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[www.ethoseng.net](http://www.ethoseng.net)

September 26, 2024

IDEA Public Schools - San Antonio Electrical and Lighting Upgrades IDEA Carver

## ADDENDUM NO. 2

### A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans for the project referenced above. This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered here in shall remain the same. The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

### B. SCOPE

#### I. Clarifications

##### Contractor Questions:

- 1) Do the plans show how exterior lighting is to be controlled?  
**Response: Exterior lighting controls for building "B", "C" & "E" are to be per detail #04/E8.01.**
- 2) Would the existing electrical outlets be required to be controlled per IECC?  
**Response: Per the City of San Antonio plans examiner department existing electrical outlets are not required to comply with the automatic control of the IECC.**

#### II. Specifications:

- 1) Section 000400 – Bid Proposal Form:
  - a) Revised bid form. See attached sheets.

#### III. Drawings:

- 1) Sheet ES1.01:
  - a) Revised Keyed Notes: See attached sheet.

- 2) Sheet E1.01:
  - a) Added Existing Conditions Notes: See attached sheet.
  
- 3) Sheet E6.01:
  - a) Revised Demolition- Lighting Plan (Building E): See attached sheet.
  
- 4) Sheet E8.01:
  - a) Revised Electrical Details: See attached sheet.



**000400 – BID PROPOSAL FORM**

**PROJECT TITLE:** San Antonio Electrical and Lighting Upgrades – IDEA Carver

**PROPOSAL NO:** CSP# 30-SAELU-0524

**DUE DATE, TIME & PLACE:** Monday, September 30, 2024 at 2:00 pm  
Idea Public Schools San Antonio Regional Office  
7035 San Pedro Ave., San Antonio, Texas 78216

**ESTIMATED COST:** \$550,000.00

1. The undersigned OFFEROR proposes and agrees, if this proposal is accepted, to enter into an Agreement with OWNER to provide and install Equipment and Materials as specified or indicated in the Contract Documents for the Contract Price and within the Contract, Time indicated in this Proposal and in accordance with the Contract Documents.
2. OFFEROR accepts all of the terms and conditions of the Instructions to Bidders and Supplementary Instructions to Bidders. This Proposal shall remain in effect for a period of no less than sixty (60) days after the date of Proposal opening.
3. In submitting this Bid, OFFEROR certifies that:

(a) OFFEROR has examined copies of all the Contact Documents and the following Addenda:

<u>Date</u>	<u>Number</u>
_____	_____
_____	_____
_____	_____

(receipt of all of which is hereby acknowledged) and also copies of the Advertisement or Invitation to Submit Proposal and the Instructions to BIDDERS; and

- (b) This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; OFFEROR has not directly or indirectly induced or solicited any other OFFEROR to submit a false or sham Bid; OFFEROR has not solicited or induced any person, firm or a corporation to refrain from proposing; and OFFEROR has not sought by collusion to obtain for himself any advantage over any other OFFEROR or over OWNER.
4. Project Deadlines and Penalties: This provision shall be enforced, except in the event of inclement weather, unnecessary delay caused by OWNER or his agent, or other natural disaster or Act of God beyond Contractor's control.
  - (a) For penalties, refer to AIA Contract between Owner and Contractor, along with all applicable amendments.
5. Communications concerning this Proposal shall be addressed to:

## 000400 – BID PROPOSAL FORM

Guillermo Quintanilla  
1126 South Commerce Street  
Harlingen, Texas 78550  
Phone: (956) 230-3435; Fax: (956) 720-0830  
Email: gquin@ethoseng.net

### NOTICE:

In determining the best value for the district, the district is not restricted to considering price alone but may consider any other factor stated in the selection criteria.

It is the intent of the OWNER to award a Contract to the OFFEROR that offers the best value for the OWNER, according to the following weighted selection criteria established by the OWNER.

The OWNER reserves the right to accept or reject any and/or all Bids, to accept the Proposal that, in the OWNER'S judgment, is in the OWNER'S best interest, and to waive informalities or irregularities in a Proposal received.

The OWNER will document the basis of its selection and will make the evaluations public not later than the seventh day after the date the contract is awarded.

Bids received from nonresident Offerors will be evaluated by the Owner as required by House Bill 620, 69th Legislature, 1985.

**000400 – BID PROPOSAL FORM**

OFFEROR will supply and install on-site mechanical/electrical equipment and services as specified in the Project Manual dated September 6, 2024, for the following price:

**BASE PROPOSAL:**

[Proposal amount includes Allowances as per specifications section 012100].

\$ \_\_\_\_\_ (number)

\_\_\_\_\_ (words)

**ALTERNATE PROPOSAL # 1:** Replacement of exterior light fixtures and all related electrical modifications as noted on plans.

\$ \_\_\_\_\_ (number)

\_\_\_\_\_ (words)

**ALTERNATE PROPOSAL # 2:** Replacement of exterior light poles and all related electrical modifications as noted on plans.

\$ \_\_\_\_\_ (number)

\_\_\_\_\_ (words)

**ALTERNATE PROPOSAL # 3:** Replacement of exterior lighting controls on building “C” & “E” and all related electrical modifications as noted on plans.

\$ \_\_\_\_\_ (number)

\_\_\_\_\_ (words)

**PROPOSED SUBSTANTIAL COMPLETION DATE of the project in its entirety.**

Our Proposal proposes to use the following Contractors, Subcontractors, Manufacturers, Products, Material Suppliers and Equipment Suppliers for the principal portions of the work.

NAME(S) OF SUB-CONTRACTORS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NAME(S) OF EQUIPMENT SUPPLIERS:

**000400 – BID PROPOSAL FORM**

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OTHER:

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**000400 – BID PROPOSAL FORM**

Name and Address of OFFEROR:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature

\_\_\_\_\_  
Name and Title  
\_\_\_\_\_  
\_\_\_\_\_

Telephone \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_\_ day of \_\_\_\_\_, 2024.

**SEAL**

\_\_\_\_\_  
Notary Public in and for the State of Texas

**SEAL** (If Proposal is By a Corporation)

\_\_\_\_\_

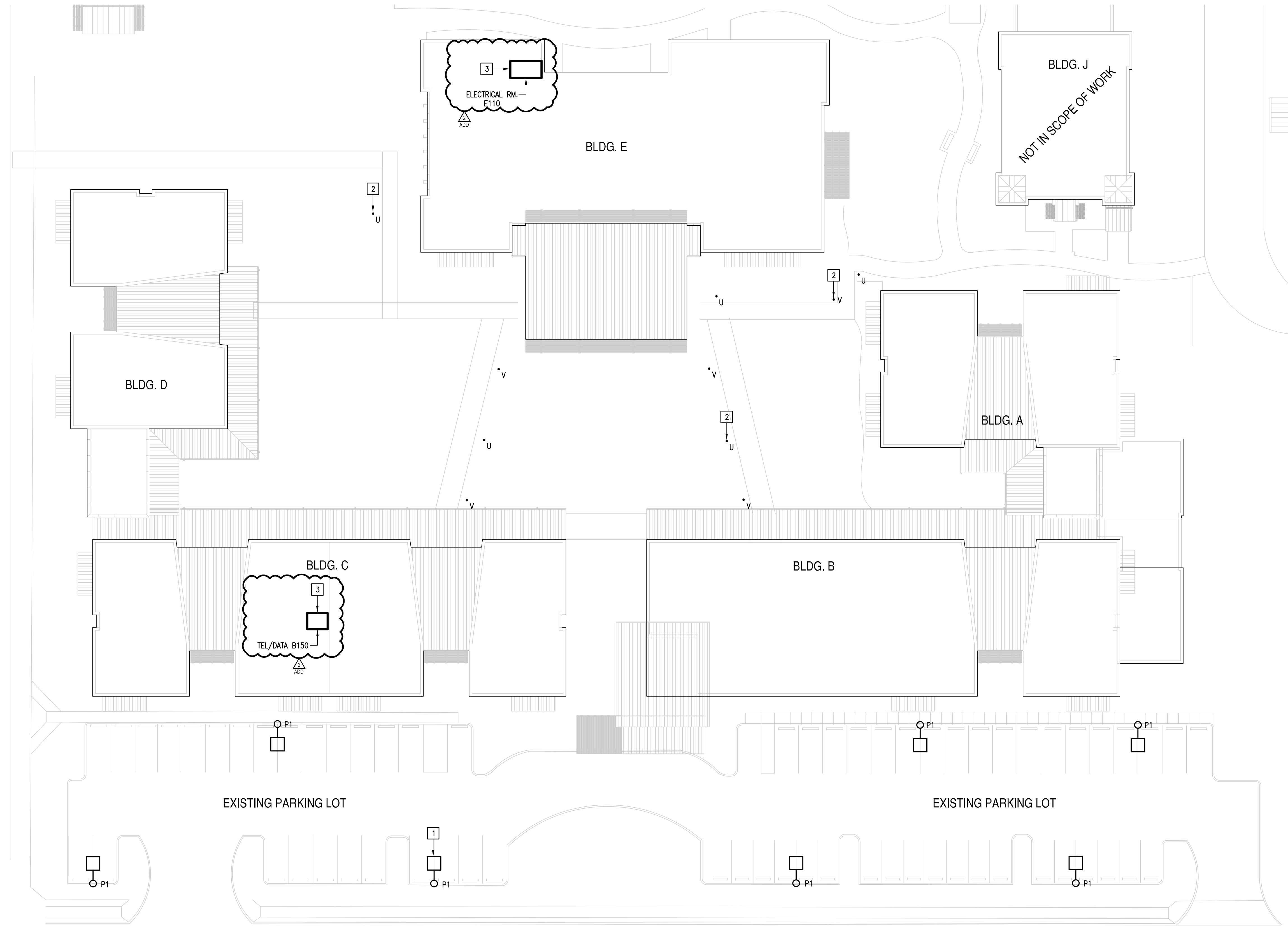


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 IDEA CARVER



KEYED NOTES:

- 1 ALTERNATE#2: DISCONNECT AND REMOVE EXISTING LIGHT POLE INCLUDING WIRING. PROVIDE NEW SOLAR LIGHT POLE AS SCHEDULE - TYPICAL.
- 2 ALTERNATE#1: PROVIDE NEW LED BULB LIGHT AS SCHEDULE - TYPICAL.
- 3 ALTERNATE#3: PROVIDE LIGHTING CONTACTOR. PROVIDE LUTRON RELAY POWER PAK AND WIRELESS SWITCH FOR TIME CONTROL AND OVERRIDE FOR EACH. FOR EXTERIOR LIGHTING CONTACTOR OVERRIDE - SEE DETAIL.



01 ELECTRICAL SITE PLAN  
 SCALE : 1" = 20'





## DEMOLITION GENERAL NOTES:

- PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER DRAWINGS AND SPECIFICATIONS.
- IF REMOVAL OF EXISTING ELECTRICAL SYSTEMS REQUIRES EXISTING ELECTRICAL SYSTEMS DOWNSTREAM TO REMAIN INOPERABLE, PROVIDE J-BOXES, CONDUIT WIRING AND SPLICES ABOVE ACCESSIBLE CEILINGS IN ORDER TO CONTINUE OPERATION.
- PROVIDE BLANK COVER PLATE FOR UNUSED BACK BOXES. PAINT TO MATCH EXISTING WALLS.
- WHERE WALL SWITCHES ARE INDICATED THE EXISTING LIGHT SWITCH(ES) & COVER PLATE(S) SHALL BE REMOVED.
- REMOVED MATERIALS SHALL BELONG TO OWNER. DELIVER THEM TO OWNER'S DESIGNATED LOCATION. IF OWNER DOES NOT WANT THE REMOVED MATERIALS THEN REMOVE THEM FROM SITE & PROPERLY DISPOSE OF THEM.
- CONTRACTOR SHALL PROVIDE AN INVENTORY OF ALL EXISTING LIGHTING PRIOR TO REMOVAL. CONTRACTOR SHALL NOTE BY ROOM THE LIGHT FIXTURE TYPE & QUANTITY, LAMP TYPE & QUANTITY PER FIXTURE. SUBMIT INVENTORY TO ENGINEER.
- TEMPORARILY REMOVE EXISTING CEILING TILES FOR DEMOLITION AND INSTALLATION OF NEW WIRING WHERE APPLICABLE. REINSTALL EXISTING CEILING TILES AFTER WORK HAS BEEN COMPLETED.
- PROVIDE BLANK WALL PLATES FOR EXISTING J-BOXES NO LONGER REQUIRED. PROVIDE COLOR FINISH TO MATCH EXISTING.
- IF REMOVAL OF EXISTING ELECTRICAL SYSTEMS REQUIRES EXISTING ELECTRICAL SYSTEMS DOWNSTREAM TO REMAIN INOPERABLE, PROVIDE J-BOXES, CONDUIT, WIRING AND SPLICES ABOVE CEILING IN ORDER TO CONTINUE OPERATION.

## CEILING DEMOLITION GENERAL NOTES:

- PRIOR TO REMOVAL OF CEILINGS REQUIRED FOR NEW LIGHTING & ELECTRICAL WORK PREPARE REFLECTED CEILING PLAN SKETCH SHOWING LOCATIONS OF ALL CEILING COMPONENTS AND DEVICES TO BE RE-USED INCLUDING BUT NOT LIMITED TO: EXISTING LIGHT FIXTURES, SPEAKERS, FIRE ALARM DEVICES, EMERGENCY LIGHTING, WIRELESS ACCESS POINTS, ETC. IF ANY OF THE ABOVE ITEMS ARE IN NON-WORKING CONDITION, SUBMIT A WRITTEN REPORT TO OWNER/ENGINEER.
- CONTRACTOR TO EVALUATE CEILING GRID CEILING TILES PRIOR TO REMOVAL AND DOCUMENT ALL BROKEN, CRACKED, MISSING TILES, ETC. AND PROVIDE REPORT TO OWNER AND ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING THEIR OWN ROUTES FROM POWER SOURCE.
- WHERE NEW CEILING MOUNTED LIGHT FIXTURES ARE INDICATED TO BE INSTALLED, CONTRACTOR SHALL REMOVE EXISTING CEILING TILE AND PROVIDE A NEW CEILING TYPE. (MATCH EXISTING)
- WHERE CEILING GRID MOUNTED DEVICES ARE EXISTING TO BE REMOVED, REPLACE EXISTING CEILING TILE OF REMOVED DEVICE. MATCH TYPE AND COLOR OF EXISTING TILES. ANY OTHER CEILING TILE THAT IS REMOVED OR BROKEN BY THE CONTRACTOR TO BE REPLACED.

## ELECTRICAL GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL BE UNDER THE MASTER ELECTRICIAN WHO PULLED THE PERMIT AND ITS JOURNEYMAN ELECTRICIANS.
- UNLESS NOTED OTHERWISE, MINIMUM POWER CIRCUIT IS TO BE #12 THWN WITH #12 GROUND IN 3/4" CONDUIT, WITH THE EXCEPTION THAT ANY CIRCUIT LONGER THAN 100 FEET SHALL BE MINIMUM #10 AWG WITH #10 GROUND WIRE. CIRCUIT LONGER THAN 200 FEET SHALL BE MINIMUM #8 AWG WITH #10 GROUND WIRE MINIMUM.
- ALL EXISTING ID NAMETAGS AND CIRCUIT IDENTIFICATION MUST BE REVISED TO REFLECT CURRENT CONDITIONS FOR ALL EQUIPMENT WHICH IS NEW, REPLACED, OR DEMOLISHED. REMOVE ID NAMETAGS FOR DEMOLISHED EQUIPMENT. REPLACE EXISTING NAMETAGS WITH NEW FOR REPLACED EQUIPMENT, IF REPLACEMENT EQUIPMENT HAS DIFFERENT NAME. PROVIDE NEW NAMETAGS FOR ALL NEW EQUIPMENT. ALL CIRCUIT BREAKER DIRECTORIES FOR PANELS IN WHICH NEW WORK TAKES PLACE ARE TO BE REPLACED WITH NEW DIRECTORIES WHICH LIST EXISTING CIRCUITS AND NEW. ALL UNUSED CIRCUITS ARE TO BE MARKED AS 'SPARE' IN THE DIRECTORIES. DIRECTORIES ARE TO BE COMPUTER GENERATED; NO HAND WRITTEN DIRECTORIES ARE ACCEPTABLE.
- HAND-WRITTEN CIRCUIT BREAKER DIRECTORIES WILL NOT BE ACCEPTED. DIRECTORIES MUST BE COMPUTER GENERATED AND PRINTED TO REFLECT FINAL INSTALLED CONDITIONS.
- MARK ALL J-BOXES WITH INDELIBLE INK, INDICATING POWER CIRCUITRY INFORMATION. LABEL ALL EQUIPMENT ITEMS PER SPECIFICATIONS.
- ALL EXTERIOR RACEWAYS ABOVE GROUND SHALL BE RIGID GALVANIZED.
- UNDER NO CIRCUMSTANCES SHALL MORE THAN THREE CIRCUITS SHARE THE SAME NEUTRAL, AND SUCH CIRCUITS MUST BE SEPARATE PHASE.
- SINCE ELECTRICAL CHARACTERISTIC OF EQUIPMENT (SUCH AS HORSEPOWER, KW, AMPERAGE, VOLTAGE, ETC.) SUBMITTED MAY DIFFER FROM THOSE SPECIFIED IN DRAWINGS, CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND OTHER CONTRACTORS TO ENSURE COMPATIBILITY BETWEEN ELECTRICAL AND MECHANICAL EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- USE LONG-SWEEPS FOR ALL CHANGES IN DIRECTION ON CONDUIT RUNS.
- ALL INTERIOR RACEWAYS SHALL BE EMT.
- FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
- PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH INTERCOM CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
- EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- WHERE NEW DIMMING CONTROLS ARE PROVIDED, PROVIDE NEW 0-10V WIRING IN RACEWAY TO EACH LIGHT FIXTURE AND DIMMING MODULE.

## CODES AND ORDINANCES:

- PERFORM ALL WORK PER CITY OF SAN ANTONIO APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS. 2021 INTERNATIONAL BUILDING CODE (IBC)  
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)  
2021 INTERNATIONAL FIRE CODE (IFC)  
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.

## COORDINATION:

- COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING STAGE.
- CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, EXISTING CONDITIONS, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- ALL WORK THAT COULD DISRUPT SCHOOL INSTRUCTION SHALL BE SCHEDULE FOR AFTER SCHOOL OR DURING HOLIDAY HOURS. COORDINATE SCHEDULING WITH SCHOOL PRINCIPAL.

## SPARE MATERIALS:

PROVIDE ADDITIONAL DEVICES DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED & THAT ARE PACKAGED WITH A PROTECTIVE COVERING FOR STORAGE & IDENTIFIED WITH LABELS DESCRIBING THE CONTENTS. INCLUDE THE INSTALLATION COST IN THE BID PROPOSAL.

- WIRELESS VACANCY SENSOR: 5% OF THE QUANTITY INSTALLED.
- WIRELESS CORNER VACANCY SENSOR: 5% OF THE QUANTITY INSTALLED.
- POWER PACK SWITCHING MODULE: 5% OF THE QUANTITY INSTALLED.
- WIRELESS ON/OFF SWITCH: 5% OF THE QUANTITY INSTALLED.
- WIRELESS DIMMING SWITCH: 5% OF THE QUANTITY INSTALLED.
- VACANCY WALL SENSOR SWITCH: 5% OF THE QUANTITY INSTALLED.
- DAYLIGHT CEILING SENSOR: 5% OF THE QUANTITY INSTALLED.
- PVC, EMT & RMC RACEWAYS: 500 FT OF 1" OF EACH TYPE TOTAL INCLUDING TRENCHING, HANGERS, ETC.
- LIGHT FIXTURES AND LAMPS: 5% OF THE QUANTITY INSTALLED.

## SCOPE OF WORK

- GENERAL: THE "SAN ANTONIO ELECTRICAL AND LIGHTING UPGRADES - IDEA CARVER" CONSISTS OF EXISTING SINGLE-STORY BUILDINGS. THESE BUILDINGS WILL GENERALLY BE OPERATED FROM 7:00AM TO 5:00PM. (MONDAY THROUGH FRIDAY) WITH OCCASIONAL AFTER HOURS AND WEEKENDS USE.
- ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO:
  - ELECTRICAL SERVICE: TO REMAIN AS IS.
  - DEMOLITION: DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND LAMPS AS NOTED ON DRAWINGS. DISPOSE OF LAMPS AND BALLAST.
  - INTERIOR LIGHTING SYSTEMS: PROVIDE NEW LED TYPE LIGHT FIXTURES AND OR NEW LED REPLACEMENT LAMPS AS NOTED ON PLANS.
  - EXTERIOR LIGHTING SYSTEMS: PROVIDE NEW LED TYPE LIGHT FIXTURES AND OR NEW LED REPLACEMENT LAMPS AS NOTED ON PLANS.
  - INTERIOR LIGHTING CONTROLS (SWITCHES, VACANCY SENSORS, DAYLIGHT SENSORS, ETC.): DISCONNECT AND REMOVE EXISTING LIGHTING CONTROLS. PROVIDE NEW AS NOTED ON PLANS. SPECIFICATIONS: IN SOME CASES, THEY WILL BE CEILING MOUNTED, AND OTHERS WALL MOUNTED. IT'S THE INTENT FOR THEM TO BE WIRELESS AND WIRED TO AUTOMATICALLY CONTROL THE LUMINAIRES IN THEIR RESPECTIVE AREAS.
  - EXTERIOR LIGHTING CONTROLS: DISCONNECT AND REMOVE EXISTING CONTROLS. PROVIDE NEW LIGHTING CONTACTORS CONTROLLED VIA NEW LIGHTING CONTROLS SYSTEM.
  - POWER SYSTEMS: PROVIDE MISCELLANEOUS DUPLEX RECEPTACLES FOR CONNECTING LIGHTING CONTROLS EQUIPMENT.
  - COMMISSIONING: PROVIDE FOR THE LIGHTING EQUIPMENT AND LIGHTING CONTROLS AS REQUIRED PER IECC 2021.



## EXISTING CONDITIONS

- EXISTING RECEPTACLES ARE TO REMAIN UNALTERED AND ARE NOT REQUIRED TO COMPLY WITH THE AUTOMATIC RECEPTACLE CONTROL OUTLINED BY IECC 2021 C503.1.
- NEW RECEPTACLES ARE FOR LIGHTING CONTROLS EQUIPMENT REQUIRING CONTINUOUS OPERATION (24 HOURS PER DAY, 365 DAYS PER YEAR) AND ARE EXCEPT FROM REQUIRING CONTROL OUTLINED BY IECC 2021 C405.11.

## ABBREVIATIONS:

ACL	ABOVE CEILING LINE	COND.	CONDUIT
AFF	ABOVE FINISHED FLOOR	GYP.	GYPSUM BOARD
B.	BOTTOM	ID	IDENTIFICATION
BLC.	BELOW CEILING LINE	NTS	NOT TO SCALE
C.	CONDUIT OR COMMON	RM.	ROOM
CLG.	CEILING OR COOLING	S.A.C.	SUSPENDED ACOUSTICAL CEILING
EMT	ELECTRICAL METALLIC TUBING	U.N.O	UNLESS NOTED OTHERWISE
EXP.	EXPOSED	RP	RELAY PANEL

## LIGHTING SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'X4' LIGHT FIXTURE - TYPE AS NOTED	----
	EMERGENCY 2'X4' LIGHT FIXTURE-TYPE AS NOTED CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	----
	2'X2' LIGHT FIXTURE - TYPE AS NOTED	----
	SURFACE/WRAPAROUND LIGHT FIXTURE	----
	SURFACE/WRAPAROUND EMERGENCY LIGHT FIXTURE CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	----
	SINGLE FACE EXIT SIGN CEILING OR WALL MOUNTING (DIRECTIONAL ARROWS WHERE INDICATED)	12" ABV. EGRESS OPENING
	DOUBLE FACE EXIT SIGN CEILING OR WALL MOUNTING (DIRECTIONAL ARROWS WHERE INDICATED)	12" ABV. EGRESS OPENING
	EMERGENCY LIGHTING UNIT	8'-0" AFF
	WALL MOUNT LIGHT FIXTURE - TYPE AS NOTED	----
	DOWN/PENDANT/SURFACE LIGHT FIXTURE - TYPE AS NOTED	----
	PENDANT/RECESSED LINEAR LIGHT FIXTURE - TYPE AS NOTED	----
	LIGHT POLE - TYPE AS NOTED	----

### NOTES:

- REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.

## GENERAL SYMBOL LEGEND:

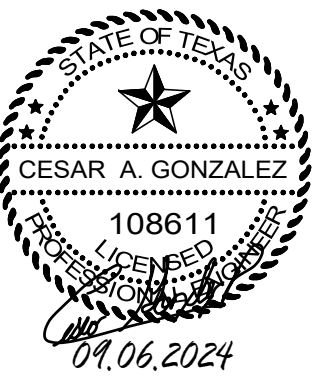
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
-----	UNDERGROUND RACEWAY	AS REQUIRED
-----	CONCEALED RACEWAY	AS REQUIRED
	CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL.	AS REQUIRED
	ELECTRICAL PANELBOARD - SURFACE MOUNTED	AS REQUIRED
	ELECTRICAL PANELBOARD - RECESSED/FLUSH MOUNTED	AS REQUIRED
	TIME CLOCK	AS REQUIRED
	LIGHTING CONTACTOR	AS REQUIRED
	DIGITAL OUTDOOR PHOTO CELL WALL MOUNTED	----

## LIGHTING CONTROL SYMBOLS:

SYMBOL	DESCRIPTION	
	WIRELESS VACANCY SENSOR - LUTRON MODEL #LRF2-OCR2B-P-WH	CLG.
	WIRELESS CORNER VACANCY SENSOR - LUTRON MODEL #LRF2-OKLB-P-WH	CLG.
	POWER PACK SWITCHING MODULE - LUTRON MODEL #RMJS-8T-DV-B	ABV. CLG.
	WIRELESS ON/OFF SWITCH - LUTRON MODEL #PJ2-2B-GWH-L01 (CW-1-WH)	48" AFF
	WIRELESS DIMMING SWITCH - LUTRON MODEL #PJ2-3BRL-GWH-L01 (CW-1-WH)	48" AFF
	VACANCY WALL SENSOR SWITCH - LUTRON MODEL #MS-OPS6M2-DV-WH (CW-1-WH)	48" AFF
	WIRELESS HUB - LUTRON HJS-2-FM	CLG.
	WIRELESS DAYLIGHT SENSOR - LUTRON LRF2-DCRB-WH	CLG.

### NOTES:

- 48" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE. REFERENCE LIGHTING CONTROL SCHEMATIC DETAILS FOR ALL LUTRON CONTROLS WIRING REQUIREMENTS.





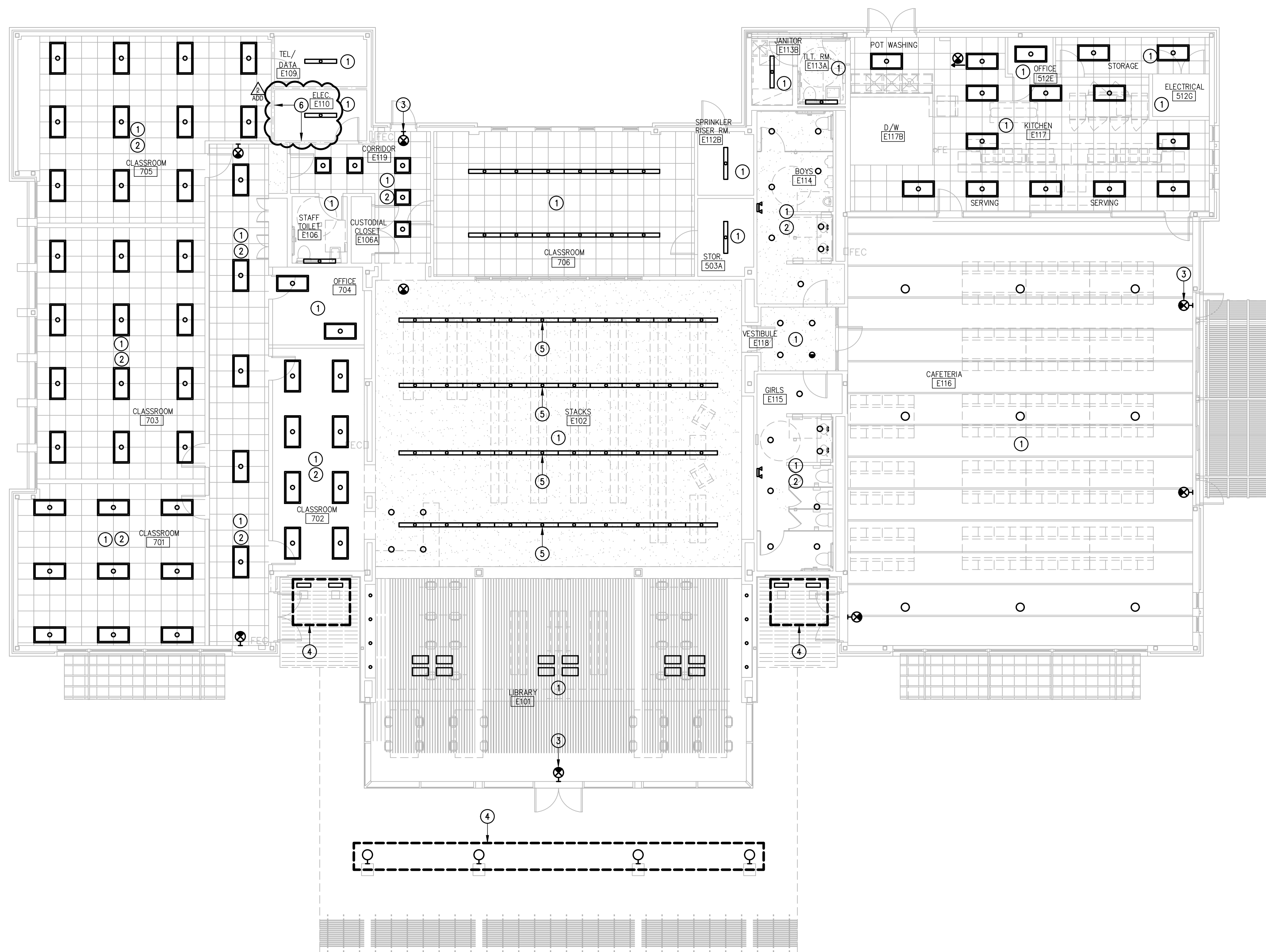


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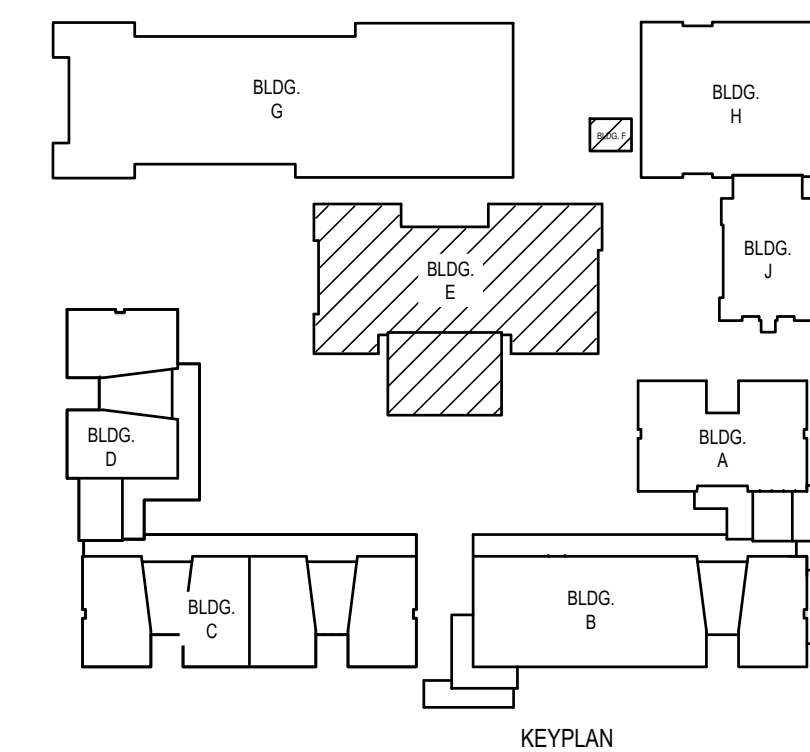


DEMOLITION KEYED NOTES:

- 1 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE, LIGHTING SWITCHES AND EMERGENCY LIGHT FIXTURE FOR REMOVAL - TYPICAL.
- 2 DISCONNECT AND REMOVE EXISTING OCCUPANCY SENSOR AND ASSOCIATED POWER PACK.
- 3 DISCONNECT AND REMOVE EXISTING EXIT LIGHT FIXTURE - TYPICAL.
- 4 ALTERNATE#1: DISCONNECT AND REMOVE EXISTING EXTERIOR LIGHTING FIXTURE FOR REPLACEMENT - TYPICAL.
- 5 DISCONNECT AND REMOVE FLUORESCENT BALLAST. NEW LED LAMPS TO BE CONNECTED LINE VOLTAGE.
- 6 DISCONNECT AND REMOVE EXISTING REMOTE BALLAST LOCATED ON SOUTH AND WEST WALLS. PROVIDE A J-BOX, WIRING AND CONDUIT FOR COMPLETING CIRCUIT. FIELD CONFIRM CORRESPONDING LIGHT FIXTURES PRIOR TO REMOVAL.



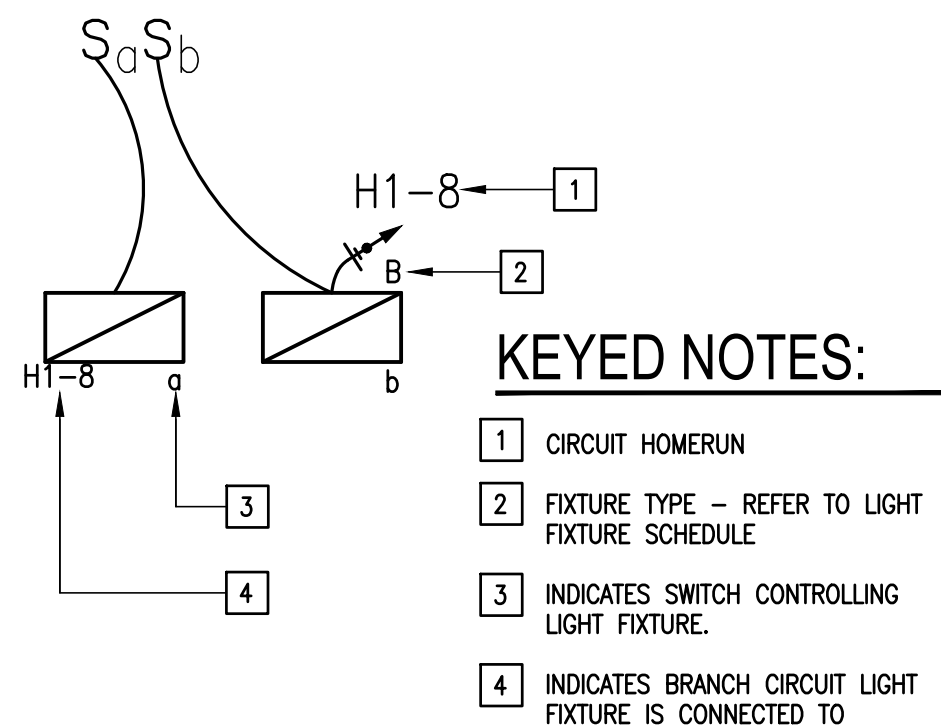
IDEA CARVER  
 01 DEMOLITION - LIGHTING PLAN (BUILDING E)  
 SCALE: 1/8" = 1'-0"





NOTES:

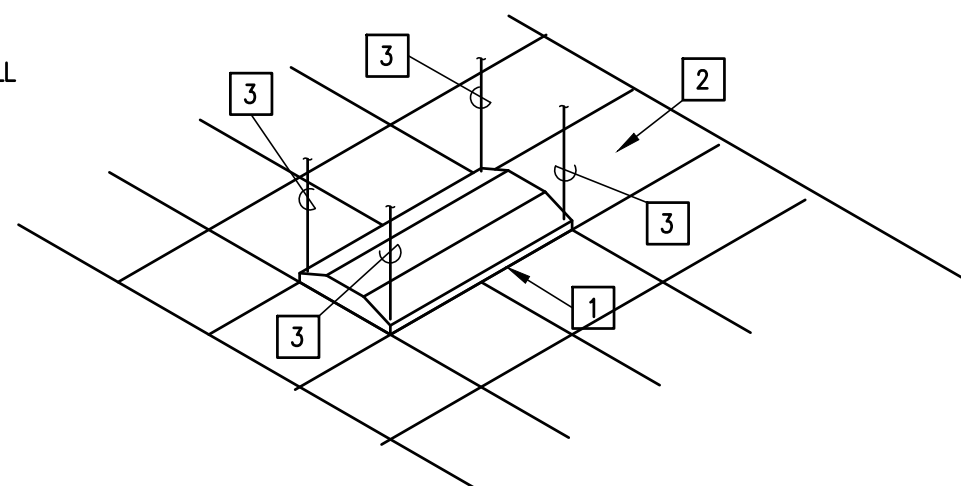
1. INSTALL ALL ROUGH-INS IN STRICT ACCORDANCE WITH MANUFACTURER PUBLISHED TEMPLATES. PROVIDE MOCK-UP FOR OWNER REPRESENTATIVE APPROVAL.
2. TEMPLATE TO BE PROVIDED BY PROJECTOR MANUFACTURER/OWNER. COORDINATE WITH OWNER PRIOR TO ANY ROUGH-IN.
3. ROUGH-INS ARE LOCATED ON LEFT OR RIGHT HAND SIDE OF MARKER BOARD. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.
4. PROVIDE A DATA CONNECTOR AND CAT6 WIRING AT PROJECTOR MOUNT.



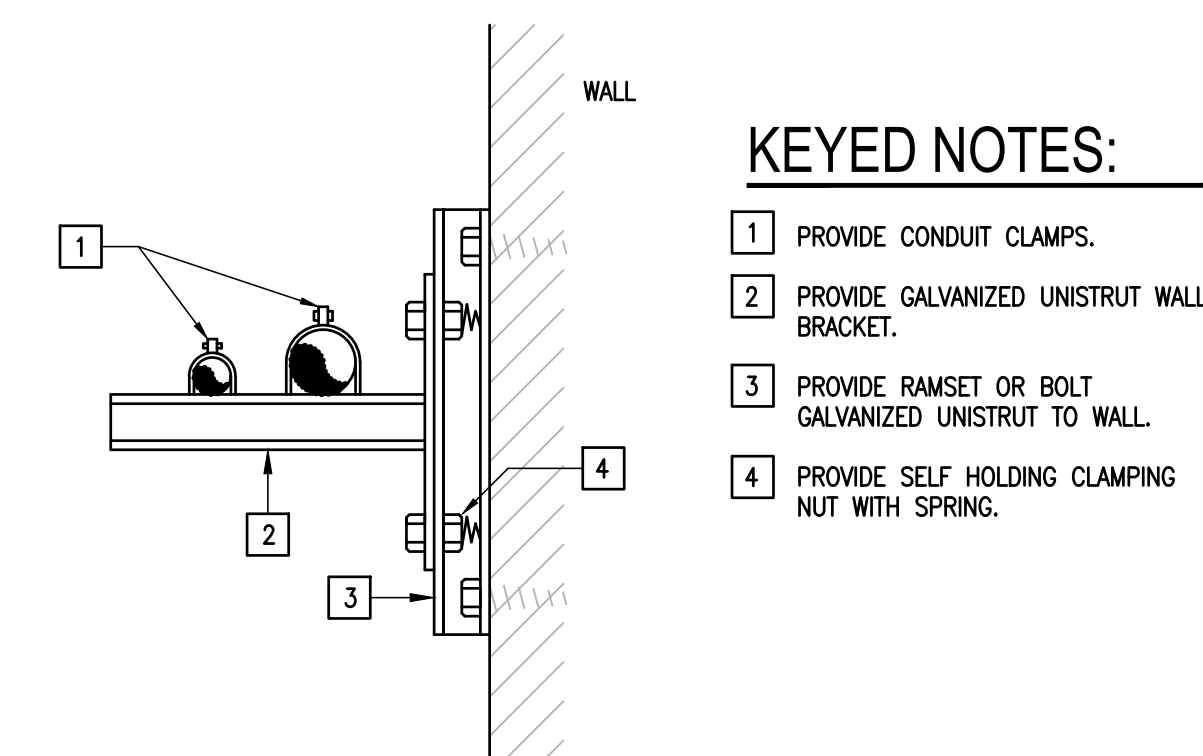
01 LIGHTING LEGEND DETAIL  
 SCALE: NOT TO SCALE

KEYED NOTES:

1. PROVIDE 2'x4' AND OR 2'x2' LAY-IN LED FIXTURE
2. SUSPENDED CEILING
3. PROVIDE TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS. ALL TIE WIRES TO BE PAINTED ORANGE OR OTHER EFFECTIVE MEANS OF IDENTIFICATION SO OTHER TRADES CANT BE ATTACHED TO IT.



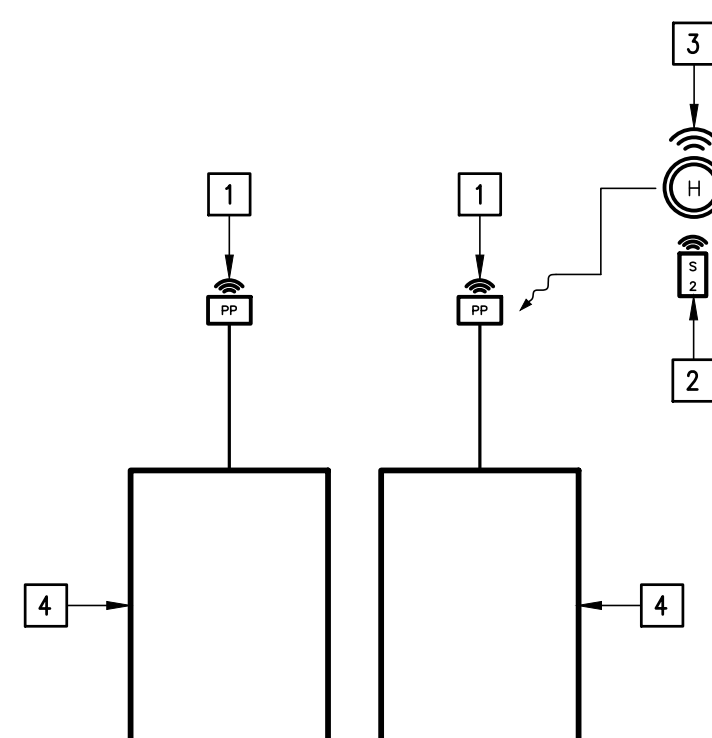
02 TYPICAL LAY-IN FIXTURE SUPPORT  
 SCALE: NOT TO SCALE



03 RACEWAY RUNS SUPPORT DETAIL  
 SCALE: NOT TO SCALE

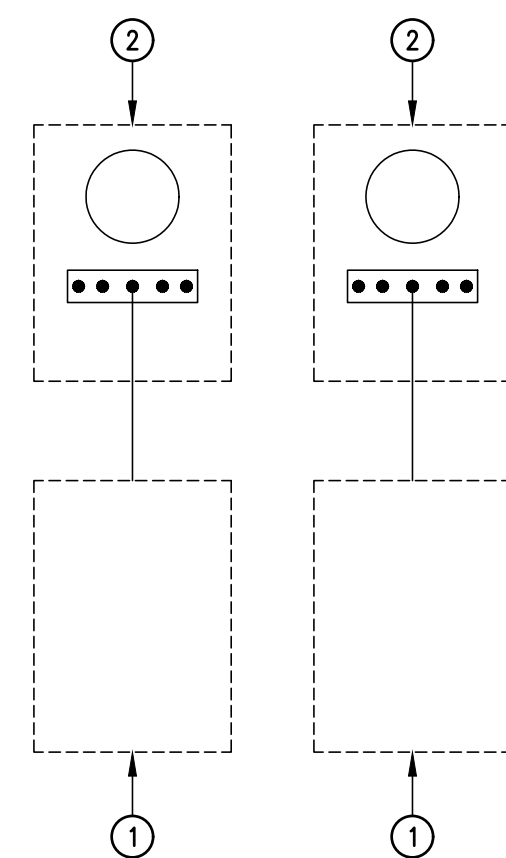
UPGRADES KEYED NOTES:

1. PROVIDE POWER PACK FOR CONTROLLING LIGHTING CONTACTOR.
2. PROVIDE LUTRON WIRELESS PICO SWITCH FOR LIGHTING CONTACTOR OVERRIDE.
3. TIME SCHEDULES FOR CONTACTORS VIA LUTRON VIVE HUB.
4. PROVIDE NEW 277V, 30A, 6-POLE, ELECTRONICALLY HELD LIGHTING CONTACTOR. RECONNECT EXISTING BRANCH CIRCUITS.

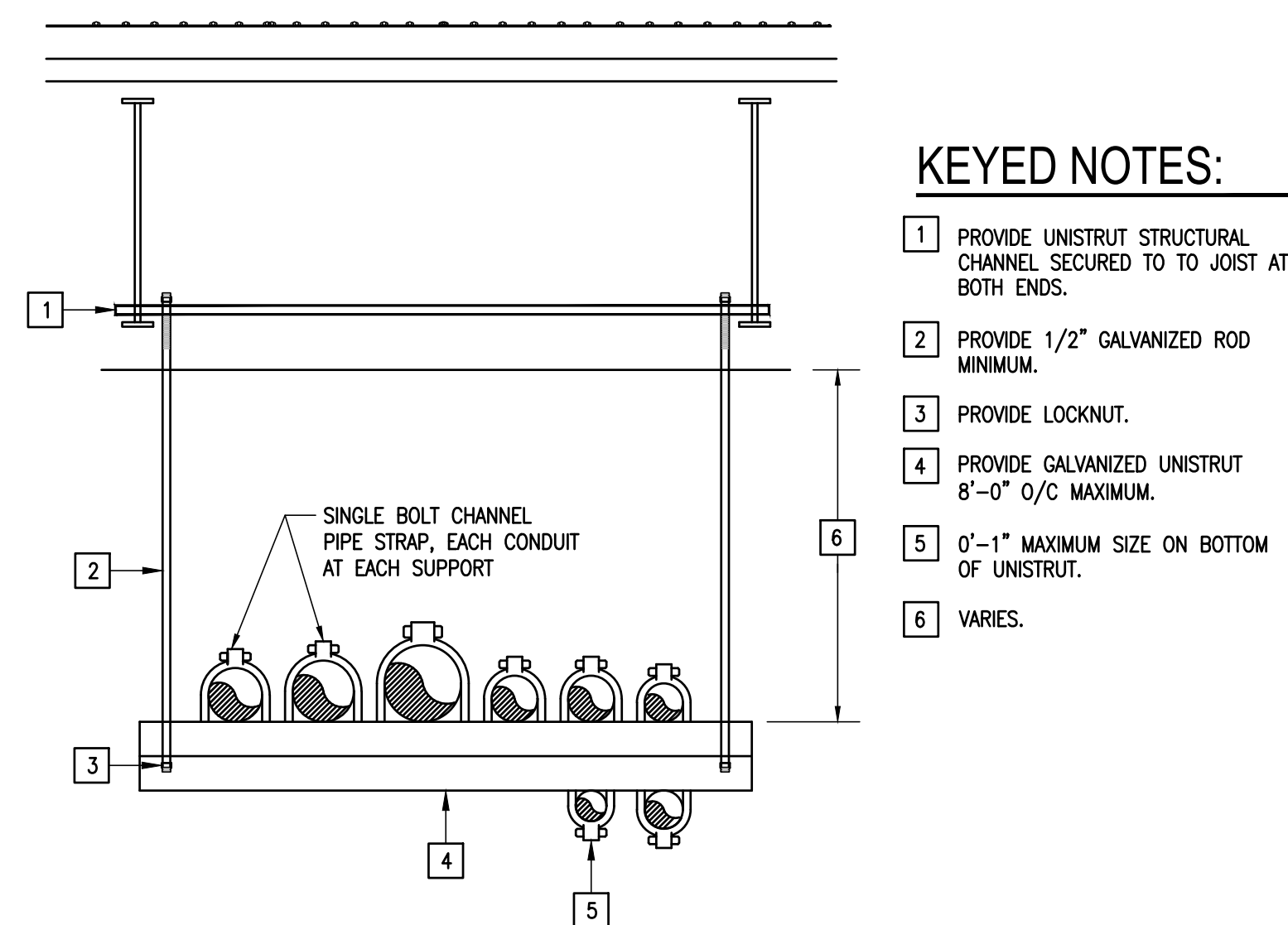
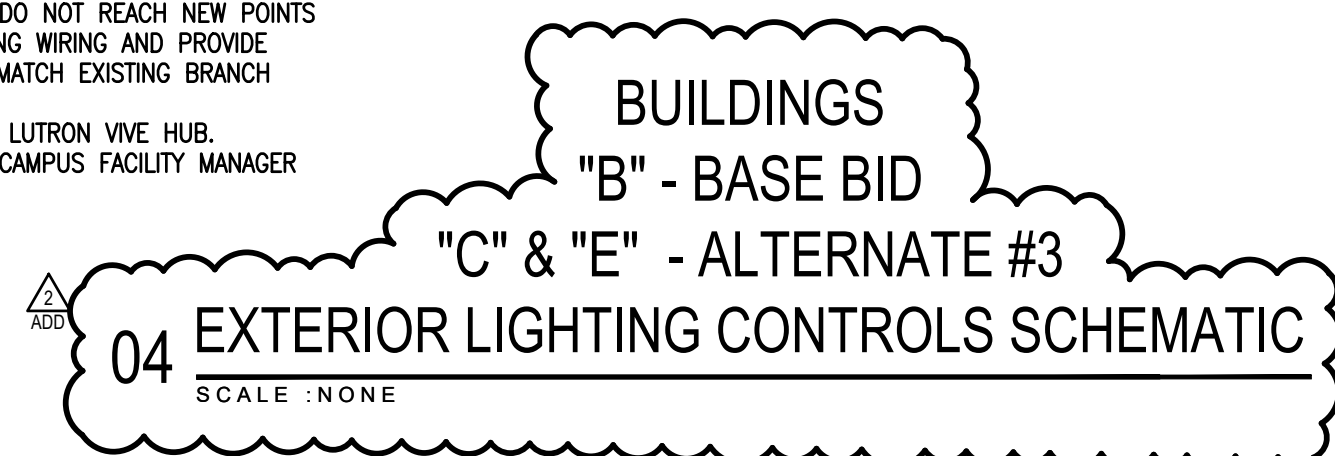


DEMOLITION KEYED NOTES:

1. DISCONNECT AND REMOVE EXISTING LIGHTING CONTACTOR TEMPORARILY DISCONNECT EXISTING BRANCH CIRCUITS.
2. DISCONNECT AND REMOVE EXISTING ELECTROMECHANICAL TIME CLOCK ALONG WITH RELATED SUPPORT HARDWARE, RACEWAYS AND WIRING.



- GENERAL UPGRADES NOTES:**
1. QUANTITY OF EXISTING CIRCUITS VARY BY BUILDING FIELD VERIFY.
  2. IF EXISTING BRANCH CIRCUITS DO NOT REACH NEW POINTS OF CONNECTION SPLICE EXISTING WIRING AND PROVIDE NEW WIRING AS NECESSARY. MATCH EXISTING BRANCH CIRCUITS WIRE SIZES.
  3. NEW TIME CONTROL TO BE VIA LUTRON VIVE HUB. COORDINATE SCHEDULES WITH CAMPUS FACILITY MANAGER (FM).



05 HORIZONTAL RACEWAYS SUPPORT DETAIL  
 SCALE: NOT TO SCALE