

ELECTRICAL SPECIFICATIONS

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE RECOMMENDED SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.

2. BRANCH CONTROL CIRCUITING AND WIRE COUNT 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 AUTHORITY. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).

3. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LOCALLY ADOPTED, AS NATIONAL ELECTRICAL CODE ADAPTED BY THE JURISDICTION AND ANY LOCAL SUPPLIMENTS.

4. ALL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSED TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK OR THE WORK OF OTHER CONTRACTORS.

5. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.

6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.

7. ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.

8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS.

9. ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE EMBEDED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE.

10. 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.

11. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHOULD OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, ETC., AS INDICATED THEREON AS PROVIDED UNDER THE ELECTRICAL WORK.

12. 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.

13. THE CONTRACTOR SHALL VERIFY THE LOAD INPUT VOLTAGE OF ALL EQUIPMENT PRIOR TO INSTALLATION. ACCEPTING ANY EQUIPMENT RESULTING IN A LOAD INCREASE SHALL BE THE RESPONSIBILITY OF CONTRACTOR.

14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS IN FIRE RATED WALLS GREATER THAN 16 SQ. IN. MUST BE FIRE STOPPED.

15. PROVIDE AN ADDITIONAL JUNCTION BOX (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.

16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY REDUCTION FACTORS AS INDICATED IN NEC TABLE 310 AND ELSEWHERE IN CODE.

17. ALL FLUORESCENT BALLASTS AND LAMPS SHALL BE CALIFORNIA ENERGY COMMISSION(CEC) CERTIFIED ENERGY SAVING TYPE.













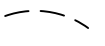


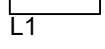

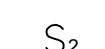

















18. DO ALL DRILLING, CUTTING, CHANNELAS AS REQUIRED FOR ELECTRICAL WORK AND INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).

19. 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 ENVELOPS, SPACES ETC.

20. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. AND SHALL BE DESIGNED TO PROVIDE MINIMUM REQUIRED FOOT CANDLES AND LUMENS. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY INSPECTION AUTHORITIES HAVING JURISDICTIONS.

21. 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:
FIXED EQUIPMENT ON GRADE: 33% OF OPERATING WEIGHT
FIXED EQUIPMENT ON STRUCTURE: 50% OF OPERATING WEIGHT
EMERGENCY POWER AND COMMUNICATION □ EQUIPMENT ON GRADE: 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, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUIDELINES", PUBLISHED BY SMACNA AND PPIC.
- NOTICE
THESE DRAWINGS ARE SUBJECT TO AN APPROVAL OF THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AGENCIES AUTHORITY HAVING JURISDICTION (AHJ), BY THE ACT OF SUBMITTING A BID PROPOSAL. FOR WORK, THE CONTRACTOR HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPT FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.
- CONDUIT AND CONDUCTORS SCHEDULE
- | Mark No. | OCP Device (A/P) | Rating in Amperes | Conductors | | | | | | | | | | Mark No. | OCP Device (A/P) | Load in Amperes | Conductors | | | | | | | | | | | | | | | |
|----------|------------------|-------------------|------------|---------|-------|------|-------------------------------|-----|------|-------|---------|-------|----------|------------------|-----------------|------------|-----------|------------|-------------------------------|-----|-----|-----|---------|------|------|------|------|------|------|------|------|
| | | | Phase | Neutral | Equip | Grd | Roceway Size (nominal inches) | | | | With IG | Phase | | | | Neutral | Equip | Grd | Roceway Size (nominal inches) | | | | With IG | | | | | | | | |
| | | | Qty | Type | Qty | Size | No. Sets | EMT | IMC | RIGID | PVC | EMT | IMC | PVC | No. Sets | EMT | IMC | RIGID | PVC | EMT | IMC | PVC | EMT | IMC | PVC | | | | | | |
| 1 | 20/1 | 20 | 2 | 12 | THHN | 1 | 12 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 25 | 90/3 | 65 – 72 | 4 | 2 | THW | 1 | 6 | One | 1.50 | 1.25 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | |
| 2 | 20/2 | 20 | 3 | 12 | THHN | 1 | 12 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 26 | 100/2 | 73 – 80 | 3 | 1 | THW | 1 | 6 | One | 1.50 | 1.50 | 1.50 | 1.50 | 2 | 2 | 2 | |
| 3 | 20/3 | 20 | 4 | 12 | THHN | 1 | 12 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 27 | 100/3 | 73 – 80 | 4 | 1 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 4 | 25/1 | 17 – 20 | 2 | 10 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 28 | 110/2 | 81 – 88 | 3 | 1 | THW | 1 | 6 | One | 1.50 | 1.50 | 1.50 | 1.50 | 2 | 2 | 2 | |
| 5 | 25/2 | 17 – 20 | 3 | 10 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 29 | 110/3 | 81 – 88 | 4 | 1 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 6 | 25/3 | 17 – 20 | 4 | 10 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 30 | 125/2 | 89 – 100 | 3 | 1 | THW | 1 | 6 | One | 1.50 | 1.50 | 1.50 | 1.50 | 2 | 2 | 2 | |
| 7 | 30/1 | 21 – 24 | 2 | 10 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 31 | 125/3 | 89 – 100 | 4 | 1 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 8 | 30/2 | 21 – 24 | 3 | 10 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 32 | 150/2 | 101 – 120 | 3 | 1/0 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 9 | 30/3 | 21 – 24 | 4 | 10 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 33 | 150/3 | 101 – 120 | 4 | 1/0 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 10 | 40/1 | 25 – 32 | 2 | 8 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 34 | 175/2 | 121 – 140 | 3 | 2/0 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 11 | 40/2 | 25 – 32 | 3 | 8 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 35 | 175/3 | 121 – 140 | 4 | 2/0 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2.50 | 2.50 | 2.50 | |
| 12 | 40/3 | 25 – 32 | 4 | 8 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 1 | 36 | 200/2 | 141 – 160 | 3 | 3/0 | THW | 1 | 6 | One | 2 | 2 | 2 | 2 | 2.50 | 2.50 | 2.50 |
| 13 | 50/1 | 33 – 40 | 2 | 6 | THHN | 1 | 10 | One | 0.75 | 0.75 | 0.75 | 1 | 1 | 1 | 1 | 37 | 200/3 | 141 – 160 | 4 | 3/0 | THW | 1 | 6 | One | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| 14 | 50/2 | 33 – 40 | 3 | 6 | THHN | 1 | 10 | One | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 38 | 225/2 | 161 – 180 | 3 | 4/0 | THW | 1 | 4 | One | 2.50 | 2 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| 15 | 50/3 | 33 – 40 | 4 | 6 | THHN | 1 | 10 | One | 1.25 | 1 | 1 | 1.25 | 1.25 | 1.25 | 39 | 225/3 | 161 – 180 | 4 | 4/0 | THW | 1 | 4 | One | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 3 | 3 | |
| 16 | 60/1 | 41 – 48 | 2 | 4 | THW | 1 | 8 | One | 1 | 1 | 1 | 1 | 1 | 1 | 40 | 250/3 | 181 – 200 | 4 | 250 | THW | 1 | 4 | One | 2.50 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 17 | 60/2 | 41 – 48 | 3 | 4 | THW | 1 | 8 | One | 1.25 | 1 | 1.25 | 1.25 | 1.25 | 1.25 | 41 | 300/3 | 210 – 240 | 4 | 350 | THW | 1 | 4 | One | 3 | 3 | 3 | 3 | 3.50 | 3.50 | | |
| 18 | 60/3 | 41 – 48 | 4 | 4 | THW | 1 | 8 | One | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 42 | 350/3 | 241 – 280 | 4 | 500 | THW | 1 | 3 | One | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 4 | 4 | |
| 19 | 70/1 | 49 – 56 | 2 | 4 | THW | 1 | 8 | One | 1 | 1 | 1 | 1 | 1.25 | 1 | 43 | 400/3 | 281 – 320 | 4 | 3/0 | THW | 2 | 3 | Two | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | |
| 20 | 70/2 | 49 – 56 | 3 | 4 | THW | 1 | 8 | One | 1.25 | 1 | 1.25 | 1.25 | 1.25 | 1.25 | 44 | 600/3 | 321 – 480 | 4 | 350 | THW | 2 | 1 | Two | 3 | 3 | 3 | 3 | 3.50 | 3.50 | | |
| 21 | 70/3 | 49 – 56 | 4 | 4 | THW | 1 | 8 | One | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 45 | 800/3 | 481 – 640 | 4 | 500 | THW | 2 | 1/0 | Two | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 4 | 4 | |
| 22 | 80/2 | 57 – 64 | 3 | 3 | THW | 1 | 8 | One | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 46 | 1000/3 | 641 – 800 | 4 | 400 | THW | 3 | 2/0 | Three | 3 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | |
| 23 | 80/3 | 57 – 64 | 4 | 3 | THW | 1 | 8 | One | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 47 | 1200/3 | 801 – 960 | 4 | 350 | THW | 4 | 3/0 | Four | 3 | 3 | 3 | 3 | 3.50 | 3.50 | | |
| 24 | 90/2 | 65 – 72 | 3 | 2 | THW | 1 | 6 | One | 1.25 | 1.25 | 1.25 | 1.25 | 1.50 | 1.25 | 1.50 | 48 | 1600/3 | 961 – 1280 | 4 | 400 | THW | 5 | 4/0 | Five | 3 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
- Notes:
Conductors are rated at 600 volt or below and are to be copper.
NEC Table 310.15(B)(16) – formerly Table 310.16 – is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14–C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.
NEC Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).
- All Branch Feeders and Branch Circuits shall include a green Equipment Ground.
OmIt Grounding conductor on Service Entrance Feeders and Neutral on Delta Primary xfmr Feeders.
The above conductors are not calculated for Voltage Drop. Circuits that exceed 100 feet shall be calculated by the installer to have less than a 3 percent voltage drop on feeders and 5 percent on branch circuits per the NEC.
- TESTING FOR EMERGENCY RESPONSE RADIO COVERAGE SHALL BE CONDUCTED IN ACCORDANCE WITH IFC 510
- MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".
- ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE JUNCTION BOXES.
- NO UNDER SLAB ELECTRICAL WORK ALLOWED UNLESS OTHERWISE NOTED ON PLAN.
- ELECTRICAL SYMBOLS LIST
- NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.
- | POWER DISTRIBUTION | | RECEPTACLES □ COMMUNICATIONS OUTLETS | |
|---|---|---|---|
|  | SINGLE-POLE SWITCH, MANUAL MOTOR STARTER |  | DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD □ 18" A.F.F. U.N.O. |
|  | J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.) |  | SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD □ 18" A.F.F. U.N.O. |
|  | DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS |  | DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F. |
|  | COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR. |  | GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD □ 18" A.F.F. U.N.O. |
|  | BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS. |  | GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F. |
|  | BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS |  | TELEPHONE OUTLET. PROVIDE FLUSH J-BOX □ □ 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. "2" SUBSCRIPT INDICATES WALL PHONE AT 54" AFF. |
|  | INDICATES EXTERIOR UNDERGROUND WIRE RUNS. |  | DATA OUTLET. PROVIDE FLUSH J-BOX □ □ 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. |
| LIGHTING □ LIGHTING CONTROLS | |  | COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX □ □ 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. |
|  | LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE. |  | T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX □ □ 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE FOR MOUNTING HEIGHT. |
|  | SINGLE-POLE SWITCH □ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A. |  | SPECIAL PURPOSE RECEPTACLE MTD. □ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQD. |
|  | TWO-POLE SWITCH □ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A. |  | ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A, 125V, MTD □ □ 18" A.F.F. |
|  | SINGLE-POLE LIGHT SWITCH WITH PILOT LIGHT □ 44" A.F.F. U.N.O. 300V. 20A. |  | DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER |
|  | OCCUPANCY SENSOR SWITCH WITH OFF CONTROL, AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC., W/200 FOR CLASSROOMS/LARGE ROOMS/ETC. |  | ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A, 125V. |
|  | CEILING MOUNT DUAL TECHNOLOGY ULTRASONIC / P.I.R. MOTION SENSOR TO CONTROL POWER TO ROOM SWITCHES - WATTSTOPPER #DT-300 (WITH POWER PACK) OR EQUAL. |  | SPEAKER |
| ABBREVIATIONS | | FIRE ALARM | |
| A. AMPERES | M.C.B. MAIN CIRCUIT BREAKER |  | MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE. |
| AL. ALUMINUM | M.L.O. MAIN LUGS ONLY |  | XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER), MUST MEET OR EXCEED A.D.A. REQUIREMENTS. |
| A.F.F. ABOVE FINISHED FLOOR | MTD. MOUNTED |  | COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER), UNIT MUST MEET OR EXCEED A.D.A. REQUIREMENTS. |
| A.F.G. ABOVE FINISHED GRADE | P. POLE |  | FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F. |
| C. CONDUIT | P.W. TELEPHONE MOUNTING BOARD |  | FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F. |
| CU. COPPER | T.M.B. TYPICAL |  | PHOTO ELECTRIC TYPE SMOKE DETECTOR. |
| DISC. DISCONNECT | U.N.O. UNLESS NOTED OTHERWISE |  | DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR. |
| F. FUSE | V. VOLTS |  | RATE OF RISE HEAT DETECTOR. |
| GFI. GROUND FAULT CURRENT INTERRUPTER | W.P. WEATHERPROOF TRANSFORMER PHASE | | |
| GND. GROUND | XFMR. TRANSFORMER | | |
| H.P. HORSE POWER | Ø. Ø | | |
| k. 1000 | | | |
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