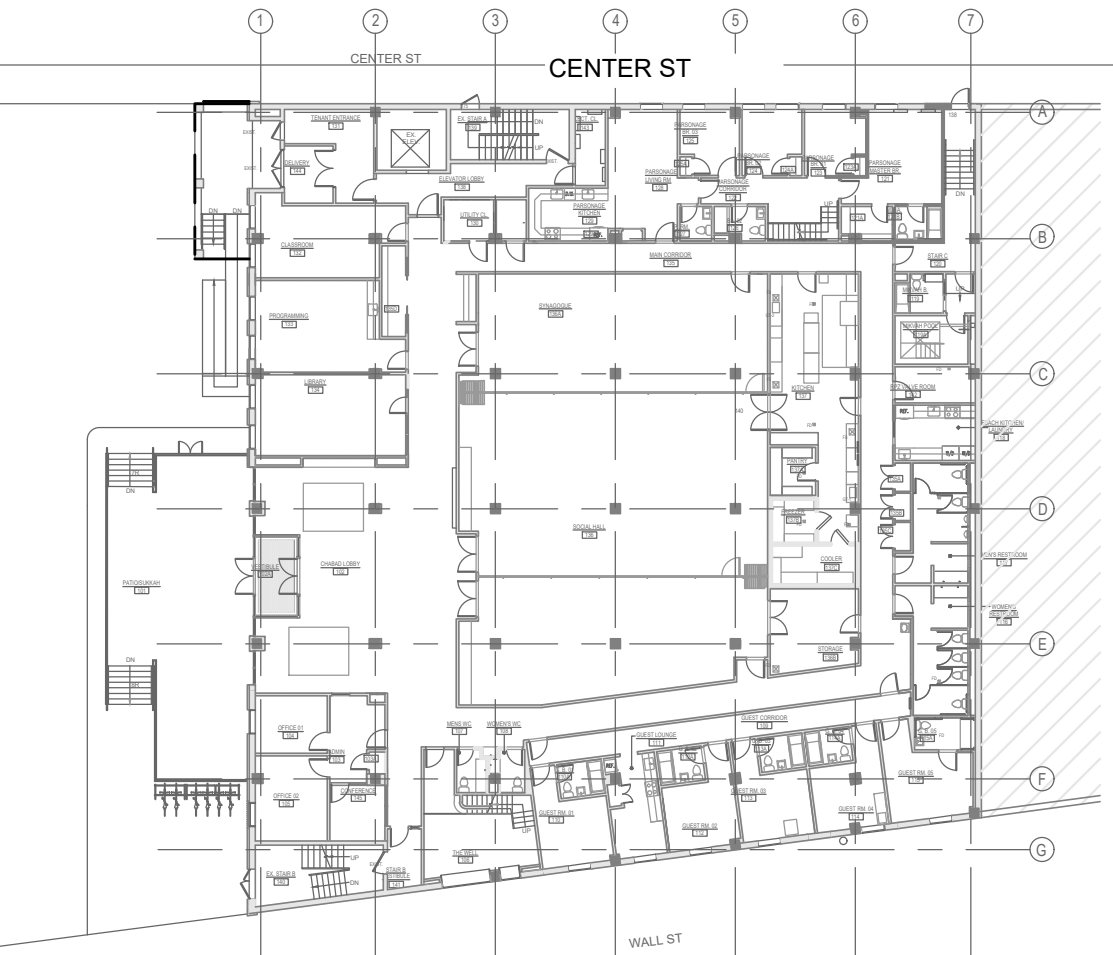


ELECTRICAL DEMOLITION NOTES		GENERAL NOTES		ABBREVIATIONS		ELECTRICAL DRAWING LIST	
1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF ELECTRICAL WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT. 2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ARCHITECT'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE- ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY. 3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED. 4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION. 5. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD. 6. ALL RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.	1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATION OF OUTLETS AND EQUIPMENT SHALL BE AS APPROVED BY THE ARCHITECT OR HIS REPRESENTATIVE. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAN. 2. BIDDERS, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND CAREFULLY EXAMINE THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE. 3. FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON ARCHITECTURAL, HVAC, PLUMBING AND/OR ELECTRICAL DRAWINGS. COORDINATE WITH OTHER TRADES FOR DETAILS OF INSTALLATION AND WIRING REQUIREMENTS. THE TERM "WIRING" AS USED HEREIN SHALL INCLUDE FURNISHING AND INSTALLING CONDUIT, WIRES, JUNCTION/OUTLET BOXES, DISCONNECTS, OVERCURRENT PROTECTION AND FINAL CONNECTIONS. COORDINATE FINAL CONDUCTOR SIZES, QUANTITIES, VOLTAGE REQUIREMENTS, AND OVERCURRENT DEVICE AND OUTLET RATINGS WITH ACTUAL EQUIPMENT TO BE FURNISHED TO THE SITE PRIOR TO FINALIZING WIRING INSTALLATION. MINOR ADJUSTMENTS TO WIRING REQUIREMENTS NECESSARY TO ACCOMMODATE ACTUAL FURNISHED EQUIPMENT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER. 4. VERIFY LOCATIONS AND QUANTITY OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS OR INTERIOR DETAILS. IN CENTERING OUTLETS AND LOCATING BOXES OR OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILING, ETC., AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.	26. PROVIDE ALL REQUIRED PULL, JUNCTION, OUTLET BOXES AND TROUGHS. 27. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. 28. PROVIDE BACKBOXES FOR ALL DEVICES, EQUIPMENT, ETC. 29. IN COMMON PULL BOXES PROVIDE METAL PARTITIONS TO SEPARATE THE FOLLOWING WIRE TYPES FROM EACH OTHER: - POWER - CONTROL AND INDICATING - COMMUNICATION 30. PROVIDE BLANK COVER PLATES OVER ALL UNUSED OPENINGS IN PANELBOARDS, PULL AND JUNCTION BOXES AND TROUGHS. 31. INSTALL AND CONNECT EVERY STARTER AND VARIABLE FREQUENCY DRIVE FURNISHED BY OTHER TRADES/VENDORS ON THIS PROJECT. 32. RATING OF DISCONNECT SWITCHES TO MATCH OVERCURRENT PROTECTIVE DEVICE U.O.N. 33. EXIT LIGHTS, EMERGENCY BATTERY PACKS & NIGHT LIGHTS SHALL NOT BE SWITCHED U.O.N. CONNECT TO UNSWITCHED LEG OF ASSOCIATED CIRCUIT. PROVIDE CODE COMPLIANT EMERGENCY BATTERY PACKS. 34. PROVIDE ALL NECESSARY TEMPORARY AND INTERIM ELECTRICAL POWER WORK (PANELS, DISCONNECT SWITCHES, WIRE, CONDUITS, BREAKERS, CONNECTIONS, FUSES, GENERATORS, FUEL, ETC.) REQUIRED TO INSTALL THE PERMANENT WORK FOR ALL TRADES. 35. LOCATE JUNCTION AND PULL BOXES TO BE CONCEALED IN FINISH SPACES.	A AMPERE ACT ACTIVE A/C AIR CONDITIONING AFF ABOVE FINISH FLOOR ARCH ARCHITECT BLDG BUILDING C, CDT CONDUIT CB CIRCUIT BREAKER CLG CEILING DN DOWN DP DISTRIBUTION PANEL DWG DRAWING E EXISTING TO REMAIN EC EMPTY CONDUIT EM EMERGENCY ENCL ENCLOSURE ER EXISTING TO BE RELOCATED ENGR ENGINEER EQUIP EQUIPMENT FBO FURNISHED BY OTHERS FIXT FIXTURE FL FLOOR FLA FULL LOAD AMPS FLUOR FLUORESCENT	DRAWING NO.	DRAWING TITLE		
				E-001	ELECTRICAL NOTES, SYMBOLS LIST AND ABBREVIATIONS		
				E-100	ELECTRICAL CELLAR, 1ST FL. DEMOLITION AND SITE POWER PART PLANS		
				E-200	ELECTRICAL 1ST FL. POWER PART PLANS		
				E-201	ELECTRICAL ROOF POWER PLAN		
				E-300	ELECTRICAL CELLAR LIGHTING PLAN		
				E-301	ELECTRICAL 1ST FL. LIGHTING PART PLANS		
				E-500	ELECTRICAL BLOCK RISER DIAGRAM		
				E-600	ELECTRICAL PANEL SCHEDULES I		
				E-601	ELECTRICAL PANEL SCHEDULES II		
E-700	ELECTRICAL DETAILS I						
E-701	ELECTRICAL DETAILS II						
E-702	ELECTRICAL DETAILS III						
E-800	ELECTRICAL SPECIFICATIONS I						
E-801	ELECTRICAL SPECIFICATIONS II						

ARC FLASH STUDY

ELECTRICAL CONTRACTOR SHALL COMPLY WITH ARC FLASH REQUIREMENTS PER NFPA 70E AS PART OF THIS PROJECT ON ALL ELECTRICAL PANELS. ELECTRICAL CONTRACTOR SHALL PERFORM A COORDINATION STUDY, FINAL BREAKER SETTINGS, AND LABEL REQUIREMENTS AS A PART OF THE PROJECT. SUBMIT BREAKER SETTING INFORMATION, COORDINATION STUDY, AND AS-BUILT DRAWINGS INCLUDING A 1 LINE DIAGRAM TO OWNER AS PART OF THE CLOSE OUT DOCUMENTS.



SITE PLAN
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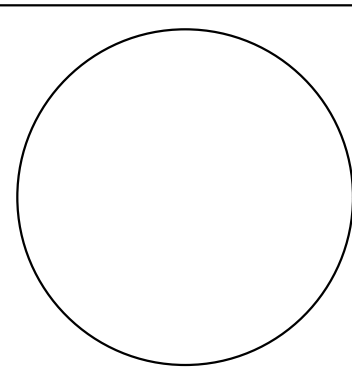
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Sheet Title:
**ELECTRICAL NOTES, SYMBOLS
& ABBREVIATIONS**



Drawing No.:

E-001

80 KW, 120/208V, 3%, NATURAL GAS
STANDBY EMERGENCY GENERATOR
IN SKINTIGHT, WEATHER PROOF, SOUND
ATTENUATING ENCLOSURE LEVEL 2,
MOUNTED ON CONCRETE PAD.
REQUIREMENTS. REFER TO CIVIL
ENGINEER DRAWINGS FOR DETAILS AND
REQUIREMENTS.

PROVIDE:
(1) 4#1, 1#6 IN 1 1/2" PVC
(1) 4#5/0, 1#6 IN 1 1/2" PVC
REFER TO CIVIL ENGINEER DRAWINGS FOR
ADDITIONAL INFORMATION AND DETAILS.

(4) 4" PVC WITH DRAG WIRE,
SCHEDULE 40
UNDERGROUND, FOR ELECTRIC
SERVICE. INSTALL CONDUITS
PER NYSEG
SPECIFICATIONS AND CODE.
COORDINATE ROUTING WITH
CIVIL ENGINEER AND UTILITY
COMPANY.

(2) GUN DC ELEC.
VEHICLE CHARGING STATION. EXACT LOCATION
& ELECTRICAL REQUIREMENT WITH
ARCHITECT/CIVIL ENGINEER & VENDOR.
(TYPICAL FOR 2)

ELEC POLE WITH (4)
LIGHT FIXTURES

ELEC POLE WITH (4)
LIGHT FIXTURES

PROVIDE MANHOLE
WITH ACCESS

SECURITY GATES. COORDINATE EXACT
LOCATION & ELECTRICAL REQUIREMENT WITH
ARCHITECT/CIVIL ENGINEER & VENDOR.
(TYPICAL FOR 2)

1

SITE POWER PLAN

1/16" = 1'-0"

PART PLAN KEYNOTES

- REMOVE EQUIPMENT SCHEDULED FOR DEMOLITION IN ITS ENTIRETY. REMOVE CONDUITS, RISERS, SUPPORTS, FEEDERS AND BRANCH CONDUCTORS ASSOCIATED WITH EQUIPMENT BEING REMOVED. REPAIR CORE SLAB HOLES AS NECESSARY. COORDINATE REMOVAL TO MAINTAIN POWER TO THE BUILDING AT ALL TIMES. PROVIDE TEMPORARY SERVICE IF NECESSARY TO MAINTAIN POWER.
- PROVIDE (1) POWER CIRCUIT FOR PARKING LIGHTING. COORDINATE LOCATION WITH ARCHITECT AND CIVIL ENGINEER.
- UNDERGROUND WIRING INSTALLED IN PVC CONDUIT SHALL BE BURIED MINIMUM 24" BELOW GRADE. LAST 24" OF PVC CONDUITS BEFORE EMERGING ABOVE GRADE SHALL TRANSITION TO RIGID, THREADED, GALVANIZED STEEL (RGS) WITH PVC COATING. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUITS IN NON-METALLIC CONDUIT SHALL INCLUDE GROUND CONDUCTOR, UNLESS OTHERWISE NOTED. SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR UNDER GROUND WIRING.

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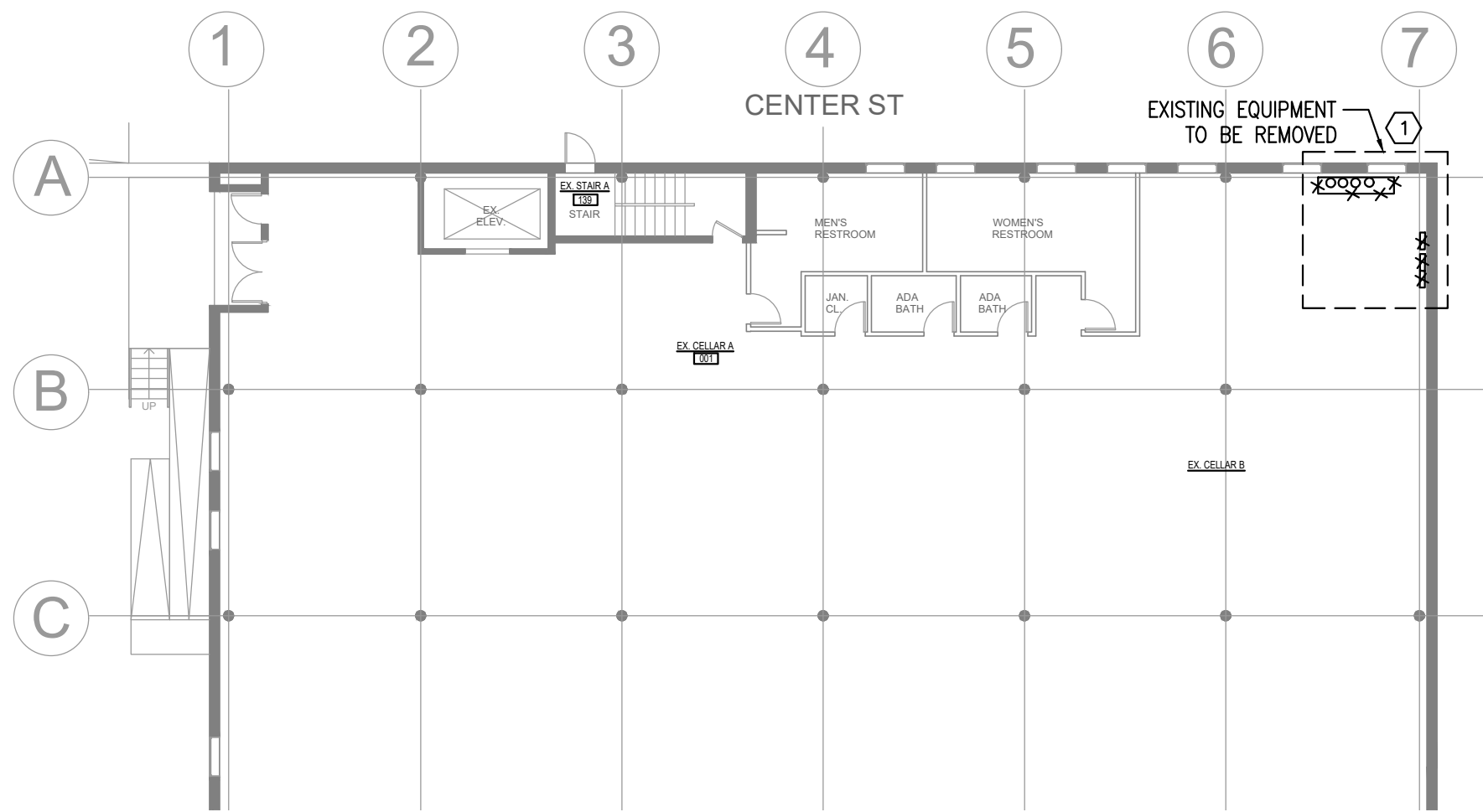
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**ELECTRICAL CELLAR, 1ST FLOOR
DEMOLITION &
SITE POWER PLANS**

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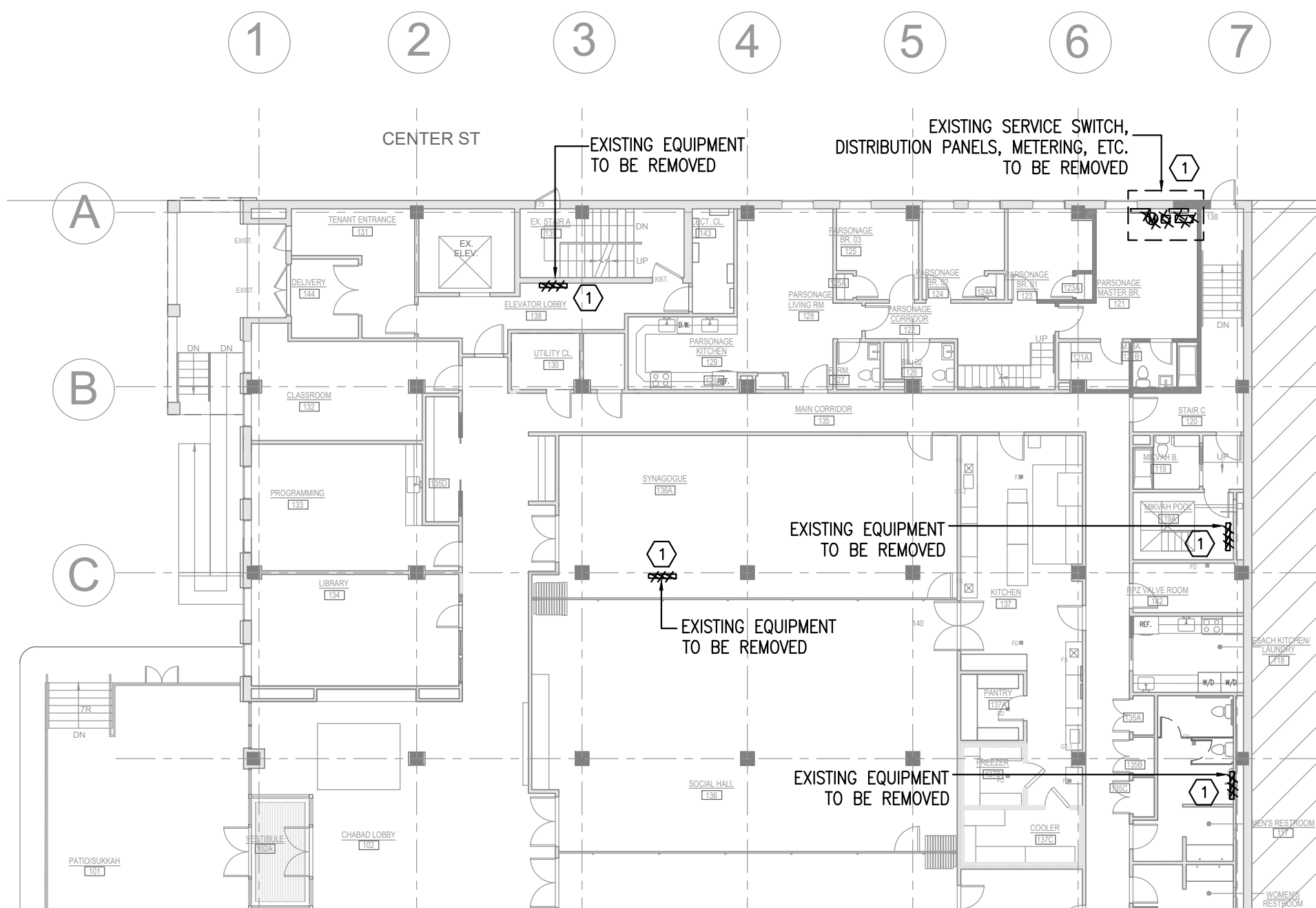
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2

CELLAR DEMOLITION POWER PLAN

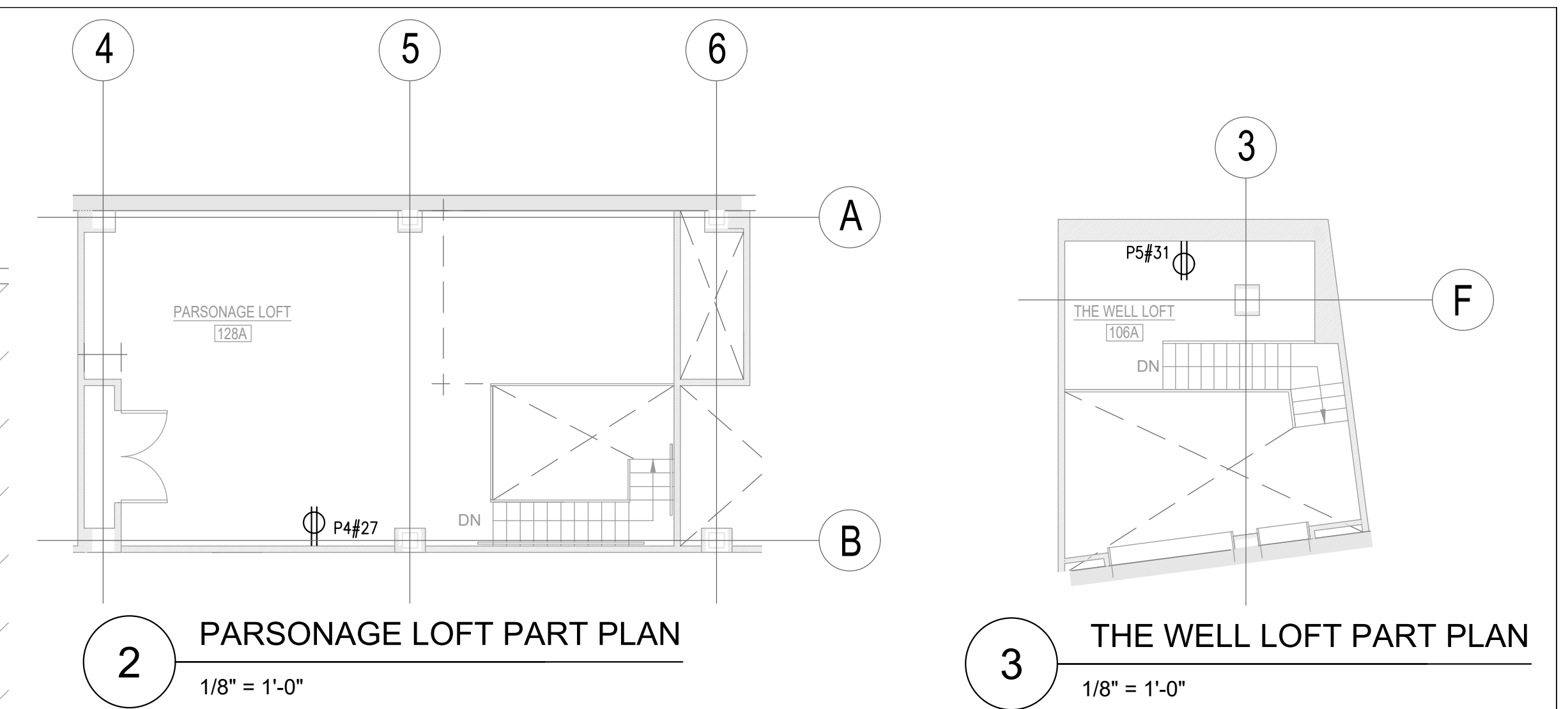
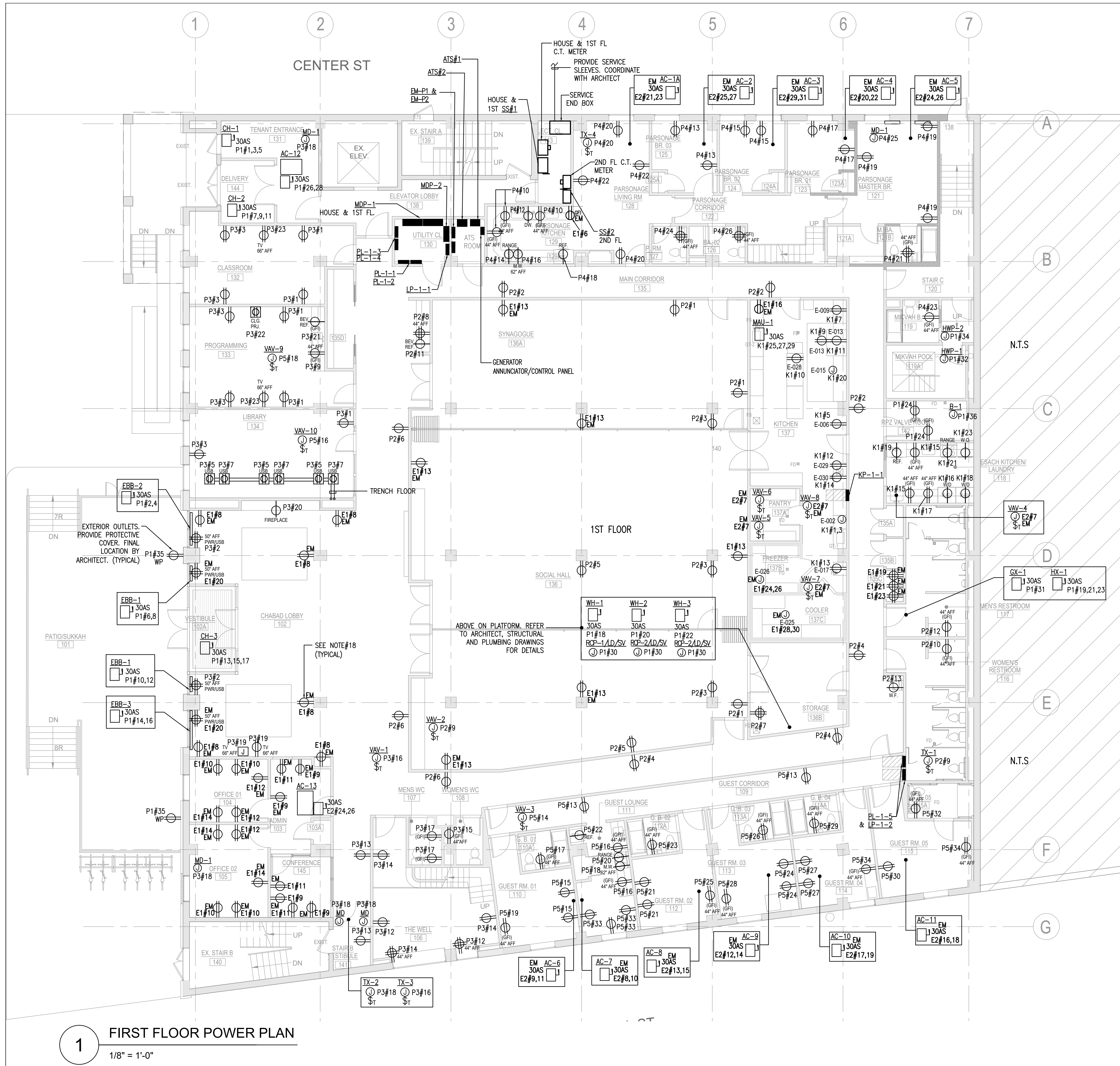
1/16" = 1'-0"



3

1ST FL. DEMOLITION POWER PLAN

1/16" = 1'-0"



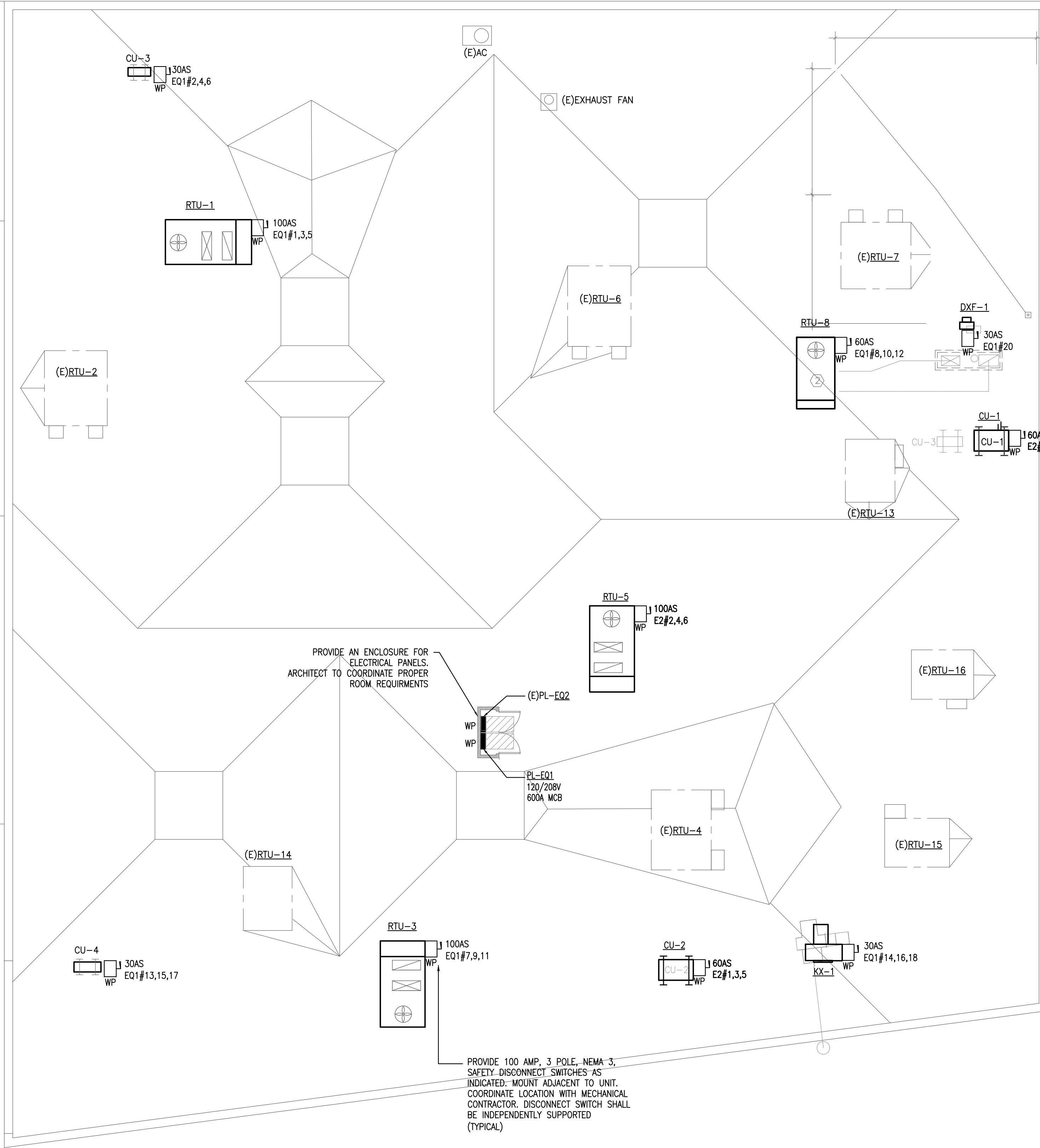
ELECTRICAL KITCHEN EQUIPMENT									
MK.	QTY	AMPS	KW	HP	VOLTS	PH	JBOX	RCPT	DESCRIPTION
E-002	1	48.3	-	-	208	1	X		DISHWASHER
E-006	1	14.0	-	-	120	1		X	PROOFER CABINET, MOBILE
E-009	1	5.6	-	-	120	1		X	REACH-IN REFRIGERATOR
E-013	2	8.0	-	-	120	1		X	CONVECTION OVEN, GAS
E-015	1	-	-	-	-	-	X		KX-1
E-017	1	7.1	-	-	120	1		X	ICE MAKER WITH BIN
E-025	1	-	-	3/4	208	1	X		WALK-IN COOLER
E-026	1	-	-	2	208	1	X		WALK-IN FREEZER
E-028	1	7.0	-	-	120	1		X	FOOD PROCESSOR
E-029	1	3.0	-	-	120	1		X	FOOD SLICER
E-030	1	15.0	-	-	120	1		X	FOOD BLENDER

- GENERAL POWER REQUIREMENTS
- EXACT LOCATION OF RECEPTACLES, & EQUIPMENT IN-FEED, AND CEILING LOCATIONS & QUANTITIES SHALL BE VERIFIED WITH ARCHITECT, INTERIOR DESIGNER & FIELD CONDITIONS.
 - REFER TO ARCHITECTURAL, LIGHTING DESIGNER DRAWINGS FOR FIXTURE SCHEDULES, SYMBOL LIST, EXACT FIXTURE LOCATION.
 - ELECTRICAL WHIPS/FLEXIBLE CONNECTIONS SHALL BE A MAXIMUM LENGTH OF 18".
 - CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUITING AND OUTLET LOCATION UPON COMPLETION OF WORK.
 - PROVIDE CONDUITS, WIRES, METAL-CLAD CABLE WITH GROUND WIRE AND BOXES REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
 - WIRING FOR BRANCH CIRCUIT HOMERUNS SHALL BE:
#12 WIRE IF THE LENGTH DOESN'T EXCEED 80FT;
#10 WIRE IF MORE THAN 80FT.
 - ALL DEVICES ARE NEW UNLESS OTHERWISE NOTED. ALL COVER-PLATE COVERS TO MATCH WALL COLOR AND SHALL COORDINATE WITH ARCHITECTURAL AND INTERIOR DESIGNER DRAWINGS.
 - CIRCUIT BREAKER SHALL NOT BE LOADED MORE THAN 80% OF THEIR RATED AMPERE CAPACITY.
 - SEE PANEL SCHEDULES FOR MORE INFORMATION.
 - PROVIDE 1 1/4" CONDUIT STUB-UPS AND BACK BOXES FOR ALL TEL/DATA RECEPTACLES SHOWN. TERMINATE STUB UPS 6" ABOVE FINISHED PARTITIONS/WALL. PROVIDE DRAG WIRE IN CONDUIT (TYPICAL).
 - MAINTAIN CONTINUITY FOR EXISTING POWER LANDLORD N.I.C. AREAS TO REMAIN.
 - ALL HOME RUNS TO PANELS SHALL BE IN EMT OR MC OR AL CABLES.
 - ALL EXPOSED WIRING IN CEILINGS OR INTERIOR SHALL BE IN EMT.
 - ALL WIRING IN LANDLORD DEMISING WALLS SHALL BE IN EMT.
 - ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.
 - SEE MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATION AND REQUIREMENTS.
 - SEE PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATION AND REQUIREMENTS.
 - IDENTIFY SELECTED RECEPTACLE 'EM' ON EMERGENCY POWER. COORDINATE FINISH COLOR RE/AND LABELING WITH ARCHITECT.
 - ALL RECEPTACLES IN PANTRY/KITCHEN SHALL BE 'GFI' TYPE.
 - CONTRACTOR TO REFER TO ARCHITECTURAL AND/OR KITCHEN CONSULTANT DRAWINGS FOR FINAL INFORMATION REGARDING ALL KITCHEN EQUIPMENT, CONNECTION/TERMINATION REQUIREMENTS AND THEIR RESPECTIVE APPURTENANCES TO ENSURE A FULLY FUNCTIONAL INSTALLATION.
 - ALL EQUIPMENT LOCATED UNDER COOKING EXHAUST HOOD TO BE PROVIDED WITH SHUNT TRIP BREAKERS

CIRCUIT DESIGNATION:

XX # X
Y

— CIRCUIT NUMBER IN RESPECTIVE PANEL INDICATED
— PANEL DESIGNATION
P1 — PANEL PL-1-1
P2 — PANEL PL-1-2
P3 — PANEL PL-1-3
P4 — PANEL PL-1-4
P5 — PANEL PL-1-5
L1 — PANEL LP-1-1
P5 — PANEL PL-1-5
K1 — PANEL KP-1-1
E01 — PANEL PL-E01
E1 — PANEL EM-P1
E2 — PANEL EM-P2



CIRCUIT DESIGNATION:
XX # X
Y
—CIRCUIT NUMBER IN RESPECTIVE PANEL INDICATED
—PANEL DESIGNATION
EQ1 - PANEL PL-EQ1
EQ2 - PANEL EM-P2

1 ROOF POWER PLAN
1/8" = 1'-0"

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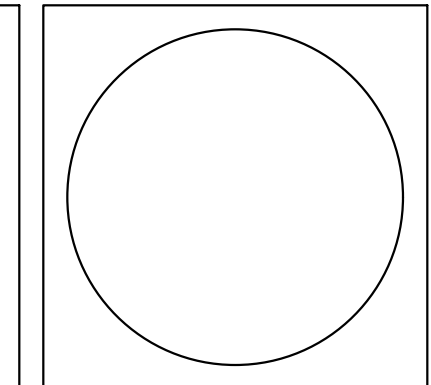
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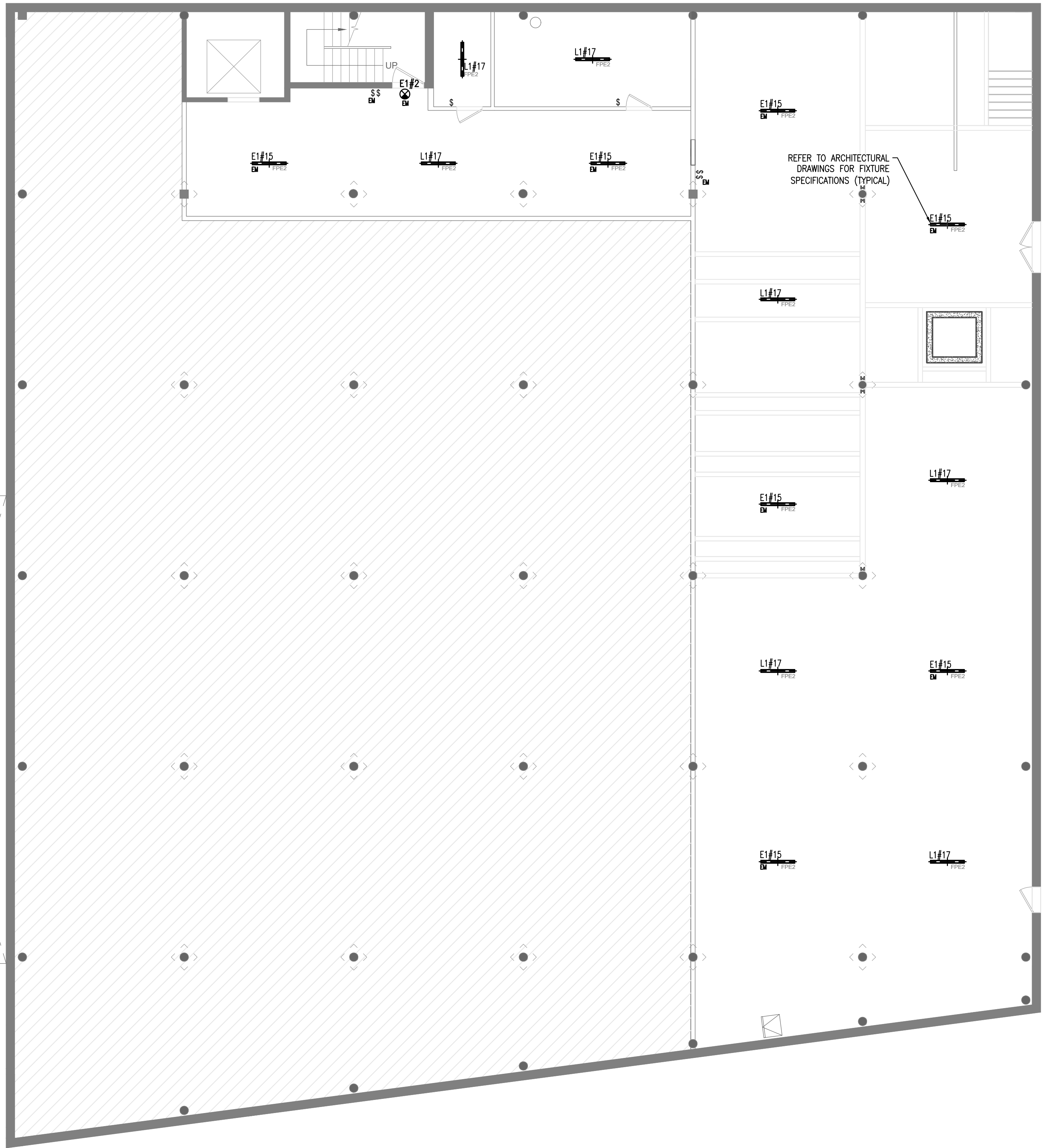
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ELECTRICAL ROOF POWER PLAN



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LIGHTING GENERAL NOTES

1. CONTRACTOR SHALL UTILIZE EXISTING CIRCUITS THAT PREVIOUSLY SERVED THE AREA OF WORK. CONTRACTOR SHALL VERIFY EXISTING CIRCUIT LOAD, CIRCUIT BREAKERS SHALL NOT EXCEED 80% OF THE BREAKER'S NOMINAL VALUE. USE SPARE 15A/1P OR 20A/1P CIRCUIT BREAKERS IN THE NEW PANELS SERVING THE AREA.
2. REFER TO ARCHITECTURAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULES, SYMBOL LIST, AND EXACT FIXTURE LOCATIONS.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELING FOR ALL NEW PANELS AND SHALL RE-LABEL ALL EXISTING PANELS AND CIRCUIT NUMBERS.
4. ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUIT, WIRING, JUNCTION BOXES & FLEXIBLE FINAL CONNECTIONS AS REQUIRED TO MEET NATIONAL ELECTRICAL CODE.
5. ALL FIXTURE LOCATIONS AND HEIGHTS TO BE COORDINATED WITH ARCHITECT. ALL DEVICE FINISHES TO BE COORDINATED WITH ARCHITECT.
6. MAINTAIN CONTINUITY FOR EXISTING LIGHTING IN AREA OF WORK.
7. REPROGRAM BREAKERS PER PANEL SCHEDULE AS REQUIRED AND COORDINATE WITH BASE BUILDING ENGINEER.
8. CONTRACTOR IS RESPONSIBLE TO TRACE, IDENTIFY AND VERIFY CIRCUITS PRESENTLY SERVING THE AREA OF WORK. EXISTING CIRCUITS ARE TO REMOVE UNLESS VERIFIED UN USED IN THE FIELD AFTER DEMOLITION.
9. LIGHTING PLAN SHOWS NEW FIXTURE LOCATIONS. FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURES RELOCATIONS, REFER TO ARCHITECTURAL DRAWINGS.
10. WIRING FOR LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE:
#12 WIRE IF THE LENGTH DOESN'T EXCEED 80FT
#10 WIRE IF MORE THAN 80FT.
11. EMERGENCY BACK OF HOUSE LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED TO NEW EMERGENCY PANEL.

CIRCUIT DESIGNATION:

XX # X
CIRCUIT NUMBER IN RESPECTIVE PANEL INDICATED
PANEL DESIGNATION
P1 - PANEL PL-1-1
P2 - PANEL PL-1-2
P3 - PANEL PL-1-3
P4 - PANEL PL-1-4
P5 - PANEL PL-1-5
K1 - PANEL KP-1-1
EQ1 - PANEL PL-EQ1
E1 - PANEL EM-P1
E2 - PANEL EM-P2

1

CELLAR LIGHTING PLAN

1/8" = 1'-0"

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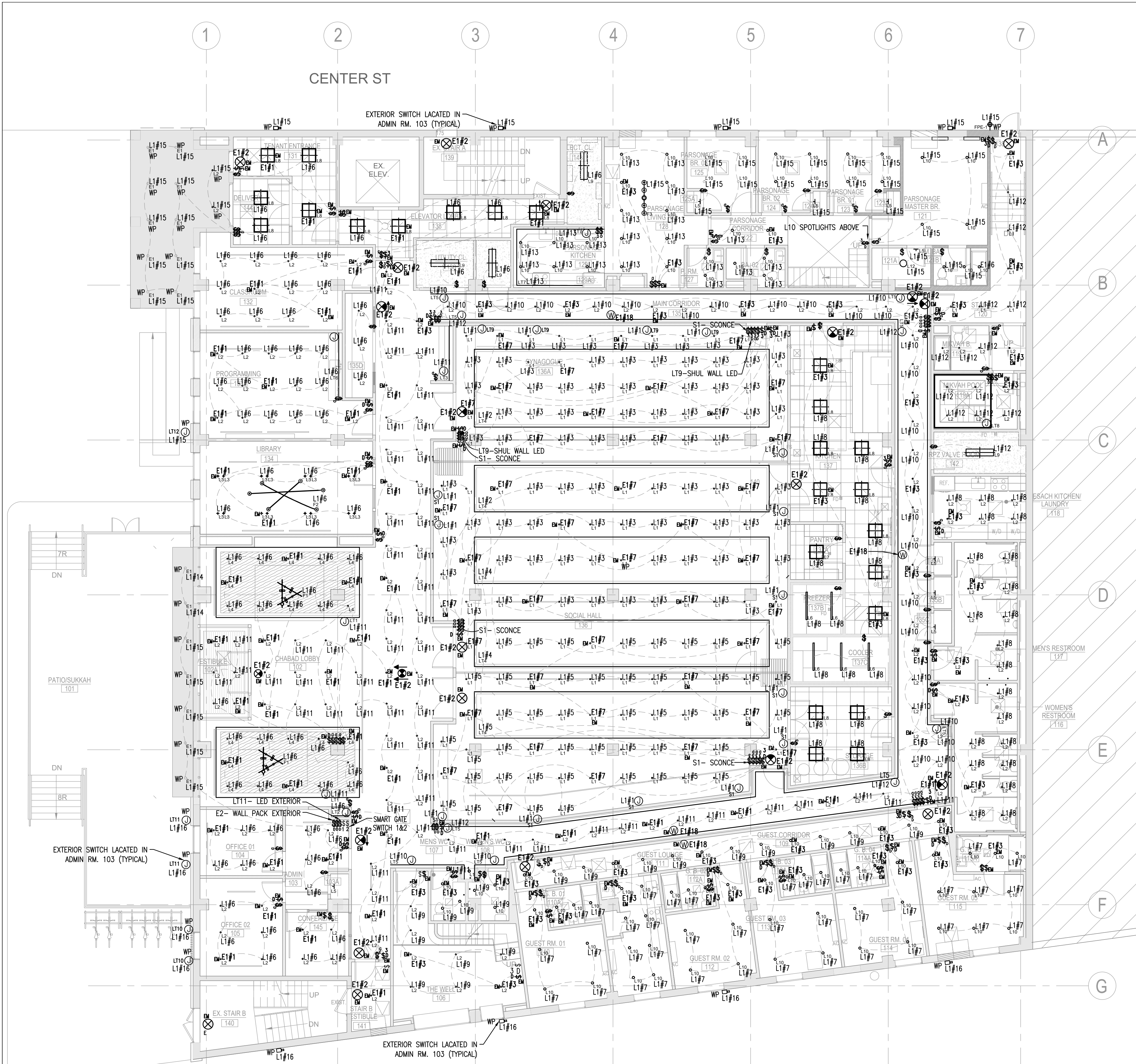
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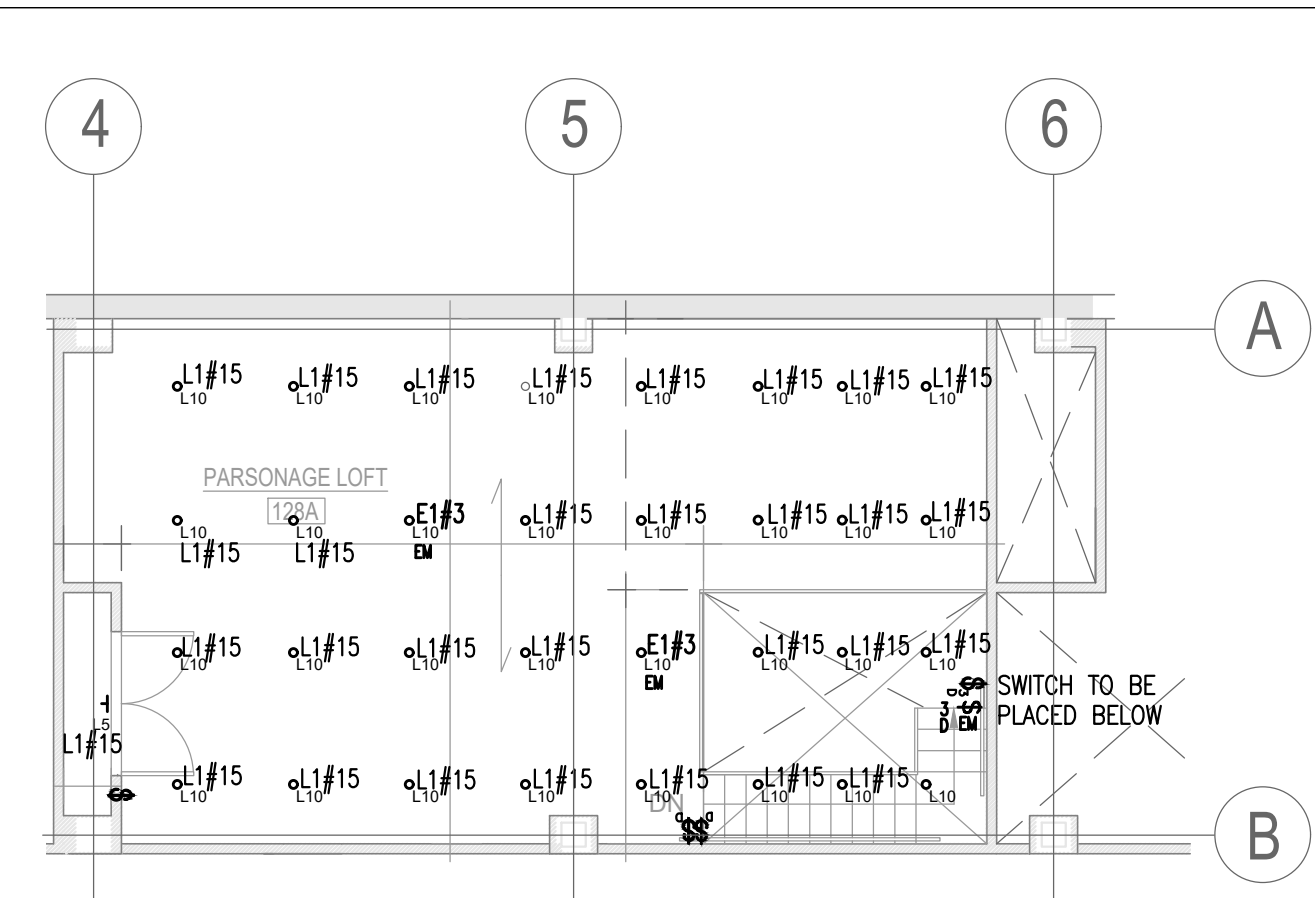
**CELLAR ELECTRICAL LIGHTING
PLAN**

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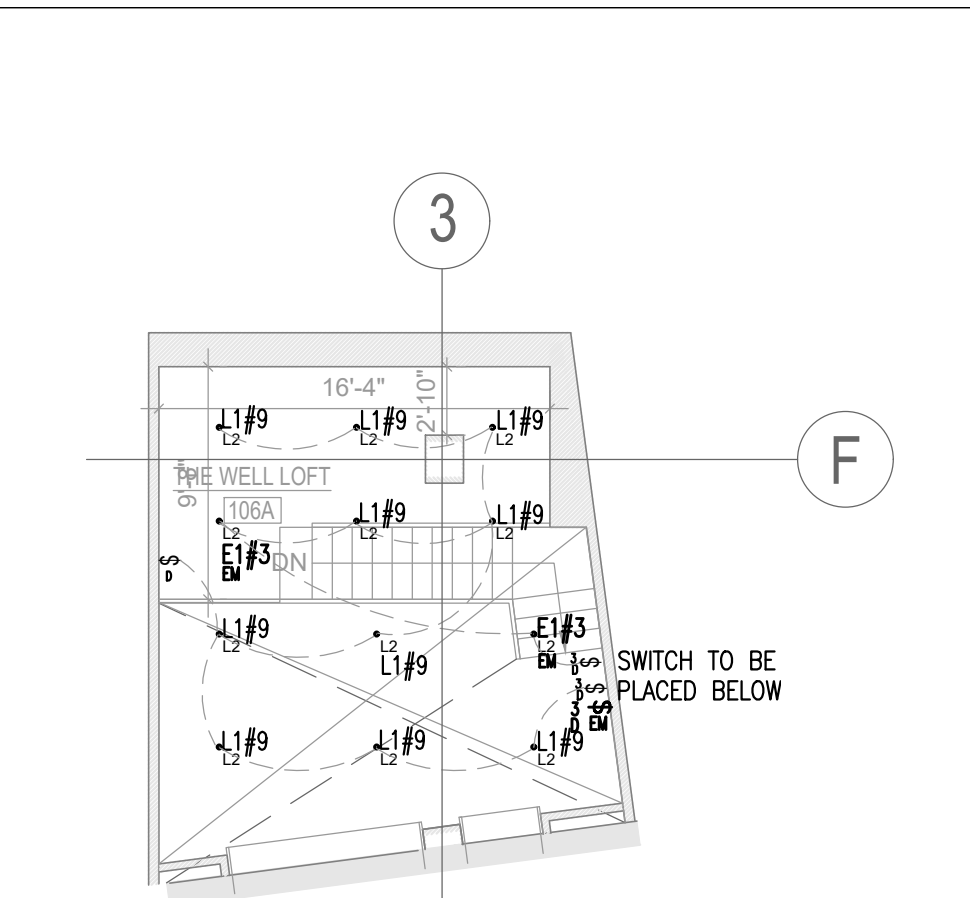
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1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"



2 PARSONAGE LOFT PLAN
1/8" = 1'-0"



3 THE WELL LOFT PLAN
1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE				
FIXTURE	FIXTURE DESCRIPTION	LOAD TYPE	TOTAL WATTAGE	VOLTAGE
L1	2" SPOTLIGHT	ELV/TRIAC 0-10V	25W	120V
L2	2" SPOTLIGHT	TRIAC OR 0-10V	20W	120V
L3	2" TRIMLESS SPOTLIGHT	ELV/TRIAC 0-10V	25W	120V
L4	2" SPOTLIGHT	TRIAC OR 0-10V	20W	120V
L5	24" LINEAR LED LIGHT	0-10V DIMMABLE	20W	120V
L6	48" VAPOR TIGHT LINEAR LIGHT	0-10V DIMMABLE	45W	120V
L7	2'x2' SURFACE LED PANEL	0-10V DIMMABLE	40W	120V
L8	2'x2' RECESSED BACKLIT LED PANEL	0-10V DIMMABLE	40W	120V
L9	1'x4' SURFACE LED PANEL	0-10V DIMMABLE	40W	120V
L10	4" RECESSED LED SPOTLIGHT	ELV/TRIAC 0-10V	12W	120V
L11	STEP LIGHT WITH PHOTOCELL	N/A	2W	120V
L12	12" SLIM SURFACE MOUNT (CLOSET)	TRIAC	22W	120V
E1	MODERNRAIL CHANDELIER (LOBBY)	TRIAC OR 0-10V	20W	120V
E2	EXTERIOR FLOOD LUMIN. LIGHT	ELV	36W	120V
EX	EXIT SIGN COMBOS	N/A	4W	120V
F1	MODERNRAIL CHANDELIER (LOBBY)	ELV/TRIAC	70W	24V
F2	CUSTOM 10', 12', 15' (LIBRARY)	DIMMABLE	45/55/68W	120V
F3	EXTRA LARGE LINEAR CHANDELIER	ELV/TRIAC	23W	120V
S1	DRESSER LONG GLASS ROD LIGHT	N/A	6W	120V
LT1	GEMINI LED TAPE - 24FT ROLL	ELV/TRIAC	4W/LF	120V
LT2	GEMINI LED TAPE - 15FT ROLL	ELV/TRIAC	4W/LF	120V
LT3	GEMINI LED TAPE - 24FT ROLL	ELV/TRIAC	4W/LF	12/24V
LT4	COVE COB 1.5 LED TAPE LIGHT	DIMMABLE	2W/LF	24V
LT5	COB 110 LED STRIP	DIMMABLE	4W/LF	120V
LT6	GEMINI LED TAPE - 15FT ROLL	ELV/TRIAC	4W/LF	120V
LT7	GEMINI LED TAPE - 15FT ROLL	ELV/TRIAC	4W/LF	12/24V
LT8	GEMINI LED TAPE - 15FT ROLL	ELV/TRIAC	4W/LF	12/24V
LT9	GEMINI LED TAPE - 15FT ROLL	ELV/TRIAC	4W/LF	12/24V
LT10	COB 110 LED STRIP	DIMMABLE	4W/LF	120V
LT11	COB 110 LED STRIP	DIMMABLE	4W/LF	120V
LT12	TBD			120V

CONTROLS LEGEND	
ALL TO BE ON A SMART SWITCH SYSTEM	
\$	SINGLE POLE DIMMER
\$	3 WAY DIMMER
\$	3 WAY SWITCH
\$	SINGLE POLE SWITCH
\$	WIFI RECEPTACLE
\$	SMART GATEWAY 1
\$	SMART GATEWAY 2

- LIGHTING PLAN NOTES**
- CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH LIGHTING FIXTURE OR JUNCTION BOX. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE ALL CONDUIT, WIRE AND BOXES AS WELL AS CEILING OUTLETS AND WHIPS REQUIRED TO ENERGIZE LIGHTING FIXTURES AS SHOWN.
 - ALL LIGHTING FIXTURES SHALL BE INSTALLED IN SUCH WAY TO AVOID INTERFERENCE WITH MECHANICAL DIFFUSERS, HVAC DUCT WORK, SPRINKLERS, PUBLIC ACCESS SPEAKERS AND OTHER SYSTEMS' COMPONENTS.
 - ALL LIGHTING FIXTURES SHALL BE AS SPECIFIED BY THE ARCHITECT OR LIGHTING CONSULTANT. FOR EXACT LIGHTING FIXTURES LOCATIONS AND LIGHT FIXTURES SCHEDULE REFER TO ARCHITECTURAL DOCUMENTATION.
 - SEE ARCHITECTURAL/VENDOR SHOP'S DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, JUNCTION BOXES AND FOR LIGHTING FIXTURE SCHEDULE/CONTROLS. LIGHTING FIXTURE CUTS SHALL BE OBTAINED FROM ARCHITECT PRIOR TO INSTALLATION.
 - ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY CONNECTIONS FROM THE WALL AND FLOOR TO THE FIXTURES LOCATED AT MILLWORK. COORDINATE WITH MILLWORK CONTRACTOR.
 - CIRCUIT BREAKERS SHALL NOT BE LOADED MORE THAN 80% OF THEIR RATED AMPERE CAPACITY.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELING FOR ALL NEW PANELS AND CIRCUIT NUMBER.
 - ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUIT, WIRING, JUNCTION BOXES & FLEXIBLE FINAL CONNECTIONS AS REQUIRED TO MEET NATIONAL ELECTRICAL CODE.
 - ALL DEVICES FINISHES TO BE COORDINATED WITH ARCHITECTS.
 - ALL LIGHT FIXTURES TO BE CONTROLLED WITH A LIGHTING CONTROL SYSTEM OR A METHOD LISTED IN THE ENERGY CODE.
 - CONTRACTOR TO COORDINATE FINAL LIGHTING SYSTEMS, CONTROLS AND ZONING WITH LIGHTING DESIGNER PRIOR TO PURCHASING THE DEVICES.
 - HOMERUNS TO LIGHTING FIXTURES IN OPEN AREAS (CORRIDORS AND MAIN ELEVATOR LOBBY NOT OFFICES OR INTERIOR ROOMS) SHALL BE WIRED VIA TIMECLOCK WITH BUILT IN LIGHTING RELAY LOCATED IN ELECTRICAL CLOSET.
 - LIGHTING FIXTURES IN EXISTING ELECTRICAL CLOSET TO BE CLEANED AND RELAMPED. PROVIDE NEW LIGHT SWITCH.

CIRCUIT DESIGNATION:	
XX # X	CIRCUIT NUMBER IN RESPECTIVE PANEL INDICATED
PANEL DESIGNATION	
P1	PANEL PL-1-1
P2	PANEL PL-1-2
P3	PANEL PL-1-3
P4	PANEL PL-1-4
P5	PANEL PL-1-5
L1	PANEL LP-1-1
L2	PANEL LP-1-2
K1	PANEL KP-1-1
E1	PANEL PL-EQ1
E1	PANEL EM-P1
E2	PANEL EM-P2

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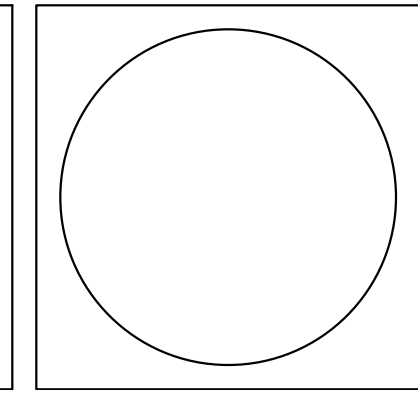
Project:
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30 WALL STREET
BINGHAMTON, NY 13901

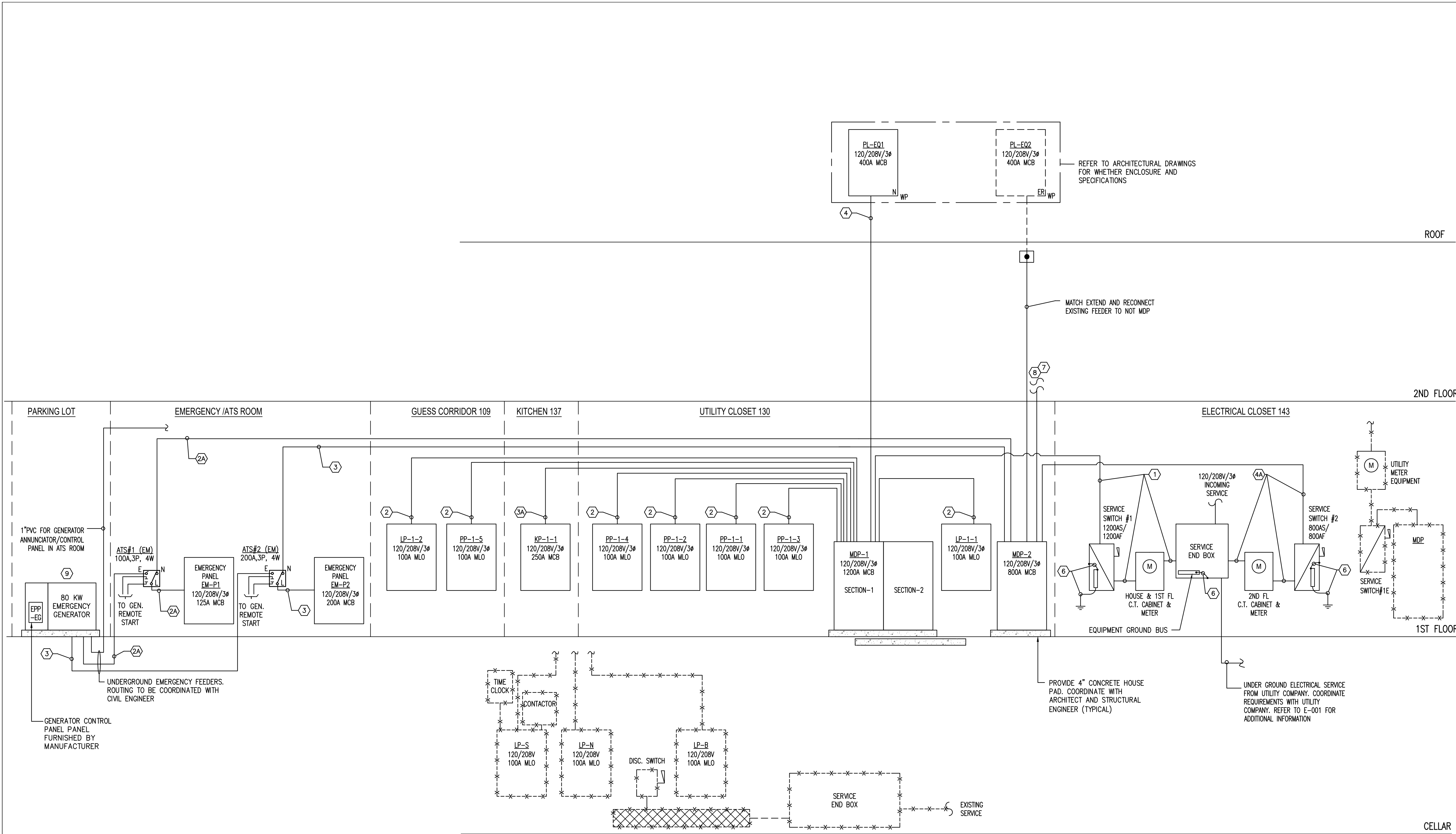
06	100% CD SET / BID AND PERMIT	08/19/25
05	100% REVIEW SET	06/16/25
04	95% CD SET	01/20/25
03	80% COORDINATION SET	08/07/24
02	ISSUED FOR PROGRESS	12/01/23
01	ISSUED FOR REVIEW	10/05/23
No: Description:		Date:
Revisions:		

Job No: 10015
Scale: AS SHOWN
Date: 10/02/23
Drawn: TL

Sheet Title:
**FIRST FLOOR ELECTRICAL
LIGHTING PLAN**



Drawing No.:
E-301



ELECTRICAL BLOCK RISER DIAGRAM
N.T.S.

LEGEND

- NEW WIRING AND EQUIPMENT
- - - EXISTING WIRING AND EQUIPMENT
- *-*-*-* EXISTING WIRING AND EQUIPMENT TO BE REMOVED
- [Symbol] FUSED DISCONNECT SWITCH, XXAS SWITCH SIZE, XXAF FUSE SIZE
- [Symbol] ELECTRICAL DISTRIBUTION PANEL
- [Symbol] UTILITY METER
- [Symbol] WIRE THROUGH

- RISER DIAGRAM GENERAL NOTES**
- ELECTRICAL EQUIPMENT, AND MATERIAL SHALL BE LISTED, LABELED, AND INSTALLED PER RECOGNIZED NYC ELECTRICAL TESTING LABORATORY.
 - PANELS AND SUB PANELS REQUIRE A LETTER ON LETTERHEAD FROM THE INSTALLER THAT THE TORQUE REQUIREMENTS HAVE BEEN MET TO THE MANUFACTURER'S INSTRUCTIONS.
 - TAPS TO THE PANELBOARD SHALL BE IN CONFORMANCE TO THE LISTING OF THE PANEL. THE EQUIPMENT USED TO MAKE THE TAP SHALL BE OF THE SAME MANUFACTURER AS THE PANELBOARD.
 - THE DESIGN TEMPERATURE OF THE CONDUCTORS AND THEIR TERMINATIONS SHALL BE 75°C.
 - ELECTRICAL CONTRACTOR TO PERFORM SHORT CIRCUIT STUDY, INCLUDING ACTUAL EQUIPMENT RATING, DISTANCES, FEEDER SIZES, ETC. COORDINATE ALL SHORT CIRCUIT RATING WITH EXISTING FIELD CONDITION, DISTANCES, UTILITY COMPANY, CODE REQUIREMENTS AND MANUFACTURER.
 - PARALLEL FEEDER CONDUCTORS SHALL BE CUT TO EXACTLY THE SAME LENGTHS AND SHALL BE FROM THE SAME FACTORY RUN. ALL CONNECTIONS FOR SAME FEEDER SHALL BE TORQUED TO IDENTICAL VALUES.
 - POWER DISTRIBUTION EQUIPMENT SUPPLIER SHALL PROVIDE EQUIPMENT APPROPRIATELY RATED AND BRACED TO ACCOMMODATE THE AVAILABLE FAULT CURRENT AT THE LOCATION IN THE ELECTRICAL DISTRIBUTION SYSTEM. THIS SUPPLIER SHALL ACCORDINGLY PROVIDE ANY RELATED CALCULATIONS SO THAT THEIR EQUIPMENT IS PROPERLY COORDINATED FOR THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THIS SUPPLIER WITH COPIES OF THE ELECTRICAL DOCUMENTS AS REQUIRED SO THAT PROPERLY RATED/BRACED EQUIPMENT IS PROVIDED UNDER BASE BID. ALL EQUIPMENT SHALL BE FULLY RATED.
 - WORKING CLEARANCES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT (SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, STARTERS, DISCONNECTS, ETC. AS APPLICABLE) IN STRICT COMPLIANCE WITH N.E.C. CHAPTER 1, SECTION 110-26(a). LOCATIONS SHOWN ON FLOOR PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE ABOVE N.E.C. REFERENCE. THIS REQUIREMENT APPLIES TO EQUIPMENT ON FLOOR PLANS AS WELL AS TO EQUIPMENT SHOWN ON RISER.
 - HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHT AS POSSIBLE TO THE BOTTOM OF THE OVERHEAD STRUCTURE. LOCATE ANY RELATED PULLBOXES SO THAT THEY WILL BE FULLY ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. AS WITH ALL WORK, COORDINATE IN ADVANCE WITH ALL OTHER TRADES.
 - ALL UNDERGROUND FEEDERS SHALL BE INSTALLED IN RIGID METAL CONDUITS INLESS APPROVED BY THE ENGINEER, COORDINATE DIMENSIONS BASED ON MINIMUM DISTANCE BETWEEN RACEWAYS REQUIRED BY CODE AND HEAT DISSIPATION.
 - ALL WORK OUTSIDE OF TENANT'S SPACE SHALL BE BY A LANDLORD APPROVED E.C. AT THE TENANT'S EXPENSE. VERIFY ALL WORK REQUIRED BY THE LANDLORD PRIOR TO BID.
 - TWO OR MORE CONDUCTORS THAT LAND ON A SINGLE LUG SHALL BE LISTED FOR THAT USE.
 - PROVIDE FACTORY SERIES COORDINATION FOR ALL CIRCUIT BREAKERS (INCLUDING ALL BRANCH BREAKERS), RELATIVE TO "UPSTREAM" BREAKERS, SO THAT ONLY THE BREAKER CLOSEST IN THE CIRCUIT TO THE LOAD TRIPS UPON AN OVERLOAD OR FAULT CONDITION.
 - ALL PANELS SHALL BE IN NEMA-1 ENCLOSURES.
 - E.C. TO VERIFY ALL EXISTING ACTIVE BRANCH CIRCUITS TO REMAIN QUANTITY, POLES, RATINGS & CONTROL LEVEL, THEN EC TO SPLICE AND EXTEND ALL ACTIVE BRANCH CIRCUITS TO NEW PANEL LOCATIONS OR NEXT AVAILABLE SPACE. EC IS RESPONSIBLE TO RECONNECT ALL ACTIVE BRANCH CIRCUITS TO MAINTAIN CONTINUITY.

- RISER KEYNOTES**
- PROVIDE 3 SETS OF 4-#600MCM - 1#3/0 GND IN 4°C.
 - PROVIDE 4-#3, 1#8 GND IN 1-1/2°C.
 - PROVIDE 4-#1, 1#6 GND IN 1-1/2°C.
 - PROVIDE 4-#3/0, 1#6 GND IN 2°C.
 - PROVIDE 4-#300, 1#6 GND IN 2 1/2°C.
 - PROVIDE 4-#500MCM, 1#3 GND IN 3°C.
 - PROVIDE 2 SETS OF 4-#600MCM, 1#1/0 GND IN 3°C.
 - PROVIDE 2 SETS OF 4-#350MCM, 1#1 GND IN 3°C.
 - PROVIDE 1-#1/0 AWG GROUNDING ELECTRODE CONDUCTOR FROM EQUIPMENT TO EARTH (GROUND). PROVIDE 1-#1/0 AWG MAIN BONDING JUMPER FROM EQUIPMENT GROUNDING BUS TO EQUIPMENT CASING.
 - DISCONNECT FEEDERS AND CUT BACK CABLE AND CONDUIT FOR THE FOLLOWING EQUIPMENT TO THE NEAREST FEASIBLE POINT FOR RECONNECTION:
 - 2ND FLOOR PANELBOARDS
 - 2ND FLOOR HVAC EQUIPMENTSHOULD CONDUIT RISERS BE PRESENT, LEAVE APPROXIMATELY 6" OF CONDUIT ABOVE THE FLOOR.
 - SURVEY AND VERIFY IN FIELD ALL EXISTING ELECTRICAL EQUIPMENT ON 2ND FLOOR. RECONNECT ALL EXISTING 2ND FLOOR ELECTRICAL PANELS. TAP EXISTING CONDUCTORS AND REFEED ELECTRICAL EQUIPMENT WITH APPROPRIATE CABLE AND CONDUIT. PROVIDE PROPER BREAKER SIZE AND WIRING. PROVIDE UPDATED PANEL SCHEDULE.
 - PROVIDE:
 - (1) MAIN NON AUTOMATIC CIRCUIT BREAKER 275A
 - (1) CIRCUIT BREAKER 100A (ATS#1)
 - (1) CIRCUIT BREAKER 200A (ATS#2)WITHIN GENERATOR ENCLOSURE.

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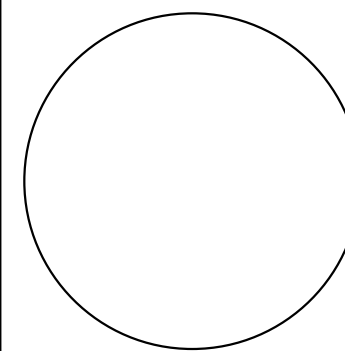
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BINGHAMTON, NY 13901

No:	Description:	Date:
06	100% CD SET / BID AND PERMIT	08/19/25
05	100% REVIEW SET	06/16/25
04	95% CD SET	01/20/25
03	80% COORDINATION SET	08/07/24
02	ISSUED FOR PROGRESS	12/01/23
01	ISSUED FOR REVIEW	10/05/23
Revisions:		

Job No: 10015
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Date: 10/02/23
Drawn: TL

Sheet Title:
ELECTRICAL RISER DIAGRAM



Drawing No.:

E-500

BRANCH CIRCUIT PANEL SCHEDULE															
PNL: PL-1-1 208Y/120, 3 PHASE, 4 WIRE			MOUNTING:	SURFACE		X	MAIN LUGS ONLY			X					
				FLUSH			SHUNT TRIP MAIN				Bus Rating: 100 A				
				IN MCC			FEED THRU LUG				GROUND BUS: X				
						NUMBER OF POLES:			42	ISOLATED GROUND BUS:					
CKT No.	LOAD	TRIP (AMP)	KVA / PHASE				KVA / PHASE			TRIP (AMP)	LOAD	CKT No.			
			A	B	C		A	B	C						
1	CH-1	20/3	1.00				0.63			20/2	EBB-2	2			
3				1.00				0.63				4			
5						1.00				0.38			6		
7				1.00				0.38			20/2	EBB-1	8		
9	CH-2	20/3		1.00				0.38		20/2	EBB-1	10			
11					1.00				0.38			12			
13				1.67				0.75		20/2		EBB-3	14		
15	CH-3	25/3		1.67				0.75				16			
17					1.67				0.60	20/1	WH-1	18			
19	HX-1	20/3	0.25				0.60			20/1	WH-2	20			
21				0.25				0.60		20/1	WH-3	22			
23					0.25				0.36	20	RECEPT. RPZ/VALVE RM.	24			
25			LIGHTING (PARKING LOT)	20	0.50				0.30				26		
27	SPARE	20		0.00				0.30				28			
29	SPARE	20			0.00				0.30	20/1	CP-1,2,3/LD/SV	30			
31	GX-1	20	0.20				0.60			20	CO	32			
33	SPARE	20		0.00				0.60		20	HWP-2	34			
35	REC EXTERIOR (GFCI)	20/2			0.18				1.10	20	B-1	36			
37				0.18						20	SPARE	38			
39			SPARE	20							20	SPARE	40		
41	SPARE	20								20	SPARE	42			
SUBTOTALS				4.80	3.92	4.10		3.26	3.26	3.12	SUBTOTALS				
TOTAL LOADS			8.1	KVA	PHASE A			LIGHTING:			0.00 KVA				
			7.2	KVA	PHASE B			RECEPTACLE:			0.18 KVA				
			7.2	KVA	PHASE C			KITCHEN:			0.00 KVA				
TOTAL CONN. LOAD			22.5	KVA	62.0	A	MOTOR:			22.28 KVA					
TOTAL DEMAND LOAD			22.5	KVA	62.0	A	POWER:			0.00 KVA					
							TOTAL:			22.46 KVA					

BRANCH CIRCUIT PANEL SCHEDULE															
PNL: PL-1-2 208Y/120, 3 PHASE, 4 WIRE		MOUNTING:	SURFACE		X	MAIN LUGS ONLY			X						
			FLUSH			SHUNT TRIP MAIN				Bus Rating: 100 A					
			IN MCC			FEED THRU LUG				GROUND BUS: X					
							NUMBER OF POLES:			30	ISOLATED GROUND BUS:				
CKT															
No.	LOAD	TRIP	KVA / PHASE				KVA / PHASE			TRIP	LOAD			CKT	
		(AMP)	A	B	C		A	B	C	(AMP)			No.		
1	REC - SYNAGOGUE 136A	20/1	0.54				0.54			20/1	REC - MAIN CORRIDOR 135		2		
3	REC - SOCIAL HALL 139	20/1		0.54				0.54		20/1	REC - MAIN CORRIDOR 135		4		
5	REC - SOCIAL HALL 139	20/1			0.36				0.54	20/1	REC - MAIN CORRIDOR 135		6		
7	REC - STORAGE 136B	20/1	0.36				0.36			20/1	REC - MAIN CORRIDOR 135		8		
9	VAV-2/TX-1	20/1		0.20				1.00		20/1	REC - WOMENS RESTROOM 116		10		
11	BEV. REFRIGERATOR	20/1			0.50				1.00	20/1	REC - MENS RESTROOM 117		12		
13	WATER FOUNTAIN	20/1	0.20				0.80			20/2	GATES (PARKING LOT)		14		
15	SPARE	20/1						0.80					16		
17	SPARE	20/1							0.80	20/2	GATES (PARKING LOT)		18		
19	SPARE	20/1					0.80						20		
21	SPARE	20/1								20/1	SPARE		22		
23	SPARE	20/1								20/1	SPARE		24		
25	SPARE	20/1								20/1	SPARE		26		
27	SPARE	20/1								20/1	SPARE		28		
29	SPARE	20/1								20/1	SPARE		30		
SUBTOTALS			1.10	0.74	0.86		2.50	2.34	2.34		SUBTOTALS				
TOTAL LOADS		3.6	KVA PHASE A				LIGHTING:			0.00	KVA				
		3.1	KVA PHASE B				RECEPTACLE:			5.78	KVA				
		3.2	KVA PHASE C				KITCHEN:			0.00	KVA				
TOTAL CONN. LOAD		9.9	KVA	27.0	A		MOTOR:			0.20	KVA				
TOTAL DEMAND LOAD		9.9	KVA	27.0	A		POWER:			3.90	KVA				
							TOTAL:			9.88	KVA				

BRANCH CIRCUIT PANEL SCHEDULE															
PNL: PL-1-3 208Y/120, 3 PHASE, 4 WIRE		MOUNTING:	SURFACE		X		MAIN LUGS ONLY			X					
			FLUSH				SHUNT TRIP MAIN					Bus Rating: 100 A			
			IN MCC				FEED THRU LUG					GROUND BUS: X			
								NUMBER OF POLES:			30		ISOLATED GROUND BUS:		
CKT			TRIP		KVA / PHASE				KVA / PHASE		TRIP	LOAD		CKT	
No.		LOAD	(AMP)	A	B	C		A	B	C	(AMP)			No.	
1	REC - CLAS/PROG/LIB 132/133/134	20/1	0.72					1.40			20/1	RECEPT. PWR/USB (LOBBY)	2		
3	REC - CLAS/PROG/LIB 132/133/134	20/1		0.72							20/1	SPARE	4		
5	REC - CLAS/PROG/LIB 132/133/134	20/1				0.54					20/1	SPARE	6		
7	REC - CLAS/PROG/LIB 132/133/134	20/1	0.54					0.72			20/1	REC - ADMIN/CONF 103/145	8		
9	REC - PROGRAMMING 133 KITCHEN	20/1		1.50					0.54		20/1	REC - ADMIN/CONF 103/145	10		
11	REC - LOBBY 102	20/1				0.54				0.54	20/1	REC - POSITIVITY SPACE 106	12		
13	REC - LOBBY/STAR VEST 102/141	20/1	0.36					0.72			20/1	REC - POSITIVITY SPACE 106	14		
15	REC - WOMENS WC 108	20/1		1.00					0.30		20/1	VAV-1,10/TX-3	16		
17	REC - MENS WC 107	20/1				1.00				0.30	20/1	TX-2,9/MD	18		
19	RECEPT. TV (LOBBY)	20/1	1.00					0.20			20/1	FIREPLACE (LOBBY)	20		
21	BEV. REFRIGERATOR (RM 133)	20/1		1.00					0.50		20/1	PROJECTOR (RM 132)	22		
23	RECEPT. TV (132/133)	20/1				1.00				0.30	20/2	AC-13	24		
25	SPARE	20/1						0.30					26		
27	SPARE	20/1									20/1	SPARE	28		
29	SPARE	20/1									20/1	SPARE	30		
SUBTOTALS				2.62	4.22	3.08		3.34	1.34	1.14	SUBTOTALS				
TOTAL LOADS			6.0	KVA	PHASE A			LIGHTING:			0.00 KVA				
			5.6	KVA	PHASE B			RECEPTACLE:			10.84 KVA				
			4.2	KVA	PHASE C			KITCHEN:			0.00 KVA				
TOTAL CONN. LOAD			15.7	KVA	44.0	A		MOTOR:			0.60 KVA				
TOTAL DEMAND LOAD			15.3	KVA	43.0	A		POWER:			4.30 KVA				
							TOTAL:			15.74 KVA					

BRANCH CIRCUIT PANEL SCHEDULE															
PNL: PL-1-4 208Y/120, 3 PHASE, 4 WIRE			MOUNTING:		SURFACE		☒	MAIN LUGS ONLY			☒				
					FLUSH			SHUNT TRIP MAIN							
					IN MCC		FEED THRU LUG				GROUND BUS:			☒	
										NUMBER OF POLES:			30	ISOLATED GROUND BUS:	
CKT	LOAD	TRIP (AMP)	KVA / PHASE				KVA / PHASE			TRIP (AMP)	LOAD	CKT			
No.			A	B	C	A	B	C							
1	SPARE	20/1	0.00				0.00			20/1	SPARE	2			
3	SPARE	20/1			0.00			0.00		20/1	SPARE	4			
5	SPARE	20/1				0.00			0.00	20/1	SPARE	6			
7	SPARE	20/1	0.00				0.00			20/1	SPARE	8			
9	SPARE	20/1			0.00			1.50		20/1	REC - KITCHEN 129	10			
11	SPARE	20/1				0.00			1.20	20/1	REC - KITCHEN 129 DISHWASHER	12			
13	REC - PARSONAGE BR 03 125	20/1	0.36				0.50			20/1	REC - KITCHEN 129 RANGE	14			
15	REC - PARSONAGE BR 02 124	20/1			0.36			1.50		20/1	REC - KITCHEN 129 MICROWAVE	16			
17	REC - PARSONAGE BR 01 123	20/1				0.36			0.70	20/1	REC - KITCHEN 129 REFRIGERATOR	18			
19	REC - PARSONAGE MASTER BR 12	20/1	0.54				0.50			20/1	REC - PARSONAGE LIVING RMW1X4	20			
21	REC - PARSONAGE MAST. BA 121B	20/1			0.50			0.36		20/1	REC - PARSONAGE LIVING RM	22			
23	REC - MIKVA	20/1				0.18			0.50	20/1	REC - P. RM 127	24			
25	EQP - MD	20/1	0.10				0.50			20/1	REC - BA 02 126	26			
27	REC - LOFT	20/1			0.54					20/1	SPARE	28			
29	SPARE	20/1								20/1	SPARE	30			
SUBTOTALS				1.00	1.40	0.54	1.50	3.36	2.40	SUBTOTALS					
TOTAL LOADS			2.5	KVA	PHASE A		LIGHTING			0.00 KVA					
			4.8	KVA	PHASE B		RECEPTACLE			9.38 KVA					
			2.9	KVA	PHASE C		KITCHEN			0.00 KVA					
TOTAL CONN. LOAD			10.2	KVA	28.0	A	MOTOR			0.00 KVA					
TOTAL DEMAND LOAD			10.2	KVA	28.0	A	POWER			0.82 KVA					
							TOTAL			10.20 KVA					

PANEL SCHEDULE						
PANEL : MDP-2		BUS RATING: 800 A			FULL NEUTRAL PLUS GROUND BUS	
208Y/120, 3 PHASE, 4 WIRE		MOUNTING: FLOOR			MCB: 800A	
MIN A.I.C. SYM						
CKT. NO.	SERVICE TO:	CONNECTED LOAD		PROTECTIVE DEVICE		FEEDER
				SWITCH	TRIP	
		KVA	AMPS	AMPS	AMPS	
1	EXISTING PANEL	28.80	80	100	100	CO
2	EXISTING PANEL	36.00	100	125	125	3
3	EXISTING PANEL	36.00	100	125	125	3
4	EXISTING PANEL	57.60	160	200	200	3
5	PLEQP2 (EXISTING)	115.20	320	400	400	3
6						
7						
8						
9						
10						
11						
12						
	CONNECTED LOADS	273.60	760.00			
	TOTAL DEMAND	236.80	657.78			

PANEL SCHEDULE						
PANEL : MDP-1 (SECTION-1 & SECTION-2) 208Y/120, 3 PHASE, 4 WIRE MIN A.I.C. SYM		BUS RATING: 1200 A		FULL NEUTRAL PLUS GROUND BUS		
		MOUNTING: FLOOR		MCB: 1200A		
CKT. NO.	SERVICE TO:	CONNECTED LOAD		PROTECTIVE DEVICE		FEEDER
				SWITCH	TRIP	
		KVA	AMPS	AMPS	AMPS	POLES
1	PL-1-1	22.50	62	100	100	3
2	PL-1-2	9.90	27	100	100	3
3	PL-1-3	15.70	44	100	100	3
4	PL-1-4	10.20	28	100	100	3
5	PL-1-5	15.00	42	100	100	3
6	KP-1-1	57.10	159	400	250	3
7	LP-EQ1	100.60	279	400	400	3
8	LP-1-1	19.70	55	100	100	3
9	EM-P1	27.30	76	125	200	3
10	EM-P2	48.30	132	200	200	3
11	CHARGING STATION	29.00	80	100	0	3
12	CHARGING STATION	29.00	80	100	0	3
CONNECTED LOADS		384.30	1064.00			
TOTAL DEMAND		289.19	803.29			

BRANCH CIRCUIT PANEL SCHEDULE													
PNL: EM-P1			MOUNTING:	SURFACE		☒	MAIN LUGS ONLY			MCB: 125A			
208Y/120, 3 PHASE, 4 WIRE				FLUSH			SHUNT TRIP MAIN			Bus Rating: 225 A			
SECTION 2				IN MCC			FEED THRU LUG			GROUND BUS: ☒			
								NUMBER OF POLES:		42	ISOLATED GROUND BUS:		
CKT	LOAD		TRIP	KVA / PHASE			KVA / PHASE			TRIP	LOAD		CKT
No.			(AMP)	A	B	C	A	B	C	(AMP)			No.
1	EM LIGHTING		20	1.76			0.10			20	EXIT SIGNS		2
3	EM LIGHTING		20		1.73			0.00		20	SPARE		4
5	SPARE		20			0.00			1.50	20	RECEPT PARSONAGE APT		6
7	LTG. SYNAGOG /SOCIAL HALL		20	1.68			1.31			20	REC - LOBBY 102		8
9	REC - OFFICE 103/145		20		0.54			1.40		20	REC - OFFICE 104/105		10
11	REC - OFFICE 103/145		20			0.54			1.40	20	REC - OFFICE 104/106		12
13	RECEPT. SYNAGOG /SOCIAL HALL		20	1.10			1.40			20	REC - OFFICE 104/106		14
15	LIGHTING (CELLAR)		20		0.60			1.50		20	KITCHEN (137)		16
17	SPARE		20			0.00			1.60	20	WIFI RECEPTACLE (4)		18
19	RECEPTACLE IT/AV (RM 135C)		20	1.60			1.50			20	RECEPT. - PWR/USB LOBBY 102		20
21	RECEPTACLE IT/AV (RM 135C)		20		1.60			0.00		20	SPARE		22
23	RECEPTACLE IT/AV (RM 135C)		20			1.60			0.75	20/2	E-026 FREEZER 137B (KITCHEN)		24
25	SPARE		20	0.00				0.75		20/2			26
27	SPARE		20		0.00			0.30		20/2	E-025 (WALK-IN COOLER)		28
29	SPARE		20			0.00			0.30				30
31	SPARE		20	0.00				0.00		20	SPARE		32
33	SPARE		20		0.00			0.00		20	SPARE		34
35	SPARE		20			0.00			0.00	20	SPARE		36
37	SPARE		20	0.00				0.73		20	SPARE		38
39	SPARE		20							20	SPARE		40
41	SPARE		20							20	SPARE		42
SUBTOTALS				6.14	4.47	2.14	5.79	3.20	5.55	SUBTOTALS			
TOTAL LOADS			11.9	KVA	PHASE A		LIGHTING				5.87 KVA		
			7.7	KVA	PHASE B		RECEPTACLE				19.32 KVA		
			7.7	KVA	PHASE C		KITCHEN				0.00 KVA		
TOTAL CONN. LOAD			27.3	KVA	76.0	A	MOTOR				2.10 KVA		
TOTAL DEMAND LOAD			24.1	KVA	67.0	A	POWER				0.00 KVA		
							TOTAL				27.29 KVA		

BRANCH CIRCUIT PANEL SCHEDULE																
PNL: EM-P2 208Y/120, 3 PHASE, 4 WIRE (EXISTING)			MOUNTING:		SURFACE		X	MAIN LUGS ONLY					MCB: 200A Bus Rating: 225 A GROUND BUS: ISOLATED GROUND BUS:			
						FLUSH				SHUNT TRIP MAIN						
						IN MCC				FEED THRU LUG						
										NUMBER OF POLES:		42				
CKT No.	LOAD		TRIP (AMP)	KVA / PHASE						KVA / PHASE			TRIP (AMP)	LOAD		CKT No.
			A	B	C			A	B	C						
1	CU-2	50/3	3.80				7.70				90/3	RTU-5	2			
3				3.80				7.70						4		
5					3.80				7.70						6	
7	VAV-4,5,6,7,8	20	0.20				0.10				20/2	AC-7	8			
9	AC-6	20/2	0.10					0.10			20/2	AC-9	10			
11				0.10				0.10					12			
13	AC-8	20/2			0.10		0.10				20/2	AC-11	14			
15			0.10				0.10			16						
17	AC-10	20/2		0.10				0.10			20/2	AC-4	18			
19					0.10		0.10			20						
21	AC-1	20/2			0.10			0.10			20/2	AC-5	22			
23					0.10		0.10			24						
25	AC-2	20/2	0.10				0.10				20/2	CU-1	26			
27					0.10			3.80					28			
29	AC-3	20/2			0.10				3.80		50/3		30			
31			0.10							32						
33	SPARE	20									20	SPARE	34			
35	SPARE	20									20	SPARE	36			
37	SPARE	20									20	SPARE	38			
39	SPARE	20									20	SPARE	40			
41	SPARE	20									20	SPARE	42			
SUBTOTALS				4.40	4.20	4.20		11.90	11.80	11.80	SUBTOTALS					
TOTAL LOADS			16.3	KVA	PHASE A			LIGHTING:			0.00 KVA					
			16.0	KVA	PHASE B			RECEPTACLE:			0.20 KVA					
			16.0	KVA	PHASE C			KITCHEN:			0.00 KVA					
TOTAL CONN. LOAD			48.3	KVA	132.0	A	MOTOR:			47.50 KVA						
TOTAL DEMAND LOAD			47.7	KVA	132.0	A	POWER:			0.00 KVA						
< Load & Total not equal >									TOTAL:			47.70 KVA				

BRANCH CIRCUIT PANEL SCHEDULE													
PNL: PL-EQ1 208Y/120, 3 PHASE, 4 WIRE			MOUNTING:	SURFACE		X	MAIN LUGS ONLY			X	Bus Rating: 400 A		
				FLUSH			SHUNT TRIP MAIN						
						IN MCC			FEED THRU LUG				GROUND BUS: X
							NUMBER OF POLES:			42	ISOLATED GROUND BUS:		
CKT No.	LOAD	TRIP (AMP)	KVA / PHASE				KVA / PHASE			TRIP (AMP)	LOAD	CKT No.	
			A	B	C		A	B	C				
1	RTU-1	90/3	8.00			E	1.30			30/3	CU-3	2	
3			8.00				1.30					4	
5				8.00				1.30					6
7	RTU-3	90/3	7.68				3.96			45/3	RTU-8	8	
9			7.68				3.96					10	
11				7.68				3.96					12
13	CU-4	30/3	2.30				0.80			20/3	KX-1	14	
15			2.30				0.80					16	
17				2.30				0.80					18
19	SPARE	20	0.00				1.20			20	DXF-1	20	
21	SPARE	20		0.00						20	SPARE	22	
23	SPARE	20			0.00					20	SPARE	24	
25	SPARE	20								20	SPARE	26	
27	SPARE	20								20	SPARE	28	
29	SPARE	20								20	SPARE	30	
31	SPARE	20								20	SPARE	32	
33	SPARE	20								20	SPARE	34	
35	SPARE	20								20	SPARE	36	
37	SPACE									SPACE	38		
39	SPACE									SPACE	40		
41	SPACE									SPACE	42		
SUBTOTALS				17.98	17.98	17.98	7.26	6.06	6.06	SUBTOTALS			
TOTAL LOADS			37.2	KVA	PHASE A		LIGHTING:			5.87 KVA			
			31.7	KVA	PHASE B		RECEPTACLE:			19.32 KVA			
			31.7	KVA	PHASE C		KITCHEN:			0.00 KVA			
TOTAL CONN. LOAD			100.6	KVA	279.0	A	MOTOR:			75.42 KVA			
TOTAL DEMAND LOAD			97.4	KVA	270.0	A	POWER:			0.00 KVA			
							TOTAL:			100.61 KVA			

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to UL 1479 and CANULC-S115

System No. W-L-3065

ANSI/UL1479 (ASTM E814)

CANULC S115

F Ratings — 1 and 2 Hr (See Item 1)

F Ratings — 1 and 2 Hr (See Item 1)

T Rating — 0 and 3/4 Hr (See Item 3)

FT Rating — 0 and 3/4 Hr (See Item 3)

L Rating At Ambient — 15 CFM/sq ft

FH Ratings — 1 and 2 Hr (See Item 1)

L Rating At 400 F — 8 CFM/sq ft

FTH Rating — 0 and 3/4 Hr (See Item 3)

L Rating At Ambient — 15 CFM/sq ft

L Rating At 400 F — 8 CFM/sq ft

1. Wall Assembly — The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board — Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed.

2. Metallic Sleeve — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, No. 28 galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces. As an option when Schedule 5 steel pipe or EMT is used, sleeve may extend continuously beyond one wall surface. When cable bundle penetrates wall assembly at an angle of 45 degrees, no metallic sleeve is used.

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to UL 1479 and CANULC-S115

System No. W-L-3065

ANSI/UL1479 (ASTM E814)

CANULC S115

F Ratings — 1 and 2 Hr (See Item 1)

F Ratings — 1 and 2 Hr (See Item 1)

T Rating — 0 and 3/4 Hr (See Item 3)

FT Rating — 0 and 3/4 Hr (See Item 3)

L Rating At Ambient — 15 CFM/sq ft

FH Ratings — 1 and 2 Hr (See Item 1)

L Rating At 400 F — 8 CFM/sq ft

FTH Rating — 0 and 3/4 Hr (See Item 3)

L Rating At Ambient — 15 CFM/sq ft

L Rating At 400 F — 8 CFM/sq ft

3. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. (25 mm). When sleeve is continuous on one side of wall (see Item 2), the cable fill may be 0 to 45% and the max annular space is not limited. Cables to be rigidly supported on both sides of the wall assembly. Cable bundle, using cables described below, may penetrate the wall at an angle not greater than 45 degrees. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.

B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.

C1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.

C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 3/4 in. (13 mm).

C1. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.

D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).

E. Through Penetrating Products* — Max three copper conductor No. 8 AWG .Metal-Clad Cable+.

AFC CABLE SYSTEMS INC

F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.

G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.

H. Fire Resistive Cables* — Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.

I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.

J. Through Penetrating Product* - Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.

K. Maximum 3/C No. 8 AWG metal-clad cable.

L. Maximum 5/8 diam fiber-optic cable with PVC jacket.

For cable bundle penetrating the wall assembly at an angle of 45 degrees, the T rating is 1/2 hr for a 2 hr wall assembly.

See Through Penetrating Product (XHLTY) category in the Fire Resistance Directory for names of manufacturers.

4. Fill, Void or Cavity Material* — Sealant or Putty — Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating. An additional 1/2 in. (13 mm) diam bead of fill material shall be applied at the interface of sleeve with gypsum board.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-One Sealants or CP618 Putty

5. Packing Material — (Optional, Not Shown) — Mineral wool forming material may be used as a backer for the fill material (Item 4). When used, it shall be firmly packed into annular space within the sleeve as a permanent form and recessed from end of sleeve to accommodate the required thickness of fill material.

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to UL 1479 and CANULC-S115

System No. W-L-1054

ANSI/UL1479 (ASTM E814)

CANULC S115

F Ratings —1 and 2 Hr (See Items 1 and 3)

F Ratings —1 and 2 Hr (See Items 1 and 3)

T Rating — 0 Hr

FT Rating — 0 Hr

L Rating at Ambient — Less Than 1 CFM/sq ft

FH Ratings —1 and 2 Hr (See Items 1 and 3)

L Rating at 400 F — Less Than 1 CFM/sq ft

FTH Rating — 0 Hr

L Rating at Ambient — Less Than 1 CFM/sq ft

L Rating at 400 F — Less Than 1 CFM/sq ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.

The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.

C. Conduit — Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.

D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe — Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

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1 METAL PIPE THROUGH CONCRETE FLOORING / WALL (2-HR.)

NOTES:

- CONTRACTOR MAY USE A CONDUIT SUSPENSION SYSTEM EQUIVALENT TO THAT WHICH IS DETAILED, HAVING THE FEATURES SHOWN AND APPROVED IN ADVANCE BY THE ENGINEER.
- CONDUIT SUSPENSION SYSTEM SHALL BE INDEPENDENT OF ANY OTHER SUSPENSION SYSTEM
- SHOP DRAWINGS DETAILING. THE INSTALLATION AND LAYOUT OF CONDUIT SUPPORTING SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO START OF WORK.

2 CONDUIT HANGER DETAIL

3 PANELBOARD WITH DOOR-IN-DOOR TRIM TYPE

4 ARC FLASH LABEL

NOTES:

- PROVIDE GENERIC ARC-FLASH LABELS AS SHOWN ON ALL ELECTRIC LOAD CENTERS, PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, MOTOR CONTROLLERS, VFDS, ATS, ENCLOSED SWITCHES AND CIRCUIT BREAKERS, CONTROL PANELS, SPLICE BOXES AND ALL OTHER ELECTRICAL SERVICE & DISTRIBUTION EQUIPMENT.
- LABELS TO COMPLY WITH NFPA 700, NFPA 70E, 29 CFR 1910.144, 29 CFR 1910.145 (OSHA) AND ANSI Z535 (COLORS, SYMBOLS, ETC.)
- LABELS SHALL BE SELF-ADHESIVE, POLYESTER OR VINYL FILM LABELS; PREPRINTED, 6-MIL-THICK, FLEXIBLE LABEL LAMINATED WITH A CLEAR, WEATHERPROOF, UV-RESISTANT, CHEMICAL RESISTANT COATING. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH.
- INSTALL IDENTIFICATION MATERIALS AND DEVICES AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MAINTENANCE OF EQUIPMENT. APPLY TO EXTERIOR OF DOOR, COVER, OR OTHER ACCESS.

5 CONDUIT CEILING SUPPORT- SINGLE RACK

NOTES:

- LENGTH VARIES WITH NUMBER OF CONDUITS TO BE SUPPORTED.
- UNISTRUT WITH ALLOWABLE LOADING PER MANUFACTURER'S RECOMMENDATIONS.
- FOR SUPPORT IN CONCRETE, USE SWIVEL CONCRETE INSERTS, AS SHOWN.
- SUBMIT STRUCTURAL ENGINEERING CALCULATIONS BY A REGISTERED ENGINEER IN THE STATE OF CALIFORNIA TO KOCHER & SCHIRRA FOR REVIEW AND APPROVAL PRIOR TO STARTING CONSTRUCTION.

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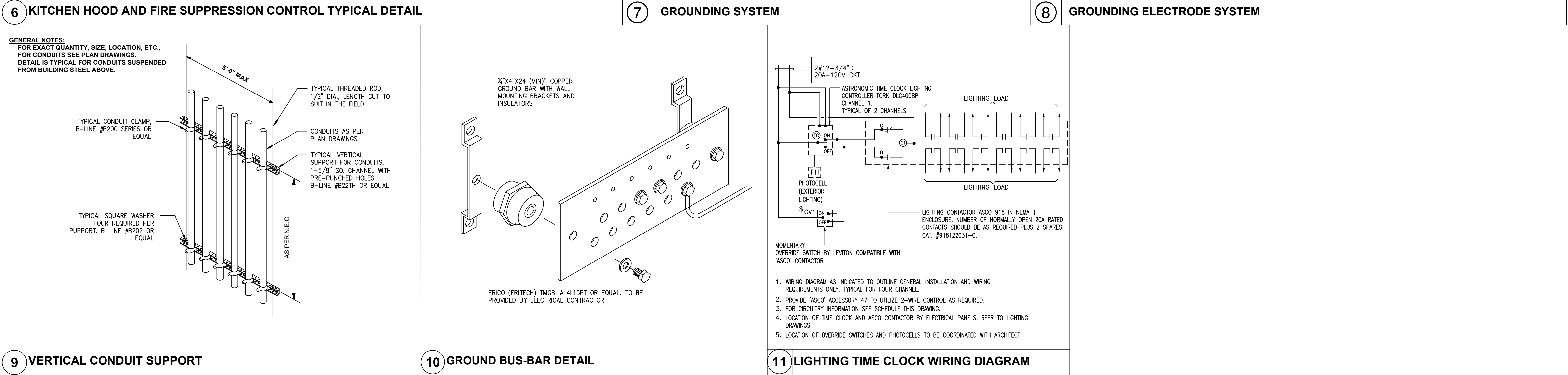
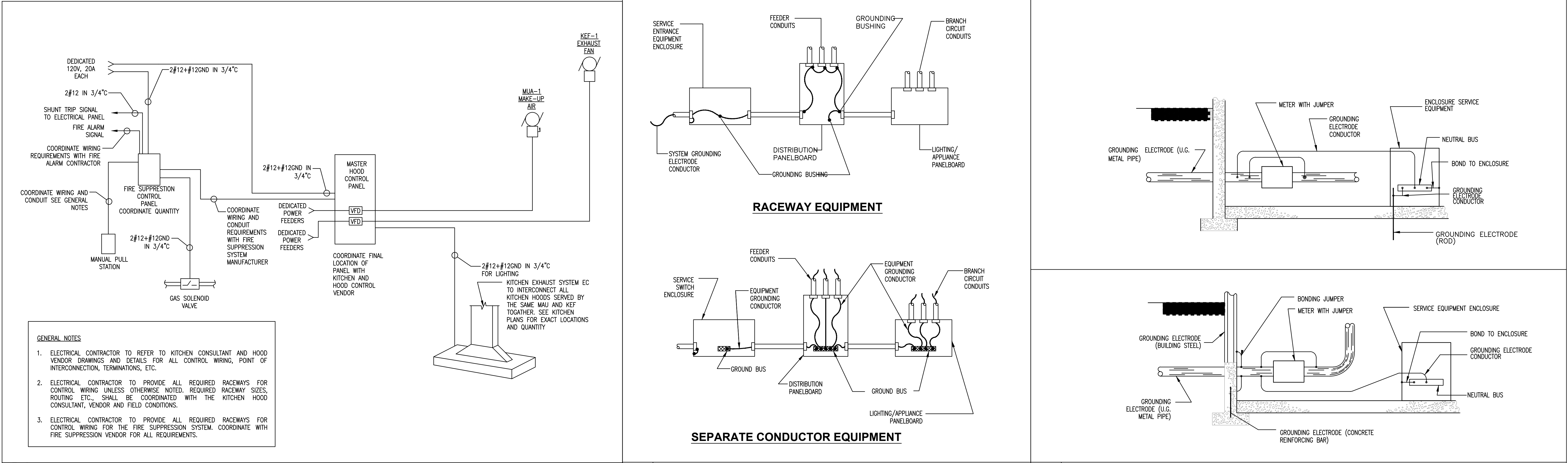
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05	100% REVIEW SET	06/16/25
04	95% CD SET	01/20/25
03	80% COORDINATION SET	08/07/24
02	ISSUED FOR PROGRESS	12/01/23
01	ISSUED FOR REVIEW	10/05/23
No:	Description:	Date:
Revisions:		

Job No: 10015
Scale: AS SHOWN
Date: 10/02/23
Drawn: TL

Sheet Title:
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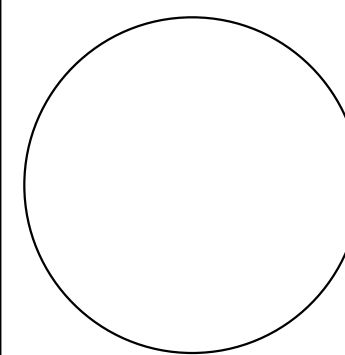
Project:
CHABAD DOWNTOWN

30 WALL STREET
BINGHAMTON, NY 13901

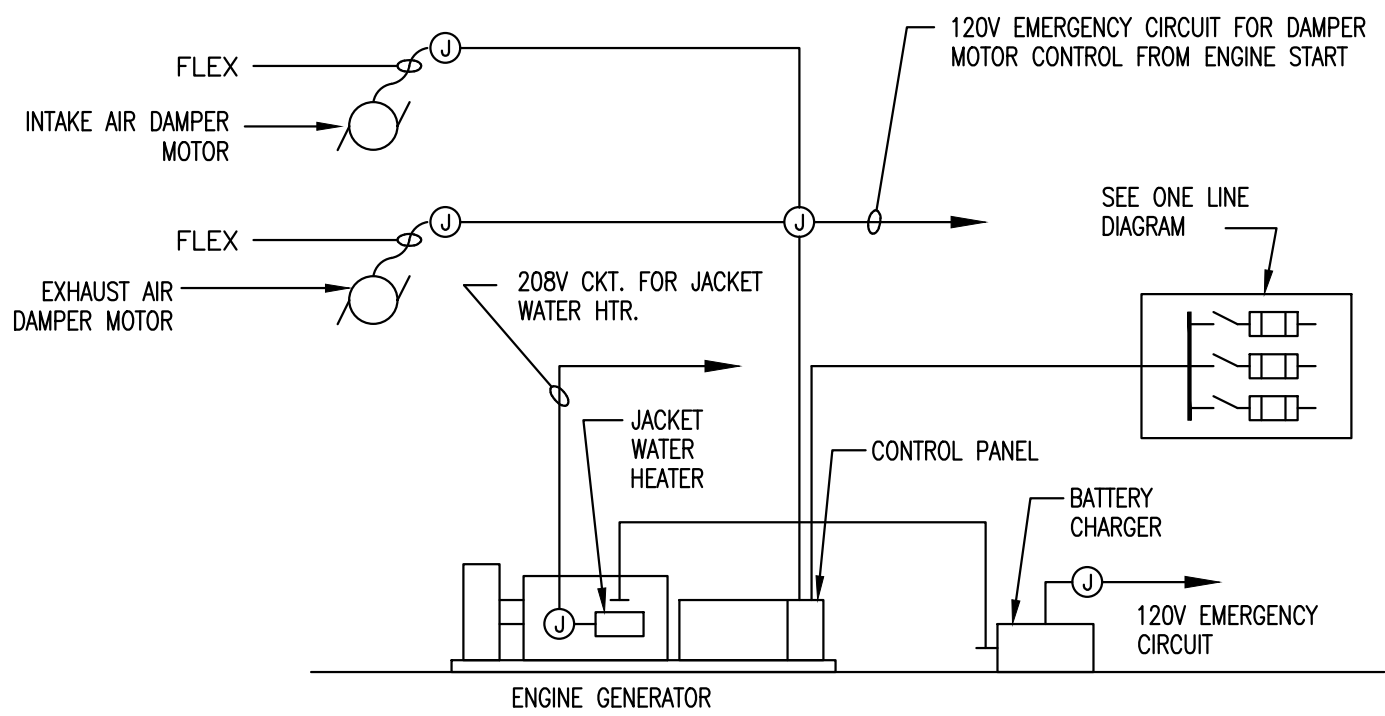
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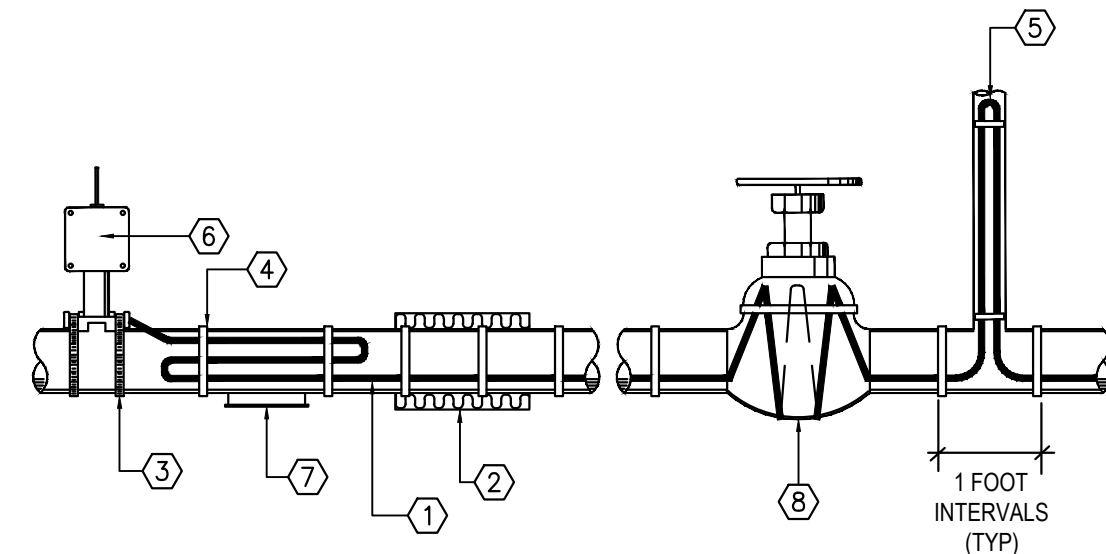
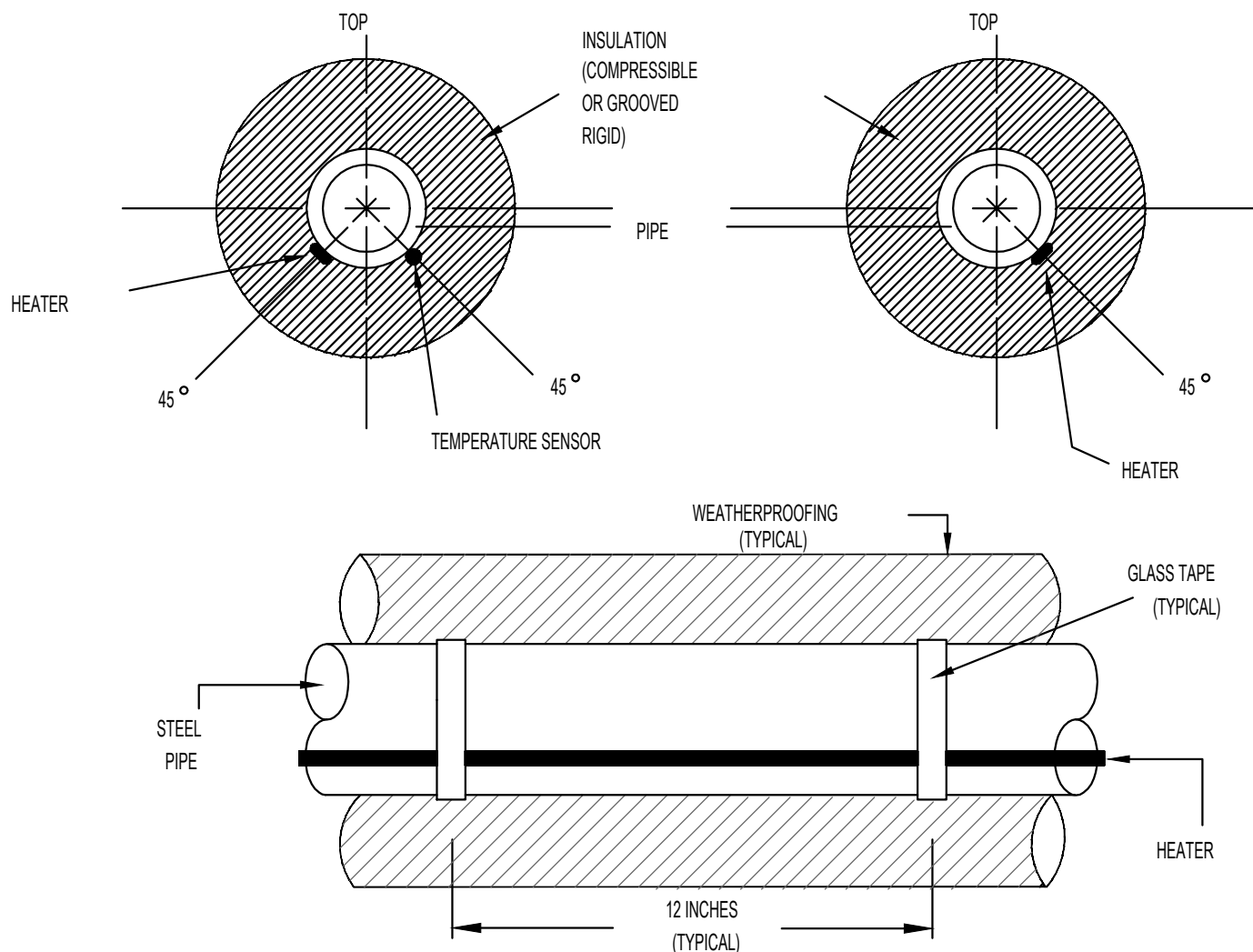
Sheet Title:
ELECTRICAL DETAILS II



Drawing No.:
E-701



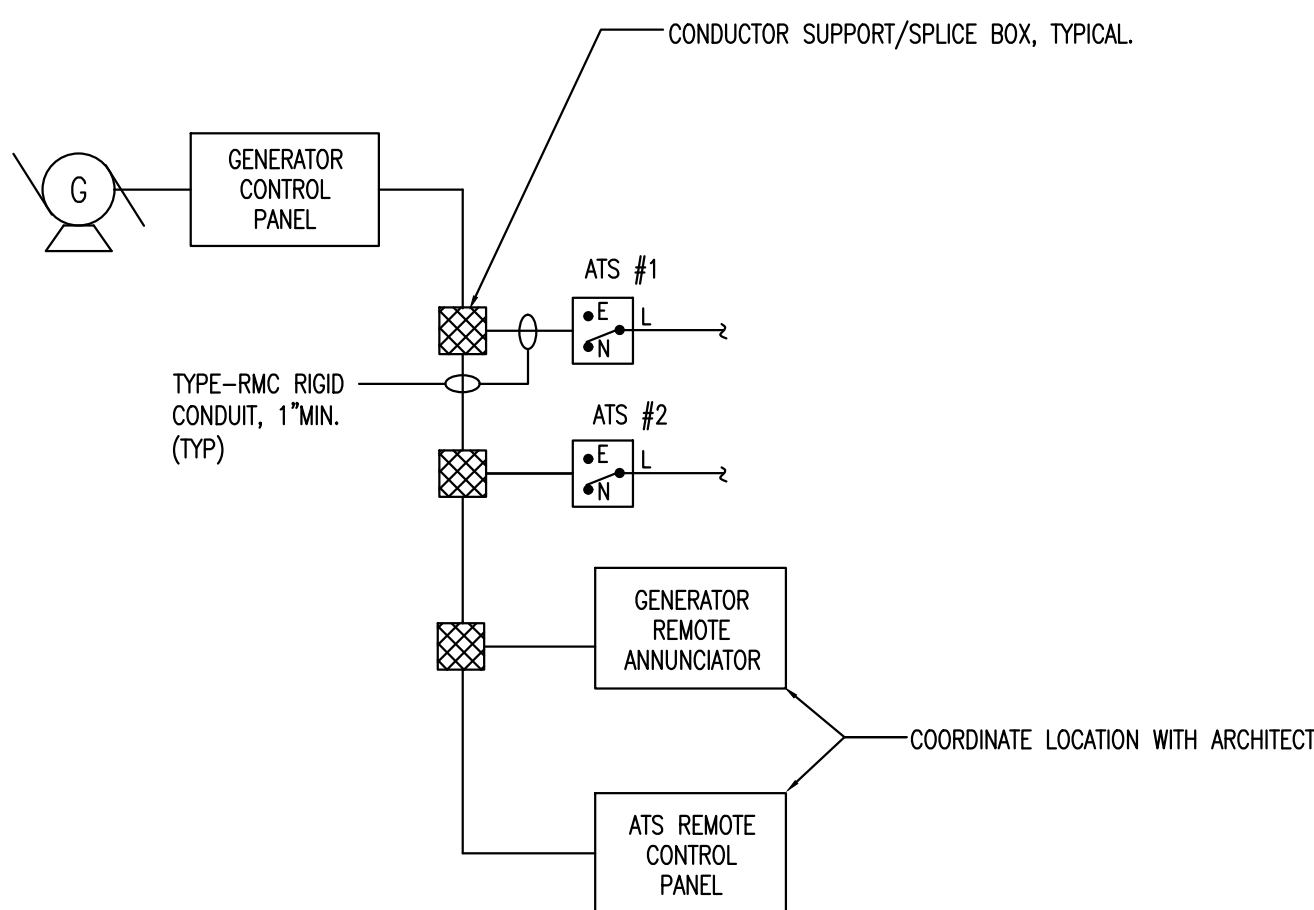
IMPORTANT
THE DETAIL BELOW SHOWS THE
GENERAL INSTALLATION METHOD.



- NOTES:**
- HEATING CABLE
 - INSULATION
 - STAINLESS STEEL CLAMPS
 - FIBERGLASS TAPE
 - HEATING CABLE LOOP
 - POWER CONNECTION KIT WITH CABLE POWER SEAL KIT
 - PIPE SUPPORT
 - VALVE

HEATING CABLE POWER CONNECTIONS AND END
SEALS ARE REQUIRED FOR EACH HEATER.

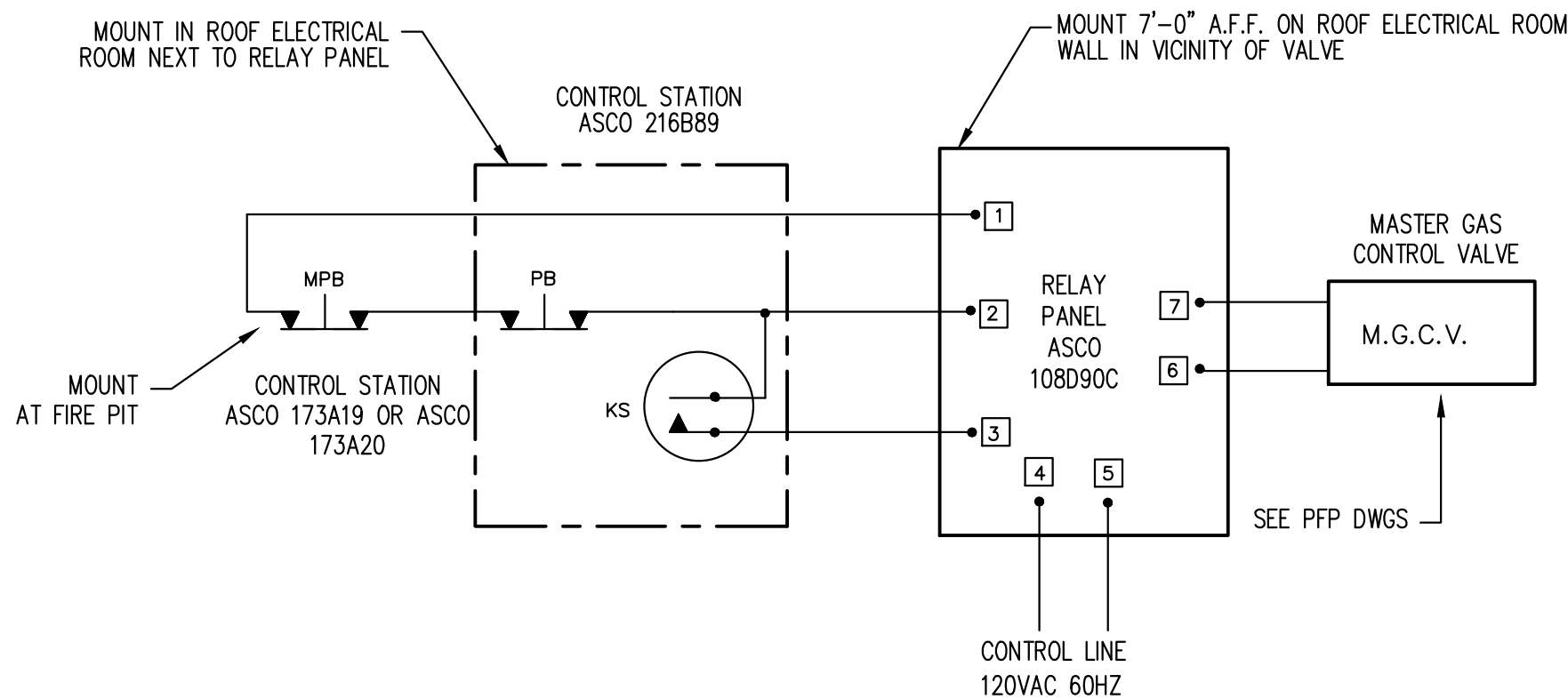
12 GENERATOR ACCESSORIES



- NOTES:**
- CONTRACTOR SHALL COORDINATE ALL CONTROLS WIRING REQUIREMENTS WITH VENDORS OF ALL EQUIPMENT.
 - CONTRACTOR TO SUBMIT DETAILED, POINT-TO-POINT WIRING DIAGRAM TO ENGINEER FOR REVIEW & APPROVAL.
 - ALL CONTROL WIRING SHALL MEET THE REQUIREMENTS OF NFPA 70, ARTICLE 700.9(D); INCLUDING ROUTING AND PROTECTION REQUIREMENTS.
 - AC POWER TO ALL CONTROLS SHALL BE FROM LOAD SIDE OF EMERGENCY POWER ATS.
 - QUANTITY OF ATS, DESIGNATIONS AND LOADS SERVED ARE TYPICAL. REFER TO ELECTRICAL ONE-LINE / RISER DIAGRAMS AND OTHER CONTRACT DOCUMENTS FOR SPECIFIC INFORMATION.

15 TYPICAL GENERATOR CONTROLS WIRING DIAGRAM

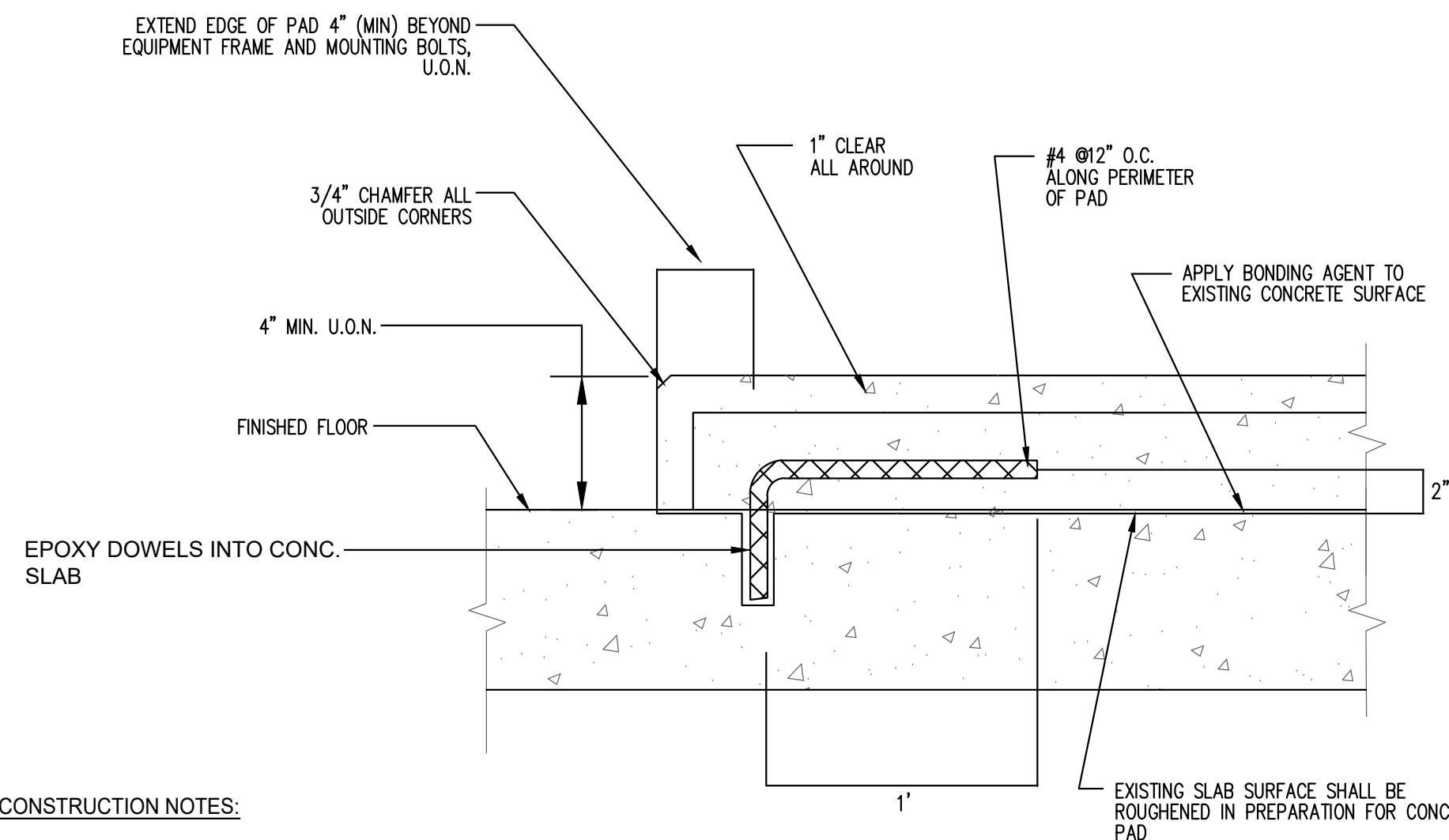
13 TYPICAL PLACEMENT OF HEAT TRACE AND TEMPERATURE SENSOR



SYMB	ABB	DESCRIPTION
	MPB	MUSHROOM TYPE PUSHBUTTON SWITCH
	PB	PUSHBUTTON SWITCH
	KS	KEY-OPERATED SWITCH

16 MASTER GAS CONTROL VALVE SCHEMATIC WIRING DIAGRAM

14 HEAT TRACING DETAIL



- CONSTRUCTION NOTES:**
- SIZE PAD DIMENSIONS AND ANCHOR BOLTS TO SUIT EQUIPMENT.
 - PROVIDE 3000 PSI CONCRETE MINIMUM.
 - PROVIDE SMOOTH AND LEVEL FINISH WITH STEEL TROWEL OR FLOAT.

17 CONCRETE HOUSEKEEPING PAD DETAIL

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ELECTRICAL DETAILS III

Drawing No.:

E-702

ALL MAGNETIC STARTERS SHALL BE EQUIPPED WITH EXTERNAL PILOT LIGHTS (COLOR AS DIRECTED), EXTERNAL RESET BUTTON, EXTERNAL NON- FUSED DISCONNECT SWITCH AND EXTERNAL HOA SELECTOR SWITCHES IN COVER AND WITH AUXILIARY CONTACTS AND WITH FUSED CONTROL TRANSFORMERS. ALL STARTERS SHALL BE SIZED ACCORDING TO LOAD BEING SERVED. MANUAL AND MAGNETIC STARTERS THERMAL OVERLOAD ELEMENTS SHALL BE RATED BETWEEN 115% AND 125% FULL LOAD CURRENT OR AS CALLED FOR UNDER NEC. COORDINATE OVERLOAD REQUIREMENTS WITH RESPECTIVE EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

MULTI-PURPOSE TIME CLOCKS SHALL BE EQUAL TO YORK #T930L-E (OR EQUAL BY PARAGON, INTERMATIO). TIME CLOCKS SHALL BE PHOTOCELL INITIATED, 7-DAY, 24 HOUR WITH EXTERNAL ACCESSIBILITY OF OVERRIDE CONTROLS. UNIT SHALL BE 3 ZONE (1-TIMER CONTROL ONLY, 1-PHOTOCELL CONTROL ONLY AND 1-PHOTOCELL CONTROL ON/TIMER CONTROL OFF). PROVIDE ALL REQUIRED EXTERNAL CONTACTORS, RELAYS, ETC. TO RENDER THE CONTROL SYSTEM FULLY OPERATIONAL. VERIFY ZONE CONTROL REQUIREMENTS IN FIELD PRIOR TO ROUGH-IN. PROVIDE POWER CARRYOVER.

TRANSFORMERS SHALL BE OPEN VENTILATED, DRY TYPE, CLASS H INSULATION, 150°C TEMPERATURE RISE. WINDINGS SHALL BE COPPER. PRIMARY AND SECONDARY WINDING SHALL BE DELTA AND WYE TYPE INCLUDING STEP UP TRANSFORMER OTHER TYPES OF WINDING SHALL BE NOTED. PRIMARY TAPS (6-2 ½% TAPS, 2 ABOVE AND 4 BELOW RATED VOLTAGE) SHALL BE PROVIDED ADJUST FOR REQUIRED VOLTAGE.

20. ELECTRICAL PANELBOARDS

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PANELBOARD PRODUCTS OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING OF PANELBOARD AND ENCLOSURE): SQUARE D COMPANY, GENERAL ELECTRIC COMPANY, SIEMENS/ITE, WESTINGHOUSE/CUTLER-HAMMER.

PANELBOARDS SHALL BEAR UL LABELS FOR THEIR SPECIFIC APPLICATIONS. PANELBOARDS SHALL BE SUITABLE FOR SERVICE VOLTAGE WITH NUMBER OF BRANCH CIRCUITS OF CAPACITY SCHEDULED. UNLESS OTHERWISE INDICATED, PANELBOARDS AND SECTIONS THEREOF, IF ANY, SHALL HAVE MAIN LUGS ONLY OF CAPACITY EQUAL TO, OR GREATER THAN, THE RATING OR SETTING OF THE OVER THE CURRENT PROTECTIVE DEVICE NEXT BACK ON THE LINE. ALL CIRCUIT BREAKER PANELBOARD BUS ASSEMBLIES SHALL BE OF THE DISTRIBUTED (SEQUENCE) BUSSING TYPE THROUGHOUT, SO THAT ANY 2 ADJACENT SINGLE POLE BREAKERS AND/OR SPACES SHALL BE REPLACEABLE BY A 2 POLE INTERNAL COMMON TRIP BREAKER, AND ANY 3 ADJACENT SINGLE POLE BREAKERS AND/OR SPACES SHALL BE REPLACEABLE BY A 3 POLE INTERNAL COMMON TRIP BREAKER, 15 AMP THROUGH 70 AMP INCLUSIVE, WITHOUT DISTURBING ANY OTHER BREAKER. ALL PANELBOARDS SHALL BE UL LISTED AND LABELED FOR USE AS SERVICE ENTRANCE EQUIPMENT WHERE BEING USED AS SUCH.

DISTRIBUTION PANELS SHALL BE EQUAL TO SQUARE D I-LINE.

208Y/120V LIGHTING AND APPLIANCE PANELBOARDS SHALL BE EQUAL TO SQUARE D NODD WITH BOLT-ON BRANCH BREAKERS.

ALL BUSSING SHALL BE COPPER.

ALL BRANCH CIRCUIT BREAKERS SHALL BE FULL AMBIENT COMPENSATED THERMAL MAGNETIC MOLDED CASE WITH QUICK-MAKE AND QUICK-BREAK ACTION AND POSITIVE HANDLE TRIP INDICATION, BOTH ON MANUAL AND ON AUTOMATIC OPERATION. BREAKERS SHALL BE OF THE OVER-THE-CENTER TOGGLE OPERATING TYPE WITH THE HANDLE GOING TO A POSITION BETWEEN "ON" AND "OFF" TO INDICATE AUTOMATIC TRIPPING.

ALL CIRCUIT BREAKERS SHALL BE FULL SIZE. "TANDEM" OR "SPLIT" BREAKERS SHALL NOT BE PERMITTED. ALL MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP WITH ALL LOAD SIDE BOX LUGS OF ONE BREAKER IN THE SAME GUTTER. ALL CIRCUIT BREAKERS SHALL HAVE SEALED CASES TO PREVENT TAMPERING. ALL 15 AND 20 AMPERE BRANCH CIRCUIT BREAKERS SHALL BE UL LISTED AS SWD (SWITCHING DUTY). ALL 15-70 AMPERE BRANCH CIRCUIT BREAKERS SHALL BE HACR TYPE. ALL GFI CIRCUIT BREAKERS SHALL BE UL CLASS A WITH MAXIMUM THRESHOLD OF 5 MA. ALL BRANCH CIRCUIT BREAKERS SERVING ALL BALLASTED (FLUORESCENT/HID) LIGHTING LOADS SHALL BE HID RATED.

PROVIDE ALL ELECTRICAL DISTRIBUTION RELATED EQUIPMENT WITH APPROPRIATELY BRACED BUSSING AND PROPERLY RATED BREAKERS, FUSES, ETC. FOR THE AVAILABLE FAULT CURRENTS.

IN EXISTING BUILDINGS WHERE FAULT CURRENT VALUES ARE NOT INDICATED ON DRAWINGS, COORDINATE WITH EXISTING "UPSTREAM" DISTRIBUTION EQUIPMENT PROVIDE EQUIPMENT AIC RATINGS TO MEET OR EXCEED SAME.

FILL OUT PANELBOARD'S CIRCUIT DIRECTORY CARD UPON COMPLETION OF INSTALLATION WORK. DIRECTORIES SHALL BE NEATLY TYPEWRITTEN. ALL PANELBOARD DIRECTORIES SHALL INCLUDE THE ACTUAL ROOM NAMES/NUMBERS THAT ARE SELECTED FOR INTERIOR SIGNAGE/DESIGNATION.

21. TELEPHONE AND SYSTEM

FURNISH AND INSTALL A SYSTEM OF CONDUIT RACEWAYS. OUTLET BOXES AND PULL WIRES AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE NOTED ON PLANS. TELEPHONE SWITCHING APPARATUS, CONDUCTORS, INSTRUMENTS, MISCELLANEOUS EQUIPMENT AND APPURTENANCES ARE NOT PART OF THIS CONTRACT AND WILL BE PROVIDED AND INSTALLED BY NY&CO.

OUTLET BOXES TO BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE.

CONDUIT RUNS FROM TELEPHONE EQUIPMENT BOARD IN THE BACK OF HOUSE FOR TELEPHONE AND DATE LINES TO CASHWRAP ARE TO BE CONTINUOUS WITH NO JUNCTION BOXES EXCEPT AS NOTED OTHERWISE ON DRAWINGS.

ALL PULL WIRES ARE TO BE LABELED FOR PURPOSE DESIGNATED.

NO OTHER CIRCUITS ARE TO BE RUN IN SAME CONDUIT FEEDING ISOLATED GROUND RECEPTACLES.

TESTS AND ADJUSTMENTS

ALL CONNECTIONS AT PANELS, LIGHTING, CONTACTORS AND SWITCHES ARE TO BE MADE. ALL SPLICES COMPLETE. ALL FUSES IN PLACE AND ALL CIRCUITS CONTINUOUS FROM POINT OF SERVICE CONNECTION TO ITS FINAL DESTINATION. AND ALL COVERS AND PLATES INSTALLED PRIOR TO THE TIME OF FINAL INSPECTION BY NY&CO PROJECT MANAGER.

UPON COMPLETION OF THE WORK, ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE TESTED AND PROVED FREE OF UNWANTED GROUNDS AND OTHER DEFECTS.

ALL OVERLOAD DEVICES, INCLUDING EQUIPMENT FURNISHED UPON OTHER CONTRACTS, SHALL BE SET AND ADJUSTED TO SUIT THE LOAD CONDITIONS.

TEST AND MAKE CONNECTIONS/ ADJUSTMENTS FOR PHASE BALANCING.

THIS CONTRACTOR IS TO BALANCE THE VOLTAGE LEAVING THE STEPDOWN TRANSFORMER TO PROVIDE A SECONDARY VOLTAGE OF 120 MINIMUM TO125 VOLTS MAXIMUM BY ADJUSTING THE TRANSFORMER TAPS ONCE ALL THE FINAL CONNECTIONS HAVE BEEN MADE TO THE LOW VOLTAGE PANELBOARD. INCLUDE FINAL BALANCE REPORT WITH AS-BUILT DRAWINGS.

CLEANING

AT THE END OF THE PROJECT, THIS CONTRACTOR SHALL CLEAN ALL EQUIPMENT, INCLUDING LIGHT FIXTURES, TO THE SATISFACTION OF NY&CO. ALL DUST, DIRT, DEBRIS, AND FOREIGN MATTER SHALL BE REMOVED FROM ALL EQUIPMENT.

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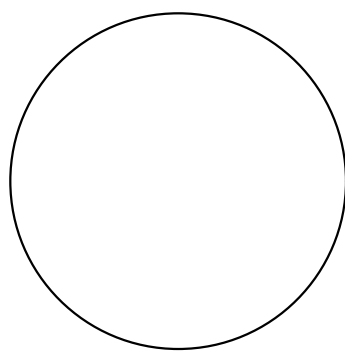
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ELECTRICAL SPECIFICATIONS II



Drawing No.:

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