

GENERAL NOTES

- THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
- ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS EQUIPMENT MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH-IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.
- THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
- NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
- ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.
- MCP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN POSITIVELY ATTACHED. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC, SECTIONS 1616A.1.23 THROUGH 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPM#.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

- SHUT DOWN OF EXISTING ELECTRICAL SYSTEMS SERVING THE REST OF THE SCHOOL WILL NOT BE ALLOWED.
- THIS CONTRACTOR SHALL COORDINATE ALL LINE AND LOW VOLTAGE COMPONENTS AND WIRING TYPES TO MATCH EXISTING SYSTEMS, WITH THE SCHOOL DISTRICT PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
- THE NUMERAL(S) SHOWN AT TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING OR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.
- IDENTIFICATION NAME PLATES FOR PANELS AND SWITCHBOARDS/DISTRIBUTION PANEL FEEDER CIRCUIT BREAKERS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
- ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF AND PROVIDED IN A WEATHERPROOF ENCLOSURE.
- INSTALL RACEWAY SYSTEMS AS FOLLOWS:
 - RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.
 - I.M.C. OR E.M.T. IN ALL INDOOR AREAS.
 - FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD STUD WALLS.
 - PVC CONDUIT FOR UNDERGROUND RUNS. USE 20 MIL PVC TAPED RIGID STEEL RISER ELBOWS AND RISERS FOR CONDUIT STUB-UPS.
 - USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.
 - 1" CONDUIT MINIMUM FOR UNDERGROUND INSTALLATIONS.
- ALL NEW WIRING SHALL BE COPPER.
- PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
- CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.
- ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- EXACT LOCATION OF ALL CEILING MOUNTED DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH GOVERNING CODES.
- ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..
- COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..

- ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES DEVICES, FEEDERS, ETC.. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
- ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
- ALL POWER AND LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED WITH A #12 GREEN GROUND WIRE U.O.N. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE CALIFORNIA ELECTRICAL CODE (CEC).
- IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
- THE CONTRACTOR SHALL STRATEGICALLY LOCATE JUNCTION BOXES AND PULL BOXES/BOXES, ETC., IN ACCESSIBLE CEILING SPACES, PROVIDE ACCESS PANELS WHERE JUNCTION/PULL BOXES ARE LOCATED IN INACCESSIBLE CEILING SPACES. COORDINATE LOCATION OF REQUIRED ACCESS PANELS PRIOR TO ROUGH-IN.
- ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WIRING DIAGRAMS OF THE MECHANICAL AND PLUMBING DRAWINGS.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

REFERENCES / ABBREVIATIONS

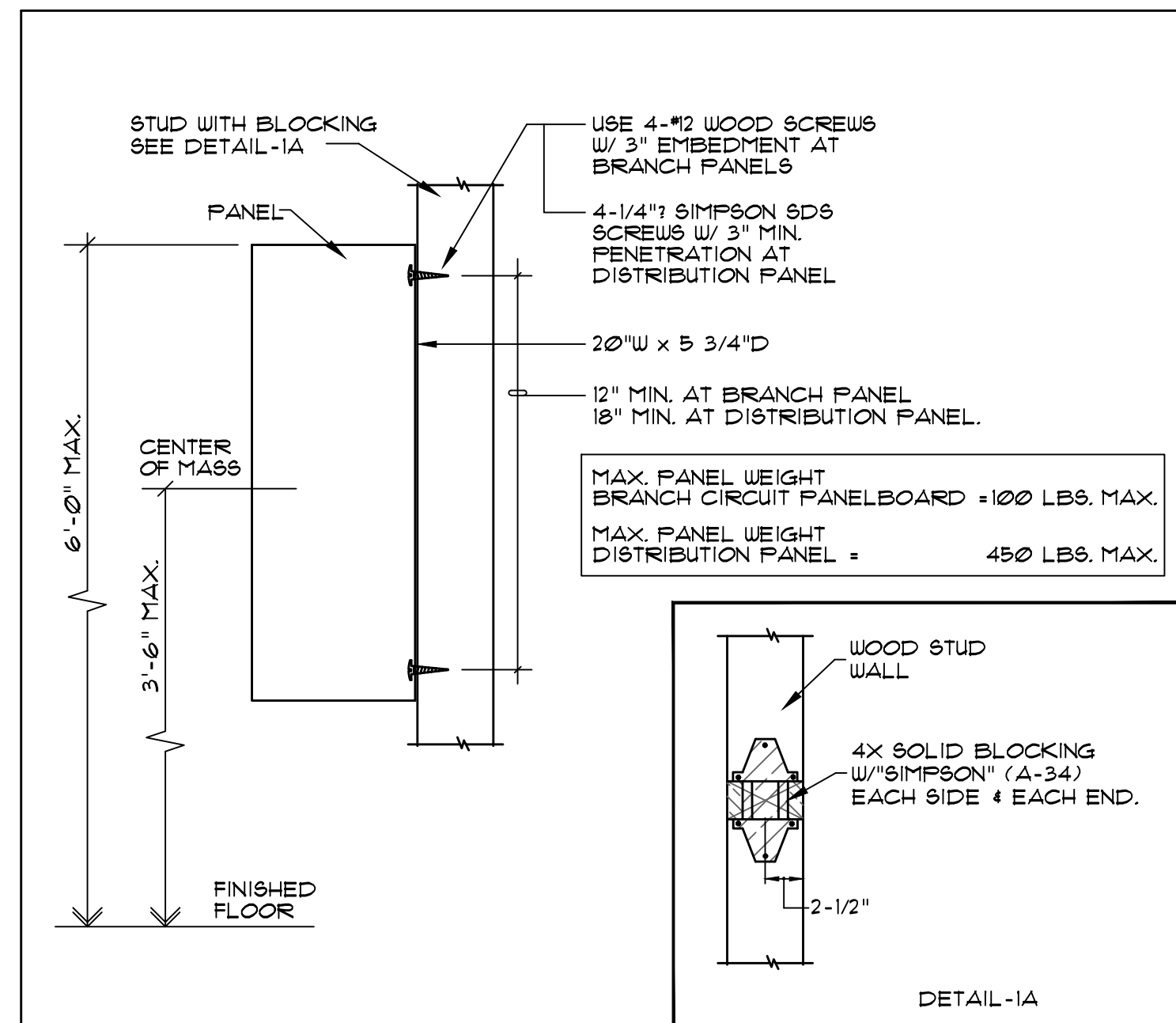
	DETAIL REFERENCE	MCB	MAIN CIRCUIT BREAKER
	KEYNOTE REFERENCE	FLA	FULL LOAD AMPS
A.F.F.	ABOVE FINISH FLOOR	C.	CONDUIT
U.O.N.	UNLESS OTHERWISE NOTED	V.	VOLTS
C.O.	CONDUIT ONLY W/PULL ROPE	A	AMPS
WP	WEATHER PROOF	GFI	GROUND FAULT INTERRUPTER
C.U.	COPPER	GND	GROUND
M.L.O.	MAIN LUGS ONLY	V.L.	VERIFY LOCATION
E or (E)	EXISTING TO REMAIN	A.C.	ABOVE COUNTER
		N.L.	NIGHT LIGHT
		EM.	EMERGENCY

APPLICABLE CODES	
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, AND THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, INCLUSIVE OF:	
2016 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1	
2016 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2, BASED ON 2015 INTERNATIONAL BUILDING CODE.	
2016 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3, BASED ON 2014 NATIONAL ELECTRICAL CODE (NEC).	
2016 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4, BASED ON 2015 UNIFORM MECHANICAL CODE (UMC).	
2016 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24, PART 5, BASED ON 2015 UNIFORM PLUMBING CODE (UPC).	
2016 CALIFORNIA ENERGY CODE, C.C.R. TITLE 24, PART 6.	
2016 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, C.C.R. TITLE 24, PART 1.	
2016 HISTORICAL BUILDING CODE (HBC), C.C.R. TITLE 24, PART 8.	
2016 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 9, BASED ON 2015 INTERNATIONAL FIRE CODE.	
2016 CALIFORNIA EXISTING BUILDING CODE, C.C.R. TITLE 24, PART 10, BASED ON 2015 INTERNATIONAL EXISTING BUILDING CODE.	
2016 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12.	

DEMOLITION NOTES

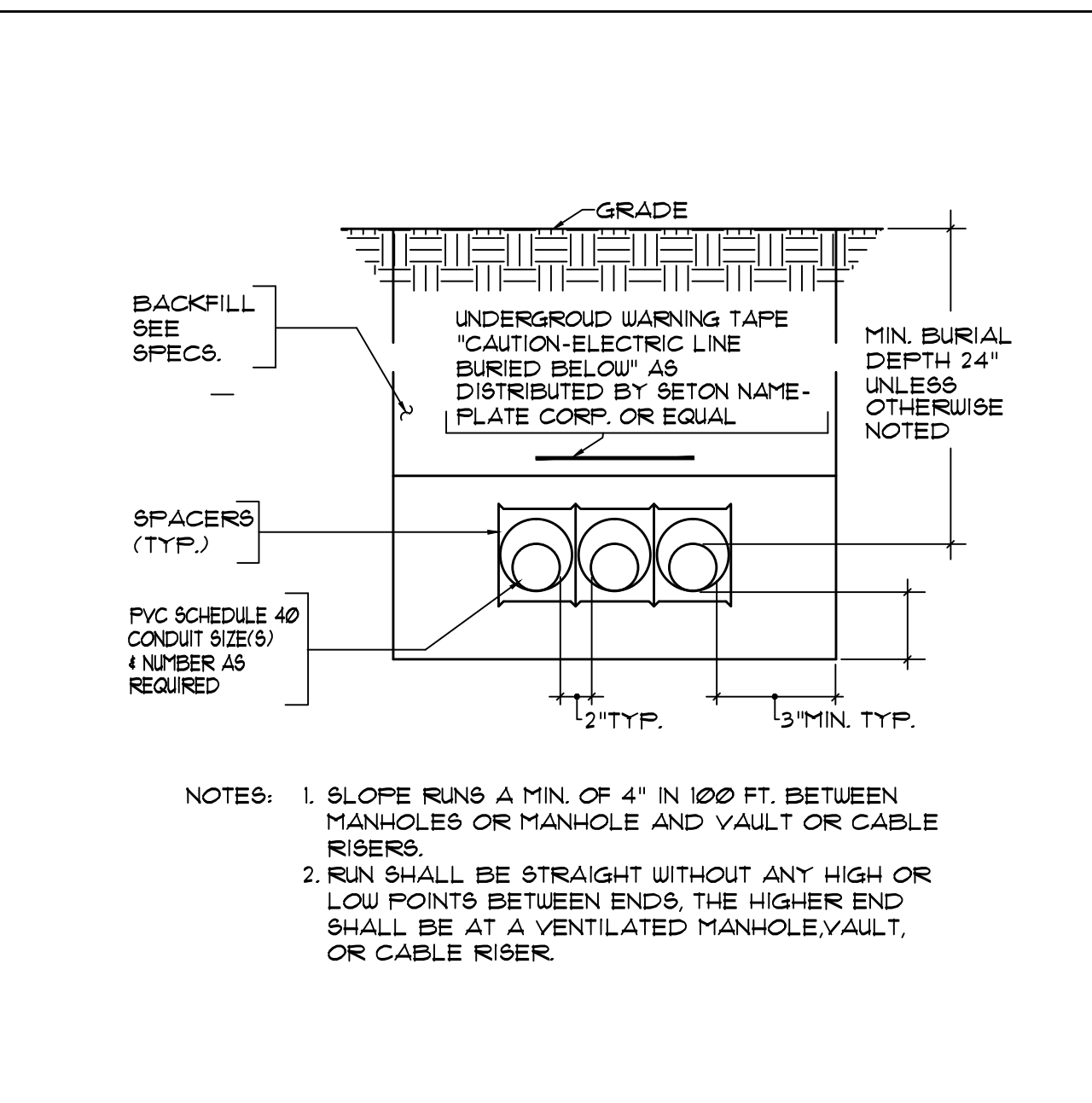
- ALL ELECTRICAL EQUIPMENT, OUTLETS, DEVICES, ETC. THAT ARE MARKED FOR DELETION SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.
- WHERE EXISTING OUTLET/DEVICES TO REMAIN ARE FED BY OUTLETS BEING REMOVED BY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL ROUTE NEW CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT OUTLETS IN OPERATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL/LOW VOLTAGE EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
- ALL EXISTING CONDUITS WITHIN PROJECT AREA FOR LIGHTING FIXTURES, RECEPTACLES, OTHER BRANCH CIRCUITS LOADS AND COMMUNICATIONS/SIGNAL SYSTEMS, WHETHER SHOWN ON PLANS OR NOT, SHALL BE A PART OF THIS CONTRACT.
- IN GENERAL, THE DEMOLITION PLAN SHOWS EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED OR REMOVED AND RELOCATED. HOWEVER, ELECTRICAL EQUIPMENT WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN A REMOVED WALL OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- WHERE EXISTING EQUIPMENT IS REMOVED BY WORK UNDER THIS CONTRACT, EXISTING CONDUIT FEEDS UP THROUGH FLOOR/ROOF SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR AND CONDUCTORS REMOVED FROM THAT POINT BACK TO THE LAST OUTLET REMAINING IN SERVICE. WHERE THE SUBJECT CONDUIT FEEDS OUTLETS/ DEVICES REMAINING IN OPERATION THE CONTRACTOR SHALL REROUTE THE SUBJECT CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN OPERATION OF SUCH CIRCUITS/SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "RECORD" DRAWINGS.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND COMMUNICATION SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT SERVICES IN OPERATION.
- EXISTING CIRCUITS THAT ARE REMOVED AND NOT RE-USED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS 'SPARE'.
- REFER TO GENERAL NOTES, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.

	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOOR 3/4" MIN.
	CONDUIT RUN, UNDERGROUND.
	CONDUIT STUBBED OUT AND CAPPED, FULL LINE IN PLACE.
	CONDUIT TURNED DOWN.
	CONDUIT TURNED UP.
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #2 WIRES CONTAINED THEREIN. TWO #2 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #2.
B-1,3	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
	MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).
	GROUND.
AT	CIRCUIT BREAKER AMPERE TRIP RATING (SINGLE LINE DIAGRAM).
(E)	EXISTING EQUIPMENT TO REMAIN IN OPERATION.
(N)	NEW EQUIPMENT.
WP	WEATHERPROOF.
C.O.	CONDUIT ONLY.
	HVAC EQUIPMENT DESIGNATION. SEE MECHANICAL PLANS.
	FUSED DISCONNECT SWITCH, HEAVY DUTY TYPE WITH REQUIRED QUANTITY OF DUAL ELEMENT TIME DELAY FUSES, NEMA 3R FOR OUTDOOR USE. AS=SWITCH AMPERE RATING, P=NUMBER OF POLES, AF=FUSE AMPERE RATING.
	DETAIL CALLOUT
	DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPTER (20 AMP, 120V, 3W WALL FLATE TO MATCH DEVICE) MTD. AT #0". RECEPTACLE SHALL BE PROVIDED COMPLETE WITH WEATHERPROOF COVERS UL LISTED FOR WET LOCATIONS WHEN IN USE.
	JUNCTION BOX, WP = WEATHER PROOF NEMA 3R, C = FLUSH CEILING MOUNTED.
	FIRE ALARM DUCT SMOKE DETECTOR.
	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD, RATING AND NUMBER OF POLES PER THE EQUIPMENT NAMEPLATE DATA.
	MECHANICAL THERMOSTAT WITH 48 BOX AND (1) 3/4" C. STUB-UP INTO THE ACCESSIBLE CEILING, MOUNTED AT #0" AFF. U.O.N.



PANEL - STUD WALL MTD.

SCALE: NONE 1

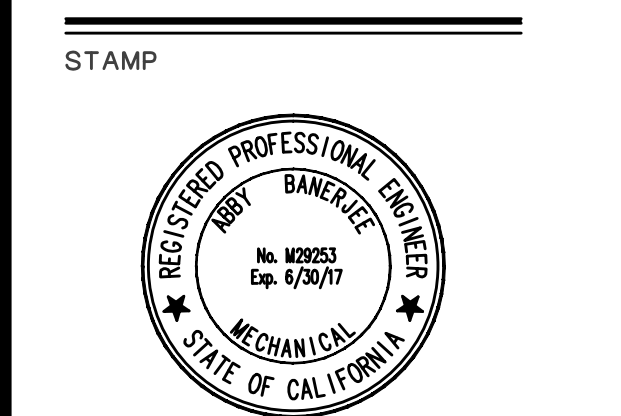


UNDERGROUND DUCT-BANK

SCALE: NONE 2

- NOTES:
- SLOPE RUNS A MIN. OF 4" IN 100 FT. BETWEEN MANHOLES OR MANHOLE AND VAULT OR CABLE RISERS.
 - RUN SHALL BE STRAIGHT WITHOUT ANY HIGH OR LOW POINTS BETWEEN ENDS. THE HIGHER END SHALL BE AT A VENTILATED MANHOLE, VAULT, OR CABLE RISER.

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PROJECT NAME:

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SERVER ROOM MECHANICAL UPGRADE

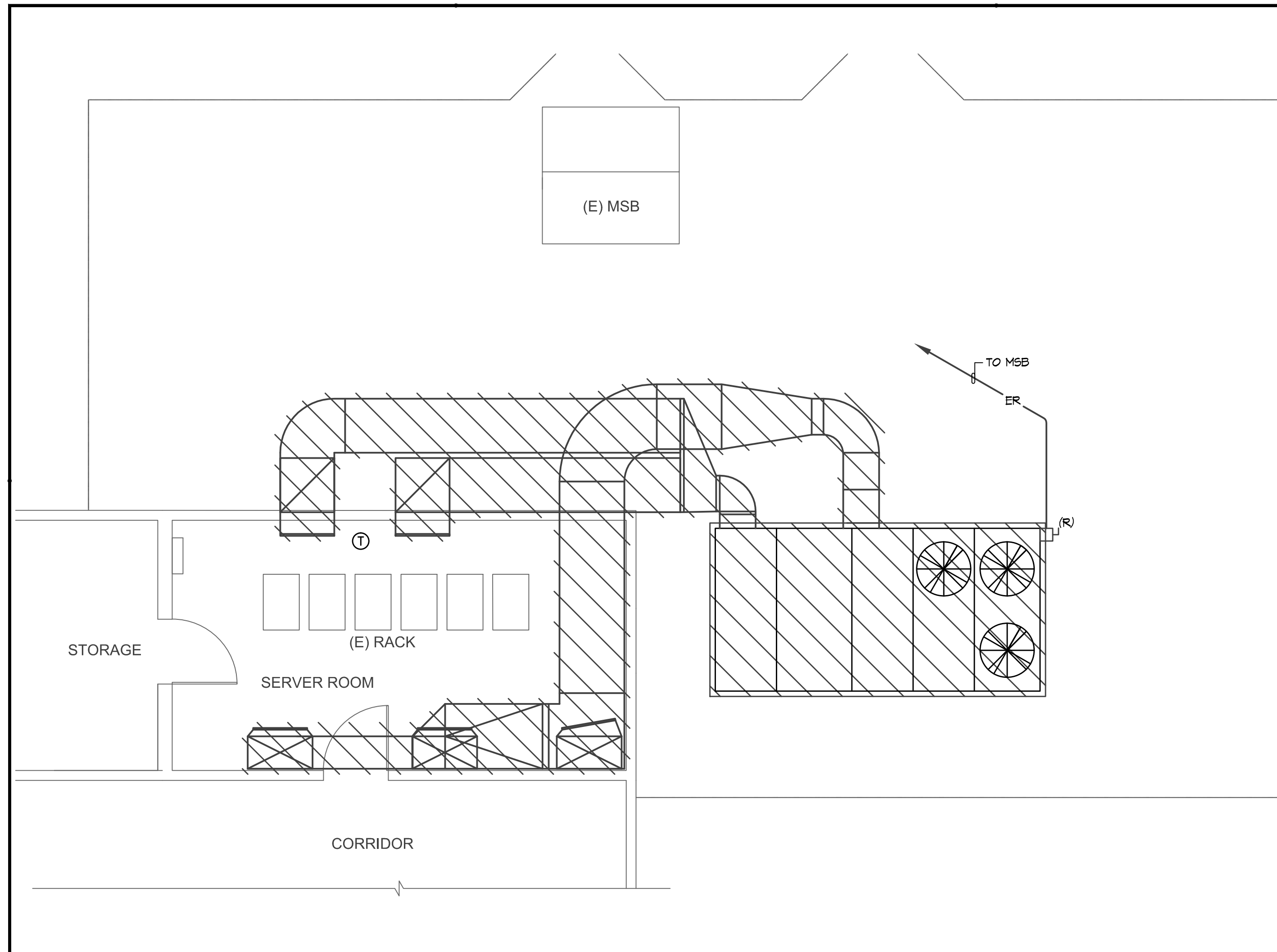
No.	Rev.	Date	Description
1			
2			
3			
4			

JOB NO: 516503
 DATE: 08-05-2016
 DRAWN: LS
 CHECK: RES
 ARCHITECT: N/A
 ENGINEER:
 CONSULTANT

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 8800 BARRETT RD., SUITE C, BARCELONA, CA 94703
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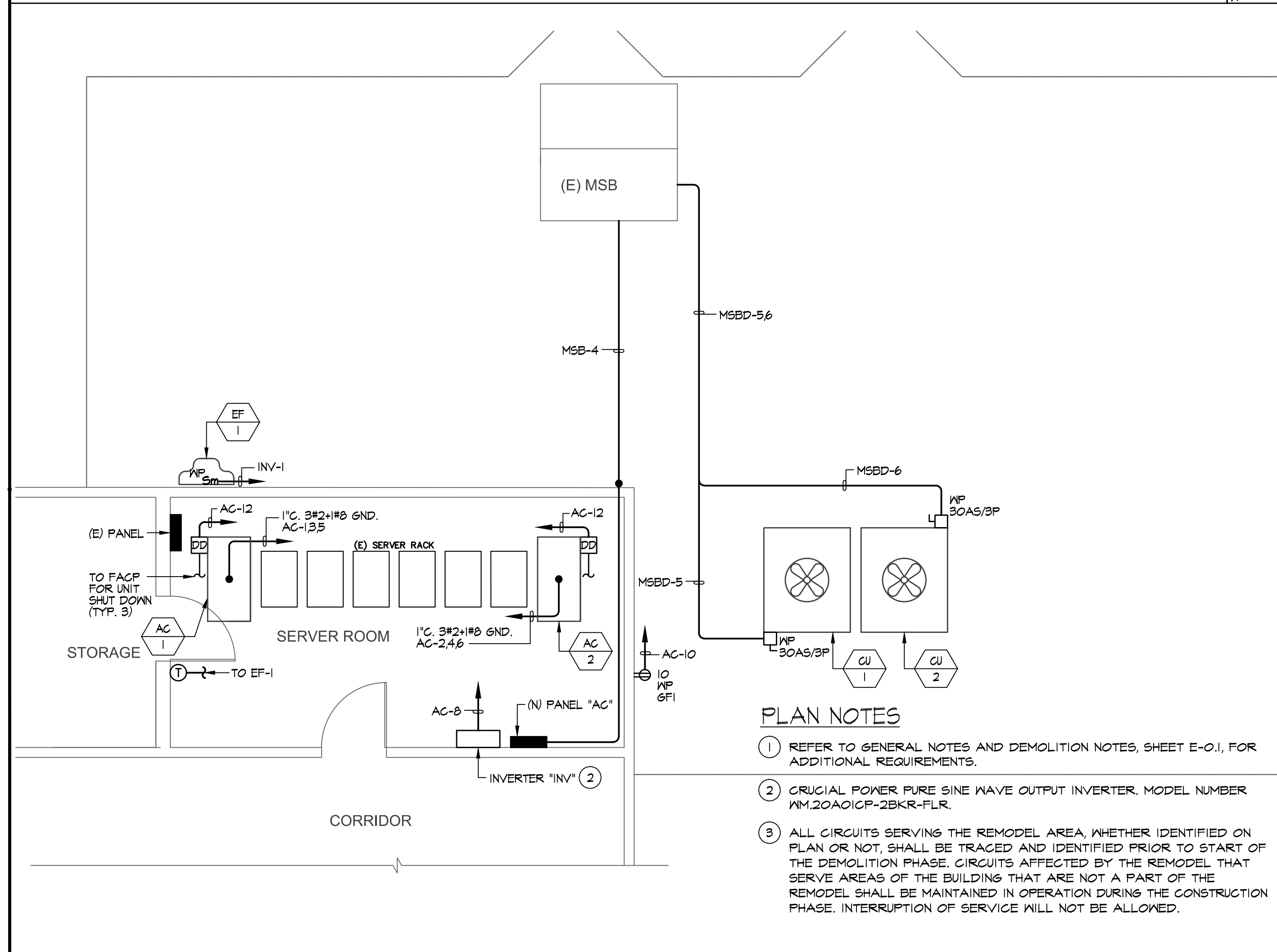


STATE:
 SHEET DESCRIPTION:
GENERAL NOTES AND SYMBOL LIST
 SHEET NO.



SERVER ROOM - DEMOLITION PLAN

SCALE
1/4"=1'-0" 1

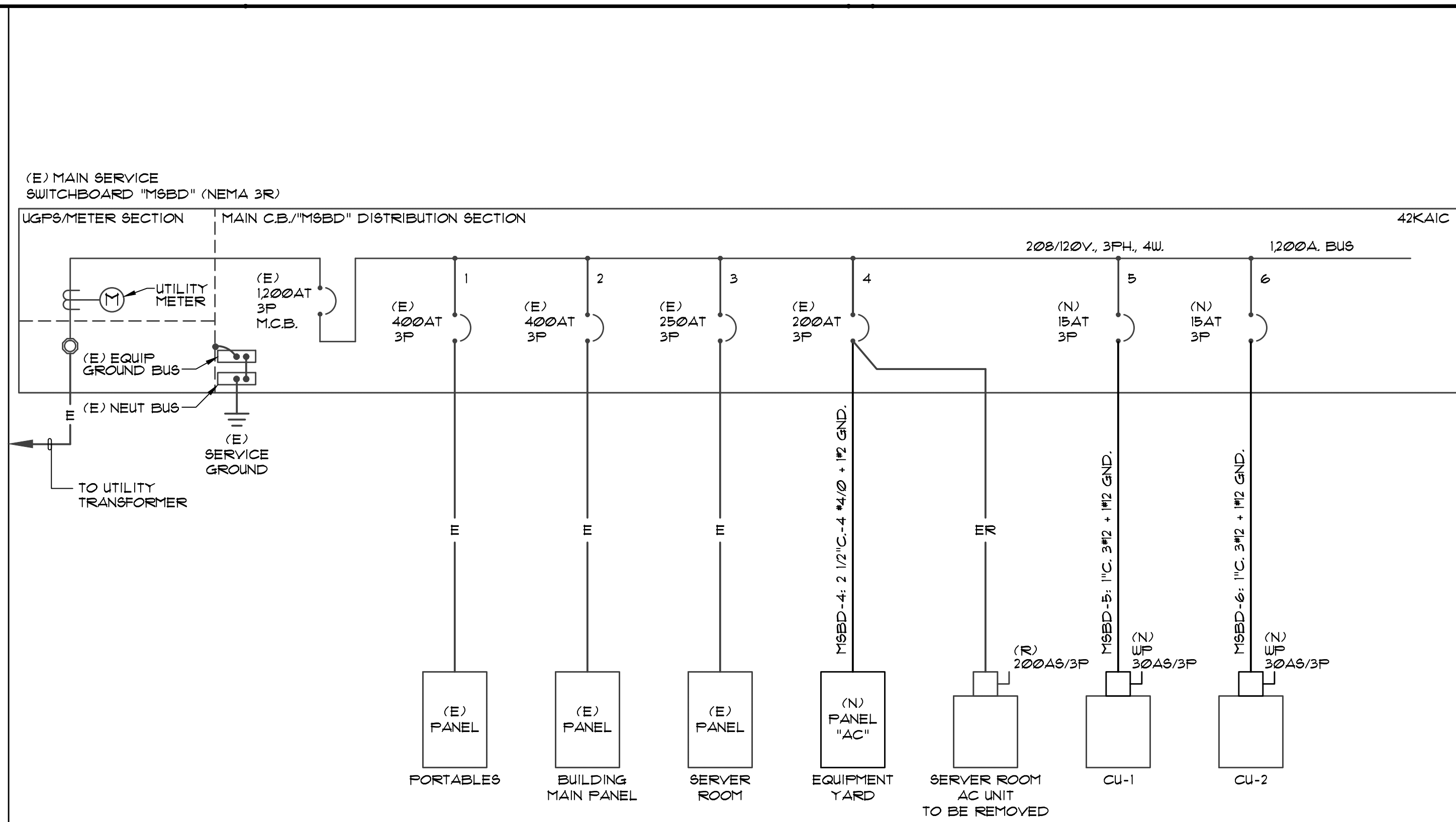


SERVER ROOM - REMODEL PLAN

SCALE
1/4"=1'-0" 2

PLAN NOTES

- REFER TO GENERAL NOTES AND DEMOLITION NOTES, SHEET E-01, FOR ADDITIONAL REQUIREMENTS.
- CRUCIAL POWER PURE SINE WAVE OUTPUT INVERTER, MODEL NUMBER WM.20A01CP-2BKR-FLR.
- ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.



MAIN SERVICE SWITCHBOARD "MSBD" LOAD SCHEDULE

* REMOVED LOAD (35T RTU)	-102.0 A.
NEW LOAD "CU-1"	+5.1 A.
NEW LOAD "CU-2"	+5.1 A.
NEW PANEL "AC" (HIGH PHASE)	+92.0 A.
NET LOAD DECREASE	-106.8 A.

* BASED ON EQUIPMENT NAMEPLATE DATA

PANEL "AC" MAIN BREAKER: 200A. SCA: 22 KAIC
VOLTAGE: 208/120V-4-WIRE BUS SIZE: MOUNT: SURFACE
LOCATION: EQUIP. YARD COPPER: 225A. ENTRY: BOTTOM

DESCRIPTION	CKT	BKR	ILTS	REC	MTR	A-V A	B-V A	G-V A	AMPS
AC-1	1	60	3		1	5448			
WCKT. 1	3						5448		
WCKT. 1	5							5448	
SPARE	7	20	1						
SPARE	9	20	1						
SPARE	11	20	1						
SPARE	13	20	1						
SPARE	15	20	1						
SPARE	17	20	1						
SPARE	19	20	1						
SPARE	21	20	1						
SPARE	23	20	1						
SPACE	25								
SPACE	27								
SPACE	29								
SUB TOTAL VOLTIAMPS:						5448	5448	5448	
AC-2	2	60	3		1	5448			
WCKT. 2	4						5448		
WCKT. 2	6							5448	
INVERTER "INV"	8	20	1		1	200			
EXTERIOR RECEPTACLE	10	20	1		1		180		
DUCT DETECTORS	12	20	1		2			100	
SPARE	14	20	1						
SPARE	16	20	1						
SPARE	18	20	1						
SPARE	20	20	1						
SPARE	22	20	1						
SPARE	24	20	1						
SPACE	26								
SPACE	28								
SPACE	30								
SUB TOTAL VOLTIAMPS:						5648	5628	5548	
PANEL SUB TOTAL VOLTIAMPS:						11096	11076	10996	
TOTAL LCL/PHASE:						0	0	0	
TOTAL VOLTIAMPS:						11096	11076	10996	
TOTAL AMPS/PHASE:						92	92	92	
CONNECTED:	33168 VA								
25% OF MTR:	0 VA								
25% OF LCL:	0 VA								
CALCULATED:	33168 VA = 92.07 AVERAGE AMPS								

SINGLE LINE NOTES

- NEW "6E" CIRCUIT BREAKER TO MATCH EXISTING. SHORT CIRCUIT RATING SHALL BE EQUAL TO OR GREATER THAN THE HIGHEST EXISTING CIRCUIT BREAKER AIC RATING. PROVIDE WITH REQUIRED MOUNTING HARDWARE AND ACCESSORIES.
- SHUT DOWN OF EXISTING POWER DISTRIBUTION EQUIPMENT REQUIRED FOR THE INSTALLATION OF THE NEW CIRCUIT BREAKERS SHALL BE COORDINATED WITH THE HOSPITAL ENGINEERING DEPARTMENT 72 HOURS IN ADVANCE.
- REFER TO SHEET E-01, GENERAL NOTES, FOR ADDITIONAL REQUIREMENTS.

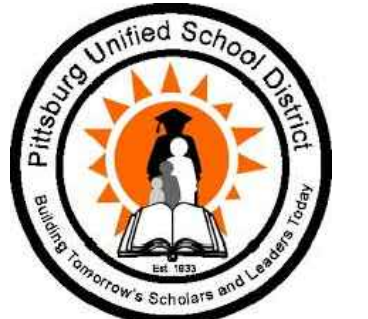
SINGLE LINE DIAGRAM AND PANEL/LOAD TABLES

SCALE
NONE 3

STAMP



PROJECT NAME:

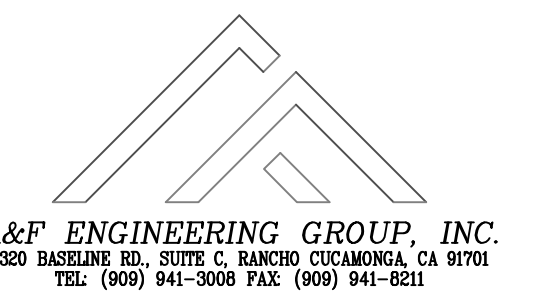


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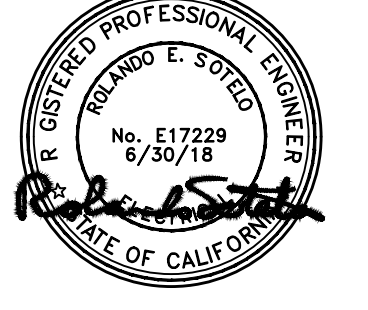
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DRAWN: LS
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ENGINEER:
CONSULTANT:



STAMP



STATE:

SHEET DESCRIPTION:
ELECTRICAL PLANS,
SINGLE LINE DIAGRAM, AND
PANEL SCHEDULE
SHEET NO.