

DISTRIBUTION PANEL MDP
208/120 VOLT-3 PHASE-4 WIRE
100 AMPERE MAIN LUG ONLY
SURFACE MOUNTED ENCLOSURE
IAC-22,000 A.I.C. SYM.

CKT. NO.	SERVING	CIRCUIT BREAKER P. FRAME TRIP	NOTES
1	RTU-1 (FUTURE)	3 400 400	
2	RTU-2 (FUTURE)	3 400 400	
3	FAN No. 1	3 100 20	
4	FAN No. 2	3 100 15	
5	WELDER RECEPTACLE	2 100 50	
6	SPACE	3 100	
7	SPACE	3 100	
8	SPACE	3 100	
9	SPACE	3 250	
10	PANEL LP	3 250 200	CURRENT LIMITING
11	PANEL RP1	3 100 100	CURRENT LIMITING
12	SPACE	3 250	

PANEL LP
208/120 VOLT-3 PHASE-4 WIRE
100 AMPERE MAIN LUG ONLY
SURFACE MOUNTED ENCLOSURE
IAC-10,000 A.I.C. SYM.

CKT. NO.	SERVING	BREAKERS POLE AMP	CKT. NO.	SERVING	BREAKERS POLE AMP
1	LIGHTING	1 20	2	FAN No. 3	1 20
3	SPACE	1 20	4	ATC PANEL	1 20
5	SPACE	1 20	6	SPACE	1 20
7	SPACE	1 20	8	SPACE	1 20
9	SPACE	1 20	10	SPACE	1 20
11	SPACE	1 20	12	SPACE	1 20
13	SPACE	1 20	14	SPACE	1 20
15	SPACE	1 20	16	SPACE	1 20
17	SPACE	1 20	18	SPACE	1 20
19	SPACE	1 20	20	SPACE	1 20
21	SPACE	1 20	22	SPACE	1 20
23	SPACE	1 20	24	SPACE	1 20
25	SPACE	1 20	26	SPACE	1 20
27	SPACE	1 20	28	SPACE	1 20
29	SPACE	1 20	30	SPACE	1 20
31	SPACE	1 20	32	SPACE	1 20
33	SPACE	1 20	34	SPACE	1 20
35	SPACE	1 20	36	SPACE	1 20
37	SPACE	1 20	38	SPACE	1 20
39	SPACE	1 20	40	SPACE	1 20
41	SPACE	1 20	42	SPACE	1 20

PANEL RP1
208/120 VOLT-3 PHASE-4 WIRE
100 AMPERE MAIN LUG ONLY
SURFACE MOUNTED ENCLOSURE
IAC-10,000 A.I.C. SYM.

CKT. NO.	SERVING	BREAKERS POLE AMP	CKT. NO.	SERVING	BREAKERS POLE AMP
1	SPACE	1 20	2	RECEPTACLES	1 20
3	SPACE	1 20	4	RECEPTACLES	1 20
5	SPACE	1 20	6	SPACE	1 20
7	SPACE	1 20	8	SPACE	1 20
9	SPACE	1 20	10	SPACE	1 20
11	SPACE	1 20	12	SPACE	1 20
13	SPACE	1 20	14	SPACE	1 20
15	SPACE	1 20	16	SPACE	1 20
17	SPACE	1 20	18	SPACE	1 20
19	SPACE	1 20	20	SPACE	1 20
21	SPACE	1 20	22	SPACE	1 20
23	SPACE	1 20	24	SPACE	1 20
25	SPACE	1 20	26	SPACE	1 20
27	SPACE	1 20	28	SPACE	1 20
29	SPACE	1 20	30	SPACE	1 20
31	SPACE	1 20	32	SPACE	1 20
33	SPACE	1 20	34	SPACE	1 20
35	SPACE	1 20	36	SPACE	1 20
37	SPACE	1 20	38	SPACE	1 20
39	SPACE	1 20	40	SPACE	1 20
41	SPACE	1 20	42	SPACE	1 20

GENERAL NOTES - ELECTRICAL WORK

- DRAWINGS SHALL NOT BE SCALED
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ALL OTHER DRAWINGS AND SPECIFICATIONS SHALL BE CONSULTED AND COORDINATED WITH PRIOR TO ROUGH-IN.
- WHEREVER POSSIBLE, THE CONTRACTOR SHALL OBTAIN ACTUAL ROUGH-IN DRAWINGS FOR THE ACTUAL ITEM OF EQUIPMENT TO BE INSTALLED PRIOR TO ROUGH-IN. THIS SHALL APPLY TO ALL EQUIPMENT, WHETHER IT IS TO BE INSTALLED BY THE CONTRACTOR OR BY THE OWNER.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT ALL NEW ELECTRICAL WORK TO BE INSTALLED IN FINISHED AREAS, AS DESCRIBED IN SPECIFICATION DIVISION 16000, BE INSTALLED CONCEALED WITHIN NEW OR EXISTING WALLS, FLOORS, OR CEILINGS. ANY AND ALL CUTTING AND PATCHING OF SURFACES SHALL BE REQUIRED BY THE CONTRACTOR IN HIS BID. NO SUBSEQUENT ALLOWANCE WILL BE MADE FOR CUTTING AND PATCHING WORK WHICH MAY BE REQUIRED UNDER THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS TO DETERMINE WHICH WALLS ARE NEW AND WHICH WALLS ARE TO REMAIN. EXISTING WALLS SHALL BE PATCHED READY TO RECEIVE NEW FINISHES WHERE APPLICABLE, OR SHALL BE PATCHED TO MATCH SURROUNDING SURFACES WHERE NEW FINISHES ARE NOT INDICATED. ALL PATCHING SHALL BE DONE TO THE COMPLETE SATISFACTION AND APPROVAL OF THE ARCHITECT. SURFACE METAL RACEWAYS SHALL BE PERMITTED IN FINISHED AREAS ONLY WHERE SPECIFICALLY APPROVED IN THE FIELD BY THE ARCHITECT.
- PRIOR TO PURCHASE AND INSTALLATION OF ANY MOTOR CONTROL EQUIPMENT (STARTERS, ETC.), THE CONTRACTOR SHALL VERIFY THE ACTUAL MOTOR ELECTRICAL CHARACTERISTICS. IN PARTICULAR STARTER OVERLOADS SHALL BE SIZED IN ACCORDANCE WITH ACTUAL MOTOR RUNNING LOAD AMPERES.

GENERAL NOTES - FIRE ALARM SYSTEM

- ALL FIRE ALARM SYSTEM WIRING SHALL BE RUN IN RACEWAY REFER TO SPECIFICATIONS FOR RACEWAY TYPE.
- FIRE ALARM SYSTEM WIRING QUANTITIES, SIZES AND ROUTING SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS AND REQUIREMENTS OF THE FIRE ALARM SYSTEM MANUFACTURER, EXCEPT WHERE MINIMUM SIZES ARE INDICATED. NOTHING ON THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED SO AS TO CONTRADICT THE FIRE ALARM SYSTEM MANUFACTURER'S INSTRUCTIONS.
- THE MINIMUM FIRE ALARM SYSTEM WIRE SIZE SHALL BE #14 AWG FOR INDICATING CIRCUITS AND #18 AWG FOR INITIATING AND ANNUNCIATION CIRCUITS. THE MINIMUM CONDUIT SIZE SHALL BE 3/4".
- NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH THE FIRE ALARM SYSTEM AND ITS AUXILIARY FUNCTIONS SHALL BE PERMITTED IN FIRE ALARM RACEWAYS.
- ALL FIRE ALARM SYSTEM JUNCTION BOXES, ETC. SHALL BE PAINTED RED AND SHALL BE NEATLY STENCILED IN BLACK LETTERS "FIRE ALARM".
- THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL CEILING MOUNTED DEVICES WITH ALL NEW AND EXISTING LIGHTING FIXTURES, AIR DIFFUSERS, REGISTERS, SPRINKLER HEADS AND OTHER CEILING FIXTURES, ETC.
- THE NEW FIRE ALARM DEVICES SHALL BE INTERFACED TO BOTH THE EXISTING FIRE ALARM SYSTEM AND THE EXISTING SPRINKLER SYSTEM SO THAT AN ALARM ON ANY SYSTEM WILL CAUSE ALL SYSTEMS TO SOUND AN EVACUATION ALARM, AND THAT TROUBLE ON ANY SYSTEM WILL ANNUNCIATE PROPERLY ON THE BUILDING GRAPHIC ANNUNCIATOR PANELS.

GENERAL NOTES - ELECTRICAL DEMOLITION

- ANY EXISTING ELECTRICAL WORK SHOWN ON THESE DRAWINGS IS INDICATED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE OWNER, ARCHITECT AND ENGINEER IN NO WAY WARRANT OR GUARANTEE EITHER THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. FINAL LOCATIONS AND QUANTITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
- THE EXTENT OF ELECTRICAL DEMOLITION SHALL BE AS GENERALLY NOTED ON THE DRAWINGS. SHOULD THERE BE ANY QUESTION AS TO THE DISPOSITION OF ANY EXISTING ELECTRICAL WORK, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE FINAL DISPOSITION OF SUCH WORK SHALL BE AS DIRECTED BY THE ARCHITECT AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL COST TO THE OWNER.
- WHEREVER EXISTING ELECTRICAL WORK IS INDICATED TO BE REMOVED, THE FOLLOWING NOTES SHALL APPLY:
 - ALL EXISTING WIRING SHALL BE REMOVED BACK TO ITS SOURCE.
 - ALL EXISTING CONDUIT WHICH IS EXPOSED, OR WHICH BECOMES EXPOSED AT ANY TIME DURING CONSTRUCTION SHALL BE REMOVED IN ITS ENTIRETY. CONDUIT STUBS THROUGH THE FLOOR SHALL BE CUT OFF FLUSH WITH THE FLOOR SLAB, FILLED WITH CONCRETE, AND MADE READY TO ACCEPT NEW FLOOR FINISHES WHERE APPLICABLE.
 - CONDUIT WHICH REMAINS CONCEALED WITHIN WALLS OR SLABS SHALL BE ABANDONED IN PLACE AFTER REMOVAL OF ALL WIRING.
 - WHEREVER EXISTING FLUSH MOUNTED BOXES WILL REMAIN EXPOSED, FURNISH AND INSTALL BLANK COVERPLATES ON THE EXISTING OUTLET BOXES.
 - ALL SURFACES WHICH ARE DISTURBED BY DEMOLITION UNDER THIS DIVISION SHALL BE PATCHED WITH MATERIALS TO MATCH THE EXISTING SURFACE. PATCHING SHALL MATCH THE EXISTING SURROUNDING SURFACES, AND SHALL BE DONE TO THE COMPLETE SATISFACTION OF THE ARCHITECT.
- PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT FROM THE PROJECT, THE CONTRACTOR SHALL DETERMINE WHETHER THE OWNER WISHES TO RETAIN THE MATERIAL. SHOULD THE OWNER DESIRE TO RETAIN AN ITEM, IT SHALL BE MOVED, BY THE CONTRACTOR, TO THE LOCATION ON SITE DIRECTED BY THE OWNER. SHOULD THE OWNER NOT DESIRE TO RETAIN THE ITEM, IT SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

ELECTRICAL ABBREVIATIONS

- A AMPERE(S)
- A.F.F. ABOVE FINISHED FLOOR
- A.I.C. AMPERES INTERRUPTING CAPACITY
- AWG AMERICAN WIRE GAUGE
- BGE BALTIMORE GAS AND ELECTRIC COMPANY
- C CONDUIT
- CB CIRCUIT BREAKER
- CKT. CIRCUIT
- CLG. CEILING
- C.T. CURRENT TRANSFORMER
- DWG. DRAWING
- E.C. EMPTY CONDUIT
- EX. EXISTING
- FDR FEEDER
- FL FLOOR
- FLA FULL LOAD AMPERES
- FSS FUSED SAFETY SWITCH
- FVNR FULL VOLTAGE NON REVERSIBLE
- GRD. GROUND
- HZ. HERTZ
- Isc IRMS CURRENT INTERRUPTING CAPACITY (RMS SYMMETRICAL AMPERES)
- KCMIL THOUSAND CIRCULAR MILLS
- KV KILOVOLTS
- KVA KILO-VOLT-AMPERES
- KW KILOWATTS
- LRA LOCKED ROTOR AMPERES
- MCB MAIN CIRCUIT BREAKER
- MH MOUNTING HEIGHT
- MISC. MISCELLANEOUS
- MLO MAIN LUGS ONLY
- MT. MOUNT
- MTD. MOUNTED
- MTG. MOUNTING
- N. NEUTRAL
- NEC NATIONAL ELECTRICAL CODE
- NIC NOT IN CONTRACT
- No. NUMBER
- NTS NOT TO SCALE
- Ø PHASE
- P POLE
- PNL PANELBOARD
- PVC POLYVINYL CHLORIDE
- REQ'D REQUIRED
- RLA RUNNING LOAD AMPERES
- RMS ROOT MEAN SQUARE
- Rx REMOVE EXISTING
- SEC SECONDARY
- S/N SOLID NEUTRAL
- SWBD SWITCHBOARD
- SYM SYMMETRICAL
- TYP. TYPICAL
- UG UNDERGROUND
- UNO UNLESS NOTED OTHERWISE
- V VOLTS
- VA VOLT-AMPERE
- W WIRE, WATTS
- W/M WIREMOLD
- XFMR TRANSFORMER

ELECTRICAL LEGEND

- LIGHTING FIXTURE
- LIGHTING FIXTURE, WALL MOUNTED
- ⊕ EMERGENCY BATTERY TYPE LIGHTING FIXTURE, WALL MOUNT AT 7'-6" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ EXIT SIGN, SINGLE FACE; CEILING MOUNTED; WALL MOUNT AT 7'-6" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ EXIT SIGN, DOUBLE FACE; CEILING MOUNTED; WALL MOUNT AT 7'-6" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ EXIT SIGN, AS ABOVE, WITH DIRECTIONAL ARROWS
- ⊕ SINGLE POLE SWITCH, MOUNT AT 48" A.F.F. U.N.O.
- ⊕ THREE WAY SWITCH, MOUNT AT 48" A.F.F. U.N.O.
- ⊕ LOW VOLTAGE CONTROL MOMENTARY CONTACT SWITCH WITH PILOT LIGHT, MOUNT AT 48" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ MANUAL MOTOR STARTING SWITCH
- ⊕ SWITCH WITH PILOT LAMP
- ⊕ 125V-20A DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R, MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
- ⊕ 125V-20A DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R, MOUNT AT 9" ABOVE COUNTER-TOP HEIGHT NOTED ON PLANS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ANY CABINETWORK, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CABINETWORK DETAILS.
- ⊕ WP RECEPTACLE, MOUNT AS ABOVE, WITH WEATHERPROOF COVERPLATE
- ⊕ GF RECEPTACLE, MOUNT AS ABOVE, GROUND FAULT CIRCUIT INTERRUPTER TYPE
- ⊕ 125V-20A DOUBLE DUPLEX RECEPTACLE NEMA CONFIGURATION 5-20R, MOUNT AT 18" A.F.F.
- ⊕ SPECIAL PURPOSE OUTLET AS NOTED ON DRAWINGS
- ⊕ PANELBOARD, AS NOTED, MOUNT AT 6'-6" A.F.F. TO TOP
- ⊕ EQUIPMENT CABINET, AS NOTED, MOUNT AT 6'-6" A.F.F. TO TOP
- ⊕ JUNCTION BOX
- ⊕ JUNCTION BOX - WALL MOUNTED
- ⊕ SAFETY DISCONNECT SWITCH
- ⊕ COMBINATION MOTOR STARTER

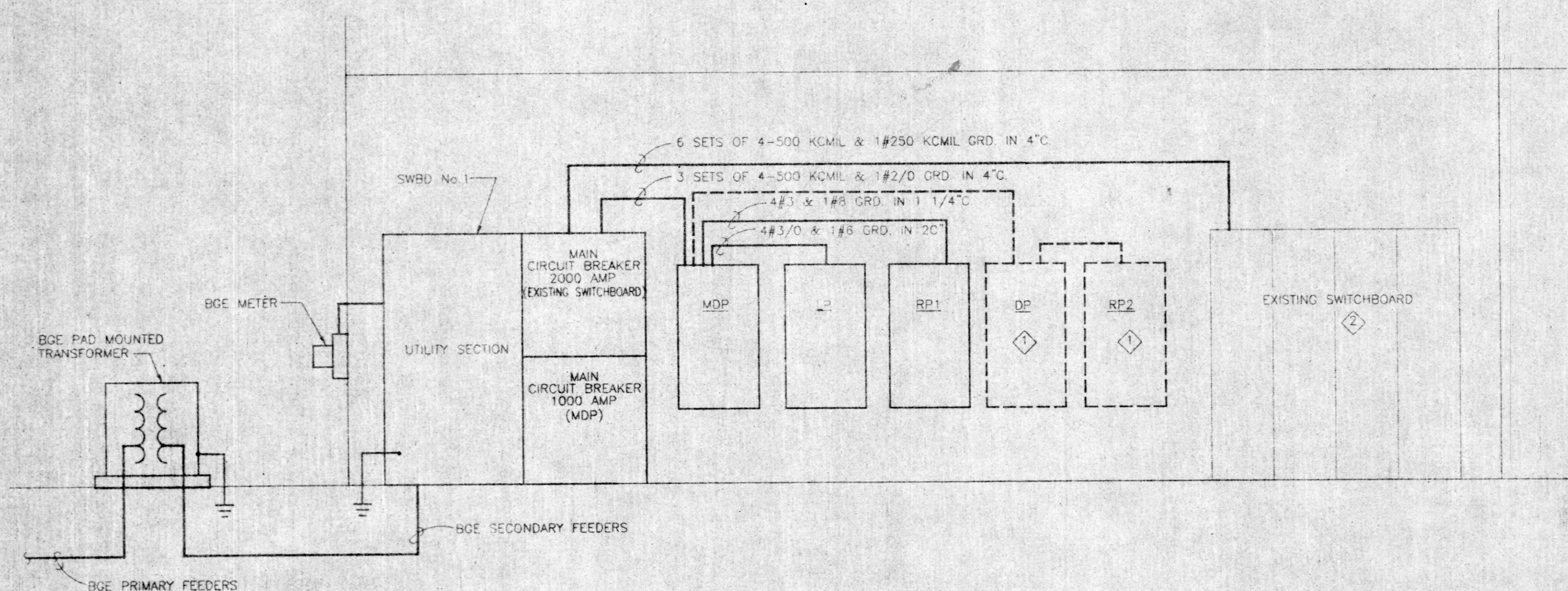
- CONDUIT AND WIRE, CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT AND WIRE, BELOW FLOOR
- UG--- CONDUIT AND WIRE, MINIMUM 3/4" BELOW GRADE
- EX--- EXISTING CONDUIT AND WIRE TO REMAIN
- RX--- EXISTING CONDUIT AND WIRE TO BE REMOVED
- CONDUIT: TURNING UP; TURNING DOWN
- ⊕ HOMERUN TO PANELBOARD: ARROWS INDICATE QUANTITY OF CIRCUITS. CROSSLINES INDICATE QUANTITY OF CONDUCTORS. NOTATION INDICATES PANELBOARD AND CIRCUIT NUMBER TO WHICH CIRCUIT IS TO BE EXTENDED EXCEPT AS NOTED OTHERWISE, ALL CIRCUITS SHALL CONSIST OF MINIMUM #12 AWG CONDUCTORS. NOTE THAT AN EQUIPMENT GROUNDING CONDUCTOR (NOT SHOWN) SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS. THIS EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH N.E.C. TABLE 250-95, EXCEPT THAT MINIMUM SIZE SHALL BE #12 AWG

FIRE ALARM SYSTEM

- ⊕ HORN/FLASHING LIGHT COMBINATION, MOUNT AT 6'-8" A.F.F.
- ⊕ FLASHING LIGHT, MOUNT AT 6'-8" A.F.F.
- ⊕ MANUAL PULL STATION, MOUNT AT 48" A.F.F.

TELECOMMUNICATIONS SYSTEM

- ▼ TELEPHONE OUTLET, WALL MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
- ▼w TELEPHONE OUTLET, WALL MOUNT AT 48" A.F.F. UNLESS NOTED OTHERWISE
- ▼ DATA OUTLET, WALL MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
- ▼w DATA OUTLET, WALL MOUNT AT 48" A.F.F. UNLESS NOTED OTHERWISE
- ▼ COMBINATION TELEPHONE/DATA OUTLET, WALL MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
- ▼w COMBINATION TELEPHONE/DATA OUTLET, WALL MOUNT AT 48" A.F.F. UNLESS NOTED OTHERWISE



POWER RISER DIAGRAM

NO SCALE

NOTES:

- ◇ PANEL SHALL BE PROVIDED UNDER THE CLASSROOM INTERIOR PACKAGE.
- ◇ REMOVE EXISTING CURRENT TRANSFORMERS AND USE THE EMPTY COMPARTMENT AS A PULL SECTION.

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 PERFORMING ARTS ADDITION
 NOTRE DAME PREPARATORY SCHOOL
 TOWSON, MARYLAND
 REVISIONS:
 NO. DESCRIPTION DATE
 LAST REV.
 PROJECT NO.: 98-033
 DATE: NOV 18, 1998
 SCALE: AS NOTED
 TITLE:
 PERFORMING ARTS ADDITION ELECTRICAL SCHEDULES, DIAGRAMS, LEGEND AND ABBREVIATIONS
 SHEET:
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 PA-102