









ELECTRICAL SYMBOLS - POWER PLAN

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| | MOTOR, SINGLE-PHASE |
| | TRANSFORMER |
| | EARTH GROUND |
| | JUNCTION BOX WITH COVER, COSE GAGE AND SIZE AS REQUIRED WHEN SHOWN FOR EQUIPMENT ON PLANS; THIS CONTROLS THE DO ALL REQUIRED WIRING FOR THAT EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS. |
| | BRANCH CIRCUIT HOWEVER, LINES INDICATE NUMBER OF CIRCUITS TO BE PROVIDED WHICH IS BASED UPON STANDARD LOADS. GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOWEVER NOT SHOWN |
| | WIRE IN CONDUIT CONCEALED IN WALL OR CEILING. |
| | WIRE IN CONDUIT EXPOSED. |
| | WIRE IN CONDUIT CONCEALED IN CONCRETE OR UNDERGROUND. |
| | CABLE TRAY CONCEALED IN CEILING BELOW. |
| | 277/480V PANELBOARD, FLUSH MOUNTED |
| | 277/480V PANELBOARD, SURFACE MOUNTED |
| | 120/208V PANELBOARD, FLUSH MOUNTED |
| | 120/208V PANELBOARD, SURFACE MOUNTED |
| | RECEPTACLE, DUPLEX |
| | "CI" INDICATES DEVICES DO BE LOCATED ABOVE COUNTER |
| | RECEPTACLE, DUPLEX ON EMERGENCY |
| | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER |
| | "WP" INDICATES WEATHER-PROOF RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER AND IN-USE COVER |
| | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER ON EMERGENCY |
| | RECEPTACLE, QUADPLEX |
| | RECEPTACLE, QUADPLEX ON EMERGENCY POWER |
| | RECEPTACLE, SINGLE |
| | RECEPTACLE, SPECIAL PURPOSE |
| | VARY 3 PHASE CONFIGURATION AND RATING |
| | DISCONNECT SWITCH, FUSED |
| | DISCONNECT SWITCH, UNFUSED |
| | STARTER, COMBINATION WITH DISCONNECT SWITCH |
| | MANUAL MOTOR STARTER |

ELECTRICAL SYMBOLS - LIGHTING PLAN

- So** SINGLE POLE SWITCH. SMALL LETTER INDICATES CIRCUIT OR FIXTURE CONTROLLED. MORE THAN ONE LETTER INDICATES NUMBER OF SWITCHES.

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| S4 | FOUR WAY SWITCH. |
| Skey | SINGLE POLE SWITCH (KEY OPERATED). |
| SD | DIMMER SWITCH/POWER PACK. LUTROL |


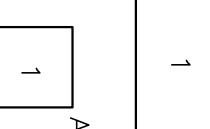



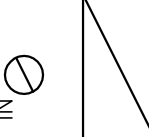



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|---|--------------------------------|
|  | SMOKE DETECTOR |
|  | MANUAL FIRE ALARM PULL STATION |
|  | STROBE |
|  | CEILING SPEAKER |
|  | CONTROL MODULE |
|  | MONITOR MODULE |
|  | MAGNETIC DOOR HOLDER |
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- Ⓢ CEILING/WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR WITH ADJUSTABLE TIME DELAY AND ADJUSTABLE SENSITIVITY, CONNECT TO THE RELAY/POWER SUPPLY AS PER THE MANUFACTURER'S RECOMMENDATION. INITIALLY, SET TIME DELAY FOR MAXIMUM TIME ON, RESET TIME DELAY AS DIRECTED BY ARCHITECT. WAIT STOPPER CAT.# DT-355







- CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR WITH ADJUSTABLE DELAY. THE DELAY AND ADJUSTABLE SENSITIVITY CONFORMS TO THE RELAY/POWER SUPPLY AS PER THE MANUFACTURER'S RECOMMENDATION. INITIALLY, SET THE DELAY FOR MAXIMUM TIME ON, RESET THE DELAY AS DIRECTED BY ARCHITECT. WAIT STOPPER Cx-100
- CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR WITH ADJUSTABLE DELAY. CONNECT TO THE RELAY/POWER SUPPLY AS PER THE MANUFACTURER'S RECOMMENDATION. INITIALLY, SET THE DELAY FOR MAXIMUM TIME ON, RESET THE DELAY AS DIRECTED BY ARCHITECT. WAIT STOPPER Cx-100

- COMBINATION POWER SUPPLY AND MOUNT IN PLACE FOR USE WITH REMOTE MOTION SENSORS. MOTION IN AN ELECTRICAL JUNCTION BOX AND LOCATE ABOVE AN ACCESSIBLE RETURN IN CONCEALED AREAS. QUANTITY OF MOTION SENSORS INDICATED TO BE CONNECTED IN FINISHED AREAS WITH INDOOR CASE CEILING. LOCATE IN NEAREST ELECTRICAL CLOSET. WAIT STOPSER CABLE #40.

ELECTRICAL SYMBOLS - LIGHTING PLAN (CONT)

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 TO TYPE DOWN LIGHTING FIXTURE

 B
 LED 2 x 4 LIGHTING FIXTURE, NUMBER INDICATES CIRCUIT AND SMALL LETTER INDICATES CONTROLLING SWITCH.

 DIRECTIONAL, LED TYPE LIGHTING FIXTURE

 UNDERCOUNTER/UNDERCABINET LIGHTING FIXTURE.

 LIGHT FIXTURE, LED TYPE ON EMERGENCY, NL, INDICATES NIGHT LIGHT (UNSWITCHED)

 LED TYPE DOWN LIGHTING FIXTURE ON EMERGENCY, NL, INDICATES NIGHT LIGHT (UNSWITCHED)

 EXIT LIGHT FIXTURE, LED TYPE

 INDICATES WALL MOUNTED

 INDICATES DIRECTION OF ARROW, IF ANY.

COMMUNICATION SYMBOLS

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 COMMUNICATION TELEPHONE AND DATA OUTLET: (1) DATA AND (1) TELEPHONE JACKS. PROVIDE A 4/4" EMPT. CONDUIT SHIPPED TO MATCH OWNER EQUIPMENT AS REQUIRED.

 DATA OUTLET ONLY. PROVIDE 3/4" EMPT. CONDUIT SHIPPED TO MATCH OWNER EQUIPMENT AS REQUIRED.

 TELEPHONE OUTLET. DESK TYPE. PROVIDE 3/4" EMPT. CONDUIT SHIPPED TO MATCH OWNER EQUIPMENT AS REQUIRED.

 TELEPHONE OUTLET. CEILING SWAY. PROVIDE 3/4" EMPT. CONDUIT SHIPPED TO MATCH OWNER EQUIPMENT AS REQUIRED.

 OUTLET, TELEVISION, 4 1/16" BOX WITH SINGLE CIRC. MUD RING. COVER TO JACK, JACK TO MATCH OWNER EQUIPMENT. TELEVISION CABLE TO BE PROVIDED BY OTHERS. PROVIDE 3/4" EMPT. CONDUIT SHIPPED TO MATCH OWNER EQUIPMENT WITH ARCHITECTURAL FINISHES.

 TELEPHONE TERMINAL CABINET
 TELEPHONE BACKBOARD (WALL MOUNTED)

- 19 NURSE CALL CORRIDOR DOME LIGHT

MOUNTING HEIGHTS

- UNLESS NOTED OTHERWISE, ALL SWITCHES, RECEPTACLES, AND OUTLETS SHALL BE MOUNTED TO CONTRIBUTE AS FOLLOWS:
- GENERAL AREAS
- SWITCHES & PUSH BUTTONS - 4'2" AFF.
RECEPTACLES - 4'0" AFF.
VOLUME/PAW - 18" AFF.
- F.A. PULL STATION - 4'2" AFF.
F.A. HOLD/STROBE - 6'-8" AFF. (TO 8070M)
F.A. STROBE - 6'-8" AFF. (TO 8070M)
- F.A. DUCT DETECTOR REMOTE INDICATOR IN CEILING DIRECTLY BELOW DETECTOR

GENERAL NOTES

1. THE ELECTRICAL INSTALLATION HEREIN SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL LOCAL AND GOVERNMENTAL ENGINEERING AUTHORITIES.
2. REFER TO OTHER DRAWINGS AND/OR SPECIFICATIONS CONCERNING PROTECTION, PLUMBING AND H.V.A.C. WORK FOR POSSIBLE ADDITIONAL WORK TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHERS LOCATIONS AS SHOWN ON PLANS ARE APPROPRIATE. ALL FINISHES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE ELECTRICAL CONTRACT. 18" OF LIGHTDUTY FLEXIBLE CONDUIT (USING APPROPRIATE FITTINGS) PROVIDE EXTERIOR WORK WERE WEARED ABOVE FLEXIBLE CONDUIT WERE REQUIRED BY CODE OR APPLICABLE FITTINGS.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ELECTRICAL CONTRACT AND THE ELECTRICAL CODE.
5. COMPLY WITH NATIONAL ELECTRICAL CODE: ARTICLE 110 AND ASSOCIATORY TABLES.
6. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL SUPPORTS FOR ALL ELECTRICAL EQUIPMENT AND DEVICES SUCH AS PANELBOARDS, MOUNTING STAPLERS, DISCONNECT SWITCHES, ETC.
7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR AND MATERIALS REQUIRED TO COMPLETE WIRING FOR ELECTRICAL AND MECHANICAL EQUIPMENT.
8. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND VERIFICATION OF FIELD CONDITIONS PRIOR TO INSTALLATION OF WORK. ANY CHANGE IN WORK NECESSARILY BE STABLE OF THE ELECTRICITY CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR BY THE ELECTRICAL CONTRACTOR AT HIS OWN EXPENSE.
9. THIS CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND PATCHING FOR WORK UNDER THIS CONTRACT. HE SHALL FURNISH AND INSTALL ALL NECESSARY SUPPORTS AND BRACKETS REQUIRED FOR ALL EQUIPMENT UNDER THIS CONTRACT.
10. WHERE CIRCUITS ARE TO BE CONNECTED TO EXISTING PANELBOARDS, THE CONTRACTOR SHALL CONNECT TO SPARE BREAKERS OR PROVIDE NEW BREAKERS (SAME INTERRUPTING CAPACITY) IN THE ELECTRICAL CONTRACTOR SHALL RE-ENERGIZE ELECTRICAL CIRCUITRY IN AREA(S) BEING RENOVATED BY DISCONNECTING THEM FROM THE PANELS) TO WHICH THEY ARE CONNECTED, WHEN EXISTING ELECTRICAL CIRCUITRY IS TO BE REMOVED OR REWIRING IS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBSEQUENT REINSTALLATION THEREOF, IF NEEDED, SHALL BE PERFORMED BY THIS CONTRACTOR, REGARDLESS OF WHETHER SUCH MECHANICAL OR ELECTRICAL CONTRACT AT THE COMPLETION OF THE WORK, ALL EXISTING AND NEW RECEPTACLES, LIGHTING FIXTURES, ETC., ARE TO BE LEFT READY FOR USEFUL OPERATION, AND ANY DISCONTINUITY OF WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK REPAIRED BY THIS CONTRACTOR, WHO SHALL INSTALL NEW WIRING TO WHOLE NEW LOCATIONS AS DESCRIBED IN SPECIFICATIONS.
11. ARCHITECT SHALL VERIFY MOUNTING HEIGHT OF DEVICES NOT INDICATED SHALL BE MOUNTED AT ABOVE CENTER, UNLESS OTHERWISE NOTED.
12. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING EXACT RATING AND PROPER CONFIGURATION OF ALL SPECIAL PURPOSE RECEPTACLES WITH EQUIPMENT BEING USED.
13. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING EXACT RATING AND PROPER CONFIGURATION OF ALL SPECIAL PURPOSE RECEPTACLES WITH EQUIPMENT BEING USED.
14. WHEN SWITCHES (SW, SA, SB, ETC.) ARE SHOWN ON THE PLANS, FOR NORMAL AND/OR EMERGENCY CIRCUIT, PROVIDE WULF-GANG DATA BOX CIRCUIT SWITCHES IN ONE COMMON BOX, PROVIDE INTERNAL BARRIER IN BOX BOX TO SEPARATE CIRCUITS.
15. DISCONNECT SWITCHES SHALL BE PROVIDED WHEN REQUIRED BY CODE, WHEN SHOWN ON THE PLANS OR NOT, USE HEAVY DUTY TYPE.
16. THIS CONTRACTOR SHALL UTILIZE EXISTING PANS AND LIGHT FIXTURES FOR TEMPORARY USE, AND UNLESS OTHERWISE NOTED BY THE OWNER, SHALL COMPLETELY REMOVE SAME INCLUDING ALL ASSOCIATED WIRING, WHEN EXISTING ELECTRICAL MATERIAL MUST BE REMOVED OR RELOCATED, ALL SUCH REMOVALS AND THE SUBSEQUENT REINSTALLATION THEREOF, CONTRACTOR, REGARDLESS WHETHER SUCH REMOVALS ARE REQUIRED FOR WORK UNDER THE MECHANICAL, PLUMBING OR THE ELECTRICAL CONTRACT, REPAIRS AND MATERIALS WHICH ARE TO BE REINSTALLED FOR THOSE ITEMS OR MATERIALS THE OWNER AT HIS OPTION, WHEN'S REVENUE, ITEMS AND MATERIALS THAT THE OWNER WISHES TO RETURN SHALL BE PROVIDED BY THE OWNER. ITEMS AND MATERIALS WHICH BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR SHALL BE COMPLETELY REMOVED BY HIM FROM THE SITE.
17. EACH RECEPTACLE AND ALL FIXED ELECTRICAL EQUIPMENT SHALL BE GROUNDED BY AN INSULATED GROUNDING CONDUCTOR.
18. WHEN BOTH NORMAL AND EMERGENCY PANELBOARDS ARE SERVING ELECTRICAL EQUIPMENT AND DEVICES IN ONE COMMON ROOM, GROUNDING TYPE OF DEVICES OR THE PANEL BOARD SHALL BE IDENTIFIED BY THE CONTRACTOR BY THE ELECTRICAL CONTRACTOR AT HIS OWN EXPENSE.
19. TYPES WITH ARCHITECT AND PROVIDE ALL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
20. ALL EMERGENCY DISCONNECT PANELS SHALL BE FACTORY ENGRAVED AS DESCRIBED BELOW.
21. TOP PORTION OF PLATE: "EMERGENCY"
22. LOWER PORTION OF PLATE: PANEL DESIGNATION WHEN THE CIRCUIT ORIGINATED, EXAMPLE: "N1, BX-3" AND CIRCUIT DESIGNATION, EXAMPLE: "LKT-11", HEIGHT OF NUMBER/LETTER SHALL BE 1/4" MINIMUM. SUBMIT SAMPLES.
23. ALL SEISMIC VIBRATIONS ARE TO MEET THE REQUIREMENTS OF SEISMIC CATEGORY "C".

ELECTRICAL ABBREVIATIONS

[illegible]

DEMOLITION SYMBOL LIST AND NOTES

[illegible]