

GENERAL NOTES

1. BEFORE SUBMITTING BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUANT HIMSELF WITH THE JOB CONDITION, SERVICE REQUIREMENTS BY UTILITY COMPANY AND CONNECTIONS, INCLUDING AND OTHER CONDITIONS, TRANSFORMER PAD, ALL NECESSARY PULL BOXES, JUNCTION BOXES, SIZE AND NUMBER OF CONDUITS AND CONDUCTORS, CONDUIT FITTINGS, SERVICE COMPONENTS, PANELBOARDS, ETC., WHETHER, SHOWN ON DRAWING OR NOT, TO MAKE A COMPLETE, AND OPERABLE ELECTRICAL SYSTEM WITHOUT ADDITIONAL COST TO OWNER.
2. ALL WORK SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE (C.E.C.) 2007 AND REGULATIONS OF ALL LEGALLY CONSTITUTED PUBLIC AUTHORITIES HAVING JURISDICTION, IN CASE OF CONFLICT BETWEEN REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY, FOLLOW THE LOCAL LAWS, RULES AND REGULATIONS FOR ANY CONFLICTS BETWEEN THE CONTRACT DRAWINGS AND THE LAWS, RULES AND REGULATION.
3. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS FOR THE EXECUTION OF THE WORK UNDER THIS CONTRACT. HE SHALL FURNISH ALL INSTRUMENTS AND PERFORM ALL TESTS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. HE SHALL ALSO CORRECT ALL FAILURES AND REPLACE ANY DAMAGED PORTIONS OF THE WORK RESULTING FROM THESE TESTS. THE COST OF THE FOREGOING ITEMS SHALL BE PAID BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE OWNER AND OTHER TRADES FOR ALL PHASES AND SCHEDULING OF WORK, AND AUTHORIZED IN WRITING BY THE OWNER AT LEAST ONE WEEK PRIOR TO THE EXECUTION OF ANY WORK.
5. ALL MATERIAL FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW AND UN LISTED, FREE FROM ALL DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE WORK.
6. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRINGS AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
7. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.
8. ALL RECEPTACLES AND OUTLET MOUNTING HEIGHTS AND EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL, DRAWINGS ELEVATIONS PRIOR TO ROUGH-IN WORK.
9. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN RELATED CEILINGS. FIXTURES SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND ACCESSORIES, FIXTURES LOCATION IN DAMP OR WET LOCATIONS SHALL BE LABELED FOR USE IN SUCH LOCATIONS.
10. ALL RECESSED LIGHTING FIXTURES, SPEAKERS, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE.
11. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 INCHES HORIZONTAL, U.B.C. 4304. OPENING IN FIRE RATED WALLS GREATER THAN 16 SQ. INCHES MUST BE FIRE STOPPED.
12. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPES, SPACES ETC.
13. PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE. THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC., SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
14. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH DIVISION 15 AND ASSOCIATED DRAWINGS. CONTRACTOR TO OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, ETC., AS INDICATED THEREON AS PROVIDED UNDER THE ELECTRICAL WORK.
15. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
16. THE CONTRACTOR SHALL VERIFY THE LOAD INPUT VOLTAGE OF ALL EQUIPMENT PRIOR TO INSTALLATION. ACCEPTING ANY EQUIPMENT RESULT IN LOAD INCREASE SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
17. PROVIDE AN ADDITIONAL JUNCTION BOX (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
18. CONDUCTORS SHALL BE THHN/THWN 600 VOLT INSULATION COPPER UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTORS AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC, TABLE 310 AND ELSEWHERE IN CODE.
19. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRE TO ELECTRICAL WORK AND INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS TO MATCH IN COLOR ADJACENT SURFACES IN FINISHED AREAS.
20. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. OR LOCAL CODE AND SHALL BE DESIGN TO PROVIDE MINIMUM REQUIRE FOOTCANDELS AND LUMENS.
21. BRANCH CONTROL, CIRCUITING MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY LATEST NATIONAL ELECTRICAL CODE (N.E.C.) AND ANY LOCAL SUPPLEMENT. CONTRACTOR SHALL SUBMIT FINISH DRAWINGS AS A PART OF SHOP DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION.
22. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA. [NON HEALTH CARE FACILITY INCLUDE OSHPD NOTES FOR HEALTH CARE FACILITY]
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| FIXED EQUIPMENT ON GRADE | 33% OF OPERATING WEIGHT |
| FIXED EQUIPMENT ON STRUCTURE | 50% OF OPERATING WEIGHT |
| EMERGENCY POWER AND COMMUNICATION EQUIPMENT ON | 50% OF OPERATING WEIGHT |
| EMERGENCY POWER AND COMMUNICATION ON STRUCTURE | 75% OF OPERATING WEIGHT |

FOR FLEXIBLE MOUNTED EQUIPMENT USE 2 X THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE – USE 1/3 X HORIZONTAL FORCE. CONDUIT, BUSDUCT, CABLE TRAY, WIREMANS, ETC., SHALL BE BRACED IN A ACCORDANCE WITH "GUIDELINE", PUBLISHED BY SMOCKA AND PRIG.

LEGEND AND NOTES

- ⓘ SINGLE POLE TOGGLE SWITCH 20 AMP, 120 V, @ 44" AFF
- Ⓢ DOUBLE POLE TOGGLE SWITCH 20 AMP, 120 V, @ 44" AFF
- Ⓢ THREE WAY SWITCH 20 AMP, 120 V, @ 44" AFF
- Ⓜ DIMMER SWITCH 1800 WATTS, 15 AMP MINIMUM, 120 V, @ 44" AFF
- Ⓜ MOTOR RATED SWITCH, HP RATED
- Ⓢ SINGLE RECEPTACLE, NEMA RATING AS NOTED
- Ⓢ DUPLEX RECEPTACLE 20 AMP, 120 V GROUNDING TYPE, @ 15" AFF
- Ⓢ DOUBLE DUPLEX RECEPTACLE 20 AMP, 120 V GROUNDING TYPE, @ 15" AFF
- Ⓢ DOUBLE DUPLEX RECEPTACLE 20 AMP, 220 V GROUNDING TYPE, @ 15" AFF
- Ⓢ TELEPHONE OUTLET WITH 3/4" CONDUIT TO ACCESSIBLE CEILING.
- Ⓢ FAX OUTLET
- ▷ DATA OUTLET WITH 3/4" CONDUIT TO ACCESSIBLE CEILING.
- Ⓢ JUNCTION BOX TO SUIT THE FIELD CONDITIONS
- Ⓢ MOTOR OUTLET
- Ⓢ POINT OF CONNECTION
- Ⓢ TV OUTLET PROVIDE 3/4" CONDUIT TO THE ACCESSIBLE CEILING.
- NOTES:
1. SUBSCRIPT LETTER NEXT TO THE ABOVE SYMBOLS INDICATES DEVICE CONTROLLED
2. DEVICES AND COVER PLATE COLOR AS SELECTED BY ARCHITECT. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF OUTLET, UNLESS NOTED. COORDINATE REFRIGERATION OUTLET REQUIREMENT WITH HILLS REFRIGERATION PLAN.
3. RECEPTACLES IN BATHROOM, LAUNDRY ROOM, AND KITCHEN SINK AND EXTERIOR LOCATIONS SHALL BE GROUND FAULT TYPE (GFI)
- Ⓢ EMERGENCY CIRCUIT. LOCK ON DEVICE FOR BREAKER SERVING
- Ⓢ CIRCUIT BREAKER
- Ⓢ SWITCH AND FUSES
- Ⓢ DISCONNECT SWITCH
- Ⓢ COMBINATION MAGNETIC STARTER & FUSED DISCONNECT
- Ⓢ MANUAL MOTOR STARTER 3-P, W / OVER LOAD PRETECTION
- Ⓢ WATT/HOUR METER SOCKET
- Ⓢ TRANSFORMER
- Ⓢ CURRENT TRANSFORMER
- Ⓢ SWITCHBOARD
- Ⓢ PANELBOARD
- NOTES:
1. BREAKERS, SWITCHES, FUSES, METER SOCKETS, AND CURRENT CARRYING DEVICES SHALL BE DESIGNED TO WITHSTAND MAXIMUM AVAILABLE FAULT CURRENT (AFC) ESTABLISHED BY SERVING UTILITY
2. SWITCHBOARDS AND PANELBOARDS BUSSING SHALL BE BRACED TO WITHSTAND MAXIMUM AVAILABLE FAULT
- Ⓢ CONDUIT HOME RUN TO SOURCE INDICATING PANEL "A" CIRCUITS #1, 3 & 5
- Ⓢ CONDUIT RUN CONCEALED IN CEILING SPACE OR IN WALL
- Ⓢ CONDUIT RUN BELOW FLOORS OR IN GRADE
- Ⓢ HASH MARKS INDICATE QUANTITY OF CONDUCTORS. NO HASH MARK INDICATES 2 #12 AWG. U.O.N. (#10 INDICATES #10 AWG. CONDUCTORS) SIZE OF CONDUIT SHALL BE BASED ON TABLE 1, CHAPTER 9 OF N.E.C. AND TABLE 3A AND 3B SHALL DETERMINE THE CONDUIT SIZES. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- Ⓢ TELEPHONE CABLE IN 3/4" CONDUIT
- Ⓢ TELEPHONE CABLE IN 3/4" CONDUIT & DATA CABLE IN 3/4" CONDUIT, U.O.N.
- Ⓢ CONDUIT RUN FOR SPEAKER SYSTEM. 3/4" C. U.O.N.
- Ⓢ CONDUIT RUN FOR FIRE ALARM SYSTEM. 3/4" C. U.O.N.
- NOTES:
1. TELEPHONE AND TELEVISION CABLES MAY BE PREWIRED BY LOCAL TEL/COMW/CABLE TV. COMPANY.
2. ALL CONDUIT SHALL BE RIGID STEEL OR EMT. FLEXIBLE CONDUIT SHALL BE LIMITED TO 72" FOR FINAL CONNECTION TO LIGHTING FIXTURES OR MOTORS, INCLUDE GROUNDING CONDUCTOR. P.V.C. CONDUIT SHALL BE USED ONLY FOR UNDERGROUND.
- (E) EXISTING
- (N) NEW
- (R) RELOCATED

CONSTRUCTION NOTES:

CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THIS JOB TO FAMILIARIZE HIMSELF AS TO THE EXTENT OF WORKREQUIRED, AND EXISTING CONDITION, AND SHALL TAKE THESE INTO CONSIDERATION IN THE COST OF HIS BID.

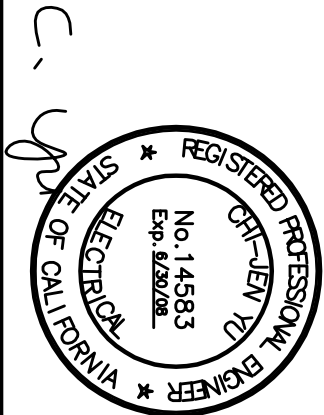
LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	MARK	LAMP			FITTURE VA	VOLT	MOUNTING	MANUFACTURER & MODEL
			TYPE	NO.	WATT				
A	Ⓢ	FLUORESCENT DOWNLIGHT	280TT	1	26	28	120	RECESSED	TO BE SELECTED BY ARCH.
AX	Ⓢ	FLUORESCENT DOWNLIGHT	280TT	1	26	28	120	RECESSED	SAME AS TYPE "A" EXCEPT W/ 90 MINUTES BATTERY BACK-UP
B	Ⓢ	FLUORESCENT DOWNLIGHT	42TRT	1	42	48	120	RECESSED	TO BE SELECTED BY ARCH.
BX	Ⓢ	FLUORESCENT DOWNLIGHT	42TRT	1	42	48	120	RECESSED	SAME AS TYPE "A" EXCEPT W/ 90 MINUTES BATTERY BACK-UP
C	Ⓢ	FLUO. DOWNLIGHT W/ DIMMER BALLAST	42TRT	1	42	48	120	RECESSED	TO BE SELECTED BY ARCH.
D1	--Ⓢ--	FLUORESCENT TUBE	F14T5	1	14	20	120	SURFACE	TO BE SELECTED BY ARCH.
D2	----Ⓢ-----	FLUORESCENT TUBE	F28T5	1	28	30	120	SURFACE	TO BE SELECTED BY ARCH.
E	EXIT	EXIT SIGN	LED	-	20	120	SURFACE	TO BE SELECTED BY ARCH.	W/ 90 MINUTES BATTERY BACK-UP
F	HO	OUTDOOR COLUMN LIGHT	180TT	1	18	22	120	COLUMN MOUNTED	TO BE SELECTED BY ARCH.

* FOR WET AND DAMP LOCATION.

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PROJECT NO : 80428
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