# ELECTRICAL PLAN CONVENTIONS

DETAIL CALL-OUT/REFERENCE
- (#/SHEET) — DETAIL NO. / PLAN REFERENCE NO.

REFERENCE NOTE CALL-OUT
- (#) — NUMBERED SHEET NOTE
- A — LUMINAIRE DESIGNATION
- (o) — Ta,b — BRANCH CIRCUIT, SWITCHLEG(S)

FEEDER DESIGNATION
- (F#) — FEEDER DESIGNATION NO. REFERS TO FEEDER SCHEDULE INCLUDED ON THE SINGLE LINE DIAGRAM. SCHEDULE NOTES FEEDER SPECIFICATION, CONDUIT SPECIFICATION, AND ROUTING.
- 1 — BRANCH CIRCUIT DESIGNATION

EQUIPMENT DESIGNATION
- (M#) — EQUIPMENT DESIGNATION: "M" - MECHANICAL
- (P#) — "P" - PLUMBING
- (FS#) — "FS" - FOOD SERVICE

# ELECTRICAL ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| - A - | | GC | GENERAL CONTRACTOR | O&M | OPERATION & MAINTENANCE |
| A | AMPERE | GFCI | GROUND FAULT CIRCUIT INTERRUPTER | OSA | OFFICE OF THE STATE ARCHITECT |
| ABV | ABOVE | GFI | GROUND FAULT CIRCUIT INTERRUPTER | OSHPD | OFFICE of STATEWIDE HEALTH |
| AC | ALTERNATING CURRENT | GND | GROUND | | PLANNING & DEVELOPMENT |
| ADJ | ADJACENT | GRS | GALVANIZED RIGID STEEL | OVLD | OVERLOAD |
| AFS | FUSED SWITCH AMPERAGE RATING | GWS | GANG WITH SWITCH | - P - | |
| AFF | ABOVE FINISH FLOOR | - H - | | P | POLE |
| AFG | ABOVE FINISH GRADE | ht | HEIGHT | PA | PUBLIC ADDRESS |
| AHJ | AUTHORITY HAVING JURISDICTION | HID | HIGH INTENSITY DISCHARGE | PB | PULLBOX |
| AIC | AMPERES INTERRUPTING CAPACITY | HO | HIGH OUTPUT | PC | PHOTOCELL |
| AL | ALUMINUM | HOA | HAND-OFF-AUTO | PC | PLUMBING CONTRACTOR |
| APCD | AIR POLLUTION CONTROL DISTRICT | hp | HORSEPOWER | ph | PHASE |
| ATS | AUTOMATIC TRANSFER SWITCH | HPF | HIGH POWER FACTOR | PNL | PANEL |
| AV | AUDIBLE/AUDIO VISUAL | HPS | HIGH PRESSURE SODIUM | POC | POINT OF CONNECTION |
| AWG | AMERICAN WIRE GAGE | - I - | | - R - | |
| - B - | | ID | IDENTIFICATION | (R) | RELOCATE(D) |
| BFG | BELOW FINISH GRADE BFG | IG | ISOLATED GROUND | RECEPT | RECEPTACLE |
| BLDG | BUILDING | IBC | INTERNATIONAL BUILDING CODE | REQ'D | REQUIRED |
| - C - | | - J - | | RLA | RUNNING/RATED LOAD AMPS |
| C | CONDUIT | J-BOX | JUNCTION BOX | RM | ROOM |
| CA | CALIFORNIA | - K - | | RMC | RIGID METAL CONDUIT |
| CATV | CABLE TELEVISION | K | KILO | RMV | REMOVE |
| CB | CIRCUIT BREAKER | kVA | KILOVOLTAMPS | RPLC | REPLACE |
| CBC | CA BUILDING CODE | kW | KILOWATT | RS | RAPID START |
| CEC | CA ELECTRICAL CODE | - L - | | - S - | |
| CF | COMPACT FLUORESCENT | LC | LIGHTING CONTROL | SC | SIGNAL CABINET |
| CFC | CA FIRE CODE | LRA | LOCKED ROTOR AMPS | SCC | SHORT CKT CURRENT |
| CLG | CEILING | LS | LIFE SAFETY BRANCH | SFM | STATE FIRE MARSHAL |
| CL | CENTER LINE | LT | LIGHT | SHT | SHEET |
| CKT | CIRCUIT | LTG | LIGHTING | SL | SWITCH LEG |
| CNTR | CONTRACTOR | LV | LOW VOLTAGE | SPEC | SPECIFICATION |
| C.O. | CONDUIT ONLY (W/PULLROPE) | - M - | | SPST | SINGLE POLE SINGLE THROW SQ |
| CR | CRITICAL BRANCH | MC | MECHANICAL CONTRACTOR | SQ | SQUARE |
| CSFM | CALIFORNIA SFM | MCA | MINIMUM CKT AMPS | SURF | SURFACE SERVICE |
| CT | CURRENT TRANSFORMER | MCB | MAIN CIRCUIT BREAKER | SVC | SERVICE |
| Cu | COPPER | MECH | MECHANICAL | SW | SWITCH |
| - D - | | MFR | MANUFACTURER | - T - | |
| (D) | DEMOLITION / DEMOLISH | MFS | MAIN FUSIBLE SWITCH | T | TRANSFORMER |
| D | DEPTH | MH | METAL HALIDE | TBR | TO BE REMOVED |
| DSA | DEPARTMENT OF THE STATE ARCHITECT | MLO | MAIN LUGS ONLY | TC | TIME CLOCK |
| DC | DIRECT CURRENT | MOCP | MAXIMUM OCP | TEL | TELEPHONE |
| DIA | DIAMETER | MPOE | MAIN POINT OF ENTRY | TS | TIME SWITCH |
| DPST | DOUBLE POLE SINGLE THROW | MSB | MAIN SWITCHBOARD | TSP | TWISTED SHIELDED PAIR |
| - E - | | MT | MOUNT | TTB | TELEPHONE TERMINAL BOARD |
| EM | EMERGENCY | MT HT | MOUNTING HEIGHT | TTC | TELEPHONE TERMINAL CABINET |
| EMT | ELECTRIC METALLIC TUBING | MTS | MANUAL TRANSFER SWITCH | TX | TRANSFORMER TYP |
| (E) | EXISTING | MTTB | MAIN TELEPHONE TERMINAL BOARD | TYP | TYPICAL |
| EC | ELECTRICAL CONTRACTOR | MTTC | MAIN TELEPHONE TERMINAL CABINET | - U - | |
| ELEC | ELECTRICAL | - N - | | UC | UNDERCABINET OR UNDERCOUNTER |
| EOL | END OF LINE RESISTOR | N | NEUTRAL CONDUCTOR | UG | UNDERGROUND |
| EOR | ENGINEER OF RECORD | (N) | NEW | UGPS | UNDERGROUND PULL SECTION |
| (EXN) | EXISTING IN NEW LOCATION | NOR | NEMA 3R | UL | UNDERWRITERS LABORATORIES |
| (EXR) | EXISTING TO BE RELOCATED | NATL | NATIONAL | UON | UNLESS OTHERWISE NOTED |
| | | NC | NORMALLY CLOSED | USA | UG SVC ALERT |
| - F - | | NEC | NATIONAL ELECTRICAL CODE | - V - | |
| FACP | FIRE ALARM CONTROL PANEL | NEMA | NATL ELEC MANUFACTURER'S ASSOC | V | VOLT |
| FAT | FIRE ALARM TERMINAL | NIC | NOT IN CONTRACT | VA | VOLT AMPERES |
| FBO | FURNISHED BY OTHERS | NL | NIGHT LIGHT | VAC | VOLT ALTERNATING CURRENT |
| FLA | FULL LOAD AMPS | NO | NORMALLY OPEN, NUMBER | VOLT | VOLTAGE |
| FLR | FLOOR | NPF | NORMAL POWER FACTOR | VR | VANDAL-RESISTANT |
| FLUOR | FLUORESCENT | NTS | NOT TO SCALE | - W - | |
| FT | FUSES TYP | - O - | | W | WIDTH OR WATT |
| FS | FUSIBLE SWITCH | OC | ON CENTER | WEU | WHILE-IN-USE |
| FVNR | FULL VOLTAGE NON-REVERSING | OCP | OVERCURRENT PROTECTION | WP | WEATHERPROOF |
| - G - | | OD | OUTSIDE DIAMETER | - X - | |
| G | GROUNDING CONDUCTOR | OH | OVERHEAD | XFMR | TRANSFORMER |

# ELECTRICAL SYMBOLS

LIGHTING
- (o) or (O) — CEILING MOUNT LUMINAIRE
- WALL MOUNT LUMINAIRE
- PENDANT MOUNT LUMINAIRE
- RECESSED DOWNLIGHT
- RECESSED WALL WASH DOWNLIGHT
- RECESSED TROFFER
- RECESSED PROCEDURE LIGHT
- RECESSED STEP LIGHT
- STRIP LIGHT
- LUMINAIRE WITH EMERGENCY BATTERY PACK OR EMERGENCY BRANCH CIRCUIT CONNECTION
- TRACK LIGHT
- DIRECTIONAL FLOOD LIGHT
- EMERGENCY LUMINAIRE
- AREA LIGHT (EXTERIOR)
- BOLLARD (EXTERIOR)
- UP LIGHT (FLUSH IN GRADE)
- DIRECTIONAL GROUND MOUNTED LIGHT
- EXIT SIGN (CHEVRON DIRECTIONS NOTED)
- EXIT SIGN (WALL MOUNTED)

RACEWAYS & CONDUCTORS
- UNDERGROUND CONDUIT
- CONDUIT (CONCEALED IN STRUCTURE)
- OVERHEAD CONDUCTORS (NOT IN CONDUIT)
- WIREMOLD RACEWAY
- HOMERUN CONDUIT. CROSS MARKS DENOTE NUMBER OF CONDUCTORS - EXAMPLE: 3-HOT AND 1-NEUTRAL, GROUND CONDUCTOR NOT SHOWN.
- CONDUIT TURNS UP (TOWARDS VIEWER)
- CONDUIT TURNS DOWN (AWAY FROM VIEWER)
- CONDUIT STUB (NO MARKER)
- CONDUIT STUB (WITH MARKER)
- CONDUIT SEAL
- CONDUIT CONTINUATION

SWITCHES
- $ — SPST
- $2 — DPDT
- $3 — 3-WAY
- $4 — 4-WAY
- $D — STAND ALONE DIMMER
- $T — TIMER SWITCH
- $P — PILOT LIGHT
- $K — KEY OPERATED
- $* — DEVICE MOUNTED ABOVE COUNTER SPLASH
- (OS) — OCCUPANCY SENSOR
- (PC) — PHOTOSENSOR/PHOTOCELL
- (PP) — POWER PACK
- (LV#) — LOW VOLTAGE SWITCHBANK

FIRE ALARM
- FIRE ALARM CONTROL PANEL
- (H) — HORN
- (V) — VISUAL
- (AV) — AUDIBLE-VISUAL
- (F) — FLOW SWITCH
- (T) — TAMPER SWITCH
- (P) — PULL STATION
- (B) — BELL
- (SD) — SMOKE DETECTOR
- (SD)D — DUCT MOUNTED SMOKE DETECTOR
- (H) — HEAT DETECTOR
- (EOL)R — END OF LINE RESISTOR
- (FSD) — FIRE SMOKE DAMPER

MISCELLANEOUS
- (C) — CHIME
- (NC) — NURSE CALL

POWER & COMMUNICATION
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- HALF-SWITCHED DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE - THREE PHASE
- SPECIAL PURPOSE RECEPTACLE - SINGLE PHASE
- DEVICE MOUNTED FLUSH IN FLOOR
- DEVICE MOUNTED AT PEDESTAL
- DEVICE MOUNTED ABOVE COUNTER SPLASH
- JUNCTION BOX
- TELEPHONE DEVICE
- COMMUNICATIONS DEVICE (DATA/TEL)
- (TV) — TELEVISION OUTLET
- DISCONNECT SWITCH (FUSED/UN-FUSED)
- COMBINATION MOTOR STARTER/DISCONNECT
- (CCD) — CORD DROP RECEPTACLE
- MOTOR
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- FUSE
- DRAW-OUT STUBS
- GROUND
- PHASE
- FLUSH MOUNT PANEL
- SURFACE MOUNT PANEL
- SURFACE PANEL WITH WORKING CLEARANCE NOTED
- (XFMR) — DRY TYPE TRANSFORMER (RATING NOTED)
- THREE PHASE DELTA CONNECTION, NEUTRAL GROUNDED
- THREE PHASE WYE CONNECTION
- RELAY
- (M) — UTILITY METER
- (M) — UTILITY METER WITH CTS

# ADA MOUNTING HEIGHTS

| DEVICE | MOUNTING HEIGHT | NOTES |
|---|---|---|
| PROTRUDING OBJECT (WALL MOUNTED) | LEADING EDGE BETWEEN 27" AND 80" AFF. | OBJECT SHALL NOT PROTRUDE MORE THAN 4" INTO THE CIRCULATION PATH. |
| RECEPTACLE, COMMUNICATION, TELEPHONE, CATV, ETC. | +15" AFF TO THE BOTTOM OF THE OUTLET BOX. | APPLICABLE TO RECEPTACLES (30 AMPS AND LESS), CONTROLS, AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM PER CBC 11B-308.1.1 (SWITCHES) AND 11B-308.1.2 (RECEPTACLES). OUTLET(S) SHALL BE INSTALLED NO LESS THAN +15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM. |
| LUMINAIRE SWITCHES | +48" AFF TO THE TOP OF THE OUTLET BOX. | |
| DEVICES ABOVE A 20"-25" DEEP COUNTER/OBSTRUCTION | +46" (MAX.) TO THE TOP OF THE OUTLET BOX (SIDE APPROACH). +44" (MAX.) TO THE TOP OF THE OUTLET BOX (FORWARD APPROACH). | COORDINATE WITH ARCHITECTURAL PLANS. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH THE RECEPTACLE/DEVICE. |
| FIRE ALARM PULL STATIONS | BETWEEN +42" - 48" MAX TO THE TOP OF THE ACTIVATING HANDLE. | |
| OUTLET BOX FOR THERMOSTAT (BY OTHERS). | BETWEEN +42" - 48" MAX TO THE TOP OF THE OUTLET BOX. | VERIFY WITH MECHANICAL PRIOR TO ROUGH IN. |

NOTES
1) DEVICES SHALL MOUNT PER MATRIX ABOVE UNLESS OTHERWISE NOTED PER PLANS.
2) PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT CONNECTION LOCATIONS WITH THE ARCHITECT OR OWNER. WHERE DEVICES ARE LOCATED ABOVE COUNTERS AND SHELVING, SPECIAL ATTENTION SHALL BE TO ENSURE OUTLETS AND COVER PLATES DO NOT CONFLICT WITH EDGES OF COUNTER SPLASH, SHELVING TRIM, WAINSCOTTING, ETC. CONSULT ARCHITECTURAL DETAILS AND INTERIOR ELEVATIONS, AS THEY SHALL GOVERN WHERE THERE IS CONFLICT WITH ELECTRICAL PLANS.
3) EXCEPTIONS: APPLIANCES (I.E. KITCHEN RANGES, DISHWASHERS, ETC.) WHICH DO NOT HAVE CONTROLS LOCATED ON APPLIANCE.

# GENERAL POWER & COMMUNICATION PLAN NOTES

GENERAL
1. DEVICE AND EQUIPMENT FINAL LOCATION SHALL BE FIELD VERIFIED WITH ALL TRADES DURING ROUGH-IN. OBTAIN ACCEPTANCE OF EXACT LOCATIONS WITH ARCHITECT/OWNER REPRESENTATIVES TO AVOID CONFLICT WITH FURNITURE, CASEWORK, ETC.
2. ELECTRICAL AND COMMUNICATION OUTLETS SHOWN IN THE SAME LOCATION SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS. IN CONCRETE BLOCK WALLS MAINTAIN A MINIMUM OF 6" OFFSET. DEVICE BOXES SHALL BE LOCATED IN SEPARATE BLOCK CELLS IN MEDAL STUD AND WOOD STUD WALLS. PROVIDE AT LEAST 6" CLEAR HORIZONTAL SPACE BETWEEN DEVICE BOXES.
3. GUEST ROOM OUTLETS SHALL BE PROVIDED WITH FIRE STOP AND/OR SOUND LISTED PUTTY PADS AS OUTLINED IN DIVISION 26 SPECIFICATIONS.

DWELLING UNITS
4. TAMPER PROOF RECEPTACLES SHALL BE UTILIZED IN DWELLING UNITS, GUEST ROOMS, GUEST SUITES, AND CHILD CARE AREAS AS OUTLINED IN CEC 406.12.
5. AFCI PROTECTION SHALL BE PROVIDED FOR ALL 120V, SINGLE PHASE, 15 AND 20 AMP RATED BRANCH CIRCUITS SERVING KITCHENS, DINING ROOMS, FAMILY ROOMS, LIVING ROOMS,, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR.

RECEPTACLES
6. RECEPTACLES INSTALLED IN EXTERIOR LOCATIONS SHALL BE PROVIDED WITH A WEATHERPROOF WHILE-IN-USE COVER (LOCKING AS REQUIRED PER PLANS).

WIRING
7. SEPARATE NEUTRAL CONDUCTORS SHALL BE INSTALLED FOR EACH BRANCH CIRCUIT AS INDICATED PER CONSTRUCTION DOCUMENTS.
8. FEEDERS AND BRANCH CIRCUITS SHALL CARRY A GROUNDING CONDUCTOR, SHALL BE INSTALLED IN EACH CONDUIT/RACEWAY AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM. GROUNDING CONDUCTORS SHALL BE SIZED PER THE CONSTRUCTION DOCUMENTS OR CEC REQUIREMENTS, WHICHEVER S GREATER. MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN CONDUIT AND RACEWAYS. GROUND CONDUCTORS SHALL BE SIZED AS INDICATED IN CEC TABLE 250.122, UNLESS OTHERWISE NOTED ON THE DRAWINGS, IT SHALL BE PERMITTED TO UTILIZE A SINGLE GROUND CONDUCTOR WHEN BRANCH CIRCUITS ARE COMBINED IN A SINGLE HOMERUN. GROUND CONDUCTOR SHALL BE SIZED FOR THE LARGEST OVERCURRENT DEVICE.

OVERCURRENT PROTECTION
9. THERMAL OVERLOAD PROTECTION SHALL BE PROVIDED FOR ALL MOTORS WHERE REQUIRED PER CEC 430. OVERLOAD PROTECTION MAY BE PROVIDED INTEGRAL TO EQUIPMENT.
10. WHERE INDICATED ON THE CONSTRUCTION DOCUMENTS, FUSIBLE DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT TIME DELAY FUSES. FUSES SHALL BE SIZED AS NOTED PER THE CONSTRUCTION DOCUMENTS AND/OR PER MANUFACTURER REQUIREMENTS. VERIFY FUSE SPECIFICATION WITH EQUIPMENT NAMEPLATE INFORMATION DURING SUBMITTAL REVIEW. PRIOR TO PROCUREMENT.

MARKING AND CLEARANCE
11. ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH FIELD OR FACTORY MARKING INDICATING THE POTENTIAL ARC FLASH HAZARDS AS REQUIRED IN CEC 110.16 AND 110.21.
12. WORKING SPACE AT ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AS REQUIRED PER CEC 110.

COMMUNICATION
13. PROVIDE EACH COMMUNICATION DEVICE LOCATION WITH A 4" SQUARE, RECESSED JUNCTION BOX, WITH 1-GANG RING AND (1)1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE ABOVE, UNLESS OTHERWISE NOTED.

# GENERAL LIGHTING PLAN NOTES

1. LINE VOLTAGE POWERED EXIT SIGNS, EMERGENCY LUMINAIRES, AND EMERGENCY BATTERY PACKS SHALL BE PROVIDED WITH A CONSTANTLY ENERGIZED BRANCH CIRCUIT CONNECTION FOR CHARGING. EXIT SIGNAGE AND EMERGENCY LIGHTING SHALL BE INSTALLED WITH WIRING METHODS COMPLIANT WITH CEC ARTICLE 700.12(F). IN NO INSTANCE SHALL AN EXIT SIGN HAVE A "FEED THROUGH" BRANCH CIRCUIT CONNECTION.
2. EGRESS ILLUMINATION SHALL MEET OR EXCEED CODE REQUIREMENTS. EMERGENCY LIGHTING SHALL BE PROVIDED ALONG THE INTERIOR PATH OF EGRESS TO THE EXTERIOR EXIT DISCHARGE AND/OR AREA OF REFUGE AS REQUIRED PER THE CBC.
3. BRANCH CIRCUIT CONDUCTORS SHALL BE A MINIMUM OF #12 THWN, UNLESS OTHERWISE NOTED OR REQUIRED BY THE CEC.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE LOCATION PRIOR TO INSTALLATION.
5. LUMINAIRE CONTROL SWITCHES SHALL BE INSTALLED ON THE STRIKE SIDE OF THE DOOR UNLESS OTHERWISE NOTED PER THE PLANS. REFER TO ARCHITECTURAL PLANS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE CEC T-24 INSTALLATION CERTIFICATION AND LIGHTING ACCEPTANCE DOCUMENTATION. FORMS CAN BE DOWNLOADED ON-LINE AT : http://www.energy.ca.gov/title24/2016standards/nonresidential_manual.html

# GENERAL ROOF PLAN NOTES

1. RECEPTACLES INSTALLED AT ROOF LEVEL SHALL BE PROVIDED WITH A WEATHERPROOF WHILE-IN-USE COVER (LOCKING AS REQUIRED PER PLANS).
2. FINAL CONNECTIONS (WITHIN TWO FEET) FOR EACH MECHANICAL/PLUMBING EQUIPMENT SHALL BE MADE WITH LIQUID TIGHT, FLEXIBLE CONDUIT. A GROUNDING CONDUCTOR SHALL BE INSTALLED, MINIMUM SIZE PER CEC REQUIREMENTS.
3. ALL EQUIPMENT SHOWN AT ROOF LEVEL SHALL BE LISTED FOR EXTERIOR USE (I.E. NEMA 3R RATING).
4. VERIFY LOCATION OF ROOF-MOUNT DISCONNECT SWITCHES AND CONDUIT ENTRY LOCATIONS FOR EQUIPMENT IN ROOF WITH MECHANICAL CONTRACTOR AND APPROVED EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN.
5. CONDUIT SHALL NOT BE INSTALLED AND ROUTED ALONG TOP OF ROOF UNLESS SPECIFICALLY INDICATED PER PLANS. CONDUIT SERVING ROOF MOUNT EQUIPMENT SHALL ROUTE IN THE ACCESSIBLE CEILING SPACE BELOW ROOF. CONDUIT PENETRATIONS AT ROOF SHALL BE APPROVED BY THE ROOFING CONTRACTOR. ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND SHALL NOT COMPROMISE ROOF INTEGRITY.

# CODE COMPLIANCE

THE WORK IDENTIFIED IN THESE PLANS AND SPECIFICATIONS SHALL CONFORM TO AND BE INSTALLED IN COMPLIANCE WITH APPLICABLE CODES, STANDARDS, AND ORDINANCES ENFORCED BY THE LOCAL AUTHORITY HAVING JURISDICTION AT TIME OF PERMITTING, UNLESS OTHERWISE NOTED, CODES, STANDARDS, AND ORDINANCES SHALL BE THE LATEST EDITION WITH CALIFORNIA AND LOCAL JURISDICTION AMENDMENTS AS APPLICABLE. WORK IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED TO CONFLICT WITH ANY STATE LAW, CODE OF REGULATION. LOCAL ORDINANCE, ASSEMBLY BILL, ETC.
- CALIFORNIA CODE OF REGULATIONS TITLE 24
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA FIRE CODE
- 2016 CALIFORNIA BUILDING CODE
- CALIFORNIA ACCESSIBILITY CODE
- SOUTH SAN FRANCISCO MUNICIPAL CODE

# GENERAL NOTES

WORK PERFORMED
1. FURNISH LABOR, MATERIALS, EQUIPMENT, COMPONENTS, TOOLS, TRANSPORTATION TO/FROM THE WORK SITE, AND NECESSARY SERVICES ETC., AS REQUIRED TO SUPPORT AND IMPLEMENT THE ELECTRICAL WORK SHOWN ON THE CONSTRUCTION DOCUMENTS.
2. "PROVIDE" AS USED ON THE CONSTRUCTION DOCUMENTS, IS DEFINED AS "FURNISH AND INSTALL".
3. PERMITS SHALL BE OBTAINED FOR ELECTRICAL WORK. ARRANGE INSPECTIONS WITH THE AHJ AND OBTAIN ACCEPTANCE. CONSULT WITH THE ELECTRICAL INSPECTOR PRIOR TO BEGINNING WORK.
4. ELECTRICAL WORK SHALL BE PERFORMED BY A CALIFORNIA STATE LICENSED ELECTRICIAN.
5. INSTALL EQUIPMENT AT LOCATIONS INDICATED ON THE DRAWINGS AS CLOSELY AS FIELD CONDITIONS PERMIT. OBTAIN ACCEPTANCE OF EQUIPMENT DIMENSIONS PRIOR TO INSTALLATION THROUGH SUBMITTAL REVIEW. CALIFORNIA ELECTRICAL CODE (CEC) MINIMUM WORKING CLEARANCES SHALL BE MAINTAINED.
6. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT REFLECT MINOR VARIATIONS IN EQUIPMENT ALIGNMENT/INSTALLATION THAT MAY BE NECESSARY. REVIEW EXISTING FIELD CONDITIONS AND MAKE PROPER ADJUSTMENTS AS REQUIRED TO AVOID CONFLICT WITH OTHER TRADES OR PORTIONS OF WORK, SATISFY THE DESIGN REQUIREMENTS, AND MEET CODE MINIMUMS. OBTAIN ACCEPTANCE OF ADJUSTMENTS FROM THE ARCHITECT/ENGINEER.
7. DRAWINGS DO NOT SHOW THE EXTENT OF J-BOXES AND PULL BOXES THAT ARE REQUIRED TO IMPLEMENT THE ELECTRICAL WORK. PROVIDE THE QUANTITY OF J-BOXES AND PULL BOXED AS REQUIRED TO IMPLEMENT ELECTRICAL WORK, COMPLY WITH CODE, AND MEET AHJ REQUIREMENTS.
8. NOTIFY THE ARCHITECT/ENGINEER OF DISCREPANCIES WITHIN THE DRAWINGS, THIS SPECIFICATION, AND/OR ACTUAL FIELD CONDITIONS.
9. COORDINATE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
10. RACEWAYS WITHIN THE BUILDING SHALL BE CONCEALED, WITH THE EXCEPTION OF EXPOSED STRUCTURE AND WHERE SPECIFICALLY ALLOWED BY THE ARCHITECT/OWNER. WHERE APPROVED, EXPOSED CONDUIT SHALL BE RUN SQUARE AND PLUMB WITH BUILDING LINES AND SHALL BE PROPERLY SUPPORTED PER CODE.
11. EXPOSED CONDUIT BELOW 7' AFF. AND WHERE SUBJECT TO PHYSICAL DAMAGE, SHALL BE INSTALLED IN GRS CONDUIT.
12. WHERE CONDUIT ONLY IS SHOWN ON THE DRAWINGS AND/OR INSTALLED FOR FUTURE PROVISIONS, 1" AND LARGER, INSTALL A NYLON PULL CORD/ROPE.
13. FLUSH MOUNTED PANELBOARDS/LOAD CENTERS SHALL HAVE A MINIMUM OF (1) 3/4" C.O. INSTALLED FROM THE PANEL TO AN ACCESSIBLE CEILING AREA. FOR EVERY FOUR BRANCH CIRCUIT SPARES AND/OR SPACES.

BIDDING
1. PRIOR TO BIDDING, CONSULT PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IF PROJECT SPECIFICATIONS HAVE NOT BEEN PROVIDED, REQUEST THEM FROM THE ARCHITECT AND/OR ENGINEER OF RECORD.
2. PRIOR TO THE SUBMISSION OF BID REVIEW EXISTING FIELD CONDITIONS AND MAKE PROPER ADJUSTMENTS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
3. OBTAIN ENGINEERING PRE-APPROVAL FOR ALTERNATE PRODUCT AS OUTLINED IN THE PROJECT SPECIFICATIONS.

FINAL ACCEPTANCE
1. COMPLETE ACCEPTANCE TESTING AS REQUIRED PER THE PROJECT SPECIFICATIONS. SUBMIT APPROPRIATE DOCUMENTATION TO THE OWNER, ARCHITECT, AND AHJ.
2. TEST THE ELECTRICAL SYSTEM AND COMPONENTS TO ENSURE PROPER PERFORMANCE. MAKE CORRECTIONS WHERE REQUIRED. DEMONSTRATE SYSTEM PERFORMANCE TO THE OWNER AND OBTAIN ACCEPTANCE.
3. PROVIDE RECORD DRAWINGS PER THE PROJECT SPECIFICATIONS TO THE OWNER.
4. PROVIDE O&M MANUALS PER THE PROJECT SPECIFICATIONS TO THE OWNER.

MATERIAL
1. FURNISHED MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
2. FURNISHED MATERIAL, EQUIPMENT, AND FIRE STOP THROUGH PENETRATIONS SHALL BE LISTED BY UL OR AN EQUIVALENT NATIONALLY RECOGNIZED LISTING AGENCY. PRODUCT LISTINGS SHALL BE PROVIDED TO THE EOR AT TIME OF SUBMITTAL REVIEW.
3. FURNISHED MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE TO THE MANUFACTURER REQUIREMENTS, SUBJECT TO REVIEW, INSPECTION, AND APPROVAL BY THE AHJ.

PENETRATIONS
1. CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN CBC CHAPTER 7 AND COMPLY WITH LOCAL AHJ REQUIREMENTS. PROVIDE MEANS TO MAINTAIN INTEGRITY OF THE FIRE RATED ASSEMBLY BY PROVIDING THE FOLLOWING A PHYSICAL ENCLOSURE AROUND EQUIPMENT (INCLUDING LUMINAIRES, PANELS, OUTLETS, ETC.) AS APPLICABLE. PENETRATED SHALL BE INSTALLED PER APPROVED MANUFACTURER THROUGH-PENETRATION FIRESTOP SYSTEM DETAILS. ELECTRICAL OUTLET BOXES INSTALLED FLUSH IN FIRE RATED ASSEMBLIES SHALL NOT EXCEED 16 SQ. IN., OR MORE THAN 100 SQ. IN. FOR ANY 100SQ. FT. OF WALL.
2. THE PROJECT STRUCTURAL ENGINEER AND ARCHITECT SHALL APPROVE PENETRATION OF STRUCTURAL MEMBERS (INCLUDING BUT NOT LIMITED TO: BEAMS, COLUMNS, FOOTINGS, ETC.), PERFORM WORK IN ACCORDANCE TO STRUCTURAL DETAILS INCLUDED IN THE CONSTRUCTION DOCUMENTS.

EQUIPMENT ANCHORAGE
1. ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES IDENTIFIED IN THE 2013 CBC AND A.S.C.E. 7-10.
2. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND AHJ.
3. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURES ABILITY TO SUPPORT HANGER AND/OR BRACE LOADS DUE TO ELECTRICAL EQUIPMENT.

MECHANICAL & PLUMBING SYSTEMS
1. PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT BRANCH CIRCUIT CONNECTIONS, BETWEEN EXTERIOR MECHANICAL UNIT MOUNTED DISCONNECT SWITCH AND ROOF JACK. FOR POWER AND CONTROL CIRCUITS.
2. CONDUIT SYSTEM FOR MECHANICAL CONTROLS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL/MECHANICAL CONTROL CONTRACTOR. CONDUIT SHALL BE INSTALLED IN ACCORDANCE TO DIVISION 26 SPECIFICATIONS.
3. PROVIDE A 4" SQUARE JUNCTION BOX WITH 1-GANG RING AND 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE ABOVE AT EACH THERMOSTAT LOCATION OR TO THE ASSOCIATED MECHANICAL UNIT AS REQUIRED.
4. PROVIDE POWER WIRING CONNECTIONS TO EXHAUST FANS. EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR.
5. PROVIDE POWER AND FIRE ALARM WIRING TO DUCT MOUNTED SMOKE DETECTORS. DUCT MOUNTED SMOKE DETECTORS PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR.

INITIAL PLANCHECK SET ONLY.
NOT FOR CONSTRUCTION.

DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING. GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.

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**Arris STUDIO ARCHITECTS**
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THOMAS E. JESS ARCHITECT #C27608
STEPHEN A. RIGOR ARCHITECT #C33672
ARCHITECT OF RECORD/CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — NOT FOR CONSTRUCTION — CONSTANCE

STATE OF CALIFORNIA
**INDOOR LIGHTING**
(SECTIONS 130.0 & 130.1(a) OR 130.1(b))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 1 of 6)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| Climate Zone: 6 | Conditioned Floor Area: 31,869<br>Unconditioned Floor Area: 945 | | | | |
| Building Type: | ☐ Nonresidential | ☐ High-Rise Residential | ☐ Hotel/Motel | | |
| ☐ Schools | ☐ Relocatable Public Schools | ☒ Conditioned Spaces | ☒ Unconditioned Spaces | | |
| Phase of Construction: | ☒ New Construction | ☐ Addition | ☐ Alteration | | |
| Method of Compliance: | ☐ Complete Building | ☒ Area Category | ☐ Tailored | | |

Project Address: 550 Gateway Boulevard

**B. Lighting Compliance Documents** (select yes for each document included)

*For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.*

| YES | NO | COMP. DOC | TITLE |
|---|---|---|---|
| ☒ | ☐ | NRCC-LTI-01-E | Certificate of Compliance: All Pages required on plans for all submittals. |
| ☐ | ☐ | NRCC-LTI-02-E | Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals. |
| ☒ | ☐ | NRCC-LTI-03-E | Indoor Lighting Power Allowance |
| ☐ | ☒ | NRCC-LTI-04-E | Tailored Method Worksheets |
| ☐ | ☐ | NRCC-LTI-05-E | Line Voltage Track Lighting Worksheets |
| ☐ | ☐ | NRCC-LTI-06-E | Indoor Lighting Existing Conditions |



STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 2 of 6)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

**C. Summary of Allowed Lighting Power**

Conditioned and Unconditioned space Lighting must not be combined for compliance

| | Indoor Lighting Power for Conditioned Spaces | | Watts | | Indoor Lighting Power for Unconditioned Spaces | | Watts |
|---|---|---|---|---|---|---|---|
| 01 | Installed Lighting<br>NRCC-LTI-01-E, Table H, page 5 | + | 18,949 | | Installed Lighting<br>NRCC-LTI-01-E, Table H, page 5 | + | 473 |
| 02 | Portable Only for Offices<br>NRCC-LTI-01-E, Table G, page 4 | + | | | | | |
| 03 | Minus Lighting Control Credits<br>NRCC-LTI-02-E, page 2 | − | 0 | | Minus Lighting Control Credits<br>NRCC-LTI-02-E, page 2 | − | 0 |
| 04 | Adjusted Installed Lighting Power<br>(row 1 plus row 2 minus row 3) | = | 18,949 | | Adjusted Installed Lighting Power<br>(row 1 minus row 3) | = | 473 |
| | Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05) | | | | Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05) | | |
| 05 | Allowed Lighting Power<br>Conditioned NRCC-LTI-03-E, page 1<br><br>Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2 | | 24,044 | | Allowed Lighting Power<br>Unconditioned NRCC-LTI-03-E, page 1<br><br>Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2 | | 473 |

**D. Declaration of Required Certificates of Installation**

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

| YES | NO | Compliance Document/Title | |
|---|---|---|---|
| ☒ | ☐ | NRCH-LTI-01-E – Must be submitted for all buildings. | ☐ Field Inspector |
| ☐ | ☒ | NRCI-LTI-02-E – Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | ☐ Field Inspector |
| ☐ | ☒ | NRCH-LTI-03-E – Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. | ☐ Field Inspector |
| ☐ | ☒ | NRCH-LTI-04-E – Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | ☐ Field Inspector |
| ☐ | ☒ | NRCH-LTI-05-E – Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | ☐ Field Inspector |
| ☐ | ☒ | NRCH-LTI-06-E – Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | ☐ Field Inspector |



STATE OF CALIFORNIA
**INDOOR LIGHTING**
(SECTIONS 130.0 & 130.1(a) OR 130.1(b))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 3 of 6)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

**E. Declaration of Required Certificates of Acceptance**

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

| YES | NO | Compliance Document/Title | |
|---|---|---|---|
| ☐ | ☐ | NRCA-LTI-02-A – Must be submitted for occupancy sensors and automatic time switch controls. | ☐ Field Inspector |
| ☐ | ☐ | NRCA-LTI-03-A – Must be submitted for automatic daylight controls. | ☐ Field Inspector |
| ☐ | ☐ | NRCA-LTI-04-A – Must be submitted for demand responsive lighting controls. | ☐ Field Inspector |
| ☐ | ☐ | NRCA-LTI-05-A – Must be submitted for institutional tuning power adjustment factor (PAF). | ☐ Field Inspector |

*A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:*
☐ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

**F. Indoor Lighting Schedule and Field Inspection Energy Checklist**

☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.



STATE OF CALIFORNIA
**INDOOR LIGHTING**
(SECTIONS 130.0 & 130.1(a) OR 130.1(b))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 4 of 6)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

**G. Installed Portable Luminaires in Offices – Exception to Section 140.0(a)**

☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

| Office Portable Luminaire Schedule | | | | | | | Office Installed Portable Luminaire W/ft² | | Office Location | Field Inspector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect) | | Watts per luminaire | Number of Luminaires | Installed portable luminaire watts in this office (G02 x G03) | Square Feet of this office | Watts per square foot (G04 / G05) | If G06 ≤ 0.3, enter: zero;<br>If G06 > 0.3, (G06-0.3) | (G05 x G07) | Identify Office area in which these portable luminaires are installed | Pass | Fail |
| | | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | | ☐ | ☐ |
| Total installed portable luminaire watts that are greater than 0.3 W/ft² per office: | | | | | | | | | Enter sum total of all pages into NRCC-LTI-01-E; Page 1 | | |



STATE OF CALIFORNIA
**INDOOR LIGHTING**
(SECTIONS 130.0 & 130.1(a) OR 130.1(b))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 5 of 6)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

*A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:*
☒ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

**H. Indoor Lighting Schedule and Field Inspection Energy Checklist**

| Luminaire Schedule | | | | | Installed Watts | | | Location | Field Inspector[1] | |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | | 05 | 06 | 07 | 08 | | |
| Name or Item Tag | Complete Luminaire Description<br>(i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per Luminaire | How wattage was determined: CEC Default Table 140.6 | How wattage was determined: According to Manufacturer (§10-111(b)) | Number Luminaires | Total Installed Watts in this area (WATTS PER) x (NO.) | Primary Function area in which these luminaires are installed | Pass | Fail |
| A | 100W Incadescent | 100.0 | ☒ | ☐ | 63 | 5,300 | Corridor/Restroom/Support | ☐ | ☐ |
| C1 | 26W LED DL | 26.0 | ☒ | ☐ | 23 | 598 | Lobby, Hotel | ☐ | ☐ |
| C1 | 26W LED DL | 26.0 | ☒ | ☐ | 18 | 468 | Dining Room | ☐ | ☐ |
| C1 | 26W LED DL | 26.0 | ☒ | ☐ | 10 | 260 | Convention/Conference/Meeting | ☐ | ☐ |
| C1 | 26W LED DL | 26.0 | ☒ | ☐ | 4 | 104 | Lounge, Recreation | ☐ | ☐ |
| C1 | 26W LED DL | 26.0 | ☒ | ☐ | 79 | 2,054 | Corridor/Restroom/Support | ☐ | ☐ |
| C2 | 26W LED DL | 26.0 | ☒ | ☐ | 7 | 182 | Exercise Room | ☐ | ☐ |
| C3 | C3 14.8W LED DL | 14.8 | ☒ | ☐ | 196 | 2,901 | Corridor/Restroom/Support | ☐ | ☐ |
| C3 | C3 14.8W LED DL | 14.8 | ☒ | ☐ | 6 | 89 | Lobby, Hotel | ☐ | ☐ |
| | | | | INSTALLED WATTS PAGE TOTAL: | | 11,996 | Enter sum total of all pages into NRCC-LTI-01-E; Page 2 | | |



STATE OF CALIFORNIA
**INDOOR LIGHTING**
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 5 of 6)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

*A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:*
☒ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

**H. Indoor Lighting Schedule and Field Inspection Energy Checklist**

| Luminaire Schedule | | | | | Installed Watts | | | Location | Field Inspector[1] | |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | | 05 | 06 | 07 | 08 | | |
| Name or Item Tag | Complete Luminaire Description<br>(i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per Luminaire | How wattage was determined: CEC Default Table 140.6 | How wattage was determined: According to Manufacturer (§10-111(b)) | Number Luminaires | Total Installed Watts in this area (WATTS PER) x (NO.) | Primary Function area in which these luminaires are installed | Pass | Fail |
| C3 | C3 14.8W LED DL | 14.8 | ☒ | ☐ | 4 | 59 | Lobby, Main Entry | ☐ | ☐ |
| C3 | C3 14.8W LED DL | 14.8 | ☒ | ☐ | 6 | 89 | Office > 250 sqft | ☐ | ☐ |
| C3 | C3 14.8W LED DL | 14.8 | ☒ | ☐ | 2 | 30 | Office <= 250 sqft | ☐ | ☐ |
| C4 | 14.8W LED DL | 14.8 | ☒ | ☐ | 36 | 533 | Corridor/Restroom/Support | ☐ | ☐ |
| C4 | 14.8W LED DL | 14.8 | ☒ | ☐ | 2 | 30 | Laundry | ☐ | ☐ |
| C4 | 14.8W LED DL | 14.8 | ☒ | ☐ | 2 | 30 | Lobby, Hotel | ☐ | ☐ |
| D1 | 480W DECORATIVE PENDANT | 480.0 | ☐ | ☒ | 1 | 480 | Dining Room | ☐ | ☐ |
| D1 | 480W DECORATIVE PENDANT | 480.0 | ☐ | ☒ | 3 | 1,440 | Lobby, Hotel | ☐ | ☐ |
| D2 | D2 | 100.0 | ☒ | ☐ | 6 | 600 | Corridor/Restroom/Support | ☐ | ☐ |
| | | | | INSTALLED WATTS PAGE TOTAL: | | 3,190 | Enter sum total of all pages into NRCC-LTI-01-E; Page 2 | | |



STATE OF CALIFORNIA
**INDOOR LIGHTING**
(SECTIONS 130.0 & 130.1(a) OR 130.1(b))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01-E
Indoor Lighting — (Page 6 of 6)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

| | | | |
|---|---|---|---|
| Documentation Author Name: | | Documentation Author Signature: | |
| Company: | Gray Electrical Consulting + Engineering, LLC | Signature Date: | 8/7/2017 |
| Address: | | CEA Certification Identification (if you have one): | |
| City/State/Zip: | | Phone: | |

**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 builder provides to the building owner at occupancy.

| | | | |
|---|---|---|---|
| Responsible Designer Name: | Heather A. Gray | Responsible Designer Signature: | |
| Company: | Gray Electrical Consulting + Engineering, LLC | Date Signed: | 8/7/2017 |
| Address: | P.O. Box 308 | License: | |
| City/State/Zip: | Santa Maria, CA 93456 | Phone: | 805-361-0529 |



STATE OF CALIFORNIA
**INDOOR LIGHTING POWER ALLOWANCE**
(SECTIONS 130.0 & 130.1(a) OR 130.1(b))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-03-E
Certificate of Compliance – Indoor Lighting Power Allowance — (Page 1 of 4)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☒ CONDITIONED spaces. ☐ UNCONDITIONED spaces

**A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES**

☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts:

| | (a) | (b) |
|---|---|---|
| 01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page) | | |
| 02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page) | | 24,044 |
| 03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E | | 0 |
| **TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1** | | 24,044 |

☒ Check here if building contains both conditioned and unconditioned areas.

**B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE**

| 01 | 02 | | 03 | | 04 |
|---|---|---|---|---|---|
| TYPE OF BUILDING (From §140.6 Table 140.6-B) | WATTS PER ft² | X | COMPLETE BLDG. AREA | = | ALLOWED WATTS |
| | | | | | |
| Total Area: | | | | | |
| Total Watts. Enter Total Watts into section A, row 1 (Above on this page) | | | | | |

**C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES**

| | Watts |
|---|---|
| Total from section C-2 | 24,044 |
| Total from section C-3 | 0 |
| Total Watts. Enter Total Watts into section A, row 2 (Above on this page) | 24,044 |
| **For Alterations Only** – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option. | |



STATE OF CALIFORNIA
**INDOOR LIGHTING POWER ALLOWANCE**
(SECTIONS 130.0 & 130.1(a) OR 130.1(b))
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-03-E
Certificate of Compliance – Indoor Lighting Power Allowance — (Page 1 of 4)
Project Name: Gateway Hotel SSF — Date Prepared: 8/7/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces. ☒ UNCONDITIONED spaces

**A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES**

☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts:

| | (a) | (b) |
|---|---|---|
| 01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page) | | |
| 02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page) | | 473 |
| 03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E | | 0 |
| **TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1** | | 473 |

☒ Check here if building contains both conditioned and unconditioned areas.

**B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE**

| 01 | 02 | | 03 | | 04 |
|---|---|---|---|---|---|
| TYPE OF BUILDING (From §140.6 Table 140.6-B) | WATTS PER ft² | X | COMPLETE BLDG. AREA | = | ALLOWED WATTS |
| | | | | | |
| Total Area: | | | | | |
| Total Watts. Enter Total Watts into section A, row 1 (Above on this page) | | | | | |

**C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES**

| | Watts |
|---|---|
| Total from section C-2 | 473 |
| Total from section C-3 | 0 |
| Total Watts. Enter Total Watts into section A, row 2 (Above on this page) | 473 |
| **For Alterations Only** – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option. | |



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ARCHITECT OF RECORD/CONSULTANT
REGISTERED PROFESSIONAL ENGINEER — NOT FOR CONSTRUCTION — 22 — ELECTRICAL — STATE OF CALIFORNIA
EXPIRES: 12-31-2017
GECE PROJECT #1435

CONSULTANT
GECE
GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP
1862 SOUTH BROADWAY P: 805-361-0525
SUITE 204 SANTA MARIA, CA 93454 E: INFO@GECECORP.COM
WWW.GECECORP.COM

CLIENT
SRI KRISHNA ENTERPRISE
300 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA 94080

PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA
**T-24 COMPLIANCE DOCUMENTATION - INTERIOR LIGHTING SYSTEM**

| # | REVISION | DATE |
|---|---|---|
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PROJECT
**A15115**
DATE
August 29, 2017
SHEET
**E0.2**

STATE OF CALIFORNIA
**INDOOR LIGHTING POWER ALLOWANCE**
CEC-NRCI-LTI-03-E (Rev. Jan. 2016)
CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTI-03-E |
| Certificate of Compliance - Indoor Lighting Power Allowance | (Page 2 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

**C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE**
☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

| 01 | | 02 | | 03 | | 04 |
|---|---|---|---|---|---|---|
| AREA CATEGORY (From §140.6 Table 140.6-C) | | WATTS PER ft² | X | AREA (ft²) | = | ALLOWED WATTS |
| Location in Building | Primary Function Area per Table 140.6-C | | | | | |
| Corridors, Restrooms, Support | Corridor/Restroom/Support | 0.60 | | 6,475 | | 3,885 |
| Laundry | Laundry | 0.70 | | 1,181 | | 827 |
| Offices <250 | Office <= 250 sqft | 1.00 | | 969 | | 969 |
| Offices >250 | Office <= 250 sqft | 1.00 | | 268 | | 268 |
| Meeting Room | Convention/Conference/Meeting | 1.20 | | 1,652 | | 1,982 |
| Lobby | Lobby, Hotel | 0.95 | | 2,008 | | 1,908 |
| Dining | Dining Room | 1.10 | | 2,482 | | 2,731 |
| Food Prep | Kitchen, Food Preparation | 1.20 | | 451 | | 541 |
| Fitness Room | Exercise Room | 1.00 | | 610 | | 610 |
| Electrical Room | Electrical, Mechanical Room | 0.55 | | 612 | | 336 |
| Game Room | Lounge, Recreation | 0.90 | | 374 | | 337 |
| Lounge Area | Lounge, Recreation | 0.90 | | 337 | | 303 |
| Lobby, Main Entry | Lobby, Main Entry | 0.95 | | 132 | | 125 |
| Corridor, Restrooms, Support | Corridor/Restroom/Support | 0.60 | | 2,644 | | 1,586 |
| Lobby | Lobby, Hotel | 0.95 | | 150 | | 143 |
| Electrical, Mechanical Room | Electrical, Mechanical Room | 0.55 | | 168 | | 92 |
| | | | TOTALS | 19,114 | | |
| Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document) | | | | | | 15,644 |
| | | | | | | WATTS |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
**INDOOR LIGHTING POWER ALLOWANCE**
CEC-NRCI-LTI-03-E (Rev. Jan. 2016)
CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTI-03-E |
| Certificate of Compliance - Indoor Lighting Power Allowance | (Page 3 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☑ UNCONDITIONED spaces

**G-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE [from Table 140.6-C Footnotes]**

| 01 | 02 | 03 [1] | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Primary Function | Sq Ft or Linear Ft | Additional Watts Allowed | Wattage Allowance (02 x 03) | Description(s) and Quantity of Special Luminaire Types in each Primary Function Area | Total Design Watts [2] | ALLOWED WATTS Smaller of 04 or 06 |
| | | | | | | |
| | | | | | | |
| | | | | | |

STATE OF CALIFORNIA
**OUTDOOR LIGHTING**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-01-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-01-E |
| Outdoor Lighting | (Page 4 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

| | |
|---|---|
| Documentation Author Name: | Documentation Author Signature: |
| Company: Gray Electrical Consulting + Engineeri | Signature Date: 8/7/2017 |
| Address: | CEA Certification Identification (if app. to this doc.): |
| City/State/Zip: , | Phone: |

**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 builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: Heather A. Gray | Responsible Designer Signature: |
| Company: Gray Electrical Consulting + Engineering, I | Date Signed: 8/7/2017 |
| Address: P.O. Box 368 | License: |
| City/State/Zip: Santa Maria, CA 93456 | Phone: 805-361-0525 |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING POWER ALLOWANCES**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-02-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-03-E |
| Outdoor Lighting Power Allowances. | (Page 1 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E) | | | | | | | 1. | 2,274 |
| 2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C 1 to C 4 of NRCC-LTO-03-E. | | | | | | | | |
| PER APPLICATION (SALES FRONTAGE) from Section C 1 | | PER UNIT LENGTH (SALES FRONTAGE) from Section C 2 | | PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C 3 | | PER SPECIFIC AREA from Section C 4. | | |
| 0 | + | 0 | + | 0 | + | 553 | + 2. | 553 |
| 3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2) | | | | | | | 3. | 2,827 |

**B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A**

| Area Wattage Allowance (AWA) | | | | Linear Wattage Allowance (LWA) | | | Initial Wattage Allowance (IWA) | Total General Hardscape Lighting Allowance: |
|---|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Name of Area | Illuminated Hardscape Area | Watts Per Square Foot | AWA (02) × (03) | Perimeter Length of General Hardscape | LPA per Linear Foot | LWA (05) × (06) | IWA (Watts) | (04) + (07) + (08) |
| Parking Lot | 42,330 | 0.030 | 1,270 | 2,918 | 0.250 | 565 | 450 | 2,274 |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | TOTAL | 2,274 |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING POWER ALLOWANCES**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-02-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-03-E |
| Outdoor Lighting Power Allowances. | (Page 4 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

| | |
|---|---|
| Documentation Author Name: | Documentation Author Signature: |
| Company: Gray Electrical Consulting + Engineering, LLC | Signature Date: 8/7/2017 |
| Address: , | CEA Certification Identification (if app. to this doc.): |
| City/State/Zip: , | Phone: |

**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 builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: Heather A. Gray | Responsible Designer Signature: |
| Company: Gray Electrical Consulting + Engineering, LLC | Date Signed: 8/7/2017 |
| Address: P.O. Box 368 | License: |
| City/State/Zip: Santa Maria, CA 93456 | Phone: 805-361-0525 |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-01-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-01-E |
| Outdoor Lighting | (Page 1 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: |

**A. General Information**

| | |
|---|---|
| Project Address: 550 Gateway Boulevard , | Total Illuminated Hardscape Area: 42,330 |
| Phase of Construction: ☐ New Construction ☐ Addition ☐ Alteration | |
| Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☐ LZ-3 ☐ LZ-4 | |

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

**B. Lighting Compliance Documents** (check box for each document included)

*For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.*

| | | |
|---|---|---|
| ☑ | NRCC-LTO-01-E | Certificate of Compliance |
| ☑ | NRCC-LTO-02-E | Outdoor Lighting Controls Certificate of Compliance |
| ☑ | NRCC-LTO-03-E | Outdoor Lighting Power Allowances Certificate of Compliance |
| ☐ | NRCC-LTO-04-E | Outdoor Lighting Existing Conditions Certificate of Compliance |

**C. Summary of Allowed Outdoor Lighting Power**

| | | Watts |
|---|---|---|
| 01 | **Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1<br>Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2. | 2,827 |
| | Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01) | |
| 02 | **Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3. | 1,299 |

**D. Declaration of Required Installation Certificates**

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

| | |
|---|---|
| ☑ NRCI LTO 01 E Must be submitted for all buildings | ☐ Field Inspector |
| ☑ NRCI LTO 02 E Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | ☐ Field Inspector |

**E. Declaration of Required Certificates of Acceptance**

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

| | |
|---|---|
| ☑ NRCA LTO 02 A Must be submitted for outdoor lighting controls. | ☐ Field Inspector |

**F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7**

| 01 | 02 |
|---|---|
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
| | |
| | |
| | |
| | |
| | |



STATE OF CALIFORNIA
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| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-01-E |
| Outdoor Lighting | (Page 3 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**I. Outdoor Lighting Schedule and Field Inspection Energy Checklist**

| Luminaire Schedule | | Installed Watts | | | | | Location | Cutoff | Field Inspector | |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | | 05 | 06 | 07 | 08 | 09 | |
| Name or Item Tag | Complete Luminaire Description | Watts per Luminaire | How wattage was determined<br>(E) Name-plate Watts | (A) Average per §130.0(c) | Number of Luminaires | Total Installed Watts (03) x (04) | Primary Function area in which the luminaires are installed (Outdoor Lighting Zone) | BUG Rating | Pass | Fail |
| S1A | 36W LED POLE LIGHT | 34.0 | ☑ | ☐ | 7 | 238 | Automotive Hardscape | U:H: n/a<br>U:L: n/a<br>FVH: n/a<br>BVH: n/a<br>FH: n/a<br>BH: n/a | ☐ | ☐ |
| S1B | 36W LED POLE LIGHT | 34.0 | ☑ | ☐ | 3 | 102 | Automotive Hardscape | U:H: n/a<br>U:L: n/a<br>FVH: n/a<br>BVH: n/a<br>FH: n/a<br>BH: n/a | ☐ | ☐ |
| S1C | 36W LED POLE LIGHT | 34.0 | ☑ | ☐ | 2 | 68 | Automotive Hardscape | U:H: n/a<br>U:L: n/a<br>FVH: n/a<br>BVH: n/a<br>FH: n/a<br>BH: n/a | ☐ | ☐ |
| | | | | | INSTALLED WATTS PAGE TOTAL: | 408 | Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1. | TOTAL: | 1,299 | |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING CONTROLS**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-02-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-02-E |
| Outdoor Lighting Controls | (Page 1 of 3) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**A. Mandatory Outdoor Lighting Control Declaration Statements**

Check all that apply:

- ☐ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☐ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b).
- ☐ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☑ All installed outdoor lighting shall be independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☑ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5.
- ☑ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting, the outdoor lighting controls shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4 (a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.



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| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-03-E |
| Outdoor Lighting Power Allowances. | (Page 2 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS**

- ☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
- ☐ Use Outdoor Lighting Zone (LZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

**C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B**

☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive-Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting

☐ If more than one luminaire type is used per location, use multiple rows for that location

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | ALLOTTED WATTS | | | | DESIGN WATTS | | | | |
| Name of Location for Which Allowance is Claimed | Number of Qualifying Locations | Wattage Allowance per Qualifying Location | Allotted Watts (02 x 03) | Luminaire Code or Symbol | Luminaire Description | Luminaire Quantity | Watts per Luminaire | Design Watts (07 x 08) | Allowed Watts (smaller of 04 or 09) |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | Sum total allowance per application on this site: | | | | 0 |

**C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B**

☐ If more than one luminaire type is used per location, use multiple rows for that location

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | ALLOTTED WATTS | | | | DESIGN WATTS | | | | |
| Name of Location for Which Allowance is Claimed | Linear Feet of Sales Frontage | Wattage Allowance per Linear Foot | Allotted Watts (02 x 03) | Luminaire Code or Symbol | Luminaire Description | Luminaire Quantity | Watts per Luminaire | Design Watts (07 x 08) | Allowed Watts (smaller of 04 or 09) |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | Sum total allowance for sales frontage on the site: | | | | 0 |



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| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-01-E |
| Outdoor Lighting | (Page 2 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)**

| 01 | 02 |
|---|---|
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
| | |
| | |
| | |
| | |
| | |

**H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)**

| 01 | 02 |
|---|---|
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
| | |
| | |
| | |
| | |
| | |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-01-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-01-E |
| Outdoor Lighting | (Page 3 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**I. Outdoor Lighting Schedule and Field Inspection Energy Checklist**

| Luminaire Schedule | | Installed Watts | | | | | Location | Cutoff | Field Inspector | |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | | 05 | 06 | 07 | 08 | 09 | |
| Name or Item Tag | Complete Luminaire Description | Watts per Luminaire | How wattage was determined<br>(E) Name-plate Watts | (A) Average per §130.0(c) | Number of Luminaires | Total Installed Watts (03) x (04) | Primary Function area in which the luminaires are installed (Outdoor Lighting Zone) | BUG Rating | Pass | Fail |
| S4 | 14.8W LED DOWNLIGHT | 14.8 | ☑ | ☐ | 11 | 163 | Non Sales Canopy | U:H: n/a<br>U:L: n/a<br>FVH: n/a<br>BVH: n/a<br>FH: n/a<br>BH: n/a | ☐ | ☐ |
| F1B | 30W LED FLOOD LIGHTS | 30.0 | ☑ | ☐ | 4 | 120 | Building Facade | U:H: n/a<br>U:L: n/a<br>FVH: n/a<br>BVH: n/a<br>FH: n/a<br>BH: n/a | ☐ | ☐ |
| | | | ☐ | ☐ | | | | U:H:<br>U:L:<br>FVH:<br>BVH:<br>FH:<br>BH: | ☐ | ☐ |
| | | | | | INSTALLED WATTS PAGE TOTAL: | 283 | Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1. | TOTAL: | 1,299 | |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING CONTROLS**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-02-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-02-E |
| Outdoor Lighting Controls | (Page 2 of 3) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist**

| Outdoor Lighting Control Schedule | | | Standards Complying With (✓ all that apply, or enter 'E' if Exempted) | | | | | | ✓ If Acceptance Test Required | Field Inspector | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | |
| Location and Application of Luminaires Being Controlled | Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control) | # of Units | §130.2(a) | §130.2(c)1 | §130.2(c)2 | §130.2(c)3 | §130.2(c)4 | §130.2(c)5 | | Pass | Fail |
| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |
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| | | | | | | | | | ☐ | ☐ | ☐ |
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| | | | | | | | | | ☐ | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ | ☐ |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING CONTROLS**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-02-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-02-E |
| Outdoor Lighting Controls | (Page 3 of 3) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

| | |
|---|---|
| Documentation Author Name: | Documentation Author Signature: |
| Company: Gray Electrical Consulting + Engineering | Signature Date: 8/7/2017 |
| Address: | CEA Certification Identification (if app. to this doc.): |
| City/State/Zip: | Phone: |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

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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 builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: Heather A. Gray | Responsible Designer Signature: |
| Company: Gray Electrical Consulting + Engineering | Date Signed: 8/7/2017 |
| Address: P.O. Box 368 | License: |
| City/State/Zip: Santa Maria, CA 93456 | Phone: 805-361-0525 |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING POWER ALLOWANCES**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-02-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-03-E |
| Outdoor Lighting Power Allowances. | (Page 3 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B**

☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.

☐ If more than one luminaire type is used per location, use multiple rows for that location

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | ALLOTTED WATTS | | | | DESIGN WATTS | | | | |
| Name of area for which ornamental allowance is claimed | Square Feet of Hardscape | Wattage Allowance per Square Foot | Allotted Watts (02 x 03) | Luminaire Code or Symbol | Luminaire Description | Luminaire Quantity | Watts per Luminaire | Design Watts (07 x 08) | Allowed Watts (smaller of 04 or 09) |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | Sum total allowance for ornamental lighting on the site: | | | | 0 |

**C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA – Table 140.7-B**

☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off zone; Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.

☐ If more than one luminaire type is used per location, use multiple rows for that location

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | ALLOTTED WATTS | | | | DESIGN WATTS | | | | |
| Name of Location for Which Allowance is Claimed | Illuminated Area of Application | Wattage Allowance per square Foot | Allotted Watts (02 x 03) | Luminaire Code or Symbol | Luminaire Description | Luminaire Quantity | Watts per Luminaire | Design Watts (07 x 08) | Allowed Watts (smaller of 04 or 09) |
| NW Building Facade | 2,430 | 0.160 | 437 | F1A | 30W LED FLOOD LIGHTS | 1 | 30.0 | 30 | 30 |
| Probe Cochera | 1,131 | 0.205 | 232 | S4 | 14.8W LED DOWNLIGHT | 11 | 14.8 | 163 | 163 |
| N Mid Wall Building | 7,268 | 0.180 | 1,308 | F1A | 30W LED FLOOD LIGHTS | 4 | 30.0 | 120 | 120 |
| NE Building Facade | 2,948 | 0.180 | 309 | F1B | 30W LED FLOOD LIGHTS | 4 | 30.0 | 120 | 120 |
| | | | | | | Sum total allowance for specific area on the site: | | | 553 |



STATE OF CALIFORNIA
**OUTDOOR LIGHTING POWER ALLOWANCES**
CALIFORNIA ENERGY COMMISSION
ECC-MECH-LTG-02-E (Rev. Jan. 2016)

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE: | NRCC-LTO-03-E |
| Outdoor Lighting Power Allowances. | (Page 3 of 4) |
| Project Name: Gateway Hotel SSF | Date Prepared: 8/7/2017 |

**C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B**

☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.

☐ If more than one luminaire type is used per location, use multiple rows for that location

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | ALLOTTED WATTS | | | | DESIGN WATTS | | | | |
| Name of area for which ornamental allowance is claimed | Square Feet of Hardscape | Wattage Allowance per Square Foot | Allotted Watts (02 x 03) | Luminaire Code or Symbol | Luminaire Description | Luminaire Quantity | Watts per Luminaire | Design Watts (07 x 08) | Allowed Watts (smaller of 04 or 09) |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | Sum total allowance for ornamental lighting on the site: | | | | 0 |

**C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA – Table 140.7-B**

☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off zone; Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.

☐ If more than one luminaire type is used per location, use multiple rows for that location

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| | ALLOTTED WATTS | | | | DESIGN WATTS | | | | |
| Name of Location for Which Allowance is Claimed | Illuminated Area of Application | Wattage Allowance per square Foot | Allotted Watts (02 x 03) | Luminaire Code or Symbol | Luminaire Description | Luminaire Quantity | Watts per Luminaire | Design Watts (07 x 08) | Allowed Watts (smaller of 04 or 09) |
| BN Building Facade | 8,425 | 0.180 | 797 | F1A | 30W LED FLOOD LIGHTS | 1 | 30.0 | 30 | 30 |
| BS Building Facade | 5,800 | 0.180 | 648 | F1A | 30W LED FLOOD LIGHTS | 1 | 30.0 | 30 | 30 |
| W Building Facade | 3,308 | 0.180 | 1,136 | F1A | 30W LED FLOOD LIGHTS | 2 | 30.0 | 60 | 60 |
| | | | | | | Sum total allowance for specific area on the site: | | | 553 |



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REGISTERED PROFESSIONAL ENGINEER — NOT FOR CONSTRUCTION — No. 18922 — ELECTRICAL — STATE OF CALIFORNIA
EXPIRES: 12-31-2017
GECE PROJECT # 1435

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PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA
**T-24 COMPLIANCE DOCUMENTATION - EXTERIOR LIGHTING SYSTEM**

| # | REVISION | DATE |
|---|---|---|
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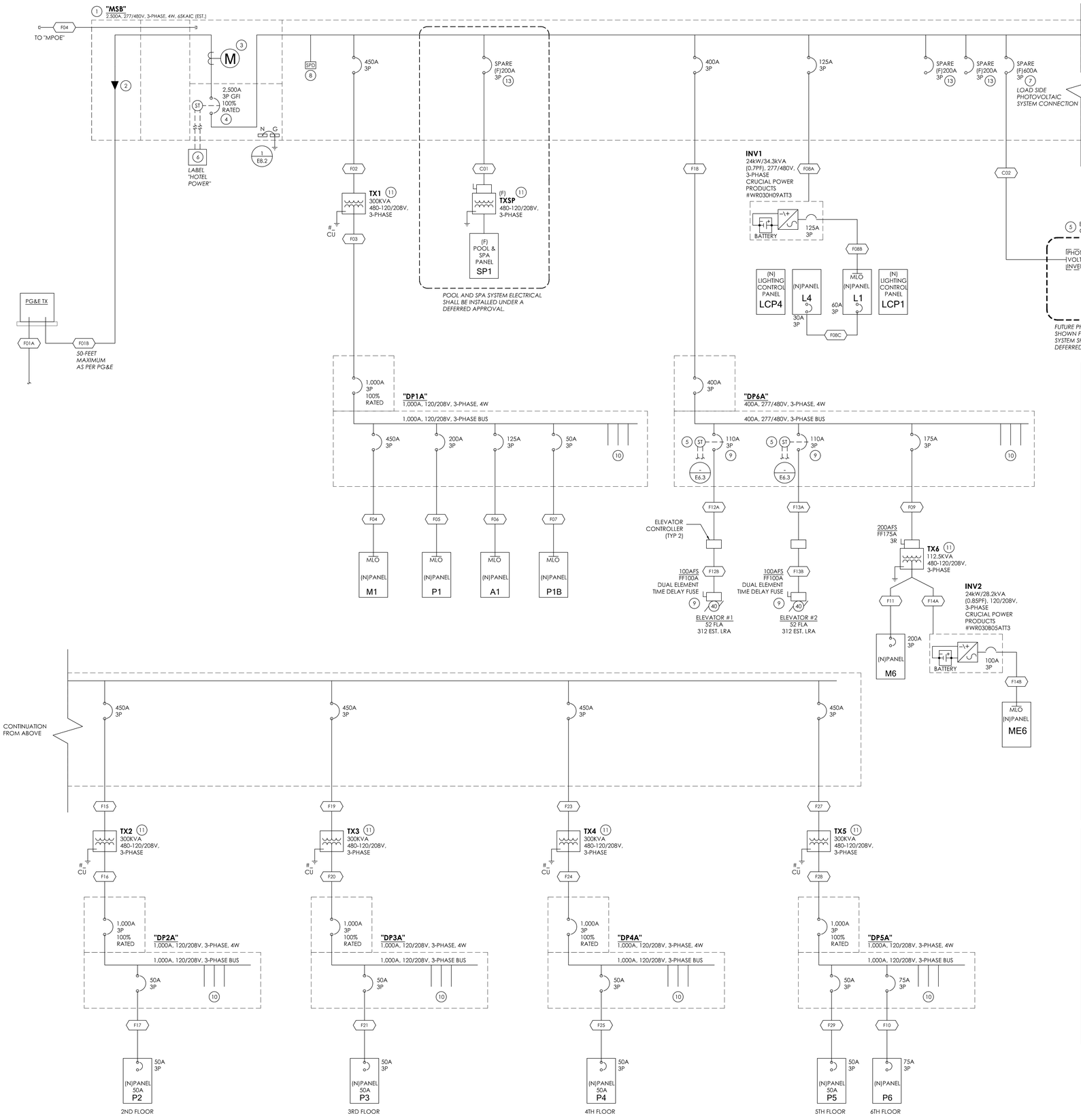
| | | |

PROJECT
**A15115**
DATE
August 29, 2017
SHEET
**E0.4**




## REFERENCE NOTES

1. FACILITY MAIN ELECTRIC SERVICE AND DISTRIBUTION SWITCHGEAR. NEMA 1 ENCLOSURE, RATING AS INDICATED.
2. PG&E APPROVED, UNDERGROUND PULL SECTION.
3. PG&E APPROVED METER SOCKET. COORDINATE METER SET WITH PG&E. METER SHALL BE CAPABLE OF THE FOLLOWING FEATURES AS PER THE 2013 NON RESIDENTIAL ENERGY CODE REQUIREMENTS:
   - 3.1. INSTANTANEOUS (AT THE TIME) KW DEMAND.
   - 3.2. HISTORICAL PEAK DEMAND (KW).
   - 3.3. RESETTABLE KWH.
   - 3.4. KWH PER RATE PERIOD.
4. ELECTRICAL SERVICE MAIN OVERCURRENT PROTECTION, RATING AS INDICATED.100% CAPACITY RATED, RATED SUITABLE FOR BACKFEED, AND PROVIDED WITH GROUND FAULT PROTECTION.
5. FUTURE PHOTOVOLTAIC SYSTEM. FUTURE DESIGN AND SYSTEM INTERCONNECTION ANTICIPATED SUPPLY SIDE OF THE BUILDING ELECTRICAL SERVICE CONNECTION (CEC 705.12(A)) AND SHALL COMPLY WITH THE FOLLOWING:
   - 5.1. OVERCURRENT PROTECTION AND FEEDER CONNECTION SHALL BE MIN. 125% OF THE MAXIMUM SYSTEM OUTPUT (CEC 705.60(A)).
   - 5.2. SYSTEM SHALL BE CONNECTED ON THE SUPPLY SIDE OF THE ELECTRICAL SERVICE GROUND FAULT PROTECTION (CEC 705.32).
   - 5.3. SYSTEM SHALL BE AUTOMATICALLY DE-ENERGIZED UPON LOSS OF NORMAL PRIMARY POWER AND FACILITY OPERATION ON EMERGENCY POWER (CEC 705.40).
   - 5.4. PHOTOVOLTAIC SYSTEM OVERCURRENT PROTECTIVE DEVICES, TOTAL IMPEDANCE, AND EQUIPMENT SHORT CIRCUIT RATINGS SHALL BE COORDINATED PURSUANT TO CEC 110.10.
6. MOTOR CONTROL CABINET, FURNISHED BY OTHERS AND SHOWN FOR REFERENCE ONLY.
7. FUTURE PV SYSTEM DISCONNECTING MEANS. DISCONNECT TO FUNCTION AS PV SYSTEM VISIBLE MEANS OF DISCONNECT. DEVICE SHALL BE SUITABLE FOR BACKFEED.
8. INTEGRAL SURGE PROTECTIVE DEVICE. "SPD" SERIES 250kA WITH DISCONNECT BUILT INTO SWITCHBOARD.
9. OVERCURRENT PROTECTIVE DEVICE RATING SHALL BE VERIFIED WITH ELEVATOR MANUFACTURER SUBMITTAL DOCUMENTATION.
10. REFER TO PANEL SCHEDULES FOR ADDITIONAL LOADS.
11. DRY TYPE ENERGY EFFICIENT DISTRIBUTION TRANSFORMER. RATING AS INDICATED. PROVIDE WITH THE FOLLOWING:
    - 11.1. TYPE NEMA 3R ENCLOSURE (WET LOCATION LOCATION)
    - 11.2. UL CLASS 200 DEG. C. INSULATION. 150 DEG. C. RISE.
    - 11.3. EXTRA LARGE WIRING COMPARTMENT.
    - 11.4. NEMA STANDARD BUS BAR TERMINALS.
    - 11.5. 5% TAP VOLTAGE PROVISIONS.
    - 11.6. NOISE AND VIBRATION ISOLATION PADS FOR QUIET OPERATION.
12. REFER TO PANELS SCHEDULES FOR ADDITIONAL LOAD(S).
13. SPACE PROVISION. PROVIDE SPACE FOR FUTURE DEVICE. AMPACITY RATING AS INDICATED.

## SINGLE LINE DIAGRAM GENERAL NOTES

- FAULT CURRENT CALCULATION NOTE
  THE ELECTRICAL DISTRIBUTION SHALL BE PROVIDED WITH A FAULT RATING CAPABLE TO WITHSTAND THE VALUE INDICATED ON THE SINGLE LINE DIAGRAM AND / OR REFLECTED IN THE FEEDER SCHEDULE PREPARED FOR THIS PROJECT. THE FORMULAS USED IN THIS CALCULATION ARE AS FOLLOWS;

  C FACTOR = 1/2 PER LF
  F FACTOR = [1.73 x L x I ] / [PC x C x E]
  M FACTOR = 1 / [ 1 + F FACTOR]
  SHORT CIRCUIT AMPS AT FAULT = I x M

  DEFINITIONS

  Z PER LF = CONDUCTOR IMPEDANCE PER LINEAR FOOT
  L = CONDUCTOR LENGTH IN LINEAR FEET
  I = FAULT CURRENT RATING AVAILABLE AT THE SOURCE
  PC = QUANTITY OF PARALLEL CONDUCTORS PER PHASE
  C = C FACTOR (SEE EQUATION)
  E = LINE VOLTAGE

- THE CONTRACTOR SHALL MEET ALL SERVING UTILITY REQUIREMENTS WITH RESPECT TO PROCUREMENT AND INSTALLATION OF THE ELECTRICAL SERVICE. REQUIREMENTS INCLUDE, HOWEVER ARE NOT LIMITED TO THE FOLLOWING:
  - METER JAW CONFIGURATION SHALL BE AS REQUIRED PER THE SERVING UTILITY.
  - SERVICE EQUIPMENT UNDERGROUND PULL SECTION SHALL MEET SERVING UTILITY COMPANY REQUIREMENTS.
  - REMOTE METER CONDUIT SHALL ENTER SERVICE ENTRANCE EQUIPMENT AT TOP OF SECTION. OBTAIN APPROVAL ON ALL REMOTE METER LOCATIONS FROM PG&E PRIOR TO INSTALLATION.
  - PG&E TERRITORY ONLY: THE HEIGHT OF THE ELECTRIC METER SHALL NOT BE MORE THAN 75" FROM STANDING FLOOR SURFACE TO THE CENTER LINE OF THE METER. THE MINIMUM METER HEIGHT SHALL BE 36" ABOVE STANDING SURFACE (INTERIOR) AND 48" ABOVE FINISHED GRADE (EXTERIOR).
  - PG&E TERRITORY ONLY: INTERIOR SERVICE EQUIPMENT SHALL BE EQUIPPED WITH A 2-INCH DIAMETER CONDUIT (EMT OR BETTER WHEN INSTALLED ABOVE GRADE, GRS WHEN INSTALLED UNDERGROUND, UNDERFLOOR, OR IN CONCRETE), WITH PULL ROPE. THE CONDUIT MUST EXTEND FROM THE OUTSIDE SURFACE OF THE BUILDING AND TERMINATE OUTSIDE THE METER PANEL/SWITCHBOARD AT THE TOP OF THE METER SECTION.
  - PG&E TERRITORY ONLY: INTERIOR AND EXTERIOR SERVICE EQUIPMENT 200KW OR GREATER SHALL HAVE A 1-INCH DIAMETER CONDUIT (EMT OR BETTER WHEN INSTALLED ABOVE GRADE, GRS WHEN INSTALLED UNDERGROUND, UNDERFLOOR, OR IN CONCRETE) EXTENDING FROM THE TELEPHONE-SERVICE LOCATION AND TERMINATING IN THE METER SECTION OF THE PANEL.
  - PG&E WORKING CLEARANCE: A LEVEL, CONCRETE STRUCTURE (I.E. FLOOR, PAD) MUST BE PROVIDED A MINIMUM OF 48" IN FRONT OF ALL PG&E METERING AND PULL SECTIONS AS PER PG&E ELECTRIC SERVICE REQUIREMENTS.
- THE CONTRACTOR SHALL OBTAIN SERVING UTILITY COMPANY APPROVAL OF THE SERVICE EQUIPMENT DURING SUBMITTAL REVIEW AND PRIOR TO PROCUREMENT.
- SERIES RATED EQUIPMENT SHALL NOT BE ALLOWED.
- CONDUCTORS SHALL BE THHN/THWN COPPER UNLESS OTHERWISE NOTED. AMPACITY SIZES NOTED ON THE CONSTRUCTION DOCUMENTS ARE BASED ON 75 DEG.
- TERMINALS FOR SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS.
- FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL NE TORQUE-WRENCH TIGHTENED TO THE MANUFACTURER RECOMMENDED SPECIFICATION.
- THE MAIN CIRCUIT BREAKER SHALL BE 100% RATED PER THE VALUE NOTED.
- THE ELECTRICAL DISTRIBUTION DESIGN SHOWN IS BASED ON EATON PRODUCT. ENGINEER-APPROVED EQUAL PRODUCT OF AN ALTERNATE MANUFACTURER WILL BE ACCEPTABLE. HOWEVER, THIS DETERMINATION WILL BE MADE DURING THE SUBMITTAL REVIEW PROCESS. ALTERNATE PRODUCT SHALL NOT BE USED AS BASIS OF A BID WITHOUT PRE-APPROVAL FROM THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A FORMAL PRE-BID SUBMITTAL IN ACCORDANCE TO THE GENERAL CONDITIONS OF THE PROJECT SPECIFICATIONS.
- EMERGENCY DISTRIBUTION EQUIPMENT (I.E. BOXES, CABINETS, TRANSFER SWITCHES, GENERATORS, POWER PANELS, ETC.,) SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM IN ACCORDANCE TO NEC 700-9(A).

## PHOTOVOLTAIC SYSTEM DEFERRED APPROVAL NOTES

1. A PERMANENT PLAQUE SHALL BE PROVIDED AT THE BUILDING MAIN ELECTRICAL PANEL CLEARLY IDENTIFYING THE EXISTENCE OF AN ALTERNATE POWER SOURCE AND LOCATION OF MEANS OF DISCONNECT FOR ALTERNATE POWER SYSTEM.
2. PV SYSTEM SCHEMATIC CONNECTIONS HAVE BEEN INCLUDED FOR REFERENCE ONLY. ACTUAL SYSTEM REQUIREMENTS SHALL BE DETERMINED BY EQUIPMENT/SYSTEM VENDOR AND INCORPORATED IN DEFERRED SUBMITTAL FOR PERMITTING.
3. SPECIFIC REQUIREMENTS:
   - 3.1. THE SOLAR INTERCONNECTION TO THE BUILDING MAIN ELECTRICAL SERVICE SHALL BE IN ACCORDANCE TO CEC ARTICLE 690.
   - 3.2. THE PHOTOVOLTAIC SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS CEC 605.11.1-605.11.4. MARKING IS REQUIRED ON THE INTERIOR AND EXTERIOR DIRECT CURRENT (DC) CONDUIT, ENCLOSURES, RACEWAYS, CABLE ASSEMBLIES, JUNCTION BOXES, COMBINER BOXES, AND DISCONNECTS.
   - 3.3. SOLAR COMPONENTS SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENING SUCH AS WINDOWS, DOORS, AND MUST BE LOCATED OVER STROND POINTS WHERE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTACLES SUCH AS TREES, WIRES, OR SIGNS.
   - 3.4. THERE SHALL BE A SIX (6) FOOT WIDE CLEAR PERIMETER AROUND THE EDGES OF THE ROOF UNLESS EITHER AXIS OF THE BUILDING IS 250 FEET, THAN FOUR (4) FOOT CLEAR PERIMETER SHALL BE PERMITTED. SMOKE VENTILATION OPERATIONS REQUIRE DISTANCES BETWEEN ARRAYS TO BE EIGHT (8) FEET OR GREATER IN WIDTH OR A FOUR (4) FOOT, OR GREATER, PATHWAY AND BORDERING ROOF SKYLIGHTS, OR SMOKE AND HEAT VENTS OR A FOUR (4) FOOT, OR GREATER, AND A BORDERING FOUR (4) FOOT BY EIGHT (8) FOOT "VENTING CUTOUTS" EVERY 20 FEET ON ALTERING SIDES OF THE PATHWAY.
   - 3.5. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA STATE AMENDMENTS AS APPLICABLE AND SHALL BE PREPARED BY A LICENSED DESIGN PROFESSIONAL. IN ADDITION, THE GENERAL REQUIREMENTS OF CHAPTERS 1 - 4, SPECIAL REQUIREMENTS MAY ALSO APPLY. THE DESIGN SHALL COMPLY WITH ARTICLE 690, 445, 480, AND 705. OTHER ARTICLES MAY ALSO APPLY DEPENDING ON THE SYSTEM CONFIGURATION.
   - 3.6. THE PHOTOVOLTAIC SYSTEM SHALL IN INSTALLED BY A QUALIFIED ELECTRICIAN.
4. THE PHOTOVOLTAIC SYSTEM SHALL BE A DEFERRED APPROVAL. INSTALLATION OF THE PHOTOVOLTAIC SYSTEM SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS OBTAINED A PERMIT FOR THE WORK BY THE AUTHORITY HAVING JURISDICTION.

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REGISTERED PROFESSIONAL ENGINEER STEPHEN A. RIGOR NO. E-17927 ELECTRICAL STATE OF CALIFORNIA
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PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**SINGLE LINE DIAGRAM**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
A15115
DATE
August 29, 2017
SHEET
E1.0

## LIGHTING CONTROL PANEL "LCP1"

LOCATION: ELECTRICAL ROOM
ENCLOSURE: NEMA 1, SURFACE
RATING: (SEE E1.2)
# RELAYS: 32

| RELAY | DESCRIPTION | CONTROL | DIMMING TECHNOLOGY | BRANCH CIRCUIT | CONNECTED LOAD (VA) | LOAD TYPE | NOTES |
|---|---|---|---|---|---|---|---|
| 1 | 1ST FLOOR SUPPORT ROOMS & OFFICES | TIME CONTROL ON /OFF | - | L1-1 | 1432 | LED | 2 |
| 2 | 1ST FLOOR COORIDOR/ELE. LOBBY | TIME CONTROL ON /OFF | - | L1-3 | 461.2 | LED | 1, 2 |
| 3 | BREAKFAST 1 | TIME CONTROL ON /OFF | - | L1-5 | 964 | LED | 1, 8 |
| 4 | FITNESS/ELECT./ KITCHEN PREP | TIME CONTROL ON /OFF | - | L1-7 | 844.4 | LED | 1, 8 |
| 5 | GATHERING AREA/VESTIBULE | TIME CONTROL ON /OFF | - | L1-9 | 449.2 | LED | 1, 2 |
| 6 | 1ST FLOOR LOBBY DECROTIVE PENDANT | TIME CONTROL ON /OFF | - | L-11 | 1800 | (15) 40W G9 | 1, 2 |
| 7 | BREAKFAST 2 | TIME CONTROL ON /OFF | - | L1-13 | 404 | LED | 1, 8 |
| 8 | EAST STAIRWELL | TIME CONTROL ON /OFF | - | L1-2 | 1092 | LED | 1, 2, 5 |
| 9 | WEST STAIRWELL | TIME CONTROL ON /OFF | - | L1-4 | 1092 | LED | 1, 2, 5 |
| 10 | 2ND FLR COORIDOR | TIME CONTROL ON /OFF | - | L1-6 | 695.6 | LED | 1, 2 |
| 11 | 2ND FLR COORIDOR WALL SCONCE | TIME CONTROL ON /OFF | - | L1-8 | 1300 | LED | 1, 2 |
| 12 | SPACE | | | | | | |
| 13 | SPACE | | | | | | |
| 14 | SPACE | | | | | | |
| 15 | SPACE | | | | | | |
| 16 | SPACE | | | | | | |
| 17 | SPACE | | | | | | |
| 18 | SPACE | | | | | | |
| 19 | 1ST FLOOR MEETING ROOM | TIME CONTROL ON /OFF | - | L1-15 | 916 | LED | 1 |
| 20 | 1ST FLOOR RESTROOM | TIME CONTROL ON /OFF | - | L1-17 | 1600 | LED | |
| 21 | 1ST FLOOR RESTROOM | TIME CONTROL ON /OFF | - | L1-19 | 400 | LED | |
| 22 | SPACE | | | | | | |
| 23 | SPACE | | | | | | |
| 24-32 | SPACE | | | | | | |

LIGHTING CONTROL PANEL NOTES

1 LIGHTING LOAD IS DIMMABLE VIA 0-10V SYSTEM CONNECTION. PROVIDE DIMMING MODULE FOR SYSTEM CONTROL AS REQUIRED.

2 RELAY TO REMAIN ACTIVE AND "ON" 24-7 AT A REDUCED, I.E. 50%, LUMEN OUTPUT. RELAY CONTROLLED VIA LOCAL OCCUPANCY SENSOR SWITCH INPUT. UPON LOCAL OCCUPANCY DETECTION, RELAY SHALL INCREASE LUMEN OUTPUT TO 100%. CONTROL INTERFACE AS REQUIRED PER 2013 CEC ENERGY CODE, TITLE 24 REQUIREMENTS.

3 NOT USED.

4 NOT USED.

5 EMERGENCY LIGHTING CIRCUIT. LUMINAIRES SHALL COME "ON" AT FULL LUMEN OUTPUT IN THE EVENT OF AN EMERGENCY OR POWER OUTAGE.

6 LIGHTING CONTROL PANEL TO CONTROL RELAY "ON" / "OFF" AT DUSK AND DAWN.

7 NOT USED.

8 TIME CONTROL LOAD PER OWNERS BUSINESS SCHEDULE/HRS.

9 NOT USED.

## LIGHTING CONTROL PANEL "LCP4"

LOCATION: ELECTRICAL ROOM
ENCLOSURE: NEMA 1, SURFACE
RATING: (SEE E1.2)
# RELAYS: 32

| RELAY | DESCRIPTION | CONTROL | DIMMING TECHNOLOGY | BRANCH CIRCUIT | CONNECTED LOAD (VA) | LOAD TYPE | NOTES |
|---|---|---|---|---|---|---|---|
| 1 | SPACE | | | | | | |
| 2 | SPACE | | | | | | |
| 3 | SPACE | | | | | | |
| 4 | SPACE | | | | | | |
| 5 | SPACE | | | | | | |
| 6 | SPACE | | | | | | |
| 7 | SPACE | | | | | | |
| 8 | SPACE | | | | | | |
| 9 | SPACE | | | | | | |
| 10 | SPACE | | | | | | |
| 11 | SPACE | | | | | | |
| 12 | 3RD FLR COORIDOR | TIME CONTROL ON /OFF | - | L4-10 | 695.6 | LED | 1, 2 |
| 13 | 3RD FLR COORIDOR WALL SCONCE | TIME CONTROL ON /OFF | - | L4-12 | 1300 | LED | 1, 2 |
| 14 | 4TH FLR COORIDOR | TIME CONTROL ON /OFF | - | L4-14 | 695.6 | LED | 1, 2 |
| 15 | 4TH FLR COORIDOR WALL SCONCE | TIME CONTROL ON /OFF | - | L4-16 | 1300 | LED | 1, 2 |
| 16 | 5TH FLR COORIDOR | TIME CONTROL ON /OFF | - | L4-18 | 695.6 | LED | 1, 2 |
| 17 | 5TH FLR COORIDOR WALL SCONCE | TIME CONTROL ON /OFF | - | L4-20 | 1300 | LED | 1, 2 |
| 18 | 2ND, 3RD, 4TH, 5TH ELECT./LINEN | TIME CONTROL ON /OFF | - | L4-22 | 640 | LED | 1, 8 |
| 19 | SPACE | | | | | | |
| 20 | SPACE | | | | | | |
| 21 | SPACE | | | | | | |
| 22 | SPACE | | | | | | |
| 23 | SPACE | | | | | | |
| 24-32 | SPACE | | | | | | |

## PANEL L1

TYPE: PANELBOARD — (SEE SHEET E1.2) AIC PANEL & BRANCH CIRCUITS — LOCATION: ELECTRICAL ROOM
BUS: 125A — 42 FULL SIZE BOLT ON — NEMA: 1
277/480V, 3-PHASE, 4W — CIRCUIT BREAKER SPACES — MOUNTING: SURFACE
MAIN LUGS ONLY — PROVIDE WITH EQUIPMENT GROUND BUS — FEED FROM: INV1 / MSB

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 1ST FLOOR SUPPORT ROOMS & OFFICES | 20/1 | 12 | | | 0.7 | C | 1432<br>1092 | | | C | 0.7 | | | 12 | 20/1 | EAST STAIRWELL | 2 | |
| | 3 | 1ST FLOOR COOR/DORY/ELE. LOBBY | 20/1 | 12 | | | 0.7 | C | | 461<br>1092 | | C | 0.7 | | | 12 | 20/1 | WEST STAIRWELL | 4 | |
| | 5 | BREAKFAST 1 | 20/1 | 12 | | | 0.7 | C | | | 964<br>676 | C | 0.7 | | | 12 | 20/1 | 2ND FLR COORIDOR | 6 | |
| | 7 | FITNESS/ELECT./ KITCHEN PREP | 20/1 | 12 | | | 0.7 | C | 844<br>1300 | | | C | 0.7 | | | 12 | 20/1 | 2ND FLR COORIDOR WALL SCONCE | 8 | |
| | 9 | GATHERING AREA/VESTIBULE | 20/1 | 12 | | | 0.7 | C | | 649 | | | | | | | 20/1 | SPARE | 10 | |
| | 11 | 1ST FLOOR LOBBY DECROTIVE PENDANT | 20/1 | 12 | | | 0.7 | C | | | 1800 | | | | | | 20/1 | SPARE | 12 | |
| | 13 | BREAKFAST 2 | 20/1 | 12 | | | 0.7 | C | 404 | | | | | | | | 20/1 | SPARE | 14 | |
| | 15 | 1ST FLOOR MEETING ROOM | 20/1 | 12 | | | 0.7 | C | | 916 | | | | | | | 20/1 | SPARE | 16 | |
| | 17 | 1ST FLOOR RESTROOM | 20/1 | 12 | | | 0.7 | C | | | 1600 | | | | | | 20/1 | SPARE | 18 | |
| | 19 | 1ST FLOOR RESTROOM | 20/1 | 12 | | | 0.7 | C | 400 | | | | | | | | 20/1 | SPARE | 20 | |
| | 21 | SPACE | | | | | | | | | | | | | | | 20/1 | SPARE | 22 | |
| | 23 | SPACE | | | | | | | | | | | | | | | | SPACE | 24 | |
| | 25 | SPACE | | | | | | | | | | | | | | | | SPACE | 26 | |
| | 27 | SPACE | | | | | | | | | | | | | | | | SPACE | 28 | |
| | 29 | SPACE | | | | | | | | | | | | | | | | SPACE | 30 | |
| | 31 | SPACE | | | | | | | | | | | | | | | | SPACE | 32 | |
| | 33 | SPACE | | | | | | | | | | | | | | | | SPACE | 34 | |
| | 35 | SPACE | | | | | | | | | | | | | | | | SPACE | 36 | |
| 4 | 37 | PANEL L4 | - | - | - | - | - | - | 2495 | | | | | | | | | SPACE | 38 | |
| 4 | 39 | " | - | - | - | - | - | - | | 3307 | | | | | | | | SPACE | 40 | |
| 4 | 41 | " | - | - | - | - | - | - | | | 2495 | | | | | | | SPACE | 42 | |
| | | | | | | | | SUBTOTAL (VA) | 796 | 4225 | 7536 | | | | | | | | | |
| | | | | | | | | CONTINUOUS | 1368 | 730 | 1265 | | | | | | | | | |
| | | | | | | | | AMPS @ 277 | 34 | 29 | 32 | | | | | | | | | |

INV1 LOADING: 25.109 KVA — 17.5763 KW RATING (0.7 PF)

## PANEL L4

TYPE: PANELBOARD — (SEE SHEET E1.2) AIC PANEL & BRANCH CIRCUITS — LOCATION: ELECTRICAL ROOM
BUS: 125A — 42 FULL SIZE BOLT ON — NEMA: 1
277/480V, 3-PHASE, 4W — CIRCUIT BREAKER SPACES — MOUNTING: SURFACE
30A MAIN CIRCUIT BREAKER — PROVIDE WITH EQUIPMENT GROUND BUS — FEED FROM: L1

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | SPACE | | | | | | | | | | | | | | | 20/1 | SPARE | 2 | |
| | 3 | SPACE | | | | | | | | | | | | | | | 20/1 | SPARE | 4 | |
| | 5 | SPACE | | | | | | | | | | | | | | | 20/1 | SPARE | 6 | |
| | 7 | SPACE | | | | | | | | | | | | | | | 20/1 | SPARE | 8 | |
| | 9 | SPACE | | | | | | | | 676 | | C | 0.7 | | | 12 | 20/1 | 3RD FLR COORIDOR | 10 | |
| | 11 | SPACE | | | | | | | | | 1300 | C | 0.7 | | | 12 | 20/1 | 3RD FLR COORIDOR WALL SCONCE | 12 | |
| | 13 | SPACE | | | | | | | 676 | | | C | 0.7 | | | 12 | 20/1 | 4TH FLR COORIDOR | 14 | |
| | 15 | SPACE | | | | | | | | 1300 | | C | 0.7 | | | 12 | 20/1 | 4TH FLR COORIDOR WALL SCONCE | 16 | |
| | 17 | SPACE | | | | | | | | | 676 | C | 0.7 | | | 12 | 20/1 | 5TH FLR COORIDOR | 18 | |
| | 19 | SPACE | | | | | | | 1300 | | | C | 0.7 | | | 12 | 20/1 | 5TH FLR COORIDOR WALL SCONCE | 20 | |
| | 21 | SPACE | | | | | | | | 630 | | C | 0.7 | | | 12 | 20/1 | 2ND, 3RD, 4TH, 5TH ELECT./LINEN | 22 | |
| | 23 | SPACE | | | | | | | | | | | | | | | | SPACE | 24 | |
| | 25 | SPACE | | | | | | | | | | | | | | | | SPACE | 26 | |
| | 27 | SPACE | | | | | | | | | | | | | | | | SPACE | 28 | |
| | 29 | SPACE | | | | | | | | | | | | | | | | SPACE | 30 | |
| | 31 | SPACE | | | | | | | | | | | | | | | | SPACE | 32 | |
| | 33 | SPACE | | | | | | | | | | | | | | | | SPACE | 34 | |
| | 35 | SPACE | | | | | | | | | | | | | | | | SPACE | 36 | |
| | 37 | SPACE | | | | | | | | | | | | | | | | SPACE | 38 | |
| | 39 | SPACE | | | | | | | | | | | | | | | | SPACE | 40 | |
| | 41 | SPACE | | | | | | | | | | | | | | | | SPACE | 42 | |
| | | | | | | | | SUBTOTAL (VA) | 1996 | 2646 | 1996 | | | | | | | | | |
| | | | | | | | | CONTINUOUS | 499 | 661 | 499 | | | | | | | | | |
| | | | | | | | | AMPS @ 277 | 9 | 12 | 9 | | | | | | | | | |

## NEW LUMINAIRE SCHEDULE

| TYPE | MANUFACTURER | SPECIFICATION | LAMP | AC VOLTAGE | SYSTEM WATTAGE | MOUNTING | NOTES |
|---|---|---|---|---|---|---|---|
| S1A | MCGRAW-EDISON OR ENGINEER APPROVED EQUAL | GLEON-AF-01-LED-E1-T4W | LED; 5000 °K | 120V | 34W | POLE | SITE LIGHTING, POLE. |
| S1B | MCGRAW-EDISON OR ENGINEER APPROVED EQUAL | GLEON-AF-01-LED-E1-T4FT | LED; 5000 °K | 120V | 34W | POLE | SITE LIGHTING, POLE. |
| S1C | MCGRAW-EDISON OR ENGINEER APPROVED EQUAL | GLEON-AF-01-LED-E1-SLL | LED; 5000 °K | 120V | 34W | POLE | SITE LIGHTING, POLE. |
| S2 | LITHONIA LIGHTING OR ENGINEER APPROVED EQUAL | VAP-6000LM-FST-WD-MVOLT-GZ10-50K-80CRI | LED; 5000 °K | 120V | 62W | SURFACE | SITE LIGHTING, PARKING. |
| S3 | RINCON OR ENGINEER APPROVED EQUAL | BOLLARD | LED; 4000°K | 120V | 14W | BOLLARD | SITE LIGHTING, BOLLARD. |
| S4 | HALO LIGHTING OR ENGINEER APPROVED EQUAL | SLD612-8-40-WH | LED; 4000°K | 120V | 14.8W | SURFACE | SITE LIGHTING, DOWNLIGHT |
| F1A | INSIGHT LIGHTING OR ENGINEER APPROVED EQUAL | MQ2-50-40K-45-SM-IDIM | LED; 4000°K | 120V | 30W | SURFACE | SITE LIGHTING, FLOOD. |
| F1B | INSIGHT LIGHTING OR ENGINEER APPROVED EQUAL | MQ2-50-40K-7-SM-IDIM | LED; 4000°K | 120V | 30W | SURFACE | SITE LIGHTING, FLOOD. |
| A | GEORGE KOVACS OR ENGINEER APPROVED EQUAL | W4787 | TYPE A BULB; 3000 °K | 120V | 100W | SURFACE | DECORATIVE WALL SCONCE. SELECTION BY INTERIOR DESIGNER. |
| C1 | GOTHAM LIGHTING OR ENGINEER APPROVED EQUAL | ICO 35/20 6AR LSS 65D 80 | LED; 3000°K | 120V | 26W | RECESSED | RECESSED DOWNLIGHTS, GYP. BOARD AND T-BAR CEILING APPLICATIONS. |
| C2 | GOTHAM LIGHTING OR ENGINEER APPROVED EQUAL | ICO 35/20 6AR LSS 65D 80 | LED; 4000°K | 120V | 26W | RECESSED | RECESSED DOWNLIGHTS, GYP. BOARD AND T-BAR CEILING APPLICATIONS. |
| C3 | HALO OR ENGINEER APPROVED EQUAL | SLD612-80-30-WH-UNV | LED; 3000°K | 120V | 14.8W | RECESSED | RECESSED DOWNLIGHTS, T-BAR CEILING APPLICATIONS. |
| C4 | HALO OR ENGINEER APPROVED EQUAL | SLD612-80-40-WH-UNV | LED; 4000°K | 120V | 14.8W | RECESSED | RECESSED DOWNLIGHTS, T-BAR CEILING APPLICATIONS. |
| D1 | CYAN DESIGN OR ENGINEER APPROVED EQUAL | 9249 | LED; 3000°K | 120V | 600W | PENDANT | DECORATIVE PENDANT, SELECTION BY INTERIOR DESIGNER. |
| D2 | HINKLEY OR ENGINEER APPROVED EQUAL | 8G440 | LED; 4000°K | 120V | 300W | PENDANT | DECORATIVE PENDANT, SELECTION BY INTERIOR DESIGNER. |
| D4 | MINKA LAVERY OR ENGINEER APPROVED EQUAL | #5K251 | A-19 BULB OR EQUIVALENT; 4000°K | 120V | 100W | SURFACE | BATHROOM VANITY SCONCE, SELECTION BY INTERIOR DESIGNER. |
| L | CYAN DESIGN OR ENGINEER APPROVED EQUAL | 5725 | TYPE A BULB; 3000°K | 120V | 100W | PENDANT | DECORATIVE PENDANT, SELECTION BY INTERIOR DESIGNER. |
| M1 | METALUX OR ENGINEER APPROVED EQUAL | 22GR-LDS-32-F1-UNV-LP840-CD1 | LED; 4000°K | 120V | 28W | RECESSED | RECESSED TROFFER, 2X4 CEILING. |
| M2 | METALUX OR ENGINEER APPROVED EQUAL | 22GR-LDS-32-F1-UNV-LP830-CD1 | LED; 3000°K | 120V | 28W | RECESSED | RECESSED TROFFER, 2X4 CEILING. |
| W | LITHONIA LIGHTING OR ENGINEER APPROVED EQUAL | LBL4-LP840 | LED; 4000°K | 120V | 32W | SURFACE | TROFFER, SUPPORT AREAS, DAMP RATED. |
| X1 | ISOLITE, OR ENGINEER APPROVED EQUAL | ELT-EM-G-IC-W-SC/SW-UC-SD | LED | 120V | 3W | SURFACE | SINGLE FACE EXIT SIGN, GREEN LETTERS ON WHITE BACKGROUND, PROVIDE WITH WALL OR CEILING MOUNTING AND CHEVRON DIRECTIONS AS PER PLANS, PROVIDE INTEGRAL 90-MINUTE MINIMUM, NI-CAD BATTERY BACKUP AND SELF DIAGNOSTICS. |
| X2 | ISOLITE, OR ENGINEER APPROVED EQUAL | 2040-01-G-20-WH | LED | - | - | SURFACE | SELF LUMINOUS LOW LEVEL EXIT SIGN, COMMERCIAL ENVIRONMENT, CHEVRON DIRECTION PER PLANS. (COMMERCIAL INTERIOR) |
| X3 | ISOLITE, OR ENGINEER APPROVED EQUAL | ELT-EM-G-IC-W-SC/SW-UC-SD | LED | 120V | 3W | SURFACE | DUAL FACE EXIT SIGN, GREEN LETTERS ON WHITE BACKGROUND, PROVIDE WITH WALL OR CEILING MOUNTING AND CHEVRON DIRECTIONS AS PER PLANS, PROVIDE INTEGRAL 90-MINUTE MINIMUM, NI-CAD BATTERY BACKUP AND SELF DIAGNOSTICS. |

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REGISTERED PROFESSIONAL ENGINEER — JAMES K. AMOS — No. E-13922 — ELECTRICAL — STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
EXPIRES: 12-31-2017
GECE PROJECT #1635

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300 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA 94080

PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**LIGHTING SCHEDULES**

| # | REVISION | DATE |
|---|---|---|
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PROJECT
**A15115**
DATE
August 29, 2017
SHEET
E1.1

## GATEWAY HOTEL -- FEEDER SCHEDULE

| FEEDER NO. | LOAD DESIGNATION | AMPACITY | CONDUIT SIZE | | FEEDER SPECIFICATION | | | | | ESTIMATED CONDUCTOR LENGTH (LF) (see note #1) | CALCULATED VOLTAGE DROP | | AMPS INTERRUPTING CAPACITY (AIC) (see note #1, 2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | # | Specification | # | Specification | + | # | Gnd. Specification | Eq. | CALCULATED PER FEEDER | TOTAL FROM SOURCE | |
| F01A | PG&E TRANSFORMER | - | 1 | 4"C.O. | CONDUIT ONLY. PROVIDE WITH PULL ROPE AS PER PG&E HANDOUT PACKAGE. | | | | | SEE HANDOUT | SEE HANDOUT | SEE HANDOUT | - |
| F01B | "MSB" | 2,500A | 8 | 5"C.O. | CONDUIT ONLY. PROVIDE WITH PULL ROPE AS PER PG&E HANDOUT PACKAGE. | | | | | SEE HANDOUT | SEE HANDOUT | SEE HANDOUT | - |
| C01 | PV (OPTION 1) | - | 5 | 4"C.O. | CONDUIT ONLY. REFER TO SOLAR VENDOR REQUIREMENTS (DEFERRED APPROVAL) | | | | | - | - | - | - |
| C02 | (F) SP1) | - | 1 | 4"C.O. | CONDUIT ONLY. REFER TO SOLAR VENDOR REQUIREMENTS (DEFERRED APPROVAL) | | | | | - | - | - | - |
| F02 | "TX1" | 460A | 2 | 3"C | 4 | #4/0 AWG THWN CU. | + | 1 | #2 AWG THWN CU. | Eq. | 30 | 0.1 | 0.1 | |
| F03 | "DP1A" | 1,000A | 4 | 3"C | 4 | #250KCMIL THWN CU. | + | 1 | #2/0 AWG THWN CU. | Eq. | 15 | 0.2 | 0.3 | |
| F04 | "M1" | 460A | 2 | 3"C | 4 | #4/0 AWG THWN CU. | + | 1 | #2 AWG THWN CU. | Eq. | 8 | 0.1 | 0.4 | |
| F05 | "P1A" | 200A | 1 | 2"C | 4 | #3/0 AWG THWN CU. | + | 1 | #6 AWG THWN CU. | Eq. | 8 | 0.1 | 0.4 | |
| F06 | "A1" | 130A | 1 | 2"C | 4 | #1 AWG THWN CU. | + | 1 | #6 AWG THWN CU. | Eq. | 10 | 0.1 | 0.4 | |
| F07 | "P1B" | 100A | 1 | 1-1/4"C | 4 | #3 AWG THWN CU. | + | 1 | #8 AWG THWN CU. | Eq. | 12 | 0.1 | 0.4 | - |
| F08A | "TNV1" | 130A | 1 | 2"C | 4 | #1 AWG THWN CU. | + | 1 | #6 AWG THWN CU. | Eq. | 10 | 0.1 | 0.1 | |
| F08B | "L1" | 130A | 1 | 2"C | 4 | #1 AWG THWN CU. | + | 1 | #6 AWG THWN CU. | Eq. | 10 | 0.1 | 0.2 | |
| F08C | "L4" | 65A | 1 | 2"C | 4 | #6 AWG THWN CU. | + | 1 | #10 AWG THWN CU. | Eq. | 160 | 0.78 | 0.98 | |
| F09 | "TX6" | 300A | 2 | 3"C | 3 | #250 AWG THWN CU. | + | 1 | #3 AWG THWN CU. | Eq. | 265 | 0.4 | 1 | |
| F10 | "P6" | 400A | 2 | 3"C | 4 | #3/0 AWG THWN CU. | + | 1 | #3 AWG THWN CU. | Eq. | 10 | 0.2 | 0.3 | |
| F11 | "M6" | 225A | 1 | 2.5"C | 4 | #250KCMIL THWN CU. | + | 1 | #4 AWG THWN CU. | Eq. | 10 | 0.1 | 1.7 | |
| F12A | ELEV. #1 | 150A | 1 | 2"C | 3 | #1/0 AWG THWN CU. | + | 1 | #1/0 AWG THWN CU. | Eq. | 100 | 0.6 | 1.2 | |
| F12B | ELEV. #1 | 150A | 1 | 2"C | 3 | #1/0 AWG THWN CU. | + | 1 | #1/0 AWG THWN CU. | Eq. | 175 | | | |
| F13A | ELEV. #2 | 150A | 1 | 2"C | 3 | #1/0 AWG THWN CU. | + | 1 | #1/0 AWG THWN CU. | Eq. | 100 | 0.6 | 1.2 | |
| F13B | ELEV. #2 | 150A | 1 | 2"C | 3 | #1/0 AWG THWN CU. | + | 1 | #1/0 AWG THWN CU. | Eq. | 175 | | | |
| F14A | "TNV2" | 460A | 2 | 3"C | 4 | #4/0 AWG THWN CU. | + | 1 | #2/0 AWG THWN CU. | Eq. | 100 | 0.15 | 1.75 | |
| F14B | "M16" | 460A | 2 | 3"C | 4 | #4/0 AWG THWN CU. | + | 1 | #2/0 AWG THWN CU. | Eq. | 100 | 0.15 | 1.9 | |
| F15 | "TX2" | 460A | 2 | 3"C | 3 | #4/0 AWG THWN CU. | + | 1 | #2 AWG THWN CU. | Eq. | 140 | 0.6 | 0.6 | |
| F16 | "DP2A" | 1,000A | 4 | 3"C | 4 | #250KCMIL THWN CU. | + | 1 | #1/0 AWG THWN CU. | Eq. | 15 | 0.1 | 0.7 | |
| F17 | "P2" | 50A | 1 | 1"C | 4 | #8 AWG THWN CU. | + | 1 | #10 AWG THWN CU. | Eq. | 5 | 0.1 | 0.8 | |
| F18 | "DP3A" | 460A | 2 | 3"C | 4 | #4/0 AWG THWN CU. | + | 1 | #2 AWG THWN CU. | Eq. | 265 | 0.6 | 0.6 | |
| F19 | "TX3" | 460A | 2 | 3"C | 3 | #4/0 AWG THWN CU. | + | 1 | #2 AWG THWN CU. | Eq. | 150 | 0.6 | 0.6 | |
| F20 | "DP3A" | 1,000A | 4 | 3"C | 4 | #250KCMIL THWN CU. | + | 1 | #2/0 AWG THWN CU. | Eq. | 15 | 0.1 | 0.7 | |
| F21 | "P3" | 50A | 1 | 1"C | 4 | #8 AWG THWN CU. | + | 1 | #10 AWG THWN CU. | Eq. | 5 | 0.1 | 0.8 | |
| F22 | NOT USED | - | - | - | - | - | - | - | - | - | - | - | - | |
| F23 | "TX4" | 460A | 2 | 3"C | 3 | #4/0 AWG THWN CU. | + | 1 | #2 AWG THWN CU. | Eq. | 160 | 0.6 | 0.6 | |
| F24 | "DP4A" | 1,000A | 4 | 3"C | 4 | #250KCMIL THWN CU. | + | 1 | #2/0 AWG THWN CU. | Eq. | 15 | 0.1 | 0.7 | |
| F25 | "P4" | 50A | 1 | 1"C | 4 | #8 AWG THWN CU. | + | 1 | #10 AWG THWN CU. | Eq. | 5 | 0.1 | 0.8 | |
| F26 | NOT USED | - | - | - | - | - | - | - | - | - | - | - | - | |
| F27 | "TX5" | 460A | 2 | 3"C | 3 | #4/0 AWG THWN CU. | + | 1 | #2 AWG THWN CU. | Eq. | 175 | 0.7 | 0.7 | |
| F28 | "DP5A" | 1,000A | 4 | 3"C | 4 | #250KCMIL THWN CU. | + | 1 | #2/0 AWG THWN CU. | Eq. | 15 | 0.1 | 0.8 | |
| F29 | "P5" | 50A | 1 | 1"C | 4 | #8 AWG THWN CU. | + | 1 | #10 AWG THWN CU. | Eq. | 5 | 0.1 | 0.9 | |

NOTES:

1. CONDUCTOR LENGTH HAS BEEN PROVIDED AS THE BASIS OF DESIGN FOR BOTH VOLTAGE DROP AND AIC CALCULATION. CONDUCTOR LENGTH NOTED SHALL NOT BE USED FOR BIDDING OR PROCUREMENT PURPOSES. SHOULD THE ACTUAL CONDUCTOR LENGTH DIFFER FROM WHAT HAS BEEN SPECIFIED, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR REVIEW AND RE-CALCULATION AS MAY BE NECESSARY.
2. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE RATED TO WITHSTAND A MIN. OF THE CALCULATED SHORT CIRCUIT CURRENT AS REQUIRED PER DIVISION 26 SPECIFICATION SECTION 260573. THE VALUE NOTED AS BEEN INCLUDED FOR REFERENCE ONLY AND SHALL BE VERIFIED PER THE OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY.

## PANEL DP1A

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FIRST LEVEL ELECTRICAL ROOM
BUS: 1,000A FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: FREE STANDING
1,000A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: "MSB"

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 1 | M1 | | - | - | - | - | | 3279/8 | | | M | 0.85 | 2.9 | 260 | 4 | | UNIT 101 | 2 | |
| | | | | | | | | | 3620 | | | | | | | | 45/2 | | | |
| 4 | 3 | " | */3 | - | - | - | - | | | 3251/4 | | M | 0.85 | 2.9 | 260 | 4 | | " | 4 | |
| | | | | | | | | | | 3620 | | | | | | | | | | | |
| 4 | 5 | " | | - | - | - | - | | | | 2982/8 | M | 0.85 | 2.6 | 230 | 4 | 45/2 | UNIT 105 | 6 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| 4 | 7 | P1A | | - | - | - | - | | 1080 | | | M | 0.85 | 2.6 | 230 | 4 | | " | 8 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| 4 | 9 | " | */3 | - | - | - | - | | | 7920 | | M | 0.85 | 1.1 | 40 | 8 | 45/2 | UNIT 139 | 10 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| 4 | 11 | " | | - | - | - | - | | | | 9180 | M | 0.85 | 1.1 | 40 | 8 | | " | 12 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| 4 | 13 | A1 | | - | - | - | - | | 9450 | | | M | 0.85 | 1.1 | 40 | 8 | 45/2 | UNIT 140 | 14 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| 4 | 15 | " | */3 | - | - | - | - | | | 9450 | | M | 0.85 | 1.1 | 40 | 8 | | " | 16 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| 4 | 17 | " | | - | - | - | - | | | | 9450 | M | 0.85 | 1.3 | 45 | 8 | | UNIT 141 | 18 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| 4 | 19 | P1B | | - | - | - | - | | 3620 | | | M | 0.85 | 1.3 | 45 | 8 | 45/2 | " | 20 | |
| 4 | 21 | " | */3 | - | - | - | - | | | 3620 | | M | 0.85 | 1.3 | 45 | 8 | | UNIT 142 | 22 | |
| 4 | 23 | " | | - | - | - | - | | | | 3620 | M | 0.85 | 1.3 | 45 | 8 | | " | 24 | |
| | 25 | | | | | | | | 3620 | | | M | 0.85 | 2.0 | 70 | 8 | 45/2 | UNIT 143 | 26 | |
| | 27 | | | | | | | | | 3620 | | M | 0.85 | 2.0 | 70 | 8 | | " | 28 | |
| | 29 | | | | | | | | | | | | | | | | | | 30 | |
| | 31 | | | | | | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | | | | | | 42 | |
| | | | | | | | | | SUBTOTAL (VA): | | 68898 | 67844 | 62939 | | | | | |
| | | | | | | | | | CONTINUOUS: | | 0 | 0 | 0 | | | | | |
| | | | | | | | | | AMPS @ 120 | | 574 | 565 | 525 | | | | | |

TX1 LOADING: 200 KVA

DEMAND LOAD SUMMARY
CONNECTED PANEL LOAD = 199684 VA
HOTEL GUEST SUITE
RECEPTACLE LOAD (ea.) 936 VA
QTY OF HOTEL GUEST SUITES 7
TOTAL HOTEL GUEST SUITE
RECEPTACLE LOAD 6552 VA
NEC TABLE 220.42 DEMAND
FIRST 20,000 VA @50% 0 VA
FROM 20,001 - 100,000 VA @40% 0 VA
TOTAL PANEL LOAD 199684 VA
555 AMPS AT 120/208V 3-PHASE

## PANEL DP2A

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: SECOND LEVEL ELECTRICAL ROOM
BUS: 1,000A FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: FREE STANDING
1,000A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: "MSB"

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | UNIT 201 | | 6 | 140 | 2.5 | 0.85 | M | 3620 | | | M | 0.85 | 2.5 | 140 | 6 | | UNIT 202 | 2 | |
| | | | | | | | | | 3620 | | | | | | | | 45/2 | | | |
| | 3 | " " | 45/2 | 6 | 140 | 2.5 | 0.85 | M | | 3620 | | M | 0.85 | 2.5 | 140 | 6 | | " " | 4 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 5 | UNIT 203 | | 6 | 130 | 2.3 | 0.85 | M | | | 3620 | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 204 | 6 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 7 | " " | 45/2 | 6 | 130 | 2.3 | 0.85 | M | 3620 | | | M | 0.85 | 2.3 | 130 | 6 | | " " | 8 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 9 | UNIT 205 | | 6 | 120 | 2.1 | 0.85 | M | | 3620 | | M | 0.85 | 2.1 | 115 | 6 | 45/2 | UNIT 206 | 10 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 11 | " " | 45/2 | 6 | 120 | 2.1 | 0.85 | M | | | 3620 | M | 0.85 | 2.1 | 115 | 6 | | " " | 12 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 13 | UNIT 207 | | 6 | 105 | 1.9 | 0.85 | M | 3620 | | | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 208 | 14 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 15 | " " | 45/2 | 6 | 105 | 1.9 | 0.85 | M | | 3620 | | M | 0.85 | 1.9 | 105 | 6 | | " " | 16 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 17 | UNIT 209 | | 8 | 85 | 2.4 | 0.85 | M | | | 3620 | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 210 | 18 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 19 | " " | 45/2 | 8 | 85 | 2.4 | 0.85 | M | 3620 | | | M | 0.85 | 2.7 | 95 | 8 | | " " | 20 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 21 | UNIT 211 | | 8 | 80 | 2.3 | 0.85 | M | | 3620 | | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 212 | 22 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 23 | " " | 45/2 | 8 | 80 | 2.3 | 0.85 | M | | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 24 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 25 | UNIT 215 | | 8 | 70 | 2.0 | 0.85 | M | 3620 | | | M | 0.85 | 1.7 | 60 | 8 | 45/2 | UNIT 214 | 26 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 27 | " " | 45/2 | 8 | 70 | 2.0 | 0.85 | M | | 3620 | | M | 0.85 | 1.7 | 60 | 8 | | " " | 28 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 29 | UNIT 217 | | 8 | 55 | 1.6 | 0.85 | M | | | 3620 | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 216 | 30 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 31 | " " | 45/2 | 8 | 55 | 1.6 | 0.85 | M | 3620 | | | M | 0.85 | 1.4 | 50 | 8 | | " " | 32 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 33 | UNIT 219 | | 8 | 45 | 1.3 | 0.85 | M | | 3620 | | M | 0.85 | 1.1 | 40 | 8 | 45/2 | UNIT 218 | 34 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 35 | " " | 45/2 | 8 | 45 | 1.3 | 0.85 | M | | | 3620 | M | 0.85 | 1.1 | 40 | 8 | | " " | 36 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 37 | UNIT 231 | | 8 | 90 | 2.5 | 0.85 | M | 3620 | | | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 220 | 38 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 39 | " " | 45/2 | 8 | 90 | 2.5 | 0.85 | M | | 3620 | | M | 0.85 | 1.4 | 50 | 8 | | " " | 40 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 41 | UNIT 233 | | 6 | 100 | 1.8 | 0.85 | M | | | 3620 | M | 0.85 | 2.5 | 90 | 8 | 45/2 | UNIT 222 | 42 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 43 | " " | 45/2 | 6 | 100 | 1.8 | 0.85 | M | 3620 | | | M | 0.85 | 2.5 | 90 | 8 | | " " | 44 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 45 | UNIT 235 | | 6 | 115 | 2.1 | 0.85 | M | | 3620 | | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 224 | 46 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 47 | " " | 45/2 | 6 | 115 | 2.1 | 0.85 | M | | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 48 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 49 | UNIT 237 | | 6 | 120 | 2.1 | 0.85 | M | 3620 | | | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 226 | 50 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 51 | " " | 45/2 | 6 | 120 | 2.1 | 0.85 | M | | 3620 | | M | 0.85 | 1.8 | 65 | 8 | | " " | 52 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 53 | UNIT 239 | | 6 | 140 | 2.5 | 0.85 | M | | | 3620 | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 228 | 54 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 55 | " " | 45/2 | 6 | 140 | 2.5 | 0.85 | M | 3620 | | | M | 0.85 | 1.8 | 65 | 8 | | " " | 56 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 57 | UNIT 241 | | 4 | 150 | 1.7 | 0.85 | M | | 3620 | | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 230 | 58 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 59 | " " | 45/2 | 4 | 150 | 1.7 | 0.85 | M | | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 60 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 61 | UNIT 243 | | 4 | 165 | 1.9 | 0.85 | M | 3620 | | | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 232 | 62 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 63 | " " | 45/2 | 4 | 165 | 1.9 | 0.85 | M | | 3620 | | M | 0.85 | 2.7 | 95 | 8 | | " " | 64 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 65 | UNIT 240 | | 4 | 145 | 1.6 | 0.85 | M | | | 3620 | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 234 | 66 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| | 67 | " " | 45/2 | 4 | 145 | 1.6 | 0.85 | M | 3620 | | | M | 0.85 | 1.9 | 105 | 6 | | " " | 68 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| | 69 | UNIT 242 | | 4 | 155 | 1.7 | 0.85 | M | | 3620 | | M | 0.85 | 2.1 | 120 | 6 | 45/2 | UNIT 236 | 70 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| | 71 | " " | 45/2 | 4 | 155 | 1.7 | 0.85 | M | | | 3620 | M | 0.85 | 2.1 | 120 | 6 | | " " | 72 | |
| | | | | | | | | | | | 3620 | | | | | | | | | |
| 4 | 73 | PANEL P2 | | - | - | - | - | - | 1243 | | | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 238 | 74 | |
| | | | | | | | | | 3620 | | | | | | | | | | | |
| 4 | 75 | " | */3 | - | - | - | - | | | 2265 | | M | 0.85 | 2.3 | 130 | 6 | | " " | 76 | |
| | | | | | | | | | | 3620 | | | | | | | | | | |
| 4 | 77 | " | | - | - | - | - | - | | | 1260 | | | | | | | SPACE | 78 | |
| | 79 | SPACE | | | | | | | | | | | | | | | | SPACE | 80 | |
| | 81 | SPACE | | | | | | | | | | | | | | | | SPACE | 82 | |
| | 83 | SPACE | | | | | | | | | | | | | | | | SPACE | 84 | |
| | | | | | | | | | SUBTOTAL (VA): | | 91740 | 92765 | 88140 | | | | | |
| | | | | | | | | | CONTINUOUS: | | 0 | 0 | 0 | | | | | |
| | | | | | | | | | AMPS @ 120 | | 765 | 773 | 735 | | | | | |

TX2 LOADING: 258 KVA

DEMAND LOAD SUMMARY
CONNECTED PANEL LOAD = 272650 VA
HOTEL GUEST SUITE
RECEPTACLE LOAD (ea.) 936 VA
QTY OF HOTEL GUEST SUITES 37
TOTAL HOTEL GUEST SUITE
RECEPTACLE LOAD 34632 VA
NEC TABLE 220.42 DEMAND
FIRST 20,000 VA @50% 10000 VA
FROM 20,001 - 100,000 VA @40% 9853 VA
TOTAL PANEL LOAD 257871 VA
736 AMPS AT 120/208V, 3-PHASE

## MAIN SERVICE SWITCHGEAR "MSB"

TYPE: SWITCHGEAR (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FIRST LEVEL ELECTRICAL ROOM
BUS: 2,500 FULL SIZE BOLT ON NEMA: 1
277/480V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: FREE STANDING
2,500A MAIN CIRCUIT BREAKER, GFI PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: PG&E

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | SPD | | - | - | - | - | | 3259/8 | | | | | | | | | DP4A | 2 | 4 |
| | | | | | | | | | | 4702/8 | | | | | | | | | | |
| | 3 | " | | - | - | - | - | | | | 5418/9 | - | - | - | - | - | */3 | " | 4 | 4 |
| | 5 | " | | - | - | - | - | | | | | - | - | - | - | - | | " | 6 | 4 |
| 4 | 7 | TX1 / DP1A | | - | - | - | - | | 6889/8 | | | - | - | - | - | - | | INV1 | 8 | 4 |
| | | | | | | | | | 9335 | | | | | | | | | | | |
| 4 | 9 | " | */3 | - | - | - | - | | | 6784/7 | | - | - | - | - | - | */3 | " | 10 | 4 |
| | | | | | | | | | | 6955 | | | | | | | | | | |
| 4 | 11 | " | | - | - | - | - | | | | 6293/9 | - | - | - | - | - | | " | 12 | 4 |
| | | | | | | | | | | | 8819 | | | | | | | | | |
| | 13 | SPARE (FUTURE POOL / SPA - ESTI. 132KVA) | | - | - | - | - | | 3656/4 | | | | | | | | | SPACE (200A PROV) | 14 | |
| | 15 | " | */3 | - | - | - | - | | | 3656/4 | | | | | | | */3 | " | 16 | |
| | 17 | " | | - | - | - | - | | | | 3656/4 | | | | | | | " | 18 | |
| 4 | 19 | TX2 / DP12 | | - | - | - | - | | 8595/6 | | | | | | | | | SPACE (200A PROV) | 20 | |
| 4 | 21 | " | */3 | - | - | - | - | | | 8595/6 | | | | | | | */3 | " | 22 | |
| 4 | 23 | " | | - | - | - | - | | | | 8595/6 | | | | | | | " | 24 | |
| 4 | 25 | TX3 / DP13 | | - | - | - | - | | 8459/6.9 | | | | | | | | | SPACE (600A PROV) | 26 | |
| 4 | 27 | " | */3 | - | - | - | - | | | 8459/6.93 | | | | | | | */3 | " | 28 | |
| 4 | 29 | " | | - | - | - | - | | | | 8459/6.9 | | | | | | | " | 30 | |
| 4 | 31 | TX4 / DP14 | | - | - | - | - | | 8459/6.9 | | | | | | | | | | 32 | |
| 4 | 33 | " | */3 | - | - | - | - | | | 8459/6.93 | | | | | | | | | 34 | |
| 4 | 35 | " | | - | - | - | - | | | | 8459/6.9 | | | | | | | | 36 | |
| 4 | 37 | TX5 / DP15 | | - | - | - | - | | 8930/6 | | | | | | | | | | 38 | |
| 4 | 39 | " | */3 | - | - | - | - | | | 8930/6.6 | | | | | | | | | 40 | |
| 4 | 41 | " | | - | - | - | - | | | | 8930/6.6 | | | | | | | | 42 | |
| | | | | | | | | | SUBTOTAL (VA): | | 51184 | 50848.4 | 50696 | | | | | |
| | | | | | | | | | CONTINUOUS: | | 0 | 0 | 0 | | | | | |
| | | | | | | | | | AMPS @ 277 | | 1848 | 1835 | 1830 | | | | | |

## TYPICAL GUEST UNIT

TYPE LOAD CENTER (VARIES) AIC PANEL & BRANCH CIRCUITS LOCATION: (VARIES)
BUS: 100A 16 FULL SIZE PLUG IN NEMA: 1
120/208V, 1-PHASE, 3W CIRCUIT BREAKER SPACES MOUNTING: FLUSH
45A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: (VARIES)

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2, 3 | 1 | LIGHTING/RECEPTACLES | 20/1 AFCI | 12 | 50 | 0.7 | 0.7 | C | 312 | | | | | | | 20/1 | SPARE | 2 | |
| | | | | | | | | | | 312 | | | | | | | | | |
| 2, 3 | 3 | LIGHTING/RECEPTACLES | 20/1 AFCI | 12 | 50 | 0.7 | 0.7 | C | | | | | | | | 20/1 | SPARE | 4 | |
| 1, 2, 3 | 5 | SMOKE DETECTOR/VISUAL & AUDIO SPORE | 20/1 AFCI | 12 | 50 | 0.6 | 0.85 | G | 312<br>1200 | | K | 0.9 | 1 | 50 | 12 | 20/1 | REFRIGERATOR | 6 | 3 |
| 3 | 7 | PSAC-1 | 15/2 | 12 | 50 | 1 | 0.85 | G | | 1103<br>1200 | K | 0.9 | 1 | 50 | 12 | 20/1 | MICROWAVE | 8 | 3 |
| 3 | 9 | " " | | 12 | 50 | 1 | 0.85 | G | 1103<br>1200 | | K | 0.9 | 1 | 50 | 12 | 20/1 | DISWASHER | 10 | 3 |
| | 11 | SPARE | 20/1 | | | | | | | 1656 | K | 0.9 | 1.4 | 50 | 12 | 20/1 | GABAGE DISPOSAL | 12 | 3 |
| | 13 | SPARE | 20/1 | | | | | | | | | | | | | 20/1 | SPARE | 14 | |
| | 15 | SPARE | 20/1 | | | | | | | | | | | | | 20/1 | SPARE | 16 | |
| | | | | | | | | | SUBTOTAL (VA): | | 4127 | 4271 | | | | | | |
| | | | | | | | | | CONTINUOUS: | | 78 | 78 | | | | | | |
| | | | | | | | | | AMPS @ 120 | | 34 | 36 | | | | | | |

LOAD SUMMARY
PANEL LOAD = 8554 VA
APPLIANCE LOAD 5256 VA
APPLIANCE DEMAND (CEC 220.53) - 75% + 3942 VA
ADJUSTED DEMAND LOAD = 7240 VA
35 AMPS AT 120/208V, 1-PHASE

LOAD TYPE LEGEND
C CONTINUOUS
K KITCHEN
M MECHANICAL
R RECEPTACLE

## TRANSFORMER "TX6" LOAD SUMMARY

| NOTES | DESCRIPTION | PHASE A | PHASE B | PHASE C | DESCRIPTION | NOTES |
|---|---|---|---|---|---|---|
| | PANEL "M16" | 11124<br>7386 | | | PANEL "M16" (INV2) | |
| | - | | 13119<br>9098 | | - | |
| | - | | | 16701<br>8680 | - | |
| | | 24510 | 18217 | 25381 | | |
| | TRANSFORMER LOAD SUMMARY 68 KVA | | | | | |

## PANEL SCHEDULE NOTES

NOTES ARE TYPICAL FOR SHEETS E1.2 - E1.5

PANEL SCHEDULE LOAD TYPE INDEX:
"C" = CONTINUOUS LOAD, OPERABLE FOR 3 HOURS OR MORE. LOAD CALCULATED AT 125% OF TOTAL CONNECTED LOAD.
"K" = KITCHEN APPLIANCE LOAD, SUBJECT TO 75% DEMAND FACTOR PER NEC 220.53 IF GREATER THAN/EQUAL TO FOUR APPLIANCES.
"M"= MECHANICAL LOAD, NO DEMAND FACTOR APPLIED.
"R" = RECEPTACLE LOAD.
"G"= GENERAL LOAD.

GENERAL NOTES:
* VOLTAGE DROP CALCULATIONS HAVE BEEN PREPARED IN ACCORDANCE TO 2013 NON RESIDENTIAL STANDARDS (TITLE 24, ELECTRCIAL POWER DISTRIBUTION). CONDUCTOR LENGTH SHALL INDICATED SHALL NOT BE USED FOR BIDDING AND PROCUREMENT PURPOSES. FIELD COORDINATE CONDUCTOR LENGTH REQUIRED AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
- FOR CIRCUITS WITH MULTIPLE LOADS (I.E. RECEPTACLES, LIGHTING) THE CIRCUIT ESTIMATED LENGTH IS DETERMINED AT THE CENTER OF ALL POSSIBLE LOAD LOCATIONS (FOR EXAMPLE, THE PHYSICAL CENTER OF THE ROOM).
- WHERE BRANCH CIRCUITS HAVE NOT BEEN LOADED TO THE MAXIMUM ALLOWABLE CIRCUIT CAPACITY, VOLTAGE DROP CALCULATIONS HAVE BEEN PREPARED ASSUMING A LOAD OF 75% OF THE MAXIMUM ALLOWABLE CIRCUIT CAPACITY.

VOLTAGE DROP CALCULATION:

VOLTAGE DROP (%) = (2 x OHMS PER 1000 LF x CONDUCTOR LENGTH x AMPS) / (1000 x QTY OF WIRES PER PHASE)

SCHEDULE SPECIFIC NOTES:
1. PROVIDE CIRCUIT BREAKER LOCKING DEVICE, "RED".
2. RECEPTACLE SHALL BE "AFCI" TYPE.
3. LINEAR FEET, AS INDICATED, SHALL BE THE MAXIMUM PERMITTED PURSUANT TO VOLTAGE DROP CALCULATIONS.
4. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULE FOR CIRCUIT BREAKER AMPACITY RATING AND FEEDER SPECIFICATION.

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## PANEL DP5A

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FIFTH LEVEL ELECTRICAL ROOM
BUS: 1,000A FULL SIZE BOLT-ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: FREE STANDING
1,000A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: "MSB"

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | UNIT 501 | 45/2 | 6 | 140 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.5 | 140 | 6 | 45/2 | UNIT 502 | 2 | |
| | 3 | " " | | 6 | 140 | 2.5 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.5 | 140 | 6 | | " " | 4 | |
| | 5 | UNIT 503 | 45/2 | 6 | 130 | 2.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 504 | 6 | |
| | 7 | " " | | 6 | 130 | 2.3 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.3 | 130 | 6 | | " " | 8 | |
| | 9 | UNIT 505 | 45/2 | 6 | 120 | 2.1 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 115 | 6 | 45/2 | UNIT 506 | 10 | |
| | 11 | " " | | 6 | 120 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 115 | 6 | | " " | 12 | |
| | 13 | UNIT 507 | 45/2 | 6 | 105 | 1.9 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 508 | 14 | |
| | 15 | " " | | 6 | 105 | 1.9 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.9 | 105 | 6 | | " " | 16 | |
| | 17 | UNIT 509 | 45/2 | 8 | 85 | 2.4 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 510 | 18 | |
| | 19 | " " | | 8 | 85 | 2.4 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.7 | 95 | 8 | | " " | 20 | |
| | 21 | UNIT 511 | 45/2 | 8 | 80 | 2.3 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 512 | 22 | |
| | 23 | " " | | 8 | 80 | 2.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 24 | |
| | 25 | UNIT 515 | 45/2 | 8 | 70 | 2.0 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.7 | 60 | 8 | 45/2 | UNIT 514 | 26 | |
| | 27 | " " | | 8 | 70 | 2.0 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.7 | 60 | 8 | | " " | 28 | |
| | 29 | UNIT 517 | 45/2 | 8 | 55 | 1.6 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 516 | 30 | |
| | 31 | " " | | 8 | 55 | 1.6 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.4 | 50 | 8 | | " " | 32 | |
| | 33 | UNIT 519 | 45/2 | 8 | 45 | 1.3 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.1 | 40 | 8 | 45/2 | UNIT 518 | 34 | |
| | 35 | " " | | 8 | 45 | 1.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.1 | 40 | 8 | | " " | 36 | |
| | 37 | UNIT 521 | 45/2 | 8 | 90 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 520 | 38 | |
| | 39 | " " | | 8 | 90 | 2.5 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.4 | 50 | 8 | | " " | 40 | |
| | 41 | UNIT 523 | 45/2 | 6 | 100 | 1.8 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.5 | 90 | 8 | 45/2 | UNIT 522 | 42 | |
| | 43 | " " | | 6 | 100 | 1.8 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.5 | 90 | 8 | | " " | 44 | |
| | 45 | UNIT 525 | 45/2 | 6 | 115 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 524 | 46 | |
| | 47 | " " | | 6 | 115 | 2.1 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 48 | |
| | 49 | UNIT 527 | 45/2 | 6 | 120 | 2.1 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 526 | 50 | |
| | 51 | " " | | 6 | 120 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.8 | 65 | 8 | | " " | 52 | |
| | 53 | UNIT 529 | 45/2 | 6 | 140 | 2.5 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 528 | 54 | |
| | 55 | " " | | 6 | 140 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.8 | 65 | 8 | | " " | 56 | |
| | 57 | UNIT 531 | 45/2 | 4 | 150 | 1.7 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 530 | 58 | |
| | 59 | " " | | 4 | 150 | 1.7 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 60 | |
| | 61 | UNIT 533 | 45/2 | 4 | 165 | 1.9 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 532 | 62 | |
| | 63 | " " | | 4 | 165 | 1.9 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.7 | 95 | 8 | | " " | 64 | |
| | 65 | UNIT 540 | 45/2 | 4 | 145 | 1.6 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 534 | 66 | |
| | 67 | " " | | 4 | 145 | 1.6 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.9 | 105 | 6 | | " " | 68 | |
| | 69 | UNIT 542 | 45/2 | 4 | 155 | 1.7 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.1 | 120 | 6 | 45/2 | UNIT 536 | 70 | |
| | 71 | " " | | 4 | 155 | 1.7 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 120 | 6 | | " " | 72 | |
| 4 | 73 | PANEL P5 | 50/3 | - | - | - | - | - | 345 | 3620 | | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 538 | 74 | |
| 4 | 75 | " | | - | - | - | - | - | 345 | 345 | 3620 | M | 0.85 | 2.3 | 130 | 6 | | " " | 76 | |
| 4 | 77 | " | | - | - | - | - | - | | | 0 | | | | | | | SPACE | 78 | |
| 4 | 79 | PANEL P6 | | - | - | - | - | - | 49140 | | | | | | | | | SPACE | 80 | |
| 4 | 81 | " | 50/3 | - | - | - | - | - | | 4580 | | | | | | | | SPACE | 82 | |
| 4 | 83 | " | | - | - | - | - | - | | | 4600 | | | | | | | SPACE | 84 | |
| | | | | | | | | | SUBTOTAL (VA): | 95785 | 95425 | 91480 | | | | | | | | |
| | | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | |
| | | | | | | | | | AMPS @ 120: | 798 | 795 | 762 | | | | | | | | |

TXS LOADING: 268 KVA

DEMAND LOAD SUMMARY
CONNECTED PANEL LOAD = 282690 VA
HOTEL GUEST SUITE
RECEPTACLE LOAD (ea.) 936 VA
QTY OF HOTEL GUEST SUITES 37
TOTAL HOTEL GUEST SUITE
RECEPTACLE LOAD 34632 VA
NEC TABLE 220.42 DEMAND
FIRST 20,000 VA @50% 10000 VA
FROM 20,001 - 100,000 VA @40% 9853 VA
TOTAL PANEL LOAD 267911 VA

744 AMPS AT 120/208V, 3-PHASE

## PANEL DP4A

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FOURTH LEVEL ELECTRICAL ROOM
BUS: 1,000A FULL SIZE BOLT-ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: FREE STANDING
1,000A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: "MSB"

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | UNIT 401 | 45/2 | 6 | 140 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.5 | 140 | 6 | 45/2 | UNIT 402 | 2 | |
| | 3 | " " | | 6 | 140 | 2.5 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.5 | 140 | 6 | | " " | 4 | |
| | 5 | UNIT 403 | 45/2 | 6 | 130 | 2.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 404 | 6 | |
| | 7 | " " | | 6 | 130 | 2.3 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.3 | 130 | 6 | | " " | 8 | |
| | 9 | UNIT 405 | 45/2 | 6 | 120 | 2.1 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 115 | 6 | 45/2 | UNIT 406 | 10 | |
| | 11 | " " | | 6 | 120 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 115 | 6 | | " " | 12 | |
| | 13 | UNIT 407 | 45/2 | 6 | 105 | 1.9 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 408 | 14 | |
| | 15 | " " | | 6 | 105 | 1.9 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.9 | 105 | 6 | | " " | 16 | |
| | 17 | UNIT 409 | 45/2 | 8 | 85 | 2.4 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 410 | 18 | |
| | 19 | " " | | 8 | 85 | 2.4 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.7 | 95 | 8 | | " " | 20 | |
| | 21 | UNIT 411 | 45/2 | 8 | 80 | 2.3 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 412 | 22 | |
| | 23 | " " | | 8 | 80 | 2.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 24 | |
| | 25 | UNIT 415 | 45/2 | 8 | 70 | 2.0 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.7 | 60 | 8 | 45/2 | UNIT 414 | 26 | |
| | 27 | " " | | 8 | 70 | 2.0 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.7 | 60 | 8 | | " " | 28 | |
| | 29 | UNIT 417 | 45/2 | 8 | 55 | 1.6 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 416 | 30 | |
| | 31 | " " | | 8 | 55 | 1.6 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.4 | 50 | 8 | | " " | 32 | |
| | 33 | UNIT 419 | 45/2 | 8 | 45 | 1.3 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.1 | 40 | 8 | 45/2 | UNIT 418 | 34 | |
| | 35 | " " | | 8 | 45 | 1.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.1 | 40 | 8 | | " " | 36 | |
| | 37 | UNIT 431 | 45/2 | 8 | 90 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 420 | 38 | |
| | 39 | " " | | 8 | 90 | 2.5 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.4 | 50 | 8 | | " " | 40 | |
| | 41 | UNIT 433 | 45/2 | 6 | 100 | 1.8 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.5 | 90 | 8 | 45/2 | UNIT 422 | 42 | |
| | 43 | " " | | 6 | 100 | 1.8 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.5 | 90 | 8 | | " " | 44 | |
| | 45 | UNIT 435 | 45/2 | 6 | 115 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 424 | 46 | |
| | 47 | " " | | 6 | 115 | 2.1 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 48 | |
| | 49 | UNIT 437 | 45/2 | 6 | 120 | 2.1 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 426 | 50 | |
| | 51 | " " | | 6 | 120 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.8 | 65 | 8 | | " " | 52 | |
| | 53 | UNIT 439 | 45/2 | 6 | 140 | 2.5 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 428 | 54 | |
| | 55 | " " | | 6 | 140 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.8 | 65 | 8 | | " " | 56 | |
| | 57 | UNIT 441 | 45/2 | 4 | 150 | 1.7 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 430 | 58 | |
| | 59 | " " | | 4 | 150 | 1.7 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 60 | |
| | 61 | UNIT 443 | 45/2 | 4 | 165 | 1.9 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 432 | 62 | |
| | 63 | " " | | 4 | 165 | 1.9 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.7 | 95 | 8 | | " " | 64 | |
| | 65 | UNIT 440 | 45/2 | 4 | 145 | 1.6 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 434 | 66 | |
| | 67 | " " | | 4 | 145 | 1.6 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.9 | 105 | 6 | | " " | 68 | |
| | 69 | UNIT 442 | 45/2 | 4 | 155 | 1.7 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.1 | 120 | 6 | 45/2 | UNIT 436 | 70 | |
| | 71 | " " | | 4 | 155 | 1.7 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 120 | 6 | | " " | 72 | |
| 4 | 73 | PANEL P4 | *1/3 | - | - | - | - | - | 345 | 3620 | | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 438 | 74 | |
| 4 | 75 | " | | - | - | - | - | - | 345 | 345 | 3620 | M | 0.85 | 2.3 | 130 | 6 | | " " | 76 | |
| 4 | 77 | " | | - | - | - | - | - | | | 0 | | | | | | | SPACE | 78 | |
| | 79 | | | | | | | | | | | | | | | | | SPACE | 80 | |
| | 81 | | | | | | | | | | | | | | | | | SPACE | 82 | |
| | 83 | | | | | | | | | | | | | | | | | SPACE | 84 | |
| | | | | | | | | | SUBTOTAL (VA): | 90843 | 90843 | 86880 | | | | | | | | |
| | | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | |
| | | | | | | | | | AMPS @ 120: | 757 | 757 | 724 | | | | | | | | |

TXA LOADING: 264 KVA

DEMAND LOAD SUMMARY
CONNECTED PANEL LOAD = 268570 VA
HOTEL GUEST SUITE
RECEPTACLE LOAD (ea.) 936 VA
QTY OF HOTEL GUEST SUITES 37
TOTAL HOTEL GUEST SUITE
RECEPTACLE LOAD 34632 VA
NEC TABLE 220.42 DEMAND
FIRST 20,000 VA @50% 10000 VA
FROM 20,001 - 100,000 VA @40% 9853 VA
TOTAL PANEL LOAD 253791 VA

705 AMPS AT 120/208V, 3-PHASE

## PANEL DP3A

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: THIRD LEVEL ELECTRICAL ROOM
BUS: 1,000A FULL SIZE BOLT-ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: FREE STANDING
1,000A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: "MSB"

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | UNIT 301 | 45/2 | 6 | 140 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.5 | 140 | 6 | 45/2 | UNIT 302 | 2 | |
| | 3 | " " | | 6 | 140 | 2.5 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.5 | 140 | 6 | | " " | 4 | |
| | 5 | UNIT 303 | 45/2 | 6 | 130 | 2.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 304 | 6 | |
| | 7 | " " | | 6 | 130 | 2.3 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.3 | 130 | 6 | | " " | 8 | |
| | 9 | UNIT 305 | 45/2 | 6 | 120 | 2.1 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 115 | 6 | 45/2 | UNIT 306 | 10 | |
| | 11 | " " | | 6 | 120 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 115 | 6 | | " " | 12 | |
| | 13 | UNIT 307 | 45/2 | 6 | 105 | 1.9 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 308 | 14 | |
| | 15 | " " | | 6 | 105 | 1.9 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.9 | 105 | 6 | | " " | 16 | |
| | 17 | UNIT 309 | 45/2 | 8 | 85 | 2.4 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 310 | 18 | |
| | 19 | " " | | 8 | 85 | 2.4 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.7 | 95 | 8 | | " " | 20 | |
| | 21 | UNIT 311 | 45/2 | 8 | 80 | 2.3 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 312 | 22 | |
| | 23 | " " | | 8 | 80 | 2.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 24 | |
| | 25 | UNIT 315 | 45/2 | 8 | 70 | 2.0 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.7 | 60 | 8 | 45/2 | UNIT 314 | 26 | |
| | 27 | " " | | 8 | 70 | 2.0 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.7 | 60 | 8 | | " " | 28 | |
| | 29 | UNIT 317 | 45/2 | 8 | 55 | 1.6 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 316 | 30 | |
| | 31 | " " | | 8 | 55 | 1.6 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.4 | 50 | 8 | | " " | 32 | |
| | 33 | UNIT 319 | 45/2 | 8 | 45 | 1.3 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.1 | 40 | 8 | 45/2 | UNIT 318 | 34 | |
| | 35 | " " | | 8 | 45 | 1.3 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.1 | 40 | 8 | | " " | 36 | |
| | 37 | UNIT 331 | 45/2 | 8 | 90 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.4 | 50 | 8 | 45/2 | UNIT 320 | 38 | |
| | 39 | " " | | 8 | 90 | 2.5 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.4 | 50 | 8 | | " " | 40 | |
| | 41 | UNIT 333 | 45/2 | 6 | 100 | 1.8 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.5 | 90 | 8 | 45/2 | UNIT 322 | 42 | |
| | 43 | " " | | 6 | 100 | 1.8 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.5 | 90 | 8 | | " " | 44 | |
| | 45 | UNIT 335 | 45/2 | 6 | 115 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 324 | 46 | |
| | 47 | " " | | 6 | 115 | 2.1 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 48 | |
| | 49 | UNIT 337 | 45/2 | 6 | 120 | 2.1 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 326 | 50 | |
| | 51 | " " | | 6 | 120 | 2.1 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.8 | 65 | 8 | | " " | 52 | |
| | 53 | UNIT 339 | 45/2 | 6 | 140 | 2.5 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.8 | 65 | 8 | 45/2 | UNIT 328 | 54 | |
| | 55 | " " | | 6 | 140 | 2.5 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 1.8 | 65 | 8 | | " " | 56 | |
| | 57 | UNIT 341 | 45/2 | 4 | 150 | 1.7 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 75 | 8 | 45/2 | UNIT 330 | 58 | |
| | 59 | " " | | 4 | 150 | 1.7 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 2.1 | 75 | 8 | | " " | 60 | |
| | 61 | UNIT 343 | 45/2 | 4 | 165 | 1.9 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.7 | 95 | 8 | 45/2 | UNIT 332 | 62 | |
| | 63 | " " | | 4 | 165 | 1.9 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.7 | 95 | 8 | | " " | 64 | |
| | 65 | UNIT 340 | 45/2 | 4 | 145 | 1.6 | 0.85 | M | 3620 | | 3620 | M | 0.85 | 1.9 | 105 | 6 | 45/2 | UNIT 334 | 66 | |
| | 67 | " " | | 4 | 145 | 1.6 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 1.9 | 105 | 6 | | " " | 68 | |
| | 69 | UNIT 342 | 45/2 | 4 | 155 | 1.7 | 0.85 | M | 3620 | 3620 | | M | 0.85 | 2.1 | 120 | 6 | 45/2 | UNIT 336 | 70 | |
| | 71 | " " | | 4 | 155 | 1.7 | 0.85 | M | | 3620 | 3620 | M | 0.85 | 2.1 | 120 | 6 | | " " | 72 | |
| 4 | 73 | PANEL P3 | *1/3 | - | - | - | - | - | 345 | 3620 | | M | 0.85 | 2.3 | 130 | 6 | 45/2 | UNIT 338 | 74 | |
| 4 | 75 | " | | - | - | - | - | - | 345 | 345 | 3620 | M | 0.85 | 2.3 | 130 | 6 | | " " | 76 | |
| 4 | 77 | " | | - | - | - | - | - | | | 0 | | | | | | | SPACE | 78 | |
| | 79 | SPACE | | | | | | | | | | | | | | | | SPACE | 80 | |
| | 81 | SPACE | | | | | | | | | | | | | | | | SPACE | 82 | |
| | 83 | SPACE | | | | | | | | | | | | | | | | SPACE | 84 | |
| | | | | | | | | | SUBTOTAL (VA): | 90843 | 90843 | 86880 | | | | | | | | |
| | | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | |
| | | | | | | | | | AMPS @ 120: | 757 | 757 | 724 | | | | | | | | |

TX3 LOADING: 254 KVA

DEMAND LOAD SUMMARY
CONNECTED PANEL LOAD = 268570 VA
HOTEL GUEST SUITE
RECEPTACLE LOAD (ea.) 936 VA
QTY OF HOTEL GUEST SUITES 37
TOTAL HOTEL GUEST SUITE
RECEPTACLE LOAD 34632 VA
NEC TABLE 220.42 DEMAND
FIRST 20,000 VA @50% 10000 VA
FROM 20,001 - 100,000 VA @40% 9853 VA
TOTAL PANEL LOAD 253791 VA

705 AMPS AT 120/208V, 3-PHASE

## PANEL DP6A

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: ROOF LEVEL
BUS: 400A FULL SIZE BOLT-ON NEMA: 1
277/480V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
400A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: "MSB"

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 1 | ELEVATOR #1 | | - | - | - | - | - | 14404 | | | | | | | | | SPACE | 2 | |
| 4 | 3 | " | *1/3 | - | - | - | - | - | | 14404 | | | | | | | | SPACE | 4 | |
| 4 | 5 | " | | - | - | - | - | - | | | 14404 | | | | | | | SPACE | 6 | |
| 4 | 7 | ELEVATOR #2 | | - | - | - | - | - | 14404 | | | | | | | | | SPACE | 8 | |
| 4 | 9 | " | *1/3 | - | - | - | - | - | | 14404 | | | | | | | | SPACE | 10 | |
| 4 | 11 | " | | - | - | - | - | - | | | 14404 | | | | | | | SPACE | 12 | |
| 4 | 13 | T66 | | - | - | - | - | - | 24010 | | | | | | | | | SPACE | 14 | |
| 4 | 15 | " | *1/3 | - | - | - | - | - | | 18017 | | | | | | | | SPACE | 16 | |
| 4 | 17 | " | | - | - | - | - | - | | | 25381 | | | | | | | SPACE | 18 | |
| | 19 | SPACE | | | | | | | | | | | | | | | | SPACE | 20 | |
| | 21 | SPACE | | | | | | | | | | | | | | | | SPACE | 22 | |
| | 23 | SPACE | | | | | | | | | | | | | | | | SPACE | 24 | |
| | 25 | SPACE | | | | | | | | | | | | | | | | SPACE | 26 | |
| | 27 | SPACE | | | | | | | | | | | | | | | | SPACE | 28 | |
| | 29 | SPACE | | | | | | | | | | | | | | | | SPACE | 30 | |
| | 31 | SPACE | | | | | | | | | | | | | | | | SPACE | 32 | |
| | 33 | SPACE | | | | | | | | | | | | | | | | SPACE | 34 | |
| | 35 | SPACE | | | | | | | | | | | | | | | | SPACE | 36 | |
| | 37 | SPACE | | | | | | | | | | | | | | | | SPACE | 38 | |
| | 39 | SPACE | | | | | | | | | | | | | | | | SPACE | 40 | |
| | 41 | SPACE | | | | | | | | | | | | | | | | SPACE | 42 | |
| | | | | | | | | | SUBTOTAL (VA): | 53018 | 47025 | 54189 | | | | | | | | |
| | | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | |
| | | | | | | | | | AMPS @ 277: | 192 | 170 | 196 | | | | | | | | |

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EXPIRES: 12-31-2017
GECE PROJECT #1635

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SOUTH SAN FRANCISCO, CA 94080

PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**ELECTRICAL SCHEDULES**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**
DATE
August 29, 2017
SHEET
E1.3

## PANEL P5

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FIFTH LEVEL ELECTRICAL ROOM
BUS: 100A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
50A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: "DPSA"

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | FC-17 | 20/2 | 12 | | | 0.85 | M | 345 | | | | | | | | | | 2 | |
| | 3 | " " | | 12 | | | 0.85 | M | | 345 | | | | | | | | | 4 | |
| | 5 | | | | | | | | | | | | | | | | | | 6 | |
| | 7 | | | | | | | | | | | | | | | | | | 8 | |
| | 9 | | | | | | | | | | | | | | | | | | 10 | |
| | 11 | | | | | | | | | | | | | | | | | | 12 | |
| | 13 | | | | | | | | | | | | | | | | | | 14 | |
| | 15 | | | | | | | | | | | | | | | | | | 16 | |
| | 17 | | | | | | | | | | | | | | | | | | 18 | |
| | 19 | | | | | | | | | | | | | | | | | | 20 | |
| | 21 | | | | | | | | | | | | | | | | | | 22 | |
| | 23 | | | | | | | | | | | | | | | | | | 24 | |
| | 25 | | | | | | | | | | | | | | | | | | 26 | |
| | 27 | | | | | | | | | | | | | | | | | | 28 | |
| | 29 | | | | | | | | | | | | | | | | | | 30 | |
| | 31 | | | | | | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | | | | | | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 345 | 345 | 0 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 3 | 3 | 0 | | | | | | | | | |

## PANEL P2

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: THIRD LEVEL ELECTRICAL ROOM
BUS: 100A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
50A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: DPSA

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | FC-14 | 20/2 | 12 | | | 0.85 | M | 345 | | | | | | | | | | 2 | |
| | 3 | " " | | 12 | | | 0.85 | M | | 345 | | | | | | | | | 4 | |
| | 5 | 2ND FLOOR COORIDOR CONV. RECEPTACLE | 20/1 | 12 | | | 0.6 | R | | | 900 | | | | | | | | 6 | |
| | 7 | 2ND FLOOR COORIDOR CONV. RECEPTACLE | 20/1 | 12 | | | 0.6 | R | 900 | | | | | | | | | | 8 | |
| | 9 | ICE MACHINE | 25/1 | 12 | | | 0.85 | G | | 1920 | | | | | | | | | 10 | |
| | 11 | LINEN CONV. RECEPTACLES | 20/1 | 12 | | | 0.6 | R | | | 360 | | | | | | | | 12 | |
| | 13 | | | | | | | | | | | | | | | | | | 14 | |
| | 15 | | | | | | | | | | | | | | | | | | 16 | |
| | 17 | | | | | | | | | | | | | | | | | | 18 | |
| | 19 | | | | | | | | | | | | | | | | | | 20 | |
| | 21 | | | | | | | | | | | | | | | | | | 22 | |
| | 23 | | | | | | | | | | | | | | | | | | 24 | |
| | 25 | | | | | | | | | | | | | | | | | | 26 | |
| | 27 | | | | | | | | | | | | | | | | | | 28 | |
| | 29 | | | | | | | | | | | | | | | | | | 30 | |
| | 31 | | | | | | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | | | | | | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 1245 | 2265 | 1260 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 10 | 19 | 11 | | | | | | | | | |

## PANEL A1

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FIRST LEVEL ELECTRICAL ROOM
BUS: 225A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
MAIN LUGS ONLY PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: DPTA

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | LAUNDRY | 20/3 | 10 | 230 | 1.2 | 0.85 | G | 600 | | | G | 0.85 | 2.3 | 220 | 8 | 40/3 | DRYER | 2 | |
| | | | | | | | | | 1920 | | | | | | | | | | | |
| | 3 | " | | 10 | 230 | 1.2 | 0.85 | G | | 600 | | G | 0.85 | 2.3 | 220 | 8 | | " | 4 | |
| | | | | | | | | | | 1920 | | | | | | | | | | |
| | 5 | " | | 10 | 230 | 1.2 | 0.85 | G | | | 600 | G | 0.85 | 2.3 | 220 | 8 | | " | 6 | |
| | | | | | | | | | | | 1920 | | | | | | | | | |
| | 7 | LAUNDRY | | 10 | 225 | 1.2 | 0.85 | G | 600 | | | G | 0.85 | 2.2 | 215 | 8 | | DRYER | 8 | |
| | | | | | | | | | 1920 | | | | | | | | | | | |
| | 9 | " | | 10 | 225 | 1.2 | 0.85 | G | | 600 | | G | 0.85 | 2.2 | 215 | 8 | | " | 10 | |
| | | | | | | | | | | 1920 | | | | | | | | | | |
| | 11 | " | | 10 | 225 | 1.2 | 0.85 | G | | | 600 | G | 0.85 | 2.2 | 215 | 8 | | " | 12 | |
| | | | | | | | | | | | 1920 | | | | | | | | | |
| | 13 | LAUNDRY | | 12 | 220 | 1.1 | 0.85 | G | 600 | | | G | 0.85 | 2.2 | 210 | 8 | | DRYER | 14 | |
| | | | | | | | | | 1920 | | | | | | | | | | | |
| | 15 | " | | 12 | 220 | 1.1 | 0.85 | G | | 600 | | G | 0.85 | 2.2 | 210 | 8 | | " | 16 | |
| | | | | | | | | | | 1920 | | | | | | | | | | |
| | 17 | " | | 12 | 220 | 1.1 | 0.85 | G | | | 600 | G | 0.85 | 2.2 | 210 | 8 | | " | 18 | |
| | | | | | | | | | | | 1920 | | | | | | | | | |
| | 19 | (RESERVED) - 1ST FLOOR APPLIANCE | 20/1 | | | | 0.9 | K | 1200 | | | | | | | | | SPACE | 20 | |
| | 21 | TOASTER OVEN | 20/1 | | | | 0.9 | K | | 1200 | | | | | | | | SPACE | 22 | |
| | 23 | MICROWAVE | 20/1 | | | | 0.9 | K | | | 1200 | | | | | | | SPACE | 24 | |
| | 25 | (RESERVED) - 1ST FLOOR APPLIANCE | 20/1 | | | | 0.9 | K | 1200 | | | | | | | | | SPACE | 26 | |
| | 27 | KETTLE RETHERMALIZER | 20/1 | | | | 0.9 | K | | 1200 | | | | | | | | SPACE | 28 | |
| | 29 | REFRIGERATOR | 20/1 | | | | 0.9 | K | | | 1200 | | | | | | | SPACE | 30 | |
| | 31 | JUICE DISPENSER | 20/1 | | | | 0.9 | K | 1200 | | | | | | | | | SPACE | 32 | |
| | 33 | SPACE | | | | | | | | | | | | | | | | SPACE | 34 | |
| | 35 | SPACE | | | | | | | | | | | | | | | | SPACE | 36 | |
| | 37 | SPACE | | | | | | | | | | | | | | | | SPACE | 38 | |
| | 39 | SPACE | | | | | | | | | | | | | | | | SPACE | 40 | |
| | 41 | SPACE | | | | | | | | | | | | | | | | SPACE | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 11160 | 9960 | 9960 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 93 | 83 | 83 | | | | | | | | | |

## PANEL P6

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: SIXTH FLOOR OFFICE
BUS: 100A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: FLUSH
75A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: DPSA

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | SPARE | 20/1 | | | | | | 360 | | | R | 0.6 | 1.4 | 135 | 12 | 20/1 | ELEV CABIT/OPEN OFF. RECEPT. | 2 | |
| | 3 | SPARE | 20/1 | | | | | | | 180 | | R | 0.6 | 0.3 | 65 | 12 | 20/1 | RESTROOM RECEPT. | 4 | |
| | 5 | SPARE | 20/1 | | | | | | | | 900 | R | 0.6 | 2 | 125 | 10 | 20/1 | OPEN OFFICE RECEPT. | 6 | |
| | 7 | SPARE | 20/1 | | | | | | 720 | | | R | 0.6 | 2.6 | 130 | 12 | 20/1 | OPEN OFF./ OFFICE 1 SW. RECEPT | 8 | |
| | 9 | SPARE | 20/1 | | | | | | | 1080 | | R | 0.6 | 2 | 105 | 10 | 20/1 | OFFICE 1/TEMPLE RM RECEPT. | 10 | |
| | 11 | SPARE | 20/1 | | | | | | | | 900 | R | 0.6 | 2.4 | 95 | 12 | 20/1 | FILING/CORR RECEPT. | 12 | |
| | 13 | OFFICE 2/3 SW. RECEPT. | 20/1 | 8 | 180 | 2.1 | 0.6 | R | 1080 | | | R | 0.6 | 0.5 | 100 | 12 | 20/1 | BREAK RM RECEPT. | 14 | |
| | | | | | | | | | 180 | | | | | | | | | | | |
| | 15 | OFFICE 3 RECEPT. | 20/1 | 12 | 165 | 2.6 | 0.6 | R | 900 | | | R | 0.6 | 2.4 | 120 | 12 | 20/1 | BREAK RM RECEPT. | 16 | |
| | | | | | | | | | 720 | | | | | | | | | | | |
| | 17 | CONF. RM RECEPT. | 20/1 | 12 | 130 | 2 | 0.6 | R | | | 900 | R | 0.6 | 2.2 | 140 | 10 | 20/1 | OFFICE 2 RECEPT. | 18 | |
| | | | | | | | | | | | 900 | | | | | | | | | |
| | 19 | CONF. RM SW. RECEPT. | 20/1 | 12 | 120 | 1.1 | 0.6 | R | 540 | | | R | 0.6 | 0.8 | 80 | 12 | 20/1 | ATTIC RECEPT. | 20 | |
| | | | | | | | | | 360 | | | | | | | | | | | |
| | 21 | ELEV., CAR LGHTS, CAR TOP RECEPT. | 20/1 | 12 | 25 | 0.35 | 0.6 | R | | 500 | | | | | | | | SPACE | 22 | |
| | 23 | MACHINE SPACE LIGHT/ RECEPT. | 20/1 | 12 | 25 | 0.35 | 0.6 | R | | | 500 | | | | | | | SPACE | 24 | |
| | 25 | MACHINE/CONTROL ROOM/ RECEPT | 20/1 | 12 | 25 | 0.35 | 0.6 | R | 500 | | | | | | | | | SPACE | 26 | |
| | 27 | CONTROL ROOM EXHAUST FAN | 20/1 | 12 | 25 | 0.5 | 0.85 | G | | 700 | | | | | | | | SPACE | 28 | |
| | 29 | ELEV., PIT LIGHT/ RECEPTACLE | 20/1 | 12 | 25 | 0.35 | 0.6 | R | | | 500 | | | | | | | SPACE | 30 | |
| | 31 | ELEVATOR SUMP | 20/1 | 12 | 25 | 0.85 | 0.85 | M | 1200 | | | | | | | | | SPACE | 32 | |
| | 33 | BUILDING INTER-COMM., SYSTEM | 20/1 | 12 | 25 | 0.35 | 0.85 | G | | 500 | | | | | | | | SPACE | 34 | |
| | 35 | SPACE | | | | | | | | | | | | | | | | SPACE | 36 | |
| | 37 | SPACE | | | | | | | | | | | | | | | | SPACE | 38 | |
| | 39 | SPACE | | | | | | | | | | | | | | | | SPACE | 40 | |
| | 41 | SPACE | | | | | | | | | | | | | | | | SPACE | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 4940 | 4580 | 4600 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 41 | 38 | 38 | | | | | | | | | |

## PANEL P3

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: THIRD LEVEL ELECTRICAL ROOM
BUS: 100A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
50A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: DPSA

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | FC-15 | 20/2 | 12 | | | 0.85 | M | 345 | | | | | | | | | | 2 | |
| | 3 | " " | | 12 | | | 0.85 | M | | 345 | | | | | | | | | 4 | |
| | 5 | | | | | | | | | | | | | | | | | | 6 | |
| | 7 | | | | | | | | | | | | | | | | | | 8 | |
| | 9 | | | | | | | | | | | | | | | | | | 10 | |
| | 11 | | | | | | | | | | | | | | | | | | 12 | |
| | 13 | | | | | | | | | | | | | | | | | | 14 | |
| | 15 | | | | | | | | | | | | | | | | | | 16 | |
| | 17 | | | | | | | | | | | | | | | | | | 18 | |
| | 19 | | | | | | | | | | | | | | | | | | 20 | |
| | 21 | | | | | | | | | | | | | | | | | | 22 | |
| | 23 | | | | | | | | | | | | | | | | | | 24 | |
| | 25 | | | | | | | | | | | | | | | | | | 26 | |
| | 27 | | | | | | | | | | | | | | | | | | 28 | |
| | 29 | | | | | | | | | | | | | | | | | | 30 | |
| | 31 | | | | | | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | | | | | | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 345 | 345 | 0 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 3 | 3 | 0 | | | | | | | | | |

## PANEL P1A

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: ELECTRICAL ROOM
BUS: 225A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
MAIN LUGS ONLY PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: DPTA

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | STORAGE RECEPT. | 20/1 | 12 | 272 | | 0.6 | R | 720 | | | R | 0.6 | | 235 | 12 | 20/1 | MAINT. RECEPT. | 2 | |
| | | | | | | | | | 1080 | | | | | | | | | | | |
| | 3 | STORAGE RECEPT. | 20/1 | 12 | 235 | | 0.6 | R | | 720 | | R | 0.6 | | 225 | 12 | 20/1 | RESTROOM/LAUNDRY RECEPT. | 4 | |
| | | | | | | | | | | 540 | | | | | | | | | | |
| | 5 | BREAK RM. RECEPT. | 20/1 | 12 | 210 | | 0.6 | R | | | 900 | R | 0.6 | | 225 | 12 | 20/1 | TREADMILL | 6 | |
| | | | | | | | | | | | 1200 | | | | | | | | | |
| | 7 | BREAK RM. FRIDGE. | 20/1 | 12 | 235 | | 0.6 | R | 1920 | | | R | 0.6 | | 225 | 12 | 20/1 | TREADMILL | 8 | |
| | | | | | | | | | 1200 | | | | | | | | | | | |
| | 9 | BREAK RM. RECEPT. | 20/1 | 12 | 240 | | 0.6 | R | 540 | | | R | 0.6 | | 210 | 12 | 20/1 | STORAGE RECEPT. | 10 | |
| | | | | | | | | | 900 | | | | | | | | | | | |
| | 11 | OFFICE 1 UNSW. RECEPT. | 20/1 | 12 | 190 | | 0.6 | R | | 1080 | | R | 0.6 | | 190 | 12 | 20/1 | OFFICE 1/OPEN AREA SW. RECEPT. | 12 | |
| | | | | | | | | | | 1080 | | | | | | | | | | |
| | 13 | OFFICE 2 UNSW. RECEPT. | 20/1 | 12 | 200 | | 0.6 | R | 900 | | | R | 0.6 | | 200 | 12 | 20/1 | OFFICE 2/OFFICE 4 SW. RECEPT. | 14 | |
| | | | | | | | | | 900 | | | | | | | | | | | |
| | 15 | OFFICE 3 UNSW. RECEPT. | 20/1 | 12 | 170 | | 0.6 | R | | 900 | | R | 0.6 | | 190 | 12 | 20/1 | OFFICE 3/OFFICE 5 SW. RECEPT. | 16 | |
| | | | | | | | | | | 900 | | | | | | | | | | |
| | 17 | OFFICE 4 UNSW. RECEPT. | 20/1 | 12 | 200 | | 0.6 | R | | | 900 | R | 0.6 | | 170 | 12 | 20/1 | MEETING RM. RECEPT. | 18 | |
| | | | | | | | | | | | 720 | | | | | | | | | |
| | 19 | OFFICE 5 UNSW. RECEPT. | 20/1 | 12 | 190 | | 0.6 | R | 900 | | | R | 0.6 | | 195 | 12 | 20/1 | MEETING RM. SW. RECEPT. | 20 | |
| | | | | | | | | | 540 | | | | | | | | | | | |
| | 21 | MEETING RM. RECEPT. | 20/1 | 12 | 190 | | 0.6 | R | | 720 | | R | 0.6 | | 150 | 12 | 20/1 | MEETING RM. CEILING RECEPT. | 22 | |
| | | | | | | | | | | 540 | | | | | | | | | | |
| | 23 | CHECK-IN RECEPT. | 20/1 | 12 | | | 0.6 | R | | | 720 | R | 0.6 | | 150 | 12 | 20/1 | MEETING RM. FLOOR RECEPT. | 24 | |
| | | | | | | | | | | | 540 | | | | | | | | | |
| | 25 | GATHERING RECEPT. | 20/1 | 12 | | | 0.6 | R | 900 | | | R | 0.6 | | | 12 | 20/1 | VESTIBULE RECEPT. | 26 | |
| | | | | | | | | | 360 | | | | | | | | | | | |
| | 27 | GATHERING FLOOR BOX RECEPT. | 20/1 | 12 | | | 0.6 | R | | 1080 | | R | 0.6 | | | 12 | 20/1 | BREAKFAST 1 FLOOR RECEPT. | 28 | |
| | | | | | | | | | | 1080 | | | | | | | | | | |
| | 29 | BREAKFAST 1 FLOOR RECEPT. | 20/1 | 12 | | | 0.6 | R | | | 1080 | R | 0.6 | | | 12 | 20/1 | BREAKFAST 1 FLOOR RECEPT. | 30 | |
| | | | | | | | | | | | 1080 | | | | | | | | | |
| | 31 | WASHER | 20/1 | 12 | 225 | | 0.85 | G | 1500 | | | | | | 225 | | 20/1 | ELIPTICAL | 32 | |
| | | | | | | | | | 1200 | | | | | | | | | | | |
| | 33 | WASHER | 20/1 | 12 | 225 | | 0.85 | G | | 1500 | | | | | 225 | | 20/1 | EXERCISE BIKE | 34 | |
| | | | | | | | | | | 1200 | | | | | | | | | | |
| | 35 | DRYER | 20/2 | 12 | 225 | | 0.85 | G | | | 1560 | | | | | | 20/1 | SPARE | 36 | |
| | 37 | " " | | 12 | 225 | | 0.85 | G | 1560 | | | | | | | | 20/1 | SPARE | 38 | |
| | 39 | DRYER | | 12 | 225 | | 0.85 | G | | 1560 | | | | | | | 20/1 | SPARE | 40 | |
| | 41 | " " | | 12 | 225 | | 0.85 | G | | | 1560 | | | | | | 20/1 | SPARE | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 13680 | 12180 | 12420 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 114 | 102 | 104 | | | | | | | | | |

## PANEL P4

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FOURTH LEVEL ELECTRICAL ROOM
BUS: 100A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
50A MAIN CIRCUIT BREAKER PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: DPSA

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | FC-16 | 20/2 | 12 | | | 0.85 | M | 345 | | | | | | | | | | 2 | |
| | 3 | " " | | 12 | | | 0.85 | M | | 345 | | | | | | | | | 4 | |
| | 5 | | | | | | | | | | | | | | | | | | 6 | |
| | 7 | | | | | | | | | | | | | | | | | | 8 | |
| | 9 | | | | | | | | | | | | | | | | | | 10 | |
| | 11 | | | | | | | | | | | | | | | | | | 12 | |
| | 13 | | | | | | | | | | | | | | | | | | 14 | |
| | 15 | | | | | | | | | | | | | | | | | | 16 | |
| | 17 | | | | | | | | | | | | | | | | | | 18 | |
| | 19 | | | | | | | | | | | | | | | | | | 20 | |
| | 21 | | | | | | | | | | | | | | | | | | 22 | |
| | 23 | | | | | | | | | | | | | | | | | | 24 | |
| | 25 | | | | | | | | | | | | | | | | | | 26 | |
| | 27 | | | | | | | | | | | | | | | | | | 28 | |
| | 29 | | | | | | | | | | | | | | | | | | 30 | |
| | 31 | | | | | | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | | | | | | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 345 | 345 | 0 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 3 | 3 | 0 | | | | | | | | | |

## PANEL P1B

TYPE: PANELBOARD (SEE E1.2) AIC PANEL & BRANCH CIRCUITS LOCATION: FIRST LEVEL ELECTRICAL ROOM
BUS: 125A 42 FULL SIZE BOLT ON NEMA: 1
120/208V, 3-PHASE, 4W CIRCUIT BREAKER SPACES MOUNTING: SURFACE
MAIN LUGS ONLY PROVIDE WITH EQUIPMENT GROUND BUS FEED FROM: DPTA

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LF | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LF | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | BREAKFAST RM 2 FLR BOX RECEPT. | 20/1 | 12 | 272 | | 0.6 | R | 180 | | | R | 0.6 | | 235 | 12 | 20/1 | BREAKFAST RM 2 FLR BOX RECEPT. | 2 | |
| | 3 | BREAKFAST RM 2 FLR BOX RECEPT. | 20/1 | 12 | 235 | | 0.6 | R | | 180 | | R | 0.6 | | 225 | 12 | 20/1 | BREAKFAST RM 2 FLR BOX RECEPT. | 4 | |
| | | | | | | | | | | 180 | | | | | | | | | | |
| | 5 | BREAKFAST RM 2 RECEPT. | 20/1 | 12 | 210 | | 0.6 | R | | | 1080 | R | 0.6 | | 225 | 12 | 20/1 | BREAKFAST RM 2 SW. RECEPT. | 6 | |
| | | | | | | | | | | | 360 | | | | | | | | | |
| | 7 | GAME ROOM RECEPT. | 20/1 | 12 | 235 | | 0.6 | R | 540 | | | R | 0.6 | | 215 | 12 | 20/1 | FITNESS RM FLR BOX RECEPT. | 8 | |
| | | | | | | | | | 540 | | | | | | | | | | | |
| | 9 | GAME ROOM RECEPT. | 20/1 | 12 | 240 | | 0.6 | R | | 720 | | R | 0.6 | | 210 | 12 | 20/1 | FITNESS RM RECEPT. | 10 | |
| | | | | | | | | | | 1080 | | | | | | | | | | |
| | 11 | CORRIDOR 2 RECEPT. | 20/1 | 12 | 190 | | 0.6 | R | | | 720 | R | 0.6 | | 190 | 12 | 20/1 | | 12 | |
| | | | | | | | | | | | 720 | | | | | | | | | |
| | 13 | STORAGE ROOM RECEPTACLES | 20/1 | 12 | 200 | | 0.6 | R | 720 | | | R | 0.6 | | 200 | 12 | 20/1 | | 14 | |
| | | | | | | | | | 900 | | | | | | | | | | | |
| | 15 | KITCHEN/BREAKFAST AREA | 20/1 | 12 | 170 | | 0.6 | R | | 900 | | R | 0.6 | | 190 | 12 | 20/1 | | 16 | |
| | | | | | | | | | | 900 | | | | | | | | | | |
| | 17 | | 20/1 | 12 | 200 | | 0.6 | R | | | 900 | R | 0.6 | | 170 | 12 | 20/1 | | 18 | |
| | | | | | | | | | | | 900 | | | | | | | | | |
| | 19 | | 20/1 | 12 | 190 | | 0.6 | R | | | | R | 0.6 | | 195 | 12 | 20/1 | | 20 | |
| | 21 | | 20/1 | 12 | 190 | | 0.6 | R | | | | R | 0.6 | | 150 | 12 | 20/1 | | 22 | |
| | 23 | | 20/1 | 12 | | | 0.6 | R | | | | R | 0.6 | | 150 | 12 | 20/1 | | 24 | |
| | 25 | | 20/1 | 12 | | | 0.6 | R | | | | R | 0.6 | | | 12 | 20/1 | | 26 | |
| | 27 | | 20/1 | 12 | | | 0.6 | R | | | | R | 0.6 | | | 12 | 20/1 | | 28 | |
| | 29 | | 20/1 | 12 | | | 0.6 | R | | | | R | 0.6 | | | 12 | 20/1 | | 30 | |
| | 31 | | | | | | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | | | | | | 42 | |
| | | | | | | | | SUBTOTAL (VA): | 2160 | 3060 | 2160 | | | | | | | | | |
| | | | | | | | | CONTINUOUS: | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120: | 18 | 26 | 18 | | | | | | | | | |

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REGISTERED PROFESSIONAL ENGINEER - NOT FOR CONSTRUCTION - JOHN S. GRAY 22127 - ELECTRICAL - STATE OF CALIFORNIA

EXPIRES: 12-31-2017
GECE PROJECT #1635

CONSULTANT

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CLIENT

SRI KRISHNA ENTERPRISE
300 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA 94080

PROJECT

GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**ELECTRICAL SCHEDULES**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**

DATE
August 29, 2017

SHEET
E1.4

## PANEL M1

TYPE: PANELBOARD
BUS: 600A
120/208V, 3-PHASE, 4W
MAIN LUGS ONLY

(SEE E1.0) AIC PANEL & BRANCH CIRCUITS
42 FULL SIZE BOLT ON
CIRCUIT BREAKER SPACES
PROVIDE WITH EQUIPMENT GROUND BUS

LOCATION: FIRST LEVEL ELECTRICAL ROOM
NEMA: 1
MOUNTING: SURFACE
FEED FROM: DP1A

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LT | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LT | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | BP-1 | | 1 | 240 | 1.3 | 0.85 | M | 5764 | | | M | 0.85 | 2.6 | 240 | 4 | | HP-2 | 2 | |
| | | | | | | | | | 5044 | | | | | | | | | | | |
| | 3 | " | 60/3 | 1 | 240 | 1.3 | 0.85 | M | | 5764 | | M | 0.85 | 2.6 | 240 | 4 | 60/3 | " | 4 | |
| | | | | | | | | | | 5044 | | | | | | | | | | |
| | 5 | " | | 1 | 240 | 1.3 | 0.85 | M | | | 5764 | M | 0.85 | 2.6 | 240 | 4 | | " | 6 | |
| | | | | | | | | | | | 5044 | | | | | | | | | |
| | 7 | HP-1 (MODULE 1) | | 2 | 240 | 2.6 | 0.85 | M | 8166 | | | M | 0.85 | 1.5 | 85 | 12 | | FC-2/FC-3 | 8 | |
| | | | | | | | | | 926 | | | | | | | | | | | |
| | 9 | " | 110/3 | 2 | 240 | 2.6 | 0.85 | M | | 8166 | | M | 0.85 | 1.5 | 85 | 12 | 15/2 | " | 10 | |
| | | | | | | | | | | 926 | | | | | | | | | | |
| | 11 | " | | 2 | 240 | 2.6 | 0.85 | M | | | 8166 | M | 0.85 | 2.4 | 185 | 12 | | FC-8/FC-9 | 12 | |
| | | | | | | | | | | | 691 | | | | | | | | | |
| | 13 | HP-1 (MODULE 2) | | 2 | 240 | 2.6 | 0.85 | M | 8166 | | | M | 0.85 | 2.4 | 185 | 12 | | " | 14 | |
| | | | | | | | | | 691 | | | | | | | | | | | |
| | 15 | " | 110/3 | 2 | 240 | 2.6 | 0.85 | M | | 8166 | | M | 0.85 | 1.9 | 200 | 12 | 15/2 | FC-10/FC-11 | 16 | |
| | | | | | | | | | | 517 | | | | | | | | | | |
| | 17 | " | | 2 | 240 | 2.6 | 0.85 | M | | | 8166 | M | 0.85 | 1.9 | 200 | 12 | | " | 18 | |
| | | | | | | | | | | | 517 | | | | | | | | | |
| | 19 | WH-1 | 20/1 | 4 | 250 | 2.1 | 0.85 | M | 1920 | | | M | 0.85 | 1.3 | 170 | 12 | | FC-12/FC-13 | 20 | |
| | | | | | | | | | 409 | | | | | | | | 15/2 | | | |
| | 21 | WH-2 | 20/1 | 4 | 250 | 2.1 | 0.85 | M | | 1920 | | M | 0.85 | 1.3 | 170 | 12 | | " | 22 | |
| | | | | | | | | | | 409 | | | | | | | | | | |
| | 23 | CP-1 | 20/1 | 6 | 245 | 2.4 | 0.85 | M | | | 318 | M | 0.85 | 0.9 | 75 | 12 | | FC-6/FC-7 | 24 | |
| | | | | | | | | | | | 629 | | | | | | | | | |
| | 25 | BC-1/FC-1 | | 12 | 120 | 1.2 | 0.85 | M | 1053 | | | M | 0.85 | 0.9 | 75 | 12 | 15/2 | " | 26 | |
| | | | 15/2 | | | | | | 629 | | | | | | | | | | | |
| | 27 | " | | 12 | 120 | 1.2 | 0.85 | M | | 1053 | | M | 0.85 | 0.3 | 45 | 12 | | FC-4/FC-5 | 28 | |
| | | | | | | | | | | 409 | | | | | | | | | | |
| | 29 | SPACE | | | | | | | | | 125 | M | 0.85 | 0.3 | 45 | 12 | | " | 30 | |
| | | | | | | | | | | | 409 | | | | | | | | | |
| | 31 | SPACE | | | | | | | | | | | | | | | | SPACE | 32 | |
| | 33 | SPACE | | | | | | | | | | | | | | | | SPACE | 34 | |
| | 35 | SPACE | | | | | | | | | | | | | | | | SPACE | 36 | |
| | 37 | SPACE | | | | | | | | | | | | | | | | SPACE | 38 | |
| | 39 | SPACE | | | | | | | | | | | | | | | | SPACE | 40 | |
| | 41 | SPACE | | | | | | | | | | | | | | | | SPACE | 42 | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | SUBTOTAL (VA) | 32768 | 32374 | 29809 | | | | | | | | | |
| | | | | | | | | CONTINUOUS | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120 | 273 | 270 | 249 | | | | | | | | | |

## PANEL M6

TYPE: PANELBOARD
BUS: 225A
120/208V, 3-PHASE, 4W
200A MAIN CIRCUIT BREAKER

(SEE E1.2) AIC PANEL & BRANCH CIRCUITS
42 FULL SIZE BOLT ON
CIRCUIT BREAKER SPACES
PROVIDE WITH EQUIPMENT GROUND BUS

LOCATION: ROOF
NEMA: 3R
MOUNTING: SURFACE
FEED FROM: TX6 / DP6A

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LT | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LT | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | FC-18 | | 12 | 130 | 0.3 | 0.85 | M | 125 | | | M | 0.85 | 1.3 | 80 | 3 | | DOAS-1 | 2 | |
| | | | 20/2 | | | | | | 9715 | | | | | | | | | | | |
| | 3 | " | | 12 | 130 | 0.3 | 0.85 | M | | 125 | | M | 0.85 | 1.3 | 80 | 3 | 100/3 | " | 4 | |
| | | | | | | | | | | 9715 | | | | | | | | | | |
| | 5 | FC-19 | | 12 | 130 | 0.3 | 0.85 | M | | | 125 | M | 0.85 | 1.3 | 80 | 3 | | " | 6 | |
| | | | 20/2 | | | | | | | | 9715 | | | | | | | | | |
| | 7 | " | | 12 | 130 | 0.3 | 0.85 | M | 125 | | | M | 0.85 | 0.9 | 50 | 12 | | EF-1 | 8 | |
| | | | | | | | | | 1273 | | | | | | | | | | | |
| | 9 | FC-20 | | 12 | 100 | 0.5 | 0.85 | M | | 284 | | M | 0.85 | 0.9 | 50 | 12 | 20/3 | " | 10 | |
| | | | 20/2 | | | | | | | 1273 | | | | | | | | | | |
| | 11 | " | | 12 | 100 | 0.5 | 0.85 | M | | | 284 | M | 0.85 | 0.9 | 50 | 12 | | " | 12 | |
| | | | | | | | | | | | 1273 | | | | | | | | | |
| | 13 | FC-21 | | 12 | 100 | 0.3 | 0.85 | M | 162 | | | M | 0.85 | 2 | 50 | 10 | | HP-5 | 14 | |
| | | | 20/2 | | | | | | 2184 | | | | | | | | | | | |
| | 15 | " | | 12 | 100 | 0.3 | 0.85 | M | | 162 | | M | 0.85 | 2 | 50 | 10 | 25/2 | " | 16 | |
| | | | | | | | | | | 2184 | | | | | | | | | | |
| | 17 | HP-3 | | 8 | 110 | 0.8 | 0.85 | M | | | 3744 | | | | | | | 20/1 SPARE | 18 | |
| | | | 40/2 | | | | | | | | | | | | | | | | | |
| | 19 | " | | 8 | 110 | 0.8 | 0.85 | M | 3744 | | | | | | | | | 20/1 SPARE | 20 | |
| | 21 | HP-4 | | 12 | 120 | 0.9 | 0.85 | M | | 1456 | | | | | | | | 20/1 SPARE | 22 | |
| | | | 15/2 | | | | | | | | | | | | | | | | | |
| | 23 | " | | 12 | 120 | 0.9 | 0.85 | M | | | 1456 | | | | | | | 20/1 SPARE | 24 | |
| | 25 | FC-24 | | 12 | 50 | 0.1 | 0.85 | M | 104 | | | | | | | | | 20/1 SPARE | 26 | |
| | | | 20/2 | | | | | | | | | | | | | | | | | |
| | 27 | " | | 12 | 50 | 0.1 | 0.85 | M | | 104 | | | | | | | | 20/1 SPARE | 28 | |
| | 29 | SPARE | 20/1 | | | | | | | | | | | | | | | 20/1 SPARE | 30 | |
| | 31 | CONVENIENCE RECEPTACLES (ROOF) | 20/1 | 8 | 190 | 1.9 | 0.6 | R | 900 | | | | | | | | | SPACE | 32 | |
| | 33 | FC-22 | | 12 | 50 | 0.1 | 0.85 | M | | 104 | | | | | | | | SPACE | 34 | |
| | | | 20/2 | | | | | | | | | | | | | | | | | |
| | 35 | " " | | 12 | 50 | 0.1 | 0.85 | M | | | 104 | | | | | | | SPACE | 36 | |
| | 37 | CONVENIENCE RECEPTACLES (ROOF) | 20/1 | | | | 0.6 | R | 1080 | | | | | | | | | SPACE | 38 | |
| | 39 | | | | | | | | | | | | | | | | | SPACE | 40 | |
| | 41 | | | | | | | | | | | | | | | | | SPACE | 42 | |
| | | | | | | | | SUBTOTAL (VA) | 19412 | 15407 | 16701 | | | | | | | | | |
| | | | | | | | | CONTINUOUS | 0 | 0 | 0 | | | | | | | | | |
| | | | | | | | | AMPS @ 120 | 162 | 128 | 139 | | | | | | | | | |

## PANEL ME6

TYPE: PANELBOARD
BUS: 125A
120/208V, 3-PHASE, 4W
MAIN LUGS ONLY

(SEE E1.2) AIC PANEL & BRANCH CIRCUITS
42 FULL SIZE BOLT ON
CIRCUIT BREAKER SPACES
PROVIDE WITH EQUIPMENT GROUND BUS

LOCATION: ROOF
NEMA: 3R
MOUNTING: SURFACE
FEED FROM: TX6 / INV2

| NOTES | CIRCUIT | DESCRIPTION | BREAKER | WIRE | LT | VD(%) | PF | TYPE | PHASE A | PHASE B | PHASE C | TYPE | PF | VD(%) | LT | WIRE | BREAKER | DESCRIPTION | CIRCUIT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | SPACE | | | | | | | | | | | | | | | | SPACE | 2 | |
| | 3 | SPACE | | | | | | | | | | | | | | | | SPACE | 4 | |
| | 5 | SPACE | | | | | | | | | | | | | | | | SPACE | 6 | |
| | 7 | SPACE | | | | | | | | | | | | | | | | SPACE | 8 | |
| | 9 | SPACE | | | | | | | | | | | | | | | | SPACE | 10 | |
| | 11 | SPACE | | | | | | | | | | | | | | | | SPACE | 12 | |
| | 13 | SPACE | | | | | | | 1392 | | | C | 0.85 | 2.1 | 175 | 10 | 20/1 | EF-2/EF-3 | 14 | |
| | 15 | SPACE | | | | | | | | 1392 | | C | 0.85 | 2.2 | 180 | 10 | 20/1 | EF-4/EF-4 | 16 | |
| | 17 | SPACE | | | | | | | | | 1392 | C | 0.85 | 1.7 | 140 | 10 | 20/1 | EF-2/EF-2 | 18 | |
| | 19 | SPACE | | | | | | | 1392 | | | C | 0.85 | 2.5 | 130 | 12 | 20/1 | EF-3/EF-3 | 20 | |
| | 21 | SPACE | | | | | | | | 1392 | | C | 0.85 | 1.9 | 100 | 12 | 20/1 | EF-3/EF-2 | 22 | |
| | 23 | SPACE | | | | | | | | | 696 | C | 0.85 | 1.1 | 55 | 12 | 20/1 | EF-3 | 24 | |
| | 25 | EF-3/EF-3 | 20/1 | 12 | 60 | 1.2 | 0.85 | C | 1392 | | | C | 0.85 | 1.9 | 125 | 8 | 20/1 | EF-3/EF-3 | 26 | |
| | | | | | | | | | 1392 | | | | | | | | | | | |
| | 27 | EF-2/EF-4 | 20/1 | 10 | 150 | 1.8 | 0.85 | C | | 1392 | | C | 0.85 | 2.3 | 150 | 10 | 20/1 | EF-2/EF-4 | 28 | |
| | | | | | | | | | | 1392 | | | | | | | | | | |
| | 29 | EF-2/EF-3 | 20/1 | 8 | 150 | 2.3 | 0.85 | C | | | 1392 | C | 0.85 | 2.9 | 75 | 12 | 20/1 | EF-2/EF-2 | 30 | |
| | | | | | | | | | | | 1392 | | | | | | | | | |
| | 31 | | | | | | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | | | | | | 42 | |
| | | | | | | | | SUBTOTAL (VA) | 3568 | 3568 | 4672 | | | | | | | | | |
| | | | | | | | | CONTINUOUS | 1392 | 1392 | 1218 | | | | | | | | | |
| | | | | | | | | AMPS @ 120 | 58 | 58 | 51 | | | | | | | | | |

INV2 LOADING: 20 KVA 17 KW RATING (DBS PF)

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EXPIRES: 12-31-2017
GECE PROJECT #1635

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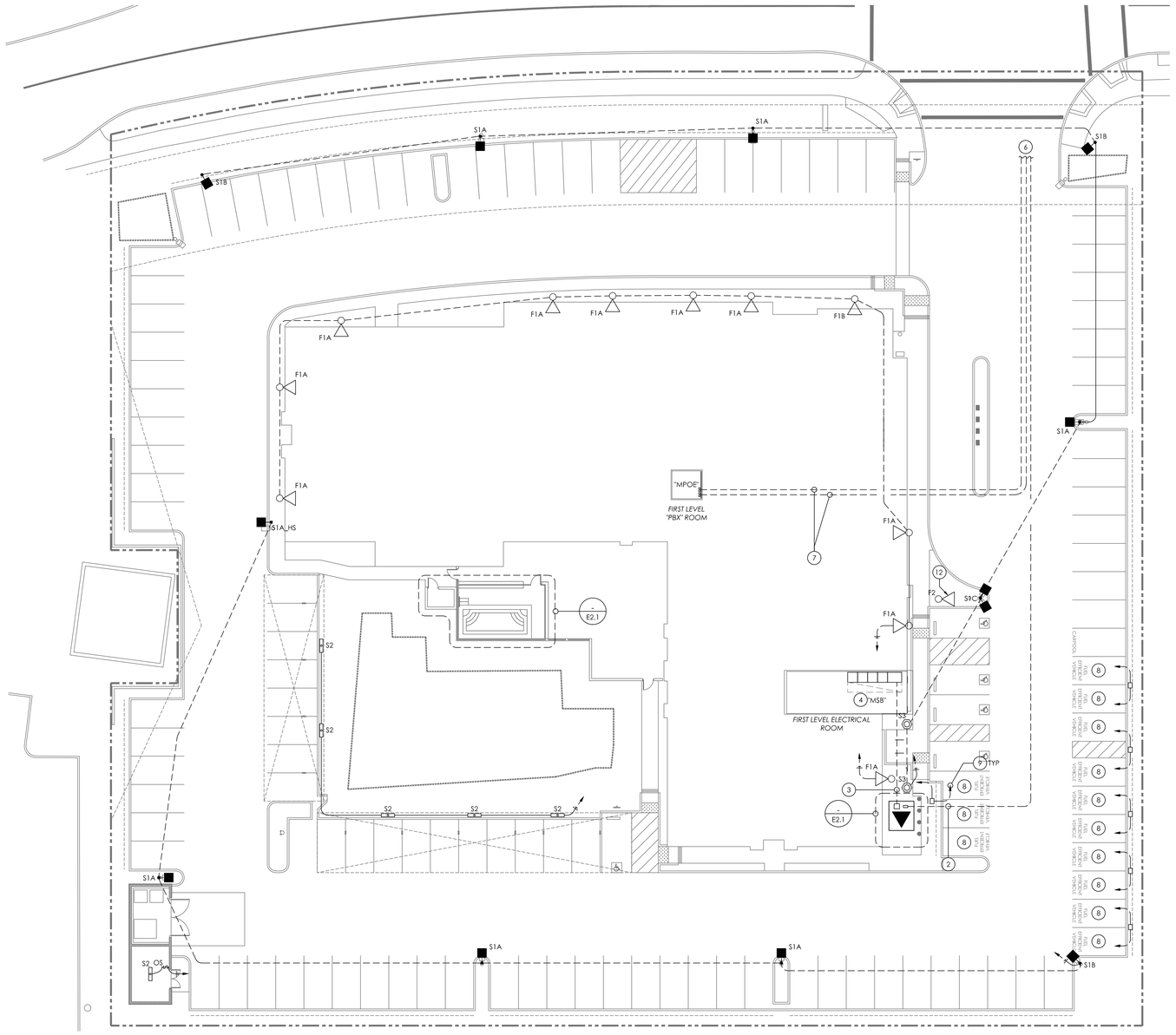
PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**ELECTRICAL SCHEDULES**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**
DATE
August 29, 2017
SHEET
E1.5




TRUE NORTH

# SITE ELECTRICAL PLAN

SCALE: 1/16" = 1'0"

## REFERENCE NOTES

(#)

1. PG&E APPROVED PAD MOUNTED TRANSFORMER INSTALLED ON PROJECT PREMISES. INSTALL PER UTILITY COMPANY DESIGN AND HANDOUT PACKAGE AS FOLLOWS:
   - 1.1. INSTALL UTILITY APPROVED TRANSFORMER PAD.
   - 1.2. TRANSFORMER LOCATION SUBJECT TO THE APPROVAL OF THE UTILITY AND AHJ.
   - 1.3. PROVIDE PROTECTIVE BARRIER POSTS AS PER UTILITY COMPANY REQUIREMENTS.
   - 1.4. MAINTAIN THE FOLLOWING CLEARANCES:
     - 1.4.1. MIN. 8 FEET AT DOOR SIDE.
     - 1.4.2. MIN. 3 FEET AT NON-DOOR SIDE.
     - 1.4.3. WHERE POSSIBLE PLACE PAD / STRUCTURE AWAY FROM FREQUENT IRRIGATION.
2. INSTALL PRIMARY SERVICE CONDUIT TO NEW TRANSFORMER LOCATION IN ACCORDANCE TO PG&E HANDOUT PACKAGE. EXTEND (1)4" C.O.
3. PGE SECONDARY SERVICE BANK AS FOLLOWS:
   - 3.1. PROVIDE (8)5" C.O. SEE SINGLE LINE DIAGRAM. SECONDARY SERVICE LENGTH SHALL BE LIMITED TO 50 FEET BETWEEN THE TRANSFORMER SECONDARY SPADES AND THE UNDERGROUND PULL SECTION OF THE CUSTOMER MAIN SERVICE SWITCHGEAR.
4. MAIN ELECTRICAL SERVICE SWITCHGEAR. SEE SINGLE LINE DIAGRAM.
5. PROTECTIVE BARRIER POST PER PG&E REQUIREMENTS. PROVIDE WHERE REQUIRED BY UTILITY COMPANY. BARRIER POSTS SHALL BE EITHER FIXED (PERMANENT) OR REMOVABLE AS PER THE UTILITY COMPANY HANDOUT PACKAGE.
6. CONTINUATION PER UTILITY COMPANY TO BE DETERMINED.
7. INSTALL 4-4" C.O. FOR CATV & TEL IN JOINT TRENCH PER UTILITY COMPANY HANDOUT.
8. DESIGNATED FUTURE EV CHARGING STATION PARKING STALL. EXTEND (1)2" C.O. FOR EACH (F) EV CHARGING STATION. TERMINATE CONDUIT WITHIN PULL-BOX, MIN. __"X __". STAMP LID "ELECTRICAL". PROVIDE CONDUIT WITH PULL TAPE.
9. EV CHARGING CONDUIT PROVISION CONTINUATION TO PANEL "___", LOCATED AT FIRST LEVEL ELECTRICAL ROOM.
10. PROVIDE (1)2"C.O. FROM DOUBLE-DETECTOR CHECK VALVE TO "FACP" LOCATED IN 1ST FLOOR COMMUNICATIONS ROOM.
11. PROVIDE (1)1" C.O. FROM IRRIGATION CONTROL VALVE TO ELECTRICAL ROOM.
12. FLOOD LIGHT DESIGNATED FOR FLAG / POLE.
13. REFER TO PROJECT ARCHITECT AND LANDSCAPE ARCHITECTURE PLANS FOR TRANSFORMER SCREENING. NOTE, LANDSCAPE SCREENING SHALL COMPLY WITH PG&E UG-1 051122 AND AS FOLLOWS: 063422.
    - 13.1. MAINTAIN 2-FOOT MINIMUM FROM NON-COMBUSTIBLE BUILDING SURFACES TO THE EDGE OF PAD. NON-COMBUSTIBLE MATERIALS INCLUDE BRICK, CLAY, CONCRETE.
    - 13.2. MAINTAIN MINIMUM 30-FOOT VERTICAL CLEARANCE ABOVE TRANSFORMER.
    - 13.3. FINAL CONFIGURATION OF LANDSCAPE SCREENING SHALL BE SUBJECT TO THE APPROVAL OF PG&E.
14. PG&E REQUIRED UTILITY CLEARANCE.

## UTILITY COMPANY CONTACT & STATUS

| UTILITY COMPANY | UTILITY REPRESENTATIVE | CONTACT INFORMATION | STATUS |
|---|---|---|---|
| PACIFIC GAS & ELECTRIC | PAUL BUEB | Phone: (650) 598-7272<br>E-MAIL: PJBk@pge.com | ESTIMATE ONLY<br>UTILITY MARKED PLANS RECIEVED:<br>__/__/____. |
| AT&T | XX | PHONE:<br>E-MAIL: | ESTIMATE ONLY<br>UTILITY MARKED PLANS RECIEVED:<br>__/__/____. |
| COMCAST | XX | PHONE:<br>E-MAIL: | ESTIMATE ONLY<br>UTILITY MARKED PLANS RECIEVED:<br>__/__/____ |

NOTES:

- SITE UTILITY WORK SHALL BE INSTALLED PER UTILITY COMPANY ISSUED DESIGN DRAWINGS, SPECIFICATIONS, AND STANDARD REQUIREMENTS (I.E. HAND-PUT PACKAGE). WORK INSTALLED PRIOR TO UTILITY COMPANY DIRECTION OR OUTSIDE OF STANDARD UTILITY COMPANY STANDARDS IS DONE AT THE SOLE RISK OF THE CONTRACTOR.
- THE CONTRACTOR SHALL SCHEDULE UTILITY INSPECTIONS AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY EXISTING UNDERGROUND UTILITIES PRIOR TO START OF WORK. THE CONTRACTOR SHALL WORK WITH THE LOCAL UNDERGROUND SERVICE ALERT (USA) PROGRAM OR LOCAL JURISDICTION (WHICHEVER IS APPLICABLE). CONTACT MUST BE MADE A MINIMUM OF 48 HOURS PRIOR TO WHEN WORK IS SCHEDULED TO START (I.E TRENCHING OR EXCAVATION).
- COORDINATE WITH CIVIL ENGINEERING PLANS FOR CLEARANCE/PROXIMITY TO ADJACENT WET UTILITIES AND ADDITIONAL TRENCH SPECIFICATION.

## EXISTING ELECTRICAL UTILITIES AND STRUCTURES

- THE LOCATION OF EXISTING ABOVE GRADE AND UNDERGROUND ELECTRICAL FACILITIES WITHIN THE JOBSITE ARE APPROXIMATE AND HAVE BEEN BASED ON LIMITED FIELD OBSERVATIONS, VERBAL DESCRIPTIONS PROVIDED BY THE FACILITY OWNER AND/OR VARIOUS AGENCIES INVOLVED, AS WELL AS AS-BUILT ELECTRICAL RECORDS. NO SUBSURFACE EXPLORATION FOR EXISTING UNDERGROUND ELECTRICAL FACILITIES HAS BEEN CONDUCTED FOR THIS WORK. THE FACILITY OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, AND IT IS UNDERSTOOD THAT THERE MAY BE ABOVE GROUND OR UNDERGROUND ELECTRICAL FACILITIES THAT ARE NOT SHOWN ON THE PLANS AND MAY BE ENCOUNTERED DURING THE COURSE OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION AND DEPTH OF EXISTING UNDERGROUND ELECTRICAL FACILITIES WHICH MAY AFFECT OR BE EFFECTED BY THE CONTRACTOR'S WORK. POTHOLE ALL ELECTRICAL CONDUITS AS REQUIRED PER CIVIL ENGINEERING SPECIFICATIONS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL POTHOLE THE EXISTING ELECTRICAL CONDUITS TO DETERMINE THE EXISTING HORIZONTAL AND VERTICAL LOCATIONS. POTHOLE RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR EVALUATION. PROVIDE THREE (3) WORKING DAYS TO EVALUATE THIS INFORMATION AT NO COST TO THE OWNER.
- EXISTING UNDERGROUND ELECTRICAL, INCLUDING BUT NOT LIMITED TO ELECTRICAL SERVICE, DISTRIBUTION, TELEPHONE, AND CABLE TELEVISION SHALL BE MAINTAINED, RELOCATED, REROUTED, REMOVED, AND/OR RESTORED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE, WITH THE LEAST POSSIBLE INTERFERENCE WITH THESE SERVICES.

DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING, GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.

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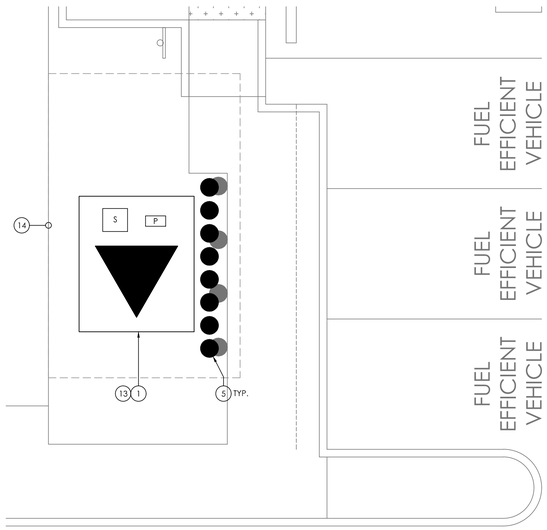
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**ELECTRICAL SITE PLAN**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
A15115
DATE
August 29, 2017
SHEET
E2.0




TRUE NORTH

# ENLARGED PG&E TRANSFORMER

SCALE: 1/4" = 1'0"

## REFERENCE NOTES

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GECE PROJECT #1635

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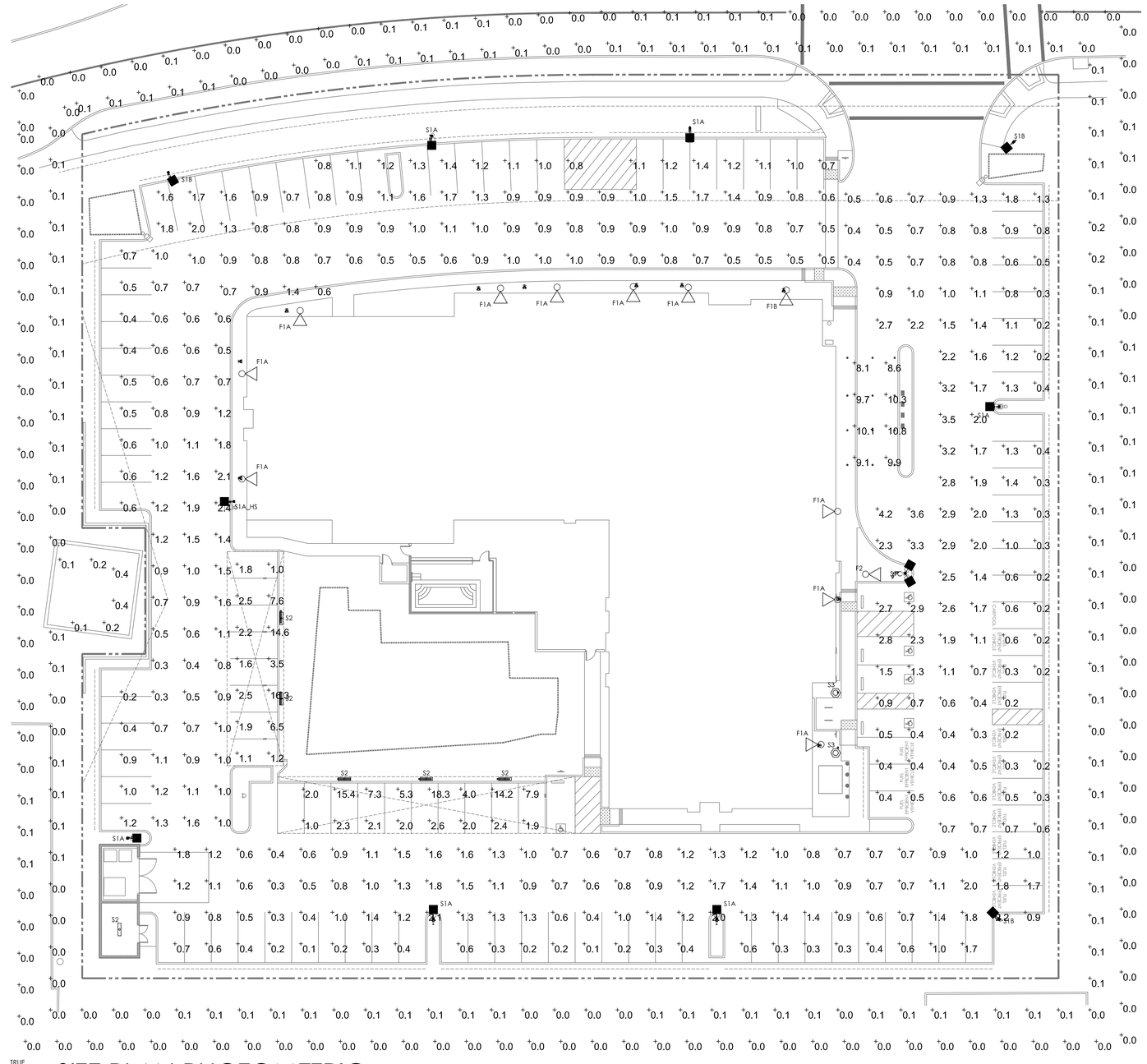
**ENLARGED SITE PLAN**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**

DATE
August 29, 2017

SHEET
E2.1




TRUE NORTH

# SITE PLAN PHOTOMETRIC

SCALE: 1/16" = 1'0"

## PHOTOMETRIC PLAN DISCLAIMER

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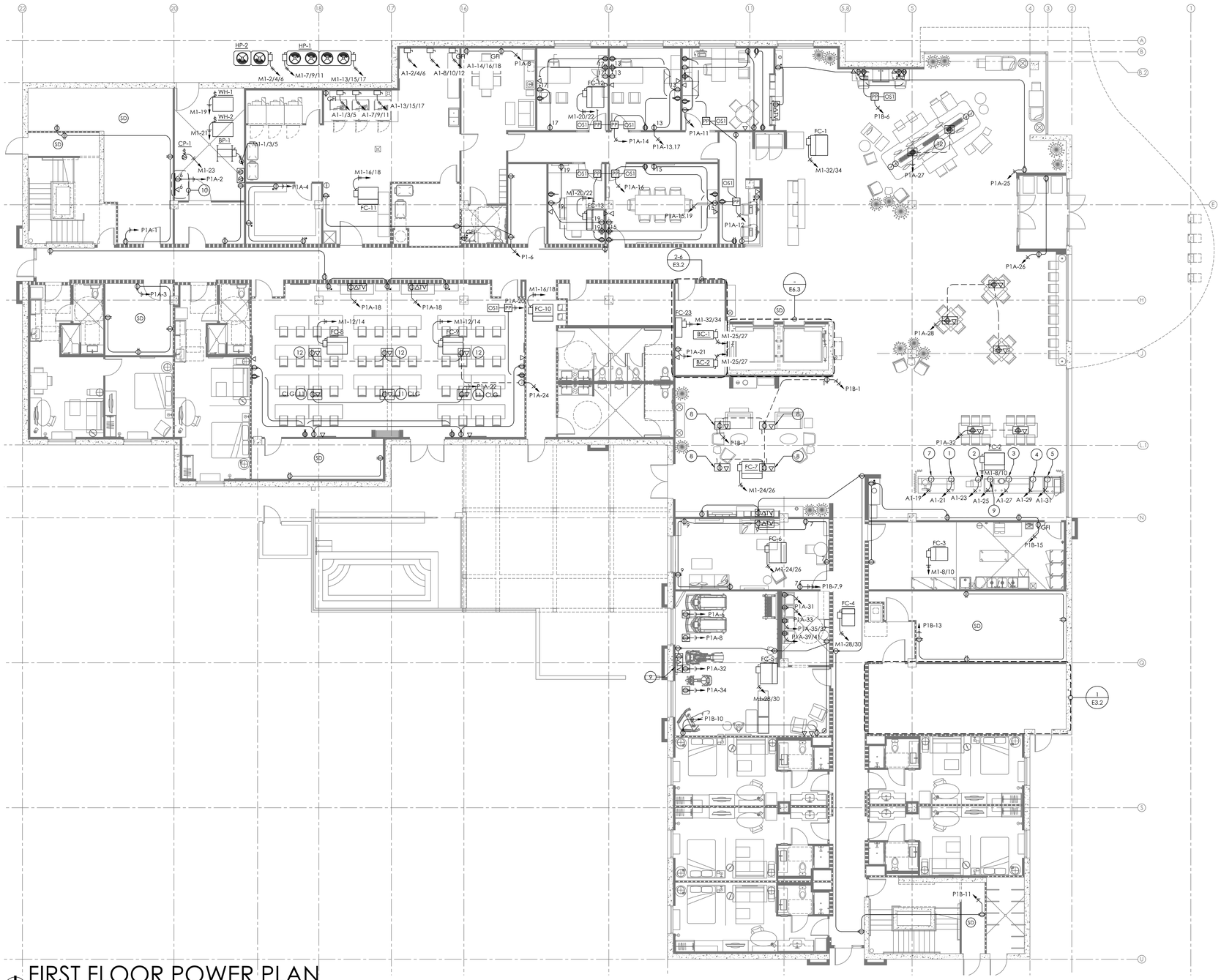
**SITE PLAN PHOTOMETRIC**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**

DATE
August 29, 2017

SHEET
E2.2




# FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'0"

## REFERENCE NOTES

(#) GENERAL NOTE: REFERENCE NOTES ARE TYPICAL FOR SHEETS E3.0, E3.1, E3.2, E3.3, AND E3.4. ALL REFERENCE NOTES MAY NOT OCCUR ON THIS SHEET.

1. TOASTER OVEN. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
2. MICROWAVE. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
3. KETTLE RETHERMALIZER. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
4. REFRIGERATOR. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
5. JUICE DISPENSER. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
6. DROP IN COLD WELL. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
7. -
8. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION TO EACH DUPLEX RECEPTACLE WITH USB CONNECTION. FLOOR BOX WITH DEVICE AS INDICATED. INSTALL PER DIVISION 26 SPECIFICATIONS.
9. COORDINATE TV LOCATIONS IN FITNESS ROOM.
10. DADO TRUNK WITH 6 RECEPTACLE AND 6 DATA PORTS. INSTALL PER VENDER SPECIFICATION. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
11. POWER AND DATA RECEPTACLES PROVIDED AT THE CEILING FOR PROJECTOR.
12. FLUSH FLOOR BOX WITH DEVICES AS NOTED. REFER TO DIVISION 26 SPECIFICATION.
13. RECEPTACLE FOR WATER HEATER. COORDINATE RECEPTACLE LOCATION WITH MECHANICAL PLANS FOR LOCATION OF WATER HEATER. WH-1, PRIOR TO ROUGH-IN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR BRANCH CIRCUIT CONNECTION.
14. UL 924 LISTED BATTERY POWER SUPPLY. SEE SINGLE LINE DIAGRAM. PROVIDE ENCLOSURE WITH CUSTOM SEISMIC BRACING AND ATTACHMENT (ACROSS THE FRONT AND BACK OF THE ENCLOSURE) AS PER MANUFACTURER REQUIREMENTS. PROVIDE SEISMIC BRACING SHOP DRAWINGS AS NEEDED FOR APPROVAL PRIOR TO INSTALLATION.
15. MAINTAIN 24" SIDE ACCESS CLEARANCE TO BATTERY POWER SUPPLY AS PER MANUFACTURER REQUIREMENTS.
16. OUTLINE OF ELECTRICAL WORKING CLEARANCE IN ACCORDANCE TO CEC 110 SHALL BE IDENTIFIED AND PAINTED ON THE FLOOR. PROTECTIVE BARRIER POSTS SHALL BE INSTALLED AT +48" O.C. AS PER ARCHITECTURAL SPECIFICATIONS.

DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING. GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.

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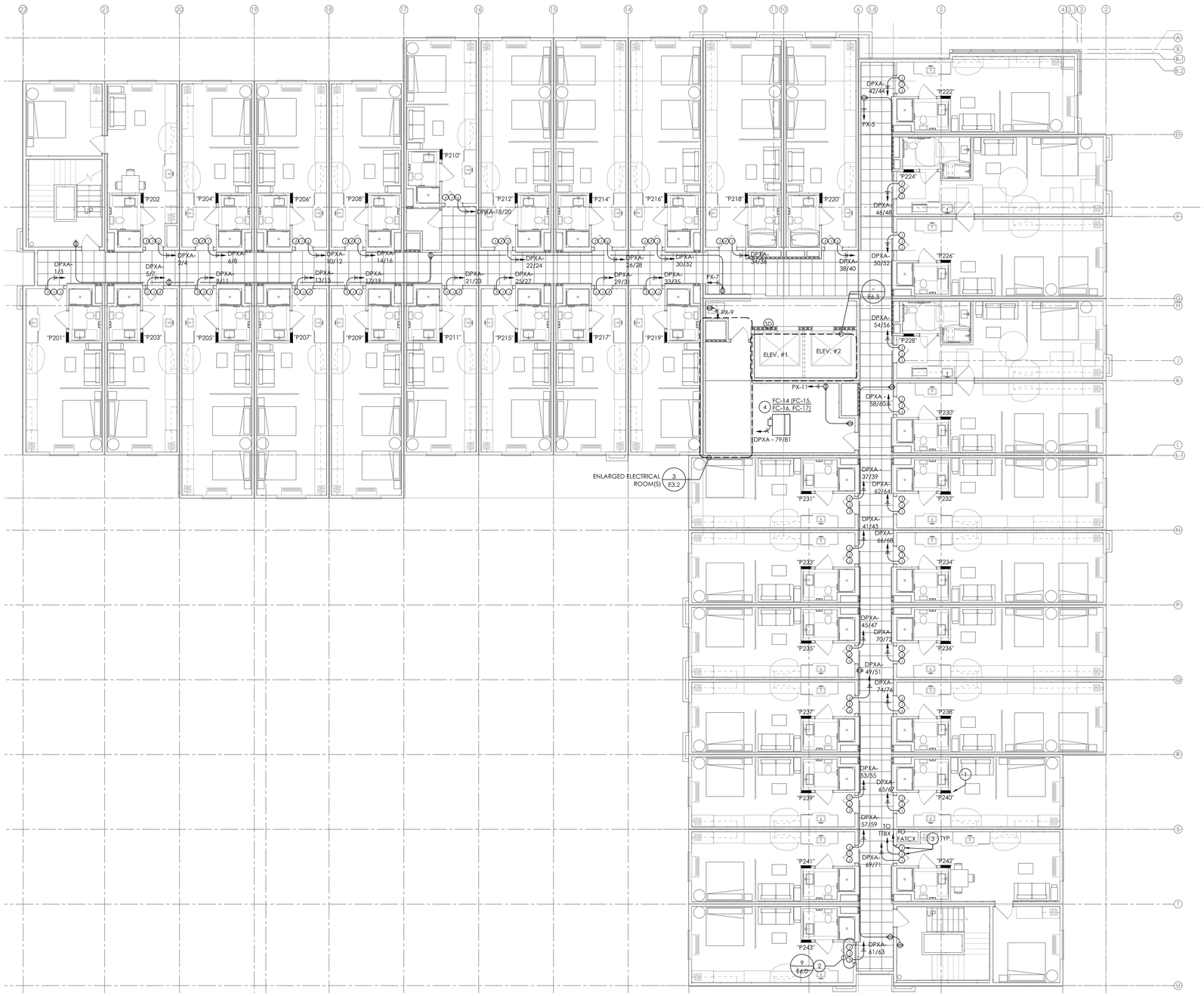
PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**FIRST FLOOR POWER PLAN**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**
DATE
August 29, 2017
SHEET
E3.0




## SECOND FLOOR POWER PLAN (THIRD,FOURTH & FIFTH FLOORS SIMILAR)

SCALE: 1/8" = 1'0"

## REFERENCE NOTES

(#) GENERAL NOTE: REFERENCE NOTES ARE TYPICAL FOR SHEETS E3.0, E3.1, E3.2, E3.3, AND E3.4. ALL REFERENCE NOTES MAY NOT OCCUR ON THIS SHEET.

1. TOASTER OVEN. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
2. MICROWAVE. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
3. KETTLE RETHERMALIZER. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
4. REFRIGERATOR. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
5. JUICE DISPENSER. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
6. DROP IN COLD WELL. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
7. -
8. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION TO EACH DUPLEX RECEPTACLE WITH USB CONNECTION. FLOOR BOX WITH DEVICE AS INDICATED. INSTALL PER DIVISION 26 SPECIFICATIONS.
9. COORDINATE TV LOCATIONS IN FITNESS ROOM.
10. DADO TRUNK WITH 6 RECEPTACLE AND 6 DATA PORTS. INSTALL PER VENDER SPECIFICATION. PROVIDE DEDICATED BRANCH CIRCUIT CONNECTION AS INDICATED.
11. POWER AND DATA RECEPTACLES PROVIDED AT THE CEILING FOR PROJECTOR.
12. FLUSH FLOOR BOX WITH DEVICES AS NOTED. REFER TO DIVISION 26 SPECIFICATION.
13. RECEPTACLE FOR WATER HEATER. COORDINATE RECEPTACLE LOCATION WITH MECHANICAL PLANS FOR LOCATION OF WATER HEATER. WH-1, PRIOR TO ROUGH-IN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR BRANCH CIRCUIT CONNECTION.
14. UL 924 LISTED BATTERY POWER SUPPLY. SEE SINGLE LINE DIAGRAM. PROVIDE ENCLOSURE WITH CUSTOM SEISMIC BRACING AND ATTACHMENT (ACROSS THE FRONT AND BACK OF THE ENCLOSURE) AS PER MANUFACTURER REQUIREMENTS. PROVIDE SEISMIC BRACING SHOP DRAWINGS AS NEEDED FOR APPROVAL PRIOR TO INSTALLATION.
15. MAINTAIN 24" SIDE ACCESS CLEARANCE TO BATTERY POWER SUPPLY AS PER MANUFACTURER REQUIREMENTS.
16. OUTLINE OF ELECTRICAL WORKING CLEARANCE IN ACCORDANCE TO CEC 110 SHALL BE IDENTIFIED AND PAINTED ON THE FLOOR. PROTECTIVE BARRIER POSTS SHALL BE INSTALLED AT +48" O.C. AS PER ARCHITECTURAL SPECIFICATIONS.

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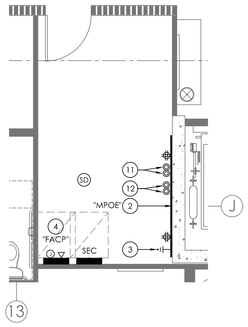
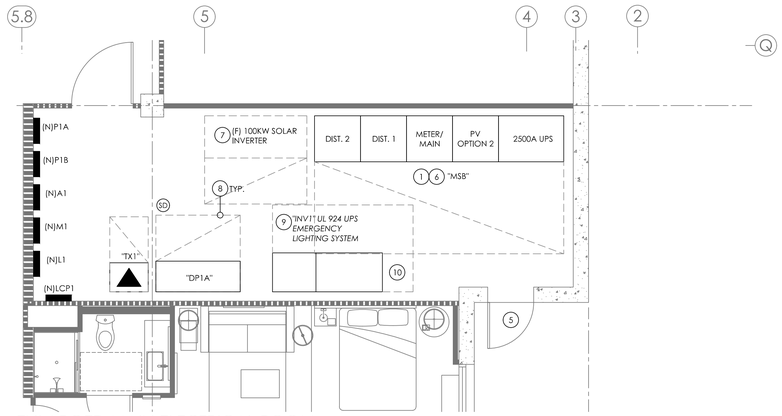
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA
**SECOND FLOOR POWER PLAN**

| # | REVISION | DATE |
|---|---|---|
| | | |

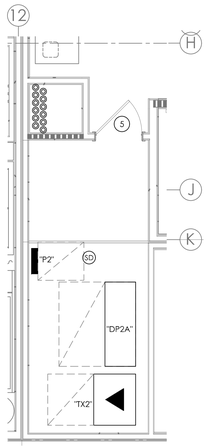
PROJECT
A15115
DATE
August 29, 2017
SHEET
E3.1



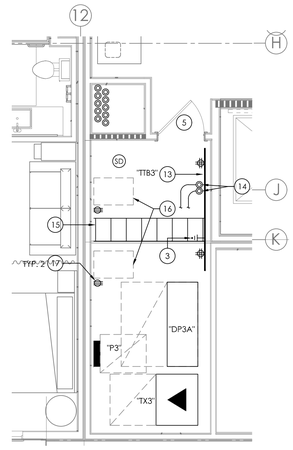

## (2) ENLARGED FIRST FLOOR A/V ROOM
SCALE: 1/4" = 1'-0"



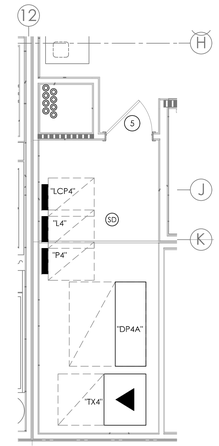

## (1) ENLARGED MAIN ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



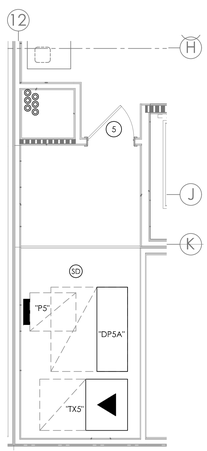

## (3) ENLARGED SECOND FLOOR ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"




## (4) ENLARGED THIRD FLOOR ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"




## (5) ENLARGED FOURTH FLOOR ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"




## (6) ENLARGED FIFTH FLOOR ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

## REFERENCE NOTES

1. MAIN ELECTRICAL SWITCHBOARD. SEE SINGLE LINE DIAGRAM. PULL SECTION SHALL MAINTAIN MINIMUM DIMENSIONS AS FOLLOWS PER PG&E SERVICE REQUIREMENTS:
   1.1. WIDTH: 42"
   1.2. TERMINATION HEIGHT: 60-72"
2. TELEPHONE AND CATV UTILITIES TERMINAL BOARD "MPOE". PROVIDE 3/4" THICK X 8'H, LENGTH PER PLANS PLYWOOD BACK BOARD PAINTED WITH FIRE RETARDANT PAINT. MAINTAIN 3' WORKING CLEARANCE IN FRONT OF BACK BOARD. SERVICE CONDUIT SHALL BE STUBBED UP A MINIMUM OF 2" ABOVE FLOOR LEVEL.
3. COMMUNICATIONS BACKBOARD GROUND BUS WITH #4 CU. GROUND CONDUCTOR. REFER TO DIVISION 26 SPECIFICATIONS.
4. BUILDING FIRE ALARM CONTROL PANEL. PROVIDE DEDICATED 120V BRANCH CIRCUIT CONNECTION AND MOUNT SMOKE DETECTOR ABOVE THE PANEL (DEFERRED APPROVAL).
5. ELECTRICAL ROOM SHALL OPEN IN THE DIRECTION OF EGRESS AND SHALL BE EQUIPPED WITH PANIC BARS, PRESSURE PLATES, OR OTHER DEVICES WHICH ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATION.
6. THE FOLLOWING DEDICATED EQUIPMENT SPACE / CLEARANCE SHALL BE MAINTAINED AT ELECTRICAL GEAR AS FOLLOWS / APPLICABLE:
   6.1. LARGE EQUIPMENT [CEC 110.26(C)(2)(b)] - DOUBLE CLEARANCE IN FRONT OF ELECTRICAL SWITCHGEAR, +6' HORIZONTAL FROM FACE OF GEAR.
   6.2. DEDICATED SPACE [CEC 110.26(E)(1)(a)] - SPACE EQUAL TO THE WIDTH AND DEPTH OF THE "MSB" EXTENDING FROM FINISHED FLOOR TO A HEIGHT OF +6' ABOVE THE EQUIPMENT OR TO STRUCTURAL CEILING, WHICHEVER IS LOWER.
   6.3. DEDICATED WORK SPACE [CEC 110.26(A)(1)] OF 3' DIRECTLY IN FRONT OF THE "MSB".
   6.2. SPRINKLER PROTECTION [CEC 110.26(E)(1)(c)] - INSTALLATION PROHIBITED IN DEDICATED EQUIPMENT SPACE / CLEAR SPACE.
7. FUTURE LOCATION OF BUILDING PHOTOVOLTAIC SYSTEM INVERTER.
8. ELECTRICAL WORKING CLEARANCE AS REQUIRED PER CEC AND UTILITY COMPANY REQUIREMENTS.
9. UL 924 LISTED BATTERY POWER SUPPLY. SEE SINGLE LINE DIAGRAM. PROVIDE ENCLOSURE WITH SEISMIC BRACING AND ATTACHMENT (ACROSS THE FRONT AND BACK OF THE ENCLOSURE) AS PER MANUFACTURER REQUIREMENTS. PROVIDE SEISMIC BRACING SHOP DRAWINGS AS NEEDED FOR APPROVAL PRIOR TO INSTALLATION.
10. MAINTAIN 24" SIDE ACCESS CLEARANCE TO BATTERY POWER SUPPLY AS PER MANUFACTURER REQUIREMENTS.
11. TELEPHONE AND CATV UNDERGROUND UTILITY SERVICE CONDUIT. INSTALL PER UTILITY HANDOUT PACKAGE. LOCATION IDENTIFIED FOR REFERENCE ONLY.
12. TELEPHONE AND CATV UTILITY SERVICE CONDUIT TO SERVER ROOM ON 3RD FLOOR. INSTALL PER UTILITY HANDOUT PACKAGE. LOCATION IDENTIFIED FOR REFERENCE ONLY
13. TELEPHONE AND CATV UTILITIES TERMINAL BOARD "TTB3". PROVIDE 3/4" THICK X 8'H, LENGTH PER PLANS PLYWOOD BACK BOARD PAINTED WITH FIRE RETARDANT PAINT. MAINTAIN 3' WORKING CLEARANCE IN FRONT OF BACK BOARD. SERVICE CONDUIT SHALL BE STUBBED UP A MINIMUM OF 2" ABOVE FLOOR LEVEL.
14. EXTEND (2) 2" C.O. WITH PULL ROPE TO "MPOE" AT FIRST LEVEL.
15. 18" WIDE LADDER TRAY, LENGTH AS NOTED PER PLAN. MOUNT CLOSE TO CEILING (ABOVE IT RACKS) AS HIGH AS PRACTICAL. LOCATE AND CONFIGURE IN FIELD.
16. IT RACK (BY OTHERS).
17. DEDICATED RECEPTACLE FOR IT RACK. MOUNT TO LADDER TRAY ABOVE RACK. VERIFY RECEPTACLE NEMA CONFIGURATION AS REQUIRED PER COMMUNICATIONS SYSTEM PRIOR TO PROCUREMENT.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ARCHITECT OF RECORD/CONSULTANT


REGISTERED PROFESSIONAL ENGINEER - ANDREW J. GRAY - NOT FOR CONSTRUCTION - 22927 - ELECTRICAL - STATE OF CALIFORNIA
EXPIRES: 12-31-2017
GECE PROJECT # 1.635


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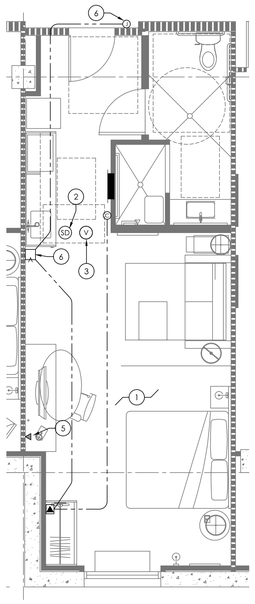
PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA
**ENLARGED ELECTRICAL PLAN**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**
DATE
August 29, 2017
SHEET
E3.2

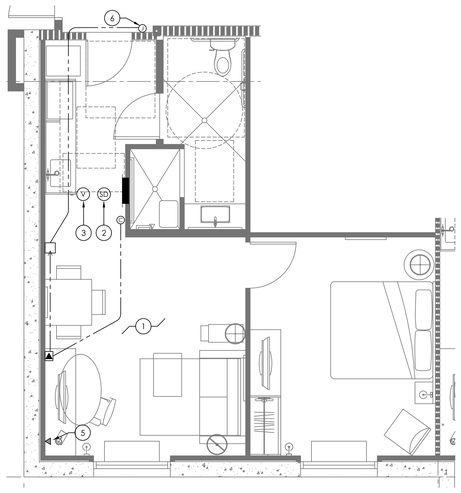


# UNIT TYPE "QQ-STUDIO" ELECTRICAL PLAN

SCALE: 1/4" = 1'0"

TYPICAL FOR UNIT TYPES: QQ

GENERAL NOTE:
UNIT SHOWN IS REPRESENTATIVE OF UNIT TYPES NOTED ABOVE. REFER TO INTERIOR PLANS FOR LAYOUT VARIATIONS IN POWER, COMMUNICATIONS, AND LIGHTING FIXTURES. RECEPTACLE LAYOUT SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING CEC 2016.

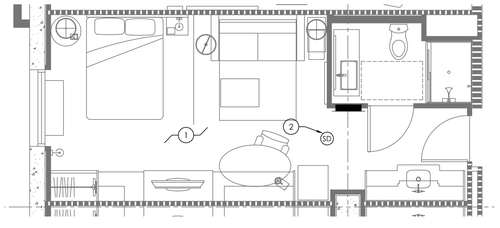


# UNIT TYPE "K-1 BED MOBILITY" ELECTRICAL PLAN

SCALE: 1/4" = 1'0"

TYPICAL FOR UNIT TYPES: K-1

GENERAL NOTE:
UNIT SHOWN IS REPRESENTATIVE OF UNIT TYPES NOTED ABOVE. REFER TO INTERIOR PLANS FOR LAYOUT VARIATIONS IN POWER, COMMUNICATIONS, AND LIGHTING FIXTURES. RECEPTACLE LAYOUT SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING CEC 2016.



# UNIT TYPE "K-STUDIO" ELECTRICAL PLAN

SCALE: 1/4" = 1'0"

TYPICAL FOR UNIT TYPES: K-STUDIO

GENERAL NOTE:
UNIT SHOWN IS REPRESENTATIVE OF UNIT TYPES NOTED ABOVE. REFER TO INTERIOR PLANS FOR LAYOUT VARIATIONS IN POWER, COMMUNICATIONS, AND LIGHTING FIXTURES. RECEPTACLE LAYOUT SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING CEC 2016.

## TYPICAL GUEST UNIT GENERAL NOTES

(NOT MODULAR CONSTRUCTION)

SMOKE DETECTORS

1. SMOKE DETECTORS AND NOTIFICATION DEVICES SHALL BE LISTED AND LABELED IN ACCORDANCE TO UL217. SMOKE DETECTORS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH NEPA 72 AND MANUFACTURER INSTRUCTIONS.

2. SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
   2.1 SLEEPING ROOMS
   2.2 OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
   2.3 IN EACH ADDITIONAL STORY OF THE DWELLING.

3. SMOKE ALARMS SHALL BE PROVIDED WITH A 120V, CONSTANTLY ENERGIZED BRANCH CIRCUIT CONNECTION AS WELL AS A BATTERY POWERED SOURCE / BACKUP.

4. ADHERE TO CALIFORNIA RESIDENTIAL CODE, SECTION R314 FOR ADDITIONAL SPECIFIC INSTALLATION CRITERIA.

5. WHERE MULTIPLE SMOKE DETECTORS ARE INSTALLED WITHIN THE DWELLING UNIT, THEY SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS.

6. SMOKE ALARMS SHALL BE PLACED A MINIMUM OF 20 LF FROM PERMANENTLY INSTALLED COOKING EQUIPMENT, IN THE EVENT THIS CLEARANCE CAN NOT BE MAINTAINED, UTILIZE EITHER:
   6.1. IONIZATION SMOKE ALARM WITH AN ALARM SILENCING SWITCH INSTALLED 10 LF OR GREATER FROM PERMANENTLY INSTALLED COOKING EQUIPMENT;
   6.2. OR PHOTOELECTRIC SMOKE ALARM INSTALLED 6LF OR GREATER FROM PERMANENTLY INSTALLED COOKING EQUIPMENT.

7. SMOKE ALARMS, WHERE POSSIBLE, SHALL NOT BE PLACED WITHIN 3 LF FROM A RESTROOM THAT CONTAINS A BATHTUB OR SHOWER.

8. WHERE STAIRS LEADS TO OTHER OCCUPIED LEVELS, SMOKE DETECTORS SHALL BE LOCATED SUCH THAT SMOKE RISING WITHIN THE STAIRWAY CANNOT BE PREVENTED FROM REACHING THE SMOKE DETECTOR BY AN INTERVENING DOOR OR OBSTRUCTION.

9. SMOKE DETECTORS INSTALLED AT COFFERED CEILINGS SHALL BE INSTALLED AT THE HIGHEST PORTION OF THE CEILING OR ON THE SLOPED PORTION OF THE CEILING WITHIN 12 INCHES VERTICALLY DOWN FROM THE HIGHEST POINT.

10. FOR SLOPED CEILINGS WITH BEAMS RUNNING UP THE SLOPE, THE SMOKE DETECTOR SHALL BE PLACED ON THE CEILING BETWEEN THE BEAMS.

11. FOR SLOPED CEILINGS WITH BEAMS RUNNING PARALLEL TO THE RIDGE OR FOR THE SLOPED CEILING WITH BEAM POCKETS FORMED BY INTERSECTING BEAMS, THE SMOKE DETECTOR SHALL BE LOCATED AT THE BOTTOM OF THE BEAM.

CARBON MONOXIDE ALARMS

12. CARBON MONOXIDE ALARMS SHALL BE LISTED AND LABELED IN ACCORDANCE TO UL 2034. CARBON MONOXIDE ALARMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE TO NEPA 720 AND MANUFACTURERS INSTRUCTIONS.

13. CARBON MONOXIDE ALARMS ARE PERMITTED TO BE INTEGRAL WITH SMOKE ALARM DEVICES.

14. CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
   14.1 IN DWELLING UNITS AND SLEEPING UNITS WITHIN WHICH FUEL-BURNING APPLIANCES ARE INSTALLED.

15. ADHERE TO CALIFORNIA RESIDENTIAL CODE, SECTION R315 FOR ADDITIONAL SPECIFIC INSTALLATION CRITERIA.

16. WHERE CARBON MONOXIDE ALARMS ARE INSTALLED WITHIN THE DWELLING UNIT, THEY SHALL BE PROVIDED WITH A 120V, CONSTANTLY ENERGIZED, BRANCH CIRCUIT CONNECTION AS WELL AS A BATTERY POWERED SOURCE / BACKUP.

17. WHERE MULTIPLE CARBON MONOXIDE ALARMS ARE INSTALLED WITHIN THE DWELLING UNIT, THEY SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS.

ARC FAULT CIRCUIT INTERRUPTER

18. ARC FAULT CIRCUIT BREAKER INTERRUPTER PROTECTION SHALL BE PROVIDED AS PER CEC 210.12 IN THE FOLLOWING AREAS:
   18.1 DWELLING UNIT KITCHENS.
   18.2 DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, AND DENS.
   18.3 DWELLING UNIT BEDROOMS AND SLEEPING ROOMS.
   18.4 DWELLING UNIT SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND LAUNDRY AREAS.

19. ARC FAULT CIRCUIT BREAKER PROTECTION SHALL BE PROVIDED FOR THE ENTIRE BRANCH CIRCUIT SERVING AREAS AS NOTED IN #12 (ABOVE).

DWELLING UNIT REQUIRED OUTLETS

20. DWELLING UNIT OUTLETS SHALL BE INSTALLED SUCH THAT:
   20.1. NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE (BETWEEN DEVICES) IS MORE THAN 6 FEET FROM A RECEPTACLE OUTLET, CEC 210-52(A-1)
   20.2. ANY WALL 2' OR MORE IN WIDTH SHALL HAVE A RECEPTACLE. CEC 210-52(A-2.1)
   20.3. KITCHEN RECEPTACLES - RECEPTACLE OUTLETS SHALL BE PROVIDED AT EACH WALL COUNTER SPACE OVER 12" OR WIDER. COUNTER SPACE RECEPTACLES SHALL BE PROVIDED AT 4' O.C. MINIMUM, AND WITHIN 24" OF ANY POINT ALONG THE WALL. ISLAND COUNTERS SHALL HAVE A MINIMUM OF ONE RECEPTACLE OUTLET. CEC 210.52(c)(1)
   20.4. A MINIMUM OF ONE RECEPTACLE OUTLET SHALL BE PROVIDED IN ADDITION TO ANY REQUIRED FOR LAUNDRY OR OTHER EQUIPMENT LOCATED IN A GARAGE. CEC 210.52(F & G).
   20.5. REFER TO CEC 210.52 FOR ADDITIONAL SPACING CRITERIA FOR BASEMENTS, HALLWAYS, AND FOYERS.

21. TWO (OR MORE) OUTLETS SHALL BE PROVIDED FOR SMALL APPLIANCES. OUTLETS SHALL BE DEDICATED.

22. TWO (OR MORE) OUTLETS SHALL BE INSTALLED IN A BATHROOM.

23. ONE (OR MORE) GFCI PROTECTED OUTLET(S) SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION OUTDOORS, AT THE FRONT AND BACK OF A DWELLING. WEATHER-PROOF HOUSINGS AND WATERPROOF WHILE-IN-USE COVERS SHALL BE REQUIRED IN DAMP LOCATIONS. CEC 210-52(E.1), CEC 210-8(a)3. CEC 410-57(a)

24. ONE (OR MORE) OUTLET(S) SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION OUTDOORS AT AN ATTACHED BALCONY, DECK, OR PORCH.

25. ONE (OR MORE) OUTLET(S) SHALL BE INSTALLED IN THE LAUNDRY AREA.

26. ONE (OR MORE) OUTLET(S) SHALL BE INSTALLED FOR EVERY CAR SPACE AT THE GARAGE.

27. TAMPER PROOF RECEPTACLES SHALL BE INSTALLED IN THE DWELLING UNITS, GUEST ROOMS, SUITES, AND CHILD CARE AREAS AS OUTLINED IN CEC 406.12.

DWELLING UNIT LIGHTING REQUIREMENTS

28. LIGHTING OUTLETS REQUIRED: AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS, PER CEC 210-70 (A)(B) AND (C):
   28.1. LAUNDRY ROOMS
   28.2. ATTACHED GARAGES
   28.3. EXTERIOR SIDE OF OUTDOOR ENTRANCES AND EXITS
   28.4. STORAGE OR EQUIPMENT SPACES - FOR ATTICS, UNDERFLOOR SPACES, UTILITY ROOMS, AND BASEMENTS.

29. SWITCHING DEVICES AND CONTROLS:
   29.1. ALL PERMANENTLY INSTALLED HIGH EFFICACY LUMINAIRES SHALL BE SWITCHED SEPARATELY FROM LOW EFFICACY LUMINAIRES. 2010 CALIFORNIA ENERGY CODE 150(k)7B.
   29.2. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEM(S). 2010 CALIFORNIA ENERGY CODE 150(k)7B.

## REFERENCE NOTES

(#)

1. ALL GUEST UNIT LIGHTING, HVAC AND RECEPTACLES SHALL BE CONTROLLED PER APPLICABLE CA. TITLE 24 SECTIONS. THIS SHALL INCLUDE THE FOLLOWING:
   1.1. UNITS SHALL HAVE CAPTIVE CARD KEY, OCCUPANCY SENSING, OR OTHER AUTOMATIC CONTROLS THAT AUTOMATICALLY TURN OFF LIGHTING AND HALF OF THE UNIT RECEPTACLES NO LONGER THAN 30 MINUTES AFTER GUEST ROOM HAS BEEN VACATED (130.1(C)8. AND 130.5(D)1.2. AND 3).
   1.2. ONE HIGH-EFFICACY LUMINAIRE, AS DEFINED IN TABLE 150.0-A OR 150.0-B THAT IS SWITCHED SEPARATELY FROM OTHER LUMINAIRES, AND WHERE THE SWITCH IS LOCATED WITHIN 6' OF THE ENTRY DOOR SHALL NOT BE REQUIRED TO AUTOMATICALLY TURN OFF WITHIN 30 MINUTES.
   1.3. UNITS SHALL HAVE CAPTIVE CARD KEY, OCCUPANCY SENSING, OR OTHER AUTOMATIC CONTROLS SUCH THAT, NO LONGER THAN 30 MINUTES AFTER ROOM HAS BEEN VACATED, SETPOINTS ARE SETUP AT LEAST +5°F (+3°C) IN COOLING MODE AND SET-DOWN AT LEAST -5°F (-3°C) IN HEATING MODE (120.2(E)4.

2. ENSURE ALL UNITS ARE PROVIDED WITH A COMBINATION SMOKE AND CARBON MONOXIDE ALARM(S) THAT ARE APPROVED AND LISTED BY THE OFFICE OF THE STATE FIRE MARSHALL. MULTIPLE DETECTORS INSTALLED WITHIN THE UNIT SHALL BE INTERCONNECTED WITH THE FACILITY FIRE ALARM CONTROL SYSTEM, SUCH THAT ACTIVATION OF ANY ONE (1) ALARM WILL ACTIVATE ALL ALARMS WITHIN THE FACILITY, TYPICAL.

3. ACCESSIBLE HEARING IMPAIRED UNITS SHALL BE PROVIDED WITH A COMBINATION SMOKE AND CARBON MONOXIDE ALARM WITH A HARDWIRED VISUAL / AUDIBLE STROBE, INTERCONNECTED WITH THE FACILITY FIRE ALARM CONTROL SYSTEM, SUCH THAT ACTIVATION OF ANY ONE (1) ALARM WILL ACTIVATE ALL VISIBLE / AUDIBLE STROBES WITHIN THE FACILITY, TYPICAL.

4. ACCESSIBLE HEARING IMPAIRED UNITS SHALL BE PROVIDED WITH A VISIBLE NOTIFICATION STROBE INTERCONNECTED WITH THE UNIT DOOR BELL. VISIBLE ALARMS SHALL BE INSTALLED PER NFPA 72 AND CBC 907.5.2.3.

5. ACCESSIBLE HEARING IMPAIRED UNITS SHALL BE PROVIDED WITH A STAND-ALONE, HARDWIRED MEANS OF VISUAL NOTIFICATION INTERCONNECTED WITH THE TELEPHONE. VISIBLE ALARMS SHALL BE INSTALLED PER NFPA 72 AND CBC 907.5.2.3.

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**ENLARGED GUEST UNITS**

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**A15115**

DATE
August 29, 2017

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E3.3

# FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'0"

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**FIRST FLOOR LIGHTING PLAN**

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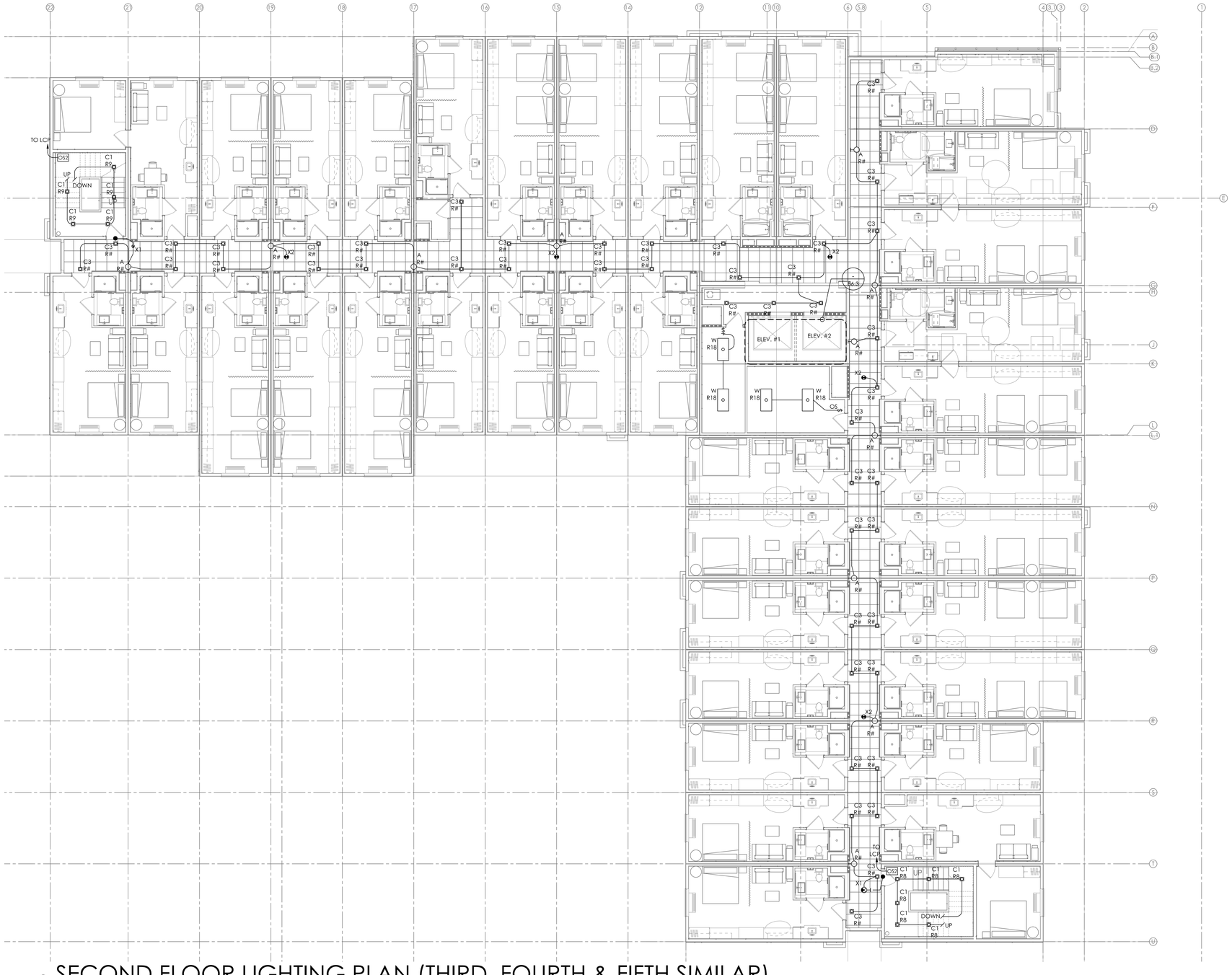


# SECOND FLOOR LIGHTING PLAN (THIRD, FOURTH & FIFTH SIMILAR)

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**SECOND FLOOR LIGHTING PLAN**

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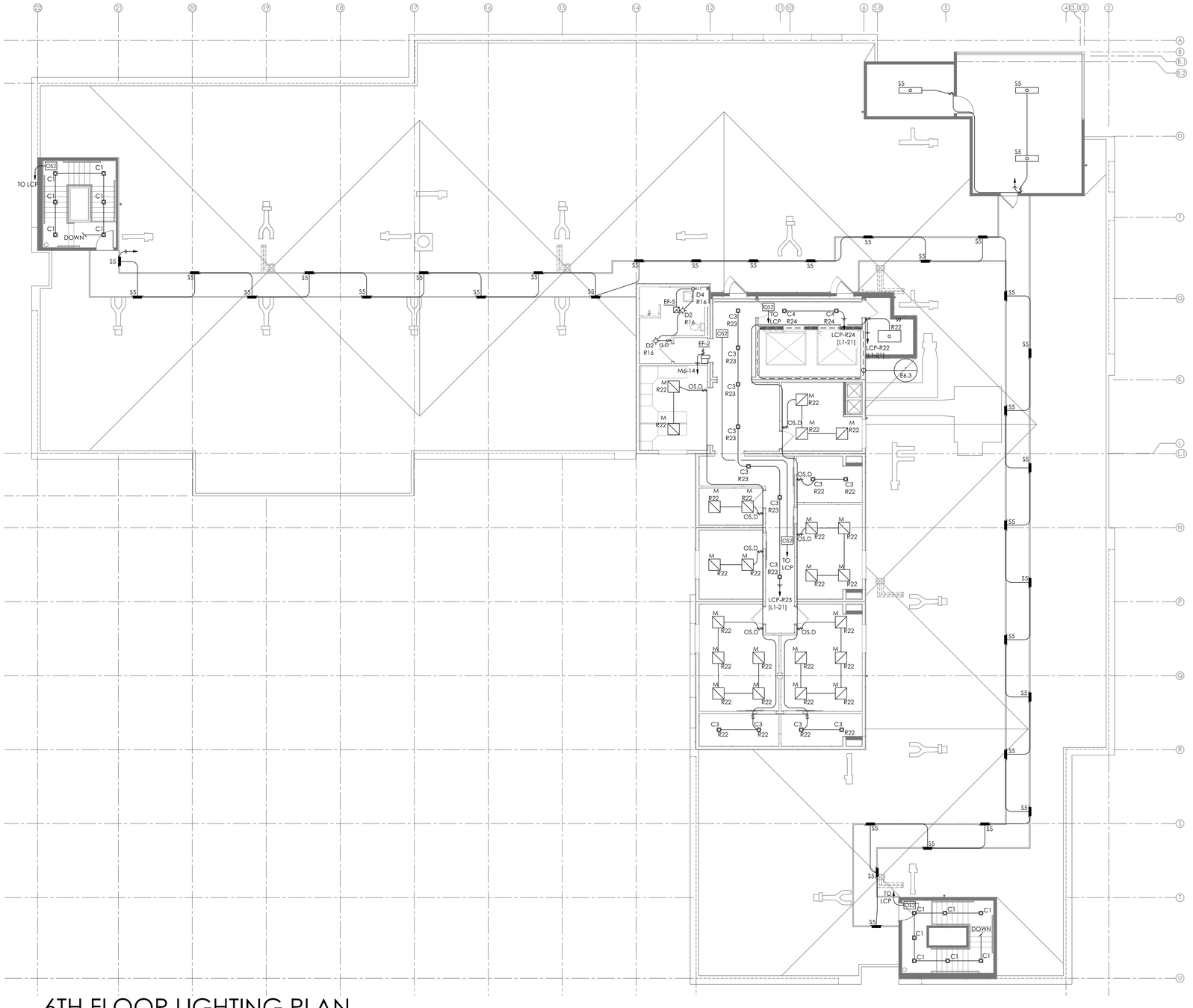


# 6TH FLOOR LIGHTING PLAN

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**6TH FLOOR LIGHTING PLAN**

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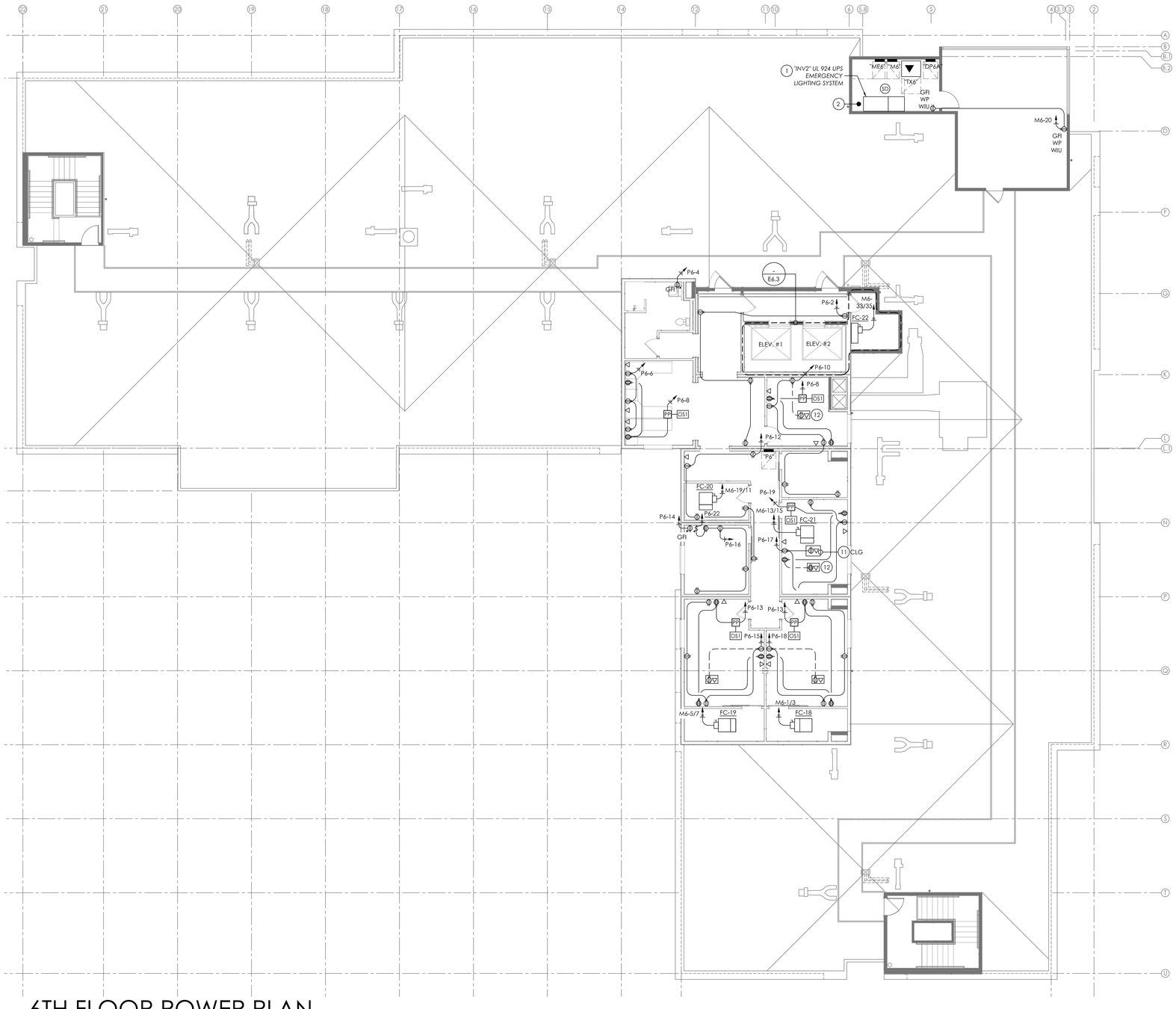


# 6TH FLOOR POWER PLAN

SCALE: 1/8" = 1'0"

## REFERENCE NOTES

(#)

1. UL 924 LISTED BATTERY POWER SUPPLY. SEE SINGLE LINE DIAGRAM. PROVIDE ENCLOSURE WITH SEISMIC BRACING AND ATTACHMENT (ACROSS THE FRONT AND BACK OF THE ENCLOSURE) AS PER MANUFACTURER REQUIREMENTS. PROVIDE SEISMIC BRACING SHOP DRAWINGS AS NEEDED FOR APPROVAL PRIOR TO INSTALLATION.
2. MAINTAIN 24" SIDE ACCESS CLEARANCE TO BATTERY POWER SUPPLY AS PER MANUFACTURER REQUIREMENTS.

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**6TH FLOOR POWER PLAN**

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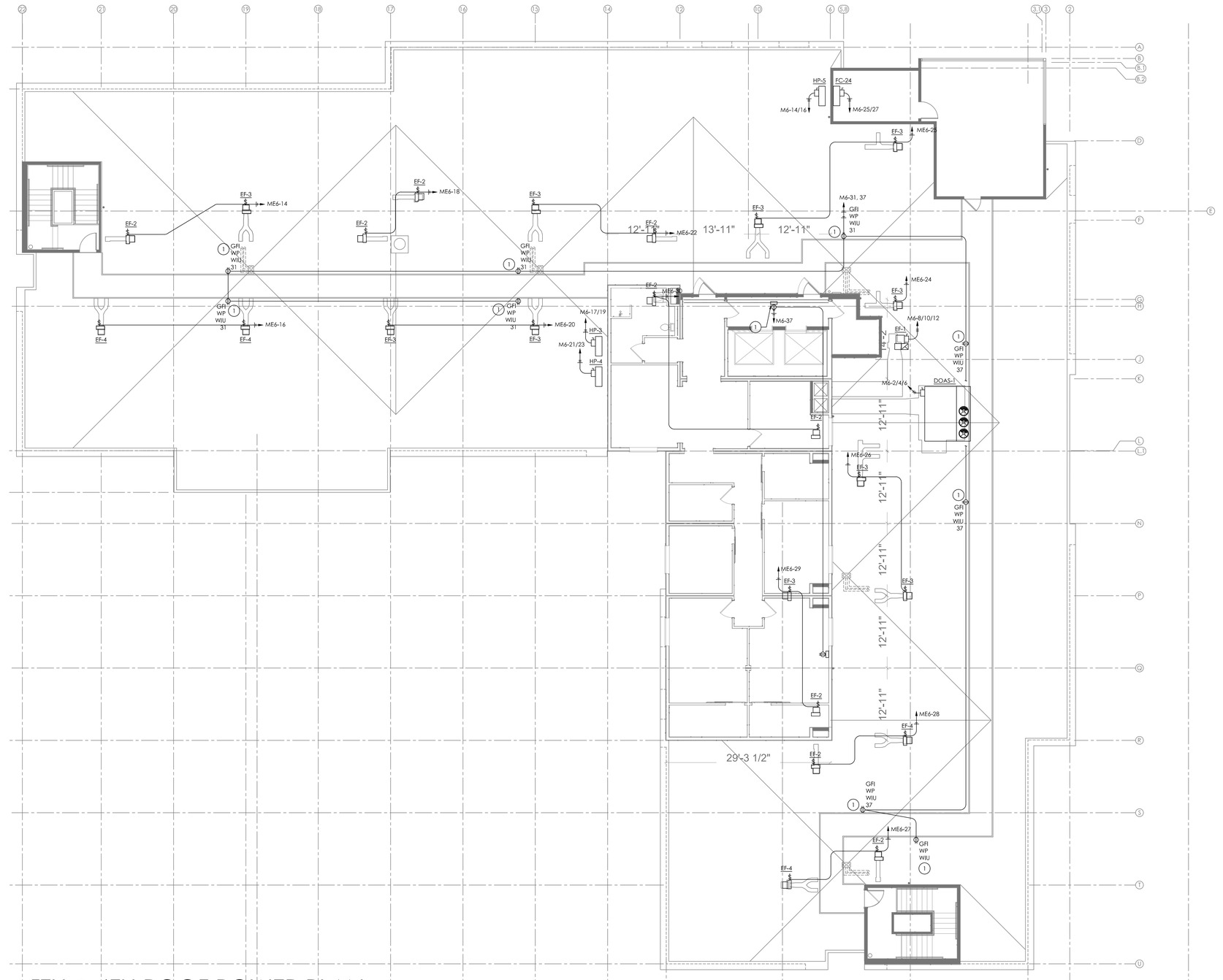


## REFERENCE NOTES

(#)

1. CONVENIENCE RECEPTACLE LOCATED WITHIN 25-FEET OF ROOF TOP MECHANICAL UNIT. COORDINATE FINAL MOUNTING LOCATION IN FIELD.

# 5TH & 6TH ROOF POWER PLAN

SCALE: 1/8" = 1'0"

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**5TH & 6TH ROOF POWER PLAN**

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**A15115**

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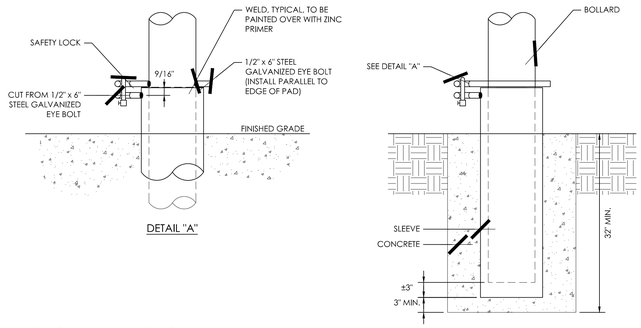
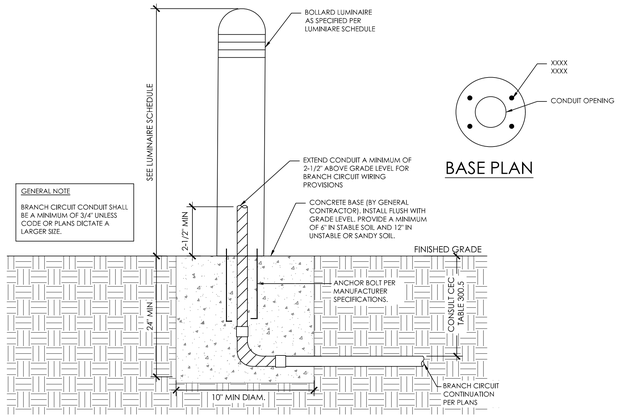
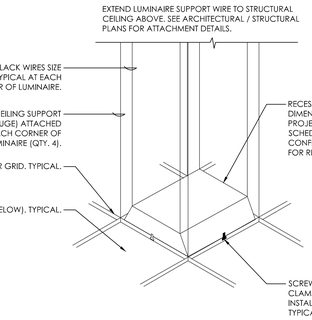



## 7 REMOVABLE PIPE BOLLARD
NOT TO SCALE



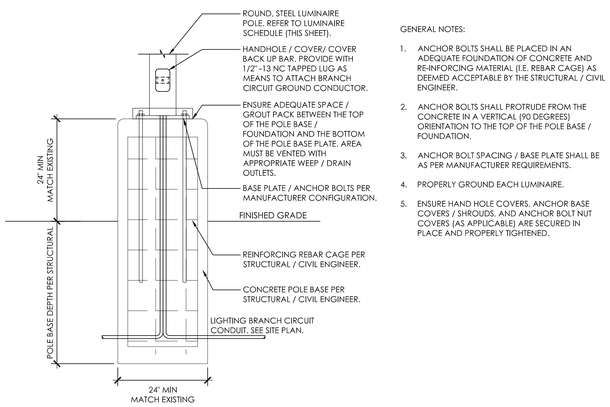

## 4 TYPICAL BOLLARD BASE DETAIL -- LIGHTING
NOT TO SCALE




| LUMINAIRE SLACK WIRE REQUIREMENT MATRIX | |
|---|---|
| *LUMINAIRE WEIGHT* | *REQUIREMENT* |
| <10 LBS. | MIN. (1) #12 WIRE |
| 10-55 LBS. | MIN. (1) #12 WIRE |
| >/= 56 LBS. | INDEPENDENTLY SUPPORT FROM STRUCTURE |

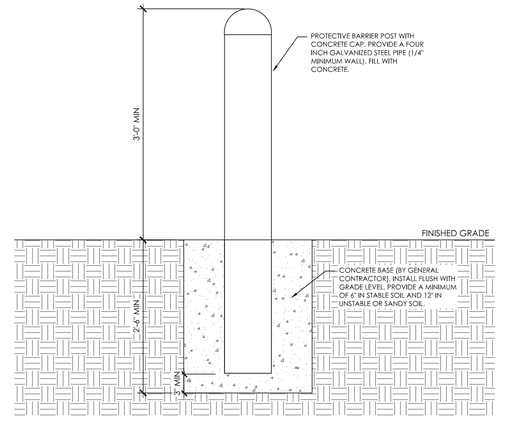
NOTES:
1. WHERE LUMINAIRE IS INSTALLED WITHIN PROXIMITY OF INSULATION, MAINTAIN APPROPRIATE SEPARATION AS DEFINED PER MANUFACTURER REQUIREMENTS.
2. SEISMIC SUPPORTS SHALL MEET IBC / T-24 SEISMIC REQUIREMENTS.
3. INSTALLATION OF LUMINAIRES SHALL COMPLY WITH CEC ARTICLE 410, "LUMINAIRES, LAMP HOLDERS, & LAMPS".

## 1 TYPICAL RECESSED TROFFER IN ACOUSTICAL CEILING
NOT TO SCALE

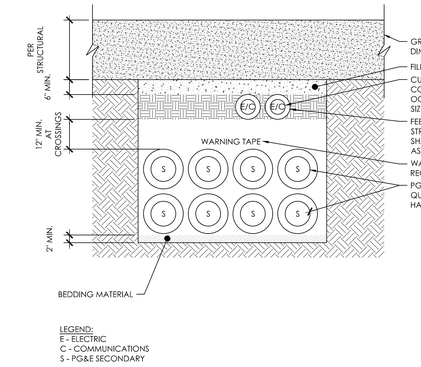



GENERAL NOTES:
1. ANCHOR BOLTS SHALL BE PLACED IN AN ADEQUATE FOUNDATION OF CONCRETE AND RE-INFORCING MATERIAL (I.E. REBAR CAGE) AS DEEMED ACCEPTABLE BY THE STRUCTURAL / CIVIL ENGINEER.
2. ANCHOR BOLTS SHALL PROTRUDE FROM THE CONCRETE IN A VERTICAL (90 DEGREES) ORIENTATION TO THE TOP OF THE POLE BASE / FOUNDATION.
3. ANCHOR BOLT SPACING / BASE PLATE SHALL BE AS PER MANUFACTURER REQUIREMENTS.
4. PROPERLY GROUND EACH LUMINAIRE.
5. ENSURE HAND HOLE COVERS, ANCHOR BASE COVERS / SHROUDS, AND ANCHOR BOLT NUT COVERS (AS APPLICABLE) ARE SECURED IN PLACE AND PROPERLY TIGHTENED.

## 8 TYPICAL POLE BASE DETAIL
NOT TO SCALE



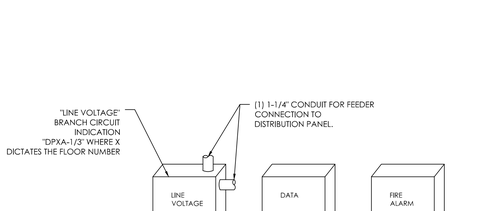

## 5 TYPICAL PROTECTIVE BARRIER POST
NOT TO SCALE




LEGEND:
E - ELECTRIC
C - COMMUNICATIONS
S - PG&E SECONDARY

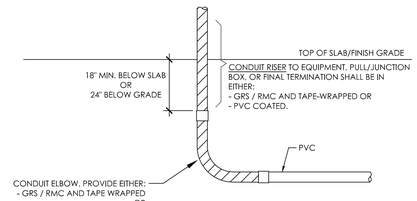
GENERAL NOTES:
1. MINIMUM PG&E REQUIRED CLEARANCE FROM CUSTOMER OWNED FACILITIES SHALL BE MAINTAINED AT ALL TIMES.
2. ALL CONDUIT ROUTING UNDER GRADE BEAMS AND STRUCTURAL MEMBERS SHALL BE INSTALLED AS PER STRUCTURAL REQUIREMENTS.
3. CONDUIT ROUTING SHALL NOT PENETRATE OR CROSS UNDER STRUCTURAL FOOTINGS.
4. TRENCH FILL SHALL BE PER PG&E AND STRUCTURAL EOR AS APPLICABLE.
5. WARNING TAPE SHALL BE INSTALLED PER PG&E GREENBOOK REQUIREMENTS, RED, 3-INCH WIDE "PG&E ELECTRIC LINE IN CONDUIT" PLASTIC MARKING TAPE, SHALL BE INSTALLED, SPIRAL WOUND IN A MANNER THAT ALLOWS FOR THE TAPE TO BE READILY VISIBLE EVERY 3 FEET. INSTALL TAPE WITH EACH CONDUIT INTENDED TO BE USED FOR PG&E ELECTRIC FACILITIES (PG&E GREENBOOK S5453, EXHIBIT B).

## 2 CONDUIT INSTALLATION BELOW GRADE BEAM
NOT TO SCALE



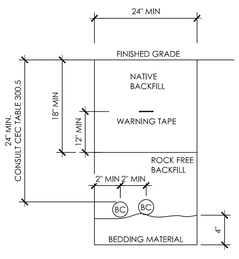

GENERAL NOTES:
1. REFER TO SHEET E6.2 FOR FIRE PENETRATION.
2. CLOSEST UNITS TO ELECTRICAL ROOM RUN BACK TO COMMUNICATIONS TERMINAL AT 3RD LEVEL. DAISY CHAIN AFTER THAT TO ADDITIONAL UNITS (REFER TO PLANS).
3. METAL BOX SHALL BE GROUNDED AND BODED.

## 9 ELECTRICAL, COMMUNICATION, AND FIRE ALARM PROVISIONS AT GUEST UNIT
NOT TO SCALE




NOTES:
1. REFER TO TRENCH DETAILS FOR SPECIFICATIONS OF CONDUIT DEPTH.
2. WHEN CONDUIT IS TAPE-WRAPPED IT SHALL BE 1/2" LAPPED TO 3' ABOVE FINISHED GRADE OR TOP OF SLAB.

## 6 UNDERGROUND CONDUIT TRANSITION TO ABOVE GRADE OR ABOVE SLAB
NOT TO SCALE




CONDUIT LEGEND

"BC" LINE VOLTAGE BRANCH CIRCUIT (I.E. POWER / LIGHTING)

GENERAL NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PG&E UNDERGROUND SERVICE ALERT (USA) PRIOR TO DIGGING/EXCAXCAVATING TO LOCATE EXISTING UTILITIES IN PROXIMITY.
2. CONSULT CEC TABLE 300.5 FOR MINIMUM COVER REQUIREMENTS WHERE INSTALLATION, SPECIFICALLY WHERE CONDUITS IS INSTALLED UNDER STREETS, ROADWAYS, DRIVEWAYS AND PARKING AREAS.

## 3 TYPICAL BRANCH CIRCUIT TRENCH DETAIL
NOT TO SCALE

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NOT FOR CONSTRUCTION
EXPIRES: 12-31-2017
GECE PROJECT #1635

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PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**ELECTRICAL DETAILS**

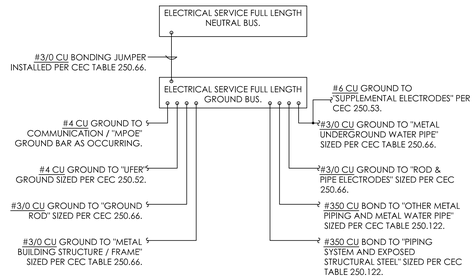
| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
A15115
DATE
August 29, 2017
SHEET
E6.0

NOTE:

ARC FLASH HAZARD WARNING - ELECTRICAL EQUIPMENT (IE. SWITCHGEAR, PANELS, CONTROL PANELS, METER SOCKED ENCLOSURES) THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ARC FLASH HAZARDS. THE MARKING SHALL ADHERE TO NFPA 70E-2009, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE. IN ADDITION, ANSI Z535.4-1998, PRODUCT SAFETY SIGNS AND LABELS. REFER TO DIVISION 26 SPECIFICATION SECTION 26 05 03, " IDENTIFICATION OF ELECTRICAL SYSTEMS" FOR ADDITIONAL REQUIREMENTS.

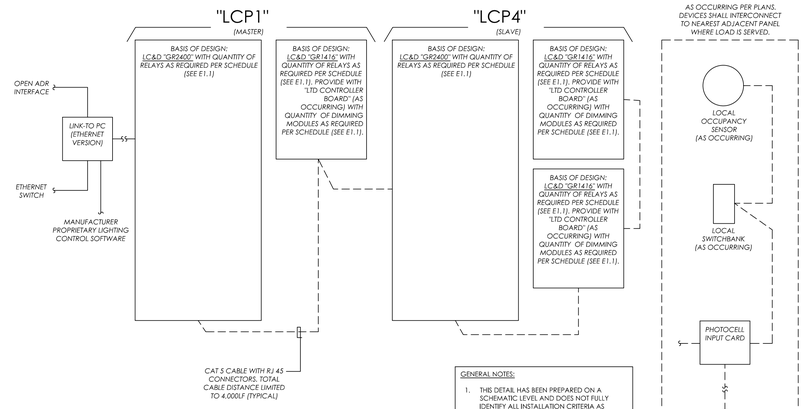
## 6 TYPICAL ARC FLASH SIGNAGE
NOT TO SCALE




GENERAL NOTES

- GROUNDING SHALL BE IN ACCORDANCE TO THE CEC, ARTICLE 250.
- GROUNDING ELECTRODES PRESENT AND STRUCTURE / BUILDING SHALL BE BONDED TOGETHER TO FORM A COMPLETE GROUNDING ELECTRODE SYSTEM. WHERE GROUNDING ELECTRODES IDENTIFIED IN THIS DETAIL AND CEC 250.50 ARE NOT PRESENT, PROVIDE ONE OR MORE CONNECTIONS TO THE ELECTRODE IDENTIFIED / PRESENT.
- CONSULT CEC ARTICLE 250 FOR GROUND RINGS, OTHER LISTED ELECTRODES, AND PLATE ELECTRODES NOT SHOWN IN THIS DETAIL.
- GROUNDING CONDUCTORS SIZED PER CEC TABLE 250.66 SHALL BE COORDINATED WITH THE UTILITY INSTALLED SECONDARY SERVICE CONDUCTOR SPECIFICATION PRIOR TO INSTALLATION.

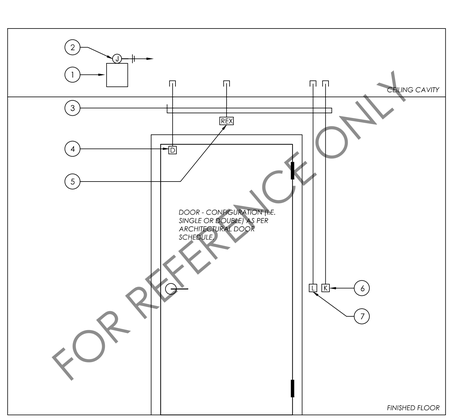
## 3 GROUND / BOND DETAIL AT NEW SERVICE
NOT TO SCALE




GENERAL NOTES:

1. THIS DETAIL HAS BEEN PREPARED ON A SCHEMATIC LEVEL AND DOES NOT FULLY IDENTIFY ALL INSTALLATION CRITERIA AS REQUIRED BY THE MANUFACTURER. SYSTEM BASIS OF DESIGN: LIGHTING CONTROL & DESIGN "LC&D" SYSTEM. PRIOR TO INSTALLATION THE CONTRACTOR SHALL FURNISH A COMPLETE MANUFACTURER ENGINEERING DRAWING, INCLUDING SYSTEM SCHEMATIC AND SPECIFICATIONS, CAPABLE OF ACHIEVING THE DESIGN INTENT AS REPRESENTED ON THE DRAWINGS FOR ENGINEER APPROVAL.
2. THE LIGHTING CONTROL SYSTEM SHALL PROVIDE APPROPRIATE SEPARATION BETWEEN NORMAL AND EMERGENCY POWERED LOADS. NORMAL AND EMERGENCY POWERED LOADS SHALL BE KEPT ENTIRELY INDEPENDENT AS OUTLINED IN CEC ARTICLE 700.
3. THE INSTALLED SYSTEM SHALL BE CAPABLE OF RECEIVING A (FUTURE) DEMAND RESPONSE SIGNAL FROM THE UTILITY COMPANY AS REQUIRED PER CALIFORNIA TITLE 24.

## 4 LIGHTING CONTROL CONCEPTUAL SCHEMATIC
NOT TO SCALE

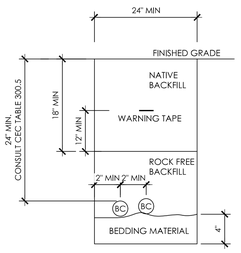



## # DETAIL 4 REFERENCE NOTES

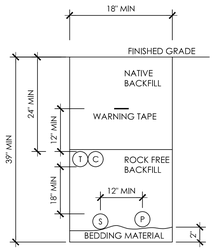
1. BUILDING ACCESS POWER SUPPLY (BY OTHERS, CONFIRM VOLTAGE). PROVIDE WITH BRANCH CIRCUIT CONNECTION FROM NEAREST EMERGENCY / UPS SUPPLIED PANEL. POWER SUPPLY SHALL POWER ELECTRIC DOOR LATCH AS REQUIRED.
2. UPS SUPPLIED BRANCH CIRCUIT AS REQUIRED.
3. EXTEND (1) 1/2"C.O. TO CEILING SPACE ABOVE DOOR AS REQUIRED.
4. DOOR ALARM CONTACTS AS OCCURRING (BY OTHERS).
5. REQUEST TO EXIT DETECTOR AS OCCURRING (BY OTHERS).
6. CARD READER AS OCCURRING (BY OTHERS), LOCATED ON UNSECURED SIDE OF DOOR. VERIFY LOCATION PRIOR TO ROUGH IN.
7. ELECTRIC DOOR LATCH (BY OTHERS).

NOTE: THIS DETAIL HAS BEEN PROVIDED FOR REFERENCE ONLY. COORDINATE ROUGH-IN REQUIREMENTS WITH DOOR HARDWARE / ACCESS CONTROL VENDOR PRIOR TO INSTALLATION.

## 7 TYPICAL BUILDING ACCESS ROUGH-IN SCHEMATIC
NOT TO SCALE




TYPICAL CUSTOMER OWNED FEEDER / BRANCH CIRCUIT




TYPICAL JOINT UTILITY TRENCH

## 5 TYPICAL TRENCHING REQUIREMENTS
NOT TO SCALE

CONDUIT LEGEND

| | |
|---|---|
| "T" | TELEPHONE |
| "C" | CABLE TELEVISION |
| "S" | ELECTRIC SECONDARY |
| "P" | ELECTRIC PRIMARY (UTILITY) |
| "BC" | LINE VOLTAGE BRANCH CIRCUIT OR FEEDER |

CONSULT CEC TABLE 300.5 FOR MINIMUM COVER REQUIREMENTS WHERE INSTALLATION. SPECIFICALLY WHERE CONDUIT IS INSTALLED UNDER STREETS, ROADWAYS, DRIVEWAYS AND PARKING AREAS.

PG&E APPLICANT RESPONSIBILITIES

1. PROVIDE ALL REQUIRED TRENCHING, EXCAVATION, AND BACKFILL.
2. SEPARATE TRENCHES SHALL BE REQUIRED FOR WET AND DRY UTILITY SYSTEMS.
3. CONDUIT INSTALLATION SHALL ADHERE TO PG&E HANDOUT PACKAGE:
   - 3.1 USE SCHEDULE DB-120 FOR APPLICATIONS WITH SAND BACKFILL.
   - 3.2 USE SCHEDULE 40 FOR APPLICATIONS WITH ROCK FREE SOIL
   - 3.3 ALL RISERS SHALL BE GALVANIZED STEEL WHEN EXPOSED ABOVE GRADE.
   - 3.4 CONSULT PG&E HANDOUT PACKAGE FOR CONDUIT BEND RADIUS REQUIREMENTS.
   - 3.5 INSTALL A 2,500LB. TEST POLYESTER PULL TAPE IN ALL CONDUIT. A MANDREL SHALL BE USED TO VERIFY ALL CONDUITS ARE CLEAR OF DEBRIS.
4. LOCATION OF UNDERGROUND UTITIELS SHALL BE DETERMINED PRIOR TO TRENCHING AND EXCAVATION. CALL 1-800-227-2600
5. PG&E APPROVAL SHALL BE OBTAINED FOR ALL WORK, INCLUDING TRENCH INSPECTION. REQUEST FOR INSPECTION SHALL BE MADE A MIN. OF 48 HOURS IN ADVANCE.

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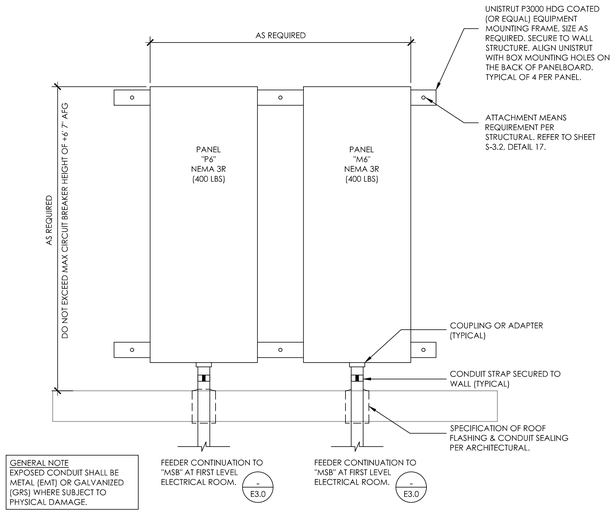
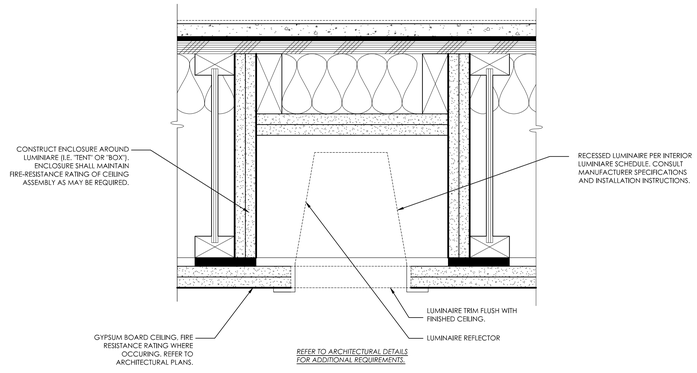



## 1 EQUIPMENT MOUNTING FRAME
NOT TO SCALE




GENERAL NOTES

1. WHERE INSTALLED IN A GYPSUM BOARD CEILING WITH FIRE RESISTANCE RATING: A RECESSED LUMINAIRE THAT IS INSTALLED IN BUILDING CONSTRUCTION WITH A FIRE RESISTANCE RATING SHALL BE ENCLOSED AS IDENTIFIED SUCH THAT THE RESISTANCE RATING IS MAINTAINED.
2. ADHERE TO UL DESIGN NO. P225 FOR THE INSTALLATION AND CONSTRUCTION OF THE FIRE PROTECTION BARRIER (I.E. "TENT" OR "BOXING") AS OUTLINED BELOW:
   - 2.1. HANGER WIRE - MIN. NO. 12SWG GALVANIZED STEEL WIRE TWIST-TIED TO BUILDING STRUCTURE SHALL BE USED TO SUPPORT EACH LUMINAIRE. LUMINAIRES SHALL NOT BE SOLEY SUPPORTED VIA THE CEILING ASSEMBLY AND SHALL BE ATTACHED TO BUILDING STRUCTURE. HANGER WIRE SHALL OCCUR AT ALL FOUR CORNERS OF THE LUMINAIRE. PROVIDE AT MID-SPAN FOR LARGER LUMINARIES.
   - 2.2. LISTING - ALL RECESSED LUMINAIRE SHALL BEAR A UL (OR EQUIVALENT) LISTING.
   - 2.3. ALLOWABLE AREA - THE INSTALLATION OF RECESSED LUMINAIRES IN FIRE RATED CONSTRUCTION SHALL NOT EXCEED THE FOLLOWING:
     - 2.3.1. RECESSED LUMINAIRES SHALL NOT OCCUPY MORE THAN 24 SF FOR EVERY 100 SF OF CEILING AREA.
     - 2.3.2. TWO (2) RECESSED DOWNLIGHT LUMINAIRES SHALL BE PERMITTED PER 100 SF OF CEILING AREA.
   - 2.4. FIXTURE PROTECTION - ACOUSTICAL MATERIAL, MIN. TWO (2) LAYERS OF 5/8" GYPSUM BOARD SHALL ENCLOSE THE RECESSED LUMINAIRE. THE ENCLOSURE SHALL HAVE FIVE (5) SIDES, BE RECTANGULAR IN CROSS SECTION. PROVIDE APPROXIMATELY 1" OF CLEARANCE ON ALL SIDES OF THE LUMINAIRE, UNLESS GREATER CLEARANCE IS DICTATED BY THE LUMINAIRE MANUFACTURER. THE ENCLOSURE SHALL BE ASSEMBLED WITH 8d NAILS, SPACES 6" ON CENTER.

## 2 TYPICAL RECESSED DOWNLIGHT IN GYPSUM BOARD CEILING - FIRE PROTECTION - 1HR AND 1-1/2 HR ASSEMBLY RATINGS
NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER - ANDREW J. GRAY - NOT FOR CONSTRUCTION - ELECTRICAL - STATE OF CALIFORNIA
EXPIRES: 12-31-2017
GECE PROJECT #1635
CONSULTANT
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PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

**ELECTRICAL DETAILS**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
A15115
DATE
August 29, 2017
SHEET
E6.1

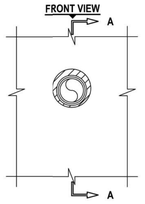
UL/cUL SYSTEM NO. W-L-1410

## METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

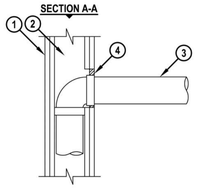
**F-RATING = 1-HR. OR 2-HR.**
**T-RATING = 0-HR.**

WL1410e.072415

FRONT VIEW




SECTION A-A




1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER (SPACED 16" O/C). STEEL STUDS TO BE MINIMUM 3-1/2" WIDE (SPACED 24" O/C).
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 3" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 5 OR HEAVIER).
   B. MAXIMUM 3" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
   C. MAXIMUM 1" NOMINAL DIAMETER COPPER PIPE OR TUBING.
   D. MAXIMUM 1" NOMINAL DIAMETER FLEXIBLE STEEL CONDUIT.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT, OR HILTI CP 618 FIRESTOP PUTTY STICK.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 5".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".
3. [NOT SHOWN] WHEN ANNULAR SPACE IS 0", APPLY MINIMUM 1/2" BEAD HILTI SEALANT OR PUTTY AT POINT OF CONTACT.

| | | | |
|---|---|---|---|
| Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000 | Sheet 1 of 1 | Drawing No. WL 1410e |
| | | Scale 1/8" = 1" | |
| | | Date Jan. 24, 2015 | |

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## Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CP617L

CP 617 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.

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.

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.

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.

CP 617 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.

| | | |
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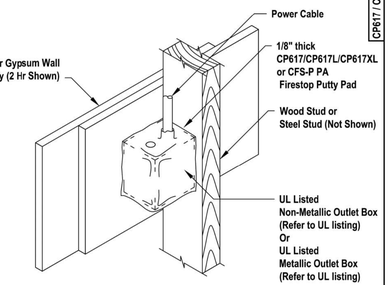
| Hilti Firestop Systems | Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 29, 2013 | Page: 3 of 3 |

## Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CP617L

Classified by Underwriters Laboratories, Inc. to UL 263 and CAN/ULC-S101




CP 617 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 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 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.

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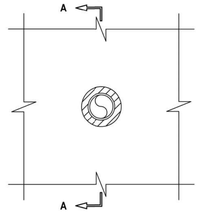
UL SYSTEM NO. W-L-2165

## OPTICAL-FIBER RACEWAY OR ENT THROUGH GYPSUM WALL ASSEMBLY

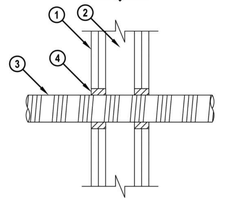
**F-RATING = 1-HR. OR 2-HR.**
**T-RATING = 3/4-HR. OR 2-HR.**
**L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT**
**L-RATING AT 400°F = 2 CFM / SQ FT**

WL2165f.040615

FRONT VIEW




SECTION A-A




1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 2" NOMINAL DIAMETER OPTICAL-FIBER RACEWAY (INNERDUCT).
   B. MAXIMUM 2" NOMINAL DIAMETER ENT.
4. HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH SEALANT FOR A 2-HR. FIRE-RATING.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3-1/2".
2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 7/8".

| | | | |
|---|---|---|---|
| Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000 | Sheet 1 of 1 | Drawing No. WL 2165f |
| | | Scale 3/16" = 1" | |
| | | Date Apr. 06, 2015 | |

*Saving Lives through Innovation and Education*

## Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CP617L

CP 617 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 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 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 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 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. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with plastic cover plates.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 in. by 1-½ 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, FS 657, CP 657 or CFS-BL Firestop Block installed in the cavity between the two boxes

CP 617 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 stee 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 liberglass (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.

| | | |
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| Hilti Firestop Systems | Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 29, 2013 | Page: 2 of 3 |

GENERAL NOTES :
1. CONSULT ARCHITECTURAL SHEETS FOR FIRE & SMOKE PROTECTION PLAN FOR LOCATION OF FIRE RATED CONSTRUCTION.
2. CONSULT ARCHITECTURAL HORIZONTAL ASSEMBLIES AND FIRE PROTECTION ELEVATIONS FOR ADDITIONAL CLARIFICATION.
3. FIRE PENETRATION NOTE: NONCOMBUSTIBLE PENETRATING ITEMS SHALL NOT CONNECT TO COMBUSTIBLE ITEMS BEYOND THE POINT OF FIRESTOPPING. USE OF NONCOMBUSTIBLE PENETRATION DETAIL SHALL BE PERMITTED WHERE THE NONCOMBUSTIBLE MATERIAL IS MAINTAINED ENTIRELY ON ONE SIDE OF THE PENETRATION AND IT CHANGES TO COMBUSTIBLE ON THE OTHER SIDE OF THE PENETRATION. (CEC 714.3.3 AND 714.4.1.3.

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REGISTERED PROFESSIONAL ENGINEER - ANDREW J. GRAY - NOT FOR CONSTRUCTION - 18927 - ELECTRICAL - STATE OF CALIFORNIA

EXPIRES: 12-31-2017
GECE PROJECT #1435

CONSULTANT
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CLIENT
SRI KRISHNA ENTERPRISE
300 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

PROJECT
GATEWAY HOTEL
550 GATEWAY BOULEVARD
SOUTH SAN FRANCISCO, CA

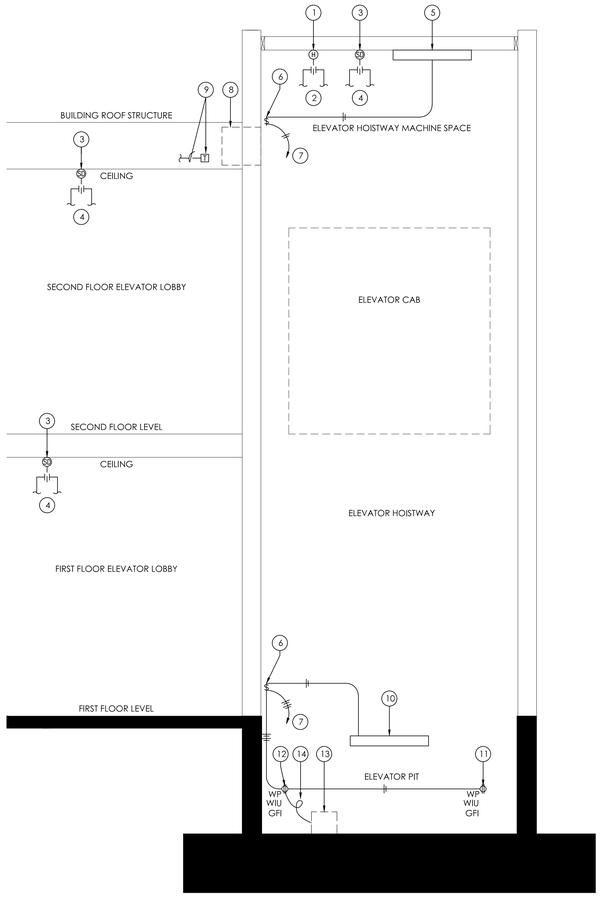
**ELECTRICAL DETAILS**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
A15115

DATE
August 29, 2017

SHEET
E6.2

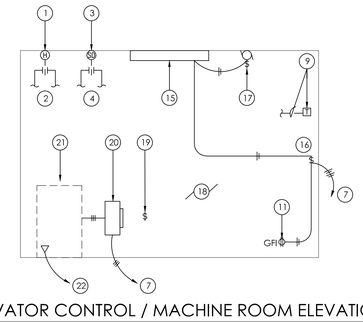



## 1 - ELEVATOR HOISTWAY ELEVATION

NOT TO SCALE

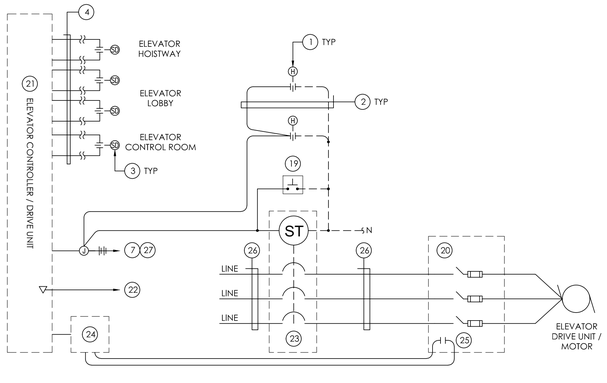
## DETAIL REFERENCE NOTES

1. PROVIDE HEAT DETECTOR WITH AUXILIARY CONTACT WITHIN 18" OF FIRE SPRINKLER HEAD. HEAT DETECTOR SHALL HAVE A FIXED TEMPERATURE PER CODE / MANUFACTURER REQUIREMENTS.
2. EXTEND CONTROL WIRING BETWEEN HEAT DETECTOR AND ELEVATOR SHUNT TRIP CIRCUIT BREAKER FOR AUTOMATIC SHUT DOWN. SEE ELEVATOR SUPERVISORY WIRING DIAGRAM (DETAIL 3, THIS SHEET) AND PROJECT SINGLE LINE DIAGRAM. HEAT DETECTOR SHALL BE MOUNTED NO MORE THAN A MAXIMUM OF 2' FROM THE SPRINKLER HEAD AND SHALL BE CLEARLY LABELED, AT ELEVATOR PIT, THE SWITCH SHALL MOUNT BETWEEN 18'-36" AFF (LADDER SIDE).
3. PROVIDE SMOKE DETECTOR WITH AUXILIARY CONTACT.
4. EXTEND CONTROL WIRING BETWEEN SMOKE DETECTOR AND ELEVATOR CONTROLLER / DRIVE UNIT FOR ELEVATOR RECALL.
5. INSTALL PERMANENT LUMINAIRE AT TOP OF HOISTWAY, SEE GENERAL NOTES (THIS SHEET).
6. FIELD LOCATE LUMINAIRE CONTROL SWITCH PER ELEVATOR MANUFACTURER REQUIREMENTS. SEE GENERAL NOTES (THIS SHEET).
7. LINE VOLTAGE POWER. SEE ELEVATOR SYSTEM ELECTRICAL AND COMMUNICATION CONNECTION SUMMARY (THIS SHEET).
8. FIRE RATED ACCESS HATCH REQUIRED FOR ACCESS TO ELECTRICAL DEVICES AT ELEVATOR HOISTWAY MACHINE SPACE. LOCATE HATCH PER ARCHITECTURAL / ELEVATOR MANUFACTURER REQUIREMENTS. HATCH SHALL BE FURNISHED WITH A LOCKING HATCH DOOR.
9. WHERE PROJECT REQUIRES VALVE CONTROL OF THE FIRE SPRINKLER HEADS SERVING THE ELEVATOR CONTROL / MACHINE ROOM AND HOISTWAY, PROVIDE A FIRE ALARM SYSTEM TAMPER SWITCH WITH SUPERVISED CONNECTION TO THE BUILDING FIRE ALARM CONTROL PANEL.
10. INSTALL PERMANENT LUMINAIRE IN ELEVATOR PIT, SEE GENERAL NOTES (THIS SHEET). LUMINAIRE SHALL BE PROVIDED WITH WIRE GUARD IF MOUNTED BELOW +8' AFF.
11. PROVIDE CONVENIENCE POWER. SEE ELEVATOR SYSTEM ELECTRICAL AND COMMUNICATION CONNECTION SUMMARY (THIS SHEET).
12. RECEPTACLE FOR CONNECTION TO ELEVATOR PIT SUMP PUMP (AS REQUIRED).
13. ELEVATOR PIT SUMP PUMP AND FLOAT SWITCH (BY OTHERS). FURNISHED WHEN REQUIRED BY THE AHJ.
14. SUMP PUMP CONNECTIONS VIA CORD ARE ACCEPTABLE PROVIDED HARD-USAGE, OIL RESISTANT CORD IS INSTALLED, NOT EXCEEDING 6 FOOT IN LENGTH. PROTECT CORD CONNECTIONS FROM PHYSICAL DAMAGE.
15. INSTALL PERMANENT LUMINAIRE IN ELEVATOR CONTROL / MACHINE ROOM. SEE GENERAL NOTES (THIS SHEET). LUMINAIRE SHALL BE PROVIDED WITH WIRE GUARD IF MOUNTED BELOW +8' AFF.
16. FIELD LOCATE CONTROL / MACHINE ROOM LUMINAIRE SWITCH PER GENERAL NOTES. SWITCH SHALL BE MOUNTED WITHIN +18" OF LOCK SIDE OF THE ROOM DOOR.
17. CONTROL / MACHINE ROOM EXHAUST FAN. PROVIDE LINE VOLTAGE CONNECTION TO EXHAUST FAN AND CONDUIT ONLY TO THERMOSTAT INTERFACE AS REQUIRED BY MECHANICAL.
18. MAINTAIN CEC REQUIRED WORKING CLEARANCE IN ELEVATOR CONTROL / MACHINE ROOM.
19. ELEVATOR CIRCUIT BREAKER SHUNT TRIP TEST MOMENTARY PUSH BUTTON. LABEL USE. SEE ELEVATOR SUPERVISORY SYSTEM WIRING DIAGRAM (DETAIL 3, THIS SHEET).
20. HEAVY DUTY, LOCKABLE, FUSED DISCONNECT SWITCH. RATING AS INDICATED ON THE SINGLE LINE DIAGRAM.
21. ELEVATOR CONTROLLER / DRIVE UNIT (BY OTHERS).
22. (1) 3/4" CONDUIT WITH DEDICATED OUTSIDE TELEPHONE LINE(S) TO ELEVATOR CONTROLLER / DRIVE UNIT AS REQUIRED BY THE AHJ.
23. DISTRIBUTION CIRCUIT BREAKER WITH SHUNT TRIP. SEE SINGLE LINE DIAGRAM.
24. BATTERY LOWERING DEVICE (OPTIONAL - AS REQUIRED).
25. FURNISH DISCONNECT SWITCH WITH AUXILIARY RELAY WHEN INTERFACE WITH BATTERY LOWERING DEVICE IS REQUIRED.
26. REFER TO SINGLE LINE DIAGRAM FOR FEEDER SPECIFICATION.
27. DEDICATED BRANCH CIRCUITS TO ELEVATOR CONTROLLER AND ELEVATOR CAR.




## 2 - ELEVATOR CONTROL / MACHINE ROOM ELEVATION

NOT TO SCALE




## 3 - ELEVATOR SUPERVISORY SYSTEM WIRING DIAGRAM

NOT TO SCALE

## CODE COMPLIANCE

THE ELEVATOR SYSTEM SHALL CONFORM TO AND BE INSTALLED IN COMPLIANCE WITH APPLICABLE CODES, STANDARDS, AND ORDINANCES ENFORCED BY THE LOCAL AUTHORITY HAVING JURISDICTION AT TIME OF PERMITTING. UNLESS OTHERWISE NOTED, CODES, STANDARDS, AND ORDINANCES SHALL BE THE LATEST EDITION WITH CALIFORNIA AND LOCAL JURISDICTION AMENDMENTS AS APPLICABLE. WORK IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED TO CONFLICT WITH ANY STATE LAW, CODE OF REGULATION, LOCAL ORDINANCE, ASSEMBLY BILL, ETC.

- CALIFORNIA CODE OF REGULATIONS TITLE 8, CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE
- 2010 CALIFORNIA ELECTRICAL CODE, ARTICLE 620, ELEVATORS, DUMBWAITERS, MOVING WALKS, WHEELCHAIR LIFTS, AND STAIRWAY CHAIR LIFTS
- OCCUPATIONAL SAFEITY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS FOR ELEVATORS AND ESCALATORS.

## GENERAL NOTES

A. ELEVATOR SYSTEM CONNECTION REQUIREMENTS NOT PROJECT SPECIFIC; THIS DETAIL IS BASED ON TYPICAL INSTALLATION AND CODE REQUIREMENTS. VERIFY ALL SYSTEM REQUIREMENTS WITH MANUFACTURER APPROVED SUBMITTAL DOCUMENTATION PRIOR TO INSTALLATION. NOTIFY THE PROJECT ARCHITECT AND / OR ENGINEER OF RECORD OF DISCREPANCIES BETWEEN THIS DETAIL AND MANUFACTURER REQUIREMENTS.

B. REFER TO ARCHITECTURAL PLANS FOR CONSTRUCTION DETAILS OF ELEVATOR SHAFT, ETC.

C. FIRE ALARM SYSTEM CONNECTIONS NOT SHOWN. REFER TO FIRE ALARM RISER DIAGRAM / DEFERRED APPROVAL SPECIFICATIONS.

D. THERE SHALL BE NO FOREIGN WIRING AND/OR PIPING NOT ASSOCIATED WITH THE ELEVATOR SYSTEM PERMITTED WITHIN THE ELEVATOR HOISTWAY AND MACHINE SPACE. ALL ELECTRICAL AND COMMUNICATIONS SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT.

OVERCURRENT PROTECTION, WIRING METHODS, AND PENETRATIONS

A. ELECTRICAL AND COMMUNICATIONS CONDUCTORS WITHIN HOISTWAYS, MACHINE ROOMS, CONTROL ROOMS SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, FLEXIBLE METALLIC CONDUIT SHALL BE ALLOWED PER CEC ARTICLE 620 IN INCREMENTS OF 6 FEET LENGTHS BETWEEN RISERS, LIMIT SWITCHES, INTERLOCKS, OPERATING BUTTONS, OR LIKE.

B. FEEDER AND BRANCH CIRCUITS SHALL BE COPPER AND INSTALLED WITH A SEPARATE COPPER EQUIPMENT-GROUNDING CONDUCTOR.

C. FUSED DISCONNECT SWITCHES AND OR CIRCUIT BREAKERS SERVING THE MAIN ELEVATOR MOTOR FEEDER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.

D. FUSED DISCONNECTS SHALL BE CURRENT LIMITING, CLASS "J" OR EQUIVALENT, WITH TIME DELAY TO COVER THE FULL LOAD ACCELERATING CURRENT OF THE ELEVATOR.

E. REFER TO THE SINGLE LINE DIAGRAM FOR FEEDER CONDUCTOR SPECIFICATION. PER MANUFACTURER REQUIREMENTS, FEEDER CONDUCTORS HAVE BEEN SIZED TO LIMIT VOLTAGE DROP TO 5% MAXIMUM WHEN DELIVERING THE ELEVATOR FULL LOAD ACCELERATION CURRENT.

F. CONDUIT PENETRATIONS THROUGH THE FIRE RATED ASSEMBLY OF EITHER THE CONTROL ROOM AND OR ELEVATOR HOISTAWALL SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED ASSEMBLY AND COMPLY WITH AHJ REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR TYPICAL PENETRATION DETAILS.

MACHINE / CONTROL ROOM

A. ELECTRICAL EQUIPMENT SHALL BE PROPERLY IDENTIFIED. WHERE THERE IS MORE THAN ONE ELEVATOR, LABELING SHALL BE DISTINGUISHED BY A SEPARATE NUMBER DESIGNATION PER ELEVATOR.

B. ONLY ELECTRICAL AND COMMUNICATIONS SYSTEMS ASSOCIATED WITH THE OPERATION OF THE ELEVATOR SHALL BE ALLOWED IN THE MACHINE / CONTROL ROOM.

C. INSTALL A PERMANENT LUMIANIRE AT IN THE MACHINE / CONTROL ROOM AS SHOWN ON THE LIGHTING PLAN. ILLUMINATION AT FLOOR LEVEL SHALL BE AN AVERAGE OF 10 FOOTCANDLES, THE LUMINAIRE CONTROL SWITCH SHALL BE LOCATED WITHIN 18" OF THE LOCK-JAMB SIDE OF THE ACCESS DOOR TO THE SPACE.

HOISTWAYS / MACHINE SPACE

A. ACCESS HATCHES REQUIRED FOR HOISTWAY SMOKE AND HEAT DETECTOR ACCESS SHALL BE SECURED AGAINST UNAUTHORIZED ACCESS.

B. INSTALL A PERMANENT LUMINAIRE AT THE TOP OF THE HOISTWAY (MACHINE SPACE) AS SHOWN ON THE LIGHTING PLAN. FIELD COORDINATE EXACT LUMINAIRE LOCATION IN FIELD WITH ELEVATOR MANUFACTURER. ILLUMINATION AT THE TOP OF THE ELEVATOR CAR WHEN AT THE TOP LANDING SHALL BE NOT LESS THAN AN AVERAGE OF 19 FOOT CANDLES, PROVIDE THE LUMINAIRE WITH A WIRE GUARD TO PREVENT ACCIDENTAL CONTACT AND BREAKAGE OF THE LAMP. THE LUMINAIRE CONTROL SWITCH SHALL BE FIELD LOCATED PER THE ELEVATOR MANUFACTURE.

C. INSTALL A PERMANENT LUMIANIRE AT THE TOP LANDING ENTRANCE TO THE CONTROL SPACE. ILLUMINATION AT FLOOR LEVEL SHALL BE AN AVERAGE OF 19 FOOTCANDLES. THE LUMINAIRE CONTROL SWITCH SHALL BE LOCATED IN CLOSE PROXIMITY TO THE ELEVATOR ENTRANCE.

D. IF SPRINKLERS ARE INSTALLED IN THE HOISTWAY / MACHINE SPACE, PROVIDE A MEANS TO AUTOMATICALLY DISCONNECT THE MAIN LINE POWER SUPPLY OF THE AFFECTED ELEVATOR AND ANY OTHER POWER SUPPLY USED TO MOVE THE ELEVATOR UPON OR PRIOR TO THE APPLICATION OF WATER (UNLESS PROHIBITED BY LOCAL CODE OR AHJ).

E. AUTOMATIC RECOVERY (ELEVATOR RECALL) - AS REQUIRED BY EITHER THE AHJ OR OWNER, PROVIDE A MEANS TO AUTOMATICALLY DISCONNECT POWER TO THE ELEVATOR AND EQUIP WITH AN AUXILIARY CONTACT THAT IS POSITIVELY OPENED WHEN POWER IS REMOVED FROM THE ELEVATOR SYSTEM. PROVIDE ASSOCIATED WIRING BETWEEN THE ELEVATOR MAIN DISCONNECT AND ELEVATOR CONTROLLER.

ELEVATOR PIT

A. PROVISIONS FOR AN ELEVATOR PIT SUMP PUMP SHALL BE REQUIRED PER PER THE AHJ.

B. ELEVATOR PIT STOP SWITCH - COORDINATE THE LOCATION OF AN ENCLOSED TYPE, POSITIVE ACTING STOP SWITCH WITH THE ELEVATOR MANUFACTURER. PER CCR TITLE 8, THE STOP SWITCH SHALL BE LOCATED PER THE FOLLOWING:
- SWITCH SHALL BE ACCESSIBLE FROM THE PIT ACCESS DOOR
- SWITCH SHALL BE LOCATED WITHIN 18" ABOVE OR BELOW THE FLOOR LEVEL AT ACCESS LANDING, NO MORE THAN 78" ABOVE THE PIT FLOOR. CONSULT CODE FOR PIT DEPTH EXCEEDING 8 FEET.
- SWITCH SHALL BE PROPERLY IDENTIFIED AND RED OR ORANGE IN COLOR.

C. INSTALL A PERMANENT LUMINAIRE IN THE ELEVATOR PIT AS SHOWN ON THE LIGHTING PLAN. ILLUMINATION AT THE PIT FLOOR SHALL BE NOT LESS THAN AN AVERAGE OF 5 FOOT CANDLES AT FINISHED FLOOR LEVEL. PROVIDE THE LUMINAIRE WITH A WIRE GUARD TO PREVENT ACCIDENTAL CONTACT AND BREAKAGE OF THE LAMP. THE LUMINAIRE CONTROL SWITCH SHALL BE LOCATED SUCH THAT IS ACCESSIBLE FROM THE PIT LADDER.

ELEVATOR SYSTEM ELECTRICAL AND COMMUNICATION CONNECTION SUMMARY

| BRANCH CIRCUIT | LOAD | | | | | DESCRIPTION | NOTES |
|---|---|---|---|---|---|---|---|
| | VOLTS | PHASE | HP | FLA (CIRCUIT BREAKER RATING) | KW | | |
| PANEL "P6" | 208 | 3 | 40 | 114 | 41.1 | ELEVATOR MOTOR #1 | 40HP ELEVATOR MOTOR RATING IS AN ESTIMATE ONLY. VERIFY WITH MANUFACTURER. REFER TO SINGLE LINE DIAGRAM. |
| PANEL "P6" | 208 | 3 | 40 | 114 | 41.1 | ELEVATOR CONTROLLER | 40HP ELEVATOR MOTOR RATING IS AN ESTIMATE ONLY. VERIFY WITH MANUFACTURER. REFER TO SINGLE LINE DIAGRAM. CIRCUIT BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. |
| P6-21 | 120 | 1 | N/A | (15) | 0.5 | ELEVATOR CAR LIGHTS, CAR TOP RECEPTACLE, AUXILIARY LIGHTING POWER SOURCE, AND VENTILLATION | CIRCUIT BREAKER SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. |
| P6-23 | 120 | 1 | N/A | (20) | 0.5 | MACHINE SPACE LIGHT / RECEPTACLE | GFCI CIRCUIT BREAKER REQUIRED. |
| P6-25 | 120 | 1 | N/A | (20) | 0.5 | MACHINE / CONTROL ROOM LIGHT / RECEPTACLE | GFCI CIRCUIT BREAKER REQUIRED. |
| P6-27 | 120 | 1 | N/A | (20) | 0.7 | MACHINE / CONTROL ROOM EXHAUST FAN | PROVIDE AS REQUIRED BY MECHANICAL ENGINEER. |
| P6-29 | 120 | 1 | N/A | (20) | 0.5 | ELEVATOR PIT LIGHT / RECEPTACLE | GFCI CIRCUIT BREAKER REQUIRED. |
| P6-31 | 120 | 1 | N/A | (20) | 1.2 | ELEVATOR SUMP | PROVIDE AS REQUIRED BY AHJ. GFCI CIRCUIT BREAKER REQUIRED. |
| N/A | N/A | N/A | N/A | N/A | N/A | DEDICATED OUTSIDE TELEPHONE LINE | PROVIDE PER MANUFACTURER REQUIREMENTS. |
| P6-33 | 120 | 1 | N/A | (15) | 0.5 | BUILDING INTER-COMMUNICATION SYSTEM POWER SUPPLY | OPTIONAL. PROVIDE AS REQUIRED PER OWNER. |
| N/A | N/A | | N/A | N/A | N/A | TWO WAY COMMUNICATION | PER MANUFACTURER REQUIREMENTS FOR ELEVATOR TRAVEL GREATER THAN 60 FEET. |

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**ELECTRICAL DETAILS**

| # | REVISION | DATE |
|---|---|---|
| | | |

PROJECT
**A15115**
DATE
August 29, 2017
SHEET
E6.3