



The Reno-Sparks Convention & Visitors Authority is soliciting a
Bid for
Reno Events Center Arena Lighting Retrofit
RFP 2024-OP02
PWP-WA-2024-382

Released by Amy Pickens, Project Manager
(Tuesday, May 14, 2024)

The Point of Contact is Amy Pickens, Project Administrator at
(775) 335-8839, or e-mail apickens@visitrenotahoe.com.

All questions or additional information concerning the Bid document must be submitted to the point of contact. No communication to any other staff or Board Member of the Reno-Sparks Convention & Visitors Authority regarding this Bid is allowed.

SUBMISSION DATE AND TIME: Wednesday, June 12, 2024, 2:00 PM (PDT)

Company Name: _____



TABLE OF CONTENTS

I. INTRODUCTION	4
II. SCHEDULE	4
III. SUBMISSION OF RESPONSE	5
IV. BIDDER'S CHECKLIST	6
V. PROPOSER INFORMATION.....	7
A. Company Information	7
B. Company Background	8
C. Nevada Contractor License Information	9
D. Business License Information.....	9
VI. SUBCONTRACTORS EXCEEDING 5% OF BID.....	10
VII. SUBCONTRACTORS EXCEEDING 1% OF BID AMOUNT.....	11
VIII. CERTIFICATION REGARDING DEBARMENT	12
IX. LOCAL PREFERENCE AFFIDAVIT	13
X. ACKNOWLEDGMENT AND EXECUTION	14
XI. PERFORMANCE BOND, PAYMENT BOND AND BID BOND	15
A. Performance Bond.....	15
B. Payment Bond.....	15
C. Bid Bond.....	15
XII. GENERAL TERMS AND CONDITIONS	15
A. The bidder agrees that.....	15
B. Addenda.....	16
C. Advertisements, Product Endorsements	16
D. Annual Appropriation of Funds.....	16
E. Brand Names	16
F. Business License Requirement	17
G. Compliance	17
H. Confidential Information.....	17
I. Conflict of Interest	17
J. Default of Agreement.....	17
K. Disputes	18
L. Document Ownership.....	18
M. Document Submittals.....	18
N. Evaluation and Recommendation, Selection and Agreement	18



O.	Exceptions	19
P.	Indemnification	19
Q.	Insurance	19
R.	Items Offered.....	21
S.	Late Bids, Modifications, or Withdrawals.....	21
T.	Lawful Performance	21
U.	Litigation Warranty	21
V.	Non-Discrimination.....	21
W.	Open Meeting Law.....	22
X.	Prevailing Wages.....	22
Y.	Apprenticeship Utilization Act.....	22
Z.	Protest	22
AA.	Signature.....	24
BB.	Submission of Responses	24
CC.	Tax Exemption	25
DD.	Venue.....	25
EE.	Withdrawal of Bids/Proposals.....	25
XIII.	BASE BID FORM	26
XIV.	5% BID BOND	33
	SCOPE OF WORK.....	35



I. INTRODUCTION

The Reno-Sparks Convention and Visitors Authority ("Authority") is currently accepting sealed responses from qualified Bidders (a "Bidder") for the provision of services, as set forth in this **RFP 2024-OP02, PWP-WA-2024-382.**

The Authority, an independent governmental entity, was established in February 1959 as the Washoe County Fair and Recreation Board. The Authority owns and/or operates the Reno- Sparks Convention Center, Reno Events Center, National Bowling Stadium, and the Reno- Sparks Livestock Events Center. The Authority is operating instrumentality in the Washoe County area for promoting conventions, tourism, and outdoor recreation.

This RFP is for a Lighting Retrofit in the Arena at the Reno Events Center.

II. SCHEDULE

Request for Proposals Available	Tuesday, May 14, 2024
Mandatory Pre-Bid Meeting	Thursday, May 23, 2024, 9:00AM (PDT)
Written Questions Due (if any)	Thursday, May 30, 2024, 3:00PM (PDT)
Written Responses to Questions Issued	Monday, June 3, 2024, 5:00PM (PDT)
Bid Responses Due	Wednesday, June 12, 2024, 2:00PM(PDT)
Bid Opening Time	Wednesday, June 12, 2024, 2:10PM(PDT)

A Mandatory Pre-Bid meeting will occur on May 23, 2024, 9:00 AM (PDT), at the Reno Events Center, 400 University Way, Reno, Nevada 89501.

Any irregularities or lack of clarity in this Bid should be brought to the attention of the Point of Contact prior to or on the date for Written Questions set forth in this Section for correction or clarification.

Any addenda to this Bid issued will forthwith become an integral part of this Bid. Bidder is required to acknowledge receipt of same by signing and returning the addenda in its response.



III. SUBMISSION OF RESPONSE

Bidder will submit its response to this Bid on the letterhead of its company, Bidder establishment, corporation, etc. attached to the original **RFP 2024-OP02, PWP-WA-2024-382** document. Bidder will sign and return the **ENTIRE BID DOCUMENT**, marked as **ORIGINAL**, with two (2) duplicate copies, and a flash drive together with any addenda.

Responses will be enclosed in a sealed envelope addressed to:

Reno-Sparks Convention Center
4590 S. Virginia St.
Reno, NV 89502
Attn: Amy Pickens

Or delivered to:

Reno-Sparks Convention Center
4590 S. Virginia St.
Reno, NV 89502
Attn: Amy Pickens

Response envelope must indicate name and address of Bidder, Bid number, and opening date.

In order for a response to be considered it will be mandatory that the response be in conformance with the terms and conditions of this Bid.



IV. BIDDER'S CHECKLIST

Bidders are instructed to complete and return the following items in order for their proposals to be complete. Failure to return all the items may result in your proposal being declared "non-responsive."

Proposer Information Requirements		Page	Completed
V.A.	Company Information	7	<input type="checkbox"/>
V.B.	Company Background	8	<input type="checkbox"/>
V.C.	Nevada Contractor License Information	9	<input type="checkbox"/>
V.D.	Business License Information	9	<input type="checkbox"/>
VI.	Subcontractors Exceeding 5% of Bid	10	<input type="checkbox"/>
VII.	Subcontractors Exceeding 1% of Bid	11	<input type="checkbox"/>
VIII.	Certification Regarding Debarment	12	<input type="checkbox"/>
IX.	Local Preference Affidavit	13	<input type="checkbox"/>
X.	Acknowledgment and Execution	14	<input type="checkbox"/>
XIII.	Base Bid Form	26	<input type="checkbox"/>
XIV.	5% Bid Bond	33	<input type="checkbox"/>
A	One Original Hard Copy		<input type="checkbox"/>
B	2 Duplicates		<input type="checkbox"/>
C	One master Flash Drive		<input type="checkbox"/>



V. PROPOSER INFORMATION

The following information must be completed, either typed or printed, and returned with the bid in accordance with the General Conditions contained herein.

A. Company Information

Company Name:
Contact Name:
Address:
City, State Zip Code:
Telephone Number:
Facsimile Number:
E-Mail:



B. Company Background

Has your company ever failed to complete any contracts awarded to it?
No ___ Yes ___ (If yes, please provide details.)

Has your company filed any arbitration request or lawsuits on contracts awarded within the last five years? No Yes (If yes, please provide details.)

Does your company now have any legal suits or arbitration claims pending or outstanding against it or any officers relating to the performance of a public contract?
No Yes (If yes, please provide details.)

Does your company now employ any officers or principals who were with another Bidder when that company failed to complete a contract within the last five years? No Yes (If yes, please provide details.)

Has your company had a contract partially or completely terminated for default (cause) within the past five years? No Yes (If yes, please provide details.)

Has your company been found non-responsible on a government bid within the last five years? No Yes (If yes, please provide details.)



C. Nevada Contractor License Information:

Prospective bidders will be required to have a current Contractor's License at the time of bid submittals under the Nevada State Law for the type of work specified herein.

License Number:
License Classification:
Limitation(s) of License:
Date Issued:
Date of Expiration:
Name of Licensee:
City, State, Zip Code:
Telephone Number:

D. Business License Information:

City of Reno
License Number:
License Expiration:
Name of Licensee (if different):

Or

Business License will be obtained after award.



VI. SUBCONTRACTORS EXCEEDING 5% OF BID

Pursuant to NRS 338.141, the Bidder must submit the following names of First-Tier Subcontractors who will provide to Bidder labor or a portion of the work or improvements for which Subcontractor will be paid an amount exceeding five percent (5%) of the bid price. The Bidder shall list the name of a Subcontractor for each portion of the work, the value of which exceeds five percent (5%) of the Bid price. **If Bidder will perform more than 5% of the work, BIDDER SHALL ALSO LIST HIS/HER NAME and description of the work that the prime contractor will perform in the space provided below.** If additional space is needed, attach a separate page.

Subcontractor Name	
Nevada License	Limit of License
Address	
Telephone	
Description of Work	
Subcontractor Name	
Nevada License	Limit of License
Address	
Telephone	
Description of Work	
Subcontractor Name	
Nevada License	Limit of License
Address	
Telephone	
Description of Work	

Bidder Name: _____ Authorized Signature: _____



VII. SUBCONTRACTORS EXCEEDING 1% OF BID AMOUNT

In compliance with NRS 338.141, Bidder submits the following names of First-Tier Subcontractors who will provide to Bidder labor or a portion of the work or improvements for which Subcontractor will be paid an amount exceeding one percent (1%) of the Bid or \$50,000, whichever is greater. The Bidder shall list the name of a Subcontractor for each portion of any of the work the value of which exceeds one percent (1%) of the Bid Price.

Since all Subcontractors listed on the Bidder’s 5% Subcontractor Information Form are over 1% of the Bid amount, those Subcontractors shall automatically be deemed incorporated into this 1% Subcontractor Information form and need not be re-listed below.

Information provided must be submitted within two (2) hours after the completion of the opening of the bids (Per NRS 338.141). Bidder shall enter “**NONE**” under “**Name of Subcontractor**” if not utilizing subcontractors exceeding this amount. This form must be complete in all respects. If additional space is needed, attach a separate page. The bidder may elect to submit this information with the bid proposal, and, in that case, the bidder will be considered as having submitted this information within the above two hours.

Subcontractor Name	
Nevada License	Limit of License
Address	
Telephone	
Description of Work	
Subcontractor Name	
Nevada License	Limit of License
Address	
Telephone	
Description of Work	

Bidder Name: _____ Authorized Signature: _____



VIII. CERTIFICATION REGARDING DEBARMENT

Certification Regarding Debarment, Suspension, And Other Matters

(This to be signed and returned at the time of bid)

The prospective bidder, _____ certifies to the best of its knowledge and belief that it and its principals:

- Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. Any exceptions provided will not necessarily result in denial of award but will be considered in determining bidder responsibility and whether or not the Authority will enter into contract with the party. For any exception noted, indicate on an attached sheet to whom it applies, initiating agency, and dates of action. Providing false information may result in criminal prosecution or administrative sanctions.

Signature:
Print Name:
Title:
Date:



IX. LOCAL PREFERENCE AFFIDAVIT

This form is required to receive a preference in bidding on projects exceeding \$100,000. This form must be submitted no later than two (2) hours following the opening of bids, only if the bidder wishes for their preferential status (established by their current Certificate of Eligibility) to be considered in the evaluation of bids. A copy of the bidder’s Certificate of Eligibility must be submitted at the time the contractor submits their bid.

I, _____, on behalf of the Contractor, _____, swear and affirm that in order to be in compliance with NRS 338.0117 and be eligible to receive a preference in bidding **RFP#2024-OP02, PWP-WA-2024-382 Reno Events Center Arena Lighting Retrofit** certify that the following requirement will be adhered to, documented, and attained on completion of the contract. Upon submission of this affidavit on behalf of _____, I recognize and accept that failure to comply with any requirements is a material breach of the contract and entitles the Authority to damages. In addition, the Contractor may lose their preference designation and/or lose their ability to bid on public works for a period of time, pursuant to NRS 338:

- The Contractor shall ensure at least 50 percent of workers employed on the public work possess a Nevada driver’s license or identification card;
- The Contractor shall ensure all vehicles used primarily for the public work will be registered and (where applicable) partially apportioned to Nevada;
- The Contractor shall ensure payroll records related to this project are maintained and available within the State of Nevada.

These requirements are not applicable to Contractors who do not use the “Bidder’s Preference” eligibility certificate in their bid or do not receive an advantage in ranking of bids due to their preference status.

Signature:
Print Name:
Title:
Date:



X. ACKNOWLEDGMENT AND EXECUTION

_____ (Name of Principal) being first duly sworn, deposes and says: That he/she is the Bidder, or authorized agent of the Bidder for whom the aforesaid described work is to be performed by; that he/she has read the Plans, Specifications, and related documents including but not limited to, any addenda issued and understands the terms, conditions, and requirements thereof; that if his/her bid is accepted that he/she agrees to furnish and deliver all materials except those specified to be furnished by the Authority and to do and perform all work for the bidding **RFP# 2024-OP02, PWP-WA-2024-382 Reno Events Center Arena Lighting Retrofit** together with incidental items necessary to complete the work to be constructed and/or services to be provided in accordance with the Specifications, Plans, and Contract Documents annexed hereto.

The undersigned, as Bidder, declares that the only persons or parties interested in this proposal, as principals, are those named herein, the Bidder is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid: that this proposal is made without collusion with any other person, firm or corporation; that he/she has carefully examined the location of the proposed work; the proposed form of Contract, the Contract Provisions, Plans, Specifications and Contract Documents incorporated therein referred to and made part thereof; that he/she proposes and agrees if this proposal is accepted, that he/she will contract with the Authority in the form of the Contract prescribed, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the Contract and annexed Contract Provisions, Plans and Specifications, in the manner and time prescribed and according to the requirements of the Project Representative as therein set forth, it being understood and agreed that the quantities shown herein are approximate only and are subject to increase or decrease, and that he/she will accept, in full, payment therefore the indicated prices.

Signature:
Print Name:
Title:
Date:



XI. PERFORMANCE BOND, PAYMENT BOND, AND BID BOND

All Bonding Companies must have an "A" rating or better with Moody's or A.M. Best Company and be included on the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bond and as Acceptable Reinsuring Companies" as published in circular 570 (as amended) by the audit staff, Bureau of Accounts, U.S. Treasury Department. (In other words, the company is T-listed.)

A. Performance Bond

The Contractor awarded this bid will be required to furnish the Authority with a surety bond conditioned upon the faithful performance of the contract. This may take the form of a bond executed by a surety company authorized to do business in the State of Nevada and approved by the Authority. The bond shall be in a sum equal to one hundred percent (100%) of the amount of the contract price. Such bond shall be forfeited to the Authority in the event that bidder receiving the contract shall fail or refuse to fulfill the requirements and all terms and conditions of the contract.

B. Payment Bond

The Contractor awarded this bid will be required to furnish the Authority with a payment bond. This may take the form of a bond executed by a surety company authorized to do business in the State of Nevada and approved by the Authority. The bond shall be in a sum equal to one hundred percent (100%) of the amount of the contract price. The bond must be solely for the protection of claimants supplying labor or materials to the contractor to whom the contract was awarded, or to any of his subcontractors, in the prosecution of the work provided for in such contract.

C. Bid Bond

A bid deposit in an amount equal to at least 5% of the bid is required as a bid security by the Authority. The bid security may only be in cash, cashier's check, certified check or bid bond. Checks must be made payable to the Reno-Sparks Convention and Visitors Authority. If the bid security is a bond, it shall be executed by a surety insurer authorized to issue surety bonds in the State of Nevada. The bid security must be executed by the bidder and enclosed with the bid proposal in the sealed bid envelope.

XII. GENERAL TERMS & CONDITIONS

A. The bidder agrees that

Bidder has carefully examined the specifications, and all provisions relating to the item(s) to be furnished or the work to be done; understands the meaning, intent, and requirements; and

Bidder will enter into a written Agreement and furnish the item(s) or complete the work in



the time specified, and in strict conformity with the Reno Sparks Convention and Visitors Authority's specifications for the prices quoted.

No communication to any other staff or Board Member of the Authority regarding this Bid is allowed, except through the designated point of contact, and any such communication initiated by the Bidder may result in a disqualification of the Bidder.

Note: Bidder is defined as any individual, partnership, or corporation submitting a bid, proposal, or quotation in response to a request for bid (Bid), request for proposal (RFP), request for information (RFI) or request for qualification (RFQ). A Bidder may also be referred to as a bidder, contractor, proposer, supplier, or vendor.

The use of the title "Bidder", "Contractor", "Consultant", "Proposer", or "Vendor" within this solicitation document and any resulting Agreement shall be deemed interchangeable and shall refer to the person or entity with whom the Authority is soliciting and/or contracting for the service or product referenced within the bid document.

B. Addenda

The effect of all addenda to the bid documents shall be considered in the bid and said addenda shall be made part of the bid documents and shall be returned with them. Before submitting a bid, each Bidder shall ascertain whether or not any addenda have been issued, and failure to acknowledge any such addenda may render the bid invalid and result in its rejection.

All potential Bidders are responsible for monitoring the Authority website regarding the availability of new bid documents or addenda (where applicable). The Authority will not be responsible for the results of any potential failures in automatic notification systems to potential Bidders or plan holders with respect to these documents and will not adjust bid schedules or requirements due to any potential failures of those systems.

C. Advertisements, Product Endorsements

Authority employees are prohibited from making endorsements, either implied or direct, of commercial products or services without written approval of the Authority President/CEO.

D. Annual Appropriation of Funds

In the event the Authority fails to obligate requisite funds for the ensuing fiscal year(s) for payment of amounts due against an agreement resulting from this Request for Proposal, necessitating cancellation of the Agreement, the successful Bidder(s) shall agree to hold the Authority free from any charge or penalty.

E. Brand Names

The herein contained technical information shall in no manner be construed as restrictive as to the manufacturer, process or point of origin. References appearing restrictive shall be



deemed inadvertent or employed as a descriptive device to delineate as to the quality, or configuration.

Offers made as an alternate to those specified shall be given consideration in the evaluation process provided said alternatives shall be fully described using brochures, specifications, literature, or any combination thereof, accompanying and deemed an integral portion of the Bidder's response.

The Authority shall solely determine the acceptability of all offerings.

F. Business License Requirement

All companies doing business with the Authority are required to obtain and maintain a current business license from the appropriate jurisdiction prior to the commencement of work. Bidder(s) awarded an Agreement resulting from this bid shall be required to obtain a current business license if they do not already possess one.

G. Compliance

All material and work performed shall comply with standing Federal, State, and Local Codes and Regulations, including but not limited to Occupational Safety and Health Act, Americans with Disabilities Act, etc.

H. Confidential Information

Any information deemed confidential or proprietary should be clearly identified by the Bidder as such. It may then be protected and treated with confidentiality only to the extent permitted by state law. Otherwise, the information shall be considered a public record. Information or data submitted with a bid will not be returned.

I. Conflict of Interest

No Authority employee or member of the employee's immediate family, may participate directly or indirectly in the procurement process pertaining to this bid if they:

- Have a financial interest or other personal interest that is incompatible with the proper discharge of their official duties in the public interest or would tend to impair their independence, judgment, or action in the performance of their official duties.
- Are negotiating for or have an arrangement concerning prospective employment with Bidder. The Bidder warrants to the best of his knowledge that the submission of the bid will not create such conflict of interest.

J. Default of Agreement

In case of default by the successful Bidder, the Authority may procure the product(s) or service from other sources and hold the Bidder responsible for any excess cost occasioned thereby.



If necessity requires the use of materials or supplies not conforming to the specifications, they may be accepted, and payment therefore shall be made at a proper adjustment in price.

Default by the Bidder in any manner including failure or refusal to furnish any product(s) or service at the price and/or the time specified may be considered cause to commence with proceedings against any surety held or assess a penalty equal to five (5) percent of the total proposal price.

K. Disputes

All disputes under this proposal shall be submitted to binding arbitration in accordance with the procedures of the Commercial Rules of the American Arbitration Association and judgment of the arbitrator shall be binding as a final judgment and shall be entered by a court of competent jurisdiction. Such arbitration shall be conducted in Washoe County, Nevada. The procedures specified herein shall be the sole and exclusive procedure for resolution of disputes arising out of or relating to this proposal except those instances otherwise overseen by the governing law of the State of Nevada.

L. Document Ownership

All technical documents and records originated or prepared pursuant to this Agreement, including papers, reports, charts, and computer programs, shall be delivered to and become the exclusive property of the Authority and may be copyrighted by the Authority. Bidder assigns all copyrights to Authority by undertaking this agreement.

M. Document Submittals

It should be noted that the documents submitted by prospective Bidders are competitive sealed proposals and not competitive sealed bids. When proposals are opened, prices and other information will not be made public until the proposal is awarded. There shall be no disclosure of any Bidder's information to competing Bidders prior to the award of the proposal.

Upon award of the Agreement, the executed Agreement and proposals will become public information. Accordingly, each proposal should be submitted on the vendor's most favorable terms from a price and technical standpoint.

N. Evaluation and Recommendation, Selection and Agreement

The Authority reserves the right to waive any informalities or irregularities.

The Authority reserves the right to alter, amend, or modify any provisions of this Bid, or to withdraw this Bid, at any time prior to the award of an Agreement pursuant hereto.

The Authority reserves the right to hold responses for a period of ninety (90) days from the date of opening before awarding or rejecting said responses.

Severability exists with regard to acceptance or rejection of any item, group of items, or



section unless the Bidder has stipulated specific limitations.

Once a final selection has been made as described above, the Authority will work with the Bidder on preparing an Agreement (the "Agreement") for execution, which will set forth the terms and scope of the engagement of the selected Bidder, including, but not be limited to, the terms set forth in this Bid. If the Authority and the selected Bidder have not executed a negotiated agreement within fifteen (15) business days after selection by the Authority, the Authority may terminate negotiations with that selected Bidder and may initiate negotiations with an alternative Bidder.

No Agreement may be assigned to any other person or entity.

Upon notification of selection and full execution of the Agreement, the Bidder selected must be duly licensed to conduct business in the State of Nevada, Washoe County, and the City of Reno. Proof of certificates, licenses, and permits must be submitted to the Authority Finance Department before work can begin. Cost of all required certificates, licenses, and permits are the responsibility of the Bidder.

O. Exceptions

A Bidder deviating from specifications must specify any and all deviation(s). Failure to note said exceptions shall be interpreted to convey that the Bidder shall propose to perform in the manner described and/or specified in this bid solicitation. If exception(s) are taken or alternatives offered, complete descriptions must be shown separately.

P. Indemnification

The Bidder hereby agrees to indemnify and to save and hold harmless the Authority and their agents from any and all claims, actions, costs, expenses, (including attorney's fees), liability, damages or payments incurred by reasons of any bodily injury including death or property damage resulting from the Bidder's operations.

Q. Insurance

The Agreement contemplated by this Bid will require that the successful Bidder shall procure and maintain, at its sole expense the following minimum insurance coverage:

Commercial General Liability. Commercial General Liability at least as broad as Insurance Services Office policy form CG 00 01 04/13, or equivalent, providing coverage on an occurrence form for Bodily Injury, Property Damage, Liquor Liability, Independent Proposers, Personal Injury, Broad Form Property Damage, Broad Form Contractual Liability and Medical Payments. The limits of liability shall not be less than Two Million Dollars (\$2,000,000) per occurrence, Four Million Dollars (\$4,000,000) general aggregate for both bodily injury and property damage.

The policy shall include the Authority and its agents, beneficiaries, partners, employees, the County of Washoe, and the Authority of Reno as additional insureds including coverage for premises/operations and products/completed operations with coverage at least as broad as Insurance Services Office (ISO) endorsement form CG 20 10 12/19 and CG 20 37 12/19.



The policy shall provide that coverage is provided on a primary basis, not excess or contributing with or secondary to any other insurance as may be available to the additional insureds.

Proposer waives all rights against the Authority, and its agents, beneficiaries, partners, employees, the County of Washoe, and the Authority of Reno any other Indemnitees listed in this this Agreement for recovery of damages to the extent these damages are covered by the commercial general liability or commercial umbrella liability insurance maintained pursuant to this agreement. Proposer's insurer shall endorse CGL policy to waive subrogation against with respect to any loss paid under the policy.

Automobile Liability. Automobile Liability at least as broad as Insurance Services Office Business Auto Coverage Form CA 00 01 04/13, or equivalent, providing coverage for Bodily Injury and Property Damage resulting from the ownership, maintenance, or use of any auto, whether owned, rented or hired or non-owned. The limit of liability shall not less than One Million Dollars (\$1,000,000) combined single limit (CSL) for bodily injury and property damage.

Workers' Compensation and Employer's Liability. Workers' Compensation at least as broad as National Council on Compensation Insurance (NCCI) policy form WC 00 00 00 C 01/15, or equivalent, providing coverage meeting the requirements of the Workers' Compensation law of the State of Nevada. To the extent such waivers are obtainable from the insurance carriers, the policy shall include an endorsement waiving the insurance company's rights of subrogation against the Authority, its agents, beneficiaries, partners, employees, the County of Washoe, and Authority of Reno. This endorsement shall be at least as broad as National Council on Compensation Insurance (NCCI) Waiver of Our Right to Recover from Others Endorsement form WC 00 03 13 04/84.

Property. Property insurance on an All-Risk or Special Form providing coverage for personal property of the Bidder.

Blanket Employee Dishonesty Coverage. The Proposer shall maintain crime insurance including coverage for the loss of money, securities, and other property by the Proposer's employees, sub-contractors, or other parties with a limit not less than \$1,000,000 per occurrence. Coverage shall be endorsed to include coverage for loss of money, securities and other property in the care, custody, or control of Proposer whether in transit or at a permanent or temporary premises.

Form of Coverage. All such insurance maintained by the Bidder shall be: issued by insurance companies authorized to do insurance business in the State of Nevada, issued by insurance companies with current A.M. Best financial ratings of at least A X or better satisfactory in form and substance to Authority.

All insurance and bond shall provide that the policy shall not be cancelled, nor shall coverage be reduced thereunder until after thirty (30) days written notice to the Authority at Reno-Sparks Convention & Visitors Authority, Post Office Box 837, Reno, Nevada 89504-0837.

The Bidder shall deposit each policy or a certificate thereof with Authority no less than thirty



(30) days prior to the start of the agreement date.

R. Items Offered

If the item offered by the Bidder has a trade name, brand and/or catalog number, such shall be stated in the bid. If the Bidder proposes to furnish an item of a manufacturer or vendor other than that mentioned on the face hereof, Bidder must specify maker, brand, quality, catalog number, or other trade designation. Unless such is noted on the bid form, it will be deemed that the item offered is that designated even though the bid may state "or equal".

S. Late Bids, Modifications, or Withdrawals

Bids, modifications of bids, or bid withdrawals received after the exact time and date specified for receipt will not be considered.

Within the scope of this proposal, the Authority shall be held harmless in any and all transactions between the Bidder and the other participating governmental entities.

T. Lawful Performance

Vendor shall abide by all Federal, State and Local Laws, Ordinances, Regulations, and Statutes as may be related to the performance of duties under this agreement. In addition, all applicable permits and licenses required shall be obtained by the vendor, at vendor's sole expense.

U. Litigation Warranty

The Bidder, by bidding, warrants that Bidder is not currently involved in litigation or arbitration concerning the materials or Bidder's performance concerning the same or similar material or service to be supplied pursuant to this Agreement of specification, and that no judgments or awards have been made against Bidder on the basis of Bidder's performance in supplying or installing the same or similar material or service, unless such fact is disclosed to the Authority in the bid. Disclosure may not disqualify the Bidder. The Authority reserves the right to evaluate bids on the basis of the facts surrounding such litigation or arbitration and to require Bidder to furnish the Authority with a surety bond executed by a surety company authorized to do business in the State of Nevada and approved by the Authority in a sum equal to one hundred percent (100%) of the Agreement price conditional on the faithful performance by Bidder of the Agreement in the event the bid is awarded to Bidder, notwithstanding the litigation or arbitration.

V. Non-Discrimination

No Bidder providing a service, program, or activity to the public on behalf of the Authority shall discriminate against any person because of sex, race, color, creed, national origin or disability, and shall comply with the Americans with Disability Act and Authority's policies pursuant thereto when providing said service, program or activity.

The Authority is an Affirmative Action/Equal Opportunity Employer. Bidders shall be cognizant



of the requirements for compliance with Executive Order 11246, entitled "Equal Employment Opportunity" as amended by Executive Order 11375 and as supplemented in regulations of the U.S. Department of Labor (41 CFR part 60).

The Contractor and any Subcontractors will comply with the requirements set forth in Nevada Revised Statutes Chapter 338 regarding public works, including, but not limited to, the provisions of NRS 338.125 which provides that the Contractor and Subcontractors may not discriminate in any of their employment practices.

W. Open Meeting Law

NRS 241 provides that public business will be conducted in open meeting.

X. Prevailing Wages

Bidder is responsible for complying with all applicable local, State and Federal wage laws, whether or not specifically cited in this bid document.

Per NRS Sections 338.020 through 338.090, certain projects defined as "public works" require the payment of the prevailing wage as determined by the Labor Commissioner. Projects/contracts for construction of a public work valued at less than \$100,000 are exempt from the prevailing wage requirement (NRS 338.080). Bidder shall be fully aware of the prevailing wage requirements of the State of Nevada as detailed in NRS Chapter 338 and price their bid response accordingly, where applicable. Further information concerning Prevailing Wage rates can be found at: publicworks@labor.nv.gov

Y. Apprenticeship Utilization Act

Senate Bill 207 passed during the 2019 Legislative Session added sections 338.0116 and 338.01165 to the NRS. These new provisions apply to bids for public works where the value exceeds \$100,000.00. In passing SB 207, The Legislature hereby finds and declares that: (1) A skilled workforce in construction is essential to the economic well-being of the State; (2) Apprenticeship programs are a proven method of training a skilled workforce in construction; and (3) Requiring the use of apprentices on the construction of public works will ensure the availability of a skilled workforce in construction in the future for this State.

Guidelines may be found at: <https://www.leg.state.nv.us/Session/80th2019/Bills/SB/SB207.pdf>

Z. Protests

Pre-Opening Protests: Any protest based upon restrictive specifications or alleged improprieties by the Authority, which are apparent prior to proposed opening including, without limitation, these protest procedures, shall be submitted to the Authority at least seven (7) days prior to the submission opening date. Three (3) copies of any pre-opening protests must be delivered to Reno-Sparks Convention & Visitors Authority, 4065 South Virginia Street, Suite 100, Reno, Nevada 89502, Attention: Jose Martinez. All protests must be in writing to be considered and shall specify in detail the grounds for the protest and the facts and law supporting the protest. All pre-opening protests will be resolved by the Authority prior to the submission opening. The Authority Finance Department will issue a written decision specifying the grounds for granting or denying the pre-opening protest. If a protest is granted, the



proposed opening date may be postponed and an Addendum issued or, at the sole discretions of the Authority, the Authority may cancel the bid. If the protest is denied, submissions will be received and opened on the scheduled opening date in the same manner as if no protest had been filed.

Appeal by Unsuccessful Bidder: Any protest from an unsuccessful proposer must be submitted prior to award by the Board as established in NRS 332.068. Bidder must submit a written appeal in accordance with the requirements set forth herein to the Finance Department within five business days from the date of the letter notifying of intent to award.

The appellant must post a bond with the written appeal with good and solvent surety authorized to do business in the State of Nevada in an amount equal to 25% of the value of the contract in order to have their appeal heard by the Board. Any and all bonds are subject to the approval of the Board's Attorney. In the event the appeal is not upheld by the Board, a claim may be made against the bond in an amount equal to the expenses incurred and other monetary losses suffered by the Authority because of the unsuccessful appeal.

The route of appeal is the Vice President of Finance then the President/CEO, or designee, and must be followed sequentially. No Bid protests will be heard by the Board unless the proposer has followed the appeal process route.

Claims Against Protest Bonds:

The Authority shall not make a claim upon any bond or other security unless and until the basis of that claim is considered and approved by the Board. The Authority may:

- Claim its regular staff time and costs in processing, considering and/or defending against an award protest.
- Claim any necessary extraordinary staff overtime incurred in processing, considering and/or defending against an award protest.
- Claim the Authority's Attorney time and costs in processing, considering and/or defending against an award protest.
- Claim any resulting fees and costs incurred to any independent contractors, consultants or contracted attorneys utilized in processing, considering and/or defending against an award protest.
- Claim any lost expenditure savings, lost revenue and other consequential financial damages resulting from the protest's automatic stay of the award of an Agreement to a selected solicitation response.
- Claim any lost gifts, lost grants or other lost government or private financial participation resulting from any delay caused by the protest's automatic stay of the award of an Agreement to a selected solicitation response.

Protest Bond Risk Inquiry—Procedure:

As soon as possible after an award protester has posted a protest bond or other security, the soliciting Authority department or agency shall provide a written non-binding estimate of the basis of potential claims unique to the circumstances of the Agreement award(s) stayed by the protest, without disclosing any bid information that must remain confidential until an award decision is final. From this estimate, the protester shall be responsible for calculating the risk(s) of proceeding with a protest to a final decision by the Board. A protester may



withdraw a protest in writing at any time prior to a decision of the Board, but any withdrawal more than seven (7) calendar days after the issue date of the Authority's estimate of the basis of potential claims shall, upon Board's approval of the claims, be subject to claims against the bond or other security of the withdrawing protestor prior to its return to the protestor.

AA. Signature

All bids shall be signed, and the title and Bidder name indicated. A bid by a corporation shall be signed by an authorized officer, employee, or agent with his or her title.

BB. Submission of Responses

The Authority assumes no responsibility for errant delivery of responses, including those relegated to a courier agent who fails to deliver in accordance with the submission time/date and address requirements.

The Authority will not be responsible for the premature opening of responses which are not properly addressed or identified.

The Authority will not accept a response submitted by telephone, telegraphic notice, facsimile, or e-mail.

Bidder will furnish the required information typed or written in ink.

The person signing the response must initial erasures or other changes in ink.

In the spaces provided, a duly authorized representative of the Bidder will sign this Bid document.

Bidder will proofread its response carefully for errors.

In the event of a difference between written words and figures, the amount stated in written words will govern.

In the event of a difference between unit price and extended price, the unit price will govern.

The Authority is not liable for any costs incurred by Bidder prior to entering into the final Agreement. Costs of developing the qualifications or any other such expenses incurred by the Bidder in responding to this Bid are entirely the responsibility of the Bidder, and shall not be reimbursed in any manner by the Authority.

Respondent shall be responsible to ensure they have complied in all respects with the provisions of NRS 338.141 regarding listing of general contractors and/or subcontractors who will perform any work on the project. Failure of Respondent to comply with the provisions of NRS 338.141 will result in rejection of Respondent's bid.

Respondent shall bear the responsibility to ascertain the relevancy of the "preference for certain contractors" referenced in NRS 338.147. Respondents claiming preference shall submit with their Bid the "Certificate of Eligibility" issued by the State of Nevada Contractor's Board



as proof of Contractor's compliance with the provisions of NRS 338.147. Failure to submit the Certificate of Eligibility with the sealed Bid shall result in the waiver of any bidder preference. In the event Respondent claims a bidder preference pursuant to NRS 338.147, the RSCVA strongly encourages Respondent to deliver to the RSCVA an affidavit satisfying the requirements of NRS 338.0117 with the Bid response. However, pursuant to NRS 338.147(2)(a)(3) the Respondent may deliver the foregoing affidavit up to two (2) hours after the opening of the bids, all as set forth in NRS 338.147(2)(a)(3). Failure to timely submit the foregoing affidavit shall result in a waiver of any bidder preference.

Bidder has carefully examined the specifications, and all provisions relating to the item(s) to be furnished or the work to be done; understands the meaning, intent, and requirements.

CC. Tax Exemption

The Authority is a tax-exempt public entity and is not generally subject to federal excise, state, or local taxes. The Authority is specifically limited in its payment of sales tax per NRS 372.325. No additional taxes may be added or "passed through" as a result of any agreement.

DD. Venue

This agreement shall be governed by and interpreted according to the laws of the State of Nevada, and venue for any proceeding shall be in Washoe County.

EE. Withdrawal of Bids/Proposals

Bids/Proposals may be withdrawn by written or facsimile notice received prior to the exact hour and date specified for receipt of bid. A bid/proposal may also be withdrawn in person by a Bidder, or Bidder's authorized representative, prior to the exact hour and date set for receipt of bids. Telephone withdrawals are not permitted.



XIII. BASE BID FORM

Project: 2024-OP02, PWP-WA-2024-382

Project Title: 2024-OP02 Reno Events Center - Arena Lighting Retrofit Reno,
Nevada 89501
Project No. 2024-OP02

Owner: Reno-Sparks Convention and Visitors Authority
4065 S. Virginia St. Suite 100
Reno, Nevada 89502

Amy Pickens
Telephone No. 775.335.8839
E-mail: apickens@visitrenotahoe.com



BID FORM

To: Reno-Sparks Convention and Visitors Authority

Name of Bidder: _____

Date of Bid: _____

1.01 Pursuant to and in compliance with the Invitation to Bid and the Bidding Documents relating to the construction of:

Reno Events Center RFP# 2024-OP02
PWP-WA-2024-382
Arena Lighting Retrofit
400 University Way
Reno, Nevada 89502

Including Addenda _____

The undersigned, having become thoroughly familiar with the terms and conditions of the Bidding Documents and with local conditions affecting the performance and cost of the work at the place where the work is to be completed and after having been given ample opportunity to fully inspect the site in all particulars, hereby proposes and agrees to fully perform the work, including furnishing any and all labor, materials, services, equipment and all applicable taxes necessary to construct and complete said work in accordance with the Contract Documents, for the following sum(s) of money:

A. **Base Bid:** Reno Events Center Arena Lighting Retrofit.

_____ Dollars (\$ _____)



B. Performance Bond and Payment Bond

1. This bid includes the cost of a Performance Bond and Payment Bond. By signing and submitting this bid, the Bidder certifies that they will furnish these bonds in amounts sufficient to cover the total proposed cost of the work, including Base Bid and all Alternates. The bonds shall be amended and maintained current with all contract Change Orders.
2. The cost of these bonds is _____% of the total proposed cost of the work, including Base Bid and all Alternates.

C. Bid Bond

1. Accompanying this bid is a bid bond as specified in Section **XI**. Instructions to Bidders, payable without condition to the Owner, equaling no less than 5% of the total proposed cost of the work, including the Base Bid and all Alternates. It is agreed that the bid security will be the measure of liquidated damages which the Owner will sustain by failure, neglect, or refusal of Bidder to deliver the signed contract, bonds, and required insurance documentation within ten days after notification of contract award is made by the Owner.

D. Change Orders

1. The following fees shall be used for lump sum pricing and actual cost pricing of additions and deletions to the work required by the Contract Documents. The following fees are not applicable for unit price-based change orders; and shall not be applied to hourly rates or pricing to which overhead and profit have been included, or to taxes.
 - a. For any additions to the work authorized by the Owner:

The contract sum shall be revised to include the actual cost of the work required for such additions plus
percent (_____%).
 - b. For deletions from the work authorized by the Owner:

The contract sum shall be reduced by an amount equal to the cost savings realized for work not performed by reason of such deletions plus
_____ percent (_____%).



- E. Time of Commencement, Completion and Damages
1. Awarded Bidder will work with point of contact on scheduling times to be in the Reno Events Center Arena. The Lighting Install will need to operate around the current Reno-Sparks Events Center, events calendar.
 2. Final completion, including delivery of all closeout submittals and warranties, shall be achieved within _____ calendar days after achieving substantial completion.
 3. In submitting this bid, the Bidder assures the Owner that availability of labor, material, equipment, services, and other necessary resources are available.

1.02 By signing this bid, the Bidder certifies the following:

- A. All information submitted on this bid form is accurate and true to the best of the Bidder's knowledge, and the Bidder has performed due diligence as necessary to provide responsible information.
- B. This bid has been arrived at independently without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor.
- C. This bid is in compliance with all local, state, and applicable codes.
- D. The Bidder and any proposed Subcontractors are duly licensed with all applicable authorities having jurisdiction, as required to legally perform the work described by the Bidding Documents at the project location.
- E. The Bidder will maintain strict confidentiality with respect to information submitted on this bid form, any project-related documents obtained during the bidding process, photographic or video images of the site, project-related emails or other correspondence, or information learned through visual review of the facility or project site.
- F. Bidder will comply with the terms of any confidentially agreements made with the Owner during the bidding of this project, as applicable.
- G. This bid shall remain open and not be withdrawn for a period of 90calendar days from the date prescribed for its opening.
- H. If the Owner provides written notice of award to the undersigned within 90 calendar days, the Bidder shall execute and deliver the signed contract agreement, Performance Bond, Payment Bond, required insurance documentation, and any other submittals as specified in the Bidding Documents, together, all within ten calendar days after the Owner issues the notice of award.



- I. The Bidder is an equal opportunity employer, and does not discriminate, and will take "affirmative action" measures to ensure against discrimination in employment, recruitment, advertisements for employment, compensation, termination, upgrading, promotions, and other conditions of employment against any employee or job applicant on the bases of race, creed, color, national origin, sex, or any other legally protected characteristics. No person will be adversely affected in employment with the employer as a result of bringing complaints of unlawful discrimination.
- J. The Bidder provides a work environment that is free from harassment based upon an individual's sex, race, ethnicity, national origin, age, religion or any other legally protected characteristics. All employees, including supervisors and other management personnel, are expected and required to abide by this policy. No person will be adversely affected in employment with the employer as a result of bringing complaints of unlawful harassment.

1.03 By signing this bid, the Bidder implies their understanding of the following conditions:

- A. The Owner reserves the right to reject any and all bids, waive irregularities or technicalities in any bid, and accept any bid in whole or in part which it deems to be in its best interest.
- B. If notice of award is issued after 90 calendar days from the bid due date, the Bidder shall have the right to either accept the contract or withdraw their bid, without penalty.

1.04 The name(s) and title(s) for all persons interested in the foregoing bid as principal(s) are:

Note: *If Bidder is a corporation, provide names of president, controller, and secretary; if a partnership, and names of all individual co-partners composing the firm; if Bidder or other interested person is an individual, give first and last names in full.*

Name	Title
_____	_____
_____	_____
_____	_____
_____	_____



1.05 Notice of award or requests for additional information may be addressed to the undersigned at the address set forth below.

1.06 The Legal Name, State of Incorporation, Address, Contact Information, and Federal Tax Identification Number for the Bidder are:

Note: *If Bidder is a corporation, provide legal name of corporation, state where incorporated, together with the address and contact information and signature of the officer authorized to sign contracts on behalf of the corporation. If Bidder is a partnership, provide legal name of firm, together with the address and contact information and signature(s) of the partner(s) authorized to sign contracts on behalf of the partnership.*

Legal Name of Bidder:

State of Incorporation:

Business Address:

Telephone Number:

E-mail Address:

Federal Tax ID Number:



1.07 Signature of Authorized Bidder Representative

Signature: _____

Typed Name: _____

Title: _____

Date: _____

-End of Section-



XIV. RENO-SPARKS CONVENTION AND VISITORS AUTHORITY – 5% BID BOND

KNOW ALL MEN BY THESE PRESENTS: That we the undersigned
_____, as "Principal," and
_____, as "Surety," are
hereby held and firmly bound unto the Reno-Sparks Convention and Visitors Authority,
as "Obligee," in the penal sum of
_____dollars (\$_____) for the payment of which, well and truly to be
made, the Principal and Surety bind themselves, their heirs, executors, and
administrators, successors, and assigns, jointly and severally, by this instrument.
The condition of the obligation of this bid bond is as follows:

WHEREAS NRS 332.105 authorizes local governments to require bid bonds to ensure
execution and proper performance of the Contract and the Bonding Company has an
"A" or better rating with Moody's or A.M. Best and T-Listed with the U.S. Treasury
Department;

AND, WHEREAS, the Principal has submitted a bid for Bid # **2024-OP02, PWP-
WA-2024-382** for the **RENO EVENTS CENTER - Arena Lighting Retrofit**

NOW, THEREFORE,

- (a) If said Bid shall be rejected; or
- (b) If said Bid shall be accepted and the Principal shall execute and deliver the contract in the bid documents ("Contract") to Obligee in accordance with the terms of the bid documents, and give such bond or bonds as may be specified in the bid or contract documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or
- (c) If the Principal shall pay to the Obligee the full amount of the bid bond as a penalty irrespective of the Obligee's actual damages in the event of the failure of the Principal to enter into such Contract and give such bond or bonds, then, this obligation shall be null and void. Otherwise, it shall remain in full force and effect, it being expressly understood and agreed that the liability of the Surety (but not of the Principal) for any and all claims hereunder shall, in no event, exceed the penal amount of the obligation as herein stated. The Surety, for the consideration for which this bond was executed, hereby stipulates, and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Obligee may accept such bid, and hereby waives notice of any such extension.



IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and the Surety has caused their seal to be hereto affixed and these present to be signed by their proper officers.

Signed, Sealed, and dated: _____

Principal
By: _____

Surety
By: _____



Scope of Work

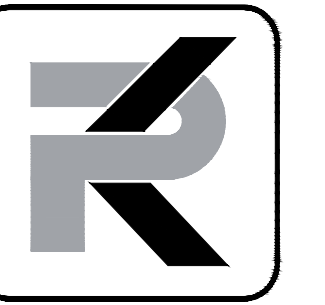
Arena Lighting Retrofit RFP 2024-OP02 PWP-WA-2024-382 Reno Events Center 400 University Way Reno, NV 89501

This project is a lighting retrofit for the Reno Events Center Main Event Hall in downtown Reno. There are approximately (250) 500W dimmable quartz fixtures and (144) 400W metal halide fixtures currently on within the event space. The existing quartz fixtures will be replaced in an approximate 1-to-2 alternating configuration based on calculated lighting levels. The existing metal halide fixtures will be demolished in their entirety (existing circuiting to remain retired in place). Existing normal power and emergency power circuiting and controls shall remain with modifications to the existing quartz lighting circuit only. Existing lighting control system (Lutron) within the space of renovation shall remain controllable via a lighting control booth and manual keyed switching within the space itself.

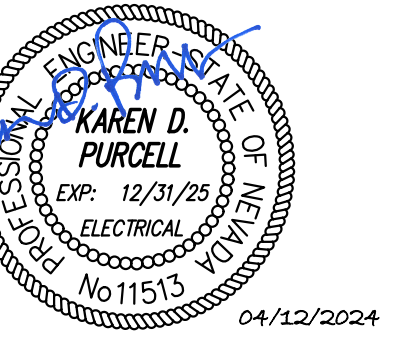
RSCVA RENO EVENT CENTER LIGHTING RETROFIT UPGRADE

400 North Center Street
Reno, NV 89501

Construction Documents
April 12, 2024



PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3290
pk-electrical.com | PK# 830001



**RSCVA CONVENTION CENTER
ELECTRICAL SERVICE UPGRADE**
 4590 SOUTH VIRGINIA STREET
 RENO, NV 89502

SITE MAP	OWNER	DRAWING SCHEDULE																																								
	<p>RSCVA Reno Event Center 400 North Center Street Reno, NV 89501</p>	<table border="1"> <thead> <tr> <th>SHEET</th> <th>DESCRIPTION</th> <th></th> </tr> </thead> <tbody> <tr> <td>60.1</td> <td>COVER SHEET</td> <td>•••••</td> </tr> <tr> <td>E0.1</td> <td>ELECTRICAL LEGEND</td> <td>•••••</td> </tr> <tr> <td>E0.2</td> <td>ELECTRICAL SPECIFICATIONS</td> <td>•••••</td> </tr> <tr> <td>E0.3</td> <td>IECC CALCULATIONS & SCHEDULES</td> <td>•••••</td> </tr> <tr> <td>E1.1</td> <td>DEMOLITION LIGHTING PLAN</td> <td>•••••</td> </tr> <tr> <td>E2.1</td> <td>NEW LIGHTING PLAN</td> <td>•••••</td> </tr> <tr> <td>E3.1</td> <td>PHOTOMETRIC PLAN</td> <td>•••••</td> </tr> <tr> <td>E3.2</td> <td>EGRESS PHOTOMETRIC PLAN</td> <td>•••••</td> </tr> <tr> <td>E4.1</td> <td>EXISTING LIGHTING RECORD PLAN</td> <td>•••••</td> </tr> <tr> <td colspan="2">TOTAL SHEETS IN ISSUE:</td> <td>8</td> </tr> </tbody> </table>	SHEET	DESCRIPTION		60.1	COVER SHEET	•••••	E0.1	ELECTRICAL LEGEND	•••••	E0.2	ELECTRICAL SPECIFICATIONS	•••••	E0.3	IECC CALCULATIONS & SCHEDULES	•••••	E1.1	DEMOLITION LIGHTING PLAN	•••••	E2.1	NEW LIGHTING PLAN	•••••	E3.1	PHOTOMETRIC PLAN	•••••	E3.2	EGRESS PHOTOMETRIC PLAN	•••••	E4.1	EXISTING LIGHTING RECORD PLAN	•••••	TOTAL SHEETS IN ISSUE:		8	<p>CONSULTANT</p> <div style="text-align: center;"> <p>PK Electrical, Inc. ENGINEERING DESIGN CONSULTING <small>681 Sierra Rose Drive, Suite 8 Reno, NV 89511 775.826.9010 4601 DTC Boulevard, Suite 740 Denver, CO 80237 720.481.3290 pk-electrical.com PK#</small></p> </div> <p>PROJECT INFORMATION</p> <table border="1"> <tr> <td>JURISDICTION</td> <td>WASHOE COUNTY</td> </tr> <tr> <td>CURRENT CODES</td> <td></td> </tr> <tr> <td colspan="2">2017 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL BUILDING CODE</td> </tr> </table>	JURISDICTION	WASHOE COUNTY	CURRENT CODES		2017 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL BUILDING CODE	
SHEET	DESCRIPTION																																									
60.1	COVER SHEET	•••••																																								
E0.1	ELECTRICAL LEGEND	•••••																																								
E0.2	ELECTRICAL SPECIFICATIONS	•••••																																								
E0.3	IECC CALCULATIONS & SCHEDULES	•••••																																								
E1.1	DEMOLITION LIGHTING PLAN	•••••																																								
E2.1	NEW LIGHTING PLAN	•••••																																								
E3.1	PHOTOMETRIC PLAN	•••••																																								
E3.2	EGRESS PHOTOMETRIC PLAN	•••••																																								
E4.1	EXISTING LIGHTING RECORD PLAN	•••••																																								
TOTAL SHEETS IN ISSUE:		8																																								
JURISDICTION	WASHOE COUNTY																																									
CURRENT CODES																																										
2017 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL BUILDING CODE																																										

REVISIONS

SHEET TITLE

COVER SHEET

DRAWN: SV
 CHECKED: JEG
 DATE: 4/12/24
 JOB NUMBER: 23115
 PROJECT MGR: SV

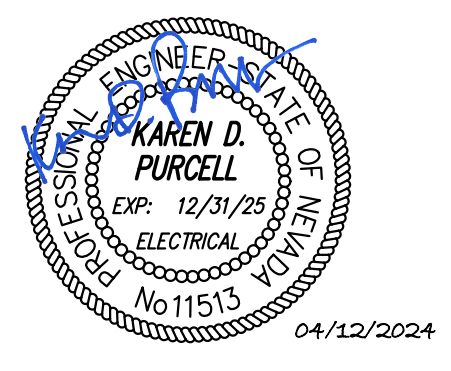
G0.1

ELECTRICAL LEGEND

<p> PANELBOARD: SURFACE MOUNTED PANELBOARD: FLUSH MOUNTED SWITCHBOARD OR DISTRIBUTION PANEL TRANSFORMER FULLBOX / 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 </p>	<p> 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 5-20IS, +18" AFF COMBO DUAL USB CHARGER / DUPLEX RECEPTACLE, 5.1A, (1) TYPE A & (1) TYPE C USB (3.1, 3.0, 2.0 AND I.I COMPATIBLE), 20A, 125V, NEMA 5-20R, +18" AFF QUAD USB CHARGER, 5.1A, (2) TYPE A & (2) TYPE C USB (3.1, 3.0, 2.0 AND I.I COMPATIBLE), +18" AFF SPECIAL PURPOSE RECEPTACLE: SEE DWGS FOR NEMA CONFIGURATION DUPLEX 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 </p>	<p> 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 DRAINOUT CIRCUIT BREAKER TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4 SURGE PROTECTION DEVICE </p>	<p> A AMPS ADA AMERICANS WITH DISABILITIES ACT AFC ABOVE FINISHED CEILING AFCI ARC-FAULT CIRCUIT INTERRUPTER AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AMP 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 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 FMG FLEXIBLE METAL CONDUIT (STEEL) FPEN FUSE PER EQUIP. NAMEPLATE GFI GROUND FAULT INTERRUPT GFR GROUND FAULT RELAY GND GROUND HID HIGH INTENSITY DISCHARGE HOA HAND-OFF-AUTO SWITCH HP HORSEPOWER HSKP HOUSEKEEPING IMC INTERMEDIATE METAL CONDUIT J-BOX JUNCTION BOX K kcmil (BOOK = 300 kcmil) KVA KILOVOLT AMPS KW KILOWATT LTG LIGHTING IS 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 MANUFACTURERS ASSOCIATION NOT IN CONTRACT NIC NIGHTLIGHT NO NORMALLY OPEN NTS NOT TO SCALE NVE NV ENERGY F FUSE PH PHASE PV PHOTOVOLTAIC PNL PANEL PTC P.V. USA TEST CONDITIONS PWR POWER (R) RELOCATE/RELOCATED (RR) REMOVE AND REPLACE RAC RIGID ALUMINUM CONDUIT RFC RIGID FIBERGLASS CONDUIT RSC RIGID STEEL CONDUIT SE SERVICE ENTRANCE SFD SURGE PROTECTION DEVICE SPDT SINGLE-POLE, DOUBLE-THROW SPST SINGLE-POLE, SINGLE-THROW STC STANDARD TEST CONDITIONS SW SWITCH TE TELECOM TIB TELEPHONE TERMINATION BOARD TYP TYPICAL UL UNDERWRITER'S LABORATORY UNO UNLESS NOTED OTHERWISE UNSW UNSWITCHED UPS 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 </p>
<p> 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 DT2000N 48" AFF D DIMMER OPERATED SWITCH 48" AFF OCCUPANCY SENSOR - WALL MOUNTED 48" AFF 0-10V DIMMING OCCUPANCY SENSOR - WALL MOUNTED 48" AFF - EQUAL TO SENSOR SWITCH MSX-D OCCUPANCY SENSOR - CEILING MOUNTED, PROVIDE WITH POWER PACK PER MFG REQUIREMENTS. OCCUPANCY SENSOR - CORNER MOUNTED, PROVIDE WITH POWER PACK PER MFG REQUIREMENTS. CONTROL STATION CONTACTOR OR RELAY PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO) TIMECLOCK </p>	<p> 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 </p>	<p> 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) </p>	<p> 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 HA-(1)353N(S) HOMERUN CIRCUIT DESIGNATION GROUNDING CONDUCTOR NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS) PHASE CONDUCTOR(S) PANELBOARD DESIGNATION HA-(1)353(S) HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN) GROUNDING CONDUCTOR PHASE CONDUCTOR(S) PANELBOARD DESIGNATION </p>
<p> 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 </p>	<p> 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 </p>	<p> 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 </p>	<p> * FIXTURE SCHEDULE HAS PRECEDENCE * EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS INDICATE DIRECTION SHADING INDICATES EGRESS FIXTURE </p>
<p> E = EQUIPMENT M = MOTOR H = ELECTRIC HEAT MI = LARGEST MOTOR K = KITCHEN EQUIP R = RECEPTACLES L = LIGHTING </p>	<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 </p>	<p>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.</p>	



PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3290
pkelctrical.com | PH# 800001



RSCVA CONVENTION CENTER
ELECTRICAL SERVICE UPGRADE
 4590 SOUTH VIRGINIA STREET
 RENO, NV 89502

REVISIONS

SHEET TITLE
ELECTRICAL LEGEND

DRAWN: SV
 CHECKED: JEG
 DATE: 4/12/24
 JOB NUMBER: 23115
 PROJECT MGR: SV

E0.1

SECTION 260000 ELECTRICAL SPECIFICATIONS

ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION
1.1	PART 1 - GENERAL SUMMARY • THE WORK UNDER THIS DIVISION SHALL CONSIST OF ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND RELATED ACCESSORIES, ETC. NECESSARY AND REQUIRED TO COMPLETE ALL WORK SHOWN OR INFERRED ON THE DRAWINGS AND IN THE SPECIFICATIONS (CONTRACT DOCUMENTS). • PROVIDE FIXED ELECTRICAL EQUIPMENT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. • PROVIDE EQUIPMENT AND/OR WIRING NORMALLY FURNISHED OR REQUIRED FOR COMPLETE ELECTRICAL SYSTEMS BUT NOT SPECIFICALLY SPECIFIED ON THE DRAWINGS AND/OR IN SPECIFICATIONS, AS THOUGH SPECIFIED BY BOTH. • ALL EQUIPMENT AND WIRING SHALL BE NEW, EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED OTHERWISE ELSEWHERE. RELATED WORK SPECIFIED ELSEWHERE 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 APPENDIX A, ADOPTED CODES. 1. NATIONAL ELECTRICAL BUILDING CODE (NBC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC). 2. NATIONAL ELECTRICAL CODE (NEC) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). 3. INTERNATIONAL FIRE CODE (IFC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL. 4. NATIONAL FIRE CODE (NFC) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AS REFERENCED IN THE 2006 INTERNATIONAL FIRE CODE. 5. INTERNATIONAL ENERGY CONSERVATION CODE (IECC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL, ASHRAE / IESNA STANDARD 90.1-2004 IS INCORPORATED BY REFERENCE. 6. ALL APPLICABLE PROVISIONS OF THE NEVADA REVISED STATUTES (NRS) AND THE NEVADA ADMINISTRATIVE CODE (NAC), INCLUDING THOSE LISTED BELOW. 7. THE MOST CURRENT REGULATIONS OF THE STATE FIRE MARSHAL, NEVADA DEPARTMENT OF PUBLIC SAFETY, CARSON CITY, NEVADA (NAC CHAPTER 471, STATE FIRE MARSHAL). 8. 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). 1.4. DEFINITIONS FURNISH, INSTALL, CONNECT AND TEST UNTIL COMPLETE WIRE FURNISH ALL NECESSARY WIRING, CONNECT AND TEST UNTIL COMPLETE INSTALL FURNISH, SET IN PLACE, WIRE AND TEST UNTIL COMPLETE WORK MATERIALS COMPLETELY INSTALLED, CONNECTED, AND TESTED UNTIL COMPLETE EQUAL ACCEPTABLE EQUAL AS DETERMINED BY THE ENGINEER 1.5. REQUIREMENTS OF REGULATORY AGENCIES • OBTAIN 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. • INSTALL 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 SPECIAL WIRING METHODS AND PROCEDURES. IN THE EVENT OF CONFLICT, INSTALL WORK PER MOST STRINGENT CODE REQUIREMENTS 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 HIS OWN EXPENSE. 1.6. DRAWINGS AND SPECIFICATIONS • 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 HIS 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 SCALED DIMENSIONS. DO NOT SCALE DRAWINGS FOR EXACT SIZES OR LOCATIONS - USE DIMENSIONED DETAILS OR ACTUAL FIELD CONDITIONS. VERIFY ITEM MOUNTING HEIGHTS AS REQUIRED BY PROJECT CONDITIONS PRIOR TO ROUGH-IN. • TAKE PRECAUTIONS TO PREVENT DAMAGE TO EXISTING WORK. IN 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 HIS OBLIGATION TO PERFORM. • NO ATTEMPT HAS BEEN MADE TO ESTABLISH THE REQUIRED SECTIONS OR SPLITS OF EQUIPMENT RELATIVE TO THE SIZE OF ACCESS, BUILDING, BUILDINGS, 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. 1.7. COPYRIGHT THESE PLANS, SPECIFICATIONS, AND ALL RELATED APPENDIX A 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. 1.8. SUBMITTALS 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.	1.1. SUBSTITUTIONS 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. 1.10. EXAMINATION OF SITE AND EXISTING CONDITIONS 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. 1.11. EXISTING OUTLETS EXISTING OUTLETS AND CIRCUITING NOT IN CONFLICT WITH NEW CONDITIONS SHALL REMAIN. EXTEND OUTLETS TO NEW SURFACES, CAULK, AND PROVIDE JEMBO PLATES AS REQUIRED TO PRESENT A SERVICEABLE AND FINISHED APPEARANCE. 1.12. EXISTING SWITCHGEAR 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. 1.13. EXISTING PANELS • VERIFY CIRCUITS IN EXISTING PANELS. WHERE ADDITIONAL CIRCUITS ARE NEEDED REUSE CIRCUITS AVAILABLE FOR REUSE. INSTALL NEW BREAKERS AS INDICATED ON DRAWINGS. MATCH AIC RATINGS. • TAG UNUSED CIRCUITS AS SPARE. • WHERE EXISTING CIRCUITS ARE INDICATED TO BE REUSED, USE SENSING MEASURING DEVICES TO PROTECT THE CIRCUITS FROM OVERLOADS. • REMOVE EXISTING WIRE NO LONGER IN USE FROM PANEL TO EQUIPMENT. • PROVIDE NEW UPDATED TYPED DIRECTORIES. PART 2 - PRODUCTS 2.1. MATERIALS • AVAILABLE 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 TO, ARTICLE 100. SUBMIT LETTER STATING COMPLIANCE WITH THESE REQUIREMENTS. • UTILIZE ONE OF THE MANUFACTURERS LISTED TO FURNISH ALL OF THE MAJOR EQUIPMENT (I.E. 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. • PROVIDE ALL CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE. 2.2. DISTRIBUTION EQUIPMENT DISTRIBUTION EQUIPMENT SHALL BE DEAD-FRONT, PANELBOARD OR SWITCHBOARD TYPE AS INDICATED, UL-LABELED AND ENCLOSED IN A NEMA HOUSING APPROPRIATE TO ITS LOCATION AND APPLICATION WITH HINGED WIREWAY COVERS, BUSHINGS, DEVICE FINGERS AND LUGS SHALL BE 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 INCORRECT, 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. 2.3. COORDINATION OF UTILITY SERVICES DRAWINGS INDICATE PROPOSED SERVICE LAYOUTS. THE CONTRACTOR SHALL PROVIDE ALL CONCRETE STRUCTURES, PULLBOXES, VAULTS, TRENCING, RACEWAYS, PROTECTIVE BOLLARDS, ETC., AS REQUIRED PER ANY ENERGY STANDARDS (ELECTRICAL UTILITY), AT&T (TELEPHONE COMPANY) AND CHARTER (CITY UTILITY) STANDARDS. • CONTRACTOR IS RESPONSIBLE FOR SUBMITTING PROJECT DRAWINGS, APPLICATION, AND EQUIPMENT SHOP DRAWINGS TO THE UTILITY. UTILITY FEES TO BE PAID BY PROJECT OWNER. 2.4. DELIVERY, STORAGE AND HANDLING • DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINER. PRODUCTS SHALL BE PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELING AND OTHER INFORMATION NEEDED FOR IDENTIFICATION. STORE TO PREVENT DAMAGE AND INJURY. STORE MATERIALS TO PREVENT CORRODING. 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. 2.5. ANCHORS • 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. 2.6. CLEANING AND PAINTING • CLEAN EQUIPMENT FURNISHED IN THIS DIVISION AFTER COMPLETION OF WORK. CLEAN WIRE THE INTERIOR OF ALL CONDUIT, PULLBOXES, JUNCTION BOXES, OUTLET BOXES, AND PANELBOARD BACKBOXES SOILED WITH DIRT AND DEBRIS PRIOR TO INSTALLATION OF WIRING. TOUCH-UP OR RE-PAINT DAMAGED PAINTED FINISHES AS DETERMINED BY THE ENGINEER. 2.7. RECORD DRAWINGS • CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE-SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM. ALSO INCLUDE THE FOLLOWING INFORMATION: EXACT ROUTING OF ALL CONDUITS LARGER THAN ONE INCH. EXACT LOCATION OF ALL SERVICE GROUNDING/ BONDING CONNECTIONS. CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER. • RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT. 2.8. VISIT TO SITE • VISIT TO SITE AND SURVEY EXISTING CONDITIONS AFFECTING WORK PRIOR TO BID, INCLUDING 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 DUE TO EXISTING CONDITIONS. ANY DISCREPANCIES OR INTERFERENCES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.	3.2. WORKMANSHIP 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 TO 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. 3.3. CHANGE ORDERS • 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. 3.4. GUARANTEE • 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, THE 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. 3.5. OBSERVATIONS OF WORK AND DEMONSTRATION OF OPERATION (ACCEPTANCE) • AT ALL OBSERVATIONS OF WORK, OPEN PANEL COVERS, JUNCTION BOX COVERS, FULL BOX COVERS, DEVICE COVERS, AND OTHER EQUIPMENT WITH REMOVABLE PLATES FOR OBSERVATION AS REQUESTED BY AHJ 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 AND MAINTAIN SIGNED BY OWNER'S REPRESENTATIVE INDICATING THAT DEMONSTRATION OF OPERATION HAS BEEN PERFORMED. 3.6. COOPERATION • 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, PROJECT 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 INCORRECT, 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. 3.7. COORDINATION OF UTILITY SERVICES DRAWINGS INDICATE PROPOSED SERVICE LAYOUTS. THE CONTRACTOR SHALL PROVIDE ALL CONCRETE STRUCTURES, PULLBOXES, VAULTS, TRENCING, RACEWAYS, PROTECTIVE BOLLARDS, ETC., AS REQUIRED PER ANY ENERGY STANDARDS (ELECTRICAL UTILITY), AT&T (TELEPHONE COMPANY) AND CHARTER (CITY UTILITY) STANDARDS. • CONTRACTOR IS RESPONSIBLE FOR SUBMITTING PROJECT DRAWINGS, APPLICATION, AND EQUIPMENT SHOP DRAWINGS TO THE UTILITY. UTILITY FEES TO BE PAID BY PROJECT OWNER. 3.8. DELIVERY, STORAGE AND HANDLING • DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINER. PRODUCTS SHALL BE PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELING AND OTHER INFORMATION NEEDED FOR IDENTIFICATION. STORE TO PREVENT DAMAGE AND INJURY. STORE MATERIALS TO PREVENT CORRODING. 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. 3.9. ANCHORS • 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. 3.10. CLEANING AND PAINTING • CLEAN EQUIPMENT FURNISHED IN THIS DIVISION AFTER COMPLETION OF WORK. CLEAN WIRE THE INTERIOR OF ALL CONDUIT, PULLBOXES, JUNCTION BOXES, OUTLET BOXES, AND PANELBOARD BACKBOXES SOILED WITH DIRT AND DEBRIS PRIOR TO INSTALLATION OF WIRING. TOUCH-UP OR RE-PAINT DAMAGED PAINTED FINISHES AS DETERMINED BY THE ENGINEER. 3.11. RECORD DRAWINGS • CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE-SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM. ALSO INCLUDE THE FOLLOWING INFORMATION: EXACT ROUTING OF ALL CONDUITS LARGER THAN ONE INCH. EXACT LOCATION OF ALL SERVICE GROUNDING/ BONDING CONNECTIONS. CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER. • RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT.	3.12. ELECTRICAL SYSTEM TESTING 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 INTERNATIONAL ELECTRICAL TESTING ASSOCIATION TESTING. TESTING SERVICES 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 ENGINEER. 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: • 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. 3.13. IDENTIFICATION • PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTRACTORS, 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: 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-#4/0 THAN CU IN 2" G); SOURCE (I.E. SWITCHBOARDS MEB). • JUNCTION FULL 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 INDELIBLE PAINT MARKER AT CONCEALED BOXES. ALL FIRE ALARM BOXES SHALL HAVE COVERS PAINTED RED. ALL TEMPERATURE CONTROL BOXES SHALL HAVE COVERS PAINTED BLUE. • BRANCH CIRCUIT CONDUITS SHALL BE IDENTIFIED IN EACH JUNCTION BOX AND FULL BOX WITH WIRE MARKERS AS MANUFACTURED BY THE MANUFACTURER 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 INDELIBLE 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 BOARD. 3.14. ONGOING OPERATION 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. 3.15. FLEXIBLE CONNECTIONS 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. DISPOSAL PROCEDURES (FLUORESCENT BULBS, BALLASTS AND LIGHT FIXTURES) • THESE MATERIALS DO NOT REQUIRE SPECIAL TRAINING TO REMOVE OR PACKAGE. • THE CONTRACTOR SHALL CONTRACT WITH WASTE MANAGEMENT LAMPTRACKER OR SIMILAR RECYCLING COMPANY TO RECYCLE THE LAMPS (FLUORESCENT BULBS) AND BALLASTS REMOVED DURING THE PROJECT. THE COSTS TO RECYCLE THESE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DISPOSAL AND COSTS OF NON-REGULATED MATERIALS (LIGHT FIXTURES) IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO RECYCLE AS MUCH MATERIAL AS POSSIBLE. 3.16. SALVAGE 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. 3.18. SEISMIC PROTECTION • THIS PROJECT IS SUBJECT TO THE SEISMIC BRACING REQUIREMENT OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION, THE FOLLOWING CRITERIA ARE APPLICABLE TO THIS PROJECT: 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: LIGHT FIXTURES, TRANSFORMERS, SWITCHBOARDS, PANELBOARDS. • ELECTRICAL SYSTEMS: THE FOLLOWING ELECTRICAL SYSTEMS SHALL BE SEISMICALLY PROTECTED IN ACCORDANCE WITH THIS SPECIFICATION: LIGHTING, POWER, SERVICE, 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. END OF SECTION 260000	

ENGINEERING | DESIGN | CONSULTING
681 Sierra Road Drive, Suite 1 | Reno, NV 89511 | 775.826.9070
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3300
pk@pk-elect.com | PKR0004

KAREN D. PURCELL
EXP. 12/31/25
ELECTRICAL
NO 11513
04/12/2024

RSCVA CONVENTION CENTER
ELECTRICAL SERVICE UPGRADE
4590 SOUTH VIRGINIA STREET
RENO, NV 89502

REVISIONS

NO.	DESCRIPTION	DATE

SHEET TITLE
ELECTRICAL SPECIFICATIONS

DRAWN	SV
CHECKED	JEG
DATE	4/12/24
JOB NUMBER	23115
PROJECT MGR.	SV



COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: RSCVA
Project Type: Alteration

Construction Site: 4590 S. Virginia Street, Reno, NV 89502
Owner/Agent: RSCVA, 4590 S. Virginia Street, Reno, NV 89502
Designer/Contractor: PK Electrical, Inc., 681 Sierra Rose, Ste. B, Reno, NV 89511

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Event Center (Convention Center/Exhibit Space)	55000	0.88	48400
Total Allowed Watts =			48400

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Watt.	E (C X D)
Event Center (Convention Center/Exhibit Space 55000 sq.ft.) LED 1: L1: Round High Bay; Other:	1	135	300	40500
Total Proposed Watts =			40500	

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Karen D. Purcell, PE
Name - Title: Karen D. Purcell, PE Signature: [Signature] Date: 4/12/2024

Project Title: RSCVA Report date: 04/12/24
Data filename: K:\2023\23115 - RSCVA Reno Events Center Lighting Retrofit\02_Design\B_Lighting\02_Lightin Page 1 of 6
Calcs\B_Energy Compliance Calcs (IECC)\RSCVA Event Center.cck

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

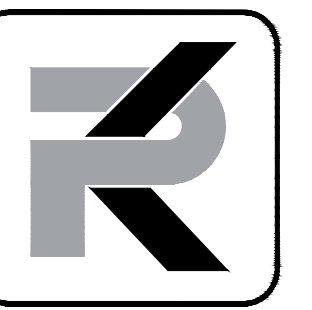
- OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.
- NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.
- SUBJECT TO REVIEW = EQUAL 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
LI	○	LED, 15', ROUND HIGH BAY FIXTURE WITH 42,000 LUMEN OUTPUT, 0-10V DIMMING CAPABILITIES AND BLACK FINISH. LAMP: LED, 42,000 LUMENS, 40K VOLTAGE: 120VOLT MANUFACTURER: ORACLE LIGHTING - ORH5 LED 42000L DIMO MVOLT 40K WD BK SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL

LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-50-20 (CEILING-HALL-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 IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.

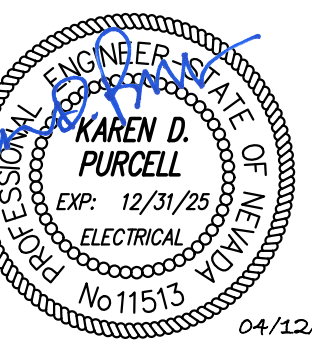
LIGHTING CONTROL SEQUENCE OF OPERATION

- LIGHTING FIXTURES ARE CURRENTLY CONTROLLED VIA AN EXISTING LUTRON LIGHTING CONTROL SYSTEM VIA A SOFTWARE BASED PROGRAM AND OPERATED FROM THE LIGHTING CONTROL BOOTH LOCATED ON THE SOUTHEAST END OF THE MEZZANINE LEVEL.
- LIGHTING CONTROL RELAY AND DIMMING PANELS ARE LOCATED AT THE CATWALK NORTHWEST AND SOUTHWEST END OF THE CATWALK SYSTEM.
- THERE ARE TWO TYPES OF HIGH BAY LIGHT FIXTURES THAT ARE BEING REMOVED AND/OR REPLACED WITHIN THE EVENT SPACE: QUARTZ AND METAL HALIDE TYPE FIXTURES.
- QUARTZ LIGHT FIXTURES ARE CURRENTLY THE ONLY FIXTURES THAT ARE ON DIMMING CIRCUITS VIA THE LIGHTING CONTROL SYSTEM. CONTRACTOR SHALL UTILIZE EXISTING QUARTZ LIGHT FIXTURE DIMMING CIRCUIT ONLY.
- THERE SHALL BE NO CHANGES TO ANY MANUAL AND/OR KEYED LIGHTING CONTROL DEVICES PER RSCVA.
- CONTRACTOR SHALL COORDINATE WITH LIGHTING REPRESENTATIVE FOR ALL MATERIALS AND/OR EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- LIGHTING REPRESENTATIVE SHALL PROVIDE RSCVA EVENT CENTER FACILITY STAFF WITH ON-SITE TRAINING AND/OR NEW LIGHTING CONTROL SOFTWARE UPGRADES AS NECESSARY.



PK Electrical, Inc.

ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3200
pk-electrical.com | PKR0000



04/12/2024

RSCVA CONVENTION CENTER
ELECTRICAL SERVICE UPGRADE
4590 SOUTH VIRGINIA STREET
RENO, NV 89502

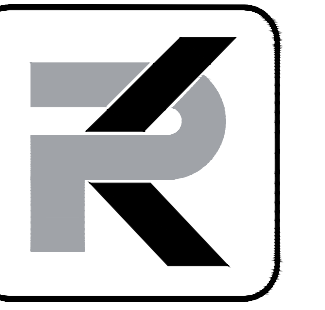
REVISIONS

SHEET TITLE

IECC CALCULATIONS & SCHEDULES

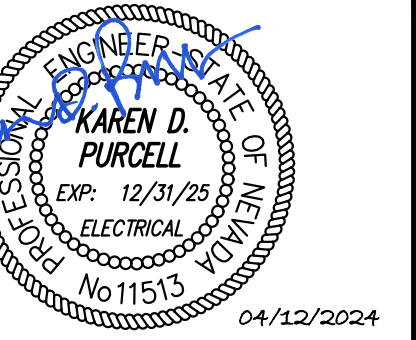
DRAWN: SV
CHECKED: JEG
DATE: 4/12/24
JOB NUMBER: 23115
PROJECT MGR: SV

E0.3



PK Electrical, Inc.

ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3200
pk-electric.com | PKR00001

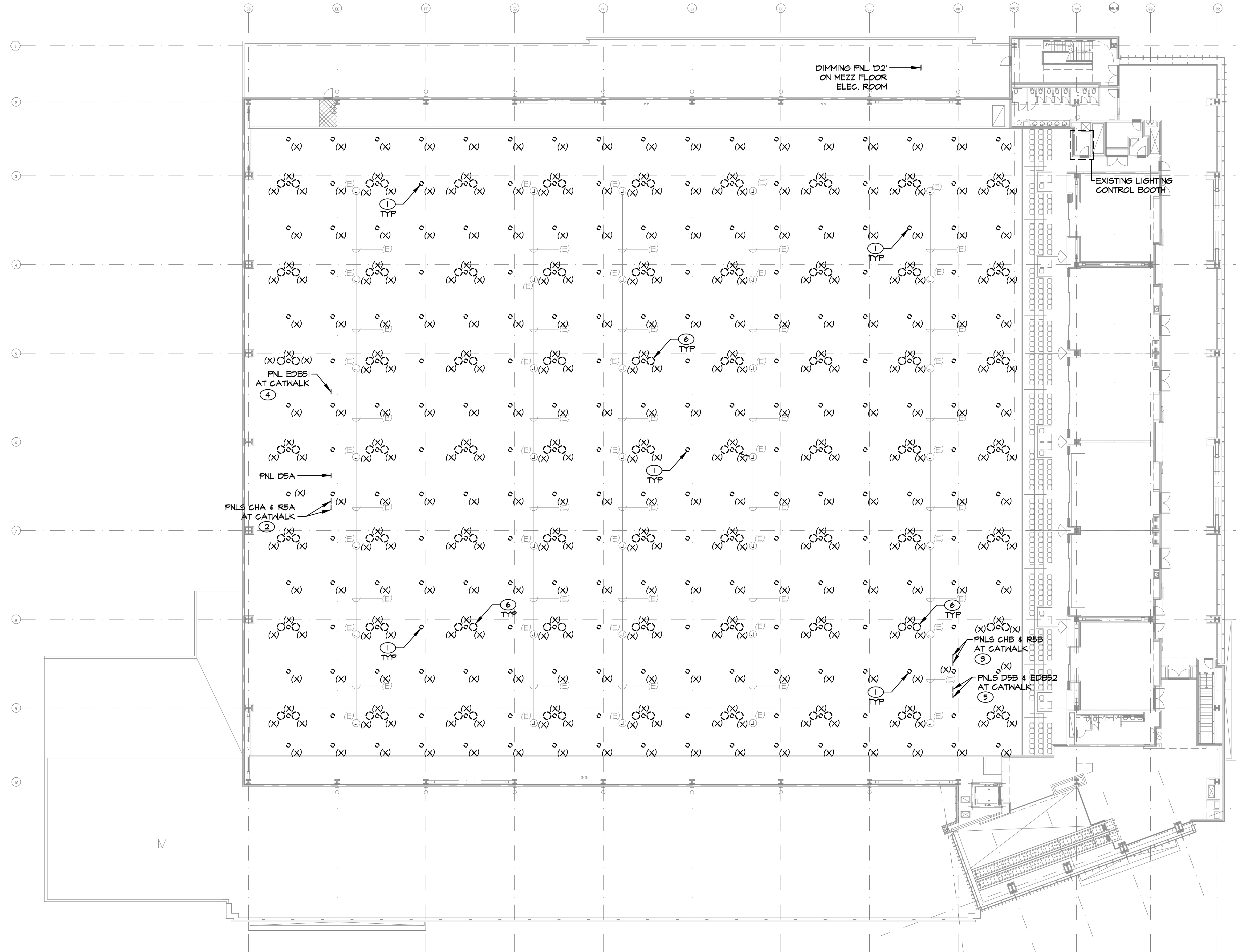


GENERAL NOTES

- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (R) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE RELOCATED, (E) AND/OR HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
- SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
- THE CONTRACTOR SHALL SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.

SHEET NOTES

- MAINTAIN INTEGRITY OF EXISTING QUARTZ LIGHTING DIMMING CIRCUIT AND J-BOXES FOR REUSE UPON COMPLETION OF LIGHT FIXTURE RETROFIT (TYP OF 135). SEE NEW LIGHTING PLAN FOR FURTHER INFORMATION.
- PANEL CHA AND ASSOCIATED DIMMING RELAY PANELS D5A/R5A ARE LOCATED AT THE NORTH END OF THE CATWALK. COORDINATE WITH RSCVA FACILITIES PRIOR TO COMMENCING WORK.
- PANEL CHB AND ASSOCIATED DIMMING RELAY PANELS D5B/R5B ARE LOCATED AT THE SOUTH END OF THE CATWALK. COORDINATE WITH RSCVA FACILITIES PRIOR TO COMMENCING WORK.
- EMERGENCY INVERTER BACKED PANEL ED5B1 IS LOCATED ON THE NORTH END OF THE CATWALK. COORDINATE WITH RSCVA FACILITIES PRIOR TO COMMENCING WORK.
- EMERGENCY INVERTER BACKED PANEL ED5B2 IS LOCATED ON THE SOUTH END OF THE CATWALK. COORDINATE WITH RSCVA FACILITIES PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING METAL HALIDE FIXTURES AND CONDUIT SUPPORT STEM. CAP EXISTING LIGHTING CONDUCTORS AND PROVIDE BLANK COVER TO EXISTING J-BOXES. COORDINATE WITH RSCVA FACILITIES PRIOR TO COMMENCING WORK.



A DEMOLITION LIGHTNG PLAN
E1.1 SCALE: 1" = 20'-0"

REVISIONS

NO.	DESCRIPTION

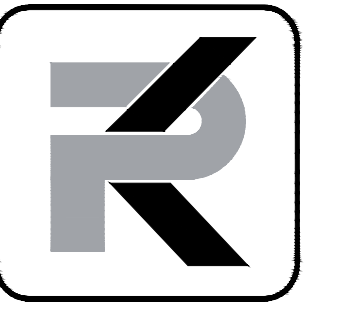
SHEET TITLE

DEMOLITION LIGHTING PLAN

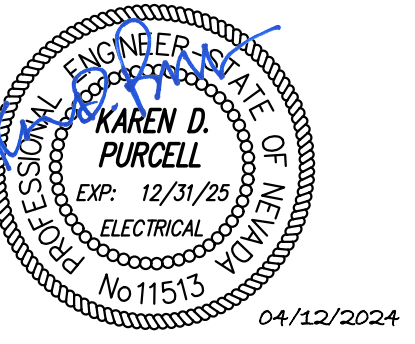
DRAWN:	SV
CHECKED:	JEG
DATE:	4/12/24
JOB NUMBER:	23115
PROJECT MGR:	SV

E1.1

**RSCVA CONVENTION CENTER
 ELECTRICAL SERVICE UPGRADE**
 4590 SOUTH VIRGINIA STREET
 RENO, NV 89502



PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3200
pk-electrical.com | PH# 800001

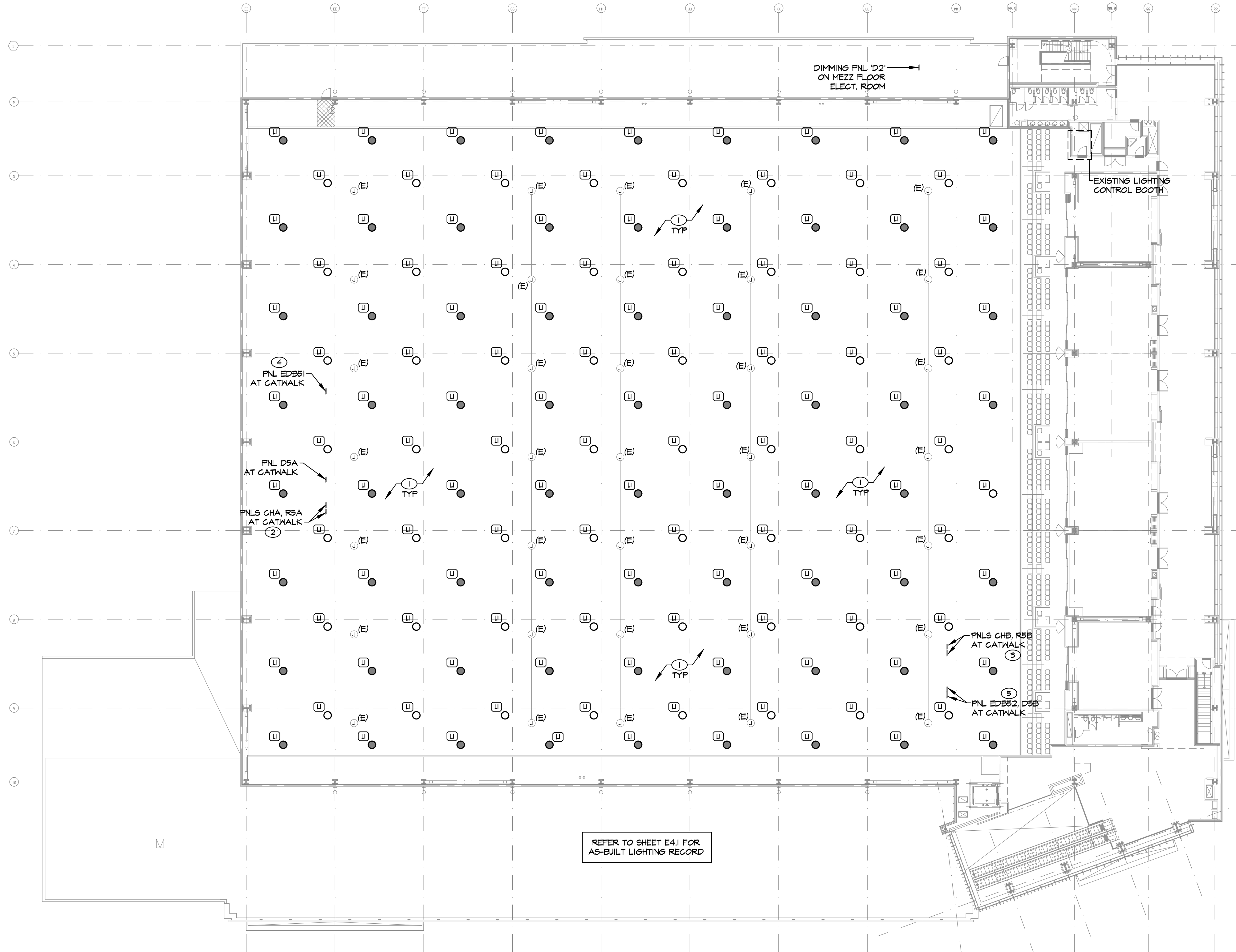


GENERAL NOTES

- (E) AND/OR HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- LIGHT FIXTURES DESIGNATED AS "EMERGENCY" SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE VIA EMERGENCY LIGHTING INVERTER (AND GENERATOR POWER) UPON LOSS OF BUILDING UTILITY POWER ONLY, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER SYSTEMS PRIOR TO ROUGH-IN.
- REUSE EXISTING CONDUIT SYSTEMS FOR NEW WORK TO EXTENT POSSIBLE WHERE EXISTING LIGHT FIXTURES, DEVICES, ETC. ARE REMOVED DURING DEMOLITION PHASE.
- EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED AND COORDINATE WITH LIGHTING REPRESENTATIVE FOR A COMPLETE AND OPERABLE SYSTEM.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO UPDATE ALL LIGHTING CIRCUITS WITHIN PANEL SCHEDULES UPON COMPLETION OF LIGHTING RETROFIT.
- THE LIGHTING CONTRACTOR SHALL PROVIDE ALL NECESSARY LINE AND LOW-VOLTAGE WIRING TO ALL LIGHTING FIXTURE, LIGHTING CONTROL DEVICES, AND LIGHTING CONTROL PANELS AS REQUIRED TO FORM A COMPLETE AND CODE COMPLIANT LIGHTING CONTROL SYSTEM. 0-10V WIRING IS NOT DEPICTED ON PLANS BUT IS REQUIRED FOR DIMMING/LIGHTING CONTROL. REFER TO LIGHTING CONTROL SEQUENCE AND COORDINATE WITH LIGHTING REPRESENTATIVE ALL MATERIALS AND EQUIPMENT NECESSARY.

SHEET NOTES

- CONNECT NEW LIGHT FIXTURE TO EXISTING QUARTZ DIMMING CIRCUIT MADE AVAILABLE DURING DEMOLITION. CONTRACTOR SHALL PROVIDE LUTRON GRX-TV1 0-10V INTERFACE (OR EQUAL). INTERFACE SHALL BE CONNECTED TO EACH EXISTING QUARTZ LIGHTING DIMMING LIGHTING CIRCUIT AND BE CONTROLLED VIA EXISTING LUTRON CONTROL SYSTEM. PROVIDE ALL NECESSARY 0-10V WIRING AND EQUIPMENT NECESSARY. COORDINATE WITH RSCVA FACILITIES FOR ALL POWER OUTAGES NECESSARY.



A
E2.1 **NEW LIGHTING PLAN**
SCALE: 1" = 20'-0"

REVISIONS

NO.	DESCRIPTION

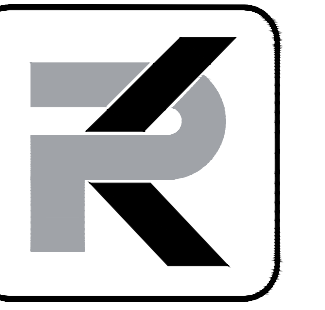
SHEET TITLE

NEW LIGHTING PLAN

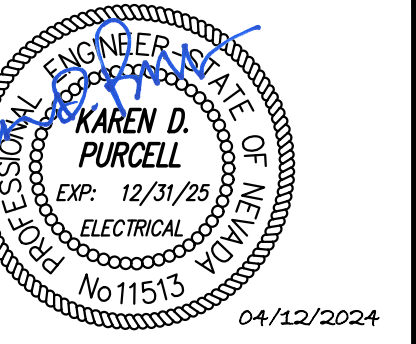
DRAWN:	SV
CHECKED:	JEG
DATE:	4/12/24
JOB NUMBER:	23115
PROJECT MGR:	SV

E2.1

**RSCVA CONVENTION CENTER
ELECTRICAL SERVICE UPGRADE**
4590 SOUTH VIRGINIA STREET
RENO, NV 89502



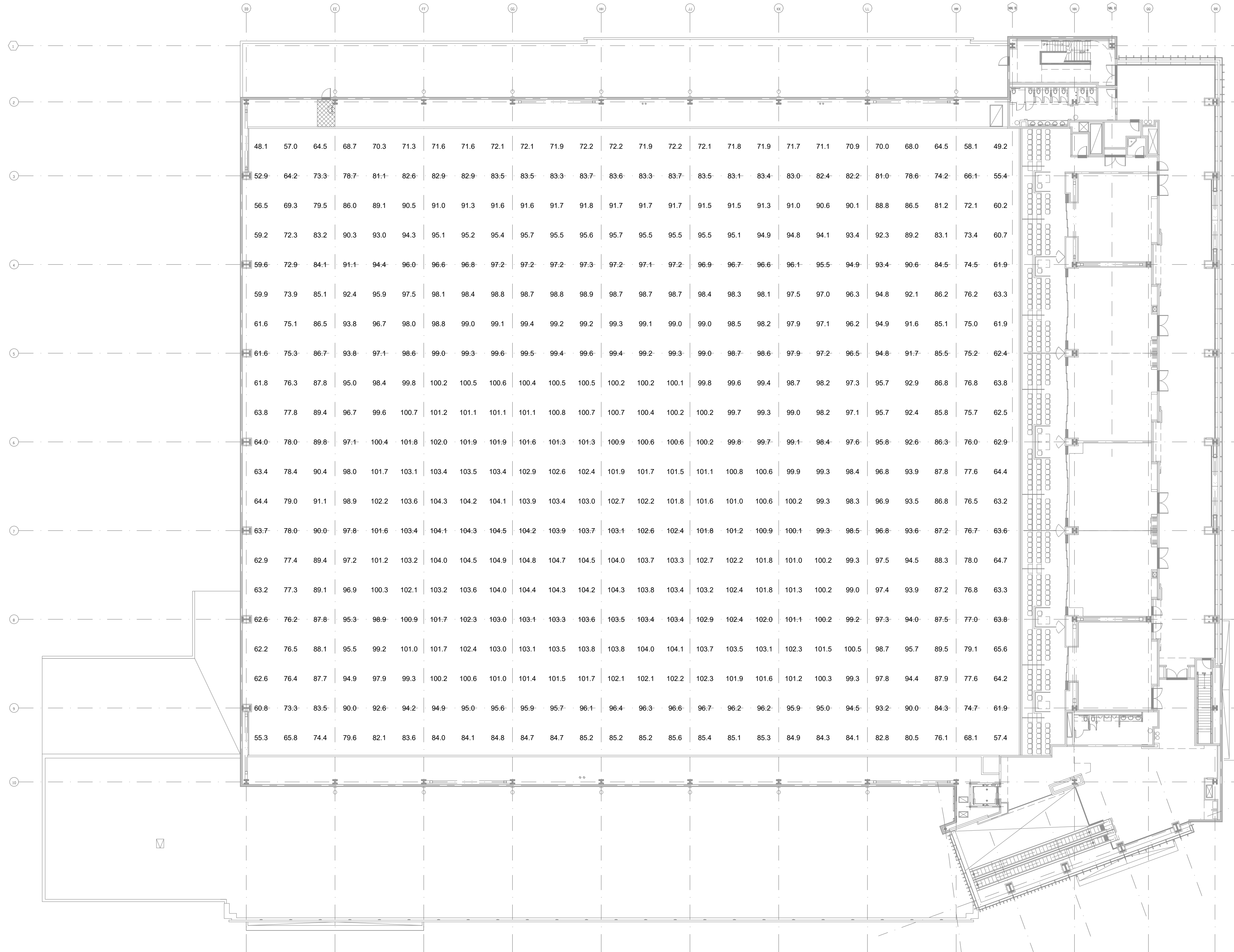
PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3200
pk-electric.com | PKR00001



GENERAL NOTES

1. THESE CALCULATIONS ARE BASED ON MANUFACTURER'S IES FILES AND .90 LIGHT DEPRECIATION FACTORS.
2. ACTUAL ILLUMINATION LEVELS MAY DIFFER FROM THE FOOTCANDLE LEVELS OBTAINED DUE TO A VARIETY OF EXISTING FIELD CONDITIONS INCLUDING, BUT NOT LIMITED TO, LIGHT DIRT DEPRECIATION AND NON-STANDARD FINISHES.

Statistics					
Description	Avg	Max	Min	Max/Min	Avg/Min
Event Space Floor	90.7 fc	104.9 fc	48.1 fc	2.2:1	1.9:1
South Wall	34.5 fc	55.5 fc	12.5 fc	4.4:1	2.8:1
West Wall	47.2 fc	221.2 fc	15.0 fc	14.7:1	3.1:1
East Wall	39.8 fc	235.8 fc	14.5 fc	16.3:1	2.7:1



A PHOTOMETRIC PLAN
E3.1 SCALE: 1" = 20'-0"

REVISIONS

NO.	DESCRIPTION

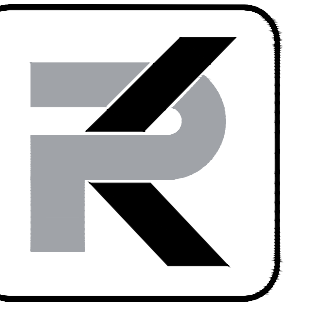
SHEET TITLE

PHOTOMETRIC PLAN

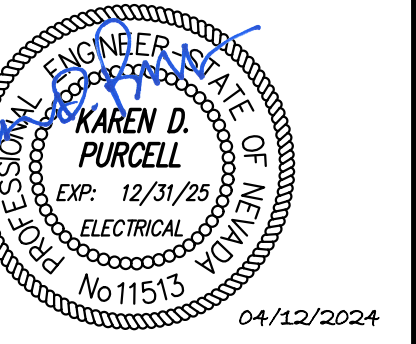
DRAWN: SV
CHECKED: JEG
DATE: 4/12/24
JOB NUMBER: 23115
PROJECT MGR: SV

E3.1

**RSCVA CONVENTION CENTER
ELECTRICAL SERVICE UPGRADE**
4590 SOUTH VIRGINIA STREET
RENO, NV 89502



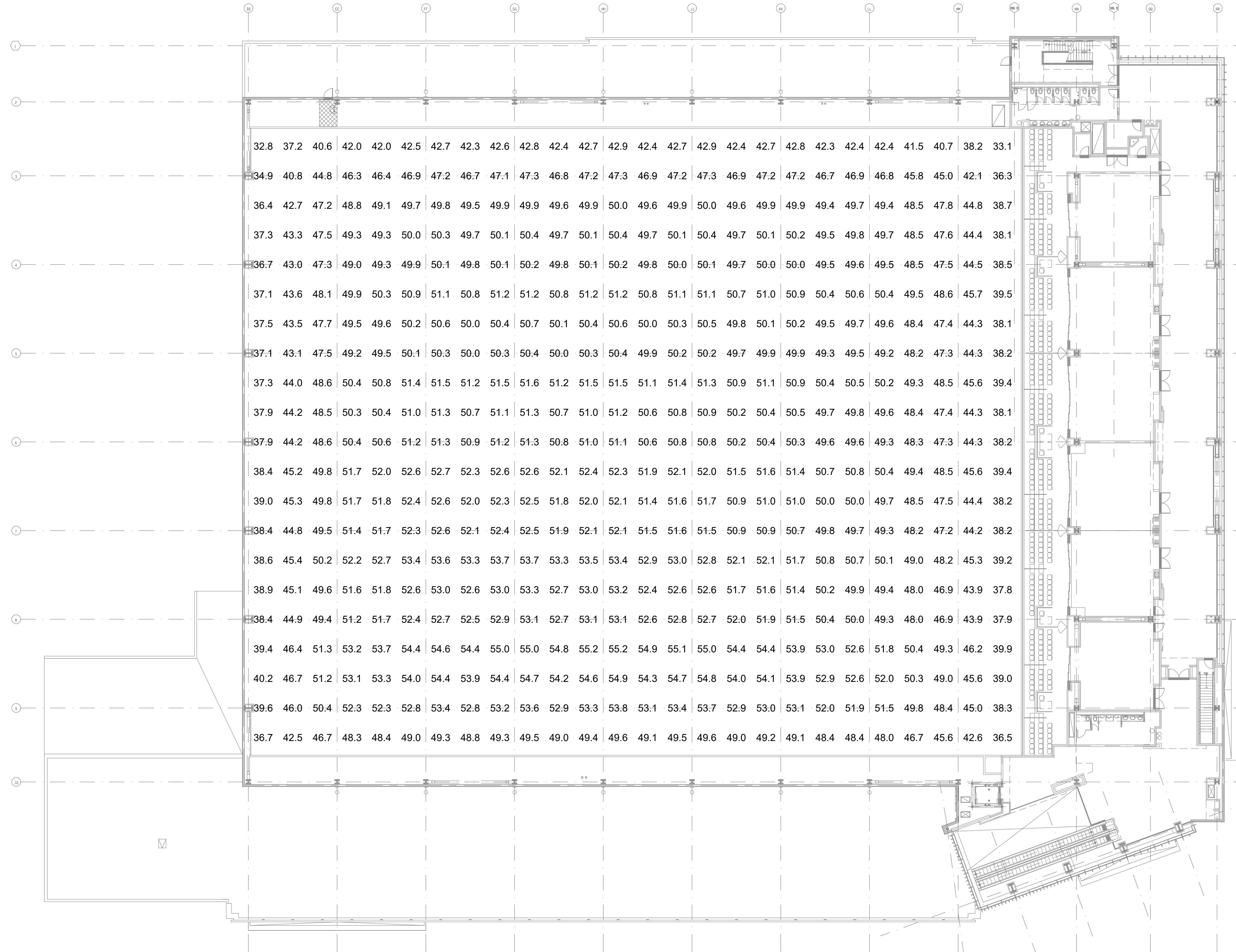
PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3200
pk-electric.com | PKR00001



GENERAL NOTES

1. THESE CALCULATIONS ARE BASED ON MANUFACTURER'S IES FILES AND .90 LIGHT DEPRECIATION FACTORS.
2. ACTUAL ILLUMINATION LEVELS MAY DIFFER FROM THE FOOTCANDLE LEVELS OBTAINED DUE TO A VARIETY OF EXISTING FIELD CONDITIONS INCLUDING, BUT NOT LIMITED TO, LIGHT DIRT DEPRECIATION AND NON-STANDARD FINISHES.

Description	Avg	Max	Min	Max/Min	Avg/Min
Event Space Floor	48.8 fc	55.2 fc	32.8 fc	1.7:1	1.5:1
South Wall	22.3 fc	38.3 fc	11.2 fc	3.4:1	2.0:1
West Wall	29.5 fc	89.4 fc	11.9 fc	7.5:1	2.5:1
East Wall	25.0 fc	70.9 fc	11.1 fc	6.4:1	2.3:1



A EGRESS PHOTOMETRIC PLAN
E3.2 SCALE: 1" = 20'-0"

**RSCVA CONVENTION CENTER
ELECTRICAL SERVICE UPGRADE**
4590 SOUTH VIRGINIA STREET
RENO, NV 89502

REVISIONS

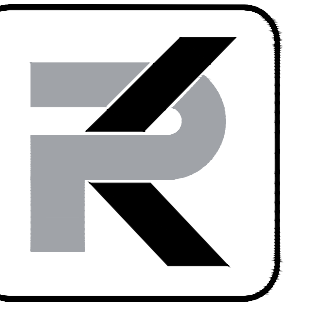
NO.	DESCRIPTION

SHEET TITLE

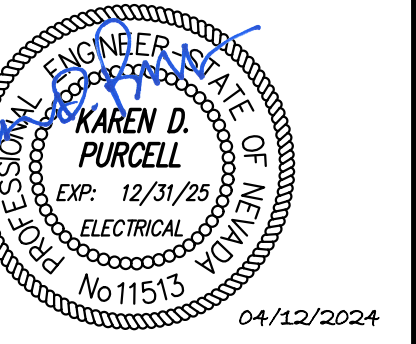
EGRESS PHOTOMETRIC PLAN

DRAWN: SV
CHECKED: JEG
DATE: 4/12/24
JOB NUMBER: 23115
PROJECT MGR: SV

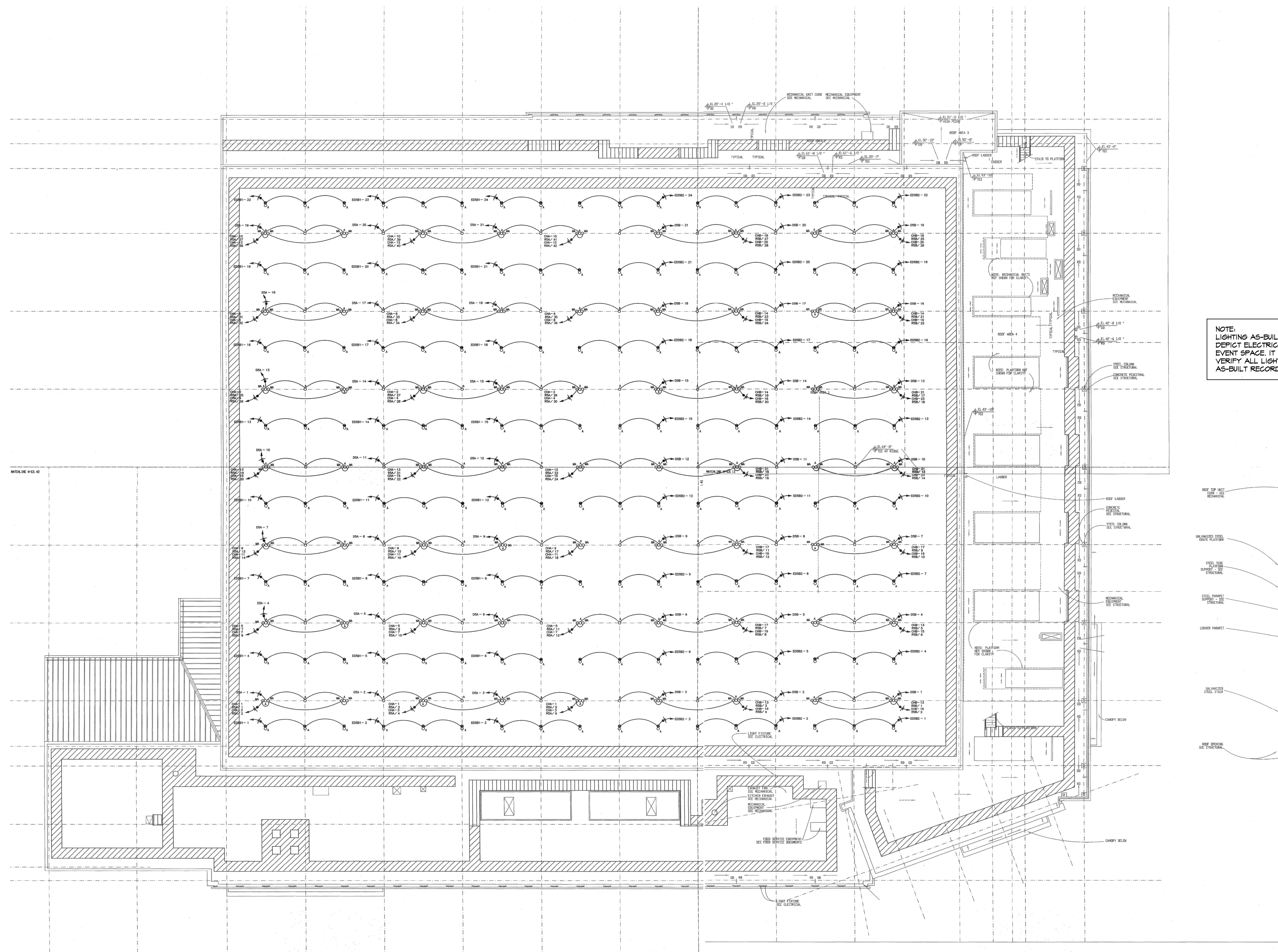
E3.2



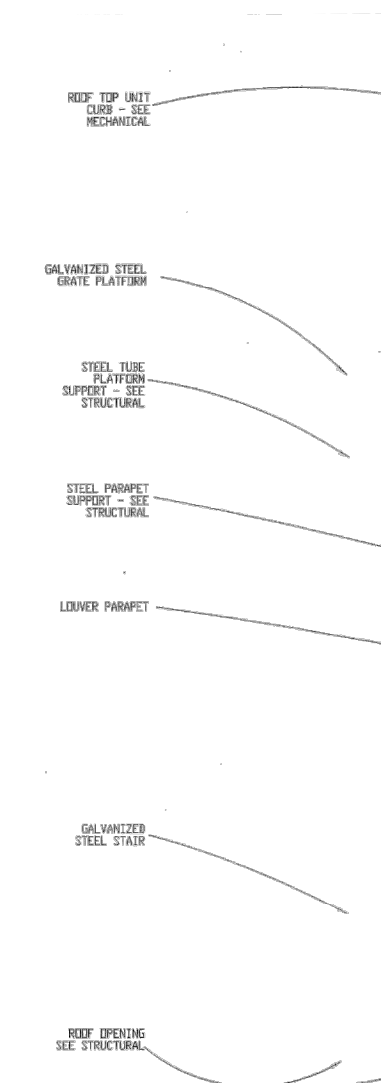
PK Electrical, Inc.
 ENGINEERING | DESIGN | CONSULTING
 681 Sierra Rose Drive, Suite 8 | Reno, NV 89511 | 775.826.9010
 4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3200
 pk-electric.com | PKR-K0001



**RSCVA CONVENTION CENTER
 ELECTRICAL SERVICE UPGRADE**
 4590 SOUTH VIRGINIA STREET
 RENO, NV 89502



NOTE:
 LIGHTING AS-BUILT DRAWING IS NOT TO SCALE AND PROVIDED TO
 DEPICT ELECTRICAL CONNECTIONS TO EXISTING LIGHTING WITHIN THE
 EVENT SPACE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO
 VERIFY ALL LIGHTING CIRCUITS PRIOR TO COMMENCING WORK.
 AS-BUILT RECORD DRAWING IS FOR REFERENCE ONLY.



A EXISTING LIGHTING PLAN
 E4.1 SCALE: 1" = 20'-0"

REVISIONS

SHEET TITLE
 EXISTING LIGHTING RECORD PLAN

DRAWN: SV
 CHECKED: JEG
 DATE: 4/12/24
 JOB NUMBER: 23115
 PROJECT MGR: SV

E4.1