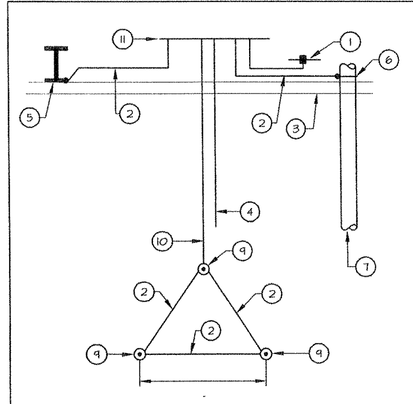
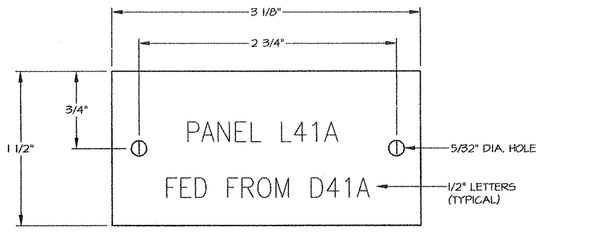


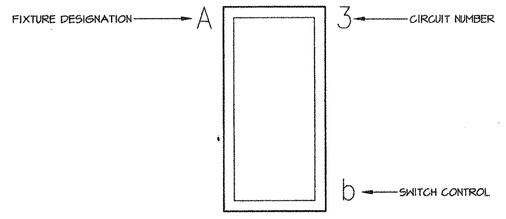
1	MAIN SWITCHBOARD GROUND BUS.
2	#4/0 BARE CU. GROUND CONDUCTOR IN 1 1/4 "CONDUIT.
3	BUILDING EXTERIOR WALL.
4	#4/0 BARE CU. GROUND CONDUCTOR IN CONCRETE ENCASEMENT TO XFMR PAD GROUNDING GRID.
5	STRUCTURAL STEEL EXOTHERMIC CONNECTION.
6	GROUNDING CLAMP ON METALLIC PIPE.
7	STREET SIDE OF WATER SERVICE PIPE.
8	NOT USED
9	3/4" X 10'-0" LONG COPPERWELD GROUND ROD DRIVEN WITH TOP 1'-0" BELOW GRADE.
10	500 KCMIL CU. GROUND CONDUCTOR IN 1 1/4 "CONDUIT.
11	BUILDING SYSTEM GROUND BUS

A1 NOT TO SCALE — **Electric Service Grounding Electrode Detail**



NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" THICK WHITE PLASTIC WITH BLACK CENTER LAMINATION. FACE SHALL BE WHITE, ENGRAVED LETTERS SHALL BE BLACK.
3. SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS. ADHESIVE CEMENT SHALL NOT BE ALLOWED.

B1 NOT TO SCALE — **Typical Nameplate Detail**



C1 NOT TO SCALE — **Typical Lighting Fixture Designation Detail**

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NFPA 70, NATIONAL ELECTRICAL CODE (NEC), OSHA REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF THE PERTINENT FEDERAL, STATE, COUNTY, AND CITY AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE, IES AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS THAT ARE U.L. LISTED AND LABELED.
2. THE ELECTRICAL SUBCONTRACTOR SHALL VISIT THE SITE AND INSPECT EXISTING CONDITIONS, SERVICES, CONDUITS, SPATIAL CONSIDERATIONS AND ALL OTHER PERTINENT CONDITIONS TO FULLY FAMILIARIZE HIMSELF WITH CONDITIONS TO BE ENCOUNTERED IN THE PERFORMANCE OF THIS WORK. THE ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION. FAILURE TO DO SO WILL NOT RELIEVE THE ELECTRICAL SUBCONTRACTOR OF THE RESPONSIBILITY FOR FULL COMPLETION OF THE WORK IN ACCORDANCE WITH APPLICABLE DRAWINGS AND SPECIFICATIONS. VERIFY EXISTING SYSTEMS THAT WILL BE UTILIZED FOR CONNECTION TO THE NEW SYSTEM. IF DISCREPANCIES EXIST BETWEEN THE CONTRACT DRAWINGS AND THE ACTUAL EXISTING CONDITIONS, THE ELECTRICAL SUBCONTRACTOR SHALL NOTIFY THE ENGINEER/OWNER PRIOR TO PROCEEDING WITH THE INSTALLATION.
3. CONDUIT RUNS ARE SHOWN DIAGRAMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING'S CONSTRUCTION AND OBSTRUCTIONS, EXCEPT WHERE OTHERWISE NOTED.
4. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE PROVIDED BY DIVISION 16, UNLESS NOTED AS FURNISHED WITH EQUIPMENT.
5. ALL PENETRATIONS THROUGH FIRE-RATED FLOORS, WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
6. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS WHICH CONTAIN FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED. CIRCUIT BREAKERS SUPPLYING POWER TO FIRE ALARM CONTROL PANELS SHALL ALSO BE PAINTED RED.
7. UNLESS OTHERWISE NOTED, WIRING SHALL BE 2 #12 AWG CONDUCTORS & #12 GND. HOME RUNS FED FROM 20A, SINGLE POLE CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG, UNLESS INDICATED OTHERWISE. INSULATION TYPE SHALL BE THHN/THWN, 75 DEG C, AND 600V CLASS UNLESS SPECIFIED OTHERWISE.
8. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE FLEXIBLE LIQUID TIGHT CONDUIT.
9. UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE 600V, COPPER WITH THHN-THWN INSULATION.
10. ALL GENERAL NOTES, SYMBOL LISTS, ABBREVIATIONS AND DETAILS ARE TO BE CONSIDERED APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT.
11. WHERE A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL PREVAIL. CONTACT THE ENGINEER FOR CLARIFICATION WHEN SUCH A SITUATION OCCURS.
12. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
13. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT AND DEVICES, AND FURNITURE REQUIREMENTS, PRIOR TO ROUGHING IN FOR SAME.
14. IN AREAS NOT AFFECTED BY THIS RENOVATION, THE ELECTRICAL SUBCONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING ELECTRICAL SERVICE.
15. PRIOR TO THE REMOVAL OF EQUIPMENT, THE OWNER WILL INDICATE WHICH EXISTING DEVICES OR MATERIALS SHALL BE SALVAGED AND TURNED OVER FOR STORAGE.
16. WHERE EXISTING EQUIPMENT AND DEVICES ARE TO BE RELOCATED, ALL ASSOCIATED WIRING, CONDUIT AND ACCESSORIES SHALL BE EXTENDED, RELOCATED OR REPLACED WHERE REQUIRED.
17. WHERE IT IS INDICATED THAT EXISTING WIRING IS TO BE REUSED, THE ELECTRICAL SUBCONTRACTOR SHALL VERIFY THAT THE INTEGRITY OF THE INSULATION IS ADEQUATE FOR REUSE. ALL SUSPECT WIRING SHALL BE REPLACED BY THE SUBCONTRACTOR.
18. ALL EXIT SIGNS AND NIGHT LIGHT (NL) FIXTURES ARE TO BE CONNECTED AHEAD OF THE BRANCH CIRCUIT, UNSWITCHED.
19. UNLESS OTHERWISE INDICATED, ALL RECEPTACLES AND TELE/DATA OUTLETS AND JACKS ARE TO BE HOSPITAL GRADE.
20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 480/277V 500KW TEMPORARY GENERATOR, TEMPORARY CONNECTIONS AND ALL FUEL REQUIRED FOR THIS PROJECT. THE TEMPORARY GENERATOR SHALL BE REQUIRED DURING THE 450 KW GENERATOR RADIATOR RELOCATION, 500 KW GENERATOR REMOVAL / REPLACEMENT WITH NEW 800 KW GENERATOR AND ASSOCIATED NEW EMERGENCY POWER DISTRIBUTION INSTALLATION.
21. ELECTRICAL CONTRACTOR SHALL PHASE WORK SUCH THAT NO UTILITY SERVICE OUTAGE EXCEEDS (5) HOURS IN DURATION. COORDINATE ALL UTILITY SHUTDOWNS WITH OWNER. CONTRACTOR TO ASSUME ALL SCHEDULED UTILITY SHUT DOWNS TO BE DURING PREMIUM TIME HOURS AND CARRY ALL ASSOCIATED COSTS IN BASE BID.
22. ELECTRICAL CONTRACTOR SHALL PROVIDE AUTOMATIC TRANSFER SWITCH BIDS FROM BOTH MANUFACTURER'S LISTED IN SPECIFICATATION.

FIRE ALARM SYSTEM NOTES

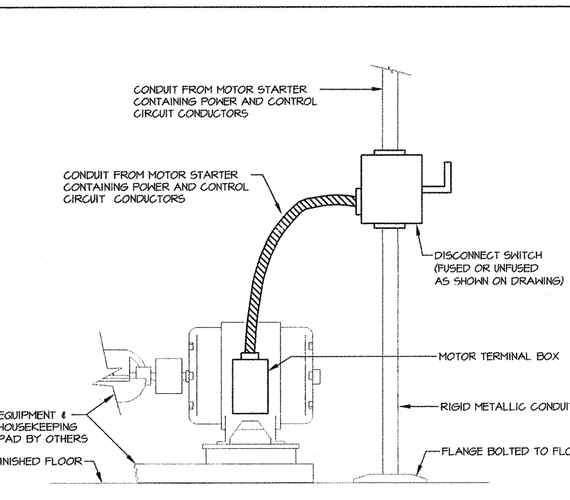
1. MODIFY THE EXISTING SIMPLEX MAIN FIRE ALARM CONTROL PANEL TO ACCOMMODATE THE NEW DEVICES INDICATED. PROVIDE NEW ZONES (IDENTIFY AS REQUIRED). NEW CONTACTS, ADDITIONAL POWER SUPPLIES AND ALL OTHER ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
   a. PROVIDE NEW SMOKE DETECTORS WHERE INDICATED.
   b. PROVIDE NEW FIRE ALARM HORN/STROBES WHERE INDICATED.
   c. PROVIDE NEW FIRE ALARM STROBES WHERE INDICATED.
   d. PROVIDE NEW FIRE ALARM PULL STATIONS WHERE INDICATED.
2. REFER TO FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES ASSOCIATED WITH FIRE PROTECTION SYSTEMS.

LIGHTING FIXTURE NOTES

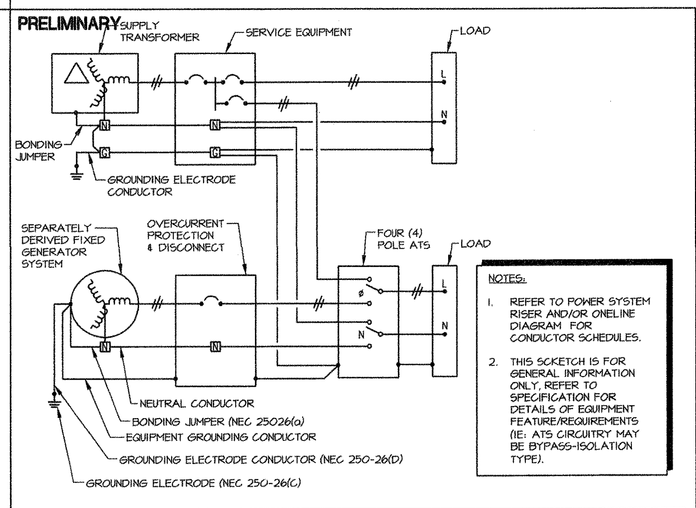
1. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET JOB REQUIREMENTS.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE MOUNTING AND LOCATION AGAINST PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF ALL FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHING IN.
3. SERIES FIXTURES SHALL SATISFY LENGTHS AS SHOWN ON THE DRAWINGS.
4. FIXTURE LETTERS SHOWN ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE NOTED.
5. ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILINGS.
6. ALL INCANDESCENT LAMPS SHALL BE RATED 120 VOLTS UNLESS OTHERWISE SPECIFIED.
7. ALL FLUORESCENT LAMPS SHALL BE ENERGY SAVING TYPE. GENERAL ELECTRIC F32 T8 OR APPROVED EQUAL.
8. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS - UL. APPROVED AS A COMBINATION WITH ENERGY SAVING LAMPS SUPPLIED.
9. ALL FLUORESCENT LAMPS ARE TO BE STANDARD COOL WHITE COLOR, 4100K UNLESS OTHERWISE SPECIFIED.

ADD / ALTERANTES:

1. PROVIDE AN ADD/ALTERNATE PRICE FOR THE REPLACEMENT OF EXISTING MOTOR CONTROL CENTER MCC-1 WITH NEW PANEL MP4.
2. PROVIDE AN ADD / ALTERNATE PRICE FOR A NEW POWER MONITORING SYSTEM FOR ALL NEW SWITCHBOARDS, DISTRIBUTION PANELS, TRANSFER SWITCHES, & GENERATOR MONITORING TO MEET JOINT COMMISSION REQUIREMENTS. AS PART OF THIS PROJECT. REFER TO SPECIFICATION SECTIONS 16215 & 16216

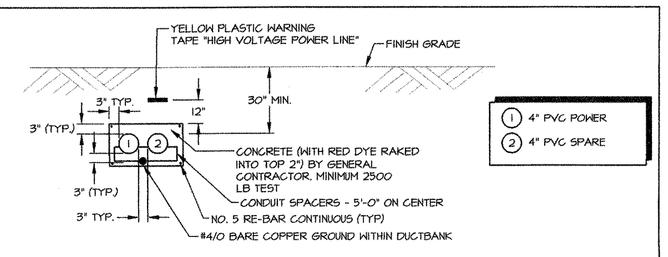


D1 NOT TO SCALE — **Motor Disconnect Switch Mounting Detail**



NOTES:
1. REFER TO POWER SYSTEM RISER AND/OR ONELINE DIAGRAM FOR CONDUCTOR SCHEDULES.
2. THIS SCKETCH IS FOR GENERAL INFORMATION ONLY. REFER TO SPECIFICATION FOR DETAILS OF EQUIPMENT FEATURE/REQUIREMENTS (IE: ATS CIRCUITRY MAY BE BYPASS-ISOLATION TYPE).

D2 NOT TO SCALE — **Separately Derived Generator System**



NOTES:
1. STEEL REINFORCING RODS SHALL BE INTERFACED WITH BUILDING FOUNDATION AND MANHOLE WALLS TO MINIMIZE SHEARING.

D3 NOT TO SCALE — **Ductbank Section**

LEGEND

SYMBOL	DESCRIPTION	MOUNT. HEIGHT
SD	DUCT SMOKE DETECTOR	-
RI	DUCT TYPE SMOKE DETECTOR REMOTE INDICATOR AND TEST STATION	-
MM	FIRE ALARM SYSTEM MONITOR MODULE	-
CM	FIRE ALARM SYSTEM CONTROL MODULE	-
SYSM	FIRE ALARM SYSTEM SYNCHRONIZATION CONTROLLER MODULE	-
FS	SPRINKLER SYSTEM WATER FLOW SWITCH	-
TS	SPRINKLER SYSTEM VALVE TAMPER SWITCH	-
K	KNOX BOX	48" AFF
B	FIRE ALARM SYSTEM EXTERIOR RED BEACON	AS NOTED
DH	MAGNETIC DOOR HOLDER/CLOSER	AS REQUIRED
AMP	SOUND SYSTEM SUB-AMPLIFIER	-
VC	VOLUME CONTROL SWITCH - WALL MOUNTED	48" AFF
SP	WALL MOUNTED LOUD SPEAKER	-
VC SP	SPEAKER-CEILING MOUNTED, "VC" INDICATES WITH VOLUME CONTROL	-
SP-H	SPEAKER-WALL MOUNTED	-
SP-H	WALL MOUNTED, BI-DIRECTIONAL PAGING SPEAKER	-
CMP	CENTRAL MAINE POWER	-
G.C.	GENERAL CONTRACTOR	-
M.C.	MECHANICAL CONTRACTOR	-
E.C.	ELECTRICAL CONTRACTOR	-
GFI	GROUND FAULT CIRCUIT INTERRUPTER	-
AFF	ABOVE FINISHED FLOOR	-
AFG	ABOVE FINISHED GRADE	-
TP	TAMPER PROOF	-
WP	WEATHERPROOF (NEMA 3R ENCLOSURE)	-
GND, G	GROUND	-
ATS	AUTOMATIC TRANSFER SWITCH	-
EM	EMERGENCY	-
ATC	AUTOMATIC TEMPERATURE CONTROL	-
NL	INDICATES NIGHT LIGHT FIXTURE TO BE CONNECTED TO UNSWITCHED SOURCE, ENERGIZED 24 HOURS A DAY	-
(XR)	EXISTING TO BE DISCONNECTED AND REMOVED	-
(XM)	EXISTING TO REMAIN	-
(XRE)	EXISTING TO BE DISCONNECTED AND RELOCATED	-
(XRC)	EXISTING TO BE REGRIGUTED	-
(XN)	EXISTING TO BE REPLACED WITH NEW	-
(XP)	EXPLOSION PROOF	-
(N)	NEW	-

JUNCTION BOX IDENTIFICATION COLOR CODE CHART

FIRE ALARM	-	RED
SIGNAL (NURSE CALL, PA)	-	PURPLE
AUDIO VISUAL	-	WHITE
480V	-	BROWN
277V	-	YELLOW
120V	-	BLUE
208V	-	BLACK
EMERGENCY POWER		ORANGE

LEGEND

SYMBOL	DESCRIPTION	MOUNT. HEIGHT
A 2	CEILING OUTLET AND 2' x 4' FLUORESCENT LIGHTING FIXTURE TYPE 'A', CONTROLLED BY SWITCH 'a' AND CONNECTED TO CIRCUIT NUMBER '2'	-
	CEILING OUTLET AND 2' x 2' FLUORESCENT LIGHTING FIXTURE	-
	CEILING OUTLET AND FLUORESCENT LIGHTING FIXTURE	-
	WALL PACK	-
	FLUORESCENT CHANNEL/STRIP LIGHT, SUSPENDED, CHAIN-HUNG	-
	CEILING OUTLET AND INCANDESCENT/H.I.D./FLUORESCENT LIGHTING FIXTURE	-
	WALL OUTLET AND INCANDESCENT/H.I.D./FLUORESCENT LIGHTING FIXTURE	-
	CEILING PENDANT	-
	WALL SCONCE	-
	EXIT LIGHT FIXTURE, CEILING AND WALL MOUNT RESPECTIVELY. SHADING INDICATES DIRECTION OF FACE(S). DIRECTIONAL ARROWS AS INDICATED ON PLANS.	84" AFF
TC	TIME CLOCK	
T	TIMER	
LC	LIGHTING CONTACTOR	-
S_D	SINGLE POLE, 20 AMP, TOGGLE SWITCH CONTROLLING LIGHTS 'a'	48"-AFF
S^3	THREE WAY SWITCH (20 AMP)	48" AFF
S^4	FOUR WAY SWITCH (20 AMP)	48" AFF
S^D	DIMMER SWITCH	48" AFF
S^E	EMERGENCY SHUT-OFF SWITCH	72" AFF
S_M	MANUAL MOTOR STARTER (THERMAL OVERLOAD SWITCH)	-
S^P	TOGGLE SWITCH WITH PILOT LIGHT (20 AMP)	
S_K	KEYED TOGGLE SWITCH (20 AMP)	
S(1)	OCCUPANCY SENSOR (1) NORMAL ANGLE , (2) WIDE ANGLE, (3) 360° COVERAGE	48" AFF 48" AFF
D	DIMMABLE OCCUPANCY SENSOR	48" AFF 48" AFF
	DUPLEX RECEPTACLE 20AMP, 125VOLT CONNECTED TO CIRCUIT #3, NORMAL POWER	18" AFF
	DUPLEX RECEPTACLE MOUNTED AT COUNTER HEIGHT	6" ABOVE COUNTER OR 42" AFF
	QUADRAPLEX RECEPTACLE	18" AFF
TP	TAMPERPROOF DUPLEX RECEPTACLE	18" AFF
	POWER RECEPTACLE AS NOTED ON PLAN	18" AFF
	DUPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.	18" AFF
	QUADRAPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.	18" AFF
	RETRACTABLE QUAD OUTLET FROM CEILING MOUNTED JUNCTION BOX	-
F	SPECIAL PURPOSE RECEPTACLE AS INDICATED ON PLANS (REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE)	-
TV	TELEVISION OUTLET WITH 3/4" CONDUIT WITH PULL STRING STUBBED UP TO CEILING SPACE	AS NOTED
W	4"X4" SINGLE GANG TELEPHONE OUTLET AND 3/4" CONDUIT WITH PULL STRINGS STUBBED INTO CEILING SPACE, 'H' DENOTES WALL MOUNTED 5' AFF	18" AFF
	4"x4" SINGLE GANG DATA OUTLET WITH 1" CONDUIT AND PULL STRING	18" AFF
	4"x4" COMBINATION TELEPHONE/DATA OUTLET WITH 1" CONDUIT AND PULL STRING STUBBED 6" INTO CEILING SPACE	18" AFF
	HOMERUN TO PANELBOARD 'CP1', CONNECTED TO CIRCUIT NUMBER '1'	-
	FLEXIBLE CONNECTION (3/4" 'SEALTITE' UNLESS NOTED OTHERWISE)	-
VFD	VARIABLE FREQUENCY DRIVE	-
* CP	CONTROL PANEL	-
*	MOTOR - NUMERAL DENOTES HORSEPOWER	-
	FUSED DISCONNECT SWITCH - 60 AMP SWITCH WITH 45 AMP TIME DELAY FUSES	-
	UNFUSED DISCONNECT SWITCH - 60AMP SWITCH NON FUSED	-
	COMBINATION MOTOR STARTER	-
SB	SPLICE BOX	48" AFF
PB	PULL BOX - SIZE PER ELECTRIC CODE	-
L	LEAK DETECTION SYSTEM DEVICE (PROVIDED BY OTHERS, CIRCUITING BY E.C.)	-
M	MOTORIZED DAMPER (PROVIDED BY OTHERS, CIRCUITING BY E.C.)	-
J	JUNCTION BOX - CEILING AND WALL MOUNTED RESPECTIVELY	-
J	JUNCTION BOX - CEILING AND WALL MOUNTED RESPECTIVELY	
J	JUNCTION BOX WITH CONNECT TO DEVICE	
S	FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR.	-
H	FIRE ALARM SYSTEM COMBINATION 135°F FIXED TEMPERATURE/ RATE OF RISE HEAT DETECTOR. 'F' INDICATES 190°F FIXED TEMPERATURE.	-
FACP	FIRE ALARM CONTROL PANEL	6' TO TOP
FAA	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL	6' TO TOP
F	FIRE ALARM SYSTEM DUAL ACTION MANUAL PULL STATION	48" AFF
F	FIRE ALARM SYSTEM COMBINATION HORN/ADA APPROVED STROBE LIGHT SIGNAL UNIT	†
	FIRE ALARM SYSTEM ADA APPROVED STROBE LIGHT SIGNAL UNIT	†
F	FIRE ALARM SYSTEM COMBINATION CHIME/ADA APPROVED STROBE LIGHT SIGNAL UNIT	-

* INDICATES DEVICE TO BE FURNISHED BY OTHERS BUT INSTALLED AND/OR WIRED BY THE ELECTRICAL CONTRACTOR.

† AUDIO AND VISUAL ALARM DEVICES SHALL BE MOUNTED 80" ABOVE FINISHED FLOOR OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER.

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Generator MV Gear Replacement

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CONSULTANT:

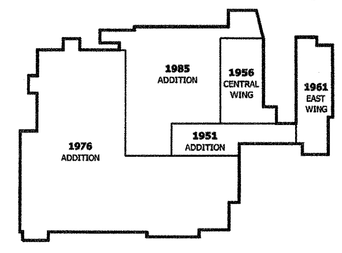
ISSUE:

LETTER:	DATE:	DESCRIPTION:
A	05/08/09	100% OWNER REVIEW SET
B	08/13/09	ISSUED FOR BID

REVISION:

NO:	DATE:	DESCRIPTION:

KEY PLAN:



DRAWING TITLE:
SCHEDULES, SYMBOLS AND ABBREVIATIONS

DRAWN BY: MEB	SEAL:
CHECKED BY: AG	
SCALE: AS NOTED	
PROJECT NO.: 093274.00.E	

DRAWING NO.:
E-001

CAD FILE NAME:
R:\Dwg - Engineering\093274.00.E MMC - Generator - MV Gear Replacement\Project\Sheets\Drawing Set\Electrical\E-001.dwg

Monday, August 31, 2009 - 1:36:08 PM - mbenner