

### ELECTRICAL GENERAL NOTES:

- ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE LOCATIONS IN BULKHEADS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND THE ELECTRIC WATER COOLER SHOP DRAWINGS FOR E.W.C. POWER CONNECTION.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING THE EXHAUST FANS LISTED IN MECHANICAL EQUIPMENT LIST/SCHEDULE BY REFERRING TO THE HVAC PLANS.
- FLEEDERS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. CONDUIT RUNS SHALL COMPLY WITH CONDUIT SPECIFICATIONS AND CONTAIN NO GREATER THAN 90 DEG. BENDS. CONDUITS SHALL BE RUN PARALLEL TO OR PERPENDICULAR WITH BUILDING LINES AND STEEL.
- REFER TO MECH. PLANS FOR EXACT LOCATIONS OF ROOF-TOP MECHANICAL EQUIPMENT. ALL ROOF-TOP EQUIPMENT REQUIRES WEATHERPROOF, GFI RECEPTACLE MOUNTED ON THAT PIECE OF EQUIPMENT (EXCLUDING SMALLER EXHAUST FANS) CIRCUIT WITH RECEPTS IN SPACE BELOW.
- ELECTRICAL CONTRACTOR SHALL REVIEW TOILET EQUIPMENT SHOP DRAWINGS FOR CORRECT DEVICE BOX ROUGH-IN LOCATION OF HAND AND HAIR DRYERS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW INTERIOR ELEVATION SHEETS FOR PLACEMENT OF DEVICE BOXES. COORDINATE LOCATIONS OF DEVICE BOXES SO AS NOT TO BE INSTALLED BEHIND MARKERBOARDS, TACKBOARDS, MIRRORS, ETC.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN SINGLE-RANG BOXES FOR HVAC TEMPERATURE CONTROL SENSORS ON ALL OCCUPIED ROOMS. IN ADDITION TO THE BOX, 3/4" CONDUIT TO THE NEAREST CABLE TRAY, COORDINATE WITH TEMPERATURE CONTROLS CONTRACTOR FOR SPECIFIC REQUIREMENT.
- ELEC. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL EQUIPMENT LIST AND PROVIDING ITEMS LISTED AS PROVIDED BY E.C., SUCH AS STARTERS, TIMERS, ETC.
- ALL FLUORESCENT LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500K AND CRI>70-80.
- CIRCUIT WIRING FOR THE EMERGENCY SYSTEMS SHALL BE INSTALLED IN SEPARATE CONDUIT/RAILWAY AND BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT PER N.E.C.
- ALL FEEDER AND BRANCH CIRCUITS TO PANELS, MOTORS, LIGHTS, RECEPTACLES, EQUIPMENT, GENERAL DISTRIBUTION ETC. SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR SIZED ACCORDING TO THE N.E.C. THE CONDUIT SYSTEM SHALL NOT BE CONSIDERED AN ACCEPTABLE GROUND.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND WIRE BETWEEN THE OCCUPANCY SENSORS AND RELAY CONTROL PANEL (BY OTHERS) AND/OR BETWEEN OCCUPANCY SENSORS, SWITCHES, AND LIGHT FIXTURES. THIS ALSO INCLUDES BUT IS NOT LIMITED TO WIRES FROM THE PHOTOCELL TO THE LIGHTING RELAY PANEL. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE VARIABLE FREQUENCY DRIVES PROVIDED BY MECHANICAL CONTRACTOR.
- CIRCUIT ALL EXIT SIGNS TO LOCAL LIGHTING CIRCUIT.
- ADJUST LUMINAIRE PLACEMENT IN MECHANICAL ROOMS TO ACCOMMODATE EQUIPMENT AND FIELD CONDITIONS. ALL LIGHTS SHALL BE EASILY ACCESSIBLE BY THE OWNER FOR FUTURE MAINTENANCE.
- THE USE OF MC CABLE SHALL BE LIMITED TO FIXTURE WHIPS FROM A HARD CONDUIT SYSTEM. "DASH CHANNING" OF LIGHT FIXTURES IS NOT PERMITTED. REFER TO SPECIFICATION FOR ADDITIONAL INFO.
- THE TEMPERATURE CONTROLS CONTRACTOR IS RESPONSIBLE TO PROVIDE 120VAC OR 24VAC POWER TO GENERAL PURPOSE MOTORIZED DAMPERS SHOWN ON MECHANICAL DRAWINGS PER SPECIFICATION DIVISION 80. THE E.C. SHALL PROVIDE POWER TO SMOKE DAMPERS AND DUCT SMOKE DETECTORS AS SHOWN ON DRAWINGS, COORDINATE WITH ALL TRADES AS NECESSARY.
- WHERE OCCUPANCY SENSORS ARE SHOWN IN A ROOM WITH LIGHTS CONNECTED TO A LIGHTING CONTROL PANEL, SENSOR SHALL ALSO BE WIRED TO THE CONTROL PANEL. IF SENSOR IS SHOWN IN A SPACE WITH STANDARD TOGGLE SWITCHES, E.C. SHALL WIRE SENSOR NETWORK TO ALL LIGHT SWITCHES IN THE ROOM INCLUDING UNDERCABINET LIGHT SWITCHES.
- ALL LOW-VOLTAGE CABLING, INCLUDING FIRE ALARM AND LIGHTING CONTROL CABLING, SHALL BE RUN IN 3/4" MINIMUM CONDUIT.

### LIGHTING SYMBOLS LEGEND

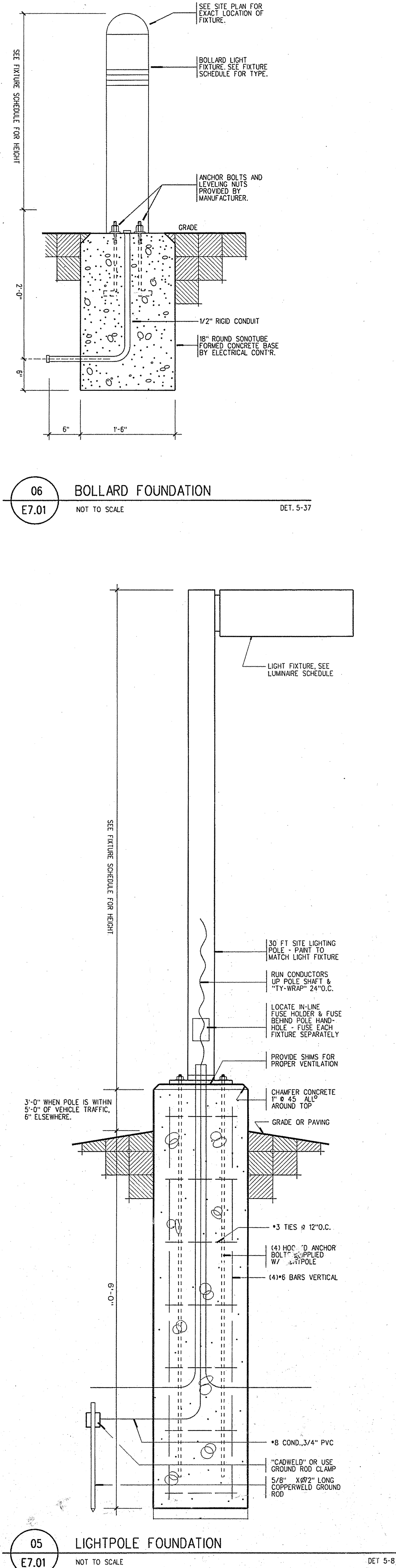
- § SINGLE POLE LIGHT SWITCH MOUNTED 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- §3 THREE WAY LIGHT SWITCH MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- §4 FOUR WAY LIGHT SWITCH MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- §K KEYED LIGHT SWITCH MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- §LV LOW VOLTAGE LIGHTING CONTROL STATION. REFER TO SPECIFICATIONS.
- §1 LIGHT SWITCH WITH ELECTRONIC TIMER AND LCD COUNTDOWN MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- §P LIGHT SWITCH WITH PILOT LIGHT MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- §PS PRESET DIMMING STATION MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- §D DIMMER LIGHT SWITCH REFER TO SPECIFICATIONS FOR TYPE. MOUNT AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- 2x4 LUMINAIRE TYPE "A"
- LUMINAIRE TYPE "A" FOR EMERGENCY ILLUMINATION. BACKUP TO BE PROVIDED BY EMERGENCY BATTERY PACK. REFER TO DRAWINGS AND SPECIFICATION 16.500 FOR DETAILS.
- ROUND LUMINAIRE TYPE "A". CHECK LUMINAIRE SCHEDULE FOR DIMENSIONS.
- ROUND WALL WASH LUMINAIRE TYPE "A" WITH ARROW TO INDICATE ORIENTATION OF OPTICS.
- ROUND LUMINAIRE TYPE "A" FOR EMERGENCY ILLUMINATION. POWERED BY BATTERY PACK. REFER TO DRAWINGS AND SPECIFICATION 16.500 FOR DETAILS.
- WALL SCENE TYPE "A". REFER TO LUMINAIRE SCHEDULE FOR MOUNTING DETAILS.
- CEILING MOUNTED "EXIT" SIGN TYPE "X" WITH DIRECTIONAL ARROWS SHOWN ON THE PLAN.
- WALL MOUNTED OR RECESSED "EXIT" SIGN TYPE "X" WITH DIRECTIONAL ARROWS SHOWN ON THE PLAN.
- CEILING MOUNTED "EXIT" SIGN TYPE "X".
- WALL MOUNTED OR RECESSED "EXIT" SIGN TYPE "X".
- OCCUPANCY SENSOR TYPE 1 WITH ORIENTATION SHOWN.
- PHOTO CELL.
- SITE LUMINAIRE TYPE "SA" WITH ARROW TO INDICATE ORIENTATION OF OPTICS. REFER TO LUMINAIRE SCHEDULE AND SPECIFICATIONS FOR DETAILS.

### FIRE ALARM SYMBOLS LEGEND

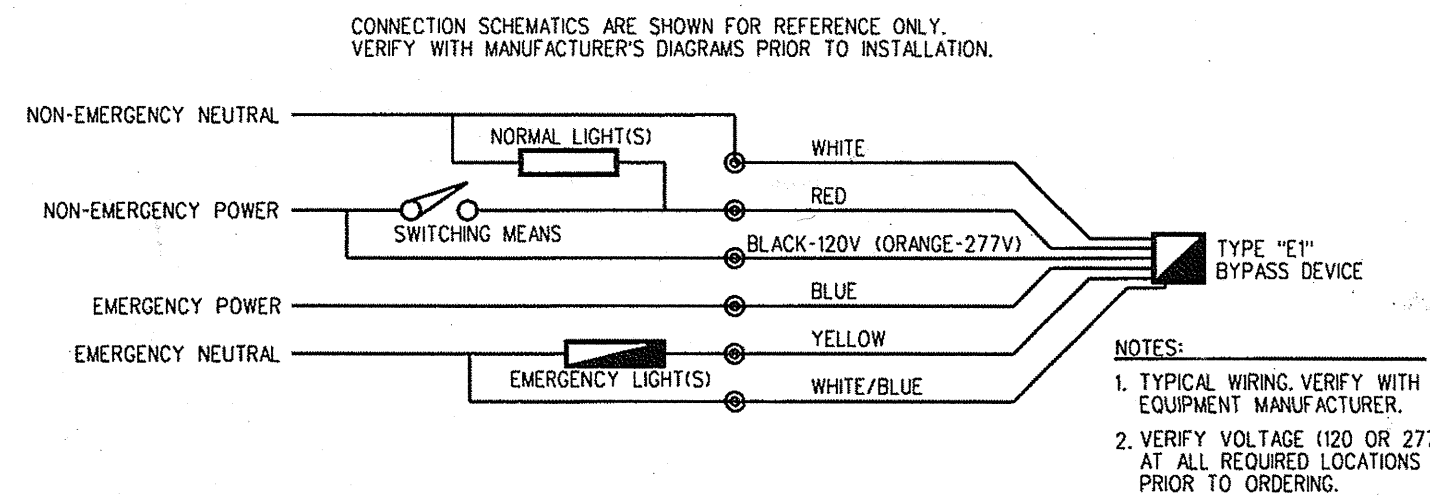
- DUCT SMOKE DETECTOR. FURNISHED BY FIRE ALARM CONTRACTOR. INSTALLED ON DUCT BY MECHANICAL CONTRACTOR. LOCATIONS ON DRAWINGS ARE FOR SYMBOLIC REFERENCE ONLY. DETECTORS ARE TO BE LOCATED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT TO DETECTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL WIRE AND MAKE ALL TERMINATIONS TO FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. FIRE ALARM CONTRACTOR SHALL PROVIDE/INSTALL REMOTE ANNUNCIATORS WHERE NECESSARY. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CEILING MOUNTED SMOKE DETECTOR.
- HEAT DETECTOR.
- MAGNETIC DOOR HOLD.
- DOUBLE ACTION FIRE ALARM PULL STATION MOUNTED AT 3'-8" AFF TO THE BOTTOM OF BOX.
- FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE MOUNTED AT 7'-4" AFF TO THE BOTTOM OF BOX. DEVICE SHALL BE SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
- FIRE ALARM VISUAL NOTIFICATION DEVICE MOUNTED AT 7'-4" AFF TO BOTTOM OF BOX. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
- FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE CEILING MOUNTED. DEVICE SHALL BE SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
- FIRE ALARM VISUAL NOTIFICATION DEVICE CEILING MOUNTED. CANDELA VALUE SHOWN IS FOR REFERENCE PURPOSES ONLY. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE.
- FIRE ALARM AUDIO SPEAKER, SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM, MOUNTED AT 8'-6" AFF TO THE BOTTOM OF THE BOX.
- CEILING MOUNT FIRE ALARM AUDIO SPEAKER, SUITABLE FOR USE WITH A VOICE EVACUATION SYSTEM.
- FLOW SWITCH PROVIDED BY FIRE PROTECTION CONTRACTOR. INTERCONNECTION BY FIRE ALARM CONTRACTOR.
- TAMPER SWITCH PROVIDED BY FIRE PROTECTION CONTRACTOR. INTERCONNECTION BY FIRE ALARM CONTRACTOR.
- FIRE ALARM CONTROL PANEL. SEE SPECIFICATIONS.

### ELECTRICAL SYMBOLS LEGEND

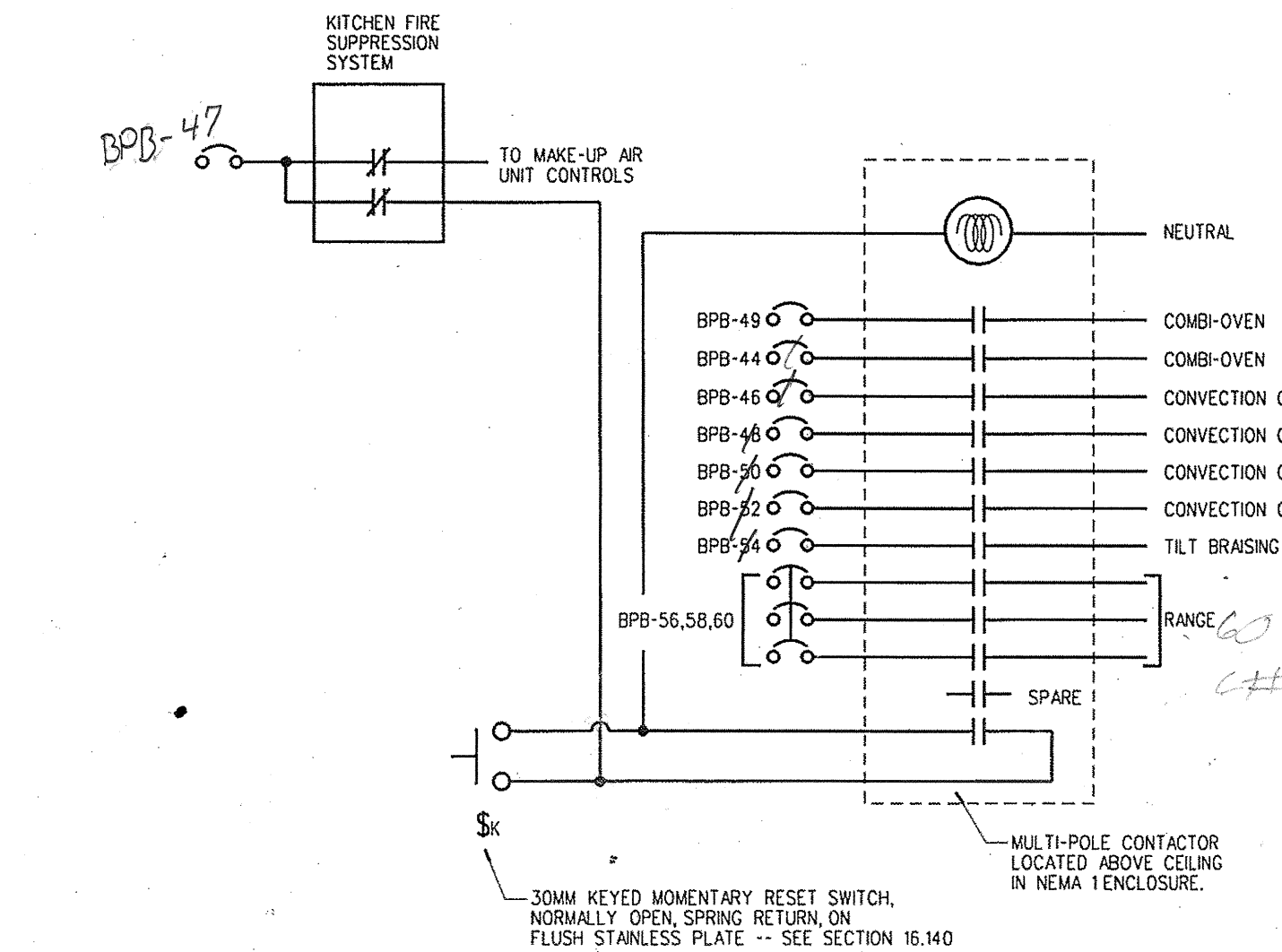
- THREE PHASE MOTOR CONNECTION, 3 HORSE POWER
- SINGLE PHASE MOTOR CONNECTION, 1/3 HORSE POWER
- HEAVY DUTY DISCONNECT
- HEAVY DUTY FUSED DISCONNECT
- COMBINATION MOTOR STARTER & FUSED DISCONNECT
- DIRECT ELECTRICAL CONNECTION
- BREAKER PANEL "A"
- LIGHTING PANEL "A"
- LIGHTING CONTROL PANEL "A"
- POWER (277/480) DISTRIBUTION PANEL "T"
- DISTRIBUTION PANEL "T" (120/208)
- HEAVY DUTY DISCONNECT
- HEAVY DUTY FUSED DISCONNECT
- COMBINATION DISCONNECT AND MOTOR STARTER
- VARIABLE FREQUENCY DRIVE FURNISHED BY MECHANICAL TRADES, INSTALLED BY ELECTRICAL CONTRACTOR.
- TRANSFORMER WITH 4" CONCRETE HOUSEKEEPING PAD
- DUPLEX RECEPTACLE MOUNTED VERTICAL AT 18" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED)
- SINGLE RECEPTACLE MOUNTED VERTICAL AT 18" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED)
- DUPLEX RECEPTACLE MOUNTED VERTICAL AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX.
- DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER MOUNTED VERTICAL AT 18" AFF TO THE BOTTOM OF THE DEVICE BOX. EACH RECEPTACLE MUST HAVE TEST AND RESET BUTTONS. (TYPICAL UNLESS OTHERWISE NOTED)
- DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER WITH WIRE-IN-USE CAST ALUMINUM WEATHERPROOF COVER PLATE MOUNTED VERTICAL AT 18" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED)
- QUADPLEX SPLIT WIRED RECEPTACLE MOUNTED AT 18" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED)
- QUADPLEX RECEPTACLE MOUNTED VERTICAL AT 18" AFF TO THE BOTTOM OF THE DEVICE BOX (TYPICAL UNLESS OTHERWISE NOTED)
- 208V SINGLE PHASE RECEPTACLE. ELECTRICAL CONTRACTOR SHALL VERIFY PLUG CONFIGURATION REQUIRED FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
- 208V MULTIPHASE RECEPTACLE. SHALL BE NEMA TYPE 6-30R UNLESS NOTED. ELECTRICAL CONTRACTOR SHALL VERIFY TYPE REQUIRED FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
- FLOOR BOX, TYPE 1 (REFER TO SPECS), MULTIPLE COMPARTMENT FLUSH FLOOR BOX TO ACCEPT BOTH POWER AND VOICE/DATA DEVICES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EXTEND DATA CONDUITS FROM BOX TO NEAREST CABLE TRAY.
- COMMUNICATIONS DEVICE BOX, 4-1/8" SQUARE BOX WITH SINGLE GANG DEVICE AND 3/4" CONDUITS RUN CONTINUOUSLY FROM BOX TO ABOVE ACCESSIBLE CEILING. MOUNT DEVICE BOX AT SAME HEIGHT AS NEAREST POWER RECEPTACLE BOX. UNLESS NOTED, IF UNLABELED, PROVIDE WITH BLANK COVER PLATE.
- PROXIMITY CARD READER ROUGH-IN LOCATED AT 35" AFF TO THE BOTTOM OF THE DEVICE BOX UNLESS OTHERWISE NOTED. COORDINATE ROUGH-IN BOX SIZE WITH OWNER'S SECURITY CONTRACTOR.
- SECURITY DOOR CONTACTS. THE ELECTRICAL CONTRACTOR SHALL INSTALL 10 3/4" CONDUIT TO THE DOOR FRAME FOR FUTURE DOOR CONTACTS. EXTEND CONDUIT TO NEAREST CABLE TRAY.
- TELECOMMUNICATIONS MAIN GROUNDING BAR. REFER TO SPECIFICATION.
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- ADA DOOR OPERATOR MOUNTED AT 44" AFF TO BOTTOM OF BOX. COORDINATE REQUIRED ROUGH-IN SIZE WITH DOOR HARDWARE PROVIDER.
- CLOCK: REFER TO SPECIFICATIONS FOR TYPE DIFFERENTIATION.
- SPEAKER: REFER TO SPECIFICATIONS FOR TYPE DIFFERENTIATION.
- VOLUME CONTROL, WALL MOUNTED AT 44" AFF TO BOTTOM OF DEVICE BOX.
- JUNCTION BOX, SIZE AND TYPE AS REQUIRED.
- LINE VOLTAGE THERMOSTAT FURNISHED BY OTHERS, WIRED AND INSTALLED BY E.C.
- SURVEILLANCE CAMERA TYPE 1 (PROVIDED BY OWNER). E.C. SHALL INSTALL 1/2" CONDUIT FORM A SINGLE GANG ROUGH-IN BOX IN THIS LOCATION TO NEAREST CABLE TRAY.
- 1/2" STEEL CONDUIT SLEEVE WITH FIRESTOP END CAP
- DUCT SMOKE DETECTOR REMOTE TEST SWITCH MOUNTED AT 44" AFF TO THE BOTTOM OF THE DEVICE BOX UNLESS OTHERWISE NOTED.



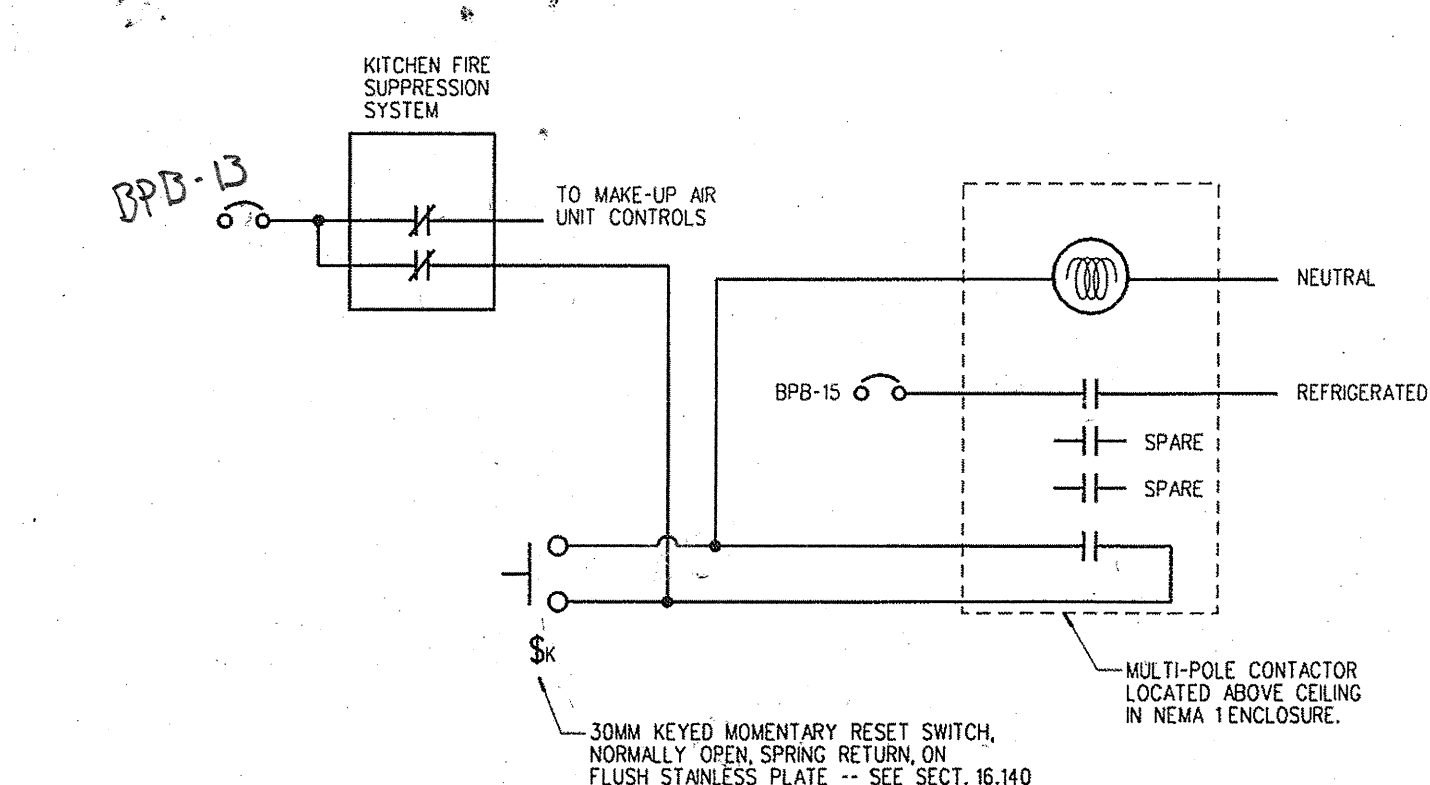
05 BOLLARD FOUNDATION  
NOT TO SCALE  
DET. 5-37



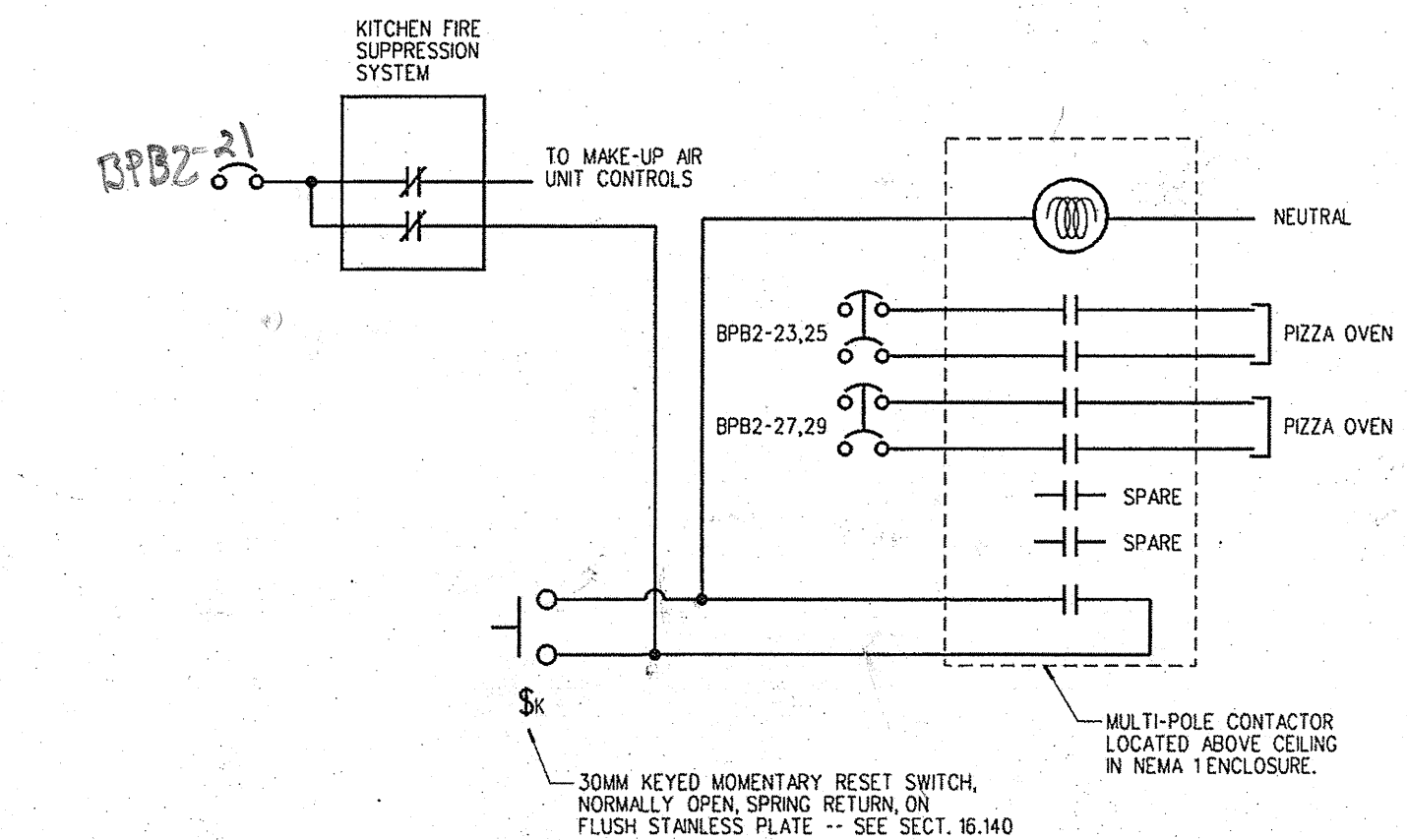
04 NINE 24 "BLTC-R" EMERGENCY LIGHTING BYPASS DEVICES  
NOT TO SCALE



03 KITCHEN EMERGENCY SHUT-OFF (ITEM 11)  
NOT TO SCALE



02 KITCHEN EMERGENCY SHUT-OFF (ITEM 83)  
NOT TO SCALE



01 KITCHEN EMERGENCY SHUT-OFF (ITEM 83)  
NOT TO SCALE