

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
A	AMPERES, AMPER
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CLG	CEILING
COORD	COORDINATE
CU	COPPER
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EL	ELEVATION
FT	FOOT, FEET
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HT	HEIGHT
IN	INCH, INCHES
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MIN	MINIMUM
MT, MTD	MOUNT, MOUNTED
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
OC	ON CENTER
REQD	REQUIRED
RM	ROOM
S	SWITCH
SHT	SHEET
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W	WITH
W/O	WITHOUT

Connections / Equipment

	OR	JUNCTION BOX
		WALL-MOUNTED JUNCTION BOX

General

	DEMOLISH
	EXISTING WORK
	NEW WORK
	DETAIL NUMBER AND SHEET LOCATION
	KEYED NOTE

Miscellaneous

	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	FLUSH WALL MOUNTED BRANCH PANEL
	GROUNDING POINT

Raceways

	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
	CONDUIT/WIRING CONTINUATION
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING

Switches and Receptacles

	SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
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GENERAL ELECTRICAL NOTES

- A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
- B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.
- C. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS, NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.
- D. COORDINATE THE EXACT LOCATION OF EXISTING UTILITIES AND EQUIPMENT PRIOR TO COMMENCEMENT OF WORK. COMPENSATE THE OWNER FOR DAMAGES CAUSED BY THE FAILURE TO LOCATE AND PRESERVE UTILITIES. REPLACE DAMAGED ITEMS WITH NEW MATERIAL TO MATCH EXISTING.
- E. REMOVE EXISTING LUMINAIRES, SWITCHES, RECEPTACLES, AND OTHER ELECTRICAL EQUIPMENT AND DEVICES AND ASSOCIATED WIRING FROM WALLS, CEILINGS, FLOORS, AND OTHER SURFACES SCHEDULED FOR REMODELING, RELOCATION, OR DEMOLITION UNLESS SHOWN AS RETAINED OR RELOCATED ON DRAWINGS.
- F. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEMS. REMOVE OR RELOCATE ELECTRICAL BOXES, CONDUIT, WIRING, EQUIPMENT, LUMINAIRES, AND THE LIKE, AS REQUIRED IN REMOVED OR REMODELED AREAS IN THE EXISTING CONSTRUCTION AFFECTED BY THIS WORK.
- G. REMOVE AND RESTORE WIRING WHICH SERVES USABLE EXISTING OUTLETS CLEAR OF THE CONSTRUCTION OR DEMOLITION.
- H. IF EXISTING JUNCTION BOXES WILL BE MADE INACCESSIBLE, OR IF ABANDONED OUTLETS SERVE AS FEED THROUGH BOXES FOR OTHER EXISTING ELECTRICAL EQUIPMENT WHICH IS BEING RETAINED, PROVIDE NEW CONDUIT AND WIRE TO BYPASS THE ABANDONED OUTLETS.
- I. IF EXISTING CONDUITS PASS THROUGH PARTITIONS OR CEILING WHICH ARE BEING REMOVED OR REMODELED, PROVIDE NEW CONDUIT AND WIRE TO REROUTE CLEAR OF THE CONSTRUCTION OR DEMOLITION AND MAINTAIN SERVICE TO THE EXISTING LOAD.
- J. CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE ABANDONED IN PLACE, REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT. CUT AND CAP ABANDONED CONDUIT. DO NOT EXTEND STUBS ABOVE FINISHED FLOOR.
- K. EXTEND CIRCUITING AND DEVICES IN EXISTING WALLS TO BE FURRED OUT.
- L. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.
- M. VERIFY EXACT LOCATION AND NUMBER OF EXISTING ELECTRICAL OUTLETS AND LUMINAIRES IN THE FIELD. LOCATIONS OF ITEMS SHOWN ON DRAWINGS AS EXISTING ARE PARTIALLY BASED ON RECORD AND OTHER DRAWINGS WHICH MAY CONTAIN ERRORS. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.
- N. REMOVE ABANDONED WIRING TO LEAVE SITE CLEAN.
- O. EXISTING LIGHTING WHICH IS TO REMAIN OR BE RELOCATED IS TO BE RELAMPED, REBALLASTED, AND CLEANED. LEAVE ALL LUMINAIRES IN PROPER WORKING ORDER. REPLACE DAMAGED OR BROKEN LENS AND/OR COMPONENTS.
- P. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- Q. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.
- R. PROVIDE UPDATED PANEL SCHEDULES AND DIRECTORIES THAT IDENTIFY EXISTING CIRCUITS AND NUMBER OF SPARE CIRCUITS AVAILABLE UPON COMPLETION OF DEMOLITION WORK.
- S. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.
- T. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.
- U. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- V. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.
- W. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.
- X. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.
- Y. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.
- Z. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.
- AA. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.
- AB. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.
- AC. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.
- AD. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.
- AE. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.

SHEET INDEX

E0.1	SYMBOL LIST AND GENERAL NOTES - ELECTRICAL
E2.1	FLOOR PLAN - LIGHTING
E2.2	LIGHTING CONTROL FLOOR PLANS



Date Signed: 9/12/14

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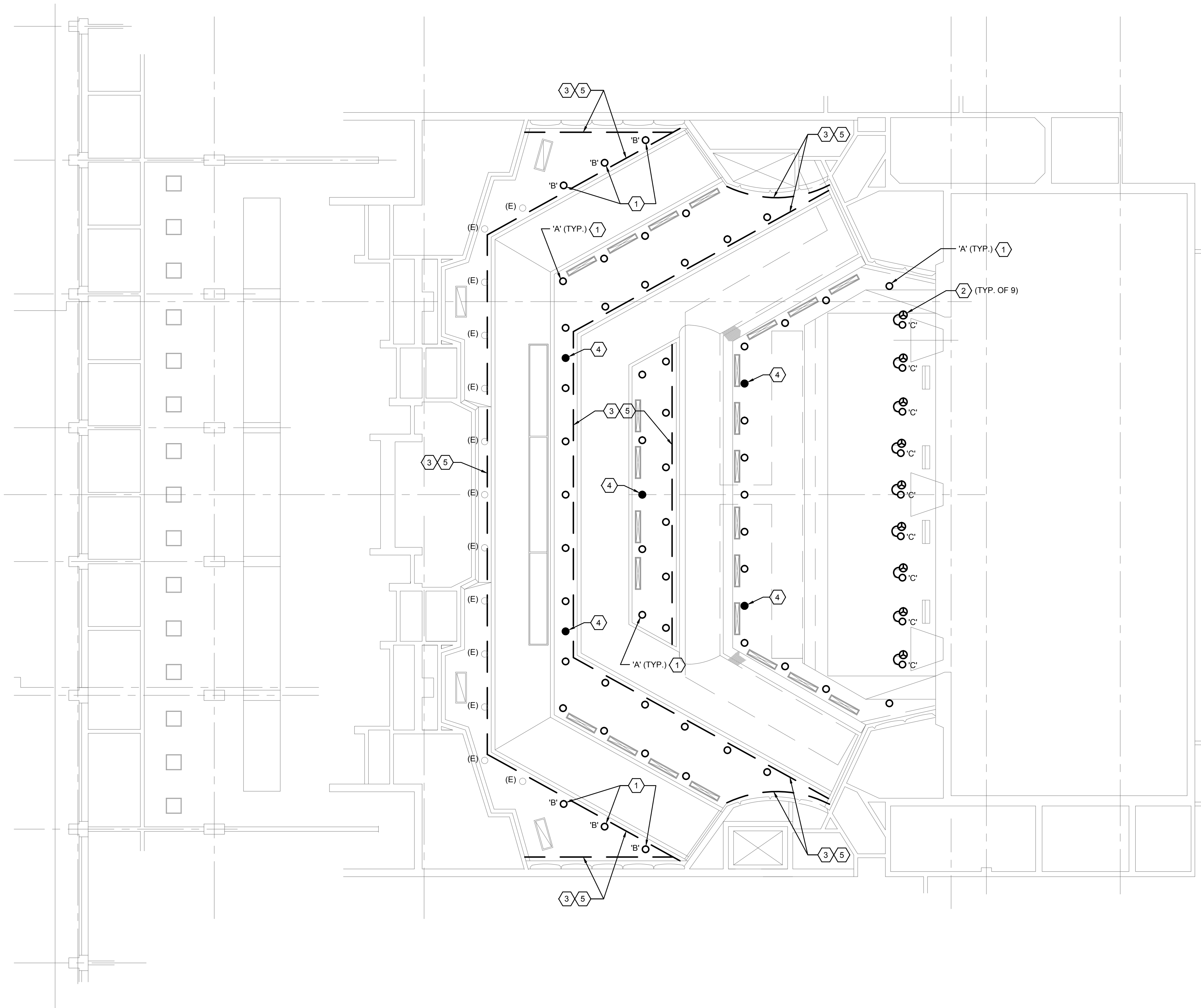
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
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THEATER HOUSE LIGHTING RETROFIT
CAÑADA COLLEGE - BUILDING 3
4200 FARM HILL BOULEVARD, REDWOOD CITY, CA 94061

REVISIONS

SHEET TITLE
THEATER HOUSE
LIGHTING RETROFIT
SYMBOL LIST AND
GENERAL NOTES
- ELECTRICAL

SCALE: NO SCALE
DATE: Sept. 16, 2014

E0.1



1 FLOOR PLAN - LIGHTING
 0 4' 8' 16'
 SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH THEATRICAL LIGHTING CONSULTANT PRIOR TO INSTALLATION.
- B. REFER TO THEATRICAL LIGHTING CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION AND LIGHTING CONTROL/CABLING REQUIREMENTS.
- C. REFER TO THEATRICAL LIGHTING CONSULTANT DRAWINGS FOR LUMINAIRE SCHEDULE AND SYMBOLS.
- D. EXISTING LUMINAIRES AND LIGHTING CONTROLS NOT SHOWN ON PLAN SHALL REMAIN, U.O.N.
- E. PROVIDE DMX JUMPERS TO DAISY CHAIN DMX SIGNAL FROM LUMINAIRES TO LUMINAIRES FOR LUMINAIRE TYPE 'A', 'B', & 'D'.

SHEET KEYNOTES

- 1 DISCONNECT AND REUSE EXISTING LIGHTING CIRCUIT AS PART OF LED LUMINAIRE REPLACEMENT. LUMINAIRES TO BE RECONNECTED BACK TO EXISTING DIMMER RACK.
- 2 DISCONNECT AND REMOVE EXISTING LUMINAIRES AND PROVIDE NEMA L5-20R RECEPTACLE FOR CONNECTION TO NEW REPLACEMENT TYPE 'C' LUMINAIRES. REUSE EXISTING JUNCTION BOX AND CIRCUIT FOR NEW RECEPTACLE.
- 3 RELAMP/REPAIR EXISTING FLUORESCENT LUMINAIRES TO REMAIN.
- 4 REPLACE EXISTING INCANDESCENT LAMP WITH LED RETROFIT LAMP IN EXISTING DOWNLIGHT. (TYPICAL OF 5 EMERGENCY LUMINAIRES)
- 5 **ADD ALTERNATE:** DISCONNECT AND REMOVE EXISTING FLUORESCENT LUMINAIRES WITH NEW TYPE 'D' LUMINAIRES. RECONNECT COMPLETE TO EXISTING LIGHTING CIRCUIT AS REQUIRED TO PLACE BACK INTO SERVICE.

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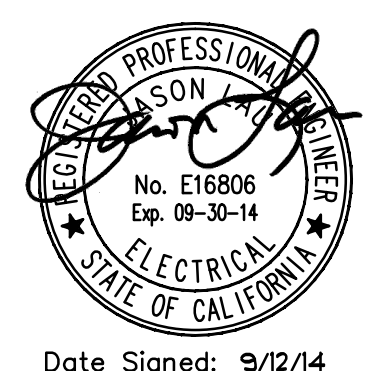
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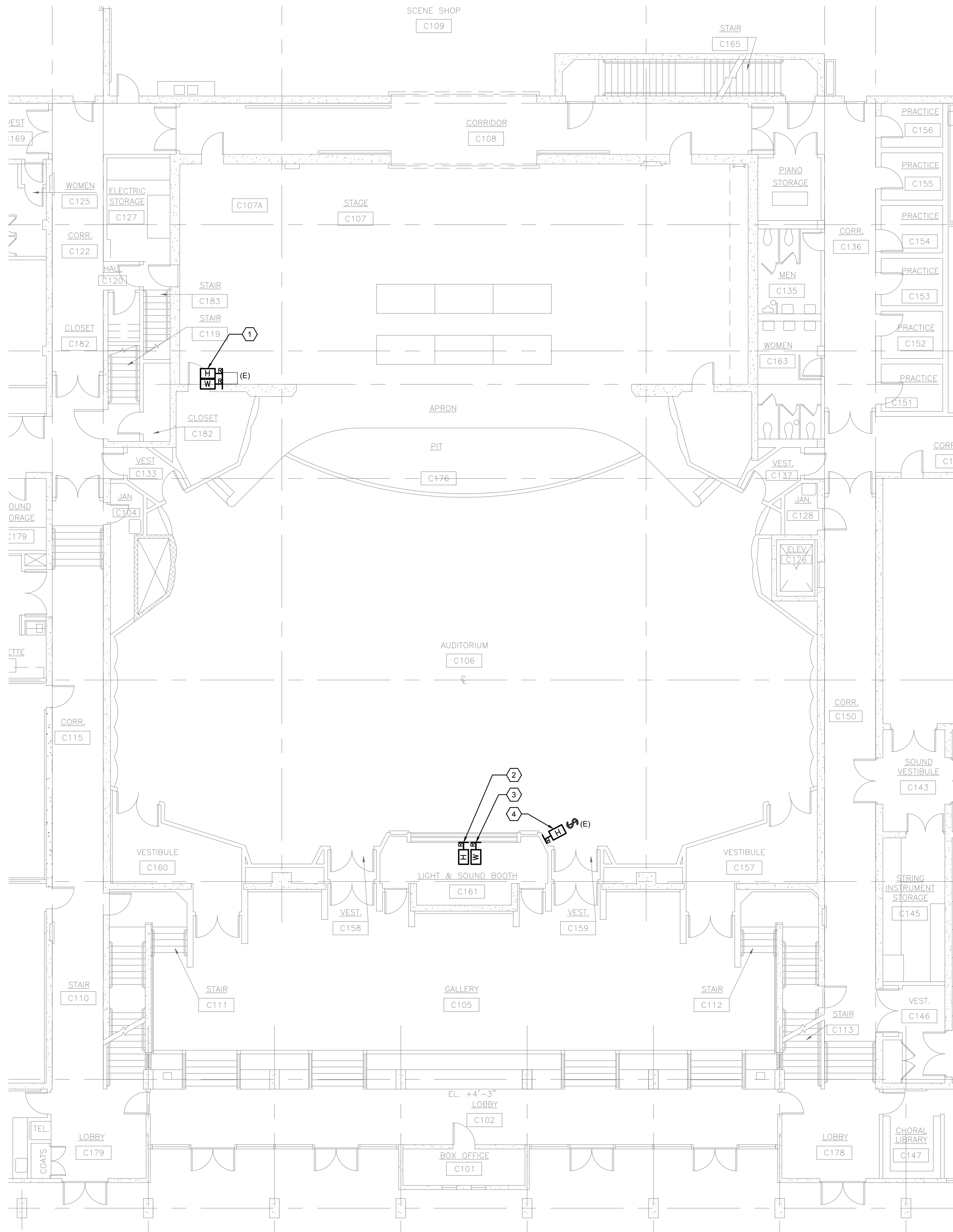
SHEET TITLE:
**THEATER HOUSE
 LIGHTING RETROFIT
 FLOOR PLAN -
 LIGHTING**

SCALE: 1/8" = 1'-0"
 DATE: Sept. 16, 2014

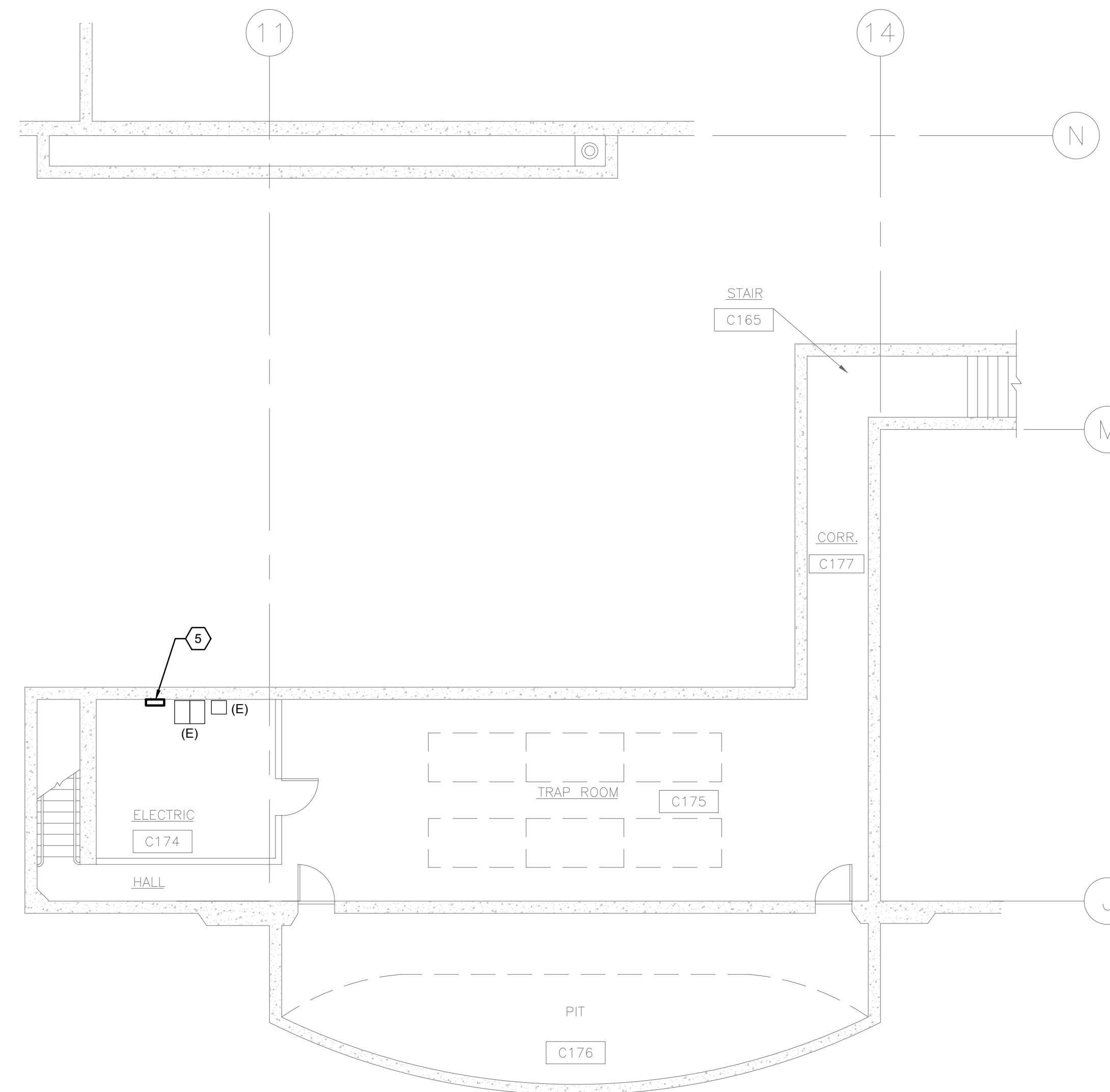
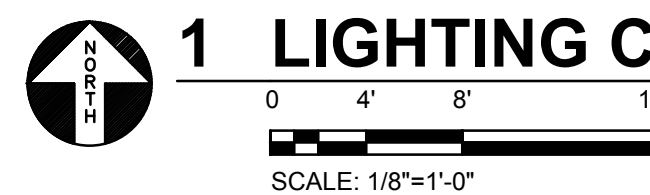


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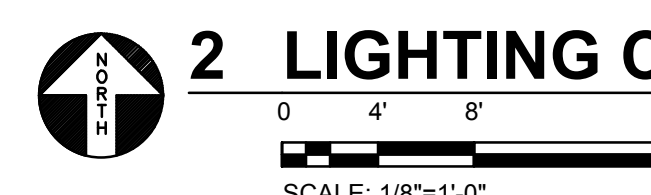
E2.1



1 LIGHTING CONTROL PLAN - MAIN LEVEL



2 LIGHTING CONTROL PLAN - ELECTRICAL ROOM



GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING CONTROLS WITH THEATRICAL LIGHTING CONSULTANT PRIOR TO INSTALLATION.
- B. REFER TO THEATRICAL LIGHTING CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION AND LIGHTING CONTROL/CABLING REQUIREMENTS.

SHEET KEYNOTES

- 1. DISCONNECT AND REMOVE EXISTING RACK-MOUNTED HOUSE LIGHT CONTROL STATION AND WORKLIGHT CONTROL STATION AND REPLACE WITH NEW STAGE MANAGER'S PANEL WORKLIGHT/HOUSE LIGHT CONTROL PANEL. RECONNECT COMPLETE BACK TO EXISTING CIRCUIT TO PLACE BACK INTO SERVICE.
- 2. DISCONNECT AND REMOVE EXISTING HOUSE LIGHT SLIDER CONTROL STATION AND REPLACE WITH NEW HOUSE LIGHT MASTER STATION 'HLM'. PROVIDE NEW SURFACE BACK BOX AS REQUIRED. RECONNECT COMPLETE BACK TO EXISTING CIRCUIT TO PLACE BACK INTO SERVICE.
- 3. DISCONNECT AND REMOVE EXISTING WORK LIGHT CONTROL STATION AND REPLACE WITH NEW WORKLIGHT CONTROL STATION 'WL'. REUSE EXISTING BACK BOX. RECONNECT COMPLETE BACK TO EXISTING CIRCUIT TO PLACE BACK INTO SERVICE.
- 4. DISCONNECT AND REMOVE EXISTING HOUSE LIGHT CONTROL STATION AND REPLACE WITH NEW HOUSE LIGHT CONTROL STATION 'HL'. REUSE EXISTING BACK BOX AND LOCKING COVER. RECONNECT COMPLETE BACK TO EXISTING CIRCUIT TO PLACE BACK INTO SERVICE.
- 5. DISCONNECT AND REMOVE EXISTING ETC UNISON ER-4 EXTERNAL PROCESSING RACK AND REPLACE WITH NEW ETC UNISON ER2 EXTERNAL PROCESSING RACK WITH 4-PORT NETWORK SWITCH. RECONNECT COMPLETE BACK TO EXISTING CIRCUIT TO PLACE BACK INTO SERVICE.

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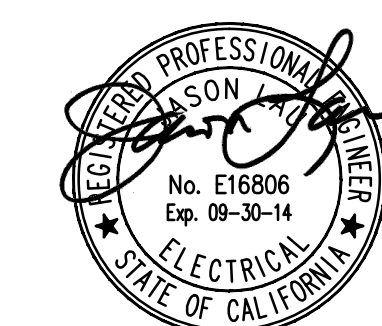
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LIGHTING RETROFIT
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E2.2