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SYMBOLS & **GENERAL NOTES**

SHEET NUMBER

ABBREVIATIONS GENERAL ELECTRICAL NOTES ELECTRICAL SYMBOL LIST MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MOTOR CIRCUIT PROTECTOR SCOPE: THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL .) DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED MECHANICAL
MANUFACTURER
MOTOR—GENERATOR
MANHOLE
MINIMUM
MISCELLANEOUS
MOUNTED
MOUNTING
MOTOR REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS NÓICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES, SYSTEMS AND EQUIPMENT. IND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC. ANNOTATIONS & CALLOUTS PERMITS AND CHARGES:
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY) ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL 1) ELECTRICAL KEYNOTE: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET. .) Existing condition shown is from available record drawings and visual field survey and is INDICATES LIGHTING FIXTURE TAG NUMBER HOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE. PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, CALIFORNIA - INDICATES WATTAGE OF LIGHT FIXTURE ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND MANUFACTURERS) all work shown is new unless specifically indicated as existing (x). All electrical equipment (FOUND ON LIGHT FIXTURE SCHEDULE) MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES. INDICATES MECHANICAL/PLUMBING EQUIPMENT OR DEVICE (FOUND ION AUTOMATIC TELEPHONE SYSTEMS:
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE
TELEPHONE SYSTEM PER THE SERVING TELEPHONE COMPANY REQUIREMENTS. VERIFYING EXISTING CONDITIONS:
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE
BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY
THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE
MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST
FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS ON ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT OR ON MECHANICAL PLANS. C ADDRESS GROUNDING AND BONDING:
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY
OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN
GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED THROUGH IN ALL CONDUITS. 1 INDICATES DETAIL NUMBER POLYVINYL CHLORIDE E3.0 INDICATES SHEET NUMBER TO FIND DETAIL REMOVED COORDINATION:
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL BREAK LINE INDICATES WORK EXTENDED BEYOND LIMITS SHOWN ON DRAWING. GALVANIZED STEEL CONDUIT INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT.
TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS,
MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS SECONDARY
SPECIFICATION
STANDARD
JNSWITCHED
FELEPHONE
TRANSFORMER CONDUIT & WIRING SYMBOLS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, SERVICE CONTINUITY:
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY
POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE
REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME -A5-1-3-5.7INDICATES A HOMERUN TO PANEL A5, CKTS 1-3-5 WITH SHARED NEC ARTICLE 370 1.) PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE TYPICAL
UNLESS OTHERWISE NOTED
UNDERGROUND NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL. CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS AS BUILT:
PROVIDE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH CIRCUIT HOMERUNS IN COOPERATION CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. FINAL RETENTION OF ALL MONIES. 3/4°C - 2 #12 & 1 #12 CU GND .) PROVIDE A CODE APPROVED DISCONNECT SWITCH OR CIRCUIT BREAKER WITHIN SIGHT OF EVERY MOTOR MARK PROJECT RECORD DOCUMENTS DAILY TO INDICATE ALL CHANGES MADE IN THE FIELD. A.) IN ADDITION TO GENERAL REQUIREMENTS OF PROJECT RECORD DRAWINGS, INDICATE ON DRAWINGS, CHANGES OF EQUIPMENT LOCATIONS AND RATINGS, TRIP SIZES, AND SETTINGS ON CIRCUIT BREAKERS, ALTERATIONS IN RACEWAY RUNS AND SIZES, CHANGES IN WIRE SIZES, CIRCUIT DESIGNATIONS, AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND U.L. STANDARD 486B TORQUING RECOMMENDATIONS INSTALLATION DETAILS, ONE-LINE DIAGRAMS, CONTROL DIAGRAMS AND SCHEDULES. VOICE/DATA SYSTEM 4.) FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES, AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS, REFER TO MECHANICAL PLANS AND DETERMINE EXACT TIGHTENING TORQUE FOR SCREWS (a) TORQUE, POUND - INCHES USE GREEN TO INDICATE DELETIONS AND RED TO INDICATE ADDITIONS. A.) USE THE SAME SYMBOLS AND FOLLOW THE SAME DRAFTING PROCEDURES USED ON THE CONTRACT HEXAGONAL HEAD/EXTERNAL OCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR. 5.) DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL OCATE UNDERGROUND CONDUIT STUBBED-OUT FOR FUTURE USE, UNDERGROUND FEEDER CONDUITS, AND SLOT WIDTH (IN.) | SLOT LENGTH (IN.) SPLIT-BOLT EEDER PULL BOX LOCATIONS USING BUILDING LINES BY INDICATING ON THE PROJECT RECORD DRAWINGS #*** 3/4°C - 2 #10 & 1 #10 GND TO 3/64 OVER 3/64 TO 1/4 OVER 1/4 RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN THE SLAB THE COMPLETION OF UNDERGROUND CONDUIT INSTALLATION, PROVIDE UNDERGROUND CONDUIT RECORD PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. _____#10 3/4"C - 3 #10 & 1 #10 GND DOCUMENTS TO OWNER'S REPRESENTATIVE. 6.) SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GUAGE OF CONDUCTORS THEREIN, TWO COPIES, IN BINDER FORM, OF ALL TEST RESULTS AS REQUIRED BY THESE DOCUMENTS. #10 3/4°C - 4 #10 & 1 #10 GND EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP. TWO COPIES OF LOCAL AND/OR STATE CODE ENFORCING AUTHORITIES FINAL INSPECTION CERTIFICATES $\frac{11111^{#10}}{}$ 3/4°C - 5 #10 & 1 #10 GND .) ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, FIRE ALARM SYSTEM RECORDS AND TESTING REPORTS AS OUTLINED IN NFPA 72, CHAPTER 10. SÉRVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS 150 275 $\frac{11111 + 10}{1111 + 10}$ 3/4°C - 6 #10 & 1 #10 GND TWO COPIES, IN BINDER FORM, OF ELECTRICAL EQUIPMENT CUT SHEETS, MANUFACTURER'S INSTALLATION AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN ALONG SIDE OR INSTRUCTIONS, WARRANTY CERTIFICATES, AND PRODUCT LITERATURE FOR ALL PRODUCTS UTILIZED ON ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT -3 CONDUIT STUB, CAP AND IDENTIFY SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE FLEXIBLE CONDUIT CONNECTION. SEE PLAN. GUARANTEE:
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR. VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY 500 SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED LIGHTING FIXTURE SYMBOLS 50 650 325 SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK, ALL EQUIPMENT
ACCEPTABLE TESTING LABORATORY, SHOP DRAWINGS MUST BE PPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES. 2'X4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.
SUBMIT SIX SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, (RECESSED, SURFACE MOUNTED) .) ALL WALL SWITCHES AND RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 48" PER A.D.A. 50 650 REQUIREMENTS UNLESS OTHERWISE NOTED. a & b, ETC. INDICATES SWITCH IDENTIFICATION ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND NUMBER INDICATES LIGHT FIXTURE BRANCH CIRCUIT VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX 2'X2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX 1000 NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED RECESSED, SURFACE MOUNTED) CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE WITH 4S OUTLET BOX CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING, ALL SUBSTITUTIONS SHALL BE REVIEWED BY THE ENGINEER IN WRITING, SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL ECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES (RECESSED, SURFACE MOUNTED) 1100 OR LESS AND COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15" MEASURED FLUORESCENT LIGHT FIXTURE WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE PACK WITH 4S OUTLET BOX. (RECESSED, SURFACE MOUNTED) SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS/HER OWN WORK, THE OWNER, ENGINEER OF RECORD 1100 FINISHED FLOOR OR WORKING PLATFORM. OR THE WORK OF OTHER CONTRACTORS. SURFACE MOUNTED FLUORESCENT STRIP LIGHTING FIXTURE WITH 4S BOX 9.) CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE 1100 CEILING SURFACE MOUNTED LIGHTING FIXTURE WITH OUTLET BOX ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.). 1100 RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING ---ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP. CEILING RECESSED DOWNLIGHT FIXTURE THIS TABLE GIVES RECOMMENDED CONNECTOR INSTALLING TORQUES FOR COPPER AND ALUMINUM CONDUCTORS. THEY ARE FOR GUIDANCE ONLY WHERE NO TIGHTENING INFORMATION IS AVAILABLE AND CEILING RECESSED WALL WASH DOWNLIGHT FIXTURE .) SURFACE MOUNTED RACEWAY COMPLETENESS: CONTRACTOR SHALL PROVIDE ALL RACEWAY, FITTINGS, SUPPORTS, BOXES, DEVICES, PLATES ETC. NECESSARY FOR A COMPLETE AND WORKABLE SURFACE MOUNTED ELECTRICAL RACEWAY SYSTEM. PRIOR TO INSTALLATION, CONTRACTOR SHALL PERFORM A PRE-INSTALLATION SURFACE MOUNTED RACEWAY JOB WALK WITH OWNER & ARCHITECT FOR CONTRACTOR TO FIELD VERIFY CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE SHOULD NOT BE USED TO REPLACE MANUFACTURER'S INSTRUCTIONS WHICH SHOULD ALWAYS BE TRACK LIGHTING (TRIANGLES INDICATE # OF HEADS) MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE (a) CLAMPING SCREWS WITH MULTIPLE TIGHTENING MEANS; FOR EXAMPLE FOR A SLOTTED HEXAGONAL CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL LIGHT FIXTURE, WALL MOUNTED WITH OUTLET BOX COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX, OR AC90 SHALL BE PERMITTED. (b) FOR VALUES OF SLOT WIDTH OR LENGTH OTHER THAN THOSE SPECIFIED, SELECT THE LARGEST TORQUE VALUE ASSOCIATED WITH CONDUCTOR SIZE. EXIT SIGN WITH OUTLET BOX ELECTRICAL SYSTEM ANCHORAGE:
ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR SEISMICALLY ANCHORED BY THE CONTRACTOR TO RESIST SEISMIC FORCES ACTING IN ANY DIRECTION. PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR SWITCHES AND RECEPTACLES: PROVIDE 20 AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL -ARROW DENOTES DIRECTIONAL CHEVRON CEC ART. 310 CONDUCTOR DERATING SWITCHES SHALL BE RATED 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS, DEVICES SHALL BE DECORA TYPE WITH COLOR SELECTION BY SUPPORT OF ELECTRICAL RACEWAYS, CONDUITS, CABLE TRAYS, ELECTRICAL EQUIPMENT, ETC. IN ACCORDANCE EXIT SIGN, END MOUNT ON WALL, WITH OUTLET BOX. WITH THE UNIFORM BUILDING CODE WITH CALIFORNIA AMENDMENTS. SHADING DENOTES FACE OF EXIT SIGN. NEC #310.15 (B)(2)(a) ADJUSTMENT FACTORS CONTRACTOR/OWNERS REPRESENTATIVE. THE SEISMIC BRACING AND ANCHORAGE SHALL BE PROVIDED PER THE LATEST EDITION OF THE SMACNA SEISMIC RESTRAINT GUIDELINES. EMERGENCY LIGHTING UNIT WITH OUTLET BOX. (a) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THI FEEDERS AND BRANCH CIRCUITS IDENTIFICATION:
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT
DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER. ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE FOLLOWING TABLE LL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA EXIT-EMERGENCY LIGHTING UNIT COMBO WITH OUTLET BOX. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT PERCENT OF VALUES IN TABLES AS GUIDELINES. WHERE BRACING DETAILS ARE NOT SHOWN ON THE PLANS, THE FIELD INSTALLATIONS SHALL BE THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY SUBJECT TO THE APPROVAL OF THE ENGINEERS, AND THE ARCHITECT. A COPY OF LATEST SMACNA GUIDELINES SHALL BE KEPT AT THE JOB SITE AT ALL TIMES. PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS, IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET. PENDANT MOUNTED LIGHT FIXTURE WITH OUTLET BOX. TIRE ALARM SYSTEM BY CONTRACTOR CONTRACTOR SYSTEM FOR THE PROJECT AREA TO INCLUDE: CONDUCTORS:
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. CONDUCTORS SHEET DESCRIPTION SHEET INDEX L) SMOKE DETECTORS IN ALL REQUIRED AREAS MUST BE MANUFACTURED WITHIN 6 MONTHS. PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL E1.0 GENERAL NOTES & SYMBOLS B.) HEAT DETECTORS IN ALL REQUIRED AREAS DUCT DETECTORS IN ALL REQUIRED SPACES WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN WIRING. USE CONDUCTORS WITH THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED. E1.1 GENERAL ELECTRICAL SPECIFICATIONS).) STROBES/ALARMS IN ALL REQUIRED AREAS 24 INCHES (610 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE.) PULL STATIONS AT ALL LEGAL FIRE EXITS - WHERE REQUIRED PANELBOARDS:
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER E1.2 | TITLE 24) TAMPER AND FLOW SWITCHES AT FIRE SPRINKLER RISERS AND BACKFLOW PREVENTERS EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY .) BRANCH CIRCUIT AND CONTROL WIRING TO FIRE SPRINKLER ALARM BELLS BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. 1.3 | TITLE 24 H.) SMOKE/FIRE DAMPER/HVAC UNIT SHUT-DOWN BRANCH CIRCUIT WIRING, CONTROL WIRING, CONTROL TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS 1.4 PARTIAL SITE DEMO PLAN STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 392.11 CONTRACTOR SHALL SUBMIT FOR THE OWNER'S SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE -ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY E2.0 | SITE ELECTRICAL PLAN FIRE ALARM SYMBOLS ALARM DRAWINGS FOR THE PROJECT SPACE. E2.1 | PARTIAL SITE RELO POWER PLAN (SOUTH) EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A . ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHAL APPROVED. STRUCTURAL SUPPORT:
EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE E2.2 PARTIAL SITE ELECTRICAL PLAN (NORTH) BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (8) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER. 5. CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS EXCEPTION NO.4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT SMOKE DETECTOR W/ BASE 2.3 RELO SIGNAL PLAN & RELO POWER PLAN CONTRACTOR SHALL PROVIDE SIX (6) SETS OF FIRE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES IN 2.4 PARTIAL FIRE ALARM PLAN, RELO FIRE ALARM PLAN ADDITION TO SIX (6) SETS OF A SYSTEM OPERATIONAL MANUAL TAILORED FOR THE PROJECT SPACE. 2.5 | SITE PHOTOMETRIC PLAN CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION DEMOLITION:
NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE FIRE ALARM RISER DIAGRAM, FIRE ALARM EQUIPMENT SCHEDULE WALL MOUNT STROBE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS TO POWER PANELS, CONDUIT AND WIRE AND 3.1 FIRE ALARM VOLTAGE DROP & BATTERY CALCULATIONS 1. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY THE ONNECTIONS REQUIRED TO PROVIDE AN OPERATIONAL FIRE ALARM SYSTEM. FIRE ALARM WIRING DIAGRAM, ALARM DETAILS, EQUIP. MOUNTING SUBMITTAL DOCUMENTS FOR DEFERRED ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP. 4.0 SINGLE LINE DIAGRAM DUCT DETECTOR E5.0 DETAILS WITH DESIGN OF THE BUILDING. THE DEFERRED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. ALL DEVICES, CIRCUIT CONDUCTORS, FEEDERS, ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER E6.0 | ELECTRICAL DETAILS UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS "SPARE". COORDINATE ALL OUTAGES CEILING MOUNT VISIBLE EXECUTION:
CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE APPLICABLE CODES AND REGULATIONS PART 12-CALIFORNIA REFERENCE STANDARDS CODE 2016 EDITION HEAT DETECTOR W/ BASE CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THE WORK PARTIAL LIST OF NFPA STANDARDS: END-OF-LINE RESISTOR 1.) EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUAL

EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THENUMBER OF CONDUCTORS DOES NOT EXCEED FOUR. CEC WIRE FILL TABLE 370-16 JUNCTION BOX DIMENSION. INCHES TRADE SIZE OR TYPE NO. 14 NO. 12 NO. 10 NO. 8 NO. 6 4 x1-1/4 ROUND OR OCTAGONAL 12.5 6 5 5 4 4 X1-1/2 ROUND OR OCTAGONAL 15.5 7 6 6 5 4 X2-1/8 ROUND OR OCTAGONAL 4 x1-1/4 SQUARE 4 X1-1/2 SQUARE 4 X2-1/8 SQUARE 4-11/16 x1-1/4 SQUARE 4-11/16 X1-1/2 SQUARE 4-11/16 X2-1/8 SQUARE 42.0 21 18 16 14 3 x2 x1-1/2 DEVICE 3 x2 x2 DEVICE 3 x2 x2-1/4 DEVICE 3 x2 x2-1/2 DEVICE
 14.0
 7
 6
 5
 4
 2

 18.0
 9
 8
 7
 6
 3

 10.3
 5
 4
 4
 3
 2

 13.0
 6
 5
 5
 4
 2

 14.5
 7
 6
 5
 4
 2
 3 x2 x2-3/4 DEVICE 3 x2 x3-1/2 DEVICE 4 X2-1/8 X1-1/2 DEVICE

14.0 7

21.0 10

24.0 12

6

9

13.5

18.0

8 5

6 5

10 9

7

7

9 8

8

8

4

7

4

6

6

8

AMP FRAME/AMP FUSE AVAILABLE FAULT CURRENT

BOVE FINISHED GRADE

FIRE ALARM CONTROL PANEL FULL LOAD AMPS

IORSEPOWER
IGH INTENSITY DISCHARGE

MAGNETIC

ISOLATED GROUND

KILOVOLT—AMPERE

250 kcmil

1250

CONTRACTOR FAULT INTERRUPTING

TIGHT FLEXIBLE METAL CONDUIT

NO. 10 AND LARGER (b)

-

CURRENT-CARRYING

CONDUCTORS
4 THROUGH 6

7 THROUGH 0 THROUGH

THROUGH 1 THROUGH 40

41 AND ABOVE

4 X2-1/8 X1-7/8 DEVICE

4 X2-1/8 X2-1/8 DEVICE 3-3/4 x2 x2-1/2 MASONRY

BOX / GANG 3-3/4 x2 x3-1/2 MASONRY

BOX / GANG
FS - MINIMUM INTERNAL DEPTH

1-3/4 SINGLE COVER / GANG FD - MINIMUM INTERNAL DEPTH

2-3/8 SINGLE COVER / GANG FS - MINIMUM INTERNAL DEPTH

2-3/8 MULTIPLE COVER / GANG

600

a) Existing electrical service has been investigated and found to have adequate capacity for the proposed load addition as shown on these plans. OR

b) Source of power has been investigated and is adequate for the additional load.

c) Site inspector is to witness and verify grounding tests.

	CALIFORNIA CODE OF REGULATIONS (C.C.R.). TITLE 24 (APPLIES AFTER JANU	JARY 1, 2017):
ALITY.	PART 1-CALIFORNIA BUILDINGS STANDARD ADMINISTRATIVE CODE	2016 EDITION
	PART 2-CALIFORNIA BUILDING CODE	2016 EDITION
	PART 3-CALIFORNIA ELECTRICAL CODE	2016 EDITION
	PART 4-CALIFORNIA MECHANICAL CODE	2016 EDITION
	PART 5-CALIFORNIA PLUMBING CODE	2016 EDITION
	PART 6-CALIFORNIA ENERGY CODE	2016 EDITION
	PART 7-NO LONGER PUBLISHED	
	PART 8-CALIFORNIA HISTORICAL BUILDING CODE	2016 EDITION
	PART 9-CALIFORNIA FIRE CODE	2016 EDITION
	PART 10-CALIFORNIA EXISTING BUILDING CODE	2016 EDITION
	PART 11-CALIFORNIA GREEN BUILDING STANDARDS CODE	2016 EDITION

NFPA 13-AUTOMATIC SPRINKLER SYSTEM, 2016 EDITION HORN WITH WEATHERPROOF ENCLOSURE NFPA 14-STANDPIPES SYSTEMS. 2016 EDITION NFPA 17A-WET CHEMICAL SYSTEMS, 2017 EDITION NFPA 20-STANDARD FOR THE INSTALLATION OF STATIONARY 2016 EDITION M MINI−HORN PUMPS FOR FIRE PROTECTION 2016 EDITION NFPA 24-PRIVATE FIRE MAINS, NFPA 70-NATIONAL ELECTRICAL CODE 2017 EDITION 2016 EDITION NFPA 72-NAT. FIRE ALARM & SIGNALING CODE (CALIFORNIA AMENDED) NFPA 72-NATIONAL FIRE ALARM & SIGNALING CODE 2016 EDITION NFPA 96-STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS

SINGLE RECEPTACLE, WALL MOUNTED 9 +18" AFF, NEMA 5-20R UON DUPLEX RECEPTACLE, WALL MOUNTED • +18" AFF, NEMA 5-20R UON (GFI DENOTES GROUND FAULT INTERRUPTER RECEPTACLE) DUPLEX RECEPTACLE, WALL MOUNTED HORIZONTALLY * +18" AFF, NEMA DUPLEX TVSS RECEPTACLE, WALL MOUNTED • +18" AFF, NEMA 5-20R UON DUPLEX RECEPTACLE, WALL MOUNTED • +18" AFF, NEMA 5-20R UON TOP RECEPTACLE SWITCHED CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R UON DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED • +18" AFF, NEMA 5-20R UON SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ +18", UON JUNCTION BOX (ACCESSIBLE CEILING SPACE MTD.) SIZE PER TABLE AND JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370 RECESSED FLUSH FLOORBOX, FLOOR MOUNTED. SEE POWER AND SIGNAL PLANS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE COVER INISH/COLOR WITH ARCHITECT PRIOR TO ORDERING. THERMOSTAT OUTLET BOX. 4S BOX WITH SINGLE GANG RING @ +42" AFF TELE/DATA OUTLET BOX IN WALL @ +18", STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, 5S BOX WITH 1-GANG P-RING, UON TELE/DATA OUTLET BOX, MOUNTED IN WALL +6" ABOVE COUNTER OR SPLASH, STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, 5S BOX WITH FLUSH CEILING MOUNTED TELE/DATA OUTLET, 5S BOX WITH SINGLE GANG PLASTER TELEVISION OUTLET IN WALL @ +84", 5S BOX WITH 1-GANG RING, UON SINGLE-POLE SWITCH MOUNTED @ +42" AFF SINGLE POLE SWITCH **D* +42*, UON a INDICATES LIGHT FIXTURE TO BE SWITCHED TWO-POLE SWITCH MOUNTED @ +42" AFF 3-WAY SWITCH MOUNTED @ +42" AFF 4-WAY SWITCH MOUNTED @ +42" AFF KEYED SWITCH MOUNTED @ +42" AFF HORSEPOWER RATED SWITCH MOUNTED @ +42" AFF DIMMER SWITCH MOUNTED © +42" AFF, 0-10V DIMMER COMPATIBLE WITH LED LIGHT FIXTURE, UON. OCCUPANCY SENSOR WALL SWITCH PER PLANS, MOUNTED @ +42" AFF SINGLE-POLE SWITCH (WITH PILOT LIGHT) 9 +42" AFF TIME SWITCH, FLUSH MOUNTED • +42" AFF. WATTSTOPPER, TS-400-W CEILING MOUNTED OCCUPANCY SENSOR COMPLETE WITH OUTLET BOX, PER PLANS. CHELSEA DIGITAL WALL SWITCH MOUNTED 9 +42" AFF PUSH BUTTON WALL SWITCH MOUNTED @ +42" AFF CIRCUIT BREAKERS AND FUSES FUSED SWITCH, 100 AMP SWITCH RATING WITH 60 AMP FUSES, 3-POLE 100A UTILITY METER (OR AS NOTED) DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSES, 3-POLE WITH OVERCURRENT PROTECTION UON COMBINATION STARTER / DISCONNECT SWITCH SIZED PER PLAN EXHAUST FAN/MOTOR, SIZE AS INDICATED ON PLANS FACE FIRE ALARM CONTROL PANEL WALL MOUNT HORN/STROBE CEILING MOUNT AUDIBLE/VISIBLE

WALL MOUNT SPEAKER/STROBE

OUTDOOR WALL MOUNT SPEAKER

PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL @ +6'-6" TO TOP OF TRIM - Panelboard per plans, surface mounted on Wall 😉 +6'-6" to top of trim

IBI Group is forbidden. NO. DATE APPRD.

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PRIME CONSULTANT

AGENCY INFORMATION:

AGENCY TRACKING NO. 63321-241 FILE NO. 15-6

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 03-118380



BESSIE OWENS

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SHEET TITLE