

ABBREVIATIONS table listing electrical symbols and their corresponding abbreviations and descriptions.

U.L. STANDARD 488B TORQUING RECOMMENDATIONS

Table showing torquing torque for screws (a) torque, pound-inches and (b) torque, foot-pounds for various screw sizes and lengths.

THESE TABLES RECOMMENDED CONDUCTOR INSTALLATION TORQUES FOR COPPER AND ALUMINUM CONDUCTORS. THEY ARE FOR GUIDANCE ONLY... (a) CLAMPING TORQUE WITH MULTIPLE TORQUING MEANS... (b) FOR VALUES OF SLOT WIDTH OR LENGTH OTHER THAN THOSE SPECIFIED...

WHERE SINGLE CONDUCTOR OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT MAINTAINING BRACING AND ARE NOT INSTALLED IN RIGIDWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE.

TABLE 1: CEC WIRE FILL TABLE 870-18. Table showing maximum number of conductors for various cable tray dimensions and fill types.

GENERAL ELECTRICAL NOTES: 1. THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIALS REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED...

REGULATIONS AND CODES: 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION...

VERIFYING EXISTING CONDITIONS: BEFORE SUBMITTING BID, CONTRACTOR SHALL THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING SITE...

COOPERATION: CONTRACTOR SHALL COOPERATE WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONDITIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT...

MARK PROJECT RECORD DRAWINGS TO INDICATE ALL CHANGES MADE IN THE FIELD. IN ADDITION TO GENERAL REQUIREMENTS OF PROJECT RECORD DRAWINGS, CONTRACTOR SHALL SUBMIT RECORD DRAWINGS, CHANGES OF EQUIPMENT LOCATIONS AND RATINGS, TRIP SETS, AND SETTINGS ON CIRCUIT BREAKERS, ALTERNATORS IN RACEWAY RAYS AND SIZES, CHANGE OF CIRCUIT DESIGNATIONS, INSTALLATION DETAILS, ONE-LINE DIAGRAMS, CONTROL DIAGRAMS AND SCHEDULES...

LOCATE UNDERGROUND CONDUIT SUBMITTED-OUT FOR FUTURE USE, UNDERGROUND FEEDER CONDUITS, AND FEEDER TRAYS AND RACEWAYS USING BULLDOGS BY INDICATING ON THE PROJECT RECORD DRAWINGS. AT THE COMPLETION OF UNDERGROUND CONDUIT INSTALLATION, PROVIDE UNDERGROUND CONDUIT RECORD DOCUMENTS TO OWNER'S REPRESENTATIVE...

CONDUIT: ALL ELECTRICAL CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ANY OTHER APPLICABLE CODES...

SWITCHES AND RECEPTACLES: PROVIDE 20 AMP NEMA WATTS SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL 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 CONTRACTOR/OWNER REPRESENTATIVE...

PANELBOARDS: DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE AN EVENLY BALANCED LOAD ON ALL PHASES...

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 TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY.

EXCEPTION NO. 2: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS EXTENDING OR LEAVING AN OUTDOOR TRUSS IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.0m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT EXCEED FOUR.

APPLICABLE CODES AND REGULATIONS

Table listing applicable codes and regulations, including California Code of Regulations (C.C.R.), Title 24, and various California building codes.

Table listing applicable codes and regulations, including Part 12-California Reference Standards Code and National Fire Protection Association (NFPA) codes.

ELECTRICAL SYMBOL LIST

ANNOTATIONS & CALLOUTS

- 1. ELECTRICAL KEYNOTE DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET. 2. INDICATES LIGHTING FIXTURE TAG NUMBER. 3. INDICATES WATAGE OF LIGHT FIXTURE (FOUND ON MECHANICAL/PLUMBING SCHEDULE).

CONDUIT & WIRING SYMBOLS

- 1. PROVIDE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES. 2. DETERMINE EXACT LOCATION OF CONCEALED FEEDERS AND BRANCH CIRCUIT HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

LIGHTING FIXTURE SYMBOLS

- 1. 2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED). 2. 2'x2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED).

CIRCUIT BREAKERS AND FUSES

- 1. 225A 30A 3P MOULDED CASE CIRCUIT BREAKER 225 AMP FRAME, 150 AMP TRIP RATING, 3-POLE. 2. 100A 60A 3P FUSED SWITCH, 100 AMP SWITCH RATING WITH 60 AMP FUSES, 3-POLE.

FIRE ALARM SYMBOLS

- 1. FIRE ALARM CONTROL PANEL. 2. SMOKE DETECTOR W/ BASE. 3. PULL STATION. 4. WALL MOUNT STROBE. 5. WALL MOUNT HORN/STROBE. 6. DETECTOR. 7. CEILING MOUNT HORN/STROBE. 8. CEILING MOUNT STROBE. 9. DETECTOR W/ BASE. 10. END-OF-LINE RESISTOR. 11. HORN WITH WEATHERPROOF ENCLOSURE. 12. MINI-HORN.

POWER

- 1. PANELBOARD PER PLANS. FLUSH MOUNTED ON WALL @ +5'-6" TO TOP OF TRIM. 2. SINGLE RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON. 3. DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON.

VOICE/DATA SYSTEM

- 1. TELEPHONE OUTLET BOX IN WALL @ +18", STUD #1 CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, SS BOX WITH 1-GANG P-RING, UON. 2. FLUSH CEILING MOUNTED TELEPHONE OUTLET, SS BOX WITH SINGLE GANG PLASTER RING, UON.

SWITCHES

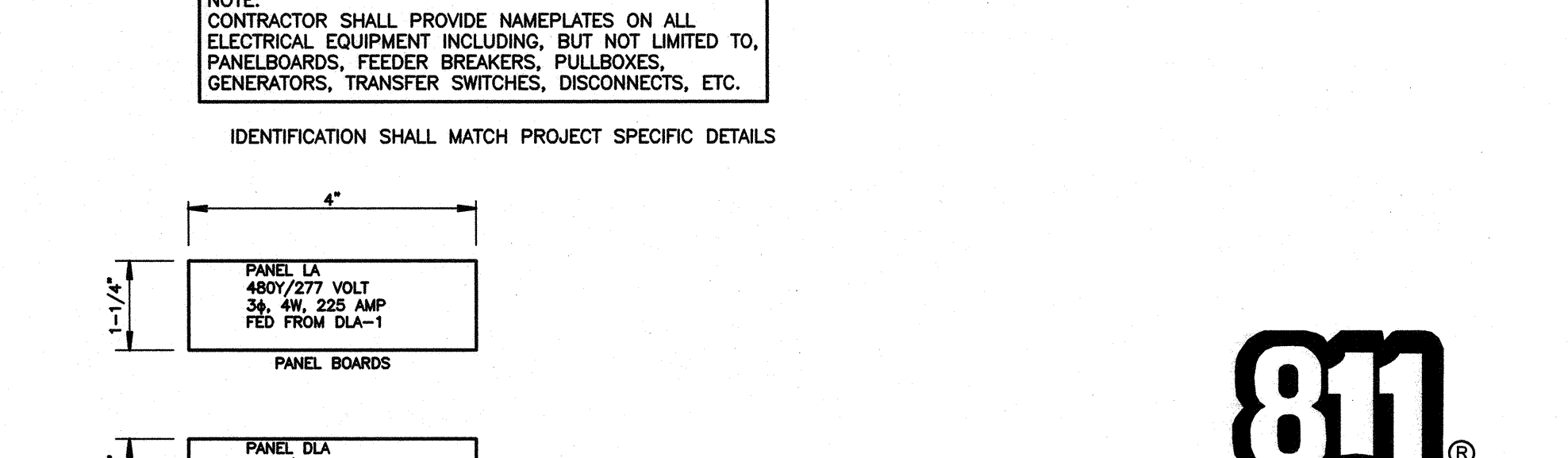
- 1. SINGLE-POLE SWITCH MOUNTED @ +42" AFF. 2. SINGLE-POLE SWITCH @ +42", UON. 3. TWO-POLE SWITCH MOUNTED @ +42" AFF.

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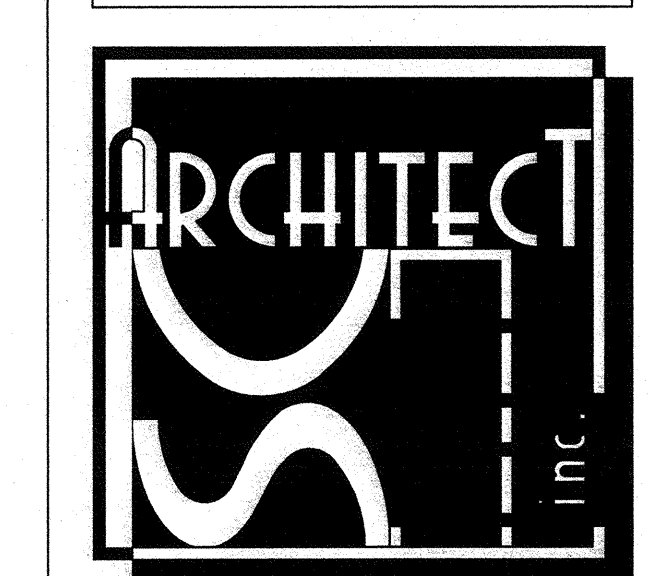
TYPICAL NAMEPLATE DETAILS. SCALE: NOT TO SCALE. NOTE: CONTRACTOR SHALL PROVIDE NAMEPLATES ON ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, PANELBOARDS, FEEDER BREAKERS, PULLBOARDS, GENERATORS, TRANSFER SWITCHES, DISCONNECTS, ETC.

MARK DATE REVISIONS table with empty cells for recording changes.

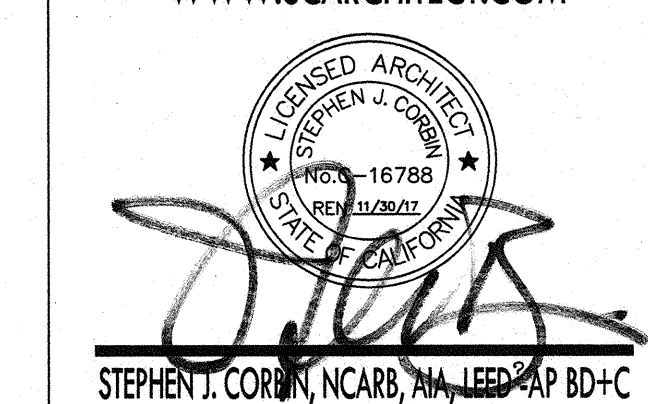
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

SITE IMPROVEMENTS FOR MODULAR CLASSROOM ROOSEVELT ELEMENTARY SCHOOL BAKERSFIELD CITY SCHOOL DISTRICT BAKERSFIELD, KERN COUNTY, CALIFORNIA, 93306

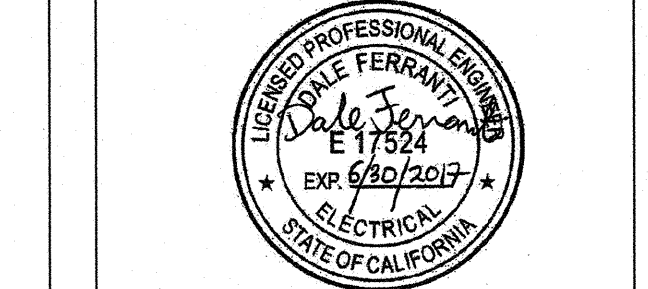
IDENTIFICATION STAMP: DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES. APRIL 03-116979. APRIL 15-6. AC PLAN 15. 30A. DATE 4-13-16. PTN 63321-204.



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SYMBOLS, GENERAL NOTES, ABBREVIATIONS.

PERMIT SUBMITTAL. JOB NO. DRAWN BY: G. GARCIA. CHECKED BY: D. FERRANTI. DATE: 2/12/2016. E 1.0 OF SHEETS.