BUILDING B1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

ABBREVIATIONS LIST

A:	
&	AND
A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACC.	ACCESSIBLE
ACOUST.	ACOUSTICAL
A.A.	AREA DRAIN
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGGR.	AGGREGATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
B:	
B&B	BOARD AND BATTEN
BD.	BOARD
BLDG.	BUILDING
BLK'G.	BLOCKING
BM.	BEAM
B.M.	BENCH MARK
BTTM.	BOTTOM
B.U.R.	BUILT UP ROOFING
C:	
C.B.	CATCH BASIN
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
CLF	CHAIN LINK FENCE
CLG.	CEILING
CLR.	CLEAR
CLKG.	CAULKING
CNTR.	COUNTER
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDITION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
C.O.T.G.	CLEAN OUT TO GRADE
C.A.	CONTROL POINT
CTSK.	COUNTERSUNK
D:	
DBL.	DOUBLE
D.F.	DRINKING FOUNTAIN
DEPT.	DEPARTMENT
DTL.	DETAIL
D.I.	DROP INLET
DIAG.	DIAGONAL
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
D.S.	DOWN SPOUT
D.S.P.	DRY STANDPIPE
DWG.	DRAWING

E:	
E	EAST
(E)	EXISTING
EA.	EACH
E.D.F.	ELECTRIC DRINKING FOUNTAIN
E.F.	EXHAUST FAN
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXPO.	EXPOSED
EXP.	EXPANSION
EXT.	EXTERIOR
F:	
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.C.	FRAMING CLIP
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.	FINISH FACE
F.E.	FIRE EXTINGUISHER
F.L.	FLOW LINE
FLR.	FLOOR
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.W.	FACE OF WALL
F.P.	FIREPROOF
F.R.P.	FIBERGLASS REINFORCED PANEL
F.O.S.	FACE OF STUD
F.S.D.	FIRE SMOKE DAMPER
FT.	FOOR OR FEET
FTG.	FOOTING
F.V.	FIELD VERIFY
G:	
GA.	GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GLU-LAM	GLUE LAMINATER
GND.	GROUND
GYP. BD.	GYPSUM WALLBOARD

H:	
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDBD.	HARDBOARD
HDWE.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
I-J-K-L:	
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY
INSUL.	INSULATION
INT.	INTERIOR
J.B.	JUNCTION BOX
J.H.	JOIST HANGER
JT.	JOINT
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LT.	LIGHT
L.H.	LEFT HAND
M:	
MAX.	MAXIMUM
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTL.	METAL
N:	
N.	NORTH
(N)	NEW
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O:	
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD OR OVERHANG
OPNG.	OPENING
OPP.	OPPOSITE
O/	OVER

P:	
PART.	PARTITION
P.B.	PANIC BAR
P.L.	PROPERTY LINE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
P.M.	PRESSED METAL
P.O.C.	POINT OF CONNECTION
PR.	PAIR
PROP.	PROPERTY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
Q-R	
Q.T.	QUARRY TILE
R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
R.E.	RIM ELEVATION
REBAR	REINFORCING BAR
REF.	REFERENCE
REQ'D.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
S:	
S.	SOUTH
S.B.	SPLASH BLOCK
S.D.	STORM DRAIN
SEC.	SECURITY
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.M.S.	SHEET METAL SCREW
SPEC'S.	SPECIFICATIONS
SQ.	SQUARE
S.STL.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
S.S	SANITARY SEWER
S/S	SERVICE SINK
SUSP.	SUSPENDED
SYM.	SYMMETRICAL

T:	
T.O.C.	TOP OF CURB
T&G	TOUNGE & GROOVE
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FRAMING
T.O.S.	TOP OF STEEL
TOT.	TOTAL
T.O.W.	TOP OF WALL
T.P.	TOP OF PAVING
TS	STRUCTURAL TUBE
TYP.	TYPICAL
U:	
U.N.O.	UNLESS NOTED OTHERWISE
UNF.	UNFINISHED
V:	
V.C.T.	VINYL COMPOSITION TILE
V.C.F.	VINYL COATED FABRIC
VEN.	VENDER
VERT.	VERTICAL
V.T.B.	VINYL TABK BOARD
V.W.C.	VINYL WALL COVERING
W:	
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W.H.	WATER HEATER
W.M.	WATERPROOF MEMBRANE
W/O	WITHOUT
W.R.	WATER RESISTANT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

GENERAL NOTES

1. ALL WORK IS NEW UNLESS SPECIFICALLY NOTED AS EXISTING. ALL WORK SHALL BE BY G.C. UNLESS SPECIFICALLY NOTED BY OWNER, BY OTHERS, OR BY N.I.C.
2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO HIS BID TO DETERMINE ACTUAL JOB SITE CONDITIONS AND REQUIRED EXTENT OF WORK FOR THIS PROJECT.
3. CONTRACTOR SHALL VERIFY SOLANO COMMUNITY COLLEGE DISTRICT (S.C.C.D.) REQUIREMENTS FOR WORK HOURS, ETC. WITH S.C.C.D. PROJECT MANAGER PRIOR TO BIDDING AND COMMENCEMENT OF WORK. CONTRACTOR SHALL COMPLY WITH ALL S.C.C.D. REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE A JOB SITE PHONE & EMAIL WITHIN 5 WORKING DAYS AND INFORM ARCHITECT OF PHONE NUMBER AT CONSTRUCTION KICK-OFF MEETING. G.C. SHALL MAINTAIN A COMPUTER W/ EMAIL CAPABILITIES ON SITE AT ALL TIMES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND NOTING ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS PRIOR TO BIDDING THE PROJECT. CONTRACTOR SHALL CONTACT ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH RELATED WORK. OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR CORRECTIONS AT NO EXTRA COST TO OWNER.
6. G.C. SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL FINISH MATERIALS & EQUIPMENT AS SPECIFIED HEREIN. ANY DEVIATION IN COST DUE TO SHIPPING DELAYS, MATERIAL UPGRADES, SHALL BE BORN BY THE G.C. ALL MATERIALS NOT IDENTIFIED AS PROBLEMS PRIOR TO BID, SHALL BE THE RESPONSIBILITY OF THE G.C. TO SUPPLY AS NOTED ON THE BID FORM.
7. ALL DEMOLITION IS INCLUDED IN THE BASE BID. CONTRACTOR SHALL PROVIDE ALL DEMOLITION NECESSARY TO COMPLETE ALL NEW WORK AS INDICATED ON THE PLANS.
8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ADJACENT WORK AND SHALL COORDINATE WITH ALL OTHER TRADES SO AS TO FACILITATE THE GENERAL PROGRESS OF THE WORK. EACH TRADE SHALL AFFORD ALL OTHER TRADES EVERY REASONABLE OPPORTUNITY FOR THE INSTALLATION OF THEIR WORK AND FOR THE STORAGE OF THEIR MATERIAL.
9. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND QUANTITIES OF ITEMS TO BE REMOVED/REPLACED OR TO BE REINSTALLED PRIOR TO SUBMITTAL OF BID. G.C. SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO THE BID DUE DATE FOR FURTHER CLARIFICATION - AS DEFINED IN BID INSTRUCTIONS.
10. G.C. WILL BE HELD RESPONSIBLE FOR COMPLETION OF ENTIRE WORK IN A MANNER/INTENT FOR THIS TYPE OF PROJECT REGARDLESS OF QUANTITIES SHOWN IN PLANS
11. ANY EXISTING ITEMS SHOWN WITHOUT NOTATION FOR REMOVAL SHALL BE PROTECTED THROUGHOUT DEMOLITION AND RENOVATIONS. G.C. WILL BE REQUIRED TO REPLACE ANY/ALL ITEMS TO REMAIN THAT ARE DAMAGED BY WORK AT NO ADDITIONAL COST TO S.C.C.D. AND ALSO AT A QUALITY LEVEL EQUAL TO OR EXCEEDING THE ORIGINAL CONDITIONS.
12. SEE ALSO ENGINEERED DRAWINGS FOR FULL EXTENT OF THE DEMOLITION WORK.
13. ITEMS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY BY THE G.C. UNLESS OTHERWISE NOTED.

OWNER

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FAIRFIELD, CA 94534
CONTACT: AMAN SHIRZAI
DIRECT: (916) 693-9827
EMAIL: aman.shirzai@solano.edu

ARCHITECT

HMR ARCHITECTS
2130 21st STREET
SACRAMENTO CA 95818
OFFICE: (916) 736-2724
CONTACT: GRANT WATKINS
EMAIL: grantw@hmrarchitects.com

ELECTRICAL ENGINEER

EDGE ELECTRICAL CONSULTING
400 R STREET, SUITE 333
SACRAMENTO CA 95811
OFFICE: (916) 256-2460
CONTACT: GORDON WONG
EMAIL: Gordon@EDGE-eConsulting.com

SCOPE OF WORK

1. REPLACE (E) LIGHT FIXTURES THROUGHOUT BUILDING, LIKE FOR LIKE. CEILINGS ARE TO REMAIN.
2. REPLACE (E) DAMAGED CEILING TILES AS NEEDED.
3. REPLACE (E) LIGHTING CONTROLS.
4. PATCH AND PAINT ANY WALLS AS NEEDED IN AREAS WITH ANY REMOVED DEVICES.

DEFERRED APPROVAL

NONE

INSPECTOR

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. CLASS 3 INSPECTOR REQUIRED.

SHEET INDEX

ARCHITECTURAL

ELECTRICAL

TOTAL SHEETS = 25

PROJECT CODE DATA

CODE 2025 CBC

CONSTRUCTION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE REGULATIONS, INCLUDING THE FOLLOWING:

2025 CALIFORNIA ADMINISTRATIVE CODE, CCR, TITLE 24, PART 1
2025 CALIFORNIA BUILDING CODE, VOL. 1 & 2, CCR, TITLE 24, PART 2
2025 CALIFORNIA RESIDENTIAL CODE, CCR, TITLE 24, PART 2.5
2025 CALIFORNIA ELECTRICAL CODE, CCR, TITLE 24, PART 3
2025 CALIFORNIA MECHANICAL CODE, CCR, TITLE 24, PART 4
2025 CALIFORNIA PLUMBING CODE, CCR, TITLE 24, PART 5
2025 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6
2025 CALIFORNIA FIRE CODE, CCR, TITLE 24, PART 9
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11
2025 CALIFORNIA EXISTING BUILDING CODE, CCR, TITLE 24, PART 10
STATE FIRE MARSHAL REGULATIONS, CCR, TITLE 19, PUBLIC SAFETY

NFPA 13:	INSTALLATION OF SPRINKLER SYSTEMS,	2025 EDITION
NFPA 14:	INSTALLATION OF STANDPIPE & HOSE SYSTEMS,	2024 EDITION
NFPA 17:	DRY CHEMICAL EXTINGUISHING SYSTEMS,	2024 EDITION
NFPA 20:	STATIONARY PUMPS FOR FIRE PROTECTION,	2022 EDITION
NFPA 24:	PRIVATE FIRE MAINS & THEIR APPURTENANCES,	2022 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE,	2025 EDITION
NFPA 2001:	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS,	2022 EDITION

OCCUPANCY CLASSIFICATION AND USE:	A2.1, A-3, B, M
BUILDING CONSTRUCTION TYPE:	III-A
NUMBER OF STORIES:	ONE STORY
BUILDING AREA IN SQUARE FEET:	30,976 SF
FIRE SPRINKLERED:	NO
FIRE ALARM :	YES
YEAR BUILDING WAS CONSTRUCTED:	1969, ADDITION 2007
IS THE BLDG. IN A HIGH FIRE HAZARD SEVERITY ZONE:	NO

FIRE SAFETY CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC CHAPTER 33

DESIGN CRITERIA FOR WIND AND SEISMIC

WIND:
RISK CATEGORY III
BASIC DESIGN WIND SPEED, V = 99 MPH
EXPOSURE = C

SEISMIC:
RISK CATEGORY III
SEISMIC DESIGN CATEGORY D
I = 1.25

SS = 1.506
S1 = 0.6
SDS = 1.205

SYMBOLS LEGEND

CONCRETE
CONCRETE BLOCK
A.C. PAVING
CERAMIC TILE OR BRICK
SAND MORTAR OR PLASTER
AGGREGATE
EARTH
METAL
PLYWOOD
GYPSUM BOARD
GLASS
WOOD FRAMING (CONT. MEMBER)
WOOD FRAMING (BLOCKING)
WOOD MEMBER (FINISHED)
INSULATION
ROOM NUMBER
WINDOW TYPE
DOOR NUMBER
GRID LINE/NUMBER
GRID CENTER LINE/NUMBER
SECTION NUMBER / SHEET WHERE SECTION IS DRAWN
DETAIL NUMBER / SHEET WHERE DETAIL IS DRAWN
LOCATION NUMBER / SHEET WHERE ENLARGED PLAN IS DRAWN
ELEVATION NUMBER / SHEET WHERE ELEVATION IS DRAWN
EQUIPMENT NUMBER
PARTITION TYPE
KEYNOTE
REVISION NUMBER
MATCH LINE
DATUM, WORK OR CONTROL NUMBER
ANGLE
DIAMETER OR ROUND
PERPENDICULAR
POUND OR NUMBER
CENTERLINE
PLATE OR PROPERTY LINE

NOTE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR.

SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).

TESTING

THIS PROJECT DOES NOT CONTAIN ANY STRUCTURAL ITEMS (CONCRETE, ANCHORS, STEEL OR WELDING) THAT REQUIRES TESTING OR INSPECTIONS.

VICINITY MAP

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

LICENSED ARCHITECT — No. 24706 — REN. 12/31/25 — STATE OF CALIFORNIA

BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

COVER SHEET

FEBRUARY 20, 2026

DRAWN BY:	GW
CHECKED BY:	KD
JOB NO.	25072

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DEMOLITION

PART 1 – GENERAL

1.01 DEFINITION OF "NEW WORK":

A. It is the specific intent of these construction documents that all work shown, indicated or similarly noted in the construction documents shall be considered new unless specifically noted as "existing", "(E)", "existing to remain", or "NIC" (not in contract). New work is typically not designated within the drawings by the symbol "(N)", although it may appear in some specific locations to clarify the work description.

1.02 DESCRIPTION

A. Furnish all materials, labor, equipment and services necessary and incidental to the completion of building and site demolition work as shown on the drawings and as specified herein.

B. Demolition requirements are shown or implied throughout the construction documents. Provide all demolition work necessary to complete the Work shown in these construction documents, whether or not specific demolition requirements are indicated. Review all documents for a full and complete understanding of demolition, salvage/reuse, relocation and modification of systems or components.

C. Demolition shall include careful disassembly and salvage of components in addition to general demolition.

D. Provide removal and containment of asbestos- and lead-containing materials necessary to execute the Work.

1.03 RELATED SECTIONS:

A. The requirements of Division 1 apply to the Work of this Section.

B. Section 01010: Summary of Work

1.04 QUALITY ASSURANCE

A. Obtain and pay for any bonds, licenses, state environmental authorization, etc., required for Building Demolition Work.

B. Building demolition work shall be accomplished in strict accordance with all local and state building codes, requirements and regulations including but not limited to noise abatement, dust control, classification of disposal materials, etc.

C. Demolition/salvage work shall be performed with minimum damage to existing work to remain.

D. The utmost care shall be taken to maintain the safety of the public and continued operation of essential campus functions. Provide temporary barricades where required to protect students, faculty and property, while maintaining critical school operations such as intrusion alarms, fire alarms, heating, etc.

1.05 JOB CONDITIONS

A. Obtain from the District a set of original "as built drawings" for all components of the school and maintain on site at all times.

B. An attempt has been made to show all existing structures, utilities, etc., in their approximate location on the survey and/or working drawings; however, others that are not shown may exist and may be found upon visiting the site or during the demolition work. Accurately locate and determine extent of existing site elements. Demolition contractor shall totally responsible for reviewing District as-built plans for the entire site and all structures prior to commencing any demolition work.

C. Report existing elements not shown on the working drawings to the Architect of Record so that the proper dispensation of that element may be determined.

PART 2 – PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 GENERAL

A. Preparation:
1. Provide, erect and maintain temporary barriers, chain link fences, and security devices as required. Protect all existing, structures, utilities and site elements which are not indicated to be demolished.
2. Notify all affected utility companies and local authorities and agencies prior to beginning the work.

B. Environmental Requirements
1. Comply with all anti-pollution ordinances.
2. Noise producing activities shall be held to a minimum. Internal combustion engines and compressors, etc., shall be equipped with mufflers to reduce noise to a minimum. Comply with all noise abatement ordinances. Work shall be restricted from 7:00 AM to 5:00 PM daily unless special permission is obtained from the district representative.
3. Trucks leaving the site shall do so in such a manner that demolition debris will not be deposited on adjacent street pavements. This contractor shall promptly remove any demolition debris deposited on street pavements.
4. Dust: Operations generating dust shall be controlled by use of wetting truck to prevent the release of dust into the atmosphere. Wetting operations shall be continuous while all dust generating work is in progress. Keep all areas within the demolition area sufficiently dampened to prevent dust from rising due to demolition.

C. Protection and Shoring:
1. Any damage done by this contractor to existing structures, utilities, data lines, pipe lines, etc. indicated to remain, shall be repaired by him and at his expense in a manner acceptable to the District of the damaged property. This contractor shall report any existing damage prior to the beginning of work.
2. All temporary shoring, bracing, etc., and maintenance thereto required for the completion of demolition work shall be provided by the General Contractor.
3. Ensure provision of adequate bracing, shoring, temporary cross over for pedestrian and vehicular traffic including guard rails, lamps, warning signs and flags as required by agencies having jurisdiction and as directed by the District. Remove same when necessity for protection ceases.

D. Performance
1. Coordinate demolition work with the District to maintain critical campus functions.
2. Critical Systems: Maintain existing critical systems within the school such as fire alarm, intrusion alarm, communication system and heating controls until such time as the new system is in place and the change over can be made without interruption to above systems.
3. Maintain in operating condition active utilities encountered.
4. Exercise extreme caution in removing any fixtures, ceiling material and utilities above and below grade to prevent damage to existing utilities which are to remain in service. Existing utilities which are in any way damaged shall be repaired at no additional cost to the District.
5. All materials from building demolition will be considered "waste" and shall be removed from the site. Waste material shall be removed from the site daily and not allowed to accumulate.
   a. No burning or burying of waste material will be permitted.
   b. Do not use District dumpsters.

E. Protect any existing and/or adjacent structures and appurtenances that are not to be demolished. Prevent movement or settlement. Provide bracing and shoring as required.

F. Cease operations immediately if adjacent structures appear in danger. Notify IOR, District Representative and Architect of Record. Do not resume operations until directed.

G. Continuously dampen structures and other demolition areas to prevent dust from rising during demolition or waste removal. Provide hoses and/or water trucks as required. Cover all trucks prior to them leaving the site as required by state and county requirements.

J. Carefully remove and store on site any existing light fixtures removed. The contractor is to store for a minimum of 3 weeks in order for the School District to salvage existing fixtures or parts they deem appropriate. The contractor shall dispose of the remainder of the fixtures.

END OF SECTION

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

LICENSED ARCHITECT
No. 24706
REN. 12/31/25
STATE OF CALIFORNIA

BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

SPECIFICATIONS

FEBRUARY 20, 2026

DRAWN BY: GW
CHECKED BY: KD
JOB NO. 25072

A0.1

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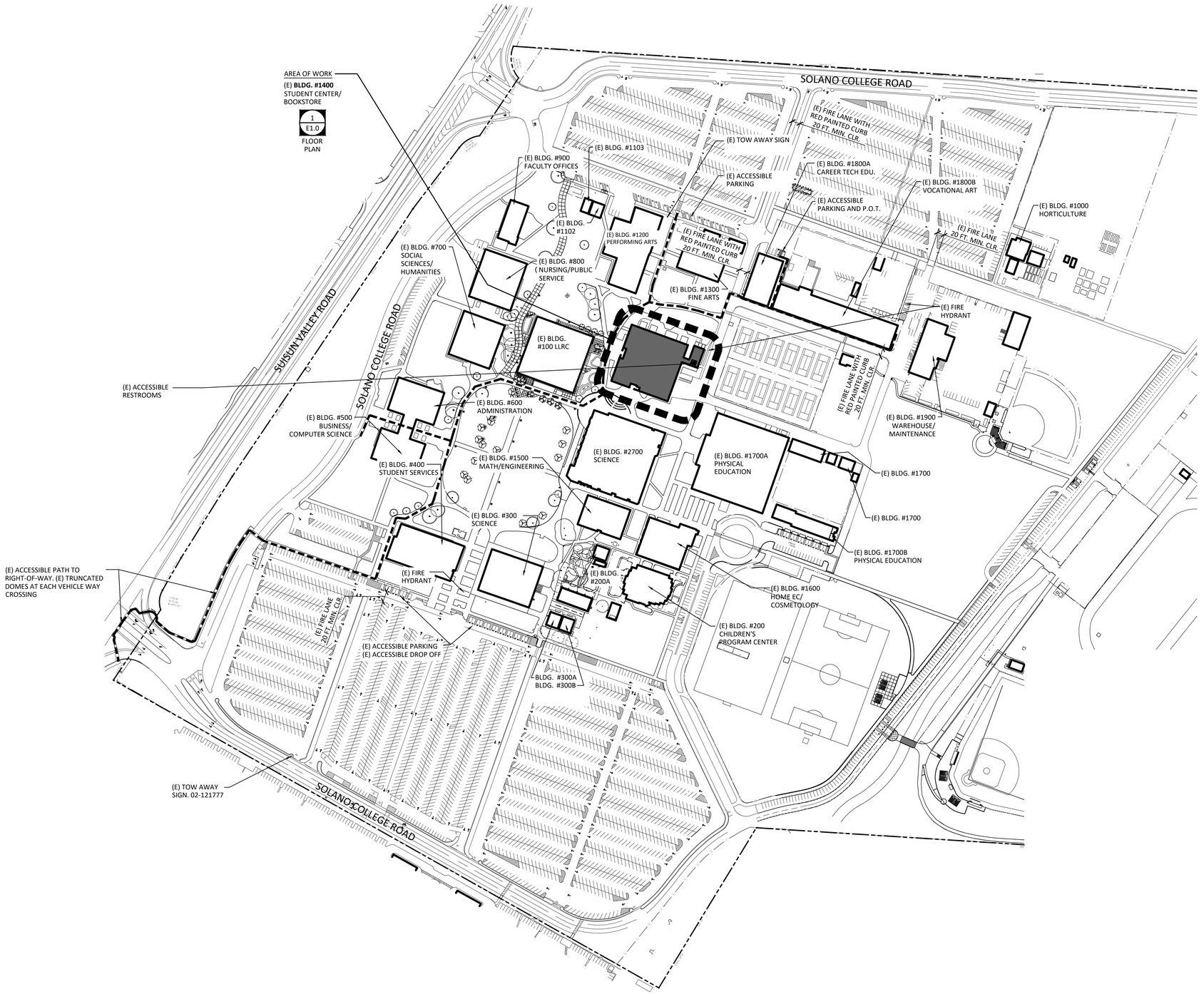

LEGEND

- PROPERTY LINE
- (E) ACCESSIBLE PATH OF TRAVEL

1D
AS1 OVERALL SITE PLAN

NORTH

SCALE: 1"=150'

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REVISIONS

NO.	DESCRIPTION	DATE

OVERALL SITE PLAN

FEBRUARY 20, 2026

DRAWN BY: GW	AS1
CHECKED BY: KD	
JOB NO. 25072	

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED LUMINAIRE.
	SUSPENDED LUMINAIRE.
	RECESSED MOUNTED LUMINAIRE.
	RECESSED MOUNTED LUMINAIRE AT GYPSUM BOARD CEILING.
	WALL MOUNTED LUMINAIRE.
	SURFACE MOUNTED LUMINAIRE.
	RECESSED DOWNLIGHT LUMINAIRE.
	PENDANT MOUNTED LUMINAIRE.
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN W/ DIRECTIONAL ARROWS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S)
	LUMINAIRE SHADING INDICATES LUMINAIRE CONNECTED TO EMERGENCY OR BATTERY POWER SOURCE.
a	LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.

LIGHTING CONTROLS SYMBOLS

SYMBOL	DESCRIPTION
S	SINGLE POLE TOGGLE SWITCH.
	LINE VOLTAGE AUTOMATIC "ON/OFF" DUAL TECHNOLOGY OCCUPANCY SENSOR & SWITCH, WALL MOUNTED. MAESTRO #MS-A102-WH
	LINE VOLTAGE AUTOMATIC "ON/OFF" PIR OCCUPANCY SENSOR W/ 0-10V DIMMING CONTROL, WALL MOUNTED. MAESTRO #MS-Z101
	WIRELESS ON/OFF SWITCH BATTERY POWERED (CR2032), WALL MOUNTED. LUTRON PICO #PJ2-2B-GWH-LO1, PICO-WBX-ADAPT
	WIRELESS 2-BUTTON DIMMING CONTROL BATTERY POWERED (CR2032), WALL MOUNTED. LUTRON PICO #PJ2-2BRL-GWH-LO1, PICO-WBX-ADAPT
	WIRELESS 4-BUTTON DIMMING CONTROL CR2032 BATTERY POWERED, WALL MOUNTED. LUTRON PICO #PJ2-4BRL-GWH-L31, PICO-WBX-ADAPT
PS	CEILING MOUNTED WIRELESS PHOTOSENSOR FOR DAYLIGHT CONTROL, AUTOMATIC SWITCHING & DIMMING FOR ONE LIGHTING ZONE. BATTERY POWERED (CR123). LUTRON LRF2-DCRB-WH.
	AUTOMATIC ON/OFF CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR, WIRELESS BATTER POWERED (CR2450). LUTRON #LRF2-OCR2B-P-WH
RF	ATHENA WIRELESS NODE. LUTRON ATHENA #A-RF2
SUBSCRIPTS: a,b,c	LIGHTING CONTROLS SUBSCRIPTS DESIGNATE THE FOLLOWING: = LIGHTING/DEVICE CONTROL (LOWERCASE SUBSCRIPTS)

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
XX	NUMBERED NOTE.
	ENLARGED PLAN OR DETAIL CALL-OUT.
T	TRANSFORMER.
T	AUTOMATIC TRANSFER SWITCH.
	CIRCUIT BREAKER.

RACEWAY SYMBOLS

SYMBOL	DESCRIPTION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.
	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
	STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.

POWER DISTRIBUTION SYMBOLS

SYMBOL	DESCRIPTION
	(E) BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
	(E) BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED.

SHEET INDEX

ABBREVIATIONS

1PH, 3PH	1 PHASE, 3 PHASE
1P, 2P, 3P	1 POLE, 2 POLE, 3 POLE
3W, 4W	3 WIRE, 4 WIRE
(D)	DEMO, DEMOLISH
(E)	EXISTING
(ER)	EXISTING RELOCATED
(N)	NEW
(R)	RELOCATE
	-A-
A, AMPS	AMPERES
AC	ALTERNATING CURRENT
AF	FRAME RATING IN AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ATS	AUTO TRANSFER SWITCH
AT	TRIP RATING IN AMPERES
AWG	AMERICAN WIRE GAUGE
	-B-
BTR	BUILDING TELECOM ROOM
	-C-
C	CONDUIT
CB,C/B	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE
CT	CURRENT TRANSFORMER
CU	COPPER
	-D-
DC	DIRECT CURRENT
	-E-
EA	EACH
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
	-F-
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAPS	FIRE ALARM POWER SUPPLY
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
	-G-
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
	-H-
HOA	HAND-OFF-AUTO
HP	HORSE POWER
	-I-
IACP	INTRUSION ALARM CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FACILITY/FRAME
	-J-
J-BOX	JUNCTION BOX
	-K-
KVA	ONE THOUSAND VOLT-AMPS
KW	ONE THOUSAND WATTS
	-L-
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
	-M-
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FACILITY/FRAME
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MT	EMPTY CONDUIT W/ PULL-LINE
	-N-
NC	NORMALLY CLOSED
NCTC	NURSE CALL TERMINAL CABINET
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
	-O-
O.C./OC	ON CENTER
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
	-P-
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
	-R-
RLA	RUNNING LOAD AMP
RSC	RIGID STEEL CONDUIT
	-S-
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SST	SOLID STATE TRIP
STB	SIGNAL TERMINAL BACKBOARD
STC	SIGNAL TERMINAL CABINET
	-T-
TER	TELECOM EQUIPMENT ROOM
TR	TELECOM ROOM
TM	THERMAL MAGNETIC
TTB	TERMINAL BACKBOARD
	-U-
UG	UNDERGROUND
UL	UNDERWRITERS LAB.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
	-V-
V	VOLTS
VA	VOLT-AMPS
VAB	VOICE AUDIO BOOSTER
VAC	VOLTS ALTERNATE CURRENT
	-W-
W	WATTS
WCR	WITHSTAND & CLOSING RATING
WP	WEATHERPROOF
	-X-
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL WORK AND MATERIAL SHOWN ON PLANS ARE NEW. EXISTING DEVICES AND EQUIPMENT ARE IDENTIFIED ON THE PLANS.
2. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER CEC 110.2.
3. ALL EQUIPMENT SHALL BE USED IN ACCORDANCE WITH LISTING PER CEC 110.3B.

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03/11/2026

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BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

ABBREVIATIONS, SYMBOLS, NOTES, AND SHEET INDEX

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

E0.1

3/11/2026 8:45 AM JASON.YIP
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PROPOSED SEQUENCE OF OPERATIONS

BUILDING / SPACE TYPE	CONTROL: MANUAL CONTROL	CONTROL: TIME CLOCK	CONTROL: OCCUPANCY SENSOR	CONTROL: DAYLIGHT HARVESTING		
OFFICES, STUDY ROOMS, & SERVING AREA	X		X		ON:	The lights will automatically turn on to 100% when the space becomes occupied.
					ADJUST:	The lights are adjusted between preset and raise/lower buttons.
					OFF:	After the spaces has been vacant for 10 minutes. The lights will automatic off.
DINING, LOBBY, & BOOKSTORE	X	X		X	ON:	The lights will automatically turn on to 100% when the space becomes occupied.
					ADJUST:	The lights are adjusted between preset and raise/lower buttons. The lights will continuously adjust to maintain xx foot-candle based on the available daylight within the space.
					OFF:	Time Clock after hours.
KITCHEN	X	X			ON:	The lights will automatically turn on to 100% when the space becomes occupied.
					ADJUST:	The lights are adjusted between preset and raise/lower buttons.
					OFF:	Time Clock after hours.
ELECTRICAL & MECHANICAL ROOM	X				ON:	Manual.
					OFF:	Manual.
STORAGE ROOM	X		X		ON:	The lights will automatically turn on to 100% when the space becomes occupied.
					ADJUST:	The lights are adjusted between preset and raise/lower buttons.
					OFF:	After the spaces has been vacant for 5 minutes. The lights will automatic off.
RESTROOMS			X		ON:	The lights will automatically turn on to 100% when the space becomes occupied.
					ADJUST:	
					OFF:	After the spaces has been vacant for 5 minutes. The lights will automatic off.

LIGHTING CONTROL NOTES:

1. THE LIGHTS SHALL AUTOMATICALLY TURN ON TO 100% INTENSITY USING A 3 SECOND FADE RATE WHEN OCCUPANCY IS DETECTED. THE OCCUPANT MAY MANUALLY INCREASE OR DECREASE THE LIGHTING INTENSITY AS DESIRED. THE LIGHTS MAY BE MANUALLY TURNED OFF.
2. THE PRIMARY DAYLIT ZONE AS SHOWN IS ONE WINDOW HEAD HEIGHT DEEP BY HALF WINDOW HEAD HEIGHT WIDE ON EACH SIDE. THE SECONDARY DAYLIT ZONE SHALL EXTEND FROM THE PRIMARY DAYLIT ZONE BY ONE WINDOW HEAD HEIGHT.
3. PER EXCEPTION 1 TO SEC 130.1(d), AUTOMATIC DAYLIT CONTROLS ARE NOT REQUIRED FOR LUMINAIRES TOTALING LESS THAN 120 WATTS IN A DAYLIT ZONE.
4. FOR LIGHTING VIA TIMECLOCK, PROVIDE CONTROLLED PROGRAMMING TO TURN ON WEEKDAYS AT 6:00AM, OFF AT 7:00PM, OFF ON WEEKENDS, AND OFF ON HOLIDAYS IN ACCORDANCE WITH TITLE 24 SEC. 130.5(d).
5. AFTERHOURS MODE WILL BE ENABLED FROM 7:00PM UNTIL 6:00 AM. WHEN AFTER HOUR MODE BEGINS, THE LIGHTS WILL FLASH 3 TIMES BEFORE THE 10 MINUTE DELAY PERIOD BEGINS. IF NO OVERRIDE IS SELECTED WITHIN THE 10 MINUTE DELAY, THE LIGHTS WILL AUTOMATICALLY TURN OFF. IF AN OVERRIDE IS SELECTED, THE 90 MINUTE WARNING PERIOD WILL BEGIN. AT THE END OF THE 90 MINUTE WARNING PERIOD, THE LIGHT WILL FLASH 3 TIMES AND THE 10 MINUTE DELAY PERIOD WILL BEGIN AGAIN.

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER/CATALOG	DESCRIPTION	MOUNTING	TYPE	VOLTS	WATTS	REMARKS
A1	HE WILLIAMS AT1-24-L40/835-D-AWNS-DA-DIM-UNV	2X4 TROFFER	RECESSED	LED	UNV	34.2	ATHENA WIRELESS CONTROL
A1F	HE WILLIAMS AT1-24-L40/835-D-NEMA F-AWNS-DA-DIM-UNV	2X4 TROFFER	RECESSED	LED	UNV	34.2	ATHENA WIRELESS CONTROL. PROVIDED W/ FLANGE KIT.
A2	HE WILLIAMS AT1-24-L55/835-D-AWNS-DA-DIM-UNV	2X4 TROFFER	RECESSED	LED	UNV	48	ATHENA WIRELESS CONTROL
A2F	HE WILLIAMS AT1-24-L55/835-D-NEMA F-AWNS-DA-DIM-UNV	2X4 TROFFER	RECESSED	LED	UNV	48	ATHENA WIRELESS CONTROL. PROVIDED W/ FLANGE KIT.
B1	HE WILLIAMS AT1-22-L40/835-D-AWNS-DA-DIM-UNV	2X2 TROFFER	RECESSED	LED	UNV	37.2	ATHENA WIRELESS CONTROL
B2	HE WILLIAMS AT1-22-L50/835-D-AWNS-DA-DIM-UNV	2X2 TROFFER	RECESSED	LED	UNV	48.3	ATHENA WIRELESS CONTROL
C	HE WILLIAMS 11-4-L52/835-F AF12125-AWNR-DA-UNV	1X4 SURFACE	SURFACE	LED	UNV	42.3	ATHENA WIRELESS CONTROL
D1	HE WILLIAMS 8DR-L20/835-AWNR-DA-277-O-W-CS-MWT-R-F1	8" DOWNLIGHT	RECESSED	LED	UNV	24.3	ATHENA WIRELESS CONTROL
D2	GREENCREATIVE SPFTR9.5-LE25-90-35K-PSRUNV-WD-ADR9-CC/AWNR	9.5" DOWNLIGHT	RECESSED	LED	UNV	31.5	ATHENA WIRELESS CONTROL
F	FINELITE HP-4C-P-D-3'-V-835-F-96LG-277-SC-CUST-ARF-FA50-SW	3' PENDANT	PENDANT	LED	UNV	30.6	ATHENA WIRELESS CONTROL
G12	HE WILLIAMS AI3-P33-12-L16-835-AC/D24-AWNR-DA-DIM-UNV	12' INDIRECT LED	SUSPENDED	LED	UNV	157.8	ATHENA WIRELESS CONTROL
G16	HE WILLIAMS AI3-P33-16-L16-835-AC/D24-AWNR-DA-DIM-UNV	16' INDIRECT LED	SUSPENDED	LED	UNV	210.4	ATHENA WIRELESS CONTROL
G20	HE WILLIAMS AI3-P33-20-L16-835-AC/D24-AWNR-DA-DIM-UNV	20' INDIRECT LED	SUSPENDED	LED	UNV	263	ATHENA WIRELESS CONTROL
G32	HE WILLIAMS AI3-P33-32-L16-835-AC/D24-AWNR-DA-DIM-UNV	32' INDIRECT LED	SUSPENDED	LED	UNV	420.8	ATHENA WIRELESS CONTROL
G48	HE WILLIAMS AI3-P33-48-L16-835-AC/D24-AWNR-DA-DIM-UNV	48' INDIRECT LED	SUSPENDED	LED	UNV	631.2	ATHENA WIRELESS CONTROL
H	DAY BRITE 1FPZ30L835-4FT-DS-UNV-DIM-AWNRF/FMA14-FP	1X4 KITCHEN LED	RECESSED	LED	UNV	25	ATHENA WIRELESS CONTROL
I	HE WILLIAMS MX2WUD-4'-L4/835U/L8/835D-F-F-AWNR-DA-DIM-UNV	4' UP/DOWN LED	WALL	LED	UNV	10.1	ATHENA WIRELESS CONTROL
J	HE WILLIAMS 96-4-L40/835-HIAFR-DIM-UNV	4' LINEAR	SURFACE	LED	UNV	30	WIRED 0-10V CONTROL
K	HE WILLIAMS 96-2-L40/835-HIAFR-DIM-UNV	2' LINEAR	SURFACE	LED	UNV	31	WIRED 0-10V CONTROL

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03/11/2026

BUILDING 1400 LIGHTING UPGRADES

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REVISIONS

NO.	DESCRIPTION	DATE

LUMINAIRE SCHEDULE & DETAILS

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

E0.2

SECTION 26 00 00 - ELECTRICAL WORK

PART 1 GENERAL

1.01 CONDITIONS:

A. The Requirements of General Conditions and Special Conditions apply to Work of this Section as if fully repeated herein.

1.02 WORK INCLUDED:

A. Provide a complete working installation of all electrical as shown of drawings or as specified.

B. Provide all labor, materials, tools, and equipment necessary for the complete in-place installation of all electrical and low voltage items complete as shown on drawings and as specified.

C. Provide submittals and shop drawings.

D. Complete lighting as indicated to include switching and controls as indicated.

E. Provide emergency lighting throughout.

F. Include sealing and fireproofing of conduits, cable trays, cables etc.

G. Electrical components are identified as follows:

1. Label for identification of light switches, and control device stations.
2. Wire marker for each conductor at panel boards' gutters, pull boxes, outlet and junction boxes, and each load connection.
3. Permanent ink felt tip marker on cover indicating panel and circuit for junction boxes located above suspended ceilings and below ceilings in non-public areas.

1.03 CODES AND STANDARDS

A. Work and materials shall be in full accordance with California Occupational Safety Health Act (CAL-OSHA), California Electrical Code (CEC), State Fire Marshal, Title 8, Safety Orders of Division of Industrial Safety (ESO), the National Fire Protection Association, California Building Code (CBC); California Code of Regulations - Title 24 and other applicable laws or regulations. Nothing in the Drawings or Specifications shall be construed to permit work not conforming to these codes.

B. When Contract Documents differ from governing codes, furnish, and install larger size or higher standards called for without extra charge.

1.04 QUALITY ASSURANCE:

A. Requirements of Regulatory Agencies:

1. Nothing in the Contract Documents shall be construed to permit Work not conforming to applicable codes, laws, ordinances, rules, or regulations.
2. All materials and equipment shall be installed in accordance with manufacturer's recommendations and in accordance with the National Electrical Contractors Association (NECA) Standard of Installation.
3. Equipment to be installed or permanently connected (hardwired) shall be listed, labeled, or certified by a Nationally Recognized Testing Laboratory (NRTL).

1.05 PERMITS, FEES, AND INSPECTIONS

A. Contractor shall obtain all permits and arrange for Owner to pay required fees to any governmental agency or utility company having jurisdiction over the work of this Section. Inspections required by any local ordinances or utility companies during construction shall be arranged by the Contractor.

B. All work and materials covered by these specifications and accompanying drawings shall always be subject to inspection by the Architect or his representative. Any material not in accordance with the plans and specifications, or not installed in a neat and workmanlike manner, shall, upon order from the Architect, be removed from the premises or corrective action taken within three (3) days; and if material in question has been installed, the entire expense for removing and reinstalling shall be borne by the Contractor.

C. On completion of the work, satisfactory evidence shall be furnished to the Architect to show that all work has been installed in accordance with the Codes.

D. The Contractor shall cooperate with the Architect and shall provide assistance at all times for the inspection of the electrical work performed under this contract. Contractor shall remove covers, operate machinery, or perform any reasonable work which, in the opinion of the Engineer, will be necessary to determine the quality and adequacy of the work.

1.06 SPECIFICATIONS AND CONTRACT DRAWINGS

A. Accuracy of data given herein and on the drawings is as exact as could be secured, but their extreme accuracy is not guaranteed. The drawings and specifications are for the assistance and guidance of the Contractor and exact locations, distances, levels, etc., will be governed by the construction and the Contractor shall accept same with this understanding.

B. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial and not exact) but shall be followed as closely as possible. Architectural, structural, mechanical, and other drawings shall be examined noting all conditions that may affect this work. Where connections to equipment provided by other divisions are shown on electrical drawings, refer to drawings of respective division for exact locations and electrical requirements of equipment.

C. Report conflicting conditions to the Architect for adjustment before proceeding with work. Should Contractor proceed with work without reporting conflict(s), he does so on his own responsibility, and shall alter work if directed by the Architect, at his own expense.

D. Right is reserved to make minor changes in locations of equipment and wiring systems shown, providing change is ordered before conduit runs and/or work directly connected to same Is Installed and no extra materials are required.

E. Drawings and specifications may be superseded by later detail specification and detail drawings prepared by the Architect, and the Contractor shall conform to them and to such reasonable changes in the contract drawings as may be called for by these revised drawings without extra cost to the Owner.

F. Contractor may request additional detail(s), and such shall be conformed to, without additional cost. Contractor may offer alternate detail(s), but such detail(s) shall be approved by Architect and authority having jurisdiction

1.07 SUBMITTALS:

A. Submission Requirements

1. Contractor is responsible for the scheduling of submittals to avoid detrimental impact to the construction schedule and to support the timely sequence of the Work. Allow a minimum of 15-working days for submittal review by the Engineer. Complex submittals or submittals which are not provided as complete packages may take longer than 15-working days for review. Contractor should allow time for potential rejection and re-submittal of submittals which are being offered as substitution to the specified products.
2. Contractor shall review submittals for completeness, coordination and conflicts between subcontractors and other work in the Contract Documents. Submittals made by Contractor which are not thoroughly reviewed by the Contractor will be returned. Submittals which vary significantly from the Contract Documents and are not so identified prior to submission, will be returned to the Contractor without review.
3. Make submissions within following number of days from issuance of Notice to Proceed or Start Letter
   a. Items needed in initial stages of Work or requiring long lead-time for ordering: 15 calendar days.
   b. All other items: 21 calendar days.
4. Before submitting a shop drawing or any related material, Contractor shall: review each such submission for conformance with the means, methods, techniques, sequences, and operations of construction, and safety precautions and programs incidental thereto, all of which are the sole responsibility of the Contractor; approve each such submission before submitting it; and stamp each such submission before submitting it. Engineer shall assume that no shop drawing or related submittal comprises a variation unless the Contractor advises the Engineer otherwise via a written instrument which is acknowledged by the Engineer in writing.
5. Engineer will check submittals for conformance with design concepts of project. Approval covers only such conformance. Effort will be made by Engineer to discover any errors, but responsibility for accuracy and correctness of all submittals shall be with the Contractor.
6. Approval of submittals will be on a general basis only and shall not relieve the Contractor from their responsibility for proper fitting and construction of the Work, nor from furnishing materials and labor required by the Contract which may not be indicated on the submittals when approved.
7. No portion of the work requiring submittals shall be commenced until the submittal for that portion of the work has been approved by Engineer. All such portions of work shall be in accordance with the approved submittal. Any work performed without approved submittals will be done so at the Contractor's own risk. Work found not to be in compliance with the approved submittals shall be removed and corrected at the Contractor's own expense.
8. Number of Copies Required - Contractor shall submit following number of copies:
   a. Shop Drawings: 1-electronic copy in PDF format.
   b. Product Data/Material Lists: 1-electronic copy in PDF format.
   c. Samples: As specifically indicated in pertinent specification section.
   d. Substitution Request: 1-copy in PDF format
9. Submittals shall include (where applicable):
   a. Date and revision dates.
   b. Project title and number.
   c. The names of Architect, Engineer, Contractor, Subcontractor and supplier or manufacturer.
   d. Identification of product or material.
   e. Relation to adjacent structure or material.
   f. Field dimensions clearly identified as such.
   g. Specification section number.
   h. A blank space for Engineer's stamp.
   i. Contractor's stamp on each, initialed or signed, certifying that submittal was reviewed, field measurements have been verified and submittal is in compliance with the applicable specification section and the overall Contract Documents.
10. Incomplete, inaccurate, or non-complying submittals requiring revisions, re-submittal, and additional review time, shall not be considered as a basis for Contract time extension.
11. Two reviews will be made for each submittal. Additional reviews will be charged to the Contractor. A rejection of a submittal or review of a partially presented submittal constitutes one submittal review. Incomplete submittals, such as product data submitted without required shop drawings, will be returned without review.

B. Required Submittals

1. Various specification sections may state additional information to be submitted.
2. Submittals are required for all materials even though the submitted material may be exactly as specified in the Project Manual.
3. Electrical Materials Submittal:
   a. Submit product data only for materials that are being substituted.
   b. Electrical materials include raceway, boxes, supports, finish material, etc.
4. Electrical Equipment Submittal:
   a. Submit product data for all equipment.
   b. Electrical equipment includes panelboards, switchboards, transformers, underground pull boxes, floor boxes, light fixtures, etc.
5. Low Voltage and Control Systems Submittals:
   a. Provide product data for each item in the system.
   b. Provide shop drawings for each system.
   c. Low voltage and control systems include lighting controls, sound communications, fire alarm, etc.

C. Product Data

1. Manufacturer's Standard Schematic Drawings:
   a. Modify drawings to delete information which is not applicable to the Project.
   b. Supplement standard information to provide additional information which is applicable to the Project.
2. Manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations, and other standard descriptive data.
   a. Clearly mark each copy to identify pertinent materials, products, or models. Mark out or remove all extraneous information.
   b. Show dimensions and clearances required.
   c. Show performance characteristics and capacities.
   d. Show wiring diagrams and controls.

D. Substitutions

1. Engineer's Approval Required:
   a. Contract is based on materials, equipment and methods described in Contract Documents. Substitutions will not be reviewed and approved prior to the award of the contract.
   b. Engineer will consider proposals during the submittal process for substitution of materials, equipment, and methods only when such proposals are accompanied by full and complete technical data and all other information required by Engineer to evaluate proposed substitution. Substitution shall be submitted with completed Substitution Request Form.
   c. Do not substitute materials, equipment, or methods unless such substitution has been specifically approved for this work by Engineer.
2. "Or Equal": Whenever, in Contract Documents, any material, process or specified patent or proprietary name and/or by name of manufacturer is indicated, such name shall be deemed to be used for purpose of facilitating description of material and/or process desired, and shall be deemed to be followed by the words "or equal", or "accepted equal", and Contractor may offer any material or process which shall be equal in every respect to that so indicated or specified; provided, however, that if material, process or article offered by Contractor is not, in opinion of Architect, equal in every respect to that specified, then Contractor must furnish material, process or article specified or one that in opinion of Engineer is equal thereof in every respect.
3. "No Substitutions": Items indicated as "No Substitutions" must be provided as specified and no alternates will be allowed. These items are required either due to District standards by the Board or to match materials recently installed by others.
4. Coordination: Approval of substitution shall not relieve Contractor from responsibility for compliance with all requirements of Drawings and Project Manual, and Contractor shall be responsible at his own expense for any changes in other parts of his own work or work of others which may be caused by approved substitution.

1.08 SYSTEM DESCRIPTION:

A. Raceway and boxes located as indicated on Drawings, and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.

B. Conductor sizes are based on copper unless indicated as aluminum or "AL".

C. When aluminum conductor is substituted for copper conductor, size to match circuit requirements, terminations, conductor ampacity and voltage drop. Contractor shall be responsible for verifying maximum number of aluminum conductors for substituted copper conductors in specified conduit.

D. All wiring shall be installed in raceway.

E. Underground More than 5 feet outside Foundation Wall: Provide thick wall nonmetallic conduit. Provide cast metal boxes or nonmetallic handhole.

F. Underground Within 5 feet from Foundation Wall: Provide thick wall nonmetallic conduit. Provide cast metal or nonmetallic boxes.

G. In Slab Above Grade: Not permitted.

H. Below Slab on Grade: Use thick wall nonmetallic conduit. Terminate with coated rigid steel elbows and short length of coated rigid steel conduit out of concrete.

I. Outdoor Locations, Above Grade: Provide galvanized rigid steel conduit. Provide cast metal outlet, pull, and junction boxes.

J. Wet and Damp Locations: galvanized rigid steel conduit. Provide cast metal outlet, junction, and pull boxes. Provide flush mounting outlet box in finished areas.

K. Concealed Dry Locations: Provide electrical metallic tubing. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes where shown on drawings. Provide J-hooks when shown on plans.

L. Exposed Interior Dry Locations: Use rigid steel conduit or intermediate metal conduit below eight feet or where subject to damage. Use rigid steel conduit, intermediate metal conduit, or electrical metallic tubing above eight feet or in electrical, mechanical or telecommunication rooms. Use sheet-metal or cast metal boxes. Use flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.

M. Product requirements: Provide products as follows:

1. Stranded conductor for feeders and branch circuits.
2. Stranded conductors for control circuits.
3. Conductor not smaller than 12 AWG for power and lighting circuits.
4. Conductor not smaller than 12 AWG for line voltage control circuits (120-volt).
5. Conductor not smaller than 16 AWG for control circuits.
6. Increase wire size in branch circuits to limit voltage drop to a maximum of 3 percent.
7. 10 AWG conductors for 20 ampere or larger as designated on plans for 120-volt branch circuit home runs longer than 75 feet.
8. 10 AWG conductors for 20 ampere or larger as designated on plans for 277-volt branch circuit home runs longer than 200 feet.

N. Conductor and Cable Applications:

1. Do not use conductors and cables for applications other than as permitted by NFPA 70 and product listing.
2. Provide single conductor building wire installed in suitable raceway unless otherwise indicated, permitted, or required.
3. Armored cable is not permitted.
4. Concealed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway.
5. Exposed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway.
6. Above Accessible Ceilings: Use only building wire, Type THHN/THWN-2 insulation, in raceway.

1.09 DEMOLITION:

A. Removal of existing electrical equipment, wiring, and conduit in areas to be remodeled; removal of designated construction; dismantling, cutting and alterations for completion of the Work.

1. Protect items to remain.
2. Relocate existing equipment to accommodate construction.
3. Conduct demolition to minimize interference with adjacent and occupied building areas.
4. Coordinate demolition work with Owner's representative and all other disciplines.
5. Coordinate and sequence demolition so as not to cause shutdown of operation of surrounding areas.
6. Shut-down Periods:
   a. Arrange timing of shut-down periods of in-service panels with Owner's representative. Do not shut down any utility without prior written approval and submitting a "Method of Procedure" for review
   b. Keep shut-down period to minimum or use intermittent period as directed by Owner's representative.
   c. Maintain life-safety systems in full operation in occupied facilities or provide notice minimum 72 hours in advance and fire watch.
7. Identify salvage items in cooperation with Owner.

1.10 DRAWINGS AND COORDINATION WITH OTHER WORK:

A. Drawings:

1. For purposes of clarity and legibility, Drawings are essentially diagrammatic to the extent that many offsets, bends, special fittings, and the exact locations of items are not shown, unless specifically dimensioned.
2. Exact routing of wiring and locations of outlets, panels, and other items, shall be governed by structural conditions, and materials and equipment already in place. Use data in the Contract Documents. In addition, the Architect reserves the right, at no increase in Contract Sum, to make any reasonable change in locations of exposed electrical items, to group them into orderly relationship and/or increase their utility. Verify the Architect's requirements in this regard prior to roughing-in.
3. Dimensions, locations of doors, partitions and similar physical features shall be taken from Architectural Drawings and verified at the site as part of the Work of this Division. Consult the Architectural Drawings for exact location of outlets to center with architectural features, panels, and similar items, at the approximate locations shown on the Electrical Drawings.
4. Drawings indicate, generally, routes of all branch circuits. All runs to panels are indicated as starting from nearest outlet, pointing to direction of panel. Continue all such circuits, conduits to panel as though routes were indicated in their entirety.

B. Coordination:

1. Work out all "tight" conditions involving Work of this Division and Work of other Divisions in advance of installation. Provide additional Work necessary to overcome "tight" conditions, at no increase in Contract Sum.
2. Differences of disputes concerning coordination, interference or extent of Work between Divisions shall be decided by Contractor. If the decision is consistent with Contract Document requirements, then it shall be final.
3. Coordinate electrical interface of mechanical equipment with Mechanical and Plumbing.
4. Provide templates, information, and instructions for Work of other Divisions to properly locate holes and openings to be cut or provided for Electrical Work.
5. Make every effort to keep existing electrical circuits, including telephone, public address, fire alarm, power, and other electrical services, in operation. Where power outages are unavoidable, schedule such outages with the Owner to occur at such times as to cause the least disruption of normal facility functions.

C. Equipment Rough-In:

1. Rough-in locations shown on Electrical Drawings for equipment furnished by the Owner and for equipment furnished under other Divisions are approximate only. Obtain exact rough-in locations from the following sources:
   a. From Shop Drawings for Contractor-furnished and installed equipment.
   b. From the Architect for Owner-furnished, Contractor-installed equipment.
   c. From the Architect for existing equipment where such equipment is relocated as part of the Work of this Contract.
2. Verify electrical characteristics of equipment before starting rough-in.
3. Unless otherwise shown or specified, equipment which requires electrical connection shall be installed as part of the Work of the Division in which specified. Internal components shall be wired to a single point with wiring in raceway direct connection (hardwired) to building electrical system or internal wiring and connections with cord and plug for receptacle connection to building wiring.
4. Unless otherwise shown or specified, provide direct raceway and conductor connections from building wiring system to equipment terminals for direct-connected equipment terminals for direct-connected equipment which is Contractor-furnished and Contractor-installed, Owner-furnished and Contractor-installed, and for existing equipment relocated by the Contractor.
5. Insert plug in receptacle for cord-connected equipment which is Contractor-furnished and Contractor-installed, Owner-furnished, and Contractor-installed and for existing equipment relocated by the Contractor. Provide new cord and plug if required on Owner-furnished and Contractor-installed equipment.

1.11 WORKING SPACE

A. Adequate working space shall be provided around electrical equipment in strict compliance with the Codes. In general, provide 78" of headroom and 36" minimum clear workspace in front of switchboards, panelboards, transformers, disconnect switches and controls for 120/208-volts and 42" for 277/480-volts. Carefully coordinate locations and orientation of electrical equipment with other divisions to ensure that working space will be clear of piping, conduits, and equipment provided by others.

1.12 PROJECT RECORD DOCUMENTS:

A. At time of installation, installed locations of all underground work shall be recorded on prints by Contractor, and reviewed with Inspector. Record drawings are to be maintained and adjusted on a daily basis by the Contractor.

B. All information entered on drawings copy shall be neat, legible, and emphasized by drawing "clouds" around changed items. Changes shall be made in an accurate manner by a qualified draftsperson acceptable to Architect. Completed Record Drawings shall be signed by the Contractor.

C. Locate and dimension all major equipment and underground work, including stubs and pull boxes. Provide dimensions from curbs, foundations, or other permanent landmarks.

D. All symbols and designations used in preparing record drawings shall match those used in the Contract Drawings.

E. Record drawing shall be up-dated monthly.

F. Record drawing signoff:

1. At such time that the underground work has been completed, all the contractors and sub-contractors notes, sketch and miscellaneous drawings documenting installed locations not currently part of the ongoing record drawing set shall be transferred. These updates shall be reviewed for accuracy by the inspector of record and architect. Once all corrections have been completed the inspector shall sign and date the record set coversheet noting it as acceptance of the underground phase of record drawings.
2. At project completion, the record drawings shall be submitted by the contractor for project inspector and architect review and comment. These will be returned to the contractor for revisions. Once all corrections have been completed the inspector shall sign and date the record set coversheet noting it as acceptance of the completed record drawings. The original record drawings are to be resubmitted to the architect along with a scanned electronic file set in PDF format with file names matching the drawing titles.

1.13 SITE EXAMINATION AND CONDITIONS:

A. Examine site; verify dimensions and locations against drawings and become informed of all conditions under which work is to be done before submitting proposal. No allowance will be made for extra expenses because of omission on Contractor's part to include cost of work under prevailing conditions.

B. Information shown relative to services is based upon available records and data shall be regarded as approximate only. Minor deviations found necessary to conform with actual locations and conditions shall be made without extra cost.

C. Extreme care shall be exercised in excavating near existing utilities to avoid any damage thereto; contractor is responsible for any damage caused by such operations.

D. Where signal systems exist, and services of other firms are required, Contractor shall instruct those firms to investigate existing systems and determine labor and materials needed to add devices or modify systems.

E. Where new conduits are to be run underground at existing sites, contractor shall visit site prior to bidding and walk routes of new underground conduits, note areas of concrete and asphalt being crossed, and include in bid all costs for cutting and patching.

F. Where existing conduits are shown, their location is diagrammatic, and their exact location may not be known.

1.14 WORKMANSHIP

A. Good workmanship shall be evidenced in the installation of all electrical materials and equipment. Equipment shall be level, plumb and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanent. The recommendations of the National Electrical Contractors Association Standard of installation shall be followed except where otherwise specifically directed.

1.15 COOPERATION AND COORDINATION

A. Cooperate and coordinate with other crafts in putting the installation in place at a time when the space required by this installation is accessible. Work done without regard to other crafts shall be moved at the Contractor's expense.

1.16 CARE AND CLEANING

A. After all work has been accomplished such as sanding, painting, etc., lighting fixtures, panelboards, and switchboards shall be cleaned to remove all dust, dirt, grease, paint, or other marks. All electrical equipment shall be left in a clean condition inside and out, satisfactory to the Architect. Keep buildings and premises free from accumulated waste materials, rubbish, and debris resulting from work herein, and, upon completion of said work, remove tools, appliances, surplus materials, waste materials, rubbish, debris, and accessory items used in or resulting from said work and legally dispose of off the site.

B. All broken, damaged, or otherwise defective parts shall be repaired or replaced without additional cost to Owner. Work shall be left in a condition satisfactory to Engineer. At completion, carefully clean and adjust all equipment, fixtures and trim installed as part of this work. Systems and equipment shall be left in a satisfactory operating condition.

C. All surplus materials and debris resulting from this work shall be cleaned out and removed from site; this includes surplus excavated material.

1.17 PROTECTION

A. The Contractor shall protect from damage during construction the work and materials of other trades as well as the electrical work and material. Electrical equipment stored and installed on the job site shall be protected from dust, water, or any other damage.

1.18 GUARANTEE:

A. Standard Guarantee: Provide individual as well as overall guarantees for all work executed under this Contract or any extra work to be absolutely free of all defects of workmanship and materials for a period of two years from the date of filing of notice of completion and acceptance by Owner. Repair and make good all such defects and repair any damage to other work caused thereby which may occur during same period at no cost to the owner.

B. Indicate on Guarantee Form specific provisions required by individual specification sections. List all special requirements, extended periods, bonding, etc.

C. Additional Guarantees: Provide additional guarantees (in excess of year(s) required by Standard Guarantee) where specifically required by pertinent Specification Sections.

D. Binder: Provide a binder with all guarantees placed in the order in which they occur in the project manual. Include an Index of Guarantees listing each specification section, specific items covered and length of guarantee for each item.

1.19 OPERATING TEST

A. After the installation is complete, and at such time as the Engineer and other authorities having jurisdiction may request, the Contractor shall conduct an operating test for approval.

PART 2 PRODUCTS

2.01 DESIGN REQUIREMENTS:

3/11/2026 8:45 AM JASON.YIP
D:\2025\M232\DRAWINGS\E0.0.DWG

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

REGISTERED PROFESSIONAL ENGINEER — No. E 18416 — ELECTRICAL — STATE OF CALIFORNIA
03/11/2026

LICENSED ARCHITECT — No. 24706 — REN. 12/31/25 — STATE OF CALIFORNIA

EDGE ELECTRICAL ENGINEERING
Project Number M232
Contact LAI
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine | Hawaii

BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL SPECIFICATIONS

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

E0.3

A. Minimum Raceway Size:
   1. 0.75 inch unless otherwise specified.
   2. 1 inch for homeruns unless otherwise specified.

2.02 BUILDING WIRE:
A. Product Description: Single conductor insulated wire.
B. Conductor: Copper Stranded.
C. Insulation Voltage Rating: 600 volts.
D. Insulation Temperature Rating: 90 degrees C.
E. Copper Building Wire in Conduit: Type THHN/THWN-2.

2.03 WIRING CONNECTORS:
A. Description: Wiring connectors appropriate for the application, suitable for use with the conductors to be connected, and listed as complying with UL 486A-486B or UL 486C as applicable.
B. Connectors for Grounding and Bonding.
C. Wiring Connectors for Splices and Taps:
   1. Copper Conductors Size 8 AWG and Smaller: Use twist-on insulated spring connectors.
D. Wiring Connectors for Terminations:
   1. Provide terminal lugs for connecting conductors to equipment furnished with terminations designed for terminal lugs.
   2. Provide compression adapters for connecting conductors to equipment furnished with mechanical lugs when only compression connectors are specified.
   3. Where over-sized conductors are larger than the equipment terminations can accommodate, provide connectors suitable for reducing to appropriate size, but not less than required for the rating of the overcurrent protective device.
   4. Conductors Size 10 AWG and Smaller: Use crimped terminals for connections to terminal screws.
E. Do not use insulation-piercing or insulation-displacement connectors designed for use with conductors without stripping insulation.
F. Do not use push-in wire connectors as a substitute for twist-on insulated spring connectors.
G. Twist-on Insulated Spring Connectors: Rated 600-volt, 221 degrees F for standard applications and 302 degrees F for high temperature applications; pre-filled with sealant and listed as complying with UL 486D for damp and wet locations.
H. Mechanical Connectors: Provide bolted type.
I. Compression Connectors: Provide circumferential type or hex type crimp configuration.
J. Crimped Terminals: Nylon-insulated, with insulation grip and terminal configuration suitable for connection to be made.

2.04 FLEXIBLE METAL CONDUIT:
A. Product Description: Interlocked steel construction.
B. Fittings: NEMA FB 1.

2.05 ELECTRICAL METALLIC TUBING:
A. Product Description: ANSI C80.3; galvanized tubing.
B. Fittings and Conduit Bodies: NEMA FB 1; steel couplings and connectors. Box connectors shall have with insulated throat. Set screw type couplings.

2.06 OUTLET BOXES:
A. Sheet Metal Outlet Boxes: NEMA OS 1, galvanized steel.
   1. Luminaire and Equipment Supporting Boxes: Rated for weight of equipment supported; furnish 0.50-inch male fixture studs where required.
   2. Boxes for shall be 1.5-inch deep by 4-inch square minimum.

2.07 BOX EXTENSIONS
A. At rooms being remodeled and where existing walls are to receive new finish material, replace existing plaster rings with new rings.
B. Provide extension rings as required so that boxes are flushed with finished wall or ceiling.

2.08 WALL SWITCHES AND PLATES:
A. Product Description: NEMA WD 1, Heavy-Duty, AC only general-use snap switch.
B. Body and Handle: White plastic with toggle handle.
C. Ratings:
   1. Voltage: 120-277 volts, AC.
   2. Current: 20 amperes.
D. Wall Plates shall be White plastic or Stainless Steel.

2.09 INTERIOR LUMINAIRES:
A. Product Description: Complete interior luminaire assemblies, with features, options, and accessories as scheduled.

2.10 FLASH PROTECTION:
A. Electrical equipment including switchboards, panelboards, disconnect switches, etc. which are likely to require examination, adjustment or servicing while energized shall be field marked to warn of potential electric arch flash hazards per CEC Article 110.16. Marking shall be a pre-printed label which references NFPA 70E.

2.11 NAMEPLATES:
A. Product Description: Laminated three-layer plastic with engraved letters on contrasting background color.
B. Letter Size:
   1. 0.125-inch high letters for identifying individual equipment and loads.
   2. 0.50-inch high letters for identifying grouped equipment and loads.
C. Minimum nameplate thickness: 0.125-inch.

2.12 LABELS:
A. Labels: Thermal transfer laminated adhesive tape with 0.125-inch black letters on clear tape cartridge.

PART 3 EXECUTION

3.01 GENERAL:
A. Manufacturer's Directions: Follow manufacturer's directions where manufacturers of articles used furnish directions covering points not specified or shown.
B. All Work shall be done in orderly, workmanlike manner and present neat appearing installation when completed.
C. Provide metal backing plates, anchor plates, and similar items that are required for anchorage for the Work of this Section; securely weld or bolt to metal framing. Wood blocking or backing will not be permitted in combination with metal framing.
D. Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage shall conform to the requirements of California Building Code. No allowance will be made for negligence to foresee means of placing, installing, or supporting equipment in position.
E. Electrical products shall be anchored and fastened to building elements and finishes as follows:
   1. Concrete Structural Elements: Provide expansion anchors and powder actuated anchors.
   2. Steel Structural Elements: Provide beam clamps and spring steel clips.
   3. Concrete Surfaces: Provide expansion anchors.
   4. Solid Masonry Walls: Provide expansion anchors.
   5. Sheet Metal: Provide sheet metal screws.
   6. Wood Elements: Provide wood screws.
F. All wiring shall be installed in conduit, unless specifically shown otherwise on plans.

3.02 DRAWINGS AND COORDINATION:
A. Examine Drawings and Site; be familiar with types of construction where electrical installation is involved.
   1. Work shall be neatly installed in a workmanlike manner in accordance with NECA Standard of Installation. Work shall be coordinated with other trades to avoid conflicts. Clarifications will be made by Engineer and minor adjustments shall be made without additional cost to Owner.
B. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial) but shall be followed as closely as possible. Drawings and Specifications are for assistance and guidance, and exact locations, distances, levels, etc., will be governed by Site.

3.03 EQUIPMENT INSTALLATION:
A. Provide metal backing plates, anchor plates, and similar items that are required for anchorage for the Work of this Section; securely weld or bolt to metal framing. Wood blocking or backing will not be permitted in combination with metal framing.
B. Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage shall conform to the requirements of California Building Code. No allowance will be made for negligence to foresee means of placing, installing, or supporting equipment in position.

3.04 PROTECTION:
A. In performance of work, protect work from damage. Protect electrical equipment, stored, and installed, from dust, water, or other damage.

3.05 INSTALLATION OF BRANCH CIRCUITS:
A. Single pole circuit breakers serving a multi-wire branch circuit shall be provided with an identified handle tie.
B. Dedicated branch circuits shall have dedicated neutrals.
C. Accomplish grounding of electrical system by using insulated grounding conductor installed with feeders and branch circuit conductors in conduits. Install from grounding bus of serving panel to ground bus of served panel, grounding screw of receptacles, lighting fixture housing, light switch outlet boxes or metal enclosures of service equipment. Ground conduits by means of grounding bushings on terminations at panelboards with installed number 12 AWG copper conductor to grounding bus.

3.06 INSTALLATION - RECEPTACLES AND SWITCHES:
A. Install devices plumb and level.
B. Install switches with OFF position down.
C. Install wall dimmers to achieve full rating specified and indicated after derating for ganging as instructed by manufacturer.
D. Do not share neutral conductor on load side of dimmers.
E. Connect wiring device grounding terminal to outlet box with bonding jumper and branch circuit equipment grounding conductor.
F. Install wall plates on flush mounted switches.
G. Identify light switch cover plate with panel and branch circuit number, (for example L2A-3), with thermal transfer laminated adhesive tape with 0.125-inch black letters on clear tape cartridge.
H. For stranded conductors, use crimp on fork terminals for device terminations. Do not place bare stranded conductors directly under device screws.
I. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.

3.08 DEMOLITION:
A. Demolition Drawings are based on casual field observation and/or existing record documents. Report discrepancies to Owner and Architect/Engineer before disturbing existing installation.
B. Remove, relocate, and extend existing installations as necessary, to accommodate new construction and to meet all requirements of these specifications. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.
C. Remove abandoned wiring to source of supply.
D. Remove exposed abandoned conduit and abandoned conduit above accessible ceiling finishes, unless noted otherwise on drawings. Cut conduit flush with walls and floors, and patch surfaces. If certain conduits and boxes are abandoned but not scheduled for removal, they shall be shown on the "As Built Drawings".
E. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit and wiring servicing them is abandoned and removed. Provide blank cover for abandoned outlets which are not removed.
F. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories.
G. Provide revised typed circuit directory in panelboards that have circuits removed.
H. Repair adjacent construction and finishes damaged during demolition and extension work.
I. Maintain access to existing electrical installations which remain active. Modify installation or provide access panel as appropriate.
J. Provide supplemental support for conduits that are routed through demolition area and are to remain. Supplemental support shall be added so that the conduit meets the support requirements.
K. Remove conduit, wire, boxes, and fastening devices to avoid any interference with new installation.
L. Remaining Circuits and Equipment: Reinstall existing electrical installations disturbed. Certain existing electrical installations may be located in walls, ceilings or floors that are to be removed and are essential for the operation of other remaining installations. Where this condition occurs provide a new extension of original circuits, raceways, equipment, and outlets to retain service continuity. Installations shall be concealed in finished areas.
M. Reconnect equipment being disturbed by renovation work and required for continue service to panel as indicated on drawings or to nearest available panel.
N. Disconnect or shut off service to areas where electrical work is to be removed. Remove electrical fixtures, equipment, and related switches, outlets, conduit and wiring which are not part of final project.
O. Install temporary wiring and connections to maintain existing systems in service during construction.
P. Remove exposed abandoned grounding and bonding components, fasteners and supports, and electrical identification components, including abandoned components above accessible ceiling finishes. Cut embedded support elements flush with walls and floors.
Q. Clean and repair existing equipment to remain and/or to be reinstalled.
R. Protect and retain power to existing active equipment remaining.
S. Cap abandoned empty conduit at both ends.

3.09 INSTALLATION - CONDUCTORS:
A. Route wire to meet Project conditions.
B. Neatly train and lace wiring inside boxes, equipment, and panelboards.
C. Identify and color code wire under wire color section. Identify each conductor with its circuit number or other designation indicated.
D. Special Techniques--Building Wire in Raceway:
   1. Pull conductors into raceway at same time.
E. Special Techniques - Wiring Connections:
   1. Clean conductor surfaces before installing lugs and connectors.
   2. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise.
   3. Tape uninsulated conductors and connectors with electrical tape to 150 percent of insulation rating of conductor.
   4. Install solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller.
   5. Install insulated spring wire connectors with plastic caps for copper conductor splices and taps, 10 AWG and smaller.
F. For stranded conductors, use crimp on fork terminals for device terminations. Do not place bare stranded conductors directly under device screws
G. Install terminal lugs on ends of 600-volt wires unless lugs are furnished on connected device, such as circuit breakers.
H. Size lugs in accordance with manufacturer's recommendations terminating wire sizes.
I. For terminal lugs fastened together such as on motors, transformers, and other apparatus, or when space between studs is small enough that lugs can turn and touch each other, insulate for dielectric strength of 2-1/2 times normal potential of circuit.

3.10 WIRE COLOR:
A. General:
   1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following:
      a. Black, red, and blue for circuits at 120/208 volts single or three phase.
      b. Orange, brown, and yellow for circuits at 277/480 volts single or three phase.
B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number.
C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded.
D. Feeder Circuit Conductors: Uniquely color code each phase.
E. Ground Conductors:
   1. For 6 AWG and smaller: Green.

3.11 INSTALLATION - RACEWAY:
A. Raceway routing is shown in approximate locations unless dimensioned. Route to complete wiring system.
B. Do not install PVC conduit above ground.
C. Conduits installed on top of roof or covered walk structure (on top or below) shall be rigid steel or IMC.
D. All Conduits Shall Be Rigid Steel or IMC, except EMT may be used at the following locations:
   1. In dry locations in furred spaces.
   2. In partitions other than concrete or solid masonry.
E. Unless otherwise specified, all raceway shall be installed concealed. Raceway may be run exposed on unfinished walls, in attic spaces, in electrical rooms and when routed to surface panels, cabinets or gutters.
F. Arrange raceway supports to prevent misalignment during wiring installation.
G. Support raceway using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers.
H. Group related raceway; support using conduit rack. Construct rack using steel channel; provide space on each for 25 percent additional raceways.
I. Do not support raceway with wire or perforated pipe straps. Remove wire used for temporary supports
J. Do not attach raceway to ceiling support wires or other piping systems.
K. Construct wireway supports from steel channel.
L. Route raceway installed above accessible ceilings parallel and perpendicular to walls.
M. Maintain clearance between raceway and piping for maintenance purposes.
N. Maintain 12-inch clearance between raceway and surfaces with temperatures exceeding 104 degrees F.
O. Cut conduit square using saw or pipe cutter; de-burr cut ends.
P. Bring conduit to shoulder of fittings; fasten securely.
Q. Install no more than equivalent of three 90-degree bends between boxes. Install conduit bodies to make sharp changes in direction, as around beams. Install factory elbows for bends in metal conduit larger than 2-inch size.
R. Avoid moisture traps; install junction box with drain fitting at low points in conduit system.
S. Install suitable pull string or cord in each empty raceway except sleeves and nipples.
T. Install suitable caps to protect installed conduit against entrance of dirt and moisture.
U. Close ends and unused openings in wireway.
V. Flexible conduit used from junction boxes to luminaires and electrical devices shall be no more than 6-feet in length.
   1. Flexible conduit size shall be no smaller than 0.5-inch.
   2. Conductor size and type shall be the same as the branch circuit.
   3. Quantity of conductors installed shall be as shown per plans.
   4. Should unforeseen conditions come up where the junction box shown on plans that has two or more flexible connections from box to devices and creates an excess length of 6-feet, contractor shall install an additional junction box closer to device(s) that require flexible connection.

3.12 INSTALLATION - BOXES:
A. Contractor shall refer to Drawings, specifications, and submittals covering work of the other trades to coordinate outlet location. In the event of conflict between planned locations of outlet and other equipment or furnishing, Contractor shall not proceed until direction has been given by Architect.
B. Unless otherwise specified or shown on Drawings, boxes shall be flush mounted with front edge of box or ring flush with wall or ceiling finish. Use steel plaster ring of appropriate depth in plastered or gypsum board applications. Contractor shall review architectural drawings and note wall and ceiling construction and finishes for each wall.
C. Boxes shall not be installed back_to_back in walls. To prevent sound transfer, switches, etc. shown on opposing sides of the same wall shall be installed in separate stud spaces, except that outlets installed at different elevations may occupy the same stud space when box separation exceeds 18". Where these requirements cannot be met, Contractor shall provide insulation material between boxes.
D. Orient boxes to accommodate wiring devices.
E. Install wall mounted boxes at elevations to accommodate mounting heights as indicated on Drawings.
F. Adjust box location up to 10 feet prior to rough-in to accommodate intended purpose.
G. Orient boxes to accommodate wiring devices.
H. Install pull boxes and junction boxes above accessible ceilings and in unfinished areas only.
I. In Accessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.
J. Do not install flush mounting box back-to-back in walls; install with minimum 6 inches separation. Install with minimum 24 inches separation in acoustic rated walls.
K. Secure flush mounting box to interior wall and partition studs. Accurately position to allow for surface finish thickness.
L. Install stamped steel bridges to fasten flush mounting outlet box between studs.
M. Install flush mounting box without damaging wall insulation or reducing its effectiveness.
N. Install adjustable steel channel fasteners for hung ceiling outlet box.
O. Do not fasten boxes to ceiling support wires or other piping systems.
P. Support boxes independently of conduit.
Q. Install gang box where more than one device is mounted together. Do not use sectional box.
R. Install gang box with plaster ring for single device outlets.
S. Junction box identification: All junction boxes located above suspended ceilings and below ceilings in non-public areas, shall be identified with permanent felt tip marker on cover indicating panel and circuit numbers. Black marker for normal branch power, Red marker for emergency branch power.

3.13 INSTALLATION - CIRCUIT BREAKERS IN EXISTING PANELBOARDS:
A. Modifications to existing panelboards shall be as indicated on the Drawings. New equipment shall match existing where possible and in all cases be compatible with existing. Where new breakers are installed in existing equipment, provide all hardware and trim pieces as required for a complete closed installation. Provide new nameplates at equipment where existing breakers are identified by nameplates and provide new breaker identification in directory where existing breakers are identified in a directory.

3.14 INSTALLATION - LUMINAIRES:
A. Install products in accordance with manufacturer's instructions.
B. Provide mounting accessories as required for ceiling installation. Luminaire catalog numbers do not necessarily denote specific mounting accessories for type of ceiling in which the luminaire may be installed.
C. Install suspended luminaires using pendants supported from swivel hangers. Install pendant length required to suspend luminaire at indicated height.
   1. Do not use ceiling tiles to bear weight of luminaires.
   2. Do not use ceiling support system to bear weight of luminaires unless ceiling support system is certified as suitable to do so.
   3. Secure surface-mounted and recessed luminaires to ceiling support channels or framing members or to building structure.
   4. Secure pendant-mounted luminaires to building structure.
   5. Secure lay-in luminaires to ceiling support channels at four corners using NRTL-listed safety clips, sheet metal, or bolts.
   6. In addition to ceiling support wires, provide two galvanized steel safety wire(s), minimum 12 gage, conforming to ASTM A641/A641M, connected from opposing corners of each recessed luminaire to building structure directly above the luminaire. Secure wires at each end with at least three tight turns in 1-1/2-inches.
   7. For pendant-mounted or cable-mounted luminaires, brace pendants, rods, cables, and chains that are 4 feet or longer to prevent swaying. Install minimum of three seismic cables at 120-degree separation. Brace pendants, rods, cables, and chains less than 4 feet if swaying may strike adjacent utilities.
D. Support luminaires larger than 2 x 4-foot size independent of ceiling framing.
E. Locate recessed ceiling luminaires as indicated on reflected ceiling plan.
F. Install surface mounted luminaires plumb and adjust to align with building lines and with each other. Secure to prevent movement.
G. Install recessed luminaires to permit removal from below.
H. Install clips to secure recessed grid-supported luminaires in place.
I. Install wall-mounted luminaires at height as scheduled.
J. Install accessories furnished with each luminaire.
K. Make wiring connections to branch circuit using building wire with insulation suitable for temperature conditions within luminaire.
L. Ground and bond all luminaires.

3.15 TESTING AND ADJUSTING:
A. Furnish all labor and test equipment required for the Work of this Division. Testing work is defined as that work necessary to establish that equipment has been properly assembled, connected, and checked to verify that intent and purpose of Drawings, manufacturer's instruction manuals, and directions of Architect have been accomplished in satisfactory manner.

END OF SECTION

HMR ARCHITECTS
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REGISTERED PROFESSIONAL ENGINEER — No. E 18416 — ELECTRICAL — STATE OF CALIFORNIA
03/11/2026

LICENSED ARCHITECT — No. 24706 — REN. 12/31/25 — STATE OF CALIFORNIA

EDGE ELECTRICAL ASSOCIATES
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BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL SPECIFICATIONS

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

E0.4

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Solano Community College Building 1400	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2026-02-20T18:34:24-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Solano	04 Total Conditioned Floor Area (ft²)	30,976
02	Climate Zone	12	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Restaurant ● School or Classroom

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)2 / §180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	30976	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	30976			

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Solano Community College Building 1400	**Report Page:** (Page 2 of 7)
	Date Prepared: 2026-02-20T18:34:24-05:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 /§170.2(e)	Allowed Lighting Power per §140.6(b) /§170.2(e) (Watts)					Adjusted Lighting Power per §140.6(a) /§170.2(e) (Watts)					Compliance Results
	01	02	03		04		05	06		07	08
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 /§170.2(e)4 (See Table I)	Area Category Additional §140.6(c)2G / (+)4Av (+) (See Table J)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 /§170.2(e)1B (-) (See Table P)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6 /§170.2(e)**
Conditioned	20,128.55			=	20,128.55	≥	13,871		=	13871	COMPLIES
Unconditioned				=		≥	0	=			
Controls Compliance (See Table H for Details)											COMPLIES
One-for-one Luminaire Alterations Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Solano Community College Building 1400	**Report Page:** (Page 3 of 7)
	Date Prepared: 2026-02-20T18:34:24-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Pass	Fail
A1	2x4 Troffer	No	NA	34.2	Mfr. Spec	49	No	1,675.8	☐	☐
A2	2x4 Troffer	No	NA	48	Mfr. Spec	10	No	480	☐	☐
B1	2x2 Troffer	No	NA	37.2	Mfr. Spec	12	No	446.4	☐	☐
B2	2x2 Troffer	No	NA	48.3	Mfr. Spec	2	No	96.6	☐	☐
C	1x4 Surface	No	NA	42.3	Mfr. Spec	36	No	1,522.8	☐	☐
D1	8" Downlight	No	NA	24.3	Mfr. Spec	109	No	2,648.7	☐	☐
D2	9.5" Downlight	No	NA	31.5	Mfr. Spec	19	No	598.5	☐	☐
F	3' Pendant	No	NA	30.6	Mfr. Spec	33	No	1,009.8	☐	☐
G12	12' Indirect LED	No	NA	157.8	Mfr. Spec	2	No	315.6	☐	☐
G16	16' Indirect LED	No	NA	210.4	Mfr. Spec	1	No	210.4	☐	☐
G20	20' Indirect LED	No	NA	263	Mfr. Spec	3	No	789	☐	☐
G32	32' Indirect LED	No	NA	420.8	Mfr. Spec	1	No	420.8	☐	☐
G48	48' Indirect LED	No	NA	631.2	Mfr. Spec	3	No	1,893.6	☐	☐
H	1x4 Kitchen LED	No	NA	25	Mfr. Spec	53	No	1,325	☐	☐
I	4' Up/Down Light	No	NA	10.1	Mfr. Spec	10	No	101	☐	☐
J	4' Linear	No	NA	30	Mfr. Spec	4	No	120	☐	☐
K	2' Linear	No	NA	31	Mfr. Spec	7	No	217	☐	☐
Total Designed Watts: CONDITIONED SPACES								13,871		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B /§170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Solano Community College Building 1400	**Report Page:** (Page 4 of 7)
	Date Prepared: 2026-02-20T18:34:24-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) /§160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)4C	☐	☐
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) /§160.5(b)4A	Multi-Level Controls §130.1(b) /§160.5(b)4B	Shut-Off Controls §130.1(c) /§160.5(b)4C	Primary/Sky it Daylighting §130.1(d) /§160.5(b)4D	Secondary Daylighting §130.1(d) §160.5(b)4D	Interlocked Systems §140.6(a1)/ §170.2(e)2A	Pass	Fail
Dinning/Kitchen	Restaurant	Readily Accessible and located in the same space.	Dimmer	Auto. Time Switch	Included	Included	No	☐	☐
								13	
								Plan Sheet Showing Daylit Zones:	
								E1.2	

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Solano Community College Building 1400	**Report Page:** (Page 5 of 7)
	Date Prepared: 2026-02-20T18:34:24-05:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area CategoryPAF	PAF
Dinning/Kitchen	Restaurant	0.65	30,967	20,128.55	No	No
		TOTALS:	30,967	20,128.55	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Solano Community College Building 1400	**Report Page:** (Page 6 of 7)
	Date Prepared: 2026-02-20T18:34:24-05:00

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Dinning/Kitchen
NRCA-LTI-03-A - Must be submitted for daylight responsive controls.	Dinning/Kitchen
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Dinning/Kitchen

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Solano Community College Building 1400	**Report Page:** (Page 7 of 7)
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94546	**Date Prepared:** 2026-02-20T18:34:24-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Yip	Documentation Author Signature:
Company: EDGE Electrical Consulting	Signature Date: 3/11/2026
Address: 400 R Street, Suite 333	CEA/HERS/ECC Certification Identification (If applicable):
City/State/Zip: Sacramento, CA 95811	Phone: (916) 256-2460

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy.

Responsible Person Name: Gordon Wong	Responsible Person Signature:
Responsible Person Scope:	
Company: EDGE Electrical Consulting	Date Signed: 3/11/2026
Address: 400 R Street, Suite 333	License: E18416
City/State/Zip: Sacramento, CA 95811	Phone: (916) 256-2460

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

REGISTERED PROFESSIONAL ENGINEER — JASON PAK KEE YIP — No. E 18416 — ELECTRICAL — STATE OF CALIFORNIA
03/11/2026

LICENSED ARCHITECT — No. 24706 — REN. 12/31/25 — STATE OF CALIFORNIA

EDGE ELECTRICAL CONSULTING
Project Number M232
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BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

TITLE 24

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

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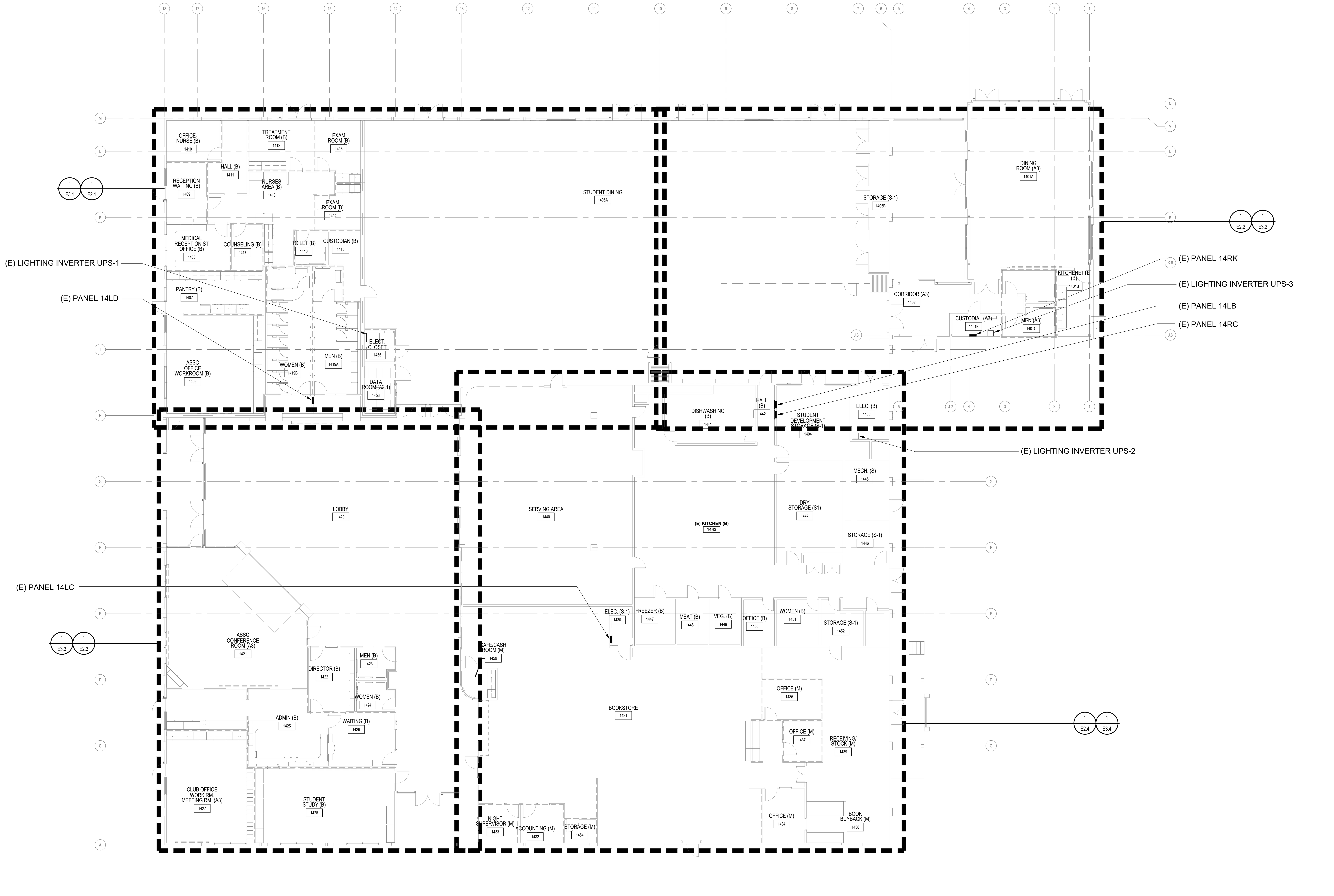

1 OVERALL FLOOR PLAN - ELECTRICAL
SCALE: 3/32" = 1' - 0"

HMR ARCHITECTS
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03/11/2026

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BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

OVERALL FLOOR PLAN - ELECTRICAL

FEBRUARY 20, 2026

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JOB NO. 25072

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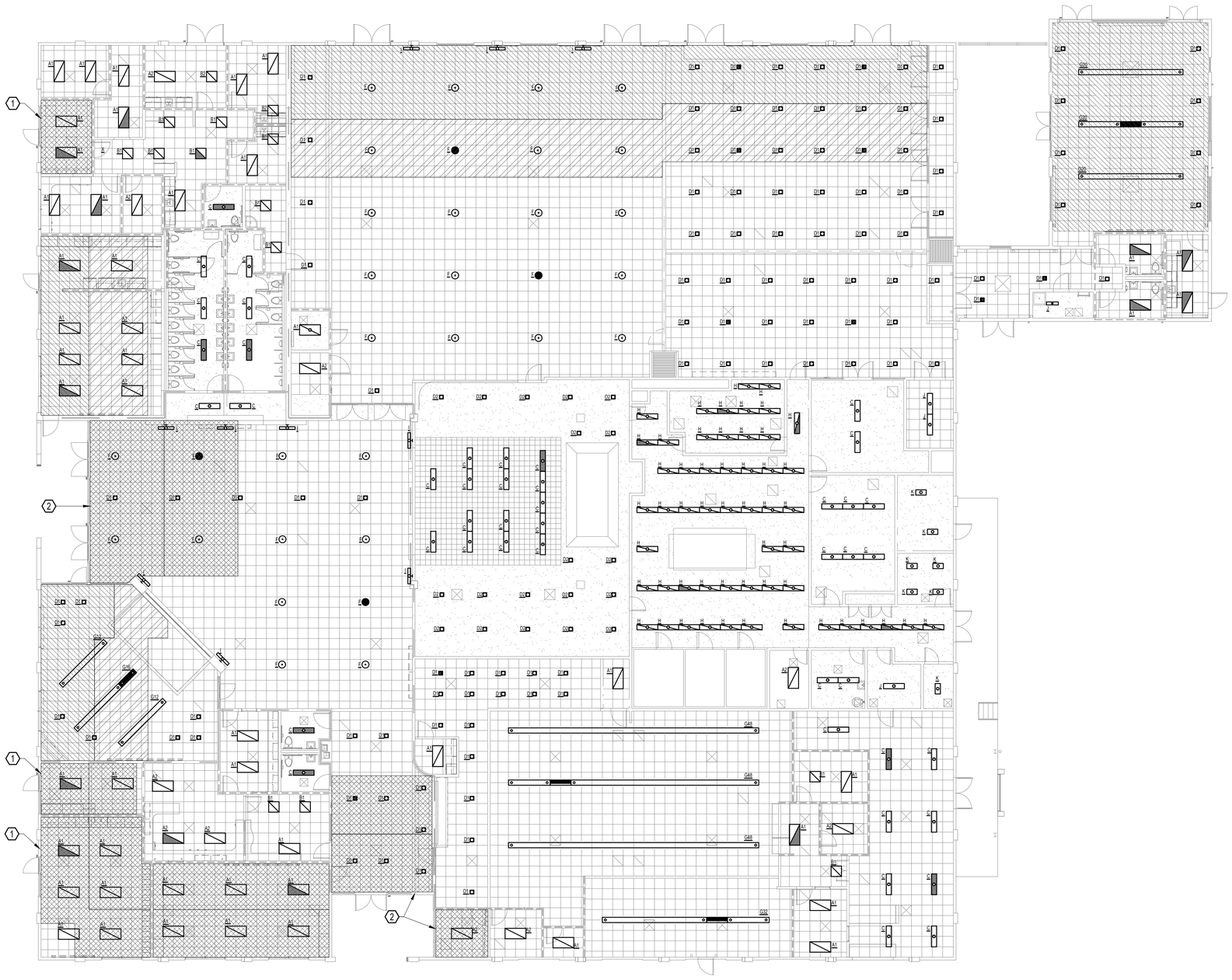

1 OVERALL FLOOR PLAN - DAYLIT ZONES
SCALE: 3/32" = 1' - 0"

NORTH

DAYLIT ZONE HATCH SCHEDULE

HATCH	DESCRIPTION
	SKYLIT/PRIMARY SIDELIT DAYLIT ZONE
	SECONDARY SIDELIT DAYLIGHT ZONE
	DAYLIT ZONE EXEMPT FROM DAYLIGHTING CONTROLS, SEE NUMBERED NOTE FOR EXEMPTION.

NUMBERED NOTES

1. AUTOMATIC DAYLIGHTING IS NOT REQUIRED FOR THIS ZONE. TOTAL COMBINED WATTAGE FOR GENERAL LIGHTING IN THIS DAYLIGHT ZONE IS LESS THAN 120 WATTS. EXCEPTION 3 TO SECTION 130.1(d).

2. AUTOMATIC DAYLIGHTING IS NOT REQUIRED FOR THIS ZONE. AREA IS ADJACENT TO VERTICAL GLAZING BELOW AN OVERHANG, WHERE THE OVERHANG COVERS THE ENTIRE WIDTH OF VERTICAL GLAZING, NO GLAZING IS ABOVE THE OVERHANG, AND THE RATIO OF THE OVERHANG PROJECTION TO OVERHANG RISE IS GREATER THAN 1.5 FOR SOUTH, EAST AND WEST ORIENTATIONS, OR GREATER THAN 1 FOR NORTH ORIENTATIONS. EXCEPTION 2 TO SECTION 130.1(d)

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REGISTERED PROFESSIONAL ENGINEER — No. E 18416 — ELECTRICAL — STATE OF CALIFORNIA
03/11/2026

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BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
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NO.	DESCRIPTION	DATE

OVERALL FLOOR PLAN - DAYLIGHT ZONES

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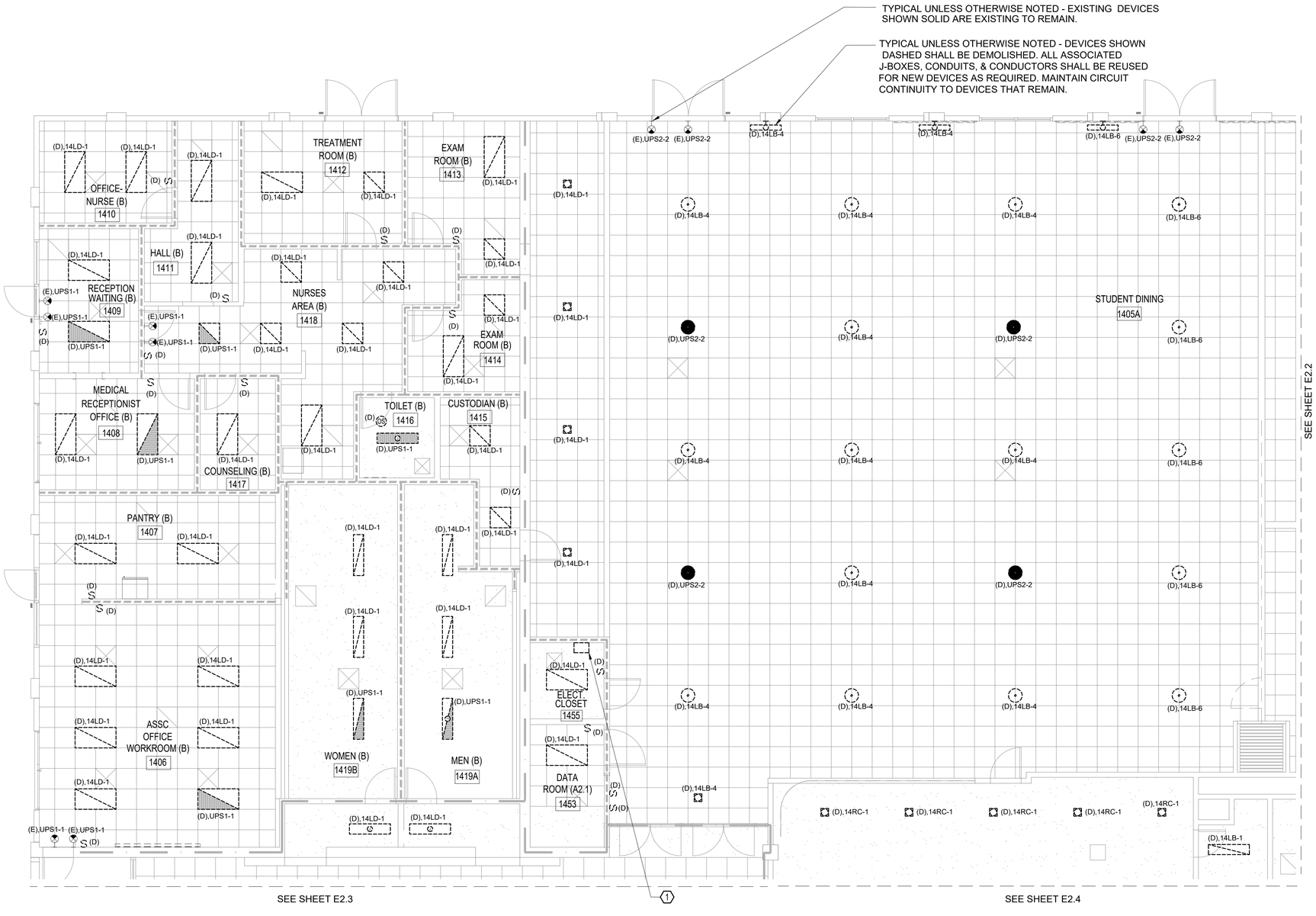

1 ENLARGED FLOOR PLAN - NORTHWEST CORNER - DEMO LIGHTING
SCALE: 3/16" = 1' - 0"

NORTH

SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.0 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).
3. TYPICAL ALL LIGHT FIXTURES SHALL BE REMOVED, (E) CIRCUITING SHALL REMAIN AND TO BE REUSED FOR (N) LIGHT FIXTURES. ALL (E) J-BOXES, CONDUITS, AND CONDUCTORS SHALL BE REUSED FOR (N) LIGHT FIXTURES WHERE POSSIBLE.

NUMBERED NOTES

1 (E) LIGHTING CONTROL PANEL SHALL BE DEMOLISHED. REMOVE ALL ASSOCIATED J-BOXES, CONDUITS, & CONDUCTORS.

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REGISTERED PROFESSIONAL ENGINEER JASON PAK KEI YIP No. E 18416 ELECTRICAL STATE OF CALIFORNIA
03/11/2026

LICENSED ARCHITECT REGISTERED PROFESSIONAL ENGINEER No. 24706 REN. 12/31/25 STATE OF CALIFORNIA

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BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
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REVISIONS

NO.	DESCRIPTION	DATE

ENLARGED FLOOR PLAN - NORTHWEST CORNER - DEMO LIGHTING

FEBRUARY 20, 2026

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JOB NO. 25072

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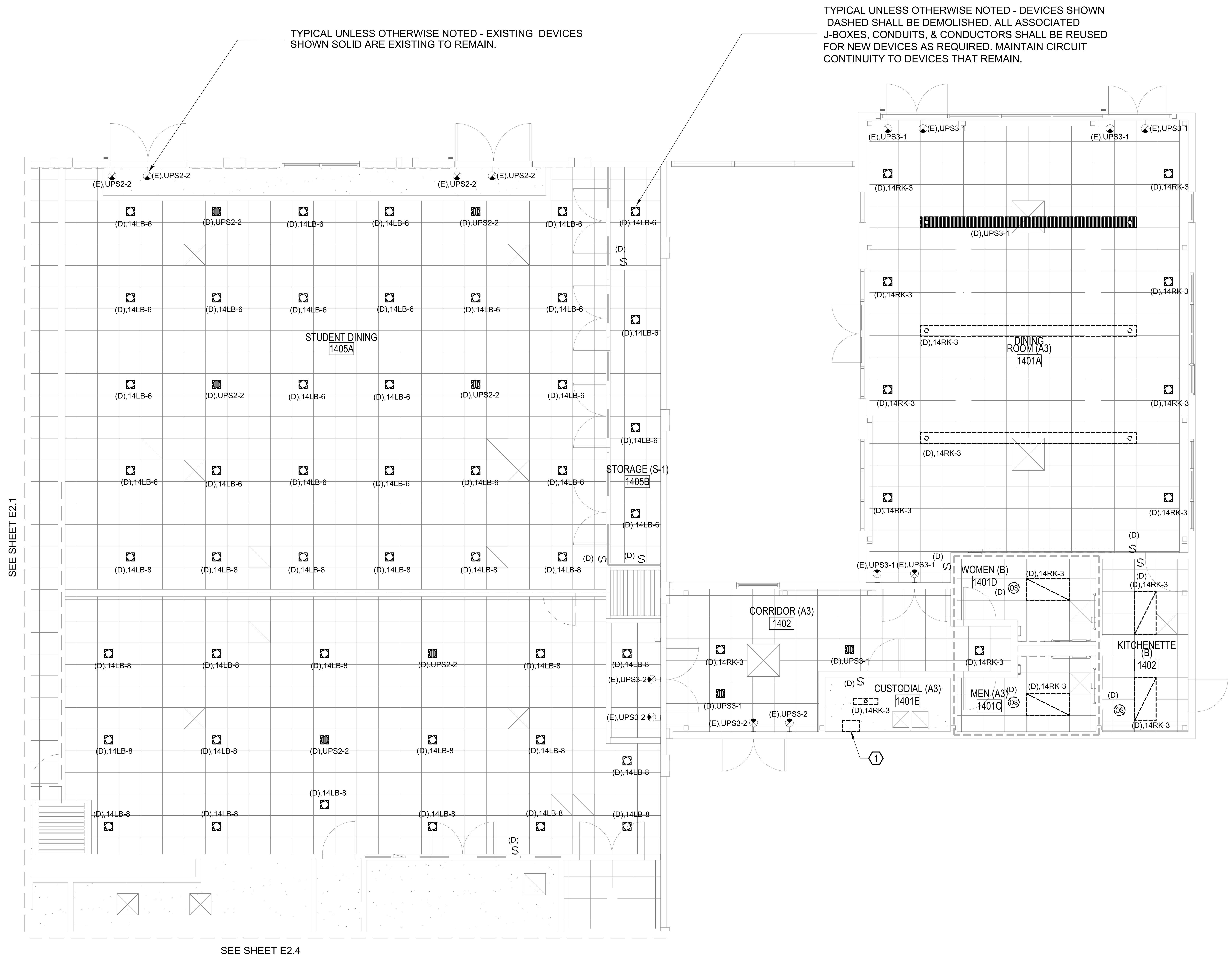

1 ENLARGED FLOOR PLAN - NORTHEAST CORNER - DEMO LIGHTING

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

SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.0 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).
3. TYPICAL ALL LIGHT FIXTURES SHALL BE REMOVED, (E) CIRCUITING SHALL REMAIN AND TO BE REUSED FOR (N) LIGHT FIXTURES. ALL (E) J-BOXES, CONDUITS, AND CONDUCTORS SHALL BE REUSED FOR (N) LIGHT FIXTURES WHERE POSSIBLE.

NUMBERED NOTES

1. (E) LIGHTING CONTROL PANEL SHALL BE DEMOLISHED. REMOVE ALL ASSOCIATED J-BOXES, CONDUITS, & CONDUCTORS.

HMRARCHITECTS

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EDGE

Project Number M232
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BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

ENLARGED FLOOR PLAN - NORTHEAST CORNER - DEMO LIGHTING

FEBRUARY 20, 2026

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CHECKED BY: LAI

JOB NO. 25072

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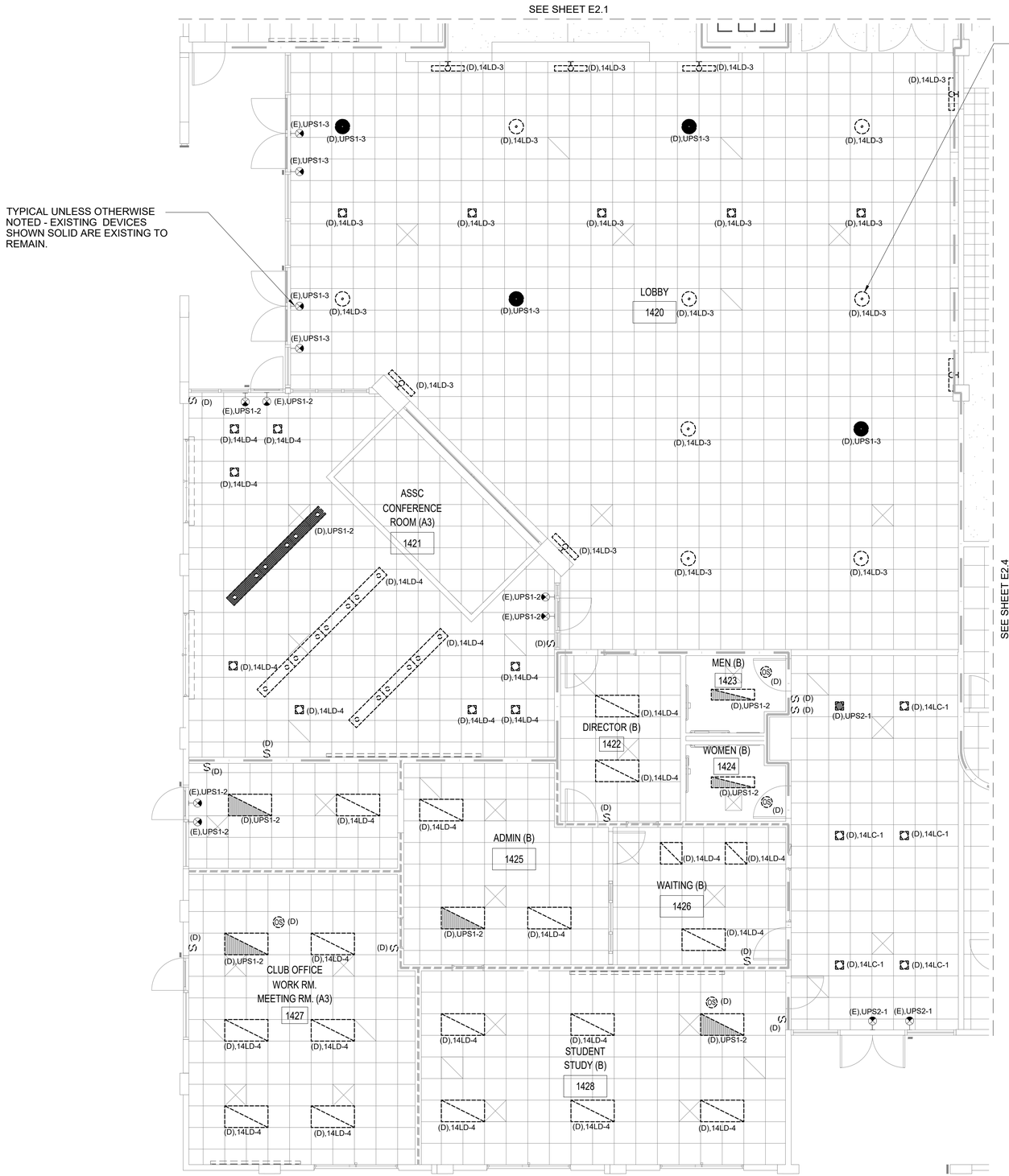

1 ENLARGED FLOOR PLAN - SOUTHWEST CORNER - DEMO LIGHTING
SCALE: 3/16" = 1' - 0"

SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.0 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).
3. TYPICAL ALL LIGHT FIXTURES SHALL BE REMOVED, (E) CIRCUITING SHALL REMAIN AND TO BE REUSED FOR (N) LIGHT FIXTURES. ALL (E) J-BOXES, CONDUITS, AND CONDUCTORS SHALL BE REUSED FOR (N) LIGHT FIXTURES WHERE POSSIBLE.

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REGISTERED PROFESSIONAL ENGINEER JASON PAR KEE YIP No. E 18416 ELECTRICAL STATE OF CALIFORNIA
03/11/2026

LICENSED ARCHITECT No. 24706 REN. 12/31/25 STATE OF CALIFORNIA

EDGE
Project Number M232
Contact LAI
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine | Hawaii

BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

ENLARGED FLOOR PLAN - SOUTHWEST CORNER - DEMO LIGHTING

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

E2.3

3/11/2026 8:46 AM JASON.YIP
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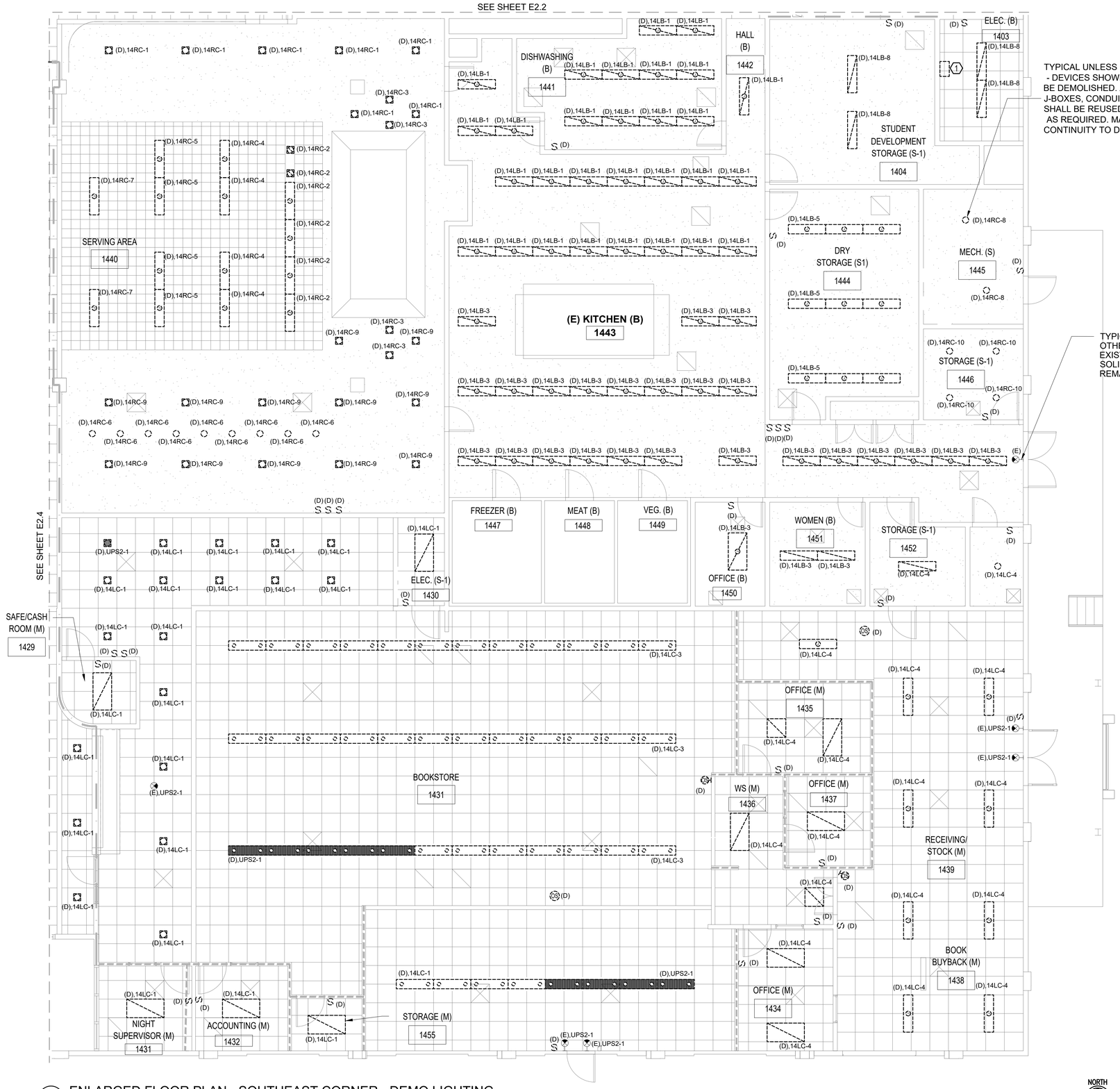

1 ENLARGED FLOOR PLAN - SOUTHEAST CORNER - DEMO LIGHTING

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

TYPICAL UNLESS OTHERWISE NOTED - DEVICES SHOWN DASHED SHALL BE DEMOLISHED. ALL ASSOCIATED J-BOXES, CONDUITS, & CONDUCTORS SHALL BE REUSED FOR NEW DEVICES AS REQUIRED. MAINTAIN CIRCUIT CONTINUITY TO DEVICES THAT REMAIN.

TYPICAL UNLESS OTHERWISE NOTED - EXISTING DEVICES SHOWN SOLID ARE EXISTING TO REMAIN.

SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.0 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).
3. TYPICAL ALL LIGHT FIXTURES SHALL BE REMOVED, (E) CIRCUITING SHALL REMAIN AND TO BE REUSED FOR (N) LIGHT FIXTURES. ALL (E) J-BOXES, CONDUITS, AND CONDUCTORS SHALL BE REUSED FOR (N) LIGHT FIXTURES WHERE POSSIBLE.

NUMBERED NOTES

1 (E) LIGHTING CONTROL PANEL SHALL BE DEMOLISHED. REMOVE ALL ASSOCIATED J-BOXES, CONDUITS, & CONDUCTORS. (E) UNISTRUT ON THE WALL SHALL REMAIN AND BE REUSED FOR (N) LIGHTING CONTROL PANELS.

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03/11/2026

LICENSED ARCHITECT — No. 24706 — REN. 12/31/25 — STATE OF CALIFORNIA

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ENLARGED FLOOR PLAN - SOUTHEAST CORNER - DEMO LIGHTING

FEBRUARY 20, 2026

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E2.4

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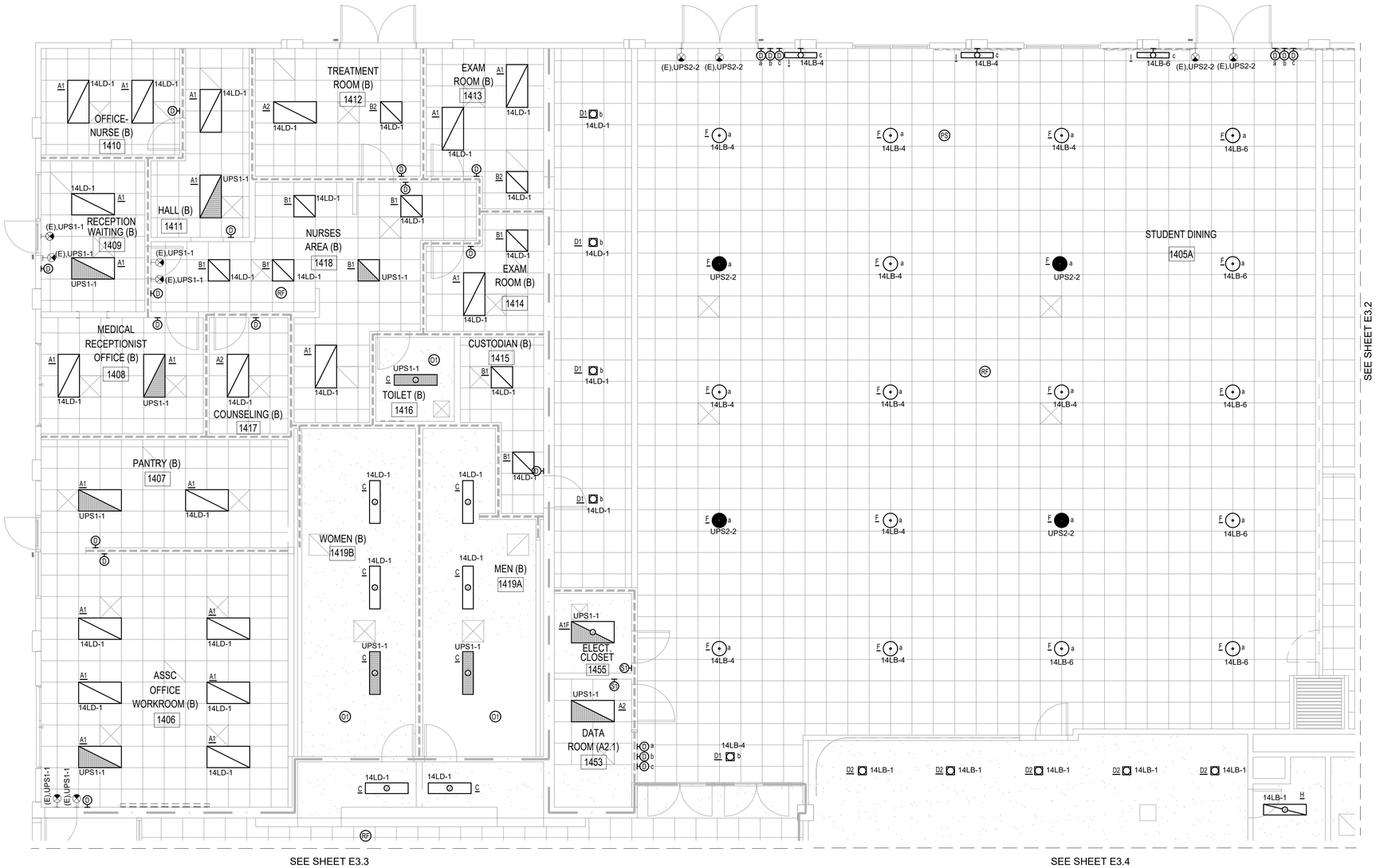

1 ENLARGED FLOOR PLAN - NORTHWEST CORNER - NEW LIGHTING

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

NORTH

SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.1 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).

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REGISTERED PROFESSIONAL ENGINEER — JASON PAK KEE YIP — No. E 18416 — ELECTRICAL — STATE OF CALIFORNIA
03/11/2026

LICENSED ARCHITECT — REGISTERED PROFESSIONAL — No. 24706 — REN. 12/31/25 — STATE OF CALIFORNIA

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ENLARGED FLOOR PLAN - NORTHWEST CORNER - NEW LIGHTING

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E3.1

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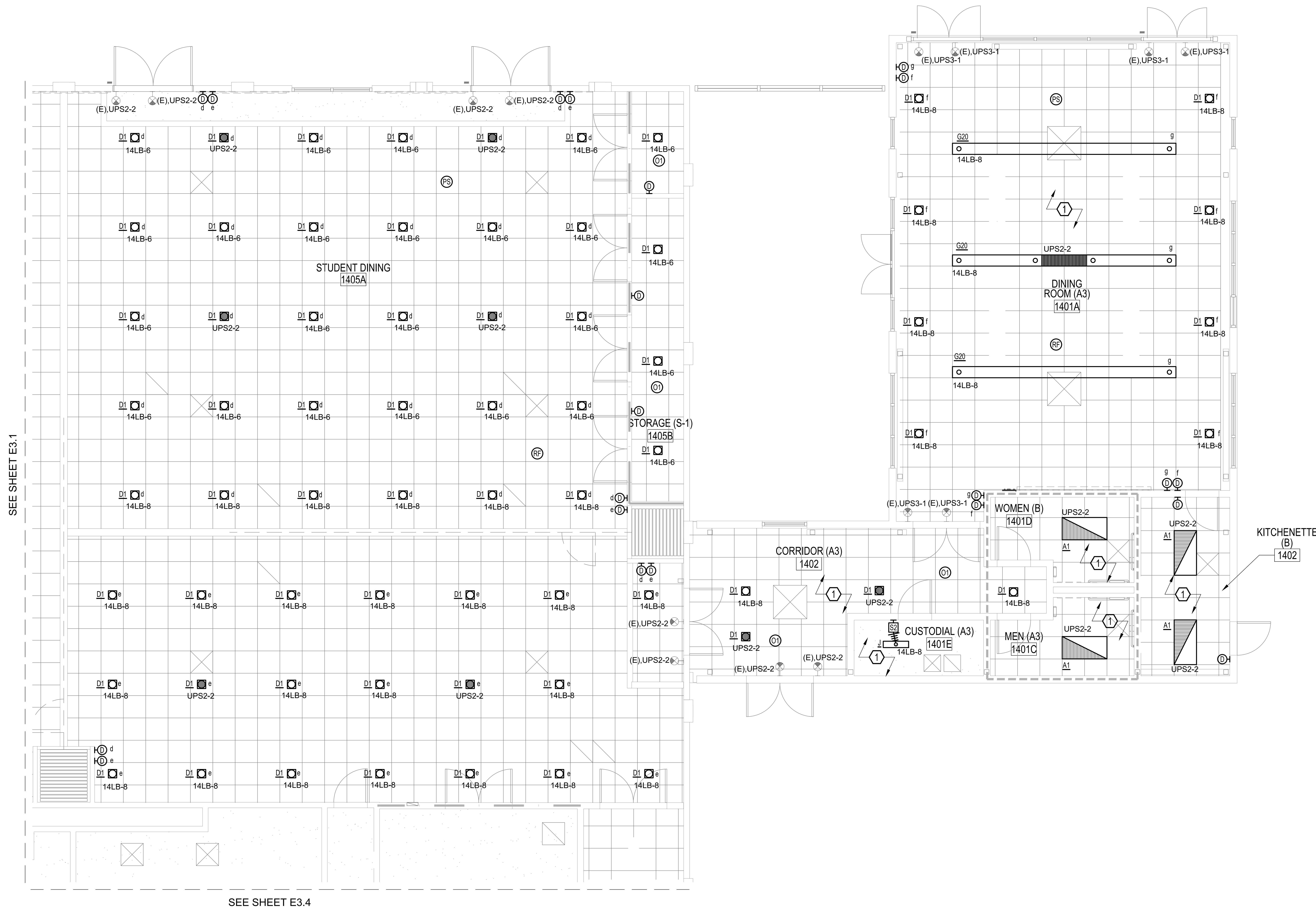
SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.1 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).

NUMBERED NOTES

(1) TYPICAL, REMOVE FROM (E) 120V CIRCUIT AND CONNECT TO NEAREST 277V CIRCUIT INDICATED FOR NEW LIGHTS. REUSE EXISTING CONDUITS AND CONDUCTORS WHERE POSSIBLE, PROVIDE NEW WHERE REQUIRED.



1 ENLARGED FLOOR PLAN - NORTHEAST CORNER - NEW LIGHTING
SCALE: 3/16" = 1' - 0"

NORTH

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ENLARGED FLOOR PLAN - NORTHEAST CORNER - NEW LIGHTING

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E3.2

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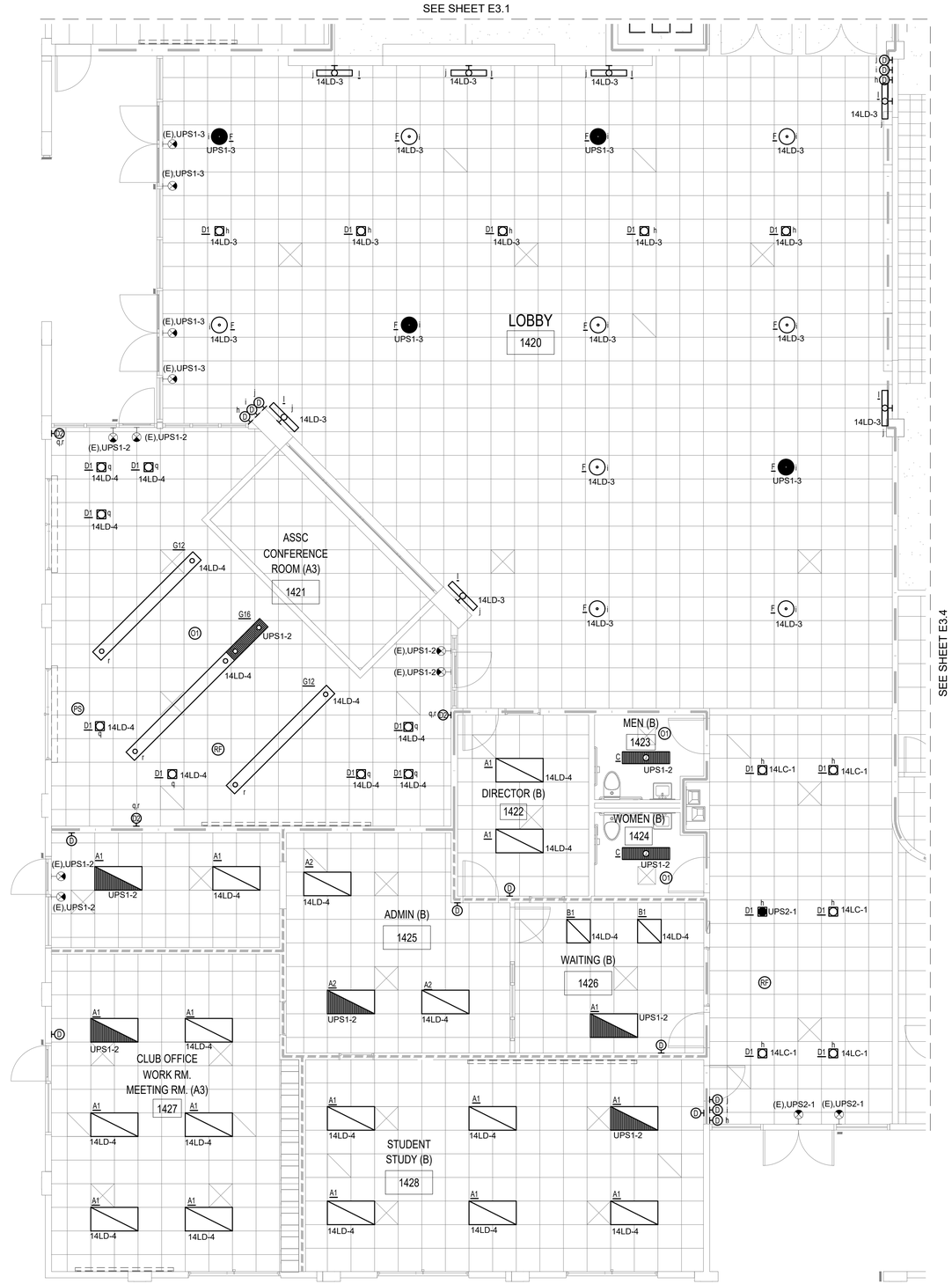

1 ENLARGED FLOOR PLAN - SOUTHWEST CORNER - NEW LIGHTING

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

SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.1 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).

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03/11/2026

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E3.3

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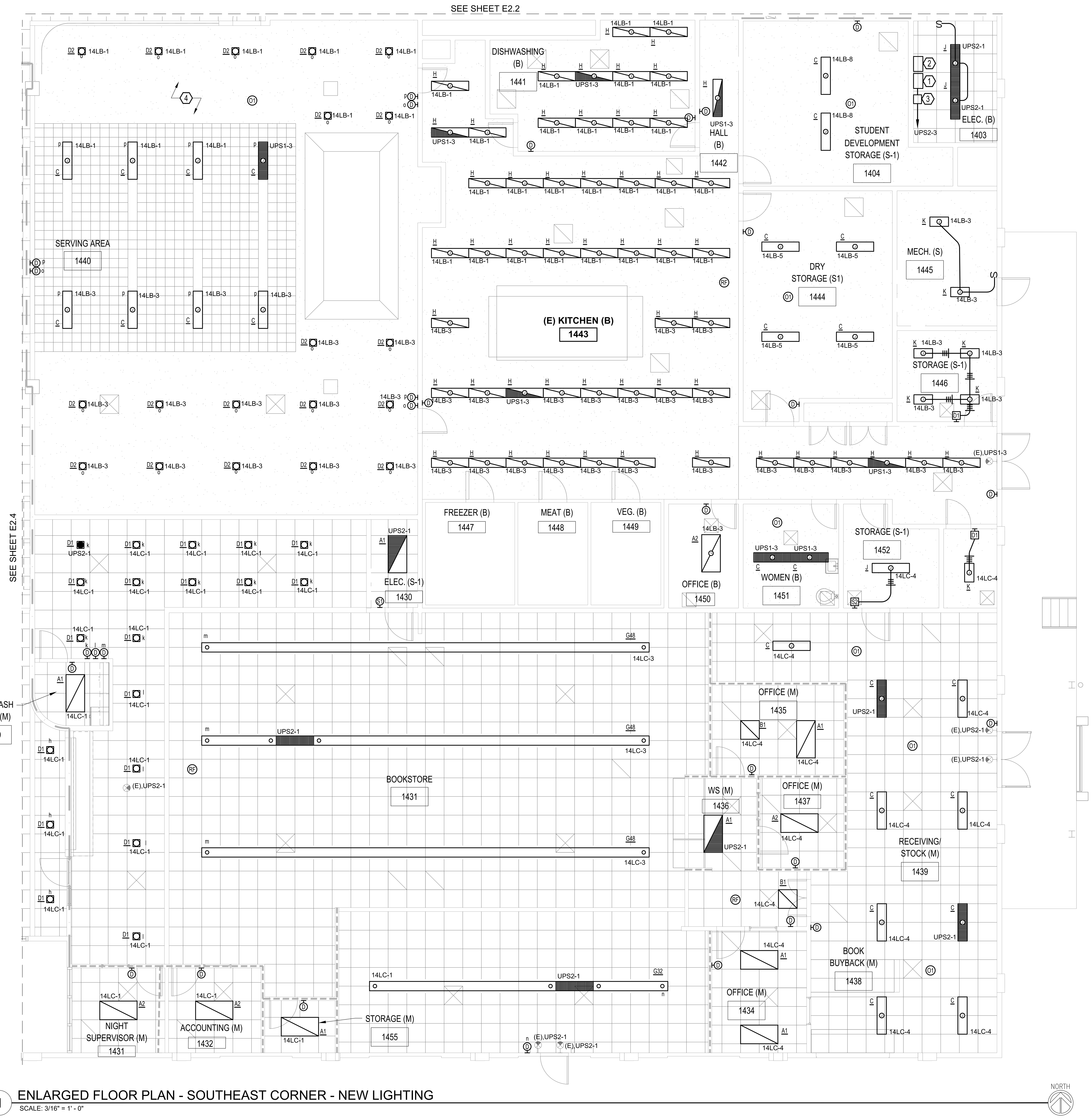

1 ENLARGED FLOOR PLAN - SOUTHEAST CORNER - NEW LIGHTING

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

SHEET NOTES

1. REFER TO GENERAL NOTES ON SHEET E0.1 FOR ADDITIONAL CRITERIA.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).

NUMBERED NOTES

1. (N) LIGHTING CONTROL PANEL LUTRON ATHENA #QP5-2L-POE-EM. MOUNT TO (E) UNISTRUT ON THE WALL. REFER TO WIRING DIAGRAM ON SHEET E5.3 FOR ADDITIONAL INFORMATION.
2. (N) LIGHTING CONTROL PANEL LUTRON ATHENA #Q-POE-PNL-EM. MOUNT TO (E) UNISTRUT ON THE WALL. REFER TO WIRING DIAGRAM ON SHEET E5.3 FOR ADDITIONAL INFORMATION.
3. PROVIDE (N) 1.5KVA 277V TO 120V STEP DOWN TRANSFORMER SQUARE D #US10PE216277. MOUNT ON (E) UNISTRUT ON THE WALL.
4. TYPICAL, REMOVE FROM (E) 120V CIRCUIT AND CONNECT TO NEAREST 277V CIRCUIT INDICATED FOR NEW LIGHTS. REUSE EXISTING CONDUITS AND CONDUCTORS WHERE POSSIBLE, PROVIDE NEW WHERE REQUIRED.

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ENLARGED FLOOR PLAN - SOUTHEAST CORNER - NEW LIGHTING

FEBRUARY 20, 2026

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E3.4

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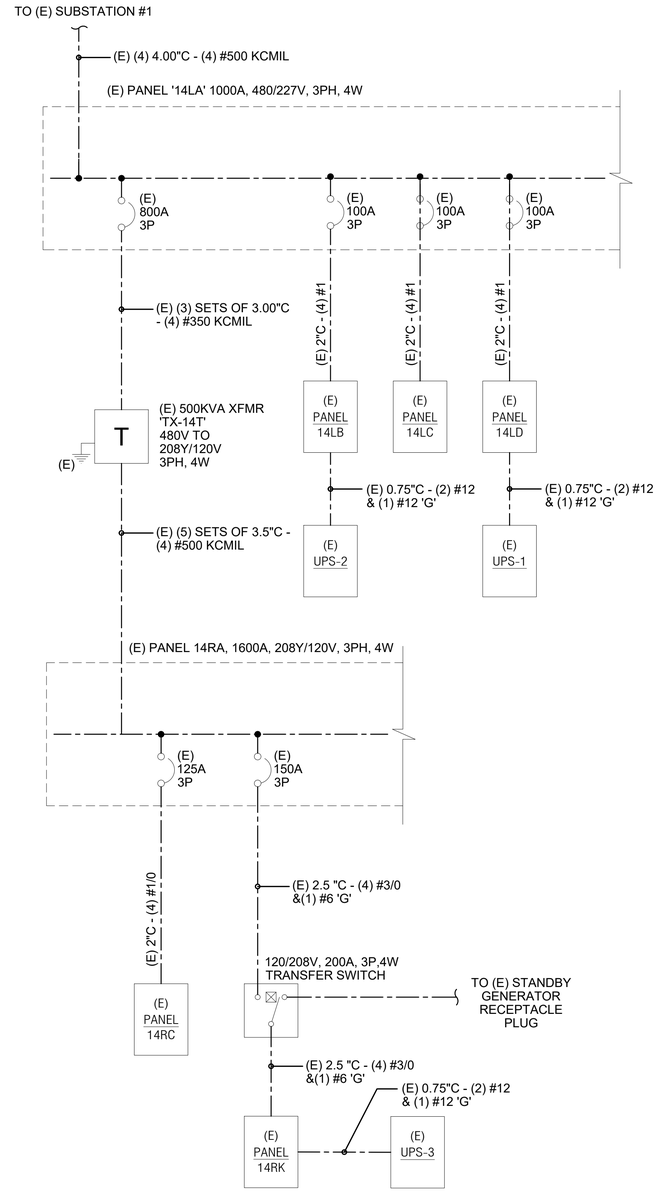

1 PARTAIL ONE-LINE DIAGRAM
NO SCALE

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ONE-LINE DIAGRAM

FEBRUARY 20, 2026

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CHECKED BY: LAI
JOB NO: 25072

E4.1

(E) PANEL 14LB

SECTION: 1 OF 1	BUS RATING: 100 AMP	THREE PHASE	VOLTAGE
SERVING: NORMAL	MAIN BREAKER:	4-WIRE	480Y/277
LOCATION: RM 1442	MOUNTING: X FLUSH	X MAIN LUGS ONLY	
PANEL A.I.C. EXISTING	SURFACE	FED-THRU LUGS	

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
LTG DISWASHER & KITCHEN	**0.89**				**20**	**1**	**1**	A	**2**	**1**	**20**	**1.98**				**UPS-2**
LTG KITCHEN SOUTH	**1.51**				**20**	**1**	**3**	B	**4**	**1**	**20**	**0.55**				**LTG - STUDENT DINING WEST**
LTG KITCHEN - DRY STORAGE	**0.17**				**20**	**1**	**5**	C	**6**	**1**	**20**	**0.73**				**LTG - STUDENT DINING WEST**
LTG SOUTH OUTSIDE WALK	2.00				20	1	7	A	**8**	**1**	**20**	**1.79**				**LTG - STUDENT DINING SE**
LTG NORTH OUTSIDE WALK	2.00				20	1	9	B	**10**	**1**	**20**					**SPARE**
SPARE					20	1	11	C	12	1	20					SPARE
SPARE					20	1	13	A	14	1	-					SPACE
SPACE					-	1	15	B	16	1	-					SPACE
SPACE					-	1	17	C	18	1	-					SPACE
SPACE					-	1	19	A	20	1	-					SPACE
SPACE					-	1	21	B	22	1	-					SPACE
SPACE					-	1	23	C	24	1	-					SPACE
SPACE					-	1	25	A	26	1	-					SPACE
SPACE					-	1	27	B	28	1	-					SPACE
SPACE					-	1	29	C	30	1	-					SPACE
TOTALS --------->	6.57	0.00	0.00	0.00								5.05	0.00	0.00	0.00	<--------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 14.53 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD:	CONNECTED KVA TOTAL/PHASE	A	B	C	MINIMUM FEEDER CAPACITY
14.53 KVA		6.66	4.06	0.90	14.53 KVA 17.47 AMP

(E) PANEL 14LC

SECTION: 1 OF 1	BUS RATING: 100 AMP	THREE PHASE	VOLTAGE
SERVING: NORMAL	MAIN BREAKER:	4-WIRE	480Y/277
LOCATION: RM 1430	MOUNTING: X FLUSH	X MAIN LUGS ONLY	
PANEL A.I.C. EXISTING	SURFACE	FED-THRU LUGS	

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
LIGHTING RM. 1420, 1431	**1.18**				**20**	**1**	**1**	A	2	1	20					SPARE
LIGHTING RM. 1431	**1.89**				**20**	**1**	**3**	B	**4**	**1**	**20**	**0.54**				**LTG RM. 1434, 1435, 1437, 1439**
SPARE					20	1	5	C	6	1	20					SPARE
SPARE					20	1	7	A	8	1	20					SPARE
SPARE					20	1	9	B	10	1	20					SPARE
SPARE					20	1	11	C	12	1	20					SPARE
SPARE					20	1	13	A	14	1	20					SPARE
SPARE					20	1	15	B	16	1	20					SPARE
SPARE					20	1	17	C	18							SPACE
SPACE							19	A	20							SPACE
SPACE							21	B	22							SPACE
SPACE							23	C	24							SPACE
SPACE							25	A	26							SPACE
SPACE							27	B	28							SPACE
SPACE							29	C	30							SPACE
TOTALS --------->	3.07	0.00	0.00	0.00								0.54	0.00	0.00	0.00	<--------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 4.51 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD:	CONNECTED KVA TOTAL/PHASE	A	B	C	MINIMUM FEEDER CAPACITY
4.51 KVA		1.18	2.43	0.00	4.51 KVA 5.43 AMP

(E) PANEL 14LD

SECTION: 1 OF 1	BUS RATING: 100 AMP	THREE PHASE	VOLTAGE
SERVING: NORMAL	MAIN BREAKER:	4-WIRE	480Y/277
LOCATION: RM 1420	MOUNTING: X FLUSH	X MAIN LUGS ONLY	
PANEL A.I.C. EXISTING	SURFACE	FED-THRU LUGS	

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
LIGHTING N.W.	**1.40**				**20**	**1**	**1**	A	**2**	**1**	**20**	**1.02**				**UPS-1**
LIGHTING RM. 1420 & LOBBY	**0.50**				**20**	**1**	**3**	B	**4**	**1**	**20**	**1.21**				**LIGHTING SOUTHWEST**
SPARE					20	1	5	C	6	1	20					SPARE
SPARE					20	1	7	A	8	1	20					SPARE
SPARE					20	1	9	B	10	1	20					SPARE
SPARE					20	1	11	C	12	1	20					SPARE
SPACE							13	A	14							SPACE
SPACE							15	B	16							SPACE
SPACE							17	C	18							SPACE
SPACE							19	A	20							SPACE
SPACE							21	B	22							SPACE
SPACE							23	C	24							SPACE
SPACE							25	A	26							SPACE
SPACE							27	B	28							SPACE
SPACE							29	C	30							SPACE
TOTALS --------->	1.90	0.00	0.00	0.00								2.23	0.00	0.00	0.00	<--------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 5.16 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD:	CONNECTED KVA TOTAL/PHASE	A	B	C	MINIMUM FEEDER CAPACITY
5.16 KVA		2.42	1.71	0.00	5.16 KVA 6.21 AMP

(E) PANEL 14RC

SECTION 1 OF 1	BUS RATING: 225 AMP	THREE PHASE	VOLTAGE
SERVING NORMAL	MAIN BREAKER:	4-WIRE	208Y/120
LOCATION: RM 1442	MOUNTING: X FLUSH	X MAIN LUGS ONLY	
PANEL A.I.C. EXISTING	SURFACE	FED-THRU LUGS	

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
SPARE					**20**	**1**	**1**	A	**2**	**20**	**1**					**SPARE**
SPARE					**20**	**1**	**3**	B	**4**	**20**	**1**					**SPARE**
SPARE					**20**	**1**	**5**	C	**6**	**20**	**1**					**SPARE**
SPARE					**20**	**1**	**7**	A	**8**	**20**	**1**					**SPARE**
SPARE					**20**	**1**	**9**	B	10	20	1					LIGHTS-GARBAGE RM REATRM,CUS RM
HOOD LIGHTS -SERVING AREA					20	1	11	C	12	20	1					OUTSIDE LIGHTS & TIME CLOCK
HOOD LIGHTS KITCHEN					20	1	13	A	14	20	1					SPARE
PLUGS - DINING WEST 1405A					20	1	15	B	16	20	1					SPARE
SPARE					20	1	17	C	18	20	1					OUTSIDE LIGHTS
PLUG DINING,STORAGE EAST 1405A &B					20	1	19	A	20	20	1					PLUGS- DINING SOUTH 1405A
PLUG DINING NORTH & SOUTH 1405A					20	1	21	B	22	20	1					PLUGS DINNING ROOM
PLUGS VENDING MACHINE W.P. & N.E					20	1	23	C	24	20	1					PLUG DRY STRG RM & SOUND CTR RM
PLUGS VENDING MACHINE					20	1	25	A	26	20	1					CONTROL CVT MCC 14
PLUGS VENDING MACHINE					20	1	27	B	28	20	1					CONTROL CVT MCC 14
PLUGS VENDING MACHINE N. WALL					20	1	29	C	30	20	1					PLUG VENDING MACHINE
CLOCK RECTIFIER					20	1	31	A	32	20	1					PLUG VENDING MACHINE
PLUG TEL BOARD & PLUGS ROOF					20	1	33	B	34	20	1					EXHAUST FAN E-7
EXHAUST FAN E-6					20	1	35	C	36	20	1					EXHAUST FAN E-5
EXHAUST FAN E-4					20	1	37	A	38	20	1					LIGHTS & WALK-IN FREEZE BOXES E.
EXHAUST FAN E-9					20	1	39	B	40	20	1					LTS & WALK-IN FREEZE BOXES CTR
CIRCULATOR PUMP					20	1	41	C	42	20	1					LIGHTS ONLY WALK-IN BOX WEST
TOTALS --------->	0.00	0.00	0.00	0.00								0.00	0.00	0.00	0.00	<--------- TOTALS

NET LOAD REDUCTION

(E) PANEL 14RK

SECTION 1 OF 1	BUS RATING: 200 AMP	THREE PHASE	VOLTAGE
SERVING EMERGENCY	MAIN BREAKER:	4-WIRE	208Y/120
LOCATION: RM 1401E	MOUNTING: FLUSH	X MAIN LUGS ONLY	
PANEL A.I.C. EXISTING	X SURFACE	FED-THRU LUGS	

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
SPARE					20	1	1	A	2	1	20					**UPS -3**
SPARE					**20**	**1**	**3**	B	4	1	20		0.54			RECEPTACLE RM. 1401A
RECEPTACLE RM. 1401A		0.36			20	1	5	C	6	1	20		0.36			RECEPTACLE RM. 1401A
RECEPTACLE RM. 1401A		0.36			20	1	7	A	8	1	20		1.20			REFRIGERATOR RM. 1401A
RECEPTACLE RM. 1401A		0.54			20	1	9	B	10	1	20		0.36			RECEPTACLE RM. 1401B
RECEPTACLE RM. 1402		0.72			20	1	11	C	12	1	20		0.36			RECEPTACLE RM. 1401B
WIRELESS ANTENNA				1.10	15	2	13	A	14	2	30			2.40		CU-1
				1.10			15	B	16					2.40		
SPARE					30	2	17	C	18	2	30			2.40		CU-2
							19	A	20					2.40		
SPARE					20	1	21	B	22	2	15			0.84		CU-3
EF-2 & 3			0.48		20	1	23	C	24					0.84		
EF-1 & 4			0.48		20	1	25	A	26	1	20		0.70			OUTSIDE RECEPTACLES AND ROOF
SPARE					30	2	27	B	28	1	20	0.21				EXTERIOR LIGHTS
							29	C	30							SPACE
TOTALS --------->	0.00	1.98	0.96	2.20								0.21	3.52	11.28	0.00	<--------- TOTALS

NET LOAD REDUCTION

BRANCH CIRCUIT LOAD SUMMARY

NOTE: ALL LOADS SHOWN ARE EXPRESSED IN KVA. ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS SHOWN ARE 20 AMP, 1 POLE.

PANEL VOLTAGE BRANCH	CIRCUIT #	EXISTING LOAD	REMOVED LOAD	ADDED LOAD	NEW LOAD	NEW LOAD (AMPS)
UPS1 277V 3.75KW	1	0.64	0.64	0.42	**0.42**	**1.52**
	2	1.05	1.05	0.36	**0.36**	**1.30**
	3	1.23	1.23	0.25	**0.25**	**0.90**
UPS2 277V 4.8KW	1	1.79	1.79	0.34	**0.34**	**1.23**
	2	1.80	1.80	0.51	**0.51**	**1.84**
	3	0.00	0.00	1.13	**1.13**	**4.08**

PANEL SCHEDULE NOTES

1. ALL CIRCUITS INDICATED "LIGHT" ON PANEL SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
2. ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR ADDED AS PART OF THIS PROJECT.
3. PROVIDE UPDATED 'TYPEWRITTEN' PANEL INDEX. PANEL INDEX SHALL INCLUDE DATE APPLIED AND ALSO WHERE THE PANEL IS FED FROM.
4. PROVIDE BLANK COVER PLATES OVER ANY EXPOSED CIRCUIT BREAKER SPACE THAT IS EXPOSED.
5. UPON OPENING EXISTING PANELS, TURN ANY CIRCUIT BREAKERS WITH NO CONDUCTORS OR NOT CONNECTED TO A LOAD INTO THE "OFF" POSITION AND UPDATE PANEL SCHEDULE.

PANEL SCHEDULE INDEX

-	14LB	14RC
-	14LC	14RK
-	14LD	-

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03/11/2026

BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

PANEL SCHEDULES

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

E4.2

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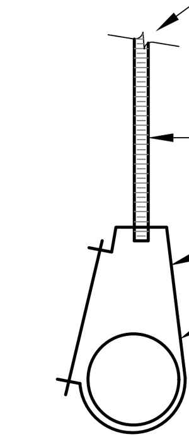
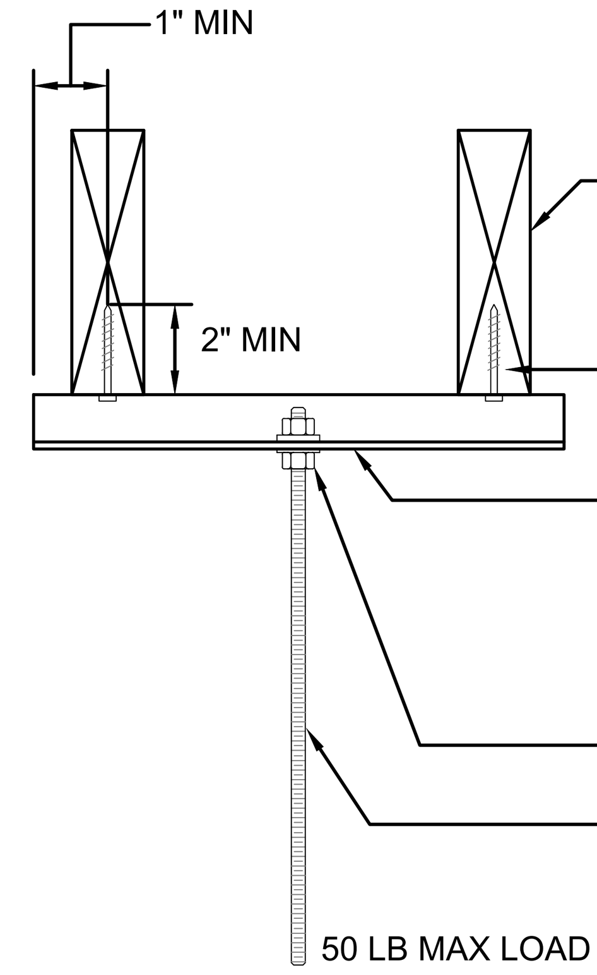


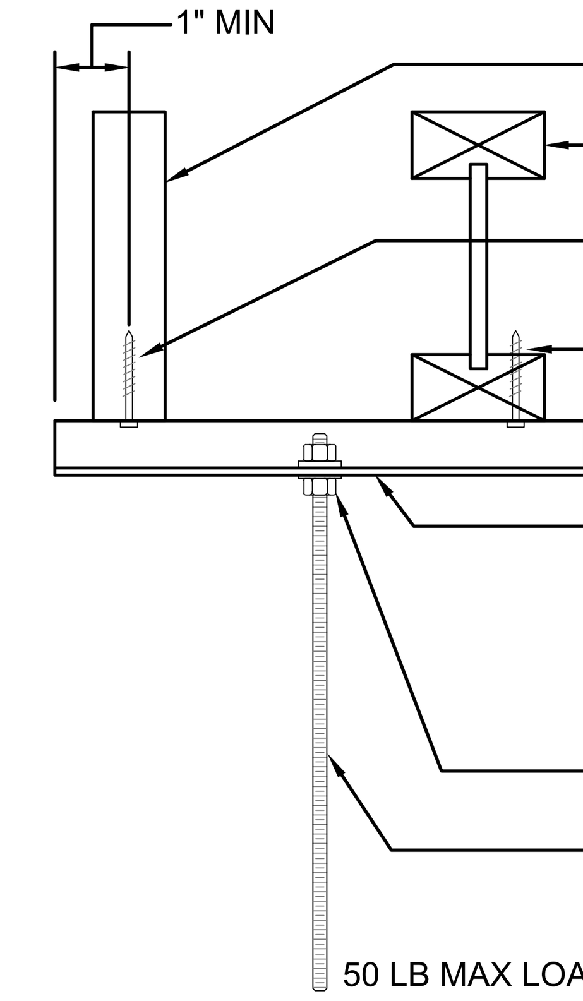
ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	COMBINED WEIGHT (LBS/LINEAL FOOT)
3/4"	0.84
1"	1.30
1-1/4"	2.12
1-1/2"	2.70
2"	4.02

NOTES:
1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS. DO NOT EXCEED 3 FEET BETWEEN EACH RACEWAY TERMINATION AND MAXIMUM OF 10 FEET BETWEEN SUPPORTS.
2. PLACEMENT OF HANGER SHALL NOT OBSTRUCT THE REMOVAL AND/OR INSTALLATION OF CEILING MATERIALS WHETHER FOR CONSTRUCTION OR MAINTENANCE.

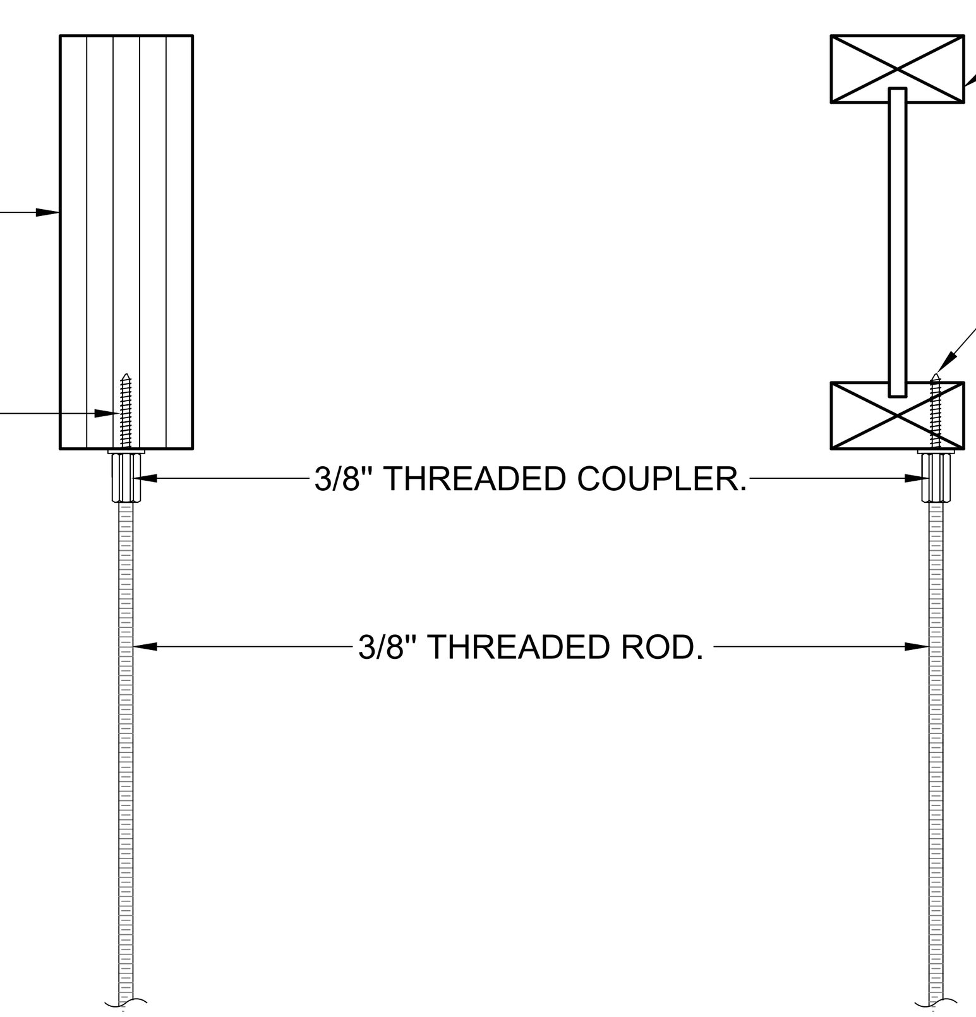
1 CONDUIT SUPPORT DETAIL
SCALE: NONE



4 THREADED ROD TO WOOD STRUCTURE DETAIL #1
SCALE: NONE

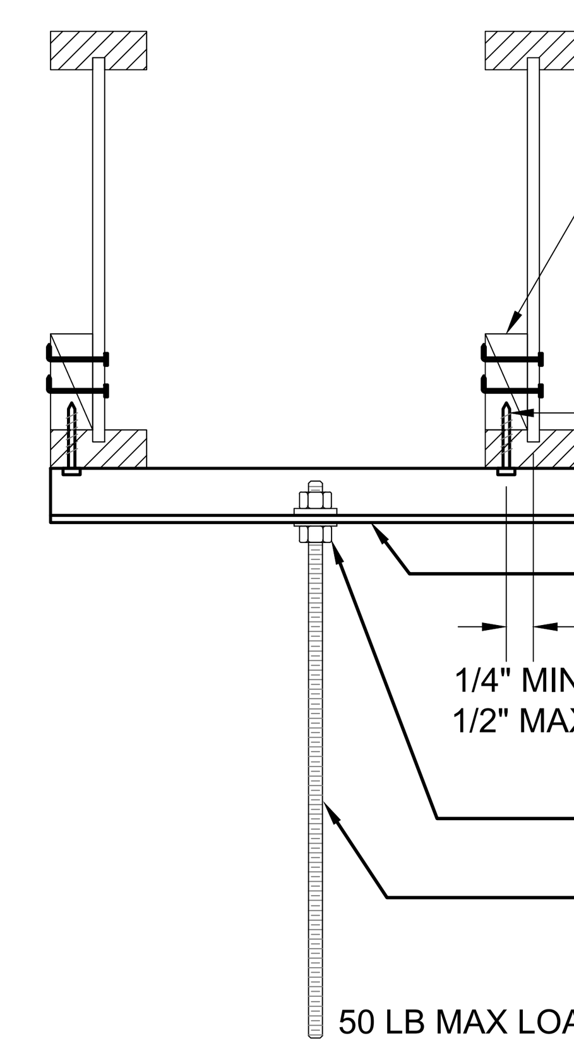


2 THREADED ROD TO WOOD STRUCTURE DETAIL #2
SCALE: NONE



NOTES:
1. REFER TO MODULAR BUILDING MANUFACTURER'S DRAWINGS FOR J-HOOK/ ROD ATTACHMENT TO METAL JOIST/RAFTER DETAILS.
2. 12" MINIMUM, HOWEVER, HOOK, ROD, ETC. SHALL NOT OBSTRUCT THE REMOVAL AND/OR INSTALLATION OF CEILING MATERIALS WHETHER FOR CONSTRUCTION OR MAINTENANCE.

5 THREADED ROD TO WOOD STRUCTURE DETAIL #4
SCALE: NONE



3 THREADED ROD TO WOOD STRUCTURE DETAIL #5
SCALE: NONE

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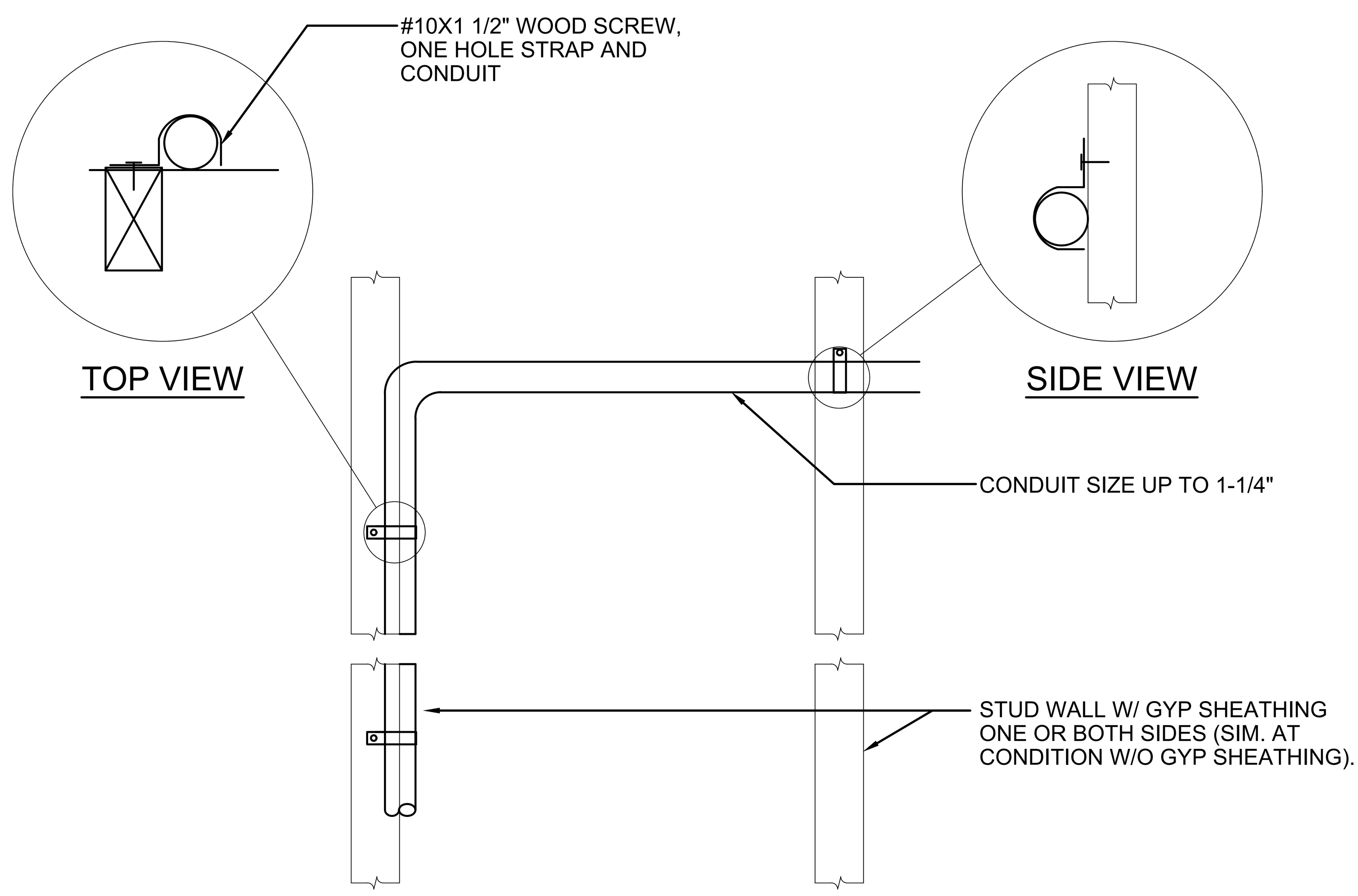
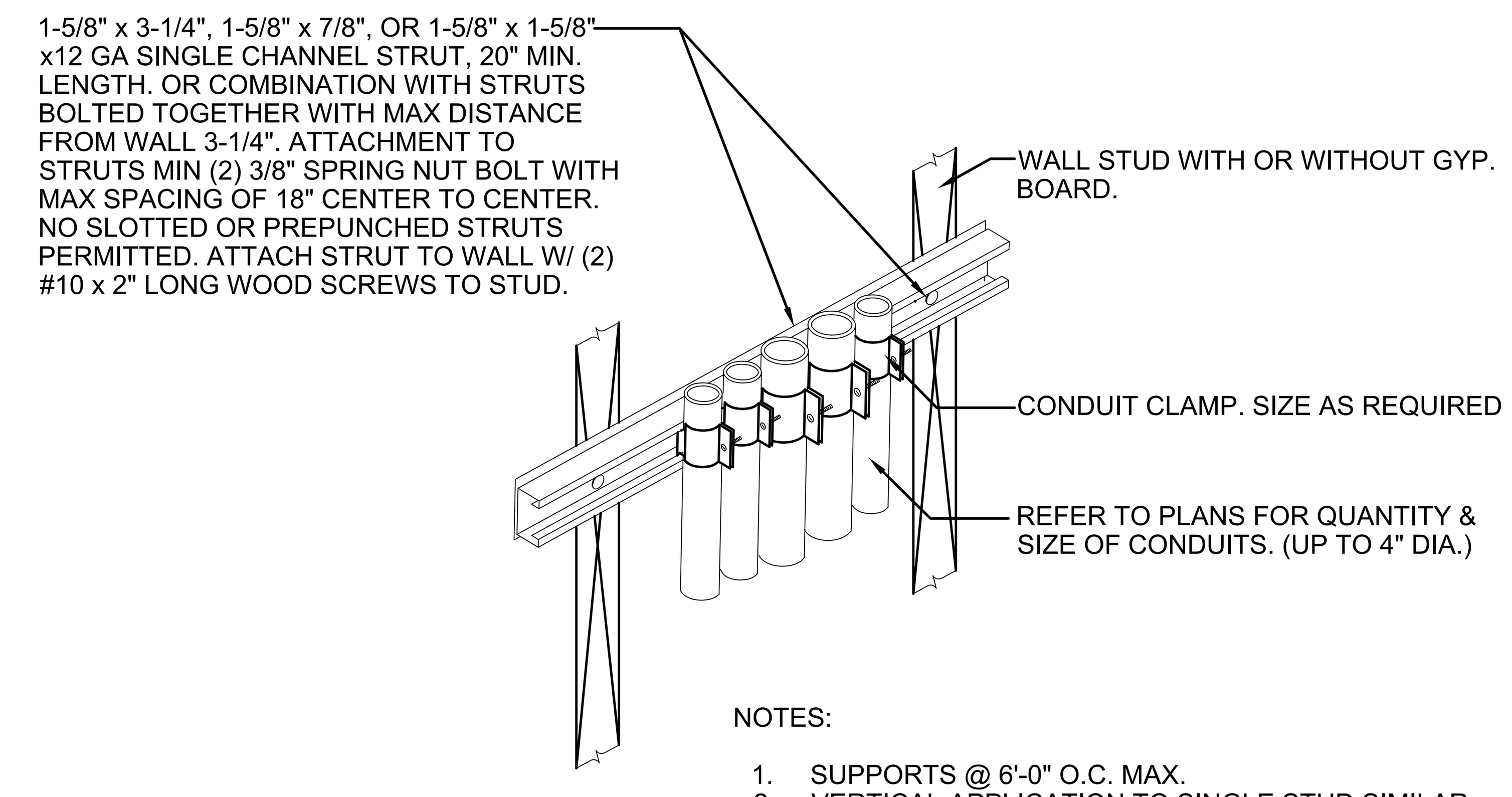


NOTES:

1. SUPPORTS AT 8'-0" O.C., MAX.

3 ONE HOLE STRAP CONDUIT DETAIL

SCALE: NONE

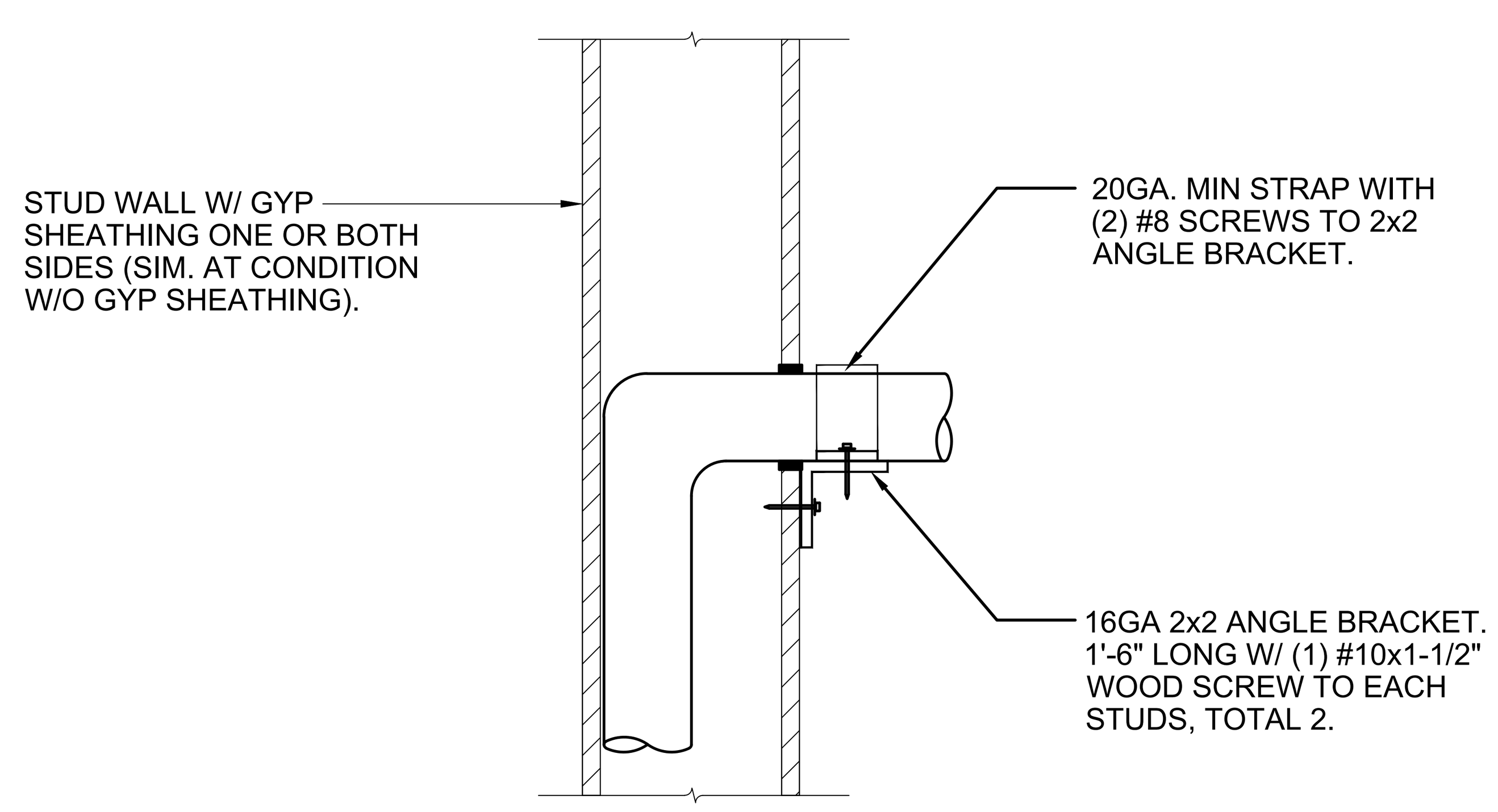


NOTES:

1. SUPPORTS @ 6'-0" O.C. MAX.
2. VERTICAL APPLICATION TO SINGLE STUD SIMILAR. STRUT TO BE 4" LONG MIN.

1 CONDUIT SUPPORT DETAIL

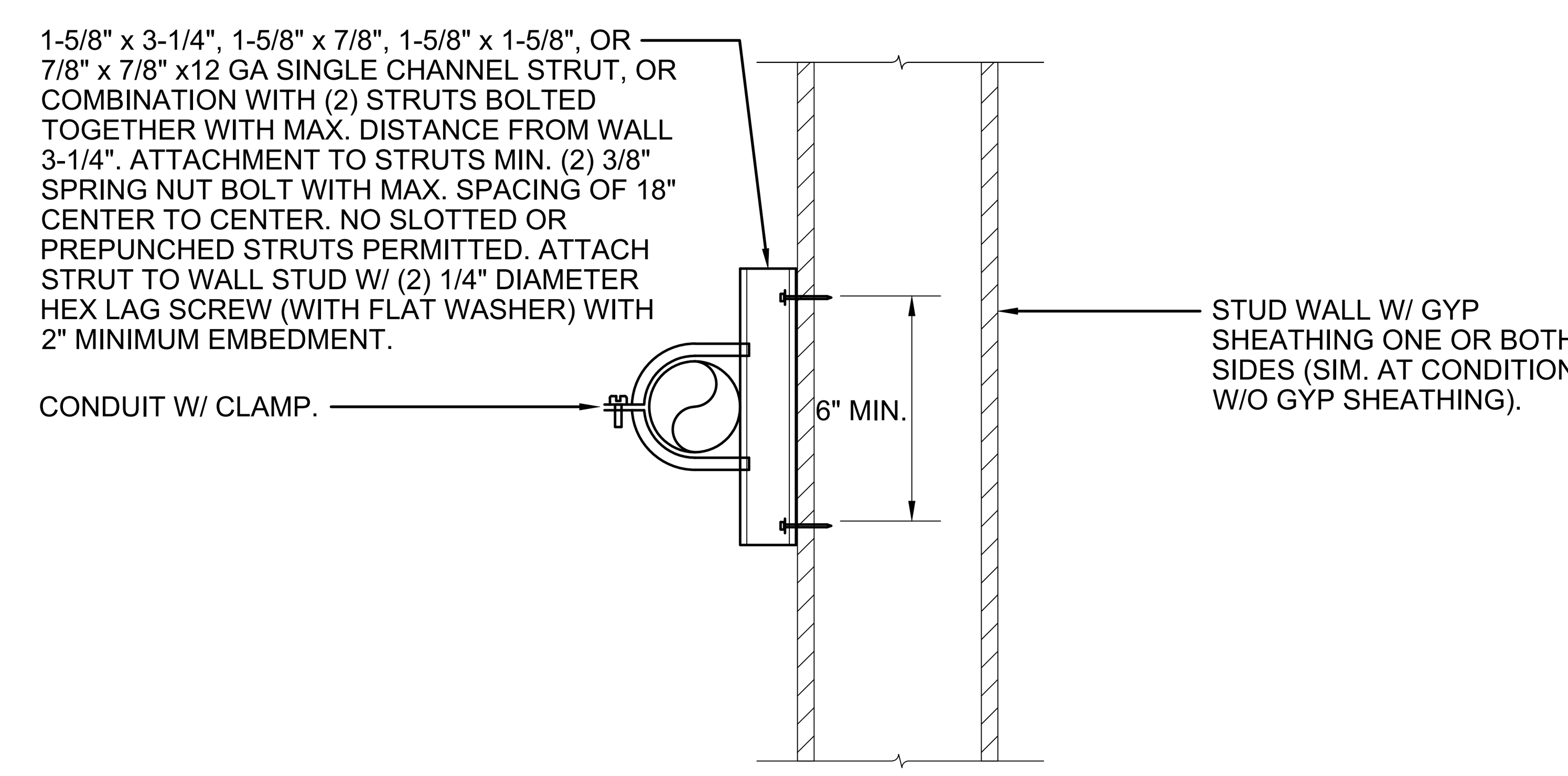
SCALE: NONE



SIDE VIEW

4 CONDUIT SUPPORT MEMBRANE PENETRATION DETAIL

SCALE: NONE



NOTES:

1. FOR 3/4" TO 2" CONDUIT, SUPPORTS @ 10'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 20LBS.
2. FOR 3" CONDUIT, SUPPORTS @ 6'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 50LBS.
3. FOR 4" CONDUIT, SUPPORTS @ 4'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 55LBS.

2 HORIZONTAL CONDUIT TO WALL DETAIL

SCALE: NONE

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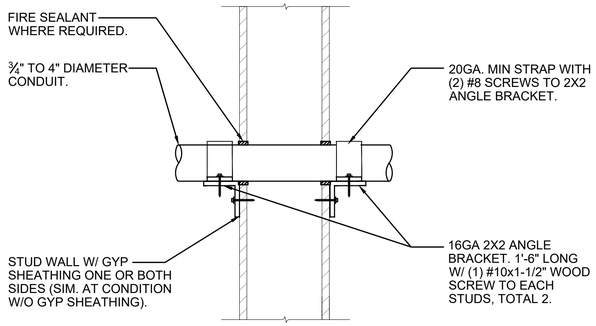
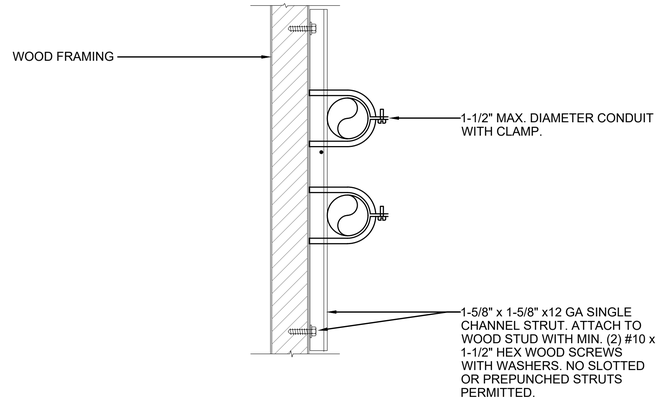


SIDE VIEW

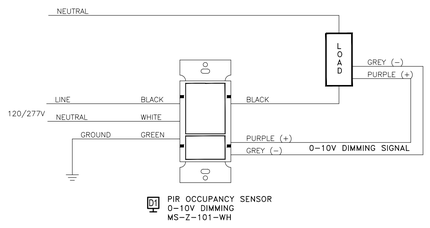
3 CONDUIT THRU WALL DETAIL
SCALE: NONE



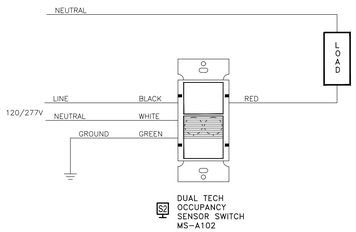
NOTES:

1. STRUT SUPPORTS SHALL BE LOCATED AT 10'-0" O.C., MAX.
2. MAXIMUM LOAD 5 LBS/FT.

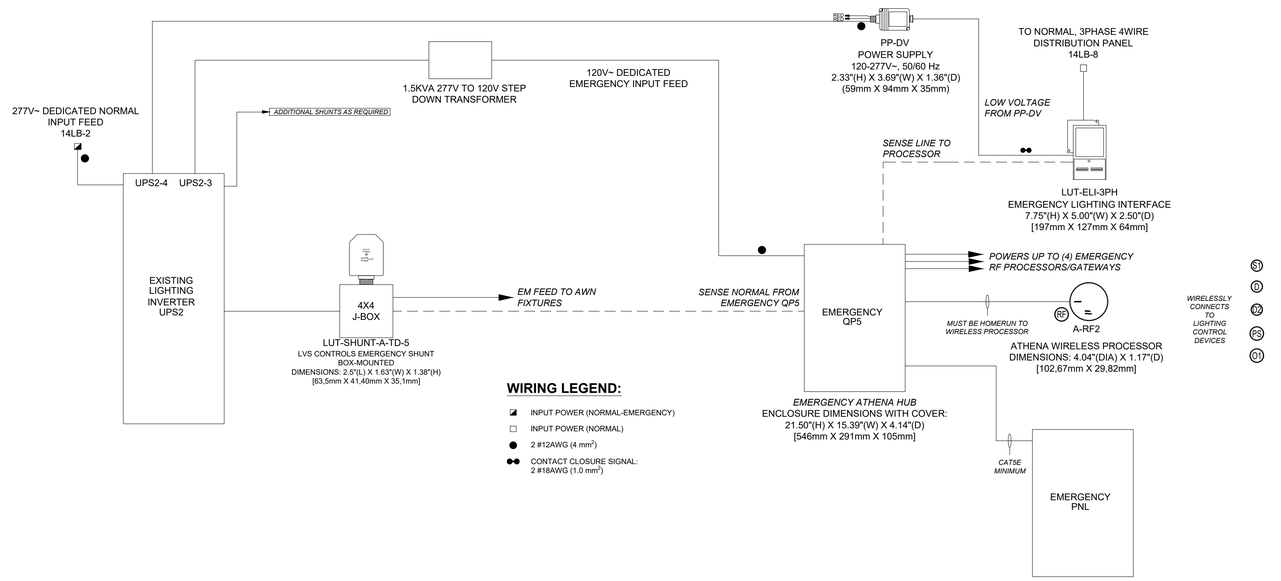
1 CONDUIT MOUNTING DETAIL
SCALE: NONE



4 LUTRON MAESTRO MS-Z-101
SCALE: NONE



5 LUTRON MAESTRO MS-A102
SCALE: NONE



2 LUTRON ATHENA WIRING DIAGRAM
NO SCALE

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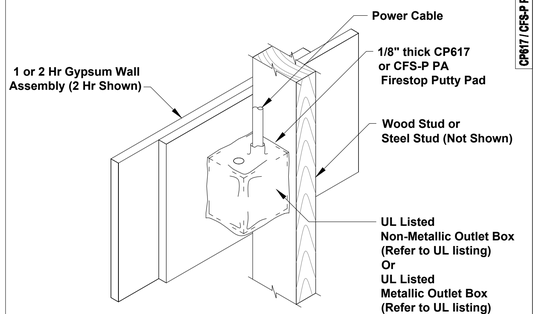
Wall Opening Protective Materials (CLIV, CLIV7)

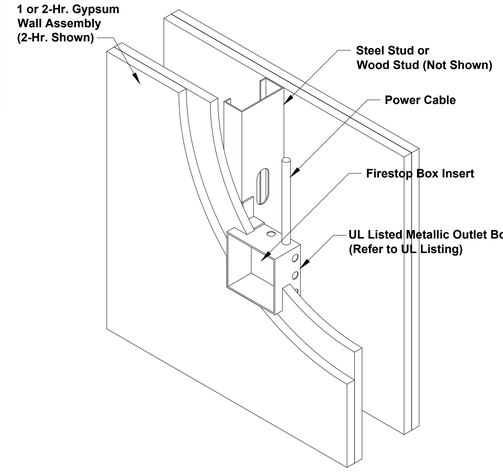
CP617 / CFS-P PA / FIRESTOP BOX INSERT

Classified by Underwriters Laboratories, Inc. to UL 263 and CAN/ULC-S115



Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT



Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates. Boxes may be installed back to back.

CP 617(-L, -XL) Firestop Putty Pads, for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Outlet boxes installed with plastic cover plates. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity.

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 in. by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. The boxes are installed back to back with 5 in. by 4 in. UL Classified fire block, CP 657 or CFS-BL Firestop Block installed in the cavity between the two boxes.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 14 by 4 by max 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep wood or steel studs for 2 hr fire rated walls and min 3-1/2 in. deep wood or steel studs for 1 hr fire rated walls. Walls constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Stud cavity insulation is required and shall consist of min 5-1/2 in. (2 hr rated walls) or min 3-1/2 in. (1 hr rated walls) thick fiberglass (min 0.8 pcf) or mineral fiber (min 4 pcf). Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the box.

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the outlet boxes. Metallic outlet boxes may be provided with steel attachment brackets which offset box min 1/4 in. from stud. When steel attachment brackets are used, putty pad to be affixed to the back and all four sides of the box.

CP 617(-L, -XL) or CFS-P PA Moldable Putty Pads, for use with max 4-11/16 by 4-11/16 in. by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CP 617(-L, -XL) or CFS-P PA Moldable Putty Pads, for use with max 4 by 4 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CP 617(-L, -XL) or CFS-P PA Moldable Putty Pads, for use with max 14-1/4 by 4-1/2 by 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

HILTI Firestop Box Insert, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

HILTI Firestop Box Insert, for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes are to be installed in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 3-11/16 x 3-3/4 in coverage.

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

HILTI Firestop Box Insert, for use with max 4 by 4 by 1-1/2 in. deep and 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. One 3-11/16 by 3-3/4 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 3-11/16 x 3-3/4 in coverage.

Box Size	Type of Box and Cover Plate	Hourly Rating	Wall Type
4 x 4 x 2-1/8 in deep	Metallic w/ steel cover plates	2-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 2-1/8 in deep	Metallic w/ plastic cover plates	1-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 1-1/2 in deep	Metallic w/ plastic cover plates	1-hour	U300 - wood studs

HILTI Firestop Box Insert, for use with max 2-1/8 x 4 x 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes may be installed with steel cover plates. One 1-7/8 x 2-13/16 insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

HILTI Firestop Box Insert, for use with max 4-1/2 x 8-1/2 in. by 1-5/8 in. deep or max 3-3/4 x 5-1/2 in. by 2-1/2 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 hr or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. Outlet boxes installed with steel cover plates. Box inserts evenly spaced and adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

Box Size	Inserts Used	Fire Rating	Wall Type
4-1/2 x 8-1/2 x 1-5/8 in deep	Two 3-11/16 x 3-3/4 in. inserts **	2-hour	U300, U400 or V400 - wood or steel studs
3-3/4 x 5-1/2 x 2-1/2 in deep	One 3-11/16 x 3-3/4 in. insert and one 1-7/8 x 2-13/16 in. insert	1-hour	U300, U400, or V400 - wood or steel studs
** - Min 3/4 in. deep plaster rings installed over outlet box. After installation of gypsum board, nom 1/4 in. thickness of Hilti FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, bearing the UL Classification Marking for Fill, Void or Cavity Materials, applied between the base layer of wallboard and the plaster ring.			

HILTI Firestop Box Insert , for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with plastic or steel cover plates.

HILTI Firestop Box Insert, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with steel cover plates.

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

CP 617(-L, -XL) or CFS-P PA Firestop Putty Pads and HILTI Firestop Box Inserts, for use with maximum 4 by 4 by 1-1/2 in. (102 by 102 by 38 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

Firestop Box Inserts, for use with max 2-1/8 by 4 by 2-1/8 in. deep. flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 h fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 47 mm wide by 71 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 94 mm wide by 95 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 4 by 4 by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood studs and with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 94 mm wide by 95 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with plastic cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with plastic or steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

Firestop Box Inserts, for use with 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 3-3/4 by 5-1/2 by 2-1/2 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel or wood studs and constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 94 mm wide by 95 mm high and one 47 mm wide by 71 mm high inserts adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the Fire Resistance Directory. One 111 mm wide by 111 mm high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 111 mm by 111 mm coverage and adhered to the interior back wall of the outlet box. Installation to comply with the National Electrical Code, (NFPA 70). Outlet boxes installed with steel cover plates. A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

Firestop Box Inserts, for use with max 4-11/16 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and plastic or steel cover plates in 1 h or 2 h fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 3-1/2 in. thick fiberglass (min 0.5 pcf) or mineral wool (min 4.0 pcf) batt insulation is to be installed within the wall cavity. One 4-3/8 by 4-3/8 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Installation to comply with the National Electrical Code (NFPA 70). A max 3/8 in. diam opening at one edge may be provided to permit access to the electrical box ground screw. When protective material is used within outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

HMR ARCHITECTS

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REGISTERED PROFESSIONAL ENGINEER — JASON PAR KEE YIP — No. E 18416 — ELECTRICAL — STATE OF CALIFORNIA

03/11/2026

LICENSED ARCHITECT — JASON PAR KEE YIP — No. 24706 — REN. 31/10/25 — STATE OF CALIFORNIA

EDGE ELECTRICAL ENGINEERING

Project Number M232
Contact LAI

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Sacramento, CA 95811
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Sacramento | Alameda | Irvine | Hawaii

BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

DETAILS

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO. 25072

E5.4

3/11/2026 8:46 AM JASON.YIP
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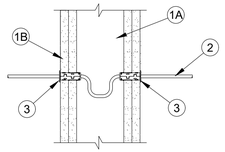
Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115

System No. W-L-3370

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)	FT Ratings - 1 and 2 Hr (See Item 1)
L Rating At Ambient - Less Than 1 CFM/device	FT Ratings - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/device	FTH Ratings - 1 and 2 Hr (See Item 1)
	L Rating At Ambient - Less Than 1 L/s/device
	L Rating At 204 C - Less Than 1 L/s/device



1. **Wall Assembly -** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* -** 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Designs in the UL Fire Resistance Directory.
   The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Cable -** One max 4 pair No. 22 AWG (or smaller) copper conductor data cable with plenum-rated or PVC insulation and jacket or two max 2/C No. 18 AWG (or smaller) stranded copper conductor cables with plenum-rated or PVC insulation and jacket. Cable(s) to be installed through 9/16 in. (14 mm) diam holes drilled through the gypsum board on both sides of wall.
3. **Firestop Device* -** Device consisting of plastic grommet halves with foam inserts. Plastic grommet device shall be installed around cable at it's egress from the gypsum board on each side of wall and inserted in wall opening in accordance with the accompanying installation instructions.

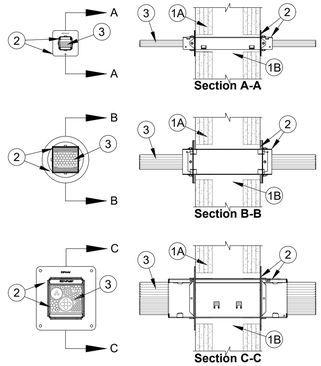
SPECIFIED TECHNOLOGIES INC - EZ Firestop Grommet RFG1

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115

System No. W-L-3377

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1, 2, 3 and 4 Hr (See Items 1 and 3)	F Ratings - 1, 2, 3 and 4 Hr (See Items 1 and 3)
T Rating - 3/4, 1, 1-1/2 and 2 Hr (See Item 3)	FT Rating - 3/4, 1, 1-1/2 and 2 Hr (See Item 3)
L Rating At Ambient - Less than 1 to 7 CFM/device Module (See Item 2)	FH Ratings - 1, 2, 3 and 4 Hr (See Items 1 and 3)
L Rating At Ambient - Less than 1 to 7 CFM/device Module (See Item 2)	FTH Rating - 3/4, 1, 1-1/2 and 2 Hr (See Item 3)
	L Rating At Ambient - Less than 1 to 7 CFM/Device Module (See Item 2)
	L Rating at 400 F - Less than 1 to 3 CFM/Device Module (See Item 2)



1. **Wall Assembly -** The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. **Studs -** Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* -** Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. See Table for opening sizes.
   The hourly F and FH Ratings are dependent upon the hourly rating of the wall in which it is installed.
2. **Firestop Device* -** Series 22 EZ Path device modules consist of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Series 33 EZ Path device modules consist of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Series 44+ EZ Path device modules consist of a 4 by 4-5/8 by 14 in. (102 by 118 by 356 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. Firestop device modules secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel screws provided with device. Firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. The annular space between the device and opening shall be min 0 in. (point contact) to max 1/8 in. (3 mm) for Series 22 device, max 1/2 in. (13 mm) for Series 33 device and max 1/4 in. (6 mm) for Series 44 device. The opening size and L Ratings for each device vary according to whether device module is blank (no cables) or loaded (with cables) and which cable type and size is used, as tabulated below:

SPECIFIED TECHNOLOGIES INC - EZ PATH Series 22, 33 or 44+ Fire Rated Pathway

Device	Max Cable Fill	Cable Type	L-Rating (CFM)		Opening Size Diam or Dimensions, in. (mm)
			Ambient	400° F	
Series 22	0%	-	1.4	1.4	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	1-25%	3A	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	26-50%	3A	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	51-75%	3A	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	76-100%	3A	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	100%	3F	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 33	0%	-	Less Than 1	Less Than 1	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3A	4	3	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3F	1.3	Less Than 1	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3G, 3H	7	2	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3I	1.8	1.8	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 44+	0%	-	Less Than 1	Less Than 1	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44+	1-25%	3A-3I	1.5	1.5	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44+	26-50%	3A-3I	2.3	2.3	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44+	51-75%	3A-3I	2.3	2.3	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44+	76%-100%	3A-3I	2.3	2.3	6 (152) or 4-1/8 x 4-3/4 (120 x 120)

2A. **Firestop Device* - Extension Module -** (Optional, Not Shown) - Module attached to ends of Series 33, Series 44+ firestop device (Item 2) to increase its length to facilitate installation in thicker walls. Each module consists of a galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 or Series 44+ Extension

3. **Cables -** Cables may represent a 0 to max 100 percent visual fill within the loading area for the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
   B. Max 750 kcmil single copper conductor power cable with XLPE jacket and insulation
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 2/0 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max diam of 5/8 in. (16 mm).
   H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).
   I. Max RG6/U coaxial cable with fluorinated ethylene, polyethylene (PE), PVC or plenum rated jacketing and insulation.

When Series 22 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr except that for Items 3F, 3G and 3H, the T, FT and FTH Ratings are 1 hr. When the hourly fire rating of the wall assembly is 2 hr or greater, the T, FT and FTH Ratings are 3/4 hr when cables are installed. When no cables are installed within the device module, the T, FT and FTH Ratings are 1 hr in 1 hr walls and 1-1/2 hr for 2, 3 and 4 hr walls. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr. When max 200 pair No. 24 AWG telecommunication cable and/or 350 kcmil power cable is used or when Item 3F, 3G, 3H or 3I is used, the maximum F and FH Ratings are 4 hr.

When Series 33 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr. When the hourly fire rating of the wall assembly is greater than 1 hr, the T, FT and FTH Ratings are 3/4 hr when Item 3A, 3B, 3C, 3D or 3E is used. Otherwise the T, FT and FTH Ratings are 1 hr. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G, 3H or 3I is used, the maximum F and FH Ratings are 4 hr.

When Series 44 + EZ Path device modules are used and when Item 3A, 3B, 3C, 3D or 3E is used, the max F and FH Ratings are 3 hr and the T, FT and FTH Ratings are 1 hr. When Item 3F or 3G is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1-1/2 hr. When Item 3H or 3I is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 2 hr. When device empty, the T, FT and FTH Ratings are 1-1/2 Hr.

+Bearing the UL Listing Mark

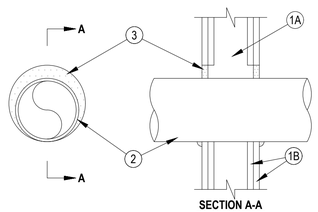
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 0, 1 and 2 Hr (See Items 1, 2 and 3)
T Rating — 0 and 1/2 Hr (See Item 2)	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —0, 1 and 2 Hr (See Items 1, 2 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2

WL 1054



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating and items 2F and 2G, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

WL 1054

System No. W-L-1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space for items 2A to 2E shall be min 0 in. to max 2-1/4 in. (57 mm). These pipes/tubings may be installed with continuous point contact. The annular space for items 2F and 2G shall be min 0 in. to max 1-1/2 in. (38 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
   F. Aluminum Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 5 (or heavier) aluminum pipe for use in closed (process or supply) piping systems.
   G. Aluminum Conduit — Nom 2 in. (51 mm) diam (or smaller) aluminum electric metallic tubing (EMT) or rigid aluminum conduit for use in closed (process or supply) piping systems.

The hourly T Ratings of the firestop system are equal to 0 Hr when items 2A to 2E are used and equal to 1/2 Hr when items 2F and 2G are used. The hourly CAN F and FH Ratings are equal to 0 Hr when items 2F and 2G are used.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant
   The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Rigid steel conduit

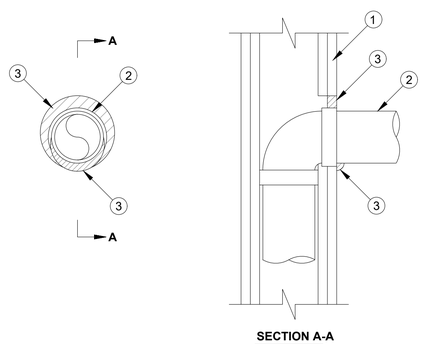
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. W-L-1410

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m²
	L Rating at 204°C — Less Than 5.1 L/s/m²

WL 1410



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. The max diam of opening is dependent upon the type of fill material as shown in Item 3.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space is dependent upon the type of fill material as shown in Item 3. Pipe or conduit to be rigidly supported on the penetrated side of the wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Conduit — Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
   C. Copper Tubing — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.
   E. Iron Pipe — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.
3. Fill, Void or Cavity Material*— Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location.

Type of Fill Material	Max Diameter of Opening, in. (mm)	Min Annular Space, in. (mm)	Max Annular Space, in. (mm)
FS-ONE MAX Intumescent Sealant	6 (152)	0 (0), point contact	2 (51)
CFS-S-SIL GG Sealant	5 (127)	0 (0), point contact	1 (25)
CP601S Elastomeric Sealant	5 (127)	0 (0), point contact	1 (25)
CP 606 Sealant	5 (127)	0 (0), point contact	1 (25)
CP618 Putty	5 (127)	0 (0), point contact	1 (25)

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant, CFS-S-SIL GG Sealant, CP601S Elastomeric Sealant, CP 606 Sealant,or CP618 Putty.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

WL 1410

System No. W-L-1410

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
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LICENSED ARCHITECT — JASON PAK KEE VIP — No. E 18476 — ELECTRICAL — STATE OF CALIFORNIA
03/11/2026

LICENSED ARCHITECT — REGISTERED PROFESSIONAL ENGINEER — No. 24706 — REN. 12/31/25 — STATE OF CALIFORNIA

EDGE MEP/STRUCTURAL ENGINEERING
Project Number M232
Contact LAI
400 R Street, Ste 333
Sacramento, CA 95811
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Sacramento | Alameda | Irvine | Hawaii

BUILDING 1400 LIGHTING UPGRADES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

REVISIONS

NO.	DESCRIPTION	DATE

DETAILS

FEBRUARY 20, 2026

DRAWN BY: ROYA AND JASON
CHECKED BY: LAI
JOB NO: 25072

E5.5

3/11/2026 8:46 AM JASON.VIP
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