

**ELECTRICAL NOTES**

- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SERVICE, HOISTING, SUPPORT, TOOLS, TRANSPORTATION, AND SUPERVISION FOR ALL WORK INDICATED AND SPECIFIED.
- PROVIDE ALL MATERIAL AND EQUIPMENT AND MAKE THE FINAL CONNECTIONS TO ALL EQUIPMENT, APPLIANCES, AND SYSTEMS FURNITURE WHERE REQUIRED.
- PROVIDE SEISMIC RESTRAINTS FOR ALL EQUIPMENT, INCLUDING ALL STRUCTURAL STEEL MEMBERS, INSERTS, ANCHORS AND SUPPORT WIRES AND THE REQUIRED ASSEMBLY THEREOF. ALL SEISMIC RESTRAINTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ALL CODES AND ORDINANCES HAVING JURISDICTION.
- CAREFULLY CHECK THE DOCUMENTS OF OTHER DIVISIONS TO ASCERTAIN THE REQUIREMENTS OF ANY EQUIPMENT BEING FURNISHED AND/OR INSTALLED BY THAT DIVISION AND PROVIDE THE PROPER, SUPPORT MATERIAL, INSTALLATION, AND CONNECTIONS.
- REFER TO ARCHITECTURAL DIVISION FOR EXACT QUANTITIES, SPECIFICATIONS AND LOCATIONS OF ALL LIGHTING FIXTURES, OUTLETS, SWITCHES AND OUTLET BOXES OF ANY KIND, INCLUDING MOUNTING HEIGHTS.
- ALL WORK SHALL BE DONE IN FULL COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL CODES AND ORDINANCES HAVING JURISDICTION.
- ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITER'S LABORATORIES, INC., MANUFACTURED IN FULL ACCORDANCE WITH SAME, NEMA, ANSI OR IEEE STANDARDS.
- DURING CONSTRUCTION, KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK AS SHOWN ON DRAWINGS AND THAT WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF PRINTS SHALL BE KEPT AT JOB SITE FOR INSPECTION BY THE ENGINEER. UPON COMPLETION OF THE INSTALLATION, OBTAIN FROM THE CONSULTING ENGINEERS A COMPLETE SET OF ORIGINAL DRAWINGS ON DIGITAL MEDIA OR BY ELECTRONIC TRANSFER ENTER THEREON, IN A NEAT AND ACCURATE MANNER, USING THE SAME CONVENTION AS THE ORIGINAL, THE DRAWINGS MODIFIED WITH ALL REVISIONS AS ACTUALLY INSTALLED, AND DELIVER THEM ON CD ROM ALONG WITH COPIES AS SPECIFIED BY THE ARCHITECT. THE COST FOR MAKING REQUIRED CHANGES, MEDIA DEVICES AND PRINTING CHARGES SHALL BE BORNE BY THIS DIVISION.
- ALL EQUIPMENT LOCATED OUTDOORS AND IN WET LOCATIONS SHALL BE WEATHERPROOF.
- ALL WORK SHALL BE PHASED IN A SCHEDULE TO COINCIDE WITH THE APPROVED CONSTRUCTION SCHEDULE.
- ALL LIGHTING WORK SHALL BE DONE IN COMPLIANCE WITH THE STANDARDS AND REGULATIONS OF THE CALIFORNIA ENERGY COMMISSION.
- ALL LAMPS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL ONE OR THREE LAMP FLUORESCENT FIXTURES SHALL BE TANDEM WIRED WITH TWO LAMP BALLAST WHERE REQUIRED.
- SUBMIT SHOP DRAWINGS FOR LIGHTING FIXTURES TO ENGINEER AND RECEIVE WRITTEN APPROVAL BEFORE ORDERING.
- ALL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LINE TERMINALS OF THAT EQUIPMENT BUT NOT LESS THAN THE RATING INDICATED OR 10,000 AMPERES RMS SYMMETRICAL.
- ALL 125 VOLT, SINGLE PHASE, 20 AMPERE RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK OR OTHER WATER LOCATION ELEVATOR AND OR ESCALATOR PIT OR OUTDOORS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION.
- THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FEET ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.
- ELECTRICAL METALLIC TUBING MAY BE USED FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUIT WIRING, BUT NOT WHERE SUBJECT TO SEVERE PHYSICAL DAMAGE OR WATER OR MOISTURE CONDITIONS.

- FLEXIBLE METAL CONDUIT MAY BE USED ABOVE CEILINGS OR INSIDE WALLS FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUIT WIRING AND FOR SIGNAL WIRING, BUT NOT WHERE SUBJECT TO PHYSICAL DAMAGE OR WATER OR MOISTURE CONDITIONS.
- METAL-CLAD CABLE, TYPE MC, MAY BE USED AS PERMITTED UNDER 2010 CALIFORNIA ELECTRICAL CODE, ARTICLE 330.10. DO NOT USE WHERE SUBJECT TO PHYSICAL DAMAGE. PROVIDE BRANCH CIRCUIT HOMERUNS IN CONDUIT.
- ALL CONDUIT SHALL BE SQUARE CUT, DEBURRED, AND COMPLETELY ASSEMBLED WITH INSULATING BUSHINGS INSTALLED BEFORE PULLING CONDUCTORS.
- ALL WIRE AND CABLE SHALL BE COPPER, NO. 12 AWG MINIMUM, UNLESS OTHERWISE INDICATED. TYPE THHN INSULATION SHALL BE USED FOR ALL SIZES OF WIRE AND SHALL BE RATED TO OPERATE AT 600 VOLTS UNLESS OTHERWISE NOTED.
- GROUND WIRES ARE NOT GENERALLY INDICATED ON THESE DRAWINGS EXCEPT FOR SPECIFIC SYSTEMS. ALL SYSTEMS SHALL BE PROVIDED WITH GROUNDING AS REQUIRED IN ACCORDANCE WITH NEC SECTION 250 AND ALL AUTHORITIES HAVING JURISDICTION.
- RUN CONDUIT CONCEALED WHEREVER POSSIBLE AND WHERE INDICATED. WHEN CONDUIT MUST BE RUN EXPOSED, ONLY DO SO AS DIRECTED BY THE ENGINEER.
- NOTE THAT NOT ALL OF THE SYMBOLS AND ABBREVIATIONS SHOWN ON THE LISTS MAY BE USED ON THE DRAWINGS.
- ALL WORK TO COMPLY WITH 2010 CALIFORNIA ELECTRICAL CODE AND 2010 CALIFORNIA ENERGY CODE.
- PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS.
- THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRED BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION (210.4(D)).
- PROVIDE SEPARATE SUBMITTAL, OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND / OR MODIFICATIONS FROM THE LONG BEACH FIRE DEPARTMENT AND THE LONG BEACH DEVELOPMENT SERVICES DEPARTMENTS.
- PROVIDE SEPARATE SUBMITTAL FOR ALL ELECTRICAL SUBSYSTEMS WITH POWER SUPPLY(S) OF MORE THAN 50VA AND / OR 24V. (E.G., SECURITY, CARD READERS, TELCO / DATA, PA, AUDIO / VISUAL, NURSE CALL, HVAC AND REFRIGERATION CONTROLS, ETC.).
- ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L./ NRTL OR LISTED AND APPROVED BY A CITY OF LONG BEACH APPROVED TESTING LABORATORY.
- ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS / SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.
- EACH MULTIWIRED BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. (210.4(B))
- MULTIWIRED BRANCH CIRCUITS SUPPLYING POWER TO THE PERMANENTLY CONNECTED FREESTANDING PARTITION SHALL BE PROVIDED WITH A MEANS TO DISCONNECT SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (605.7)
- IN INDOOR LOCATIONS, OTHER THAN DWELLINGS AND ASSOCIATED ACCESSORY STRUCTURES, FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE. THE LINE SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE GUARDED. WHEN CONNECTED TO MULTIWIRED BRANCH CIRCUITS, THE DISCONNECTING MEANS SHALL SIMULTANEOUSLY BREAK ALL SUPPLY CONDUCTORS, INCLUDING THE GROUNDED CONDUCTOR. THE DISCONNECTING MEANS SHALL BE LOCATED SO AS TO BE ACCESSIBLE TO QUALIFIED PERSONS BEFORE SERVICING OR MAINTAINING THE BALLAST. WHERE THE DISCONNECTING MEANS IS EXTERNAL TO THE LUMINAIRE, IT SHALL BE A SINGLE DEVICE, AND SHALL BE ATTACHED TO THE LUMINAIRE OR THE LUMINAIRE SHALL BE LOCATED WITHIN SIGHT OF THE DISCONNECTING MEANS. 410.130(G)

**FIRE ALARM SYSTEM NOTES**

- EXISTING FIRE ALARM DEVICES ARE TO REMAIN. PROTECT DURING CONSTRUCTION.

**ELECTRICAL ABBREVIATIONS**

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
1/C	ONE CONDUCTOR PER CABLE	L.F.	LINEAR FEET
3/C	THREE CONDUCTORS PER CABLE	L.P.S.	LOW PRESSURE SODIUM LIGHTING
&	AND	LTG.	LIGHTING
@	AT	MAX.	MAXIMUM
A OR AMP	AMPERES	M.C.C.	MOTOR CONTROL CENTER
AIC	AMPERE INTERRUPTING CAPACITY	MCM	THOUSANDS CIRCULAR MILS
APPROX.	APPROXIMATE	M.H.	MANHOLE
ARCH	ARCHITECTURAL	MTD.	MOUNTED
AUTO	AUTOMATIC	MTG.	MOUNTING
AUX.	AUXILIARY	N	NORTH
AVE	AVENUE	(N)	NEW
AWG	AMERICAN WIRE GAUGE	N.E.C.	NATIONAL ELECTRICAL CODE
BAT	BATTERY	N.I.C.	NOT IN CONTRACT NUMBER
BET	BETWEEN	N.T.S.	NOT TO SCALE
BKR	BREAKER	N/C	NORMALLY CLOSED
BLDG	BUILDING	N/O	NORMALLY OPEN
B.S.	BARE STRANDED	N.L.	NIGHT LIGHT
C	CONDUIT	O.C.	ON CENTER
C.B.	CIRCUIT BREAKER	O.D.	OUTSIDE DIAMETER
CKT	CIRCUIT	O.F.C.	OIL FUSED CUTOUT
C.L.	CENTER LINE	O.H.	OVERHEAD
C.O.	CONDUIT ONLY	P.B.	PULL BOX
COL.	COLUMN	P.F.	POWER FACTOR PHASE
CONC.	CONCRETE	PH OR Ø	PLYWOOD
COND.	CONDUCTOR	PLYWD.	PLYWOOD
CONST.	CONSTRUCTION	PNL.	PANEL
CONTR.	CONTRACTOR	P.P.	POWER POLE
CPT	CONTROL POWER TRANSFORMER	PRI.	PRIMARY
C.R.	CONTROL RELAY	P.T.	POTENTIAL TRANSFORMER
CT	CURRENT TRANSFORMER	PWR.	POWER
CTRL.	CONTROL	RECP.	RECEPTACLE
C.W.P	COLD WATER PIPE	REC.	RECESSED
D.G.P.	DATA GATHERING PANEL	REQ'D	REQUIRED
DIAG.	DIAGRAM	R.G.S.	RIGID GALVANIZED STEEL ROOM
DISTR.	DISTRIBUTION	RM.	ROOM
D.P.	DISTRIBUTION PANEL	S.F.	SQUARE FEET
DWGS	DRAWINGS	SHT.	SHEET
EA	EACH	S.O.	SPLIT OUTLET
EC	EMPTY CONDUIT	S.P.	SINGLE POLE
ELEC.	ELECTRICAL	SPECS.	SPECIFICATIONS
ELEV.	ELEVATION	SQ.	SQUARE
E.M.T.	ELECTRICAL METALLIC TUBING	ST	STREET
E	EMERGENCY	STD.	STANDARD
E.Q.	EQUAL	STL.	STEEL
EQUIP.	EQUIPMENT	STRUCT.	STRUCTURAL
(E) OR EXIST	EXISTING	SUBSTA.	SUBSTATION
FA	FIRE ALARM	SURF.	SURFACE
FIN.	FINISH	SW.	SWITCH
F.L.A.	FULL LOAD AMPS	SWBD.	SWITCHBOARD
FLR.	FLOOR	SWGR.	SWITCHGEAR
FLUOR.	FLUORESCENT	TC.	TIMECLOCK
FT	FEET	TEL.	TELEPHONE
G OR GRD	GROUND	TRANS.	TRANSFORMER
GALV.	GALVANIZED	TSTAT.	THERMOSTAT
GFCI	GRND. FAULT CIRCUIT INTERRUPTER	T.V.	TELEVISION
H-O-A	HAND-OFF-AUTOMATIC	TYP.	TYPICAL
HP	HORSE POWER	U.G.	UNDERGROUND
HT.	HEIGHT	U.O.N.	UNLESS OTHERWISE NOTED
HTR.	HEATER	UTR	UP THROUGH ROOF
H.V.	HIGH VOLTAGE	V	VOLT
HZ.	HERTZ	VA	VOLT-AMPERE
I.G.	ISOLATED GROUND	W	WATT
Isc	SHORT CIRCUIT CURRENT	WP	WEATHERPROOF
K	KILO	W/	WITH
KV	KILOVOLT	W/O	WITHOUT
KA	THOUSAND AMPERES (KILO AMPERES)		
KVA	KILOVOLT AMPERE		
KW	KILOWATT		

**ELECTRICAL SYMBOLS**

SYMBOL	DESCRIPTION
	FLUORESCENT LIGHTING FIXTURE. LOWERCASE LETTERS DENOTE CONTROL.
	LIGHTING FIXTURE ON EMERGENCY SYSTEM
	EXIT LIGHT WALL OR CEILING MOUNTED
	EQUIPMENT JUNCTION BOX - FLUSH WALL OR CEILING MOUNTED.
	FURNITURE FEED - WALL MOUNTED NUMBER DENOTES NO. OF WORKSTATIONS SERVED
	FURNITURE FEED - FLOOR MOUNTED
	FIXTURE JUNCTION BOX
	TELEPHONE/DATA JUNCTION BOX FLUSH CEILING MOUNTED
	TELEPHONE/DATA JUNCTION BOX
	PEDESTAL MOUNTED TELEPHONE/DATA JUNCTION BOX
	TELEVISION JUNCTION BOX
	NEMA 6-30R RECEPTACLE
	DUPLEX RECEPTACLE FLUSH WALL MOUNTED 20A - 120V. U.O.N.
	DUPLEX RECEPTACLE FLUSH WALL MOUNTED 20A-120V. U.O.N.-GROUND FAULT INTERRUPTION PROTECTED
	DOUBLE DUPLEX RECEPTACLE FLUSH WALL MOUNTED. 20A - 120V. U.O.N.
	SIMPLEX CONVENIENCE RECEPTACLE FLUSH WALL MOUNTED 20A - 120V. U.O.N.
	DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED 20A - 120V. U.O.N.
	DOUBLE DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED 20A - 120V. U.O.N.
	DUPLEX RECEPTACLE FLUSH CEILING MOUNTED
	SWITCH. WALL MOUNTED 20A. SINGLE POLE U.O.N. LOWER CASE LETTERS DENOTE CONTROL
	INDICATES NUMBER OF WIRES (GROUNDS NOT INDICATED). 2#12 - 3/4"C. U.O.N.
	CONDUIT RUN EXPOSED. TICKS INDICATES NUMBER OF WIRES (GROUNDS NOT INDICATED). 2#12 - 3/4"C. U.O.N.
	2#12, 1#12 GND, 3/4"C, U.O.N
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR
	FLUSH MOUNTED PANEL,
	SURFACE MOUNTED PANEL,
	DISTRIBUTION SWITCHBOARD
	CIRCUIT BREAKER, RATED AS NOTED.
	GROUNDING ELECTRODE TO BUILDING STEEL COLD WATER PIPE AND UFER GROUND
	DISCONNECT SWITCH - 30 AMP 3 POLE U.O.N 'F' DENOTES FUSIBLE

**DRAWING LIST**

SHEET NO.	DESCRIPTION
E-0.0	ELECTRICAL SYMBOLS, ABBREVIATIONS AND DRAWING LIST
E-0.2	ELECTRICAL TITLE 24 CALCULATIONS
E-0.3	ELECTRICAL SCHEDULES AND SINGLE LINE DIAGRAM
E-1.0	ELECTRICAL OVERALL SITE PLAN
E-1.1	ELECTRICAL SITE PLAN
E-2.0	ELECTRICAL POWER PLAN
E-2.1	ELECTRICAL ENLARGED POWER PLAN
E-3.0	ELECTRICAL LIGHTING PLAN
E-4.0	ELECTRICAL ROOF PLAN
E-5.0	ELECTRICAL DETAILS



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HOUSING SERVICES DINING HALL  
5151 STATE UNIVERSITY DRIVE  
LOS ANGELES, CA 90032

NO.	DESCRIPTION	DATE
	BLDG DEPT SUBMITTAL	12-14-2012
	PLAN CHECK SET	1-4-2013
	REVISIONS	1-4-2013
	PEER REVIEW	1-16-2013
	BID SET	2-14-2013

**ELECTRICAL SYMBOLS, ABBREVIATIONS AND DRAWINGS LIST**

12-13-2012 2010.03  
FF CSULA CDS  
10102012.pn

**E-0.0**

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**CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 Project Address: 5151 State University Drive Los Angeles CA 90032  
 General Information: Building Type: Academic/Research, Conditioned Spaces, Unconditioned Spaces, etc.  
 Declaration Statement: I certify that this Certificate of Compliance documentation is accurate and complete.  
 Signatures: Stephen M. Hall (Designer), Gregory S. Ly (Inspector)

**CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST  
 Table with columns: Type, Description, Number of Units, Location in Building, Special Features, Pass/Fail, Field Inspector.  
 Includes sections for Unconditioned Space, Conditioned Space, and Luminaire (Type, Lamps, Ballasts) with detailed specifications for various lighting fixtures.

**CERTIFICATE OF COMPLIANCE (Part 3 of 4) LTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-2C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 POWER ADJUSTMENT FACTORS (PAF) FOR NON-DAYLIGHT CONTROLS  
 Table with columns: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

**INDOOR LIGHTING POWER ALLOWANCE (Part 1 of 3) LTG-3C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 ALLOWED LIGHTING POWER (Choose One Method)  
 Table with columns: Building Category, Watts per sq ft, Area, Allowed Watts.  
 Includes sections for Area Category Method and Tailored Method.

**LIGHTING MANDATORY MEASURES: NONRESIDENTIAL (Part 1 of 3) LTG-MM**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 INDOOR LIGHTING MEASURES  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**CERTIFICATE OF COMPLIANCE (Part 1 of 4) OLTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 COMPLIANCE WITH LIGHTING CONTROL SCHEDULE AND FIELD INSPECTION CHECKLIST  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**CERTIFICATE OF COMPLIANCE (Part 2 of 4) OLTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**CERTIFICATE OF COMPLIANCE (Part 3 of 4) OLTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 EXEMPT LUMINAIRES  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**INDOOR LIGHTING POWER ALLOWANCE (Part 2 of 3) LTG-3C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 AREA CATEGORY METHOD  
 Table with columns: Building Category, Watts per sq ft, Area, Allowed Watts.  
 Includes sections for Tailored Method and a summary table for the project.

**LIGHTING MANDATORY MEASURES: NONRESIDENTIAL (Part 2 of 3) LTG-MM**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 OUTDOOR LIGHTING MEASURES  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

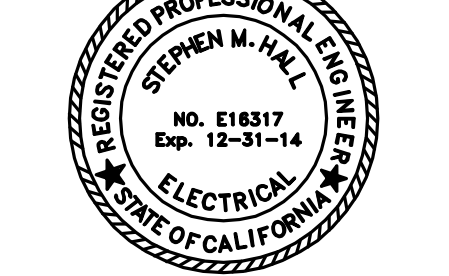
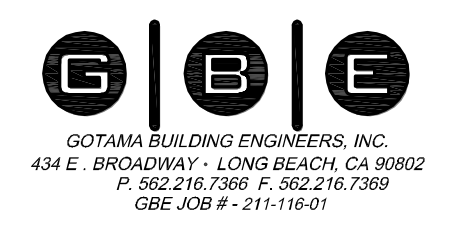
**CERTIFICATE OF COMPLIANCE (Part 3 of 4) OLTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 FIELD INSPECTION ENERGY CHECKLIST  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**CERTIFICATE OF COMPLIANCE (Part 4 of 4) OLTG-1C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST  
 Table with columns: #, Description, Location, #, Description, Location.  
 Includes sections for Field Inspector's Notes or Discrepancies and a summary table for the project.

**OUTDOOR LIGHTING WORKSHEET (Part 1 of 3) OLTG-2C**  
 Project Name: CSULA Dining Facility Date: 12/8/2012  
 LIGHTING POWER ALLOWANCE FOR GENERAL HARDSCAPE  
 Table with columns: Area, Watts per sq ft, Area, Allowed Watts.  
 Includes sections for Specific Application Lighting Wattage Allowance and a summary table for the project.



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HOUSING SERVICES DINING HALL  
 5151 STATE UNIVERSITY DRIVE  
 LOS ANGELES, CA 90032  
 ELECTRICAL  
 TITLE 24  
 CALCULATIONS  
 12-13-2012 2010.03  
 FF CSULA CDS  
 10120202.pln  
 E-0.2

Last plotted by escara on 02/12/2013 8:29pm, Last saved on 01/21/2013 3:43pm G:\CSULA Dining Facility\Electrical\E-0.2-dwg E-0.2 ELECTRICAL TITLE 24 - CALCS 19.0s (LMS Tech)



Last plotted by ascara on 02/12/2013 8:29am, Last saved on 02/11/2013 3:56pm G:\CSULA\_Dinning Facility\Electrical\E-0.3.dwg E-0.3\_19.Dwg (LMS Teet)

### PANELBOARD 'KA' SCHEDULE

VOLTAGE: 208Y/120V, 3% C, 4W  
 BUS (AMPS): 600  
 MAINS: MCB  
 AIC RATING: 25,000

MOUNTING: SURFACE  
 ENCLOSURE: NEMA 1  
 BUS TYPE: COPPER  
 LOCATION: ELEC ROOM

1=CONTINUOUS LOAD  
 2=NON-CONTINUOUS LOAD  
 3=RECEPTACLE LOAD  
 4=KITCHEN LOAD  
 5=GUESTROOM LOAD

CKT NO.	CODE	BREAKER		LOAD DESCRIPTION	LOAD VA	PHASE			LOAD VA	LOAD DESCRIPTION	BREAKER		CKT NO.	
		TRIP	POLE			A	B	C			TRIP	POLE		
1	4	20	1	AIR CURTAIN - 001	1920	3348	---	---	1428	ICE MAKER - 004	20	1	4	2
3	4	20	1	MIXER, COUNTER - 011	1440	---	---	---	1800	FOOD PROCES. - 013	20	1	4	4
5		20	1	SPARE	---	---	---	24	24	WALK-IN COOLER - 019	20	1	4	6
7	4	20	1	EVAP. COIL COOLER - 020	960	2160	---	---	1200	WALK-IN FREEZER - 022	20	1	4	8
9	4	20		EVAP. COIL FREEZER - 023	1258	---	1258	---	---	SPARE	20	1		10
11	4		2		1258	---	---	2050	792	SLICER, FOOD - 028	20	1	4	12
13	4	20	1	REFRIG. PIZZA PREP - 033	1320	6104	---	---	4784	MICROWAVE COMBI - 035	60			14
15	4	20	1	SANDWICH TABLE - 038	876	---	5660	---	4784			2		16
17	4	20	1	TILT SKILLET - 040	600	---	---	1176	576	RANGE, HEAVY DUTY - 041	20	1	4	18
19	4	20	1	COMBI-OVEN - 043	1260	1760	---	---	500	EXHAUST HOOD - 044	20	1	4	20
21	2	20	1	CP-1 & WH-1	1356	---	1856	---	500	EXHAUST HOOD - 045	20	1	4	22
23	2	20	1	L-1 (HAND FAUCET)	720	---	---	1220	500	FIRE SYSTEM - 048	20	1	4	24
25	2				12031	12631	---	---	600	SODA & ICE DISPEN. - 097	20	1	4	26
27	2	225	3	PANEL KB	12630	---	13470	---	840	FRYER BATT.W/FILTER - 056	20	1	4	28
29	2				13275	---	---	13935	660	FREEZER COMPACT - 057	20	1	4	30
31	2				23723	23903	---	---	180	COUNTER - 059	20	1	4	32
33	2	225	3	PANEL KC	22711	---	24427	---	1716	HEATED CABINET - 063	20	1	4	34
35	2				20634	---	---	21871	1238	ICE MAKER - 070	20			36
37	4				6600	7838	---	---	1238		2			38
39	4	70	3	WAREWASHER/BOOSTER - 073	6600	---	6960	---	360	PREP TABLE W/SINK - 014	20			40
41	4				6600	---	6960	---	360		2			42
					57743	56871	47237	CONNECTED KVA		161.9				
								CODE 1 KVA		0.0				
								CODE 2 KVA		107.1				
								CODE 3 KVA		0.0				
								CODE 4 KVA		54.8				
								CODE 5 KVA		0.0				
								DEMAND LOAD (KVA)		142.7				
								DEMAND LOAD (A)		396.0				

NOTES:

DATE: 2/11/2013

### PANELBOARD 'KB' SCHEDULE

VOLTAGE: 208Y/120V, 3% C, 4W  
 BUS (AMPS): 225  
 MAINS: MLO  
 AIC RATING: 22,000

MOUNTING: SURFACE  
 ENCLOSURE: NEMA 1  
 BUS TYPE: COPPER  
 LOCATION: ELEC ROOM

1=CONTINUOUS LOAD  
 2=NON-CONTINUOUS LOAD  
 3=RECEPTACLE LOAD  
 4=KITCHEN LOAD  
 5=GUESTROOM LOAD

CKT NO.	CODE	BREAKER		LOAD DESCRIPTION	LOAD VA	PHASE			LOAD VA	LOAD DESCRIPTION	BREAKER		CKT NO.	
		TRIP	POLE			A	B	C			TRIP	POLE		
1	4	20	1	COLLECTOR, FOOD - 077	1320	2112	---	---	792				2	2
3	4	20		SOILED DISHTABLE - 079	1560	---	2352	---	792	MAU-2	20	3		4
5	4		2		1560	---	---	2352	792					6
7	4	20	1	DESSERT DISPLAY - 089	840	1020	---	---	180	EXTERIOR ROOF RECEP	20	1	3	8
9	4	40		COFFEE MAKER - 091	2995	---	3495	---	500	PHOTOCELL	20	1	2	10
11	4		2		2995	---	---	4435	1440	DINNING RECEPTACLE/TV	20	1	3	12
13	4	20	1	JUICE DISPENSER - 093	1320	4419	---	---	3099	DROP-IN, HOT WELLS - 101	40			14
15	4	20	1	MILK DISPENSER - 098	192	---	3291	---	3099			2		16
17	4	20	1	SNEEZE GUARD - 102	2400	---	---	3228	828	DROP-IN, HOT WELLS - 109	20	1	4	18
19	4	20	1	DISPLAY, HEATED - 106	1716	2916	---	---	1200	SNEEZE GUARD - 114	20	1	4	20
21	4	20	1	DROP-ON, COLD PLAN - 113	480	---	1680	---	1200	SNEEZE GUARD - 118	20	1	4	22
23	4	20	1	DROP-IN, COLD PLAN - 117	840	---	---	1668	828	DROP-IN, HOT WELLS - 109	20	1	4	24
25	3	20	1	OFFICE RECEPTACLE	1440	2700	---	---	1260	COMBI-OVEN - 043	20	1	4	26
27	4	20	1	DISPLAY, HEATED - 106	1716	---	2076	---	360	PREP TABLE W/SINK - 014	20	1	4	28
29	4	20	1	TILT SKILLET - 040	600	---	---	780	180	PREP TABLE W/SINK - 014	20	1	4	30
31	1	20	1	OUTTER/EXTERIOR LTG	557	917	---	---	360	PREP TABLE W/SINK - 027	20			32
33	1	20	1	N. DINNING AREA LTG	1442	---	1802	---	360			2		34
35	1	20	1	KITCHEN AREA LTG	700	---	1600	---	900	DINNING RECEPTACLE/TV	20	1	3	36
37	1	20	1	S. DINNING AREA LTG	350	1610	---	---	1260	DINNING RECEPTACLE/TV	20	1	3	38
39	3	20	1	DINNING AREA PROJECTOR	500	---	1760	---	1260	DINNING RECEPTACLE/TV	20	1	3	40
41	4	20	1	FRIED FOOD STATION - 058	1812	---	---	3252	1440	EXTERIOR RECEPTACLES	20	1	3	42
43	4	20	1	SANDWICH TABLE - 061	876	2706	---	---	1830	SOFT SERVE MACHINE - 088	20			44
45	4	20	1	SODA SYSTEM - 069	1200	---	3030	---	1830			2		46
47		20	1	SPARE	---	---	1830	---	1830	SOFT SERVE MACHINE - 088	25			48
49		20	1	SPARE	---	1830	---	---	1830			2		50
51		20	1	SPARE	---	0	---	---	---	SPARE	20	1		52
53		20	1	SPARE	---	---	0	---	---	SPARE	20	1		54
					20231	19487	19146	CONNECTED KVA		58.9				
								CODE 1 KVA		3.0				
								CODE 2 KVA		2.9				
								CODE 3 KVA		8.4				
								CODE 4 KVA		44.5				
								CODE 5 KVA		0.0				
								DEMAND LOAD (KVA)		44.0				
								DEMAND LOAD (A)		122.3				

NOTES:

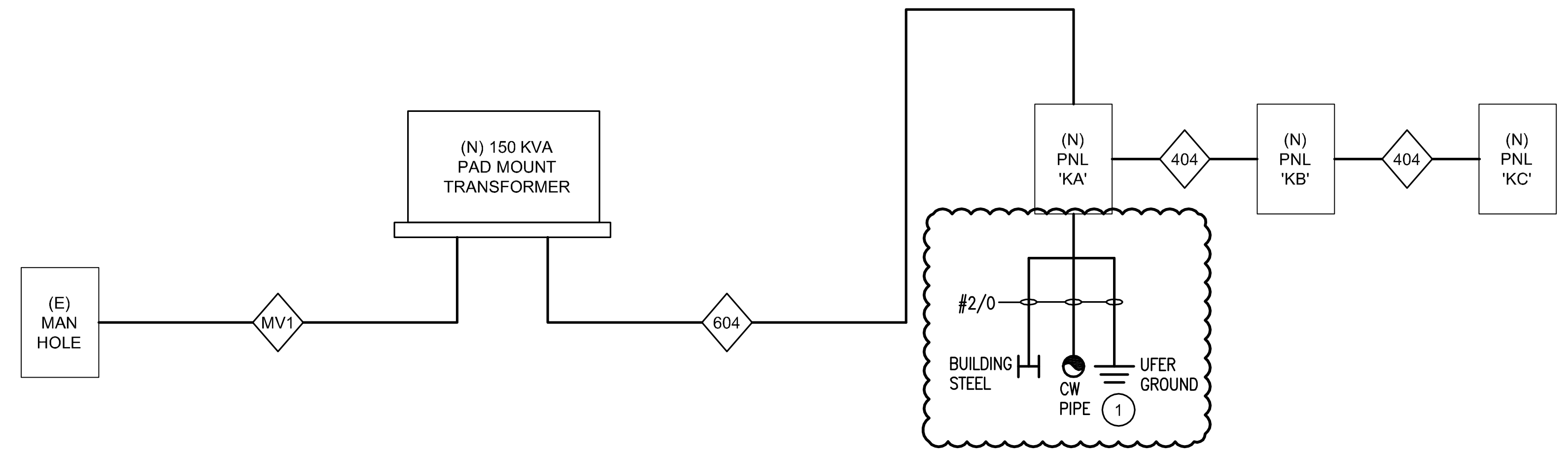
DATE: 2/11/2013

### FEEDER SCHEDULE (4-WIRE)

FEEDER	CONDUIT AND WIRE (COPPER) THHN/THWN
◇ MV1	4"C, (3) #1 AWG, 1#6 GND, TYPE MV105 5KV 4"C SPARE
◇ 604	(2) 3"C, EACH WITH (4) 350 kcmil, 1#1 GND
◇ 404	3"C, (4) 500 kcmil, 1#3 GND

### KEY NOTES

1 PROVIDE UFER GROUND AND GROUND NEUTRAL BUS AT PANEL KA, BOND TO COLD WATER PIPE AND BUILDING STEEL.



1 ELECTRICAL SINGLE LINE DIAGRAM  
SCALE: N.T.S.

### PANELBOARD 'KC' SCHEDULE

VOLTAGE: 208Y/120V, 3% C, 4W  
 BUS (AMPS): 225  
 MAINS: MLO  
 AIC RATING: 22,000

MOUNTING: SURFACE  
 ENCLOSURE: NEMA 1  
 BUS TYPE: COPPER  
 LOCATION: ELEC ROOM

1=CONTINUOUS LOAD  
 2=NON-CONTINUOUS LOAD  
 3=RECEPTACLE LOAD  
 4=KITCHEN LOAD  
 5=GUESTROOM LOAD

CKT NO.	CODE	BREAKER		LOAD DESCRIPTION	LOAD VA	PHASE			LOAD VA	LOAD DESCRIPTION	BREAKER		CKT NO.	
		TRIP	POLE			A	B	C			TRIP	POLE		
1	2				3264	4252	---	---	988	FC-1	20		2	2
3	2	50	3	CU-1	3264	---	4252	---	988			2		4
5	2				3264	---	---	4252	988	FC-2	20			6
7	2				3264	4252	---	---	988			2		8
9	2	50	3	CU-2	3264	---	4252	---	988	FC-3	20			10
11	2				3264	---	---	4252	988			2		12
13	2				3264	4252	---	---	988	FC-4	20			14
15	2	50	3	CU-3	3264	---	4252	---	988			2		16
17	2				3264	---	---	4044	780	FC-5	20			18
19	2				3264	4044	---	---	780			2		20
21	2	50	3	CU-4	3264	---	3330	---	66	FC-6	20			22
23	2				3264	---	---	3330	66			2		24
25	2				2448	3240	---	---	792					26
27	2	40	3	CU-5	2448	---	3240	---	792	KEF-1	20	3		28
29	2				2448	---	---	3240	792					30
31	2	30		CU-6	1955	2507	---	---	552					32
33	2		2		1955	---	2507	---	552	KEF-2	20	3		34
35	2				792	---	---	1344	552					36
37	2	20	3	MAU-1	792	1176	---	---	384	KEF-3	20	1	2	38
39	2				792	---	---	---	86	EF-1	20	1	2	40
41	2	20	1	EF-3	86	---	---	172	86	EF-2	20	1	2	42
43		20	1	SPARE	0	---	---	---	---	SPARE	20	1		44
45		20	1	SPARE	---	0	---	---	---	SPARE	20	1		46
47		20	1	SPARE	---	---	0	---	---	SPARE	20	1		48
49		20	1	SPARE	0	---	---	---	---	SPARE	20	1		50
51		20	1	SPARE	---	0	---	---	---	SPARE	20	1		52
53		20	1	SPARE	---	---	0	---	---	SPARE	20	1		54
					23723	22711	20634	CONNECTED KVA		67.1				
								CODE 1 KVA		0.0				
								CODE 2 KVA		67.1				
								CODE 3 KVA		0.0				
								CODE 4 KVA		0.0				
								CODE 5 KVA		0.0				
								DEMAND LOAD (KVA)		67.1				
								DEMAND LOAD (A)		186.2				

NOTES:

DATE: 2/11/2013

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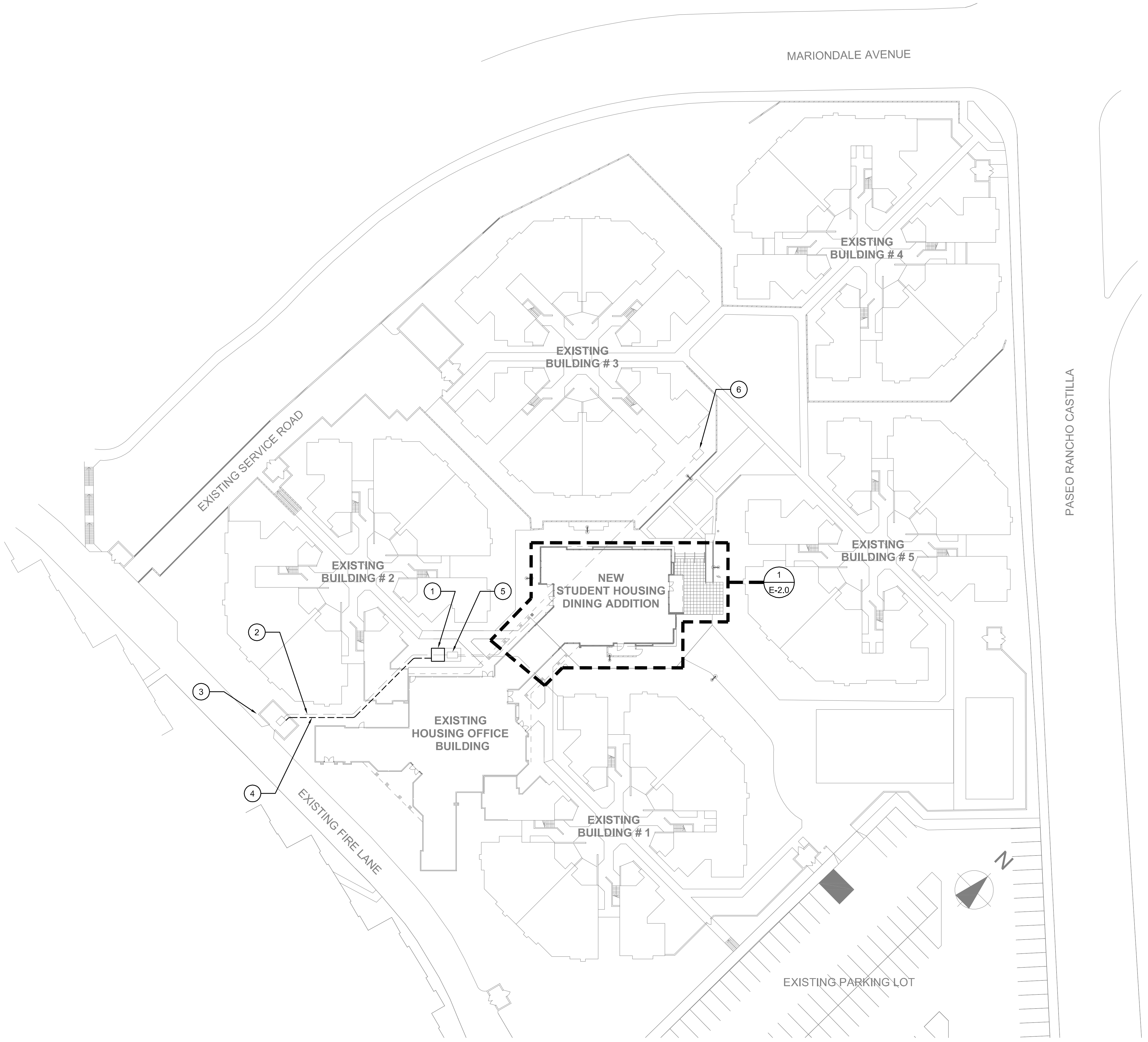
HOUSING SERVICES DINING HALL  
5151 STATE UNIVERSITY DRIVE  
LOS ANGELES, CA 90032

NO.	DESCRIPTION	DATE
1	BLDG DEPT SUBMITTAL	12-14-2012
2	PLAN CHECK SET	1-4-2013
3	REVISIONS	1-4-2013
4	PEER REVIEW	1-16-2013
5	BID SET	2-14-2013

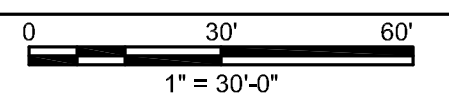
**ELECTRICAL SCHEDULES AND SINGLE LINE**

12-13-2012 2010.03  
FF CSULA CDS  
10102012.pn  
**E-0.3**

Last plotted by ascara on 02/12/2013 8:29am, Last saved on 01/21/2013 3:44pm G:\CSULA\_Dinning Facility\Electrical\E-1.0.dwg E-1.0\_19.0s (LMS\_Tech)



**1** ELECTRICAL OVERALL SITE PLAN  
SCALE: 1" = 30'



**GENERAL NOTES**

1. -

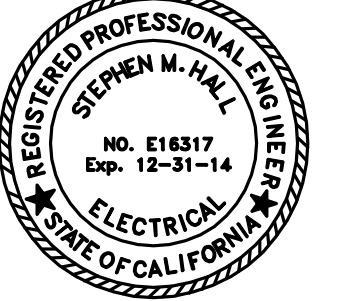
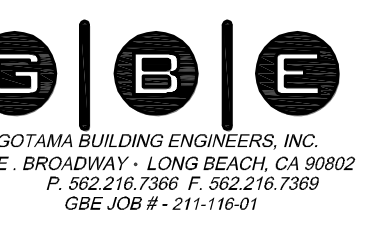
**KEY NOTES**

- ① (N) 8'X8' TRANSFORMER PAD WITH 150kVA PAD MOUNT TRANSFORMER.
- ② (E) 4" C, (3) 500 KCMIL - SHIELDED 5KV CABLE. (E) 4" C.O. SPARE
- ③ (E) TRANSFORMER ENCLOSURE.
- ④ (N) 4" C, 3#2 - SHIELDED 5KV CABLE.
- ⑤ (E) TRANSFORMER #1.
- ⑥ (E) TRANSFORMER #2.



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5151 STATE UNIVERSITY DRIVE  
LOS ANGELES, CA 90032

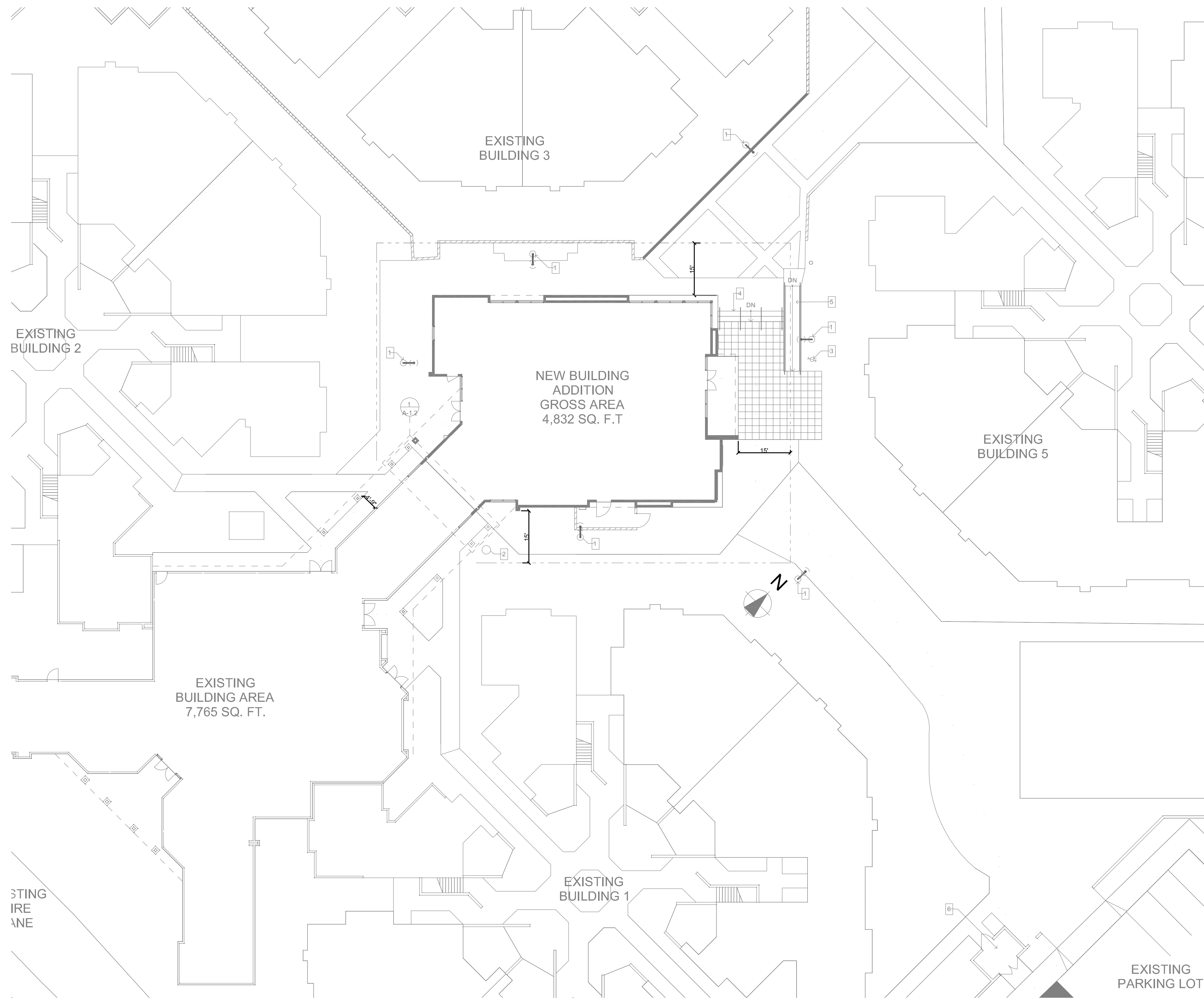
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	BLDG DEPT SUBMITTAL	12-14-2012
▲	PLAN CHECK SET	1-4-2013
▲	REVISIONS	1-4-2013
▲	PEER REVIEW	1-16-2013
	BID SET	2-14-2013

**ELECTRICAL OVERALL SITE PLAN**

12-13-2012 2010.03  
FF CSULA CDS  
10102012.pn

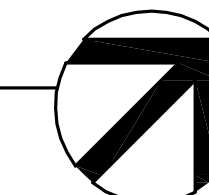
**E-1.0**

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

0 8' 16' 32'  
1/16" = 1'-0"



**GENERAL NOTES**

1. -

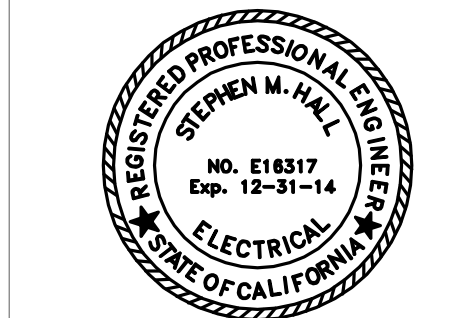
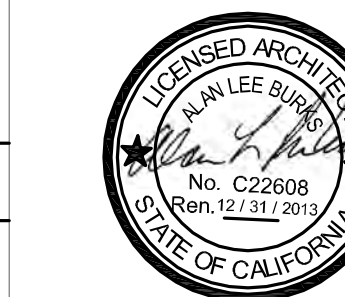
**KEY NOTES**

① -



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**HOUSING SERVICES DINING HALL  
5151 STATE UNIVERSITY DRIVE  
LOS ANGELES, CA 90032**

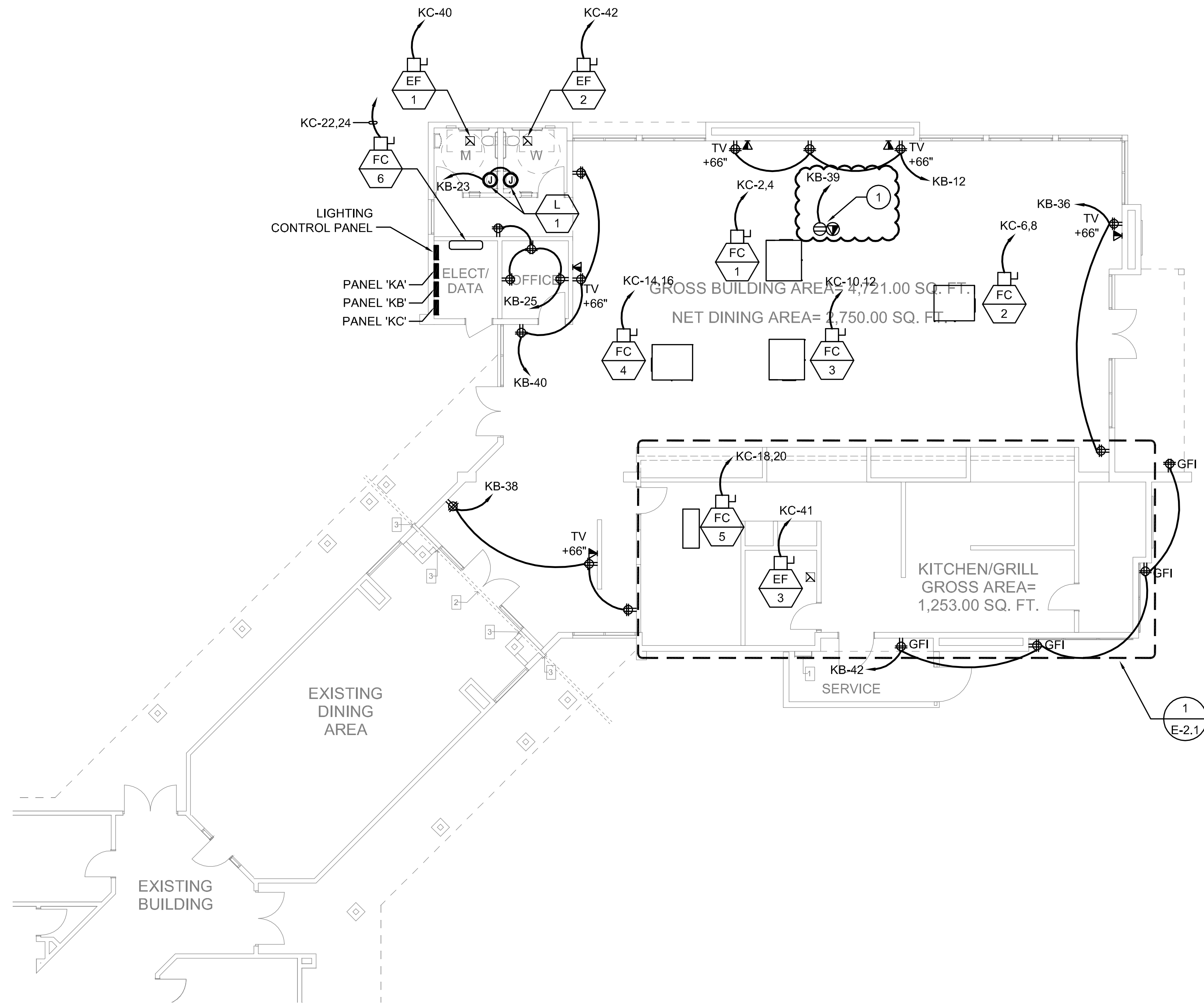
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▲	PLAN CHECK SET	1-4-2013
▲	REVISIONS	1-4-2013
▲	PEER REVIEW	1-16-2013
	BID SET	2-14-2013

**ELECTRICAL  
SITE PLAN**

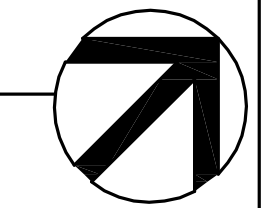
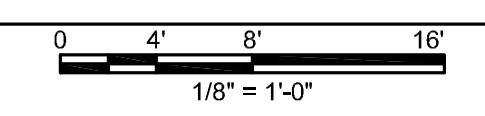
12-13-2012 2010.03  
FF CSULA CDS  
10102012.pln

**E-1.1**

Last plotted by escara on 02/12/2013 8:29am, Last saved on 02/11/2013 4:03pm G:\CSULA Dining Facility\Electrical\E-2.0.dwg E-2.0\_19.Ds (LMS Tech)



**1 ELECTRICAL POWER PLAN**  
SCALE: 1/8" = 1'-0"



**GENERAL NOTES**

1. -

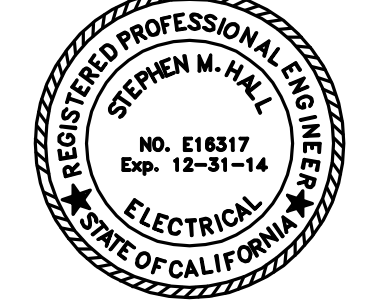
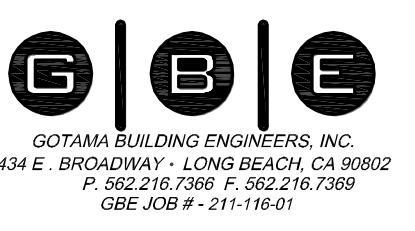
**KEY NOTES**

**1** PROVIDE POWER AND DATA FOR CEILING MOUNTED PROJECTOR.



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**HOUSING SERVICES DINING HALL**  
**5151 STATE UNIVERSITY DRIVE**  
**LOS ANGELES, CA 90032**

NO.	DESCRIPTION	DATE
	BLDG DEPT SUBMITTAL	12-14-2012
▲	PLAN CHECK SET	1-4-2013
▲	REVISIONS	1-4-2013
▲	PEER REVIEW	1-16-2013
	BID SET	2-14-2013

**ELECTRICAL POWER PLAN**

12-13-2012 2010.03  
FF CSULA CDS  
10102012.pln

**E-2.0**



Last plotted by escora on 02/12/2013 8:33am, Last saved on 02/12/2013 8:33am, G:\CSULA\_Dirmina Facility\Electrical\E-2.1.dwg, E-2.1, 19.0s (LMS Tech)

FIXTURE AND EQUIPMENT SCHEDULE REQUIREMENTS										
ITEM	DESCRIPTION	MAKE	MODEL	QTY	VOLTS	HP	RVY	AMPS	PHASE	REMARKS
001	AIR CURTAIN UNHEATED	MARS AIR DOORS	MH42-1L"	1	120	1.0		18.0	1	X DOWN THRU DOOR MICRO SWITCH
004	ICE MAKER (SELF-CONTAINED)	MANITOWOC ICE	IT-685A	1	120			11.9	1	X SELF-CONTAINED
011	MIXER, COUNTER	VARMIXER	W20A	1	120	1.0		12.0	1	X
013	FOOD PROCESSOR	ROBOT COUPE	R802Y	1	120	2.0		15.0	1	X NEMA 5-15P
014	PREP TABLE W/ SINKS	CUSTOM	ST. STEEL	1	120/208				1	X 2 120 VOLT CONV. OUTLET 1/208 VOLT CONV. OUTLET
016	TRASH RECEPTACLE	N.I.C.	(SUPPLY ITEM)	3						X
019	WALK-IN COOLER (9'4") REMOTE	CUSTOM	FAB	1	120	0.2			1	X 21 EA-100W VAPORPROOF LIGHT W/ SWITCH @ DOOR
020	EVAPORATOR COIL (COOLER)	CUSTOM	REF	1	120			8.0	1	X
022	WALK-IN FREEZER (9'4") REMOTE	CUSTOM	FAB	1	120			10.0	1	X 11 EA-100W VAPORPROOF LIGHT W/ SWITCH @ DOOR HEATED DOOR VENT & FRAME
023	EVAPORATOR COIL (FREEZER)	CUSTOM	REF	1	208			12.1	1	X E.C. TO PROVIDE FIVE (5) WIRE SERVICE BETWEEN COIL & COMPRESSOR
027	PREP TABLE W/ SINKS	CUSTOM	ST. STEEL	1	120/208				1	X 2 120 VOLT CONV. OUTLET 1/208 VOLT CONV. OUTLET
028	SLICER, FOOD	BIZERBA	SE120 PRO	1	120	0.7	5.8		1	X NEMA 5-15P
033	REFRIGERATOR, PIZZA PREP	CONTINENTAL	CPA80	1	120	1/2		11.0	1	X SELF-CONTAINED
035	MICROWAVE COMBI	TURBOCHEF	IS-8500-1	1	208		9.5	46.0	1	X
038	SANDWICH PREP TABLE	CONTINENTAL	DL48-18M	1	120	1/5		7.3	1	X SELF-CONTAINED
040	TILT SKILLET	SOUTHBEND	BC1TS-30	1	120			5.0	1	X
041	RANGE, HEAVY DUTY, GAS	SOUTHBEND	P36A-8BB	1	120	1/3		4.8	1	X
043	COMBOVEN	BLODGETT COMBI	BCX-14G STACKED	1	120				1	X 11 20.0 AMP CIRCUIT NEMA 5-20P PER UNIT (2 TOTAL)
044	EXHAUST HOOD	GAYLORD	CUSTOM	1	120	0.5			1	X 41 150W FLUORESCENT LIGHTS W/ SWITCH @ HOOD
045	EXHAUST HOOD	GAYLORD	CUSTOM	1	120	0.5			1	X 41 150W FLUORESCENT LIGHTS W/ SWITCH @ HOOD
046	EXHAUST SYSTEM	N.I.C.	(BY H.V.A.C.)	1	LOI	208			3	X ON ROOF W/ SWITCH @ HOOD VERIFY LOCATION & REQUIREMENTS
048	MAKE-UP AIR SYSTEM	N.I.C.	(BY H.V.A.C.)	1	LOI	208			1	X ON ROOF, E.C. TO INTERCONNECT TO 20A SYSTEM, VERIFY LOCATION & REQS
048	FIRE SYSTEM	CUSTOM	ANSLA	1	LOI	120			1	X 10.0 AMP CIRCUIT
054	REFRIGERATOR, SHORTY	SOUTHBEND	200725B	1	120	1/3		6.5	1	X SELF-CONTAINED
056	FRYER BATTERY W/ FILTER	PITCO	2-SG14-SFD	1	120/120	1/3		7.0	1	X FILTER & FRYER
057	FREEZER COMPACT	CONTINENTAL	SWF27-4S	1	120	1/4		5.5	1	X SELF-CONTAINED
058	FRIED FOOD HOLDING STATION	CARTER/HOFFMANN	CN528	1	120			15.1	1	X NEMA 5-20P

FIXTURE AND EQUIPMENT SCHEDULE REQUIREMENTS											
ITEM	DESCRIPTION	MAKE	MODEL	QTY	VOLTS	HP	RVY	AMPS	PHASE	REMARKS	
059	COUNTER	CUSTOM	ST. STEEL	1	120				1	X 1 120 VOLT CONV. OUTLET	
061	SANDWICH PREP TABLE	CONTINENTAL	DL48-12	1	120	1/5		7.3	1	X SELF-CONTAINED	
063	HEATED CABINET	CONTINENTAL	DL2WE-SS	1	120/208			2.3	14.3	1	X SELF-CONTAINED
066	SODA SYSTEM	N.I.C.	(BY PURVEYOR)	1	LOI	120			1	X VERIFY REQUIREMENTS W/ SUPPLIER 30 AMP CIRCUIT	
070	ICE MAKER	MANITOWOC ICE	ID-082A	1	208/230			16	1	X SELF-CONTAINED ADDITIONAL 120 V 7.2A POWER REQUIRED FOR REMOTE ICE MAKER	
073	WAREWASHER W/ BOOSTER	HOBART	CL44E-E-RL	1	208	2.17	15.0	55.0	3	X SINGLE POINT CONNECT	
075	EXHAUST SYSTEM	N.I.C.	(BY H.V.A.C.)	1	208				3	X ON ROOF W/ SWITCH @ HOOD VERIFY LOCATION & REQUIREMENTS	
077	COLLECTOR, FOOD WASTE	SALVAJOR	S419	1	120	3/4		11.0	1	X WIRE THRU CONTROL'S	
079	SOILED DISHBASE	AEROWORKS	ST. STEEL	1	208			15.0	1	X VERIFY ELECTRICAL LOAD, WIRE THRU CONTROL'S	
088	SOFT SERVE MACHINE	TAYLOR	339	1	120/208	(27)			1	X 25 MAX FUSE LEFT, 20 MAX FUSE RIGHT (SEE P-CONTAINED)	
089	DESSERT DISPLAY (DRY/WET)	CUSTOM (REMOTE)	ST. STEEL/GLASS	1	LOI	120		7.0	1	X E.C. TO WIRE THRU CONTROL BOX & DISPLAY LIGHTS, (REMOTE)	
090	REMOTE REF. SYSTEM	CUSTOM	TBD	1	LOI	208			3	X LOCATED ON ROOF, VERIFY LOCATION	
091	COFFEE MAKER	N.I.C.	(BY OWNER)	1	120/208			6.0	28.8	1	X VERIFY REQUIREMENTS
093	JUICE DISPENSER	N.I.C.	(BY PURVEYOR)	1	120			11.0	1	X VERIFY REQUIREMENTS	
097	SODA & ICE DISPENSER	N.I.C.	(BY PURVEYOR)	1	120			5.0	1	X VERIFY REQUIREMENTS	
098	MILK DISPENSER	SILVER KING	MA-ESTIC2	1	120			1.8	1	X VERIFY REQUIREMENTS	
101	DROP-IN, HOT WELLS	WELLS	MOD-500TDM	1	208		8.2	29.6	1	X WIRE THRU CONTROL'S	
102	SNEEZE GUARD	BSI	ZG9915_LIGHT/TREAT	1	LOI	120		20.0	1	X MTD SWITCH	
106	DISPLAY CASE, HEATED	HATCO	GRPWS-4824D	1	120	1.7	14.3		1	X	
109	DROP-IN, HOT WELLS	WELLS	SS-10ULTD	2	120		0.8	6.9	1	X WIRE THRU CONTROL'S	
113	DROP-IN, COLD PAN	WELLS	RCP-7600	1	120		0.2	4.0	1	X	
114	SNEEZE GUARD	BSI	ZG9915_LIGHT	1	LOI	120		10.0	1	X DOWN THRU FIXTURE MTD SWITCH	
116	DROP-IN, COLD PAN	WELLS	RCP-7400	1	120		0.3	7.0	1	X	
117	SNEEZE GUARD	BSI	ZG9915_LIGHT	1	LOI	120		10.0	1	X DOWN THRU FIXTURE MTD SWITCH	
121	DROP-IN, HEATED SHELF	HATCO	GRSB-424	1	120		0.9	8.9	1	X	

GENERAL NOTES

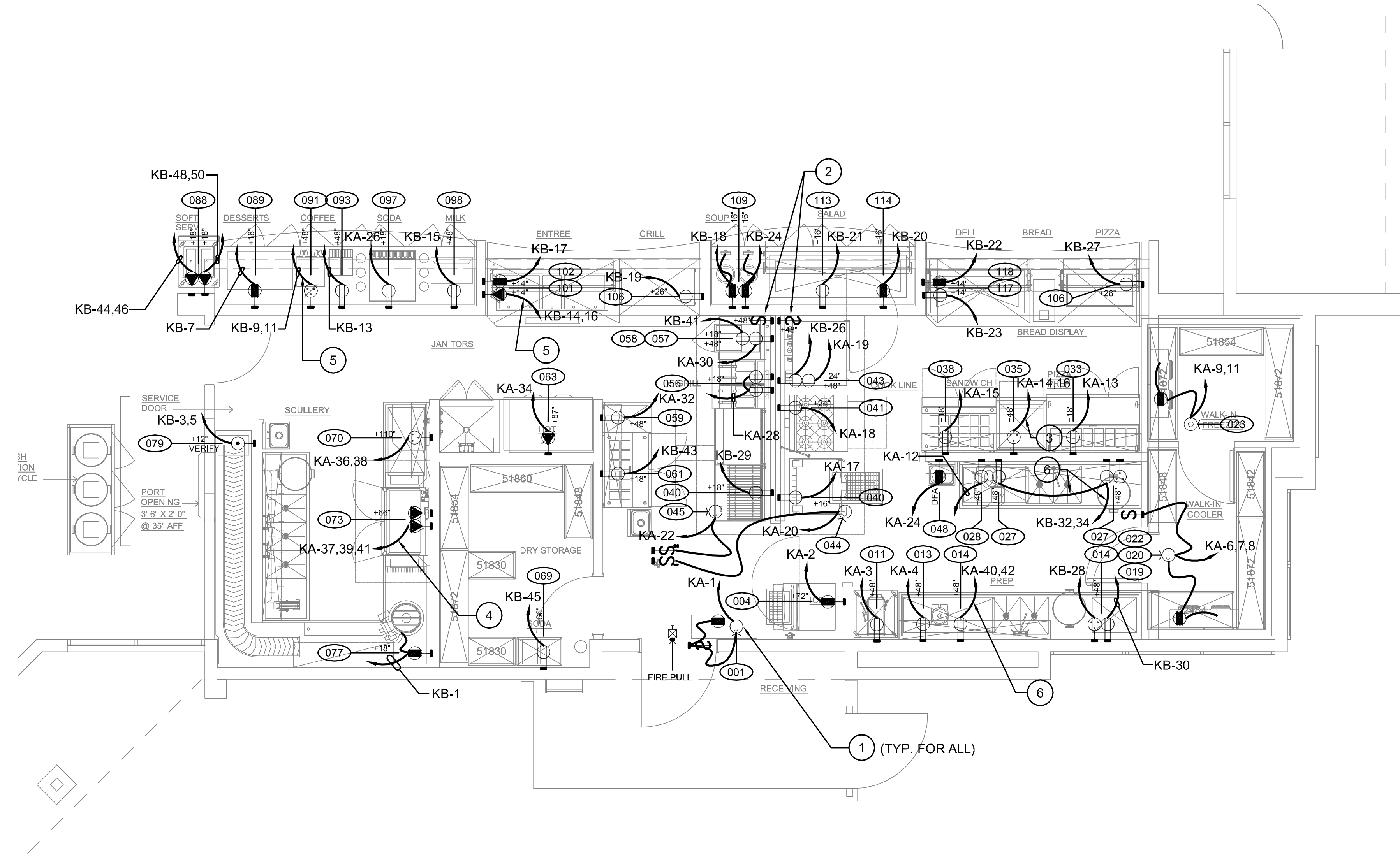
- ANY AND ALL EXPOSED ELECTRICAL/DATA DEVICES (SWITCHES, J-BOXES AND OUTLETS) SHALL BE LOCATED IN FIELD WITH ARCHITECT PRIOR TO INSTALLING CONDUIT OR PULLING WIRE. PLAN SHOWS GENERAL LAYOUT ONLY.
- REFER TO KITCHEN DRAWINGS FOR FURTHER EQUIPMENT INFORMATION AND FOR EXACT LOCATIONS.
- VERIFY CONNECTION REQUIREMENTS FOR EQUIPMENT WITH KITCHEN DRAWINGS BEFORE ORDERING.
- 125V 20A RECEPTACLES INSTALLED IN THE KITCHEN SHALL BE GFCI PROTECTED, WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE PROVIDE A GFCI BREAKER.

KEY NOTES

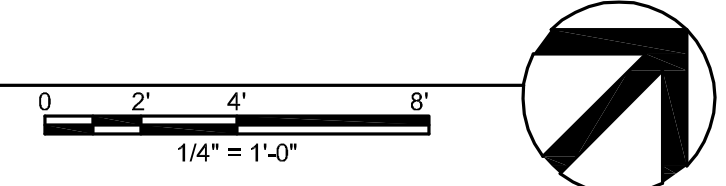
- PROVIDE DISCONNECTING MEANS OR LOCKABLE DEVICE ON THE CIRCUIT BREAKER PROTECTING THE CIRCUIT.
- KITCHEN EXHAUST FAN SWITCH INTERCONNECTED WITH MAKE UP AIR UNIT, VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- 2#6, 1#10 GND 3/4".
- 3#1, 1#6 GND 1 1/4".
- 2#8, 1#10 GND 3/4".
- 3#12, 1#12 GND

ELECTRICAL LEGEND

- 120 VOLT 1 PH. CONVENIENCE OUTLET (C.O.)
- 120 VOLT 1 PH. QUAD CONVENIENCE OUTLET (C.O.)
- 120 VOLT 1 PH. DIRECT FLEXIBLE CONNECTION
- 120 VOLT 1 PH. INCANDESCENT LIGHT FIXTURE
- 208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)
- 120/208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)
- 208 VOLT 1 PH. OR 3 PH. DIRECT FLEXIBLE CONNECTION
- 120/208 VOLT 1 PH. DIRECT FLEXIBLE CONNECTION
- 480 VOLT 3 PH. DIRECT FLEXIBLE CONNECTION
- 72" FLEX WHIP (NO INTERNAL WALL CONNS. BELOW +48")
- JUNCTION BOX
- FIRE PULL-BOX (MOUNT @ +48" A.F.F.)
- 208 VOLT 1 PH. OR 3 PH. FLOOR FLUSH OUTLET
- 120 VOLT 1PH. FLOOR FLUSH OUTLET
- CONDUIT CHASE LINE CONNECTION (PULL-BOX)
- PVC CONDUIT LINE (UNDER FLOOR)
- REFRIGERATION LINE
- SWITCH
- SWITCH FOR HOOD LIGHTS
- SWITCH FOR EXHAUST & M.U.A. FANS
- 120 VOLT 1 PH. 150W FLUORESCENT HOOD LIGHT
- EXHAUST FAN
- MAKE-UP AIR FAN
- TELEPHONE (VERIFY W/ TELEPHONE COMPANY)
- DATA LINE (VERIFY W/ DATA COMMUNICATIONS CONTRACTOR)
- ITEM NUMBER (SEE EQUIPMENT SCHEDULE)
- D.F.A. DOWN FROM ABOVE

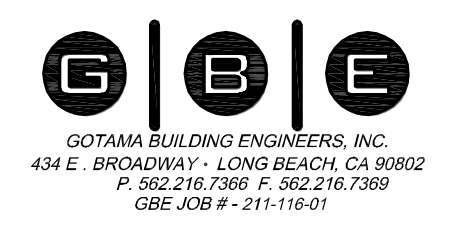


1 ELECTRICAL ENLARGED POWER PLAN  
SCALE: 1/4" = 1'-0"



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HOUSING SERVICES DINING HALL  
5151 STATE UNIVERSITY DRIVE  
LOS ANGELES, CA 90032

NO.	DESCRIPTION	DATE
	BLDG DEPT SUBMITTAL	12-14-2012
	PLAN CHECK SET	1-4-2013
	REVISIONS	1-4-2013
	PEER REVIEW	1-16-2013
	BID SET	2-14-2013

ELECTRICAL ENLARGED POWER PLAN

NOTE:  
ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AS SHOWN ON REFRIGERATION CONDUIT ROUGH-IN PLAN

# LIGHTING FIXTURE SCHEDULE

FIXTURE TAG	FIXTURE DESCRIPTION	MANUFACTURER/ MODEL NUMBER	NO. OF LAMPS	LAMP TYPE	FIXTURE VOLTAGE	FIXTURE WATTAGE	REMARKS AND MOUNTING
A	6" RECESSED LED DOWNLIGHT	CHROMA 611 552 5" 1000LM-2700K		LED	120	15	
B	6" RECESSED LED DOWNLIGHT INTERIOR	LITHONIA LIGHTING DOM6 900L 35K 120 D06		LED	120	25	
D	6" RECESSED LED DOWNLIGHT EXTERIOR	LITHONIA LIGHTING L7XLED T24		LED	120	11	PROVIDE REALITY OPEN NARROW FLANGE (WET LOCATION) REAL6 D6 MW ESL 1000L 30K 60SC
F	EXTERIOR WALL SCONCE	WINONA LIGHTING 3704-WL-120-OA-BAL	2	CFT13W/2GX7	120	26	
G	6" X 4" RECESSED LED INTERNAL FIXTURE	PINNACLE LIGHTING EV6A-35-4-G1G-120-1C-W		LED	120	8	
H	1' X 4' LED LIGHT FIXTURE	LITHONIA LIGHTING TL4 43L FW A12 120 D46 LP835		LED	120	46	
J	2' X 4' LED LIGHT FIXTURE	LITHONIA LIGHTING 2TL4 46L FW A12 120 D50 LP835		LED	120	50	
L	FAN/LIGHT COMBO FIXTURE	NUTONE QTNLEDA	2	18W GU24	120	18	FAN WATTS - 34.9 (1AMP)
M	2' WALL MOUNT FIXTURE RESTROOM	LITHONIA LIGHTING WS 2 32 A12 120 GEB10IS	2	32W T8	120	62	
EXIT	EXIT SIGN	LITHONIA LIGHTING ECBR LED M6 UPC 784231874943		LED	120	3	

### NOTES:

- ALL LAMPS SHALL BE PROVIDED BY THE CONTRACTOR AND BE OF THE SAME MANUFACTURER, UNO.
- INCLUDE IN BASE BID ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION OF ALL FIXTURES INDICATED ON DRAWINGS.
- PROVIDE ALL REQUIRED JUNCTION BOXES FOR LIGHTING INSTALLATION.
- CONTRACTOR IS RESPONSIBLE TO VERIFY TYPE OF CONSTRUCTION AT EACH FIXTURE LOCATION AND PROVIDE THE REQUIRED TRIMS AND MOUNTING ACCESSORIES/KITS FOR APPLICATION.
- PROVIDE ALL NECESSARY SUPPORTS INDEPENDENT OF CEILING SYSTEM AS REQUIRED PER CODES AND ORDINANCES.
- RECESSED FIXTURES IN FIRE RATED CEILINGS AND AIR PLENUMS SHALL BE APPROVED FOR THE FIRE RATINGS OF THE CEILING OR SHALL BE FULLY ENCLOSED IN A FIRE RATED HOUSING OR STRUCTURE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL, INTERIOR DESIGN AND LIGHTING DESIGN DRAWINGS IN ADDITION TO OTHER TRADES PRIOR TO ROUGH-IN.
- COORDINATE ALL FIXTURES SPECIFIED BY ARCHITECT, INTERIOR DESIGNER OR LIGHTING DESIGNER PRIOR TO BID. ALL FIXTURES SPECIFIED IN SCHEDULE BY OTHERS SHALL COMPLY WITH THE VOLTAGE AND WATTAGE LISTED IN SCHEDULE.
- ALL T8 LINEAR FLUORESCENT LAMPS AND BALLASTS SHALL BE EQUAL TO OSRAM QUICKTRONIC PSX PROGRAMMED RAPID START BALLASTS WITH THD<10% AND OCTRON ECO XPS LAMPS, UNLESS NOTED OTHERWISE.
- VERIFY EXIT SIGN LOCATIONS AND DIRECTIONAL ARROWS WITH ARCHITECT'S FINAL EGRESS PLAN AND AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING EQUIPMENT. RECORD AND CHANGES ON RECORD DRAWINGS.
- EXIT SIGNS SHALL BE PROVIDED WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY PACK, SOLID STATE STARTING UNIT AND SELF DIAGNOSTICS.
- WHERE A BATTERY BACKUP BALLAST IS INDICATED, PROVIDE TEST SWITCH INTEGRAL TO FIXTURE HOUSING, REMOTE TEST SWITCHES ARE NOT ACCEPTABLE.
- PROVIDE (0) ZERO DEGREE BALLAST FOR ALL EXTERIOR FLUORESCENT FIXTURES.
- VERIFY ALL FIXTURE COLORS AND FINISHES WITH ARCHITECT, INTERIOR DESIGNER AND LIGHTING DESIGNER PRIOR TO SUBMITTING BID.
- ALL 3 LAMP FLUORESCENT FIXTURES TO HAVE (1) TWO LAMP BALLAST AND (1) ONE LAMP BALLAST. ALL 4 LAMP FLUORESCENT FIXTURES TO HAVE (2) TWO LAMP BALLAST, UNO.
- PROVIDE SEPARATE NEUTRAL CONDUCTORS TO EACH DIMMED CIRCUIT SWITCH LEG. DO NOT SHARE NEUTRAL CONDUCTORS IN DIMMED CIRCUITS.
- PROVIDE AN UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS AND EMERGENCY BATTERY BALLASTS.

DATE: 2/12/2013

# LIGHTING CONTROL PANEL

CIRCUIT NUMBER	RELAY NUMBER	CONTROL TYPE	LOAD (VA)	DESCRIPTION
KB-31	1	PC/TC	557	OUTTER/EXTERIOR LTG
KB-33	2	TC	1442	N. DINNING AREA LTG
KB-35	3	TC	700	KITCHEN AREA LTG
KB-37	4	TC	350	S. DINNING AREA LTG
5				
6				
7				
8				

### NOTES:

DATE: 2/12/2013

TEST FOR ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS POWERED BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONALLY REQUIRED EMERGENCY SYSTEMS SHALL BE CONDUCTED IN THE PRESENCE OF THE BUILDING INSPECTION STAFF TO ENSURE COMPLIANCE. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COST ASSOCIATED WITH EITHER PRE-HOURS OR AFTER-HOURS SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH SYSTEMS SHALL OCCUR PRIOR TO THE INSURANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OR FINAL APPROVAL OF THE PROJECT.

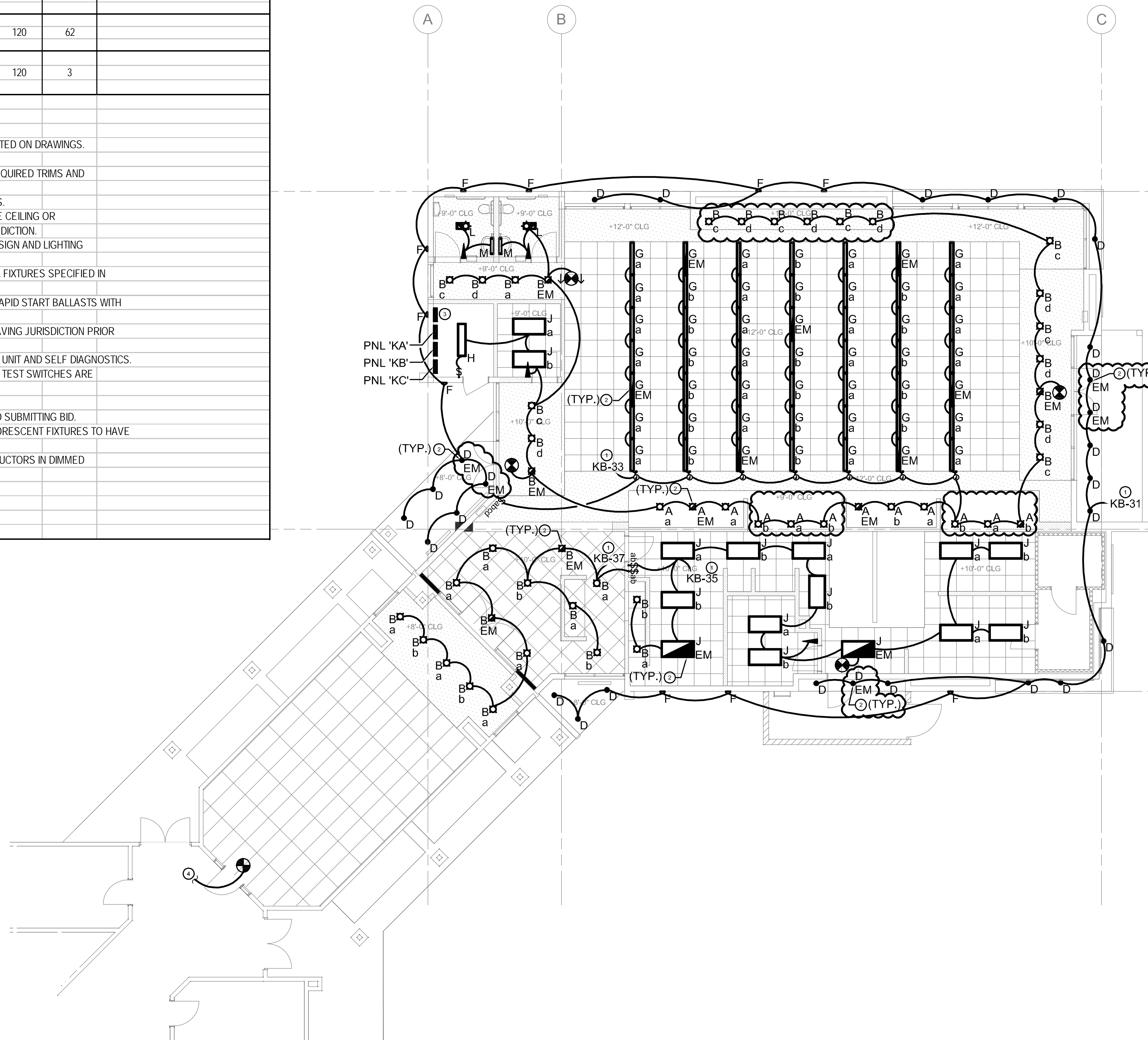
APPROVED DATE: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_

### GENERAL NOTES

- BRANCH CIRCUITS TO BE ROUTED THROUGH LIGHTING CONTROL PANEL. REFER TO SCHEDULE ON SHEET E-0.3 FOR ADDITIONAL INFORMATION.

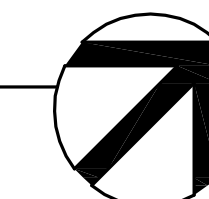
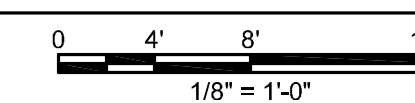
### KEY NOTES

- ROUTE CIRCUITS THRU LIGHTING CONTROL PANEL.
- LIGHTS SHOWN AS EMERGENCY ARE UNSWITCHED NIGHT LIGHTS. PROVIDE WITH 1400 LUMEN INVERTER BALLAST.
- LIGHTING CONTROL PANEL.
- ROUTE TO NEAREST EMERGENCY CIRCUIT.



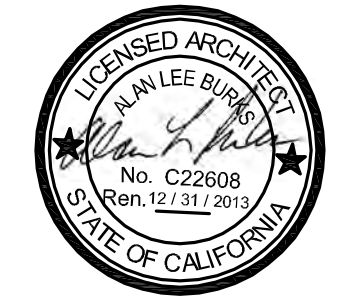
# 1 ELECTRICAL LIGHTING PLAN

SCALE: 1/8" = 1'-0"



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HOUSING SERVICES DINING HALL  
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LOS ANGELES, CA 90032

NO.	DESCRIPTION	DATE
	BLDG DEPT SUBMITTAL	12-14-2012
1	PLAN CHECK SET	1-4-2013
2	REVISIONS	1-4-2013
3	PEER REVIEW	1-16-2013
4	BID SET	2-14-2013

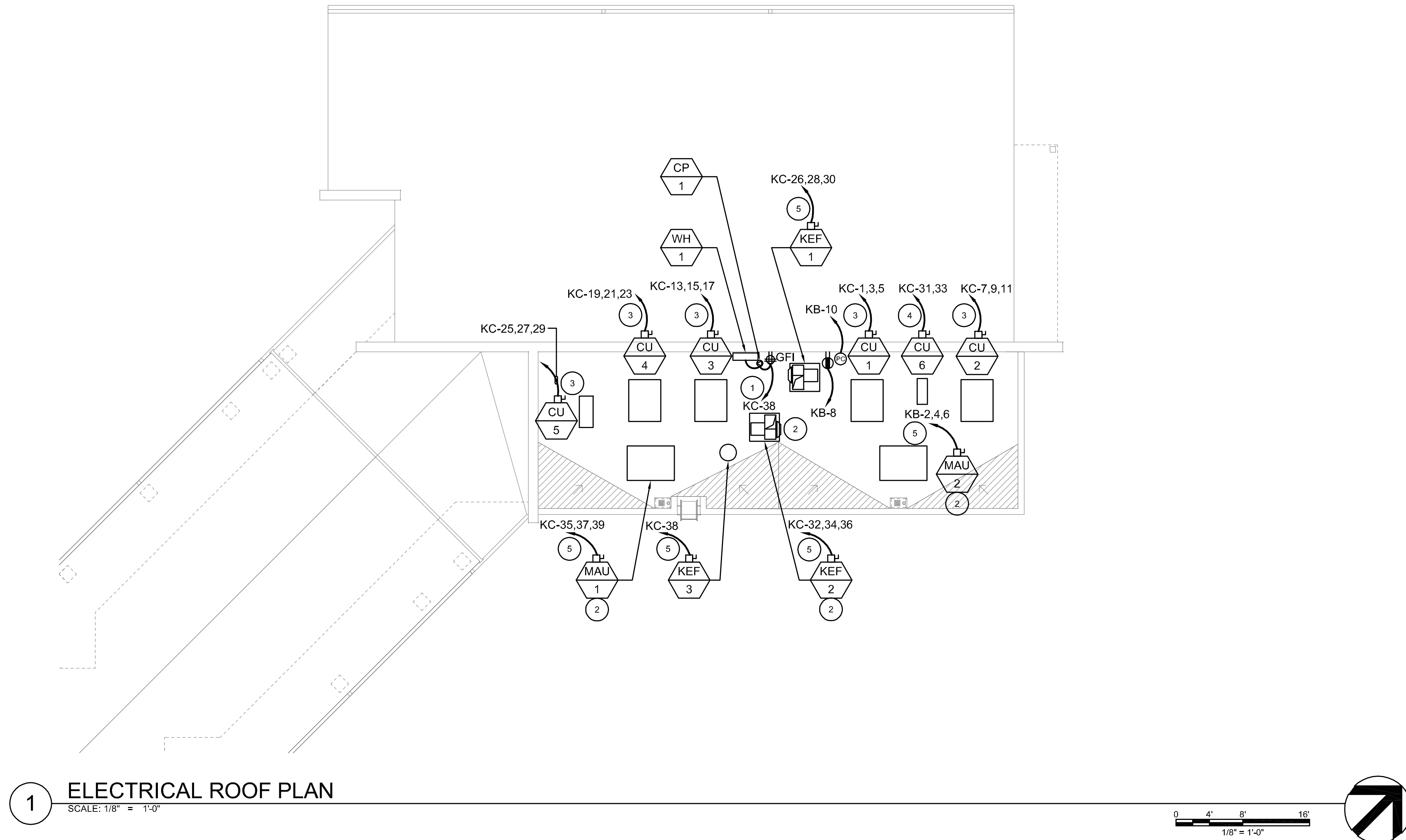
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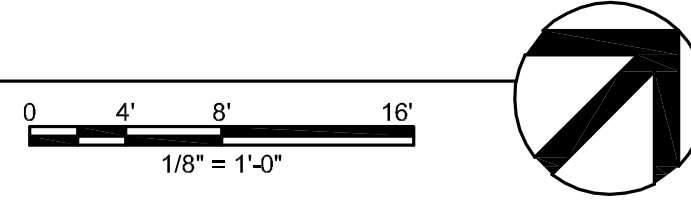
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**1 ELECTRICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**GENERAL NOTES**

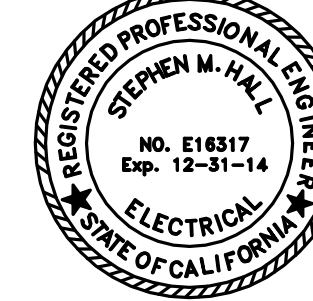
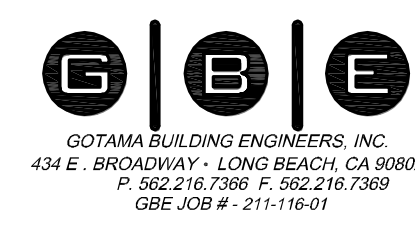
1. -

**KEY NOTES**

- 1 PHOTOCELL LOCATION
- 2 KITCHEN EXHAUST FAN INTERLOCKED WITH MAKE UP AIR UNIT. SEE ELECTRICAL ENLARGED POWER PLAN ON SHEET E-2.1 FOR SWITCH LOCATION.
- 3 3#8, 1#10 GND 3/4"C.
- 4 2#10, 1#10 GND 3/4"C.
- 5 3#12, 1#12 GND 3/4"C.



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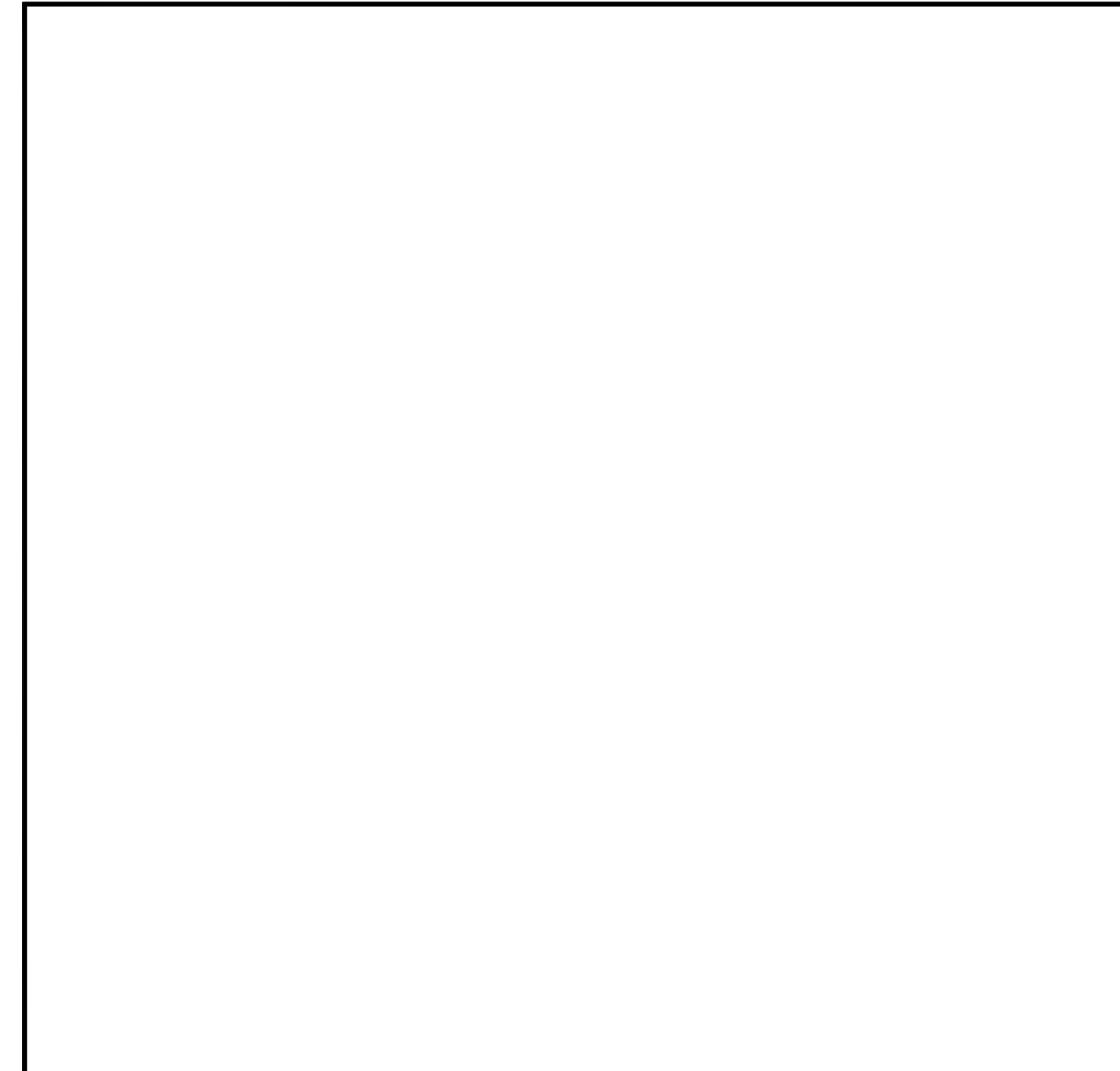
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1	PLAN CHECK SET	1-4-2013
2	REVISIONS	1-4-2013
3	PEER REVIEW	1-16-2013
4	BID SET	2-14-2013

**ELECTRICAL ROOF PLAN**

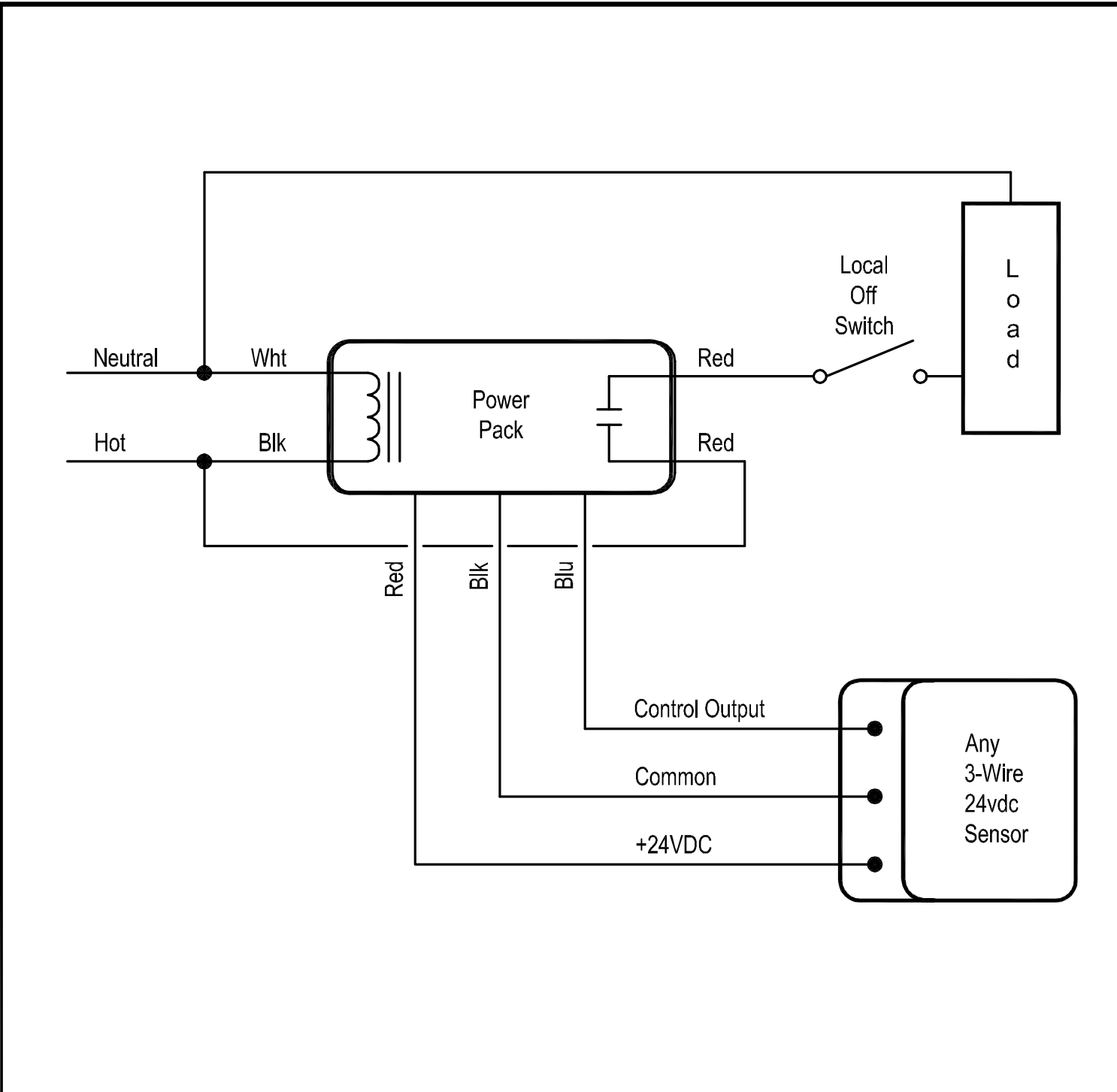
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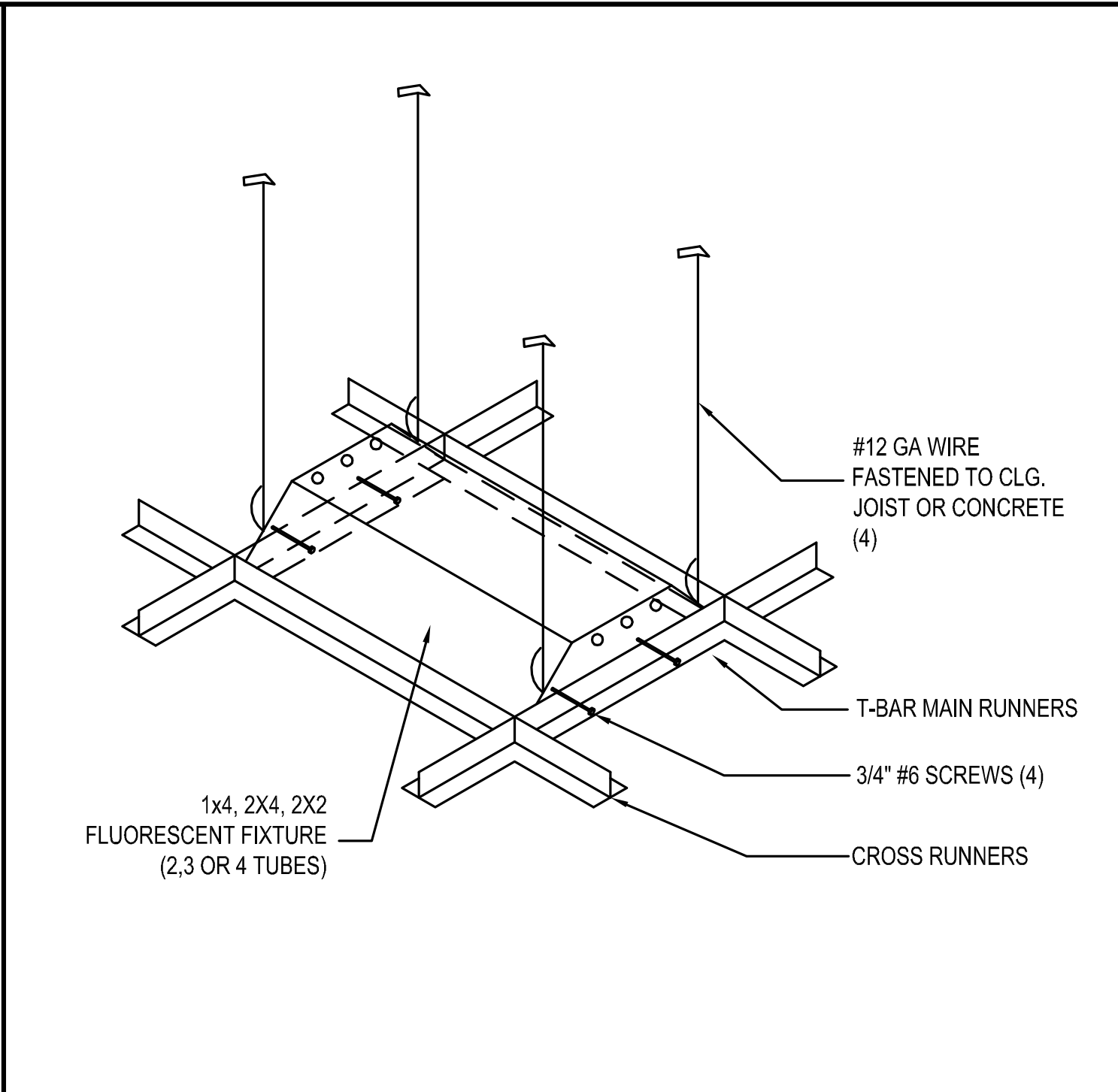
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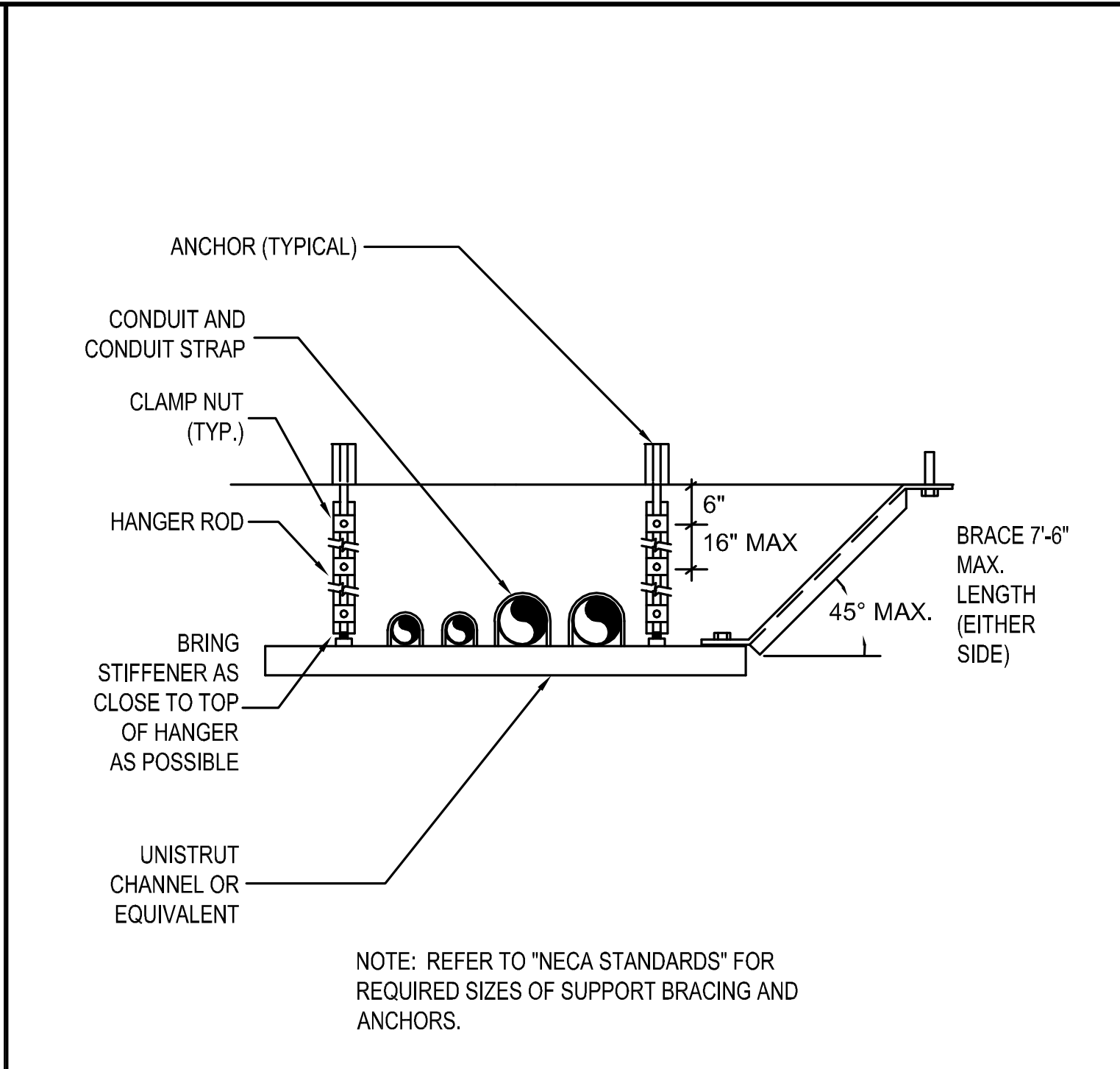
NOT USED SCALE NTS 10



CLG.MOUNTED OCCUPANCY SENSOR SCALE NTS 7



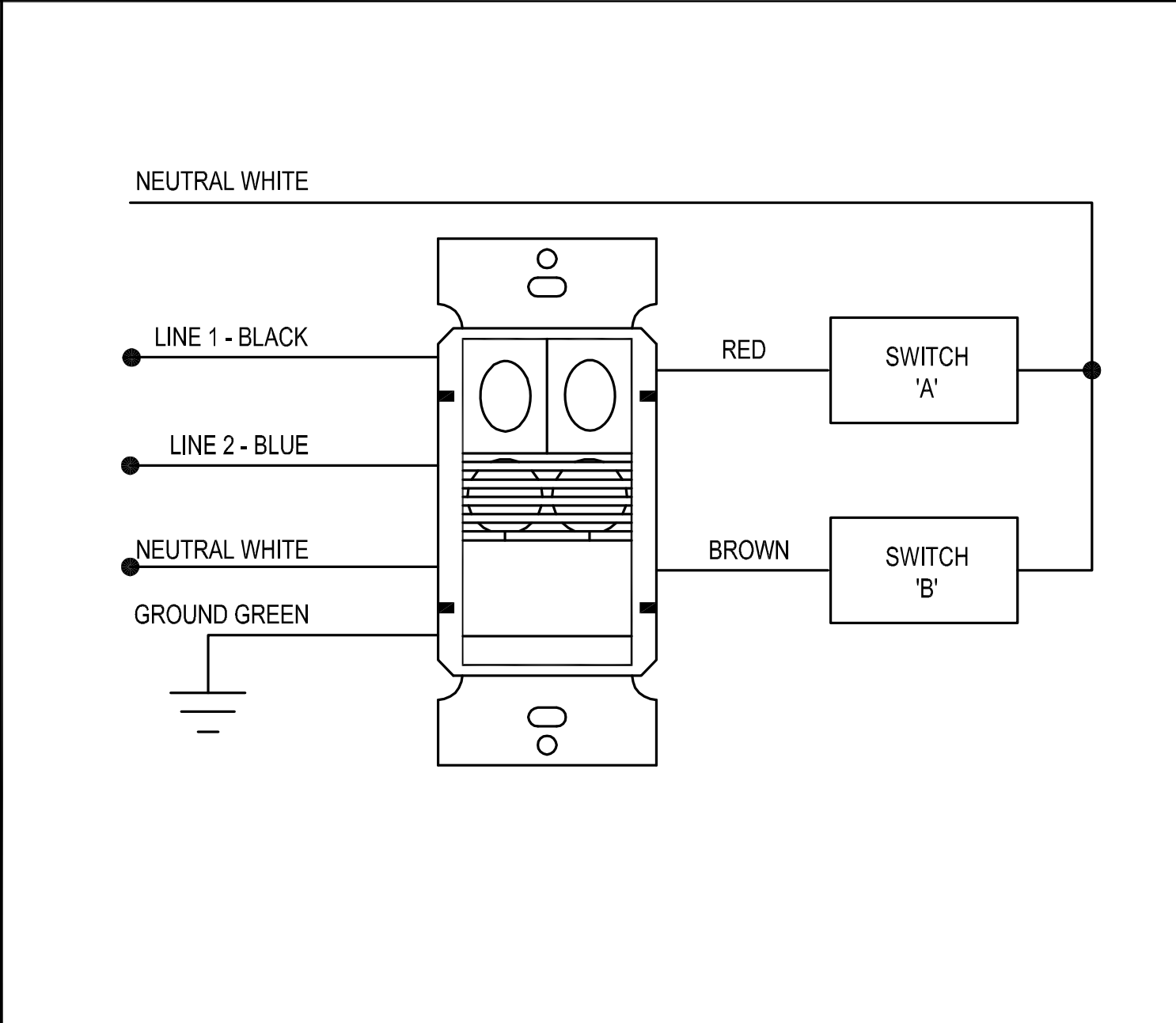
LIGHTING FIXTURE MOUNTING DETAIL SCALE NTS 4



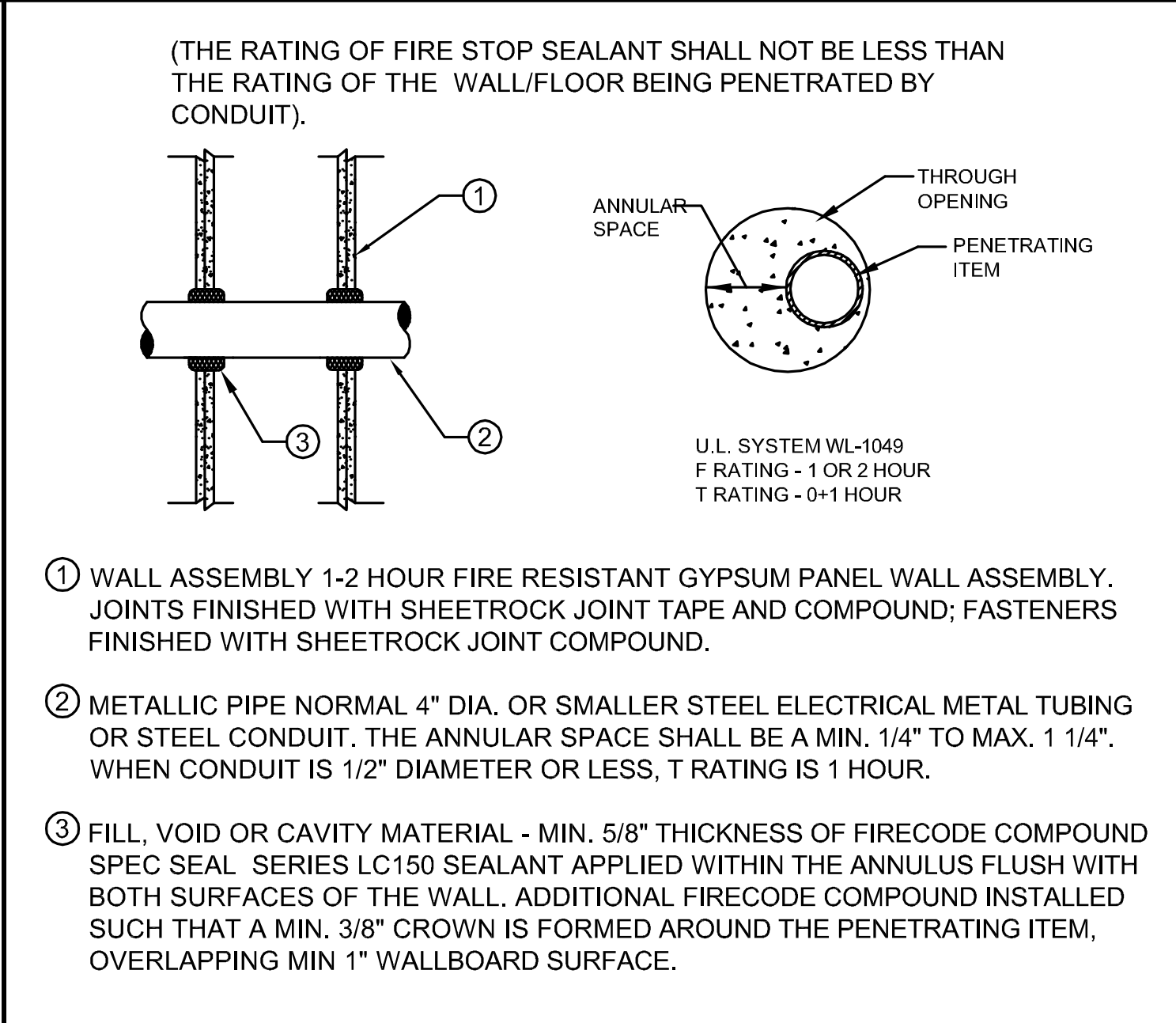
UNISTRUT CHANNEL SUPPORT SCALE NTS 1



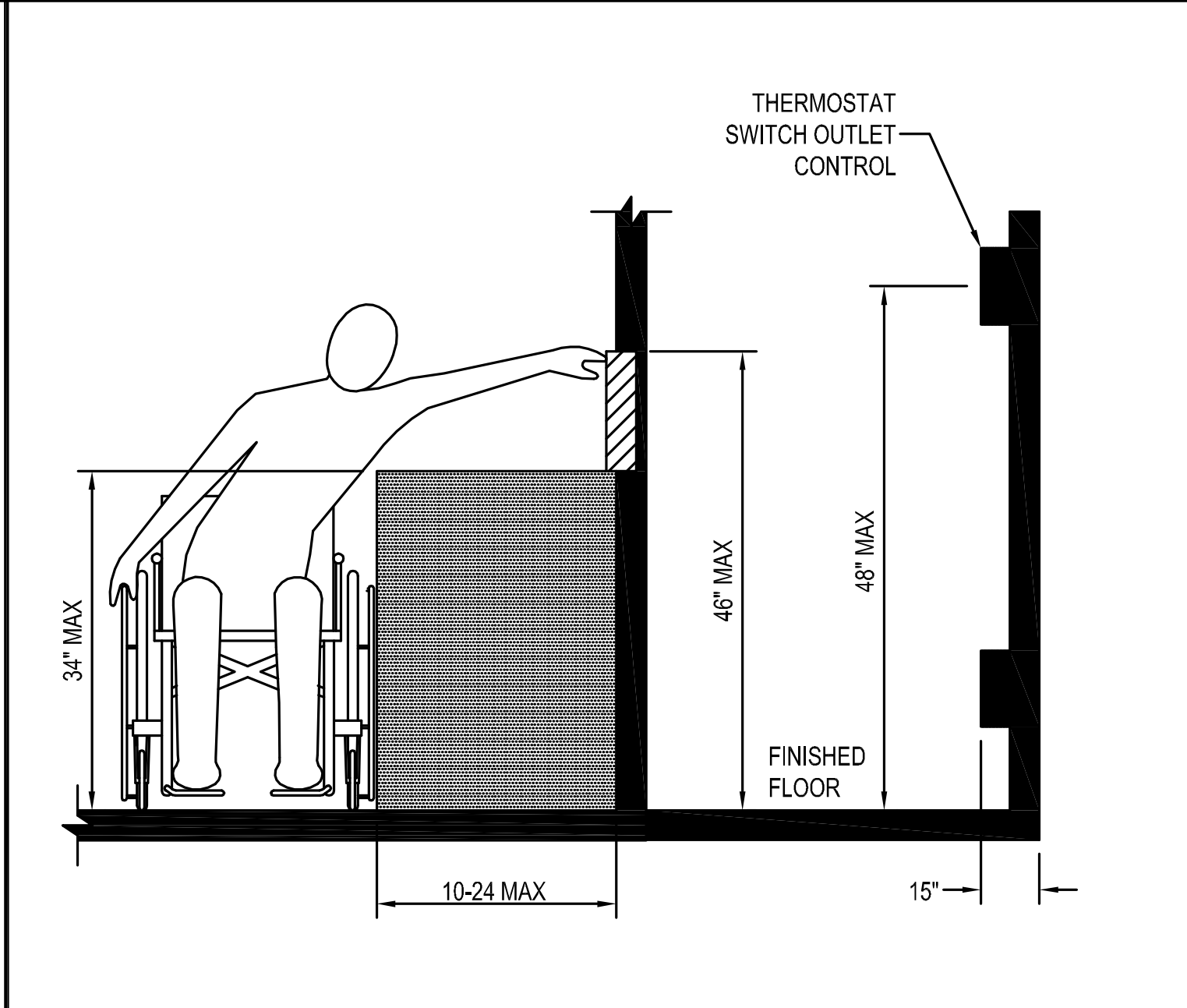
NOT USED SCALE NTS 11



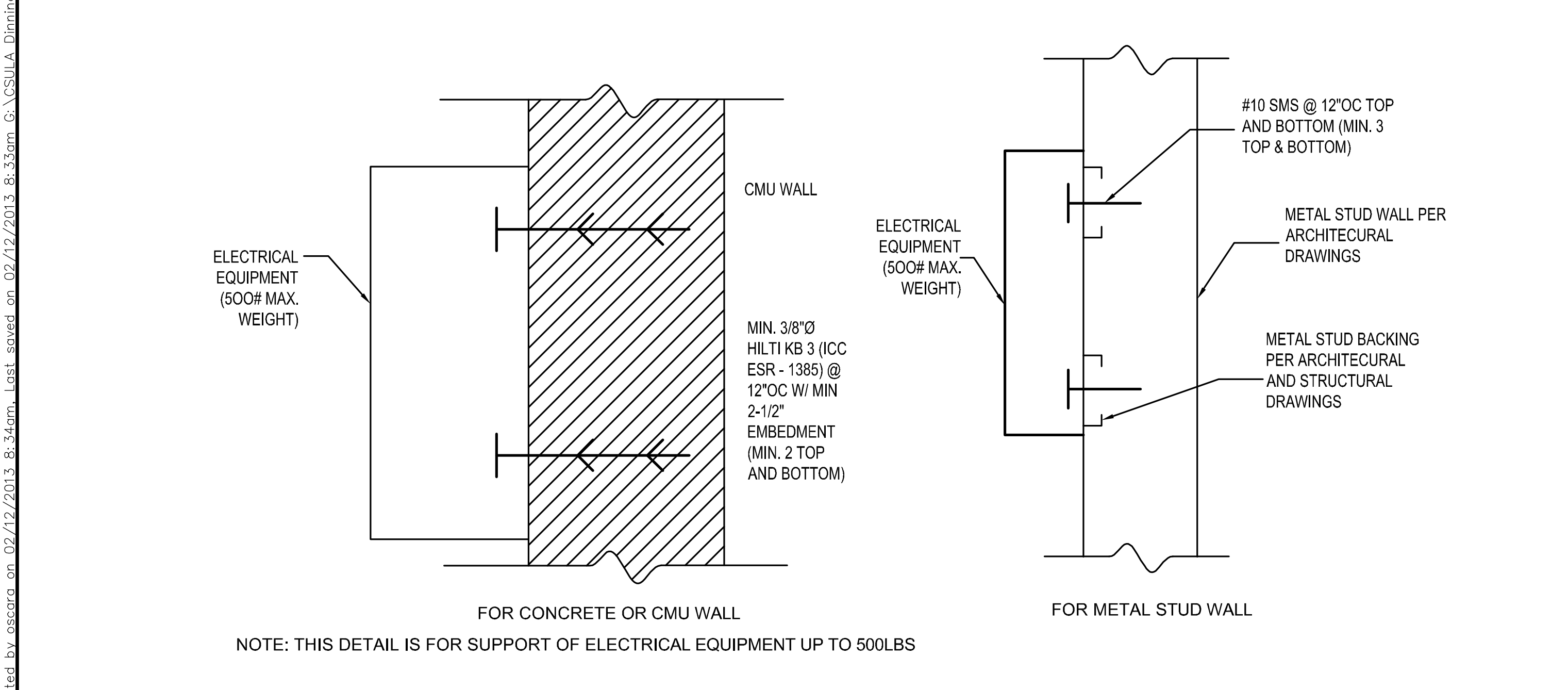
SWITCH OCCUPANCY SENSOR SCALE NTS 8



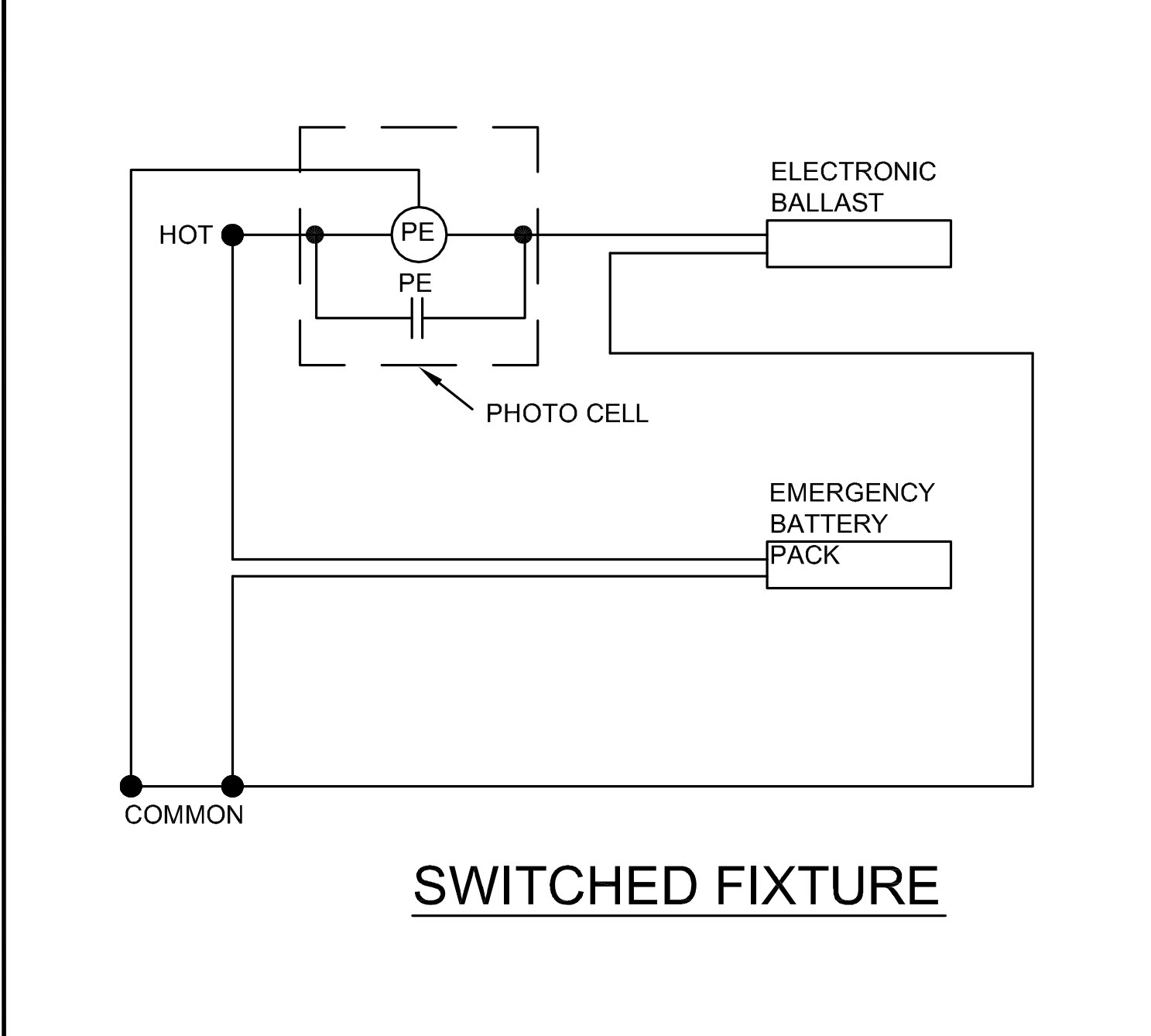
THROUGH PENETRATION FIRE STOP DETAIL SCALE NTS 5



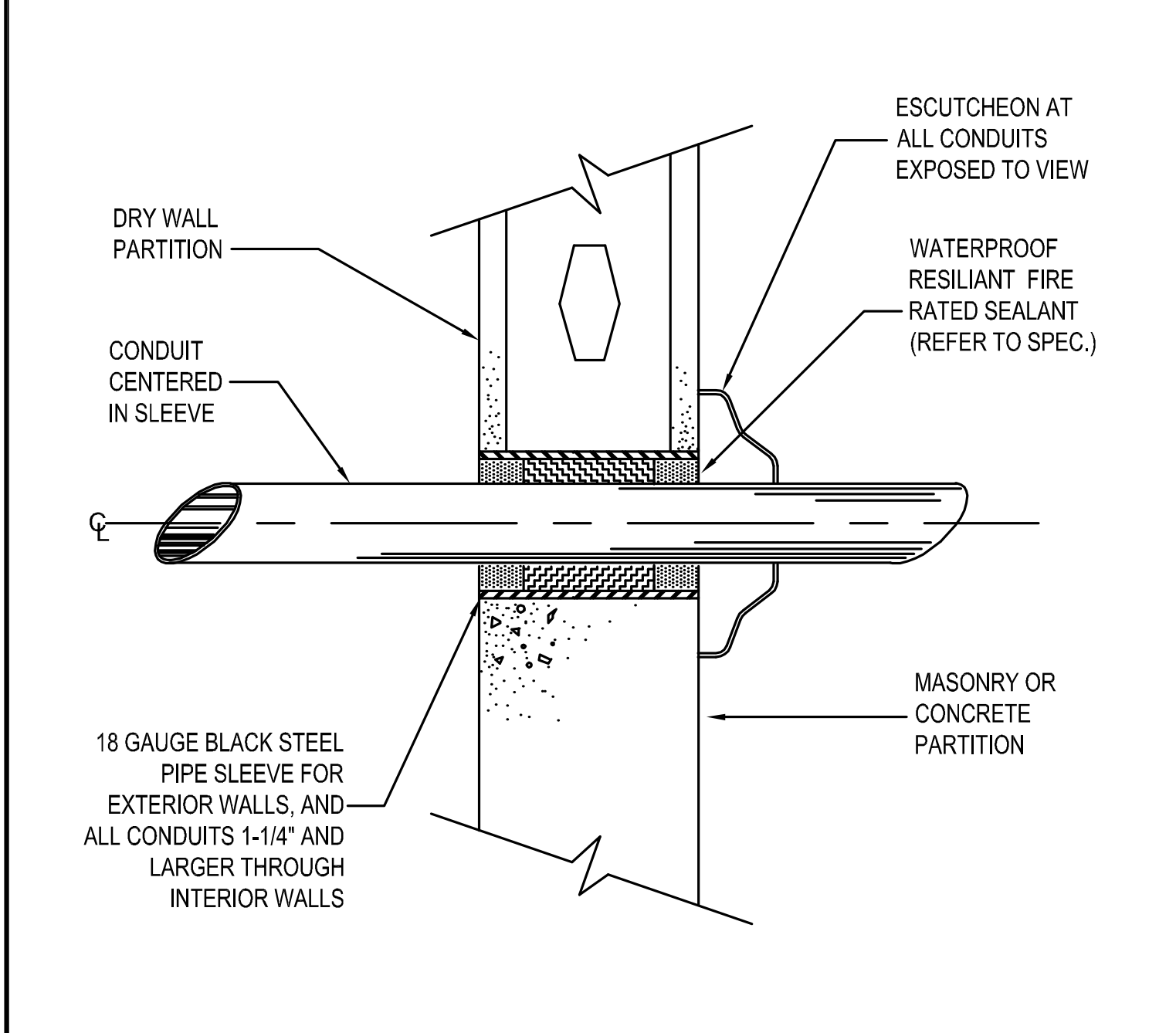
MTG. OVER OBSTRUCTION DIAGRAM SCALE NTS 2



ELECTRICAL EQUIPMENT ANCHORAGE DETAIL SCALE NTS 9

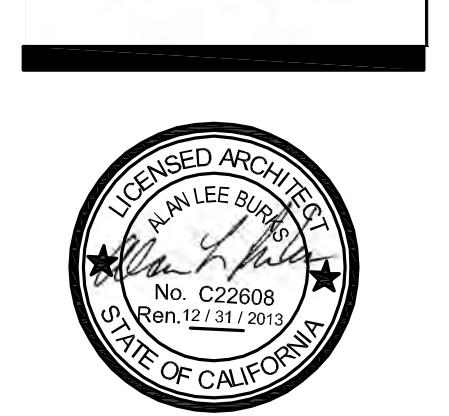


EMERGENCY WIRING DIAGRAM SCALE NTS 6



CONDUIT THROUGH INT./EXT. WALL SCALE NTS 3

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GBE JOB # - 211-116-01



HOUSING SERVICES DINING HALL  
5151 STATE UNIVERSITY DRIVE  
LOS ANGELES, CA 90032

NO.	DESCRIPTION	DATE
1	BLDG DEPT SUBMITTAL	12-14-2012
2	PLAN CHECK SET	1-4-2013
3	REVISIONS	1-4-2013
4	PEER REVIEW	1-16-2013
5	BID SET	2-14-2013

**ELECTRICAL**  
DETAILS

12-13-2012 2010.03  
FF CSULA CDS  
10102012.pn  
**E-5.0**