EQUIPMENT AND THE FIRST ATTACHMENT TO BUILDING STRUCTURE OR CABINETS, PANELS OR BOXES MOUNTED THEREON.</p>
1.6	<p>DRAWINGS AND SPECIFICATIONS</p> <ul style="list-style-type: none"> DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WORK CALLED FOR BY ONE IS BINDING AS IF CALLED FOR BY BOTH. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DURING THE BIDDING PERIOD. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF THEIR FAILURE TO HAVE BROUGHT SAID DISCREPANCIES TO THE ATTENTION OF THE CONSULTANT DURING THE BIDDING PERIOD OR BY REASON OF ANY ERROR ON THE CONTRACTOR'S PART. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHOW GENERAL RUN OF CIRCUITS AND APPROXIMATE LOCATION OF EQUIPMENT. THE CONTRACTOR SHALL REVIEW DRAWINGS OF ALL TRADES TO ASSURE COORDINATION PRIOR TO PLACEMENT OF WORK. RIGHT IS RESERVED TO CHANGE LOCATION OF EQUIPMENT AND DEVICES, AND ROUTING OF CONDUITS WITHIN 10 FEET, WITHOUT EXTRA COST TO OWNER (PRIOR TO ROUGH-IN). USE DIMENSIONS IN FIGURES, SHOP DRAWINGS, ETC. AND ACTUAL SITE MEASUREMENTS IN PREFERENCE TO SCALE DIMENSIONS. DO NOT SCALE DISTANCES OFF THE DRAWINGS. LOCATIONS - USE DIMENSIONED DETAILS OR ACTUAL FIELD CONDITIONS. VERIFY ITEM MOUNTING HEIGHTS AS REQUIRED BY PROJECT CONDITIONS PRIOR TO ROUGH-IN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS IN MATTERS OF DIMENSIONS. DISCREPANCIES BETWEEN DIFFERENT DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING FOR DETERMINATION. LAYOUT EQUIPMENT AS SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE. VERIFY ACCESS REQUIREMENTS FOR EQUIPMENT ACTUALLY FURNISHED AND ADJUST LAYOUT TO COMPLY WITH NEC 110. RIGHT IS RESERVED TO CHANGE LAYOUT WITHIN 10 FEET WITHOUT ADDITIONAL COST (PRIOR TO ROUGH-IN). ALL DEVICES, LIGHT FIXTURES, ETC. LOCATED IN CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS SPECIFICALLY NOTED OR APPROVED TO DO OTHERWISE. THE CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE AND CONFIRM THE MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, DOORWAYS, AND OTHER ARCHITECTURAL, MECHANICAL OR STRUCTURAL WORK. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS. EXECUTION OF CONTRACT IS EVIDENCE THAT CONTRACTOR HAS EXAMINED ALL EXISTING CONDITIONS, DRAWINGS AND SPECIFICATIONS RELATED TO WORK, AND IS INFORMED AS TO EXTENT AND CHARACTER OF WORK. LATER CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED. ALL WORK CALLED FOR IN THIS SECTION OF THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED UNDER THIS SECTION, REGARDLESS OF WHETHER SUCH WORK MAY ALSO HAVE BEEN CALLED FOR IN OTHER SECTION(S). DISCREPANCIES IN OR CONFLICTS AMONG THE VARIOUS PARTS OF THE CONTRACT DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF THEIR OBLIGATION TO PERFORM. NO ATTEMPT HAS BEEN MADE TO ESTABLISH THE REQUIRED SECTIONS OR SPLITS OF EQUIPMENT RELATIVE TO THE SIZE OF ACCESS INTO THE SPACE. BUILDING, ETC. CONTRACTOR SHALL ESTABLISH ALL SAID SPLITS, SECTIONS, ETC. NECESSARY TO INSTALL EQUIPMENT COMPLETE WITHOUT UNDUE DISASSEMBLY OF EQUIPMENT OR DEMOLITION OF BUILDING PARTS AT SITE OF WORK. CHARGES FOR EXTRA WORK ARE NOT ALLOWED UNLESS WORK IS AUTHORIZED BY WRITTEN ORDER FROM THE OWNER'S REPRESENTATIVE APPROVING CHARGES FOR WORK. CHECK ALL DOOR SWINGS SO LIGHTING CONTROL DEVICES ARE NOT LOCATED BEHIND DOORS. RELOCATE DEVICES AS REQUIRED WITH THE CONSULTANT'S REVIEW. 	2.1	<p>PART 2 - PRODUCTS MATERIALS</p> <ul style="list-style-type: none"> ALL MATERIAL SHALL BE NEW, AND HAVE A UL LABEL WHERE AVAILABLE. IF UL LABEL IS NOT AVAILABLE, MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE NEMA, IEEE AND FEDERAL STANDARDS. USE UL LABELED COMPONENTS IN ASSEMBLIES THAT DO NOT HAVE OVERALL UL LABEL. ALL EQUIPMENT SHALL COMPLY WITH THE TERMS "LISTED AND LABELED" AS DEFINED IN THE NEC 70, ARTICLE 100. SUBMIT LETTER STATING COMPLIANCE WITH THESE REQUIREMENTS. UTILIZE ONE OF THE MANUFACTURERS LISTED TO FURNISH ALL OF THE MAJOR EQUIPMENT (I.E. PANELS, TRANSFORMERS, BUS DUCT, SWITCHGEAR, CIRCUIT BREAKERS, ETC.) REQUIRED FOR THIS PROJECT. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS. ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE. 	3.6	<p>COOPERATION</p> <ul style="list-style-type: none"> CAREFULLY COORDINATE WORK WITH OTHER CONTRACTORS AND SUBCONTRACTORS. REFER CONFLICTS BETWEEN TRADES TO ENGINEER. PROVIDE NECESSARY INFORMATION TO OTHER TRADES FOR SUCH COORDINATION. SUCH INFORMATION SHALL INCLUDE SHOP DRAWINGS, PRODUCT DATA AND ALL OTHER REQUIRED DATA. PROVIDE A SYSTEM ERECTION/COORDINATION DRAWING SHOWING ELECTRICAL, HVAC, PLUMBING AND ARCHITECTURAL FOR INSTALLATION IN CONGESTED AREAS, WHEN REQUESTED. WHENEVER SUCH INFORMATION IS NOT PROVIDED IN A TIMELY MANNER OR WHENEVER SUCH INFORMATION IS INCOMPLETE, THIS CONTRACTOR SHALL BEAR ALL COSTS FOR PROVIDING OR CORRECTING AFFECTED WORK OF RELATED TRADES WITH NO CHANGE TO THE CONTRACT PRICE OR CONSTRUCTION SCHEDULE. WORK TO BE INSTALLED AS PROGRESS OF PROJECT WILL ALLOW. SCHEDULE OF WORK DETERMINED BY GENERAL CONTRACTOR, OWNER, AND/OR ARCHITECT/ENGINEER. 	3.15	<p>SALVAGE</p> <p>ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO OWNER FOR SALVAGE. ANY EQUIPMENT SELECTED BY OWNER SHALL BE DELIVERED TO OWNER ON SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.</p>
1.7	<p>COPYRIGHT</p> <p>THESE PLANS, SPECIFICATIONS, AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF PK ELECTRICAL. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO PK ELECTRICAL. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF PK ELECTRICAL AND MAY NOT BE REPRODUCED, DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF PK ELECTRICAL.</p>	2.2	<p>CIRCUITING</p> <p>ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREW INSULATED-THROAT FITTINGS SHALL BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM 24" WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE AND CONCRETE SLAB TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. FMC MAY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURE FROM J-BOX. FIXTURE WHIPS MAY NOT EXCEED 6' IN LENGTH. METAL CLAD CABLE (TYPE MC) WILL BE ACCEPTABLE FOR SINGLE CIRCUIT BRANCH CIRCUITING. FLEXIBLE WHIPS FROM JUNCTION BOXES TO LIGHTING FIXTURES AND WITHIN CASEWORK. TYPE MC CABLE MAY NOT BE USED FOR HOMERUNS. ENT IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY. CONNECT PUMP MOTORS WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT.</p>	3.7	<p>DELIVERY, STORAGE AND HANDLING</p> <ul style="list-style-type: none"> DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINER. PRODUCTS SHALL BE PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS AND OTHER INFORMATION NEEDED FOR IDENTIFICATION. STORE TO PREVENT DAMAGE AND INJURY. STORE MATERIALS TO PREVENT CORROSION. STORE FINISHED MATERIALS AND EQUIPMENT TO PREVENT STAINING AND DISCOLORING. STORE MATERIALS AFFECTED BY CONDENSATION IN WARM DRY AREAS. PROVIDE HEATERS. CONTRACTOR SHALL VERIFY THE AVAILABILITY OF ON SITE STORAGE SPACE. IF NO ON SITE STORAGE SPACE IS AVAILABLE THEN THE CONTRACTOR SHALL COVER THE COST FOR OFF SITE STORAGE. MATERIALS STORED AT THE PROJECT SITE THAT BECOMES SOILED WITH CONSTRUCTION DIRT, CONCRETE, OR MOISTURE SHALL BE REMOVED FROM THE SITE AND REPLACED WITH NEW. DO NOT INSTALL SOILED MATERIAL. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONFLICTS BETWEEN CONTRACT DOCUMENTS AND THESE RECOMMENDATIONS SHALL BE REFERRED TO ENGINEER FOR REMEDY. ELECTRICAL OR ELECTRONIC EQUIPMENT THAT HAS BEEN DAMAGED, EXPOSED TO WEATHER OR IS, IN THE OPINION OF THE ENGINEER OR ARCHITECT, OTHERWISE UNSUITABLE BECAUSE OF IMPROPER FABRICATION, STORAGE OR INSTALLATION SHALL BE REMOVED AND REPLACED BY THIS CONTRACTOR AT HIS EXPENSE. 	3.16	<p>SEISMIC PROTECTION</p> <ul style="list-style-type: none"> THIS PROJECT IS SUBJECT TO THE SEISMIC BRACING REQUIREMENT OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION. THE FOLLOWING CRITERIA ARE APPLICABLE TO THIS PROJECT: <ul style="list-style-type: none"> SEISMIC USE GROUP: II SEISMIC CLASS CATEGORY: D SEISMIC DESIGN CATEGORY: D IT IS RECOMMENDED THAT THE CONTRACTOR ENLIST THE SERVICES OF A QUALIFIED SEISMIC BRACING VENDOR/SUPPLIER. PROVIDE BRACING FOR IDENTIFIED EQUIPMENT AND SYSTEM. ELECTRICAL EQUIPMENT: ELECTRICAL EQUIPMENT SHALL INCLUDE THE FOLLOWING ITEMS TO THE EXTENT REQUIRED ON THE DRAWINGS OR IN OTHER SECTIONS OF THESE SPECIFICATIONS TO BE SEISMICALLY PROTECTED: <ul style="list-style-type: none"> LIGHT FIXTURES, TRANSFORMERS, SWITCHBOARDS, PANELBOARDS. ELECTRICAL SYSTEMS: THE FOLLOWING ELECTRICAL SYSTEMS SHALL BE SEISMICALLY PROTECTED IN ACCORDANCE WITH THIS SPECIFICATION: <ul style="list-style-type: none"> LIGHTING, POWER, SECURITY, COMMUNICATIONS AND FIRE ALARM CONDUITS REQUIRING NO SPECIAL SEISMIC RESTRAINTS: SEISMIC RESTRAINTS MAY BE OMITTED FROM ELECTRICAL CONDUIT LESS THAN 2-1/2 INCHES TRADE SIZE. ALL OTHER INTERIOR CONDUIT SHALL BE SEISMICALLY PROTECTED AS SPECIFIED.
1.8	<p>SUBMITTALS</p> <p>BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, LIGHTING CONTROLS, SWITCHGEAR, PANELS, CIRCUIT BREAKERS, MOTOR CONTROLLERS, DISCONNECTS WIRING DEVICES, PLATES, RACEWAYS AND FITTINGS, ETC. PROPOSED FOR THIS PROJECT.</p>	2.3	<p>WIRING</p> <ul style="list-style-type: none"> WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. WHERE ALUMINUM IS ALLOWED, WIRE SHALL BE TERMINATED IN AN INSULATED CUAL, RATED COMPRESSION TERMINAL FITTING (MAC-ADAPT OR EQUAL), INSULATION SHALL BE THW, THWN OR THHN. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE WHITE (120V) OR GREY (277V) AND PHASE WIRES SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C) FOR A 120/208 VOLT SYSTEM AND BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C) FOR A 277/480 VOLT SYSTEM. 	3.8	<p>ANCHORS</p> <ul style="list-style-type: none"> PROVIDE ANCHORS FOR ALL EQUIPMENT, RACEWAYS, HANGERS, ETC. TO SAFELY SUPPORT WEIGHT OF ITEM INVOLVED PLUS 100% FOR DEAD LOADS. LIVE LOADS SHALL BE CONSIDERED IN ADDITION TO DEAD LOADS. ANCHORS TO CONSIST OF EXPANSION TYPE DEVICES SIMILAR TO "REDHEAD" OR LEAD EXPANSION ANCHORS. PLASTIC ANCHORS ARE NOT ACCEPTABLE. USE PRESET ANCHOR STEEL INSERTS IN CONCRETE SLABS. PROVIDE PRESET ANCHOR SIZE AND TYPE FOR ANTICIPATED OR SPECIFIED ROD/BOLT SIZE AND LIVE/DEAD LOAD. 	3.17	<p>END OF SECTION 260000</p>



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**Preliminary
Not For
Construction**

**EXTERIOR QUAD LIGHTING
STEWART FACILITY
#23-C21**
1 JACOBSEN WAY
CARSON CITY, NV 89701

REVISIONS

SHEET TITLE
ELECTRICAL SPECIFICATIONS

DRAWN	MLS
CHECKED	JEG
DATE	02/10/26
JOB NUMBER	25203
PROJECT MGR	MLS

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FEBRUARY 2026

E002



9-Feb-26		PANEL: (E) BB				LOCATION: ELECTRICAL 005						
TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE
L	KITCHEN LIGHTS	20	1	0			2	20			101 LOBBY, ADMIN, RES.	R
L	[1] QUAD LIGHTING	724	20/2	3		724		4	20		101 LOBBY, ADMIN	R
L	X	724	X	5			724		6	20	102 ADMIN	R
	SPACE	20	7	0				8	20		103 RETAIL	R
	SPACE	20	9			0		10	20		103 RETAIL	R
	SPACE	20	11			0		12	20		104 RESOURCE	R
	SPACE	20	13	0				14	20		104 RESOURCE	R
	SPACE	20	15			0		16	20		104 RESOURCE	R
	SPACE	20	17			0		18	20		GARBAGE DISP.	R
	SPACE	20	19	0				20	20		106 ROTATING EXHIBIT	R
	SPACE	20	21			0		22	20		106 ROTATING EXHIBIT	R
	SPACE	20	23			0		24	20		106 FLOOR BOX	R
E	104 COPIER	20	25	0				26	20		106 FLOOR BOX	R
R	111 RECEPITS	20	27			0		28	20		POLE RECEPITS	R
R	POWER PEDESTALS	720	20	29			720	30	20		POLE RECEPITS	R
E	MICROWAVE	20	31	0				32	20		108 EXHIBIT/ART	R
E	COFFEE POT	20	33			0		34	20		108 EXHIBIT/ART	R
	SPARE	20	35			0		36	20		RMS, 109-111	R
	SPARE	20	37	0				38	20		REFRIDGE RM 105	E
R	RMS, 113-115	20	39			0		40	20		106 EXHIBIT J-BOX	E
R	RMS, 113-115	20	41			0		42	20		106 EXHIBIT J-BOX	E
E	DRINKING FOUNTAIN	20	43	0				44	20		106 EXHIBIT J-BOX	E
E	ELECTRIC CAR CHARGER N	40/2	45			0		46	20		106 EXHIBIT J-BOX	E
E	X	X	47			0		48	20		106 EXHIBIT J-BOX	E
E	EXISTING LOAD	40/2	49	0				50	20		106 EXHIBIT J-BOX	E
E	X	X	51			0		52	20		106 EXHIBIT J-BOX	E
	SPACE		53			0		54	20		SPARE	
	SPACE		55	0				56	20		SPARE	
	SPACE		57			0		58	20/2		SPARE	
	SPACE		59			0		60	X		X	
	SPACE		61	0				62			SPACE	
	SPACE		63			0		64			SPACE	
	SPACE		65			0		66			SPACE	
						0	724			1444		

COPPER BUS SIZE:	250	GROUND:	STANDARD	NOTES:	
VOLTAGE:	208	MOUNTING:	SURFACE	BOLD INDICATES MODIFIED LOAD	
PHASE:	3	ENCLOSURE:	NEMA 1	[1] PROVIDE NEW BREAKER.	
WIRE:	4	# OF 1-POLE CIRCUITS	66	MATCH TYPE AND AIC RATING.	
LUGS:	MLO	CONNECTED KVA:	2.2	EXISTING SIEMENS P1 TYPE	
BREAKER AIC RATING:	EXISTING	CONNECTED AMPS:	6.0	PANELBOARD.	
NEUTRAL:	100%	NET KVA:	2.2		
FEEDER OCPD SIZE:	125	NET AMPS:	6.0		

CONTRACTOR TO PROVIDE NEW TYPEWRITTEN PANEL SCHEDULE USING EXISTING INFORMATION FOUND AT PANELBOARDS UPON PROJECT COMPLETION.

DELTA LOAD CALCULATION: PANEL BB			
NEW EQUIPMENT	WATTAGE	QUANTITY	TOTAL
(N) QUAD LIGHTS	362	4	1448
(N) POWER PEDESTALS	360	2	720
DELTA LOADS CALCULATION(WATTS) @ 208V/3PH:			2168W
			6AMPS

LIGHTING CONTROL SEQUENCE OF OPERATION	
EXTERIOR - QUAD	
<ul style="list-style-type: none"> EXISTING 365/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK AND PHOTOCCELL CONTROLLED. MOTION SENSOR INTEGRAL TO FIXTURES SHALL DIM FIXTURES TO 30% OUTPUT IN PERIODS OF NO MOTION DETECTED; FIXTURES SHALL GO TO FULL OUTPUT WHEN OCCUPANCY IS DETECTED. 10-MINUTE INACTIVITY TIMEOUT. FIXTURES SHALL AUTOMATICALLY TURN ON/OFF AT DUSK/DAWN. THE OWNER SHALL HAVE THE OPTION TO TURN OFF ALL LIGHTING AT PRE-PROGRAMMED TIMES. 	

LIGHTING FIXTURE SCHEDULE		
LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.		
SUBSTITUTION DEFINITIONS ● OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS. ● NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED. ● SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.		
TYPE	SYMBOL	DESCRIPTION AND MANUFACTURER
S1		LED POLE SITE FIXTURE, TYPE 4 FORWARD THROW DISTRIBUTION, INTEGRAL PHOTOCCELL CONTROL, INTEGRAL MOTION SENSOR, CUSTOM FEDERAL GREEN FINISH, 25" MOUNTING HEIGHT. LAMP: LED, 45,994 LUMENS, 4000K, 80CRI VOLTAGE: 208V MANUFACTURER: VISIONAIRE VMX-II-T4FT-96LD-12-40K8-UNV-AM-CC-PCR-208-DIM-WSC-40-BHS FIXTURE ARM: VISIONAIRE TNS101-5-S1-4-CC POLE: VISIONAIRE RNTS-AR-11-25-12BC-136-S1-CC SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL
362VA		LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-50-20 (CEILING-WALL-FLOOR) PER I.E.S. (ILLUMINATED ENGINEERING SOCIETY). THE ROOM SURFACES ARE USED AS AN INTEGRAL COMPONENT OF THE LIGHTING SYSTEMS. THE REFLECTANCE OF THE SURFACE PAINT COLOR, MATERIAL, AND OTHER ROOM SURFACES, DIRECTLY AFFECTS THE DELIVERY OF LIGHT TO THE WORK PLANE. A SIGNIFICANT DROP IN OVERALL LIGHTING LEVELS WILL OCCUR IF REFLECTANCES ARE LOWERED. THE ARCHITECT/OWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL INLINE WITH THE REFLECTANCES MENTIONED ABOVE.

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2024 IECC
Project Title:	Stewart Facility Exterior Quad Lighting
Location:	Carson City, Nevada
Climate Zone:	4b
Project Type:	Addition
Exterior Lighting Zone:	Other (L25)

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Allowed Exterior Lighting Power

Area/Surface Category	Quantity	Allowed Watts / ft2	Tradable Wattage	Allowed Watts (B X C)
Quad (Special feature area)	27500 ft2	0.07	No	1925.0000000000002
Total Tradable Watts (a):				1925
Base Site Allowance (b):				400
Total Allowed Watts:				2325

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A base site allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/Fixture	# of Fixture	Fixture Watt. (C X D)
Quad (Special feature area, 27500 ft2), Tradable Wattage			
S1: S1: LED:	0	4	362
Total Tradable Proposed Watts:			1448

Proposed Exterior Lighting Controls

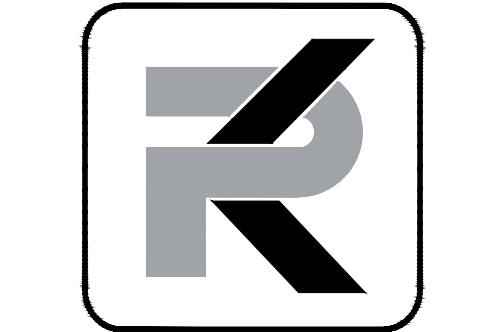
Fixture	Lighting Control
Quad (Special feature area, 27500 ft2)	
S1: S1: LED:	Daylight Shutoff, Exterior Timeswitch

Exterior Lighting PASSES: Design 38% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2024 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date
_____	_____	_____



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 8132 Maryland Ave., Ste 400 | Clayton, MO
 pk-electrical.com | PKR24218

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EXTERIOR QUAD LIGHTING
STEWART FACILITY
#23-C21
1 JACOBSEN WAY
CARSON CITY, NV 89701

REVISIONS

SHEET TITLE
 PANEL SCHEDULES, FIXTURE
 SCHEDULE, & CALCULATIONS

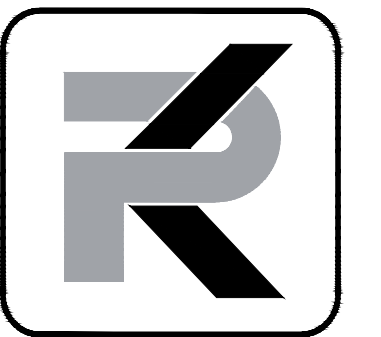
DRAWN: _____ MLS
 CHECKED: _____ JEG
 DATE: _____ 02/10/26
 JOB NUMBER: _____ 25203
 PROJECT MGR: _____ MLS

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E003

FEBRUARY 2026





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**EXTERIOR QUAD LIGHTING
STEWART FACILITY
#23-C21**
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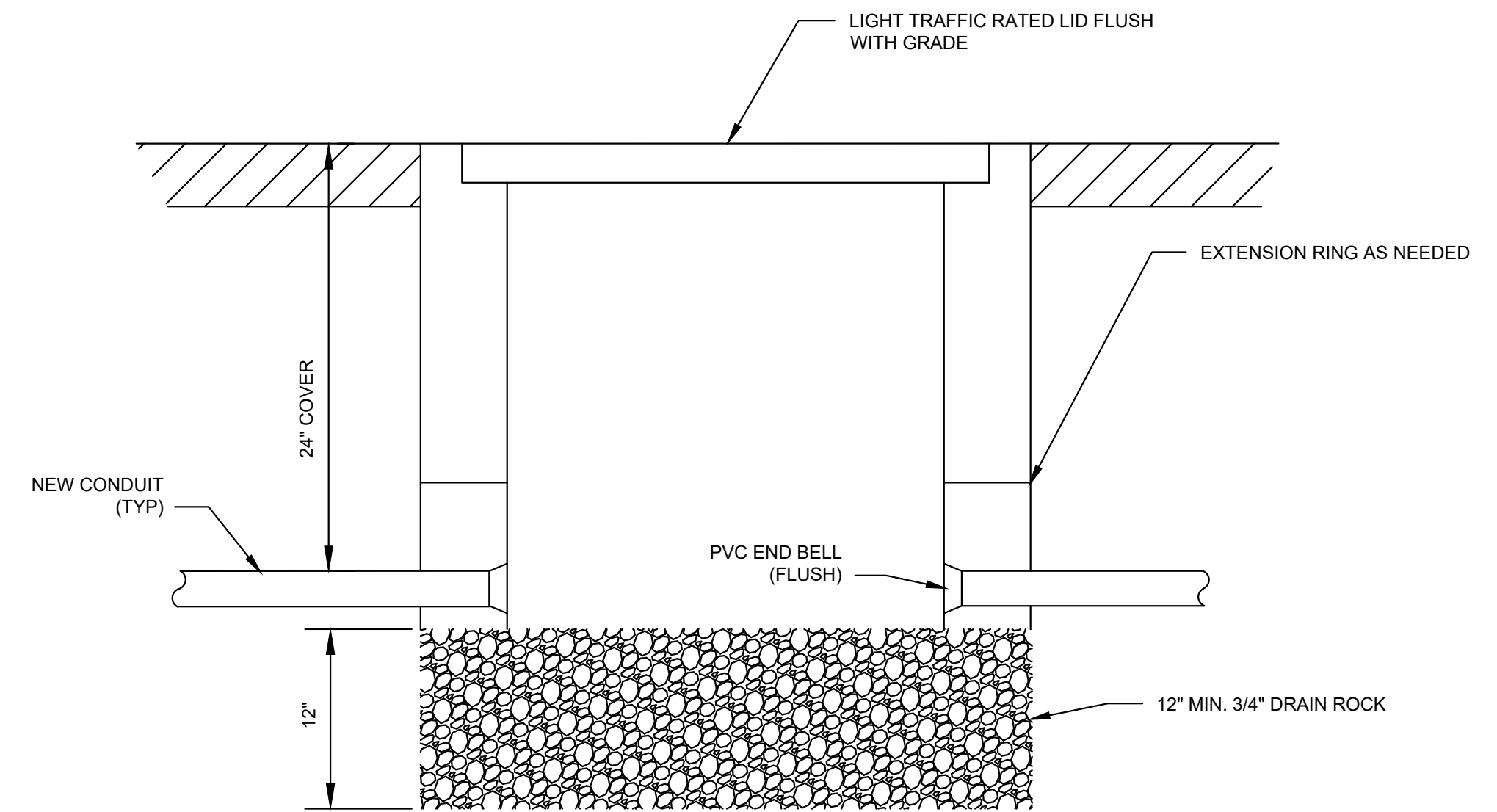
REVISIONS

SHEET TITLE

DETAILS

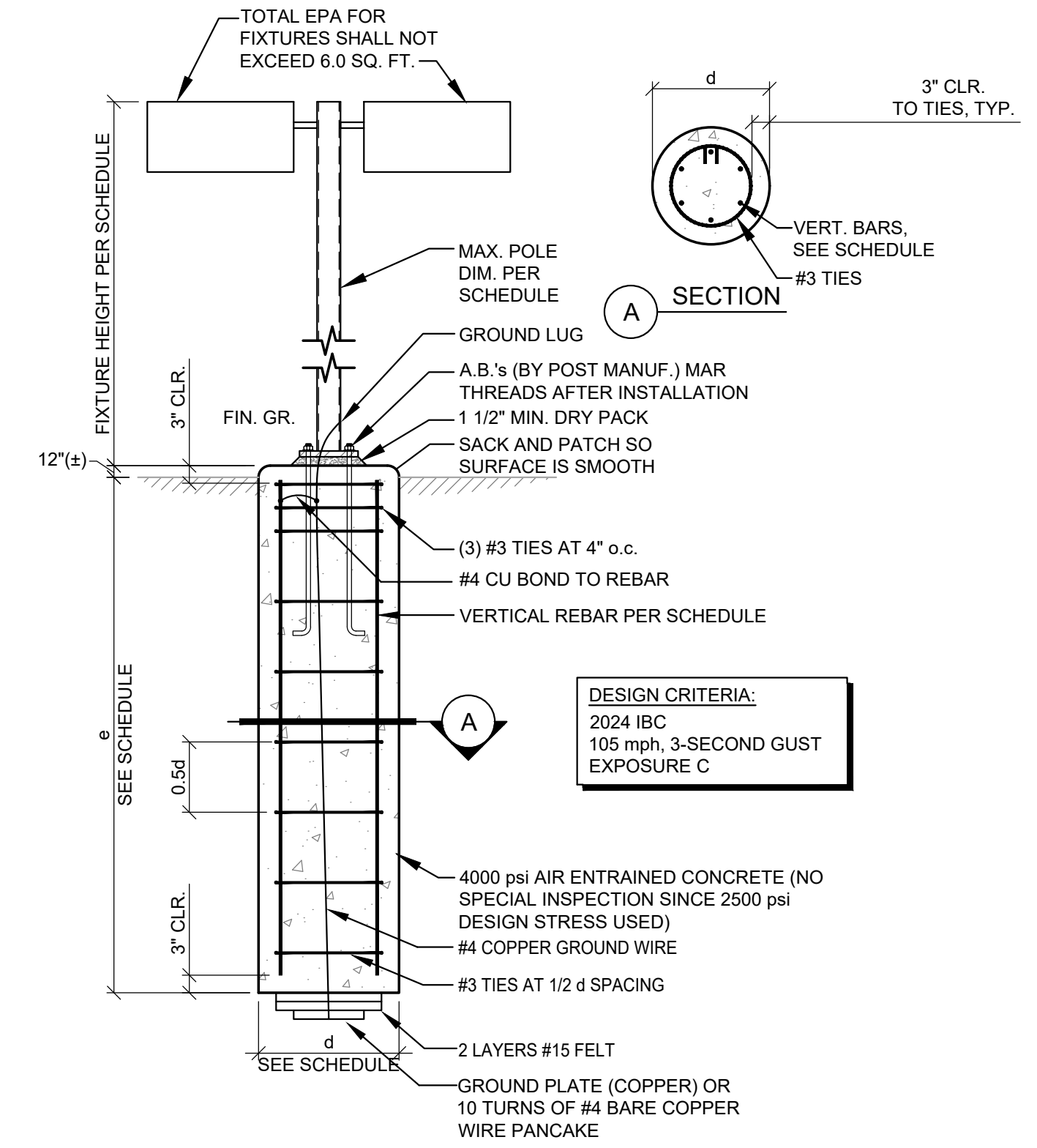
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 CHECKED: JEG
 DATE: 02/10/26
 JOB NUMBER: 25203
 PROJECT MGR: MLS

E004



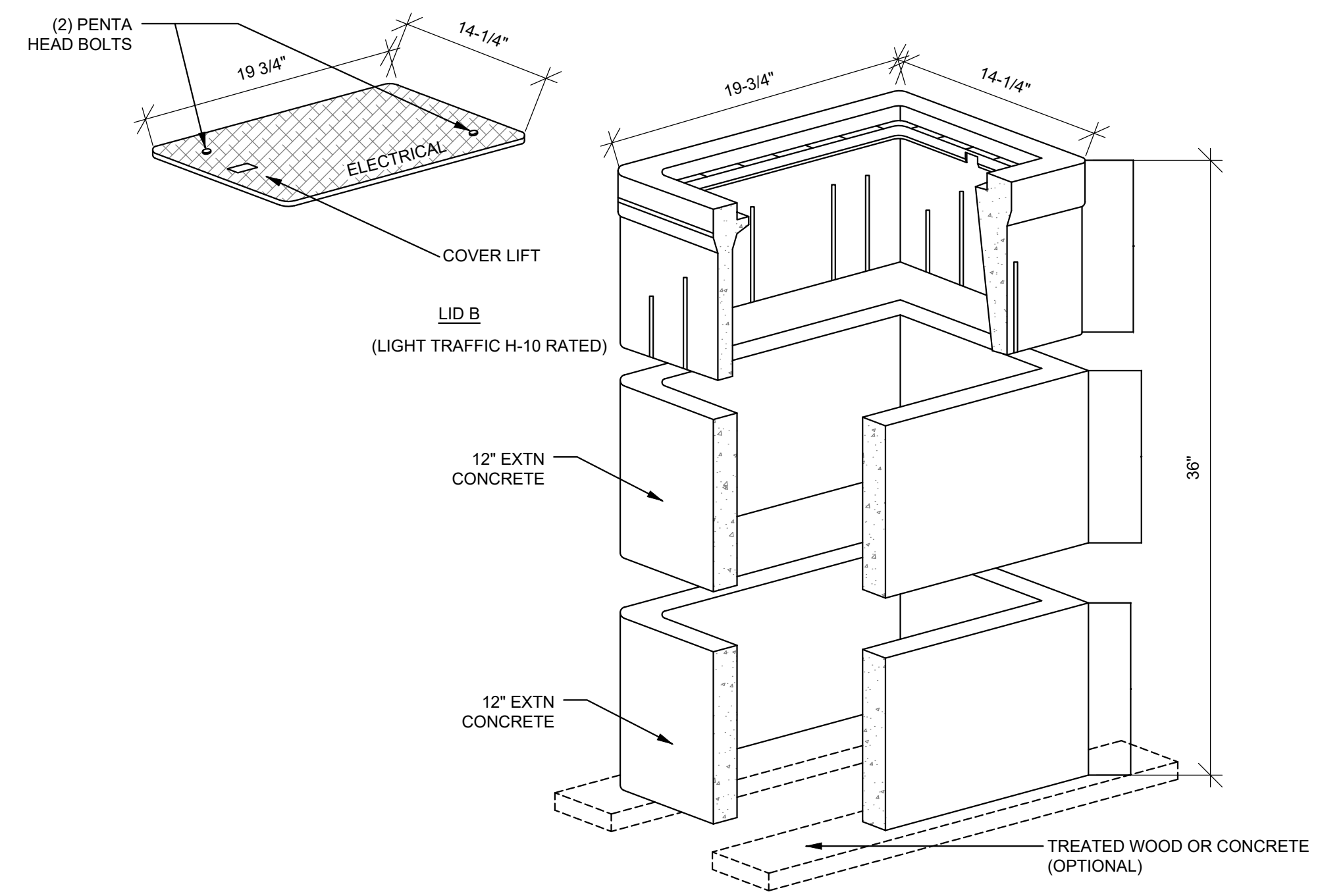
D PULL BOX DETAIL
 SCALE: NONE

Max. Fixture Height	Max. Pole Dim.	Flush Base					
		Option 1			Option 2		
		d	e	Vertical Bars	d	e	Vertical Bars
12'-0"	8"	18	50	(4) #5	24	45	(4) #6
16'-0"	8"	18	57	(4) #5	24	51	(4) #6
20'-0"	8"	18	65	(4) #5	24	59	(4) #6
25'-0"	8"	24	68	(4) #6	30	62	(6) #6
30'-0"	8"	24	75	(4) #6	30	71	(6) #6
35'-0"	8"	24	83	(4) #6	30	77	(6) #6
40'-0"	12"	24	102	(4) #6	30	95	(6) #6
50'-0"	12"	24	119	(4) #6	30	110	(6) #6

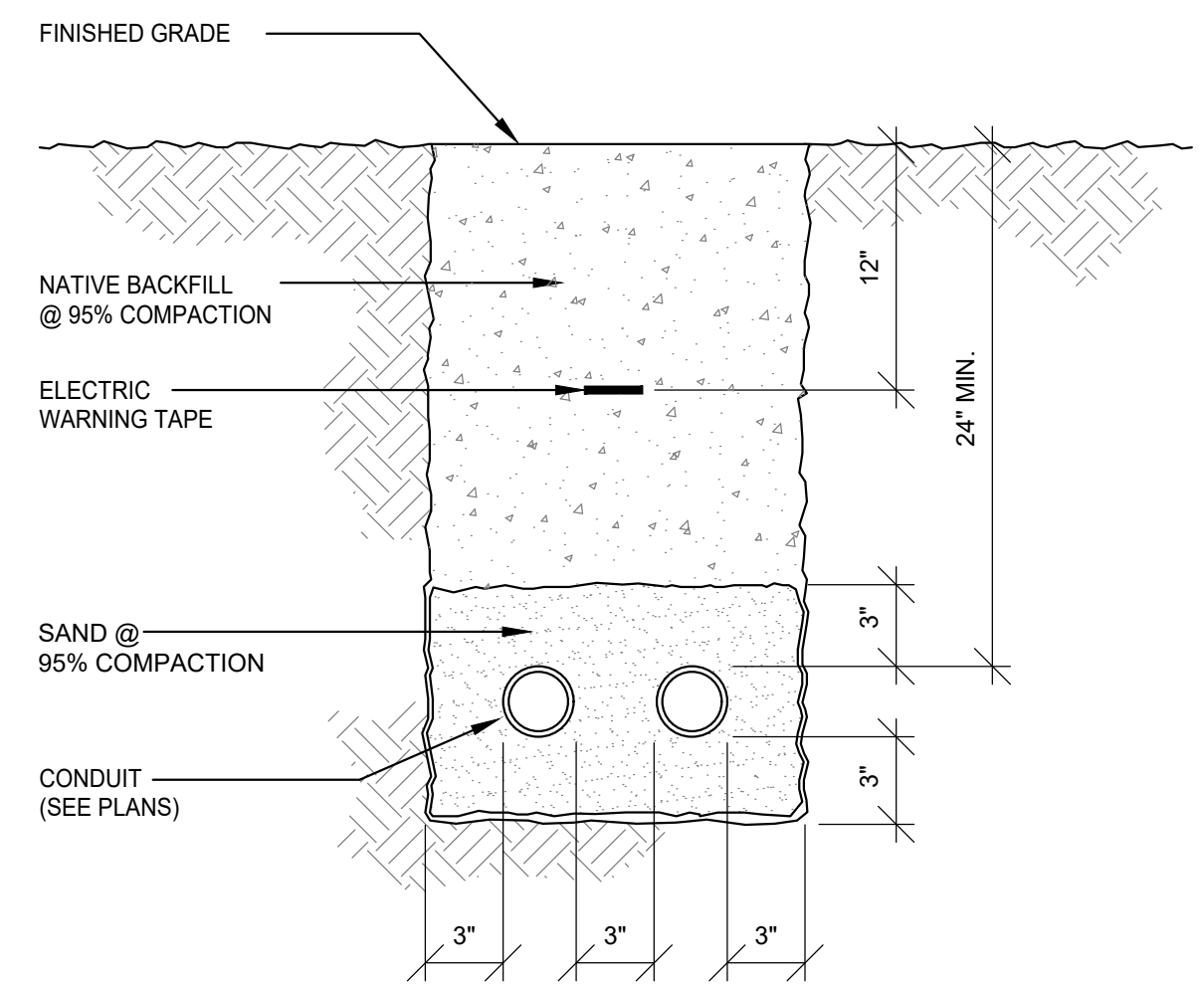


A POLE BASE - FLUSH
 SCALE: NONE

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 FEBRUARY 2026

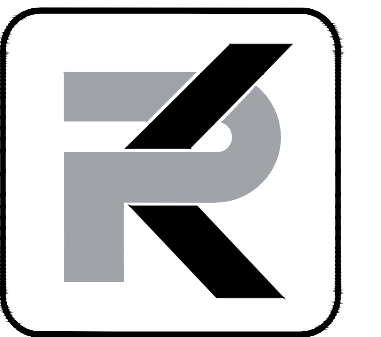


C N-9 BOX CONCRETE
 SCALE: NONE



B TYPICAL 2 CONDUIT TRENCH DETAIL
 SCALE: NONE

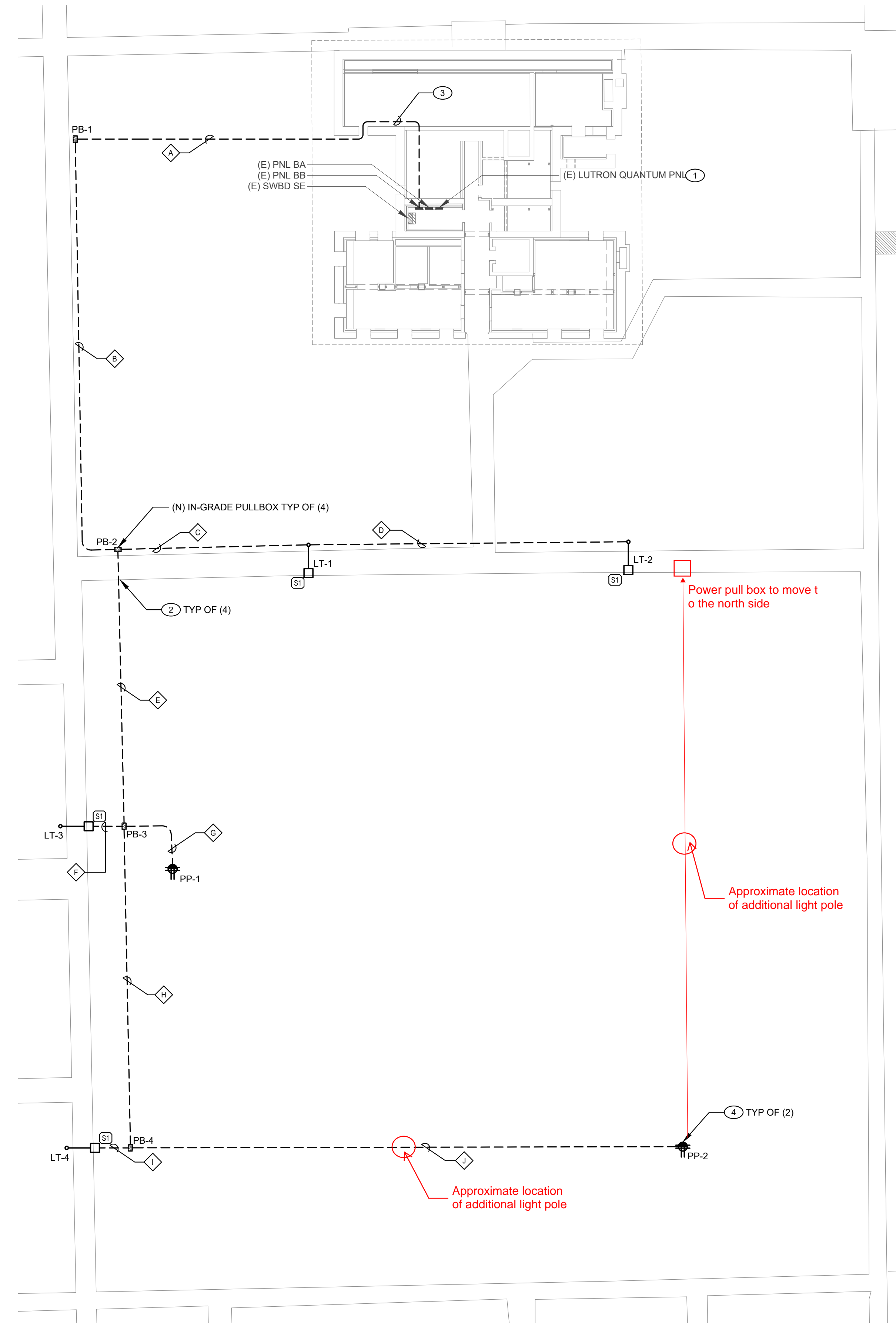




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GENERAL NOTES

- (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 811 FOR LOCATES PRIOR TO DIGGING. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
- THE MAXIMUM NUMBER OF CONDUIT BENDS SHOULD NOT BE GREATER THAN 270 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF ALL HORIZONTAL AND VERTICAL CHANGES.
- ALL CONDUIT, INNERDUCT, PULLBOXES AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
- EACH CONDUIT AND INNERDUCT SHALL BE PROVIDED WITH A 1250 LBS. PULL ROPE.
- COORDINATE LOCATION OF BELOW-GRADE CONDUITS, DUCT BANKS, ETC. WITH STATE PRESERVATION ARCHAEOLOGIST PRIOR TO ROUGH-IN.
- ALL RECEPTACLES WITH WEATHER PROOF DESIGNATION SHALL BE PROVIDED WITH 'WHILE IN USE' COVERS.
- PROVIDE #10 CU CONDUCTORS IN 3/4" CONDUIT MINIMUM, UNLESS NOTED OTHERWISE, FOR ALL SITE LIGHTING AND SITE RECEPTACLE CIRCUITS.
- REPAIR AND REPLACE ALL LANDSCAPING AND SITEWORK DISTURBED BY EXCAVATION INCLUDING BUT NOT LIMITED TO IRRIGATION LINES, LAWNS, PLANTING, SIDEWALKS, CONCRETE, PAVING, ETC.

SHEET NOTES

- ① PROVIDE PROGRAMMING MODIFICATIONS TO EXISTING SYSTEM TO FACILITATE NEW LIGHTING CONTROLS SEQUENCE. COORDINATE ALL REQUIREMENTS WITH OWNER.
- ② REMOVE SIDEWALK FOR ROUTING OF CONDUIT. PATCH AND REPAIR AS NEEDED TO MATCH EXISTING CONDITIONS.
- ③ NEW CONDUIT SHOWN ROUTED THROUGH THE BUILDING FROM 'PNL BB' SHALL BE ROUTED THROUGH ACCESSIBLE CRAWL SPACE OF THE BUILDING.
- ④ 2-GANG NEMA 3R POWER PEDESTAL LEVITON #2PH18-2S WITH (1) 20A WEATHER AND TAMPER RESISTANT GFCI AND (1) 20A WEATHER RESISTANT RECEPTACLE WITH TYPE-A AND C USB PORTS OR APPROVED EQUAL.

RACEWAY SCHEDULE

TAG	FROM	TO	CONDUIT	CIRCUIT
④	PNL BB	PULL BOX PB-1	(1) 1" C. WI (2) #8 & #8G (1) 1" C. WI (2) #8 & #8G	BB - (3,5)G BB - [29,N]G
④	PULL BOX PB-1	PULL BOX PB-2	(1) 1" C. WI (2) #8 & #8G (1) 1" C. WI (2) #8 & #8G	BB - (3,5)G BB - [29,N]G
④	PULL BOX PB-2	POLE LT-1	(1) 1" C. WI (2) #8 & #8G	BB - (3,5)G
④	POLE LT-1	POLE LT-2	(1) 1" C. WI (2) #8 & #8G	BB - (3,5)G
④	PULL BOX PB-2	PULL BOX PB-3	(1) 1" C. WI (2) #8 & #8G (1) 1" C. WI (2) #8 & #8G	BB - (3,5)G BB - [29,N]G
④	PULL BOX PB-3	POLE LT-3	(1) 1" C. WI (2) #8 & #8G	BB - (3,5)G
④	PULL BOX PB-3	POWER PEDESTAL PP-1	(1) 1" C. WI (2) #8 & #8G	BB - [29,N]G
④	PULL BOX PB-3	PULL BOX PB-4	(1) 1" C. WI (2) #8 & #8G (1) 1" C. WI (2) #8 & #8G	BB - (3,5)G BB - [29,N]G
④	PULL BOX PB-3	POLE LT-4	(1) 1" C. WI (2) #8 & #8G	BB - (3,5)G
④	PULL BOX PB-3	POWER PEDESTAL PP-2	(1) 1" C. WI (2) #8 & #8G	BB - [29,N]G

A ELECTRICAL SITE PLAN
E101 SCALE: 1/16" = 1'-0"

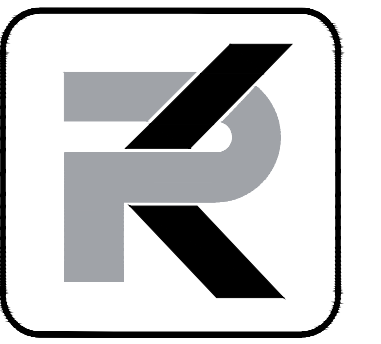
**PRELIMINARY
NOT FOR CONSTRUCTION**
FEBRUARY 2026

**EXTERIOR QUAD LIGHTING
STEWART FACILITY
#23-C21**
1 JACOBSEN WAY
CARSON CITY, NV 89701

REVISIONS	
SHEET TITLE	
ELECTRICAL SITE PLAN	
DRAWN:	MLS
CHECKED:	JEG
DATE:	02/10/26
JOB NUMBER:	25203
PROJECT MGR:	MLS

E101





PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING

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4600 DTC Blvd., Ste 740 | Denver, CO 80237 | 720-881-3906
8112 Maryland Ave., Ste 400 | Clayton, MO
pk-electrical.com | PK#24218

**Preliminary
Not For
Construction**

**EXTERIOR QUAD LIGHTING
STEWART FACILITY
#23-C21**
1 JACOBSEN WAY
CARSON CITY, NV 89701

REVISIONS

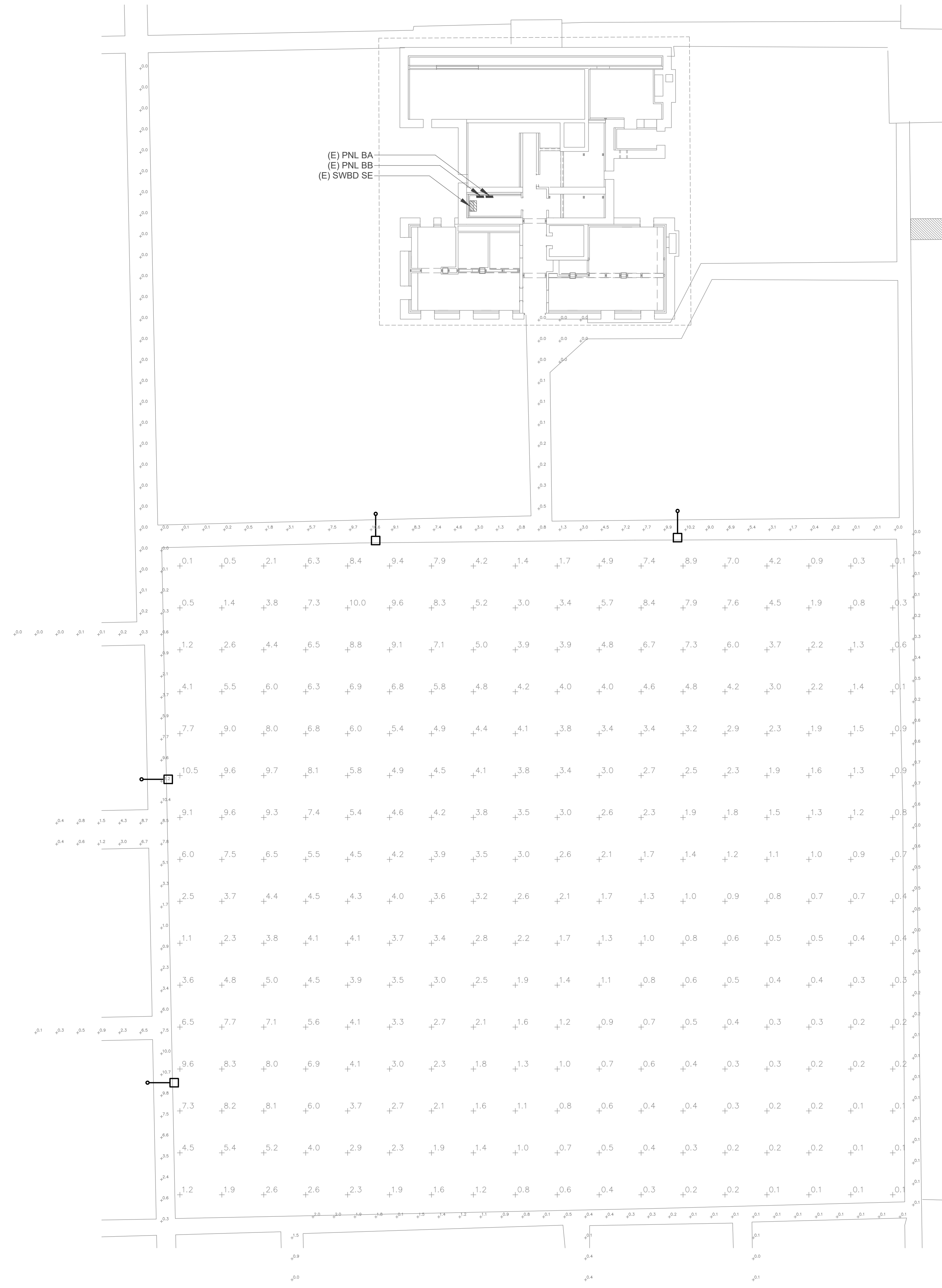
SHEET TITLE
ELECTRICAL SITE PHOTOMETRIC
PLAN

DRAWN: MLS
CHECKED: JEG
DATE: 02/10/26
JOB NUMBER: 25203
PROJECT MGR: MLS

E102

GENERAL NOTES

1. DRAWING ISSUED TO DISPLAY LIGHTING DENSITY WITHIN THE AREA OF WORK. REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES AND ADDITIONAL WORK REQUIRED.
2. THESE CALCULATIONS ARE BASE ON THE MANUFACTURER'S IES AND 0.9 LIGHT LOSS FACTORS.
3. ACTUAL ILLUMINATION LEVELS MAY DIFFER FROM THE CALCULATED FOOTCANDLE LEVELS SHOWN HERE DUE TO A VARIETY OF THE EXISTING FIELD CONDITIONS, SUCH AS EXISTING LIGHT POLE FIXTURES NEARBY, LIGHT DIRT DEPRECIATION, AND POSSIBLE FUTURE DEVELOPMENT.
4. OFF-SITE ILLUMINATION IS NOT PERMITTED. ALL ON-SITE LIGHTING IMPROVEMENTS WILL BE SUCH AS THERE IS NO LIGHT SPILL OUTSIDE OF THE PROPERTY BOUNDARY.
5. ALL LIGHTING SHALL BE FULL CUTOFF AND NO ILLUMINATION ABOVE 90 DEGREES.
6. THESE CALCULATIONS DO NOT INCLUDE LIGHTING ASSOCIATED WITH ANY OFF-SITE IMPROVEMENTS OR BUILDING IMPROVEMENTS OR EXISTING LIGHTING ON SITE.



A ELECTRICAL SITE PHOTOMETRIC PLAN
E102 SCALE: 1/16" = 1'-0"

**PRELIMINARY
NOT FOR CONSTRUCTION**
FEBRUARY 2026