

REVISIONS				
SYM	DESCRIPTION	PREPARED BY	DATE	APPROVED

GENERAL NOTES

1. FOR SITE WORK LEGEND SEE SHEET ES1-1 AND ES2-1.  
FOR COMMUNICATION LEGEND SEE SHEET E-2.  
FOR POWER SINGLE LINE LEGEND AND NOTES SEE SHEET E-1.

2. PHASING SHALL BE COORDINATED AND IN COMPLIANCE WITH ALL PHASING DRAWINGS AND NOTES. PROVIDE ALL ELECTRICAL ITEMS AND CONNECTIONS TO ALL EQUIPMENT AS REQUIRED TO MAKE EACH PHASE FUNCTIONAL. COORDINATE ALL POWER OUTAGES WITH OWNER AND OBTAIN WRITTEN PERMISSION FROM OWNER NOT LESS THAN 24 HOURS IN ADVANCE.

3. ELECTRIC WATER COOLER RECEPTACLES INDICATED BY "EWC" SHALL BE LOCATED AS REQUIRED TO CONCEAL THE RECEPTACLE BEHIND THE WATER COOLER ASSEMBLY. COORDINATE WITH PLUMBING TRADE.

4. MOTOR CONTROL DEVICES FURNISHED IN PLACE BY MECHANICAL TRADE, BUT ELECTRICALLY CONNECTED BY ELECTRICAL TRADE.

5. FLEXIBLE CONDUIT INSTALLED OUT-OF-DOORS, IN ANY MECHANICAL EQUIPMENT ROOM, OR IN NORMALLY WET AREAS, SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.

6. COORDINATE WITH ALL MECHANICAL TRADES FOR SPACE REQUIREMENTS IN MECHANICAL ROOMS, CORRIDORS, SHAFTS, ABOVE CEILING, ETC. THIS INCLUDES SPACE ABOVE PANELS WHERE DUCTS AND PIPING ARE PROHIBITED.

7. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT, SEE MECHANICAL PLANS.

8. WHERE WALL SWITCHES AND CONTROL DEVICES SUCH AS THERMOSTATS ARE SHOWN AT THE SAME LOCATION IN PLAN VIEW (CONTROL DEVICES SUCH AS THERMOSTATS ARE SHOWN ON THE MECHANICAL DRAWINGS) THEY SHALL BE MOUNTED WITH THE CONTROL DEVICE DIRECTLY IN LINE ABOVE THE SWITCH.

9. THE LOCATION OF FIXTURES IN MECHANICAL ROOMS, ELECTRICAL ROOMS, MACHINE ROOMS, ETC. ARE SHOWN FOR BID PURPOSES ONLY. FIXTURES SHALL BE INSTALLED SO AS TO COORDINATE WITH ALL TRADES AND SHALL BE ARRANGED FOR MAXIMUM LIGHTING DISTRIBUTION OF THE AREA.

10. PROVIDE EXPANSION TYPE FITTINGS FOR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS. SEE ARCHITECTURAL DRAWNGS FOR EXPANSION JOINT LOCATIONS.

11. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

12. LAY-IN CEILING IN CORRIDOR IS FIRE RATED. LIGHT FIXTURES MUST BE COMPATIBLE WITH U.L. RATED CEILING DESIGN WHEN INSTALLED.

13. CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING HEIGHTS OF ALL DEVICES MOUNTED IN CASEWORK OR IN OR ABOVE COUNTERS WITH SPECIFIC EQUIPMENT FURNISHED.

14. OUTLET BOXES (RECEPTACLES, LIGHT SWITCHES, TELEPHONE, ETC.) OVER 10323 SQUARE mm IN SMOKE AND FIRE WALLS MUST BE FIVE SIDED WITH SAME CONSTRUCTION AS WALL SYSTEM. WHERE OUTLET BOXES ARE ON OPPOSITE SIDES OF A FIRE WALL THERE MUST BE A 610mm HORIZONTAL SEPARATION BETWEEN THEM. IF OUTLET BOXES ON PLANS ARE SHOWN AT EXISTING LOCATIONS IN FIRE WALLS BUT THERE IS LESS THAN 610mm OF SEPARATION THE CONTRACTOR SHALL RELOCATE ONE OR BOTH OUTLETS TO ACHIEVE THE MINIMUM 610mm OF SEPARATION REQUIRED.

15. DO NOT MOUNT OUTLETS BACK TO BACK. THEY MUST BE IN SEPARATE STUD SPACES.

16. BRANCH CIRCUITS AND HOMERUNS SHALL BE #12 WIRE AND 16mm CONDUIT MINIMUM. EVERY CONDUIT SHALL HAVE A GROUND WIRE (#12 MINIMUM).

17. NO MORE THAN THREE PHASE CONDUCTORS MAY BE INSTALLED IN ONE CONDUIT UNLESS NOTED OTHERWISE.

18. ALL NORMAL RECEPTACLES, SWITCHES, ETC. TO BE GRAY WITH STAINLESS STEEL PLATES UNLESS NOTED OTHERWISE. ALL RECEPTACLES AND LIGHT SWITCHES ON EMERGENCY POWER SHALL BE RED. ENGRAVE EMERGENCY RECEPTACLE PLATES WITH "EMERGENCY" IN 6mm HIGH RED LETTERS. IN CRITICAL CARE AREAS ALSO ENGRAVE EMERGENCY RECEPTACLE PLATES WITH PANEL AND CIRCUIT NUMBER.

19. PROVIDE BARRIERS BETWEEN ALL 277V SWITCHES MOUNTED UNDER THE SAME COVER PLATE WITH OTHER 277V SWITCHES ON DIFFERENT PHASES OR 120V SWITCHES.

20. MAINTAIN N.E.C. MINIMUM CLEARANCE IN FRONT OF ALL SAFETY SWITCHES, PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFER SWITCHES, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT. DETERMINE PROPER CLEARANCE BEFORE INSTALLATION. DIMENSIONS OF EQUIPMENT SHOWN ARE BASED ON A PARTICULAR MANUFACTURER. IF DIMENSIONS OF EQUIPMENT FURNISHED DIFFER FROM THOSE ON THE DRAWNGS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EQUIPMENT FITS IN THE ROOM OR SPACE ALLOCATED WITH PROPER CLEARANCE.

21. PRIOR TO ROUGH-IN CONTRACTOR TO PROVIDE SCALED WALL ELEVATIONS WHERE ALL ALARM CABINETS, SIGNAL CABINETS, ETC. ARE INSTALLED IN OTHER THAN MECHANICAL AND ELECTRICAL CLOSETS FOR APPROVAL.
22. NO CONDUIT SHALL PASS THROUGH ELEVATOR HOISTWAY OR ELEVATOR MACHINE ROOM UNLESS IT SPECIFICALLY SERVES EQUIPMENT IN THAT ROOM.

23. ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.

24. UNLESS NOTED OTHERWISE ALL MOTORS 1/2 HP (0.37 KW) AND LARGER SHALL BE 460V, THREE PHASE AND MOTORS SMALLER THAN 1/2 HP (0.37 KW) SHALL BE 120V, SINGLE PHASE.

25. CONDUIT FOR RECEPTACLE CIRCUITS AND OTHER POWER BRANCH CIRCUIT WIRING AS WELL AS COMMUNICATION SYSTEMS CONDUITS SHALL BE RUN OVERHEAD UNLESS NOTED OTHERWISE.

26. PROVIDE CONDUIT FOR OUTLET BOXES AS REQUIRED FOR THERMOSTATS. THERMOSTATS ARE SHOWN ON MECHANICAL DRAWINGS.

27. CONTRACTOR SHALL VERIFY AND COORDINATE ALL CONNECTIONS TO EQUIPMENT WITH SPECIFIC EQUIPMENT FURNISHED.

28. ALL ITEMS ON PLANS ARE NEW UNLESS NOTED OTHERWISE.

29. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AS HE WILL BE RESPONSIBLE FOR EXISTING CONDITIONS AS REQUIRED IN OTHER NOTES.

30. ALL RECEPTACLES BESIDE SINKS SHALL BE LOCATED AT LEAST 152mm HORIZONTALLY FROM THE TOWEL DISPENSER. UNDER NO CONDITION SHALL A RECEPTACLE BE LOCATED UNDER A TOWEL DISPENSER.

31. IN MANY CASES THROUGHOUT THE PLANS EQUIPMENT CONNECTIONS ARE IDENTIFIED ON THE PLANS WITH A LETTER AND A FOUR DIGIT NUMBER. EXAMPLE: R7000 IS A REFRIGERATOR. THE EQUIPMENT SCHEDULE AND ANY SPECIAL CONNECTION INFORMATION FOR THESE ITEMS IS SHOWN ON THE ARCHITECTURAL A3 SERIES OF SHEETS.

32. THE VERBIAGE "SEE TYPICAL" USED IN NOTES SHALL MEAN TO PROVIDE ALL ELECTRICAL ITEMS AS SHOWN IN THE REFERENCED TYPICAL ROOM.

33. ALL RECESSED MOUNTED PANELS SHALL HAVE FOUR 21mm EMPTY CONDUITS STUBBED ABOVE THE CEILING.

34. IN ALL ROOMS WITHOUT FINISHED CEILINGS INSTALL ALL ELECTRICAL CONDUITS AS CLOSE TO THE STRUCTURAL CEILING AS POSSIBLE.

35. CONNECTIONS TO MECHANICAL AND MEDICAL EQUIPMENT ARE BASED ON A PARTICULAR MANUFACTURER. IF CONNECTIONS TO EQUIPMENT DIFFER FROM THAT SHOWN ON THE DRAWINGS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONNECTIONS AS REQUIRED.

36. UNLESS NOTED OTHERWISE, THE CONDUIT SIZES SHOWN ON THE DRAWINGS FOR POWER AND LIGHTING ARE BASED ON THHN CONDUCTORS AND APPLY TO ALL TYPES OF CONDUIT EXCEPT FOR SCHEDULE 80 PVC. FOR SCHEDULE 80 PVC INCREASE CONDUIT SIZE BY ONE TRADE SIZE OVER THAT WHICH IS SHOWN ON THE DRAWINGS OR CALCULATE THE SIZE PER NATIONAL ELECTRICAL CODE. IF A DIFFERENT TYPE OF CONDUCTOR INSULATION IS USED RATHER THAN TYPE THHN THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING CONDUIT PER NEC BEFORE INSTALLATION. ANY INCREASE IN CONDUIT SIZES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

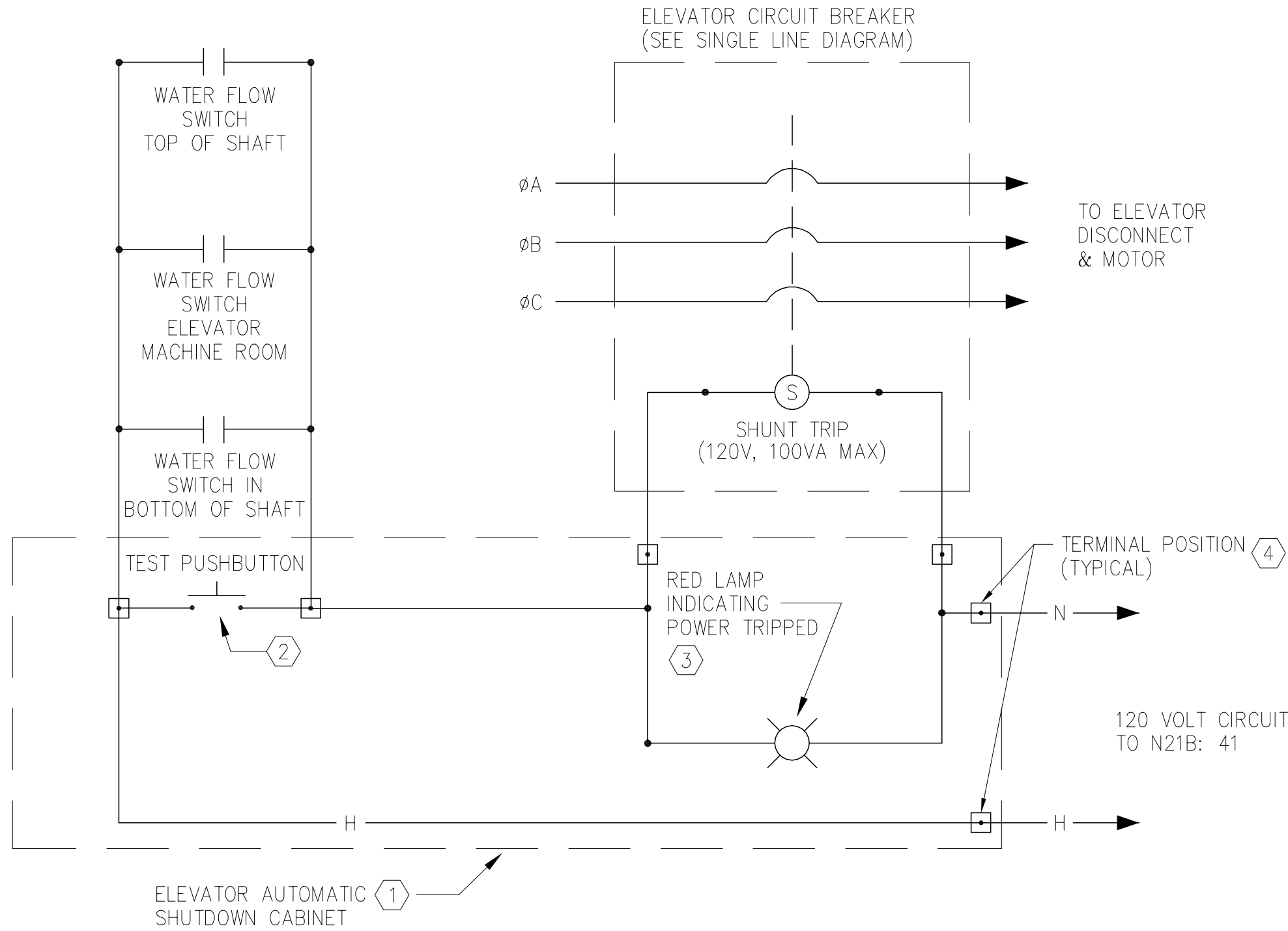
37. THIS PROJECT WAS DESIGNED UTILIZING THE EDITION OF THE CODES LISTED BELOW. (OTHER CODES WHICH WERE CURRENT AT THE TIME WERE ALSO UTILIZED); NFPA 20 – 1996, NFPA 70 – 1999, NFPA 72 – 1999, NFPA 101 – 1997, NFPA 110 – 1996, STANDARD BUILDING CODE – 1997.

38. REFER TO SHEETS M7-4 THROUGH M7-7 FOR VIBRATION ISOLATION AND SEISMIC SUPPORT FOR TRANSFORMERS, COMMUNICATION RACKS, SWITCHBOARDS, ETC.

39. PROVIDE HOSPITAL GRADE RECEPTACLES IN ALL EXAM ROOMS AND TREATMENT ROOMS.

40. SEE MECHANICAL SCHEDULE ON DRAWING FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT. COORDINATE WITH MANUFACTURER'S DATA IN OWNER APPROVED MECHANICAL EQUIPMENT SUBMITTAL SO TO ENSURE THAT THE BRANCH CIRCUITS-CONDUIT, WIRE AND OVERCURRENT PROTECTION ARE PROPERLY SIZED FOR THE MECHANICAL EQUIPMENT BEING INSTALLED. THE CONTRACTOR SHALL PROVIDE (AT NO ADDITIONAL COST TO OWNER) PROPERLY SIZED ELECTRICAL EQUIPMENT BASED ON THE MANUFACTURER'S DATA IN THE APPROVED MECHANICAL EQUIPMENT SUBMITTAL. THE CONTRACTING OFFICER MUST APPROVE ANY PROPOSED CHANGE IN THE BRANCH CIRCUITS-CONDUIT, WIRE AND OVERCURRENT PROTECTION APPROVE ANY PROPOSED CHANGE IN THE BRANCH CIRCUIT AND OVERCURRENT PROTECTION.

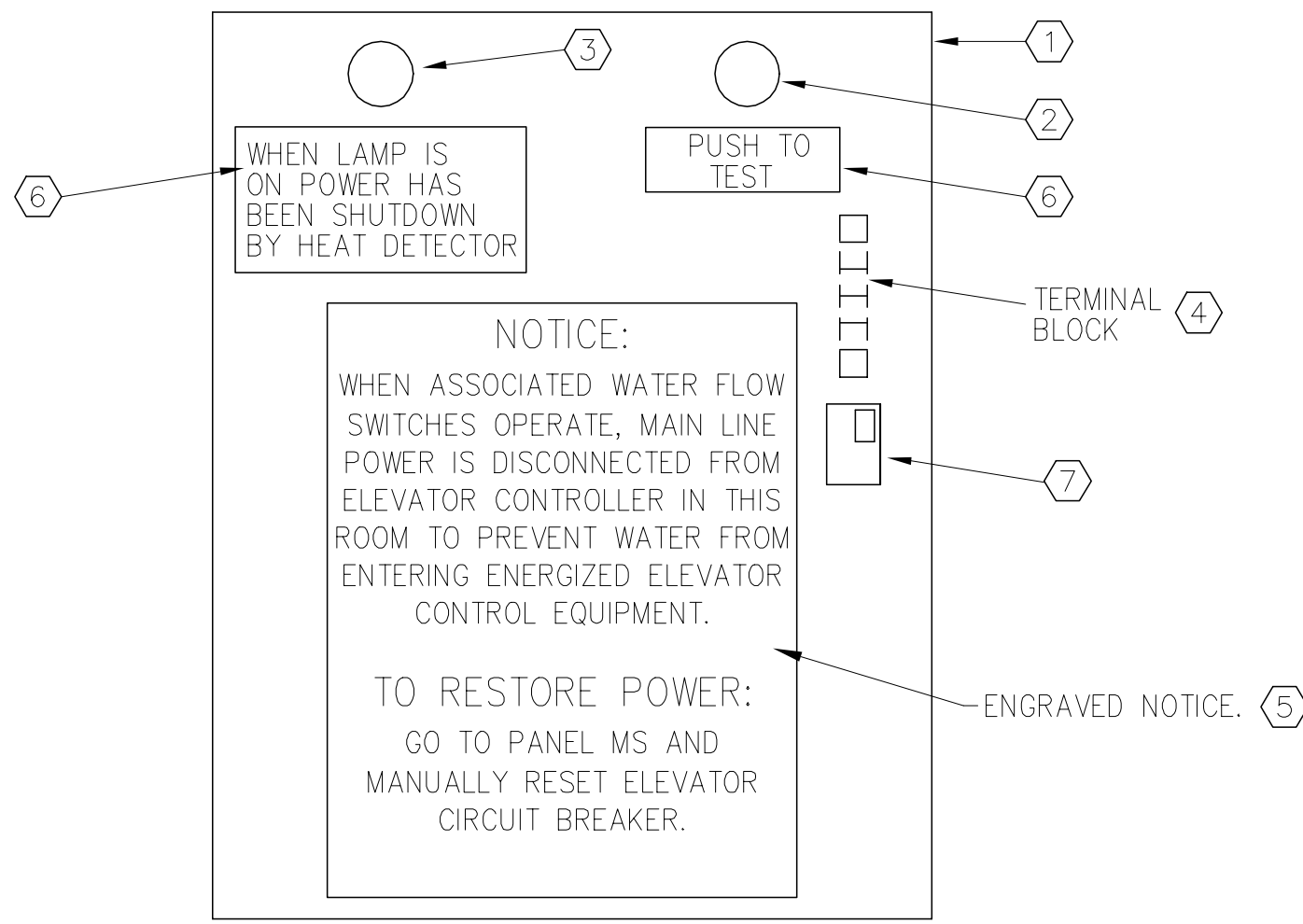
41. ALL ELECTRICAL AND COMMUNICATION SYSTEMS SHALL BE PROTECTED FOR SEISMIC ZONE 4, NON ESSENTIAL FACILITY. SEE NOTE 39 ABOVE.



WIRING DIAGRAM -  
ELEVATOR AUTOMATIC SHUTDOWN  
NOT TO SCALE

- NOTES:
1. ALL FIELD WIRING TO BE IN CONDUIT. CONDUCTORS SHALL BE #12 MINIMUM.

2. ATTACH REDUCED SIZE COPY OF THIS SHEET TO INTERIOR OF ENCLOSURE.



DETAIL - FACE OF ELEVATOR  
AUTOMATIC SHUTDOWN CABINET (EASC)  
NOT TO SCALE

- KEYED NOTES FOR "EASC"

1. 203mm H x 152mm W x 152mm D NEMA-1 ENCLOSURE WITH HINGED DOOR AND FLUSH LATCH. SEE DETAIL AT LEFT.

2. TEST PUSHBUTTON, 120V, 5A, MOMENTARY CONTACT, NORMALLY OPEN, IN COVER OF 1.

3. RED LAMP, 120V, LED TYPE, INDICATING POWER HAS BEEN SHUTDOWN WHEN ON, IN COVER OF 1.

4. TERMINAL BLOCK TO BE 8 POSITION, "JONES" BARRIER FOR TERMINAL BLOCK, RATED 15A, 120V MIN. MOUNTED IN 1.

5. WHITE BACKGROUND WITH BLACK 3mm HIGH TEXT LAMINATED NAMEPLATE. FASTEN TO DOOR COVER WITH 4 SCREWS.

6. WHITE BACKGROUND WITH BLACK 3mm HIGH LETTERING AS SHOWN, LAMINATED NAMEPLATE. FASTEN TO DOOR WITH 2 SCREWS.

7. KEYED DOOR HANDLE.
- GENERAL NOTES:

AUTOMATIC SHUTDOWN OF ELEVATORS BY SHUNT TRIP CIRCUIT BREAKERS

1. CLOSURE OF WATER FLOW SWITCH CONTACT WILL CAUSE ASSOCIATED SHUNT TRIP COILS TO OPERATE THE APPROPRIATE ELEVATOR CIRCUIT BREAKER, DISCONNECTING MAIN POWER TO ELEVATOR CONTROLLER.

2. SHUNT TRIP BREAKERS MUST BE MANUALLY RESET.

IF SHEET IS LESS THAN 28"x42", IT IS A REDUCED PRINT. SCALE REDUCED ACCORDINGLY.

E-3

MEDICAL/DENTAL CLINIC

GENERAL NOTES AND ELEVATOR  
SHUT DOWN DETAIL

SIZE	CODE IDENT. NO.	DRAWING NO.
F	XXXXX	8144758
SCALE:	AS SHOWN	SPEC. 11996048
CONST. CONTR. NO.		SHEET 253 OF 316