

 $\underbrace{1}_{1/8" = 1'-0"} FIRST FLOOR HVAC PLAN$



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mail@LSTengineers.com January 2024

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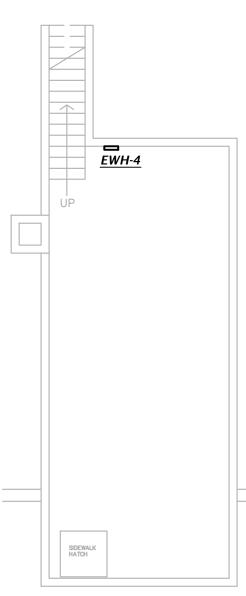
JOB:

MECHANICAL NOTES BY SYMBOL

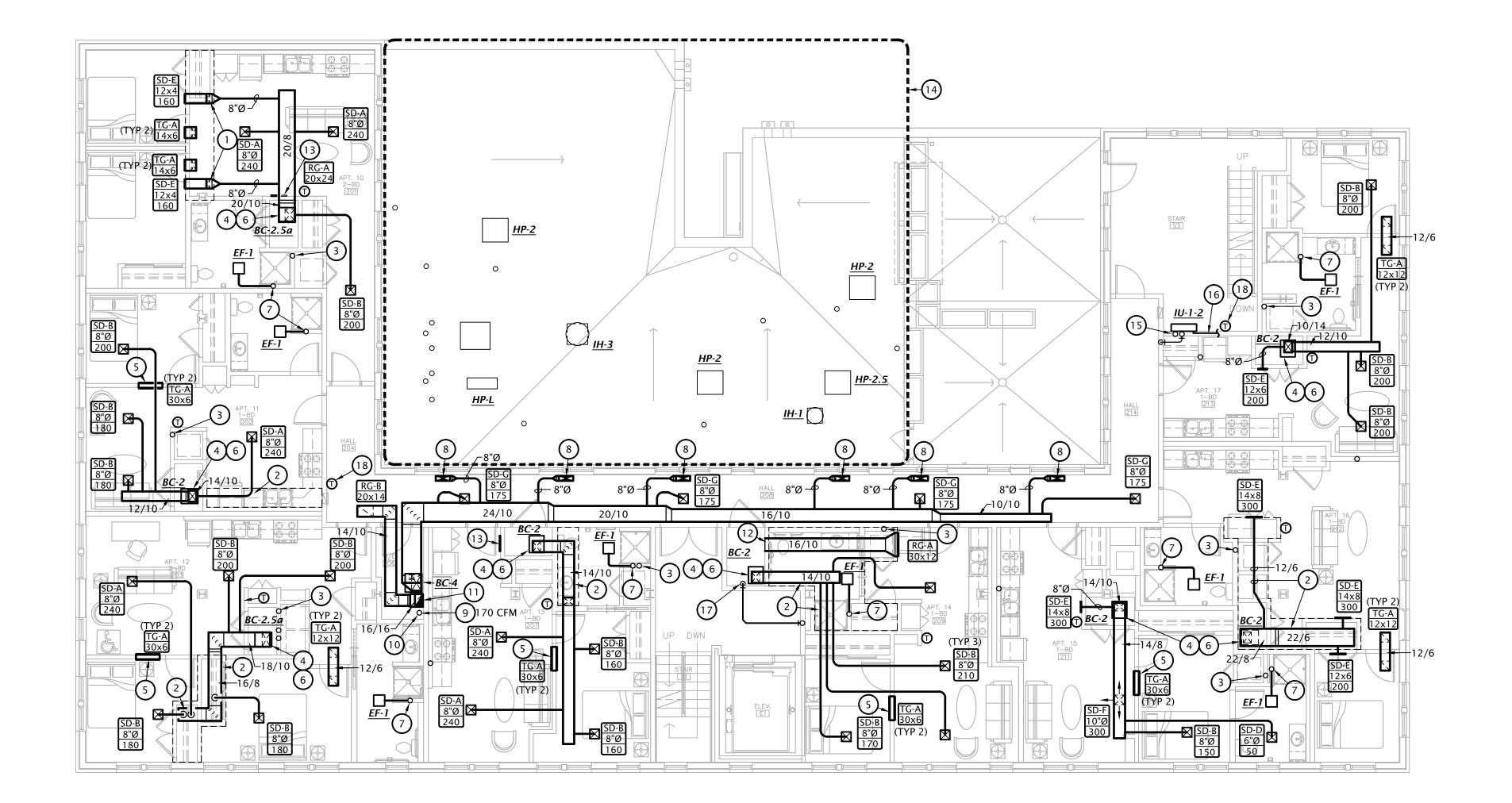
- 1. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASE WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504. NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND
- CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM. 2. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO ROOF JACK WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASE WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504. NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND
- CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM. 3. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO MATCHING HEAT PUMP CONCEALED ABOVE CEILINGS AND IN WALLS . SEE M1.4 FOR HEAT PUMP LOCATIONS.
- 4. MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GRILLE ON
- OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. LINE STUD CAVITY WITH SHEET METAL. 5. PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN. 6. ROUTE 4" EXHAUST UP IN WALL TO ROOF. DUCTS SHALL BE RUN IN WALLS CONTINUOUS FROM
- EXHAUST FAN TO EXTERIOR OF BUILDING WITHOUT BEING COMBINED. COORDINATE EXACT ROUTING AND WALL LOCATIONS WITH G.C. AND EXISTING CONDITIONS. 7. CONNECT OUTDOOR AIR DUCT TO RETURN DUCT AT BLOWER COIL AND BALANCE AS INDICATED
- ON PLANS. 8. OUTDOOR AIR DUCT UP TO INTAKE HOOD ON ROOF, SEE ROOF PLAN ON M1.4 FOR MORE INFORMATION.
- 9. ROUTE 6"Ø OUTDOOR AIR INTAKE TO WALL CAP WITH BIRD SCREEN.
- 10. PROVIDE DRYER WALL CAP EQUAL TO INNOVATE TECHNOLOGIES 'DRYER WALL VENT' IN COLOR AS SELECTED BY ARCHITECT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
- 11. MOUNT DRYER MAKE-UP AIR GRILLE LOW IN WALL BEHIND DRYER.
- 12. ROUTE UP THROUGH ROOF AND TRANSITION TO CONNECTION AT INTAKE HOOD.
- 13. ROUTE CONDENSATE FROM INDOOR UNIT TO INDIRECT CONNECTION AT DRAIN BOX IN LAUNDRY CLOSET. COORDINATE WITH PLUMBING CONTRACTOR. 14. ROUTE REFRIGERANT PIPING CONCEALED IN WALLS AND ABOVE CEILING FROM INDOOR UNIT TO
- MATCHING HEAT PUMP UNIT ON ROOF. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- 15. ROUTE CONDENSATE FROM INDOOR UNIT TO INDIRECT CONNECTION AT DRAIN BOX IN LAUNDRY CLOSET. COORDINATE WITH PLUMBING CONTRACTOR.
- 16. THERMOSTAT SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F BETWEEN CHANGEOVER FROM HEATING TO COOLING MODES.

NOTES: ALL DUCTWORK SHALL BE SEALED PER 2021 IECC

- REQUIREMENTS. COORDINATE REQUIREMENTS WITH G.C.
- DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC TAPE.







SECOND FLOOR HVAC PLAN 1/8" = 1'-0"

NOTE: ALL EXHAUST FANS AND AIR DEVICES THAT PENETRATE A CEILING ASSEMBLY SHALL BE PROVIDED WITH A U.L. LISTED RADIATION DAMPER, GREENHECK CRD OR EQUIVALENT.



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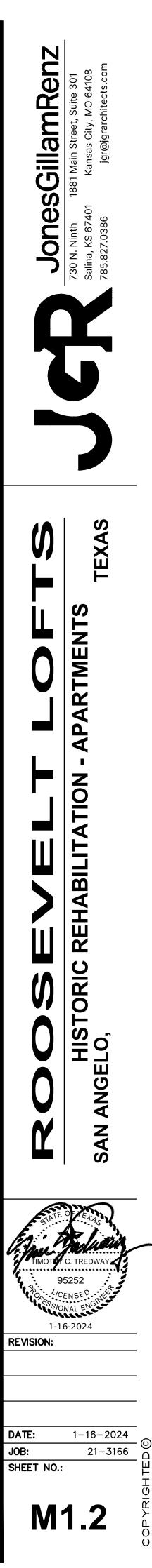
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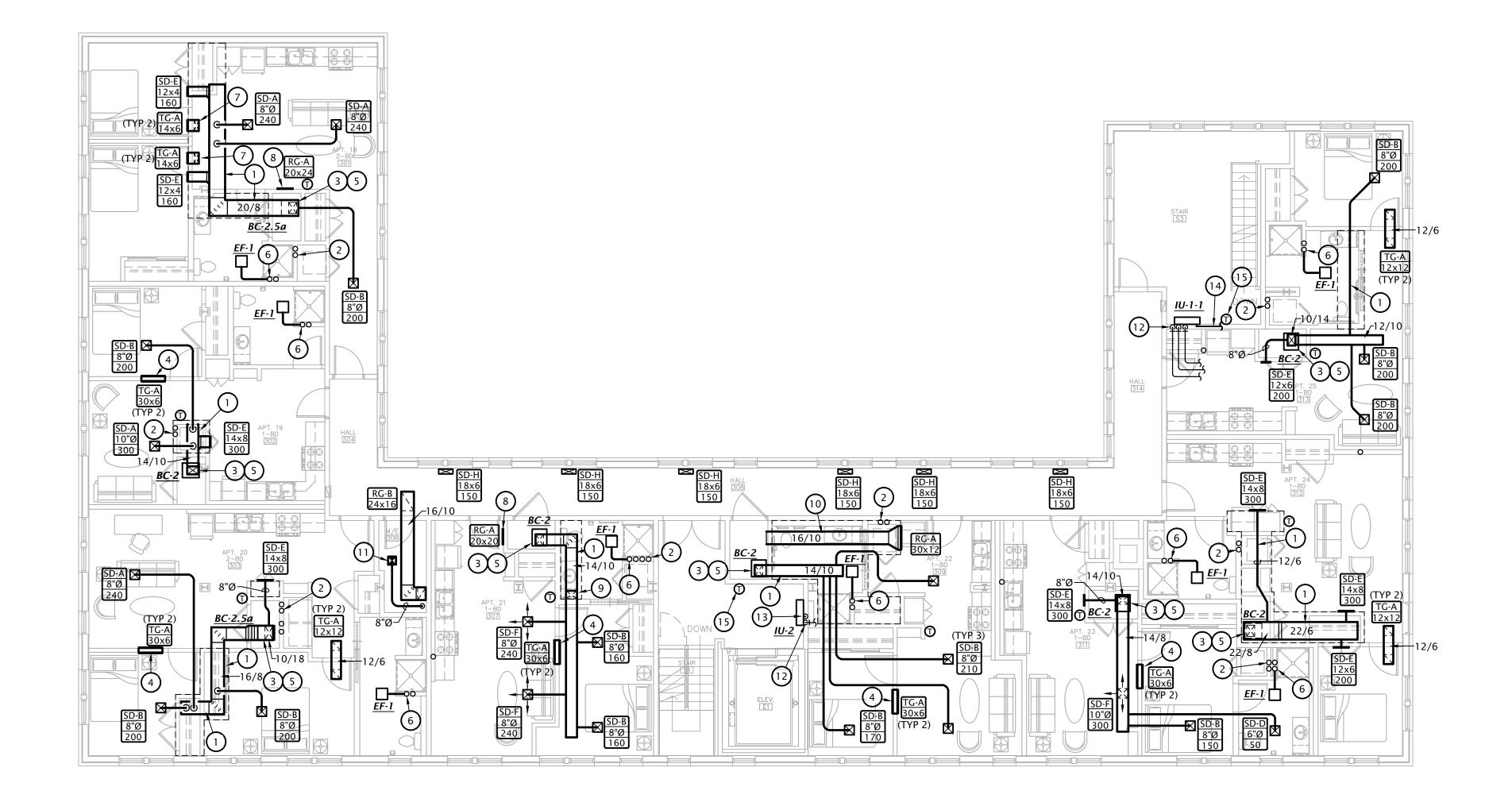
MECHANICAL NOTES BY SYMBOL

- 1. TRANSITION FROM 8"Ø TO 12/4 DUCT AND ROUTE BELOW BEAM IN SOFFIT. INSTALL DUCT AS HIGH AS POSSIBLE TO BEAM. COORDINATE EXACT ROUTING AND SOFFIT LOCATION WITH G.C. AND ARCHITECT.
- 2. DUCT TO BE ROUTED IN SOFFIT, INSTALL AS HIGH AS POSSIBLE TO STRUCTURE. COORDINATE EXACT ROUTING AND SOFFIT LOCATION WITH G.C. AND ARCHITECT.
- 3. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO ROOF JACK WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504. NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- 4. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO MATCHING HEAT PUMP CONCEALED ABOVE CEILINGS AND IN WALLS . SEE M1.4 FOR HEAT PUMP LOCATIONS.
- 5. MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GRILLE ON OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. LINE STUD CAVITY WITH SHEET METAL.
- 6. PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN. 7. ROUTE 4" EXHAUST UP IN WALL TO ROOF. DUCTS SHALL BE RUN IN WALLS CONTINUOUS FROM EXHAUST FAN TO EXTERIOR OF BUILDING WITHOUT BEING COMBINED. COORDINATE EXACT ROUTING AND WALL LOCATIONS WITH G.C. AND EXISTING CONDITIONS.
- 8. ROUTE DUCTWORK UP TO SUPPLY GRILLE AT FLOOR ABOVE.
- 9. CONNECT OUTDOOR AIR DUCT TO RETURN DUCT AT BLOWER COIL AND BALANCE AS INDICATED ON PLANS.
- 10. 8"Ø OUTDOOR AIR DUCT FROM FLOOR ABOVE, SEE M1.3 FOR CONTINUATION.
- 11. TRANSITION TO 16/10 RETURN DUCT AND ROUTE UP TO 3RD FLOOR, SEE M1.3 FOR CONTINUATION.
- 12. ROUTE OPEN ENDED TRANSFER DUCT FROM MECHANICAL CLOSET THROUGH LOWERED CEILING, TRANSITION TO WALL MOUNTED RETURN GRILLE IN APARTMENT.
- 13. MOUNT RETURN GRILLE LOW IN WALL.
- 14. SEE ROOF PLAN ON M1.4 FOR MORE INFORMATION.
- 15. ROUTE REFRIGERANT PIPING CONCEALED IN WALLS AND ABOVE CEILING FROM INDOOR UNIT TO MATCHING HEAT PUMP UNIT ON ROOF. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- 16. ROUTE CONDENSATE PIPING FROM INDOOR UNIT CONCEALED IN WALL TO FLOOR DRAIN IN MECHANICAL CLOSET. FIELD COORDINATE ROUTING WITH OTHER TRADES.
- 17. ROUTE CONDENSATE PIPING FORM INDOOR UNIT ABOVE CONCEALED ABOVE CEILING TO FLOOR DRAIN IN MECHANICAL CLOSET. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- 18. THERMOSTAT SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F BETWEEN CHANGEOVER FROM HEATING TO COOLING MODES.

NOTES:

- ALL DUCTWORK SHALL BE SEALED PER 2021 IECC REQUIREMENTS. COORDINATE REQUIREMENTS WITH G.C.
- DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC TAPE.





 THIRD FLOOR HVAC PLAN

 1/8" = 1'-0"

<u>NOTE:</u> ALL EXHAUST FANS AND AIR DEVICES THAT PENETRATE A CEILING ASSEMBLY SHALL BE PROVIDED WITH A U.L. LISTED RADIATION DAMPER, GREENHECK CRD OR EQUIIVALENT.



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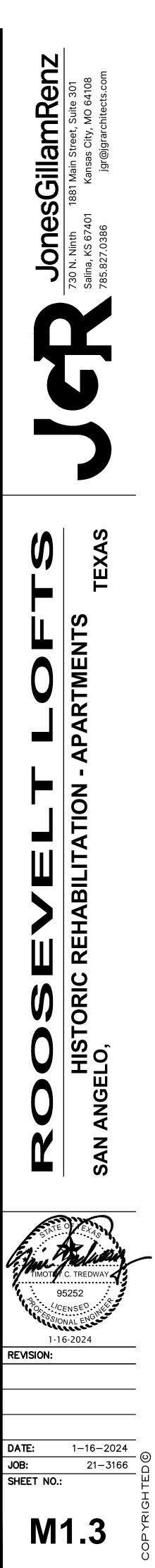
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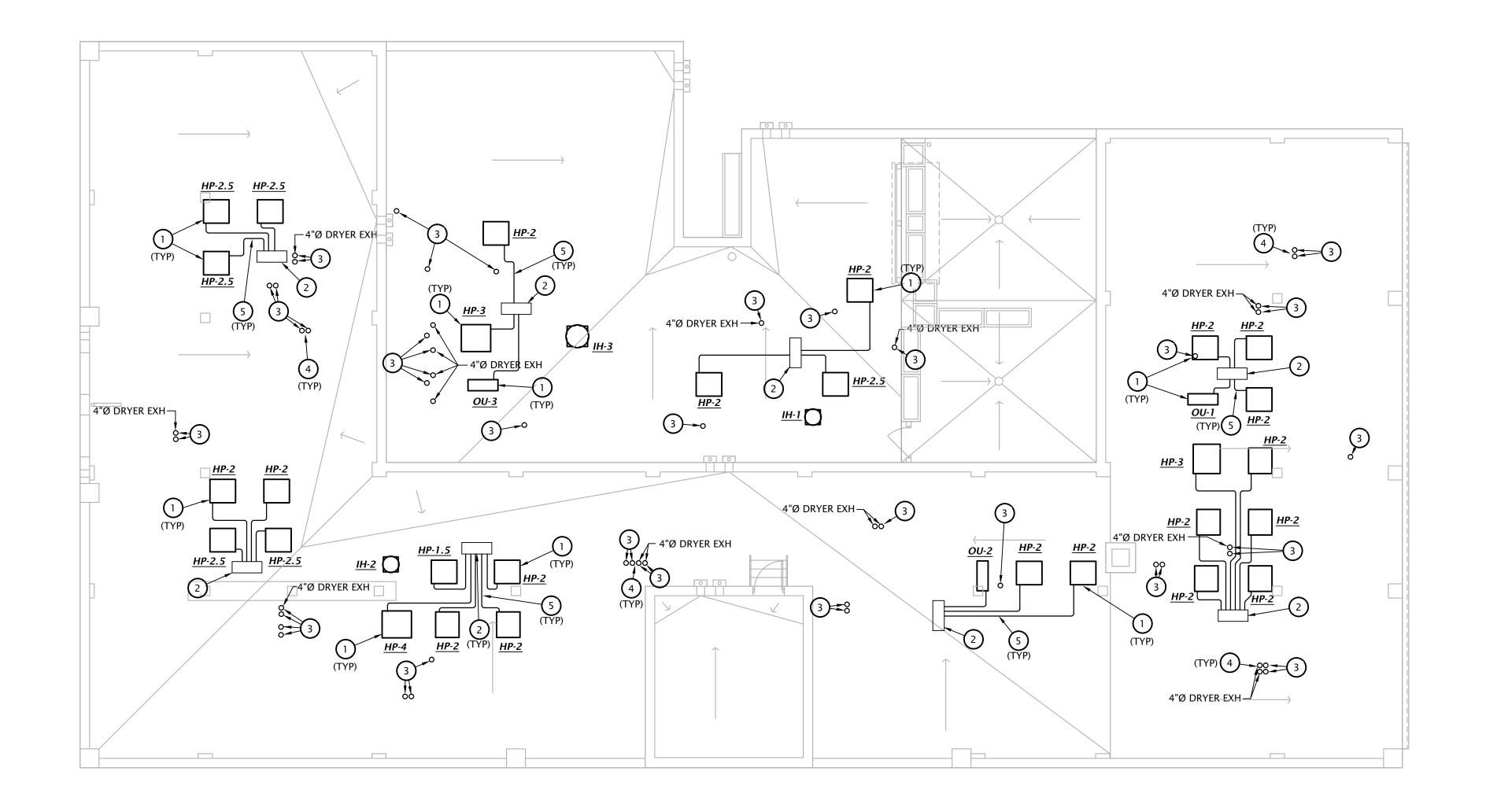
MECHANICAL NOTES BY SYMBOL

- 1. DUCT TO BE ROUTED IN LOWERED CEILING/ SOFFIT, INSTALL AS HIGH AS POSSIBLE TO STRUCTURE. COORDINATE EXACT ROUTING AND SOFFIT LOCATION WITH G.C. AND ARCHITECT.
- 2. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO ROOF JACK WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504. <u>NOTE:</u> ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO MATCHING HEAT PUMP CONCEALED ABOVE CEILINGS AND IN WALLS . SEE M1.4 FOR HEAT PUMP LOCATIONS.
- 4. MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GRILLE ON
- OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. LINE STUD CAVITY WITH SHEET METAL.
 5. PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN.
 6. ROUTE 4" EXHAUST UP IN WALL TO ROOF. DUCTS SHALL BE RUN IN WALLS CONTINUOUS FROM EXHAUST FAN TO EXTERIOR OF BUILDING WITHOUT BEING COMBINED. COORDINATE EXACT
- ROUTING AND WALL LOCATIONS WITH G.C. AND EXISTING CONDITIONS.7. MOUNT TRANSFER GRILLE IN BEDROOM WALL AND DUCT TO GRILLE IN SOFFIT.
- MOUNT TRANSFER GRILLE IN BEDROOM
 8. MOUNT RETURN GRILLE LOW IN WALL.

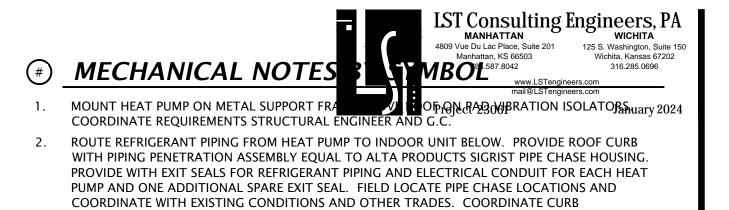
TAPE.

- 9. ROUTE DUCT BELOW BEAM IN SOFFIT, TRANSITION UP TO ABOVE BEDROOM CEILING.
- 10. ROUTE OPEN ENDED TRANSFER DUCT FROM MECHANICAL CLOSET THROUGH LOWERED CEILING, TRANSITION TO WALL MOUNTED RETURN GRILLE IN APARTMENT.
- OUTDOOR AIR DUCT UP TO INTAKE HOOD ON ROOF, SEE ROOF PLAN ON M1.4 FOR MORE INFORMATION.
 ROUTE REFRICERANT RIPING. CONCEALED IN WALLS AND ABOVE CELLING FROM INDOOR UNIT
- 12. ROUTE REFRIGERANT PIPING CONCEALED IN WALLS AND ABOVE CEILING FROM INDOOR UNIT TO MATCHING HEAT PUMP UNIT ON ROOF. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- ROUTE CONDENSATE PIPING FROM INDOOR UNIT DOWN CONCEALED IN WALL AND ROUTE TO ABOVE FLOOR DRAIN IN MECHANICAL ROOM AT FLOOR BELOW.
 ROUTE CONDENSATE PIPING FROM INDOOR UNIT CONCEALED IN WALL TO FLOOR DRAIN IN
- MECHANICAL CLOSET. FIELD COORDINATE ROUTING WITH OTHER TRADES.
 15. THERMOSTAT SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F BETWEEN CHANGEOVER FROM HEATING TO COOLING MODES.
 - NOTES:
 - ALL DUCTWORK SHALL BE SEALED PER 2021 IECC REQUIREMENTS. COORDINATE REQUIREMENTS WITH G.C.
 - DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC

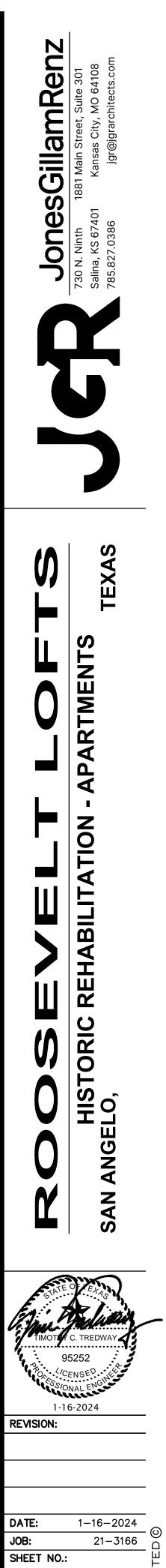




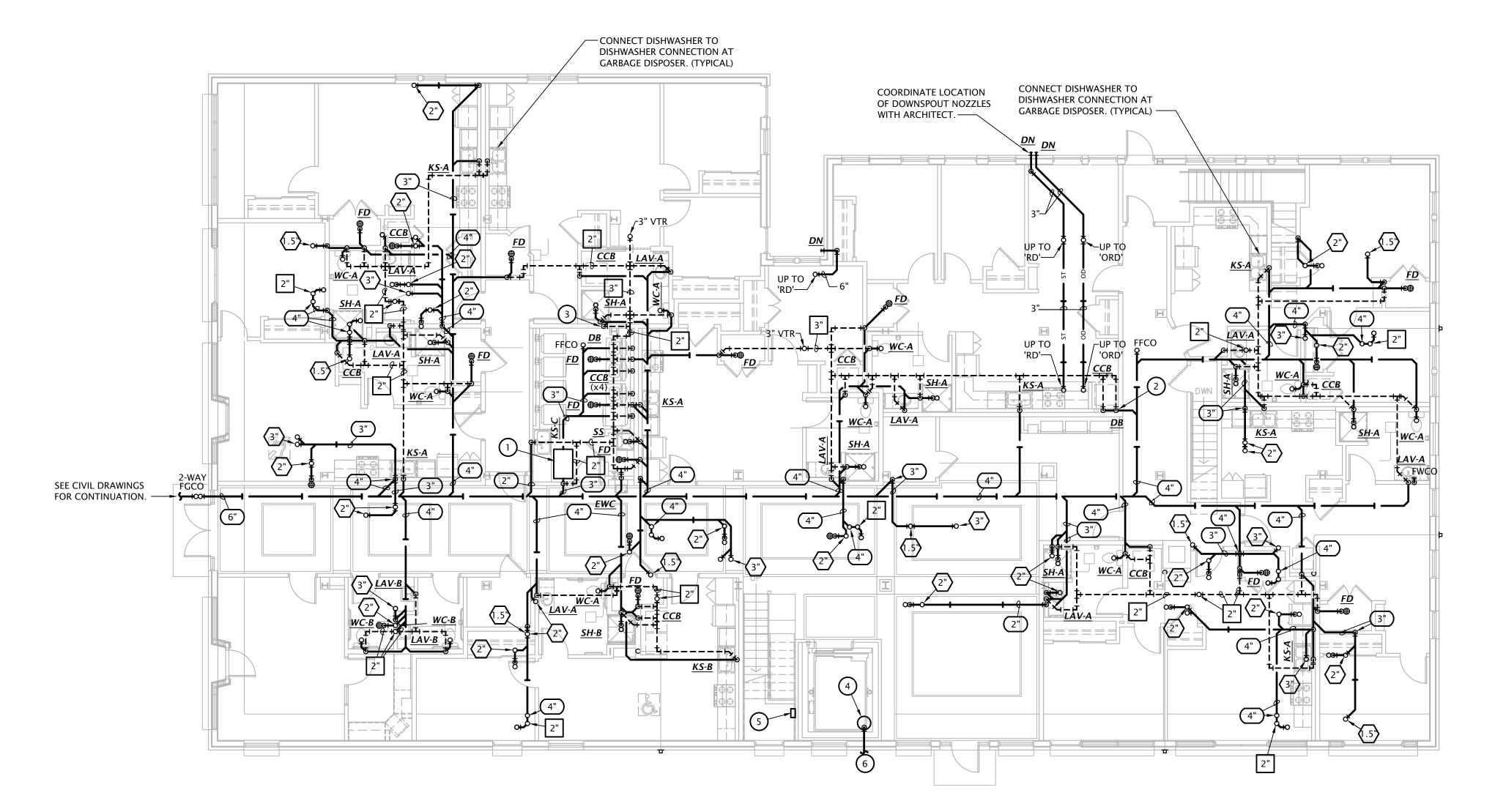
1/8" = 1'-0"



- REQUIREMENTS WITH G.C.
 PROVIDE PIPE CURB EQUAL TO PATE AT DUCT PENETRATIONS OF ROOF. COORDINATE REQUIREMENTS WITH G.C. DO NOT USE PITCH POCKETS. TERMINATE WITH GOOSE NECK, SEE DETAIL 1:M6.3 FOR MORE INFORMATION.
- 4. PROVIDE PIPE CURB FOR MULTIPLE EXHAUST TERMINATIONS ON ROOF WHERE PENETRATIONS ARE GROUPED TOGETHER.
- 5. SEE DETAIL 2:M6.3 FOR REFRIGERANT PIPING ROUTED ALONG ROOF.



M1.4



1 = 1'-0''



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NOTES: • SEE ROUGH-IN REQUIREMENTS IN PLUMBING SCHEDULE ON SHEET M6.1 FOR ADDITIONAL INFORMATION. PIPING SHALL NOT BE ROUTED VERTICALL IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALL AS INDICATED ON PLANS.

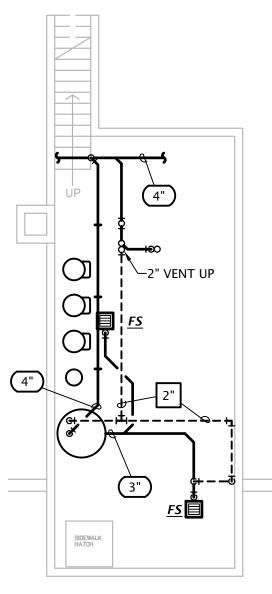
WHERE PIPING PENETRATES FIRE RATED ASSEMBLIES, INSTALL PER ARCH. DETAILS.

PLUMBING SIZING SYMBOLS

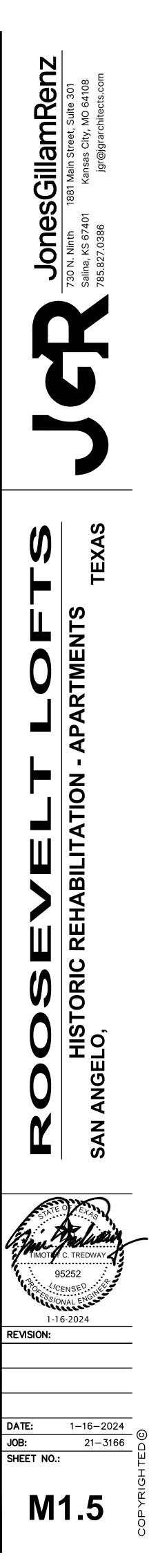
(X")	DRAIN (X = SIZE)
X"	VENT (X = SIZE)
×"	WASTE STACK VENT (X = SIZE)
ALL OFFSET	<u>CK VENT NOTE</u> : S ARE PROHIBITED BETWEEN LOWEST AND HIGHEST AIN CONNECTION TO WASTE STACK VENT (IPC 913.2)

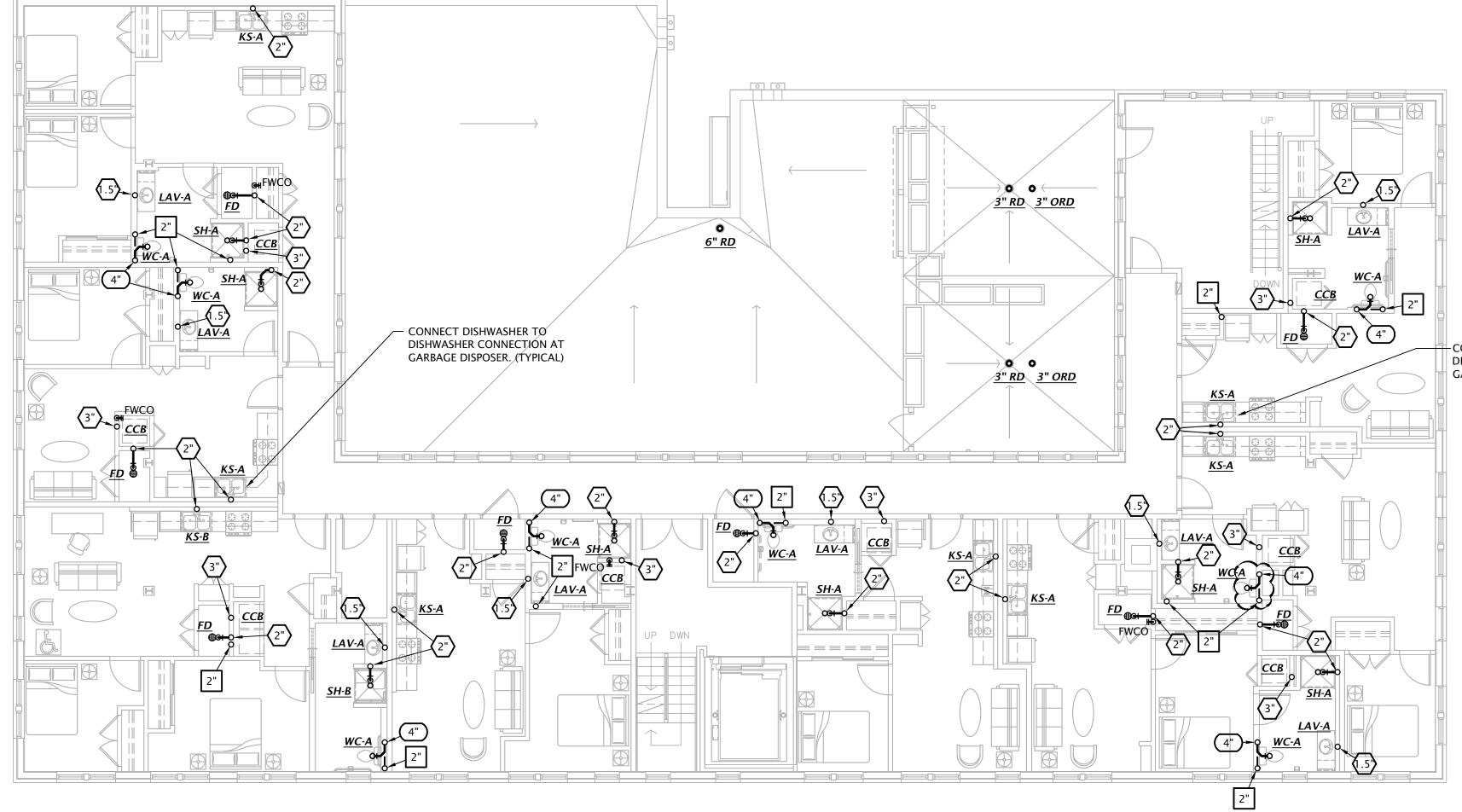
WASTE AND VENT NOTES BY SYMBOL

- 1. PROVIDE LINT INTERCEPTOR EQUAL TO SMITH MFG. CO. 8910-50, RATED FOR 50 GPM FLOW RATE, PRIMARY AND SECONDARY LINT SCREENS, SECURED AND GASKETED STEEL COVER, 3" INLET AND OUTLET. PROVIDE WITH EXTENSIONS AS REQUIRED.
- 2. PROVIDE DRAIN BOX IN LAUNDRY CLOSET FOR INDIRECT CONNECTION OF CONDENSATE DRAIN FROM INDOOR UNIT LOCATED IN HALLWAY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C.
- 3. PROVIDE DRAIN BOX IN WALL OF LAUNDRY ROOM FOR INDIRECT CONNECTION OF CONDENSATE DRAIN FROM INDOOR UNIT LOCATED IN HALLWAY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C.
- 4. ELEVATOR SUMP PUMP. SEE DETAIL 3:M6.3.
- 5. ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE WITH E.C.
- 6. EXTEND ELEVATOR SUMP PUMP DISCHARGE TO DAYLIGHT. COORDINATE WITH CIVIL ENGINEER.









$\underbrace{1}_{1/8' = 1'-0''} SECOND FLOOR WASTE AND VENT PLAN$

CONNECT DISHWASHER TO DISHWASHER CONNECTION AT GARBAGE DISPOSER. (TYPICAL)



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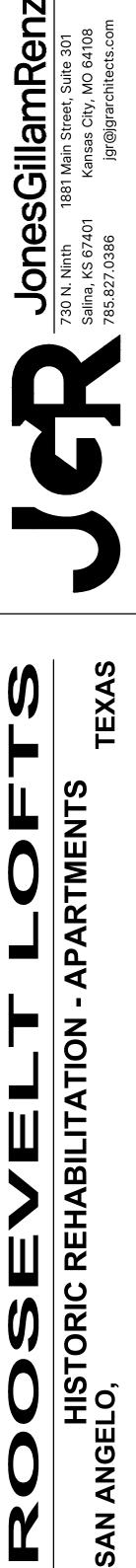
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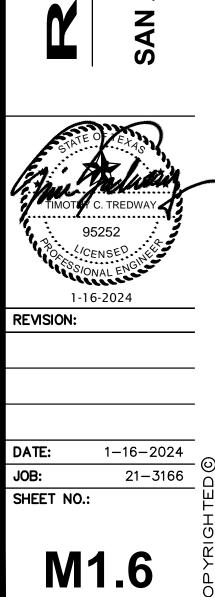
NOTES: • SEE ROUGH-IN REQUIREMENTS IN PLUMBING SCHEDULE ON • SEE ROUGH-IN REQUIREMENTS IN PLUMBING SCHEDULE ON SHEET M6.1 FOR ADDITIONAL INFORMATION. PIPING SHALL NOT BE ROUTED VERTICALL IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALL AS INDICATED ON PLANS.

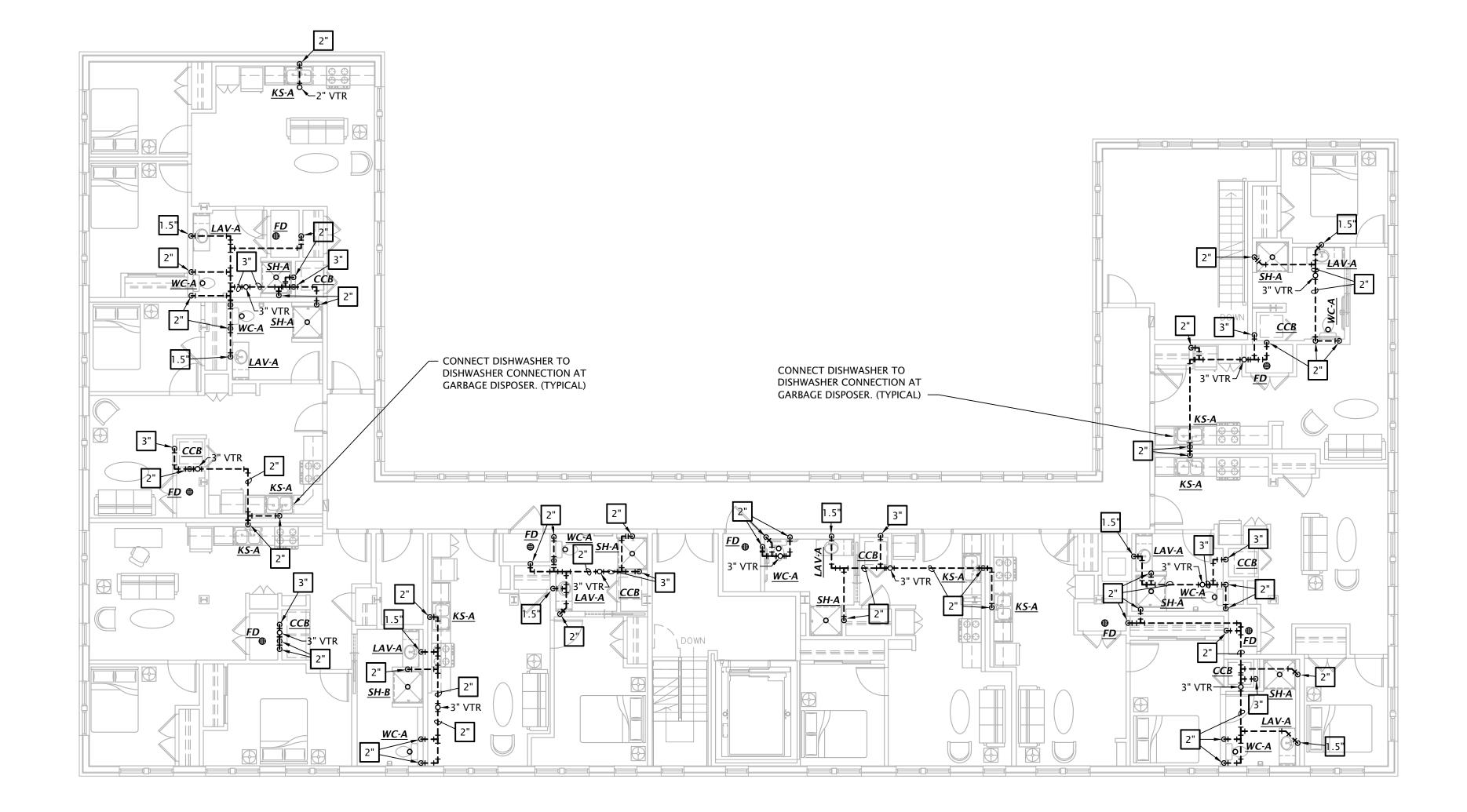
WHERE PIPING PENETRATES FIRE RATED ASSEMBLIES, INSTALL PER ARCH. DETAILS.

PLUMBING SIZING SYMBOLS

(X"	DRAIN (X = SIZE)						
Χ"	VENT (X = SIZE)						
X" WASTE STACK VENT (X = SIZE)							
WASTE STACK VENT NOTE: ALL OFFSETS ARE PROHIBITED BETWEEN LOWEST AND HIGHEST FIXTURE DRAIN CONNECTION TO WASTE STACK VENT (IPC 913							







1 + 1/8' = 1'-0''



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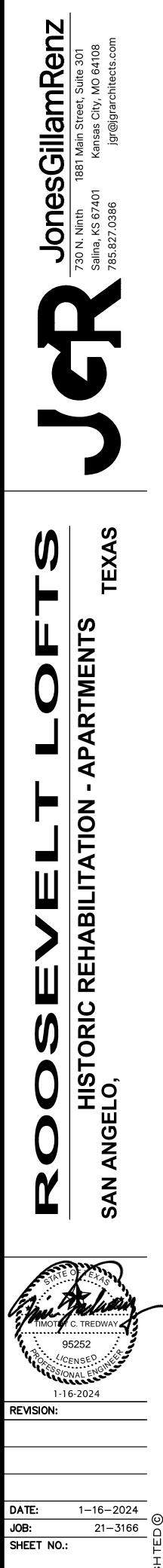
- NOTES: SEE ROUGH-IN REQUIREMENTS IN PLUMBING SCHEDULE ON SHEET M6.1 FOR ADDITIONAL INFORMATION.
- PIPING SHALL NOT BE ROUTED VERTICALL IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALL AS INDICATED ON PLANS. WHERE PIPING PENETRATES FIRE RATED ASSEMBLIES, INSTALL

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PER ARCH. DETAILS.

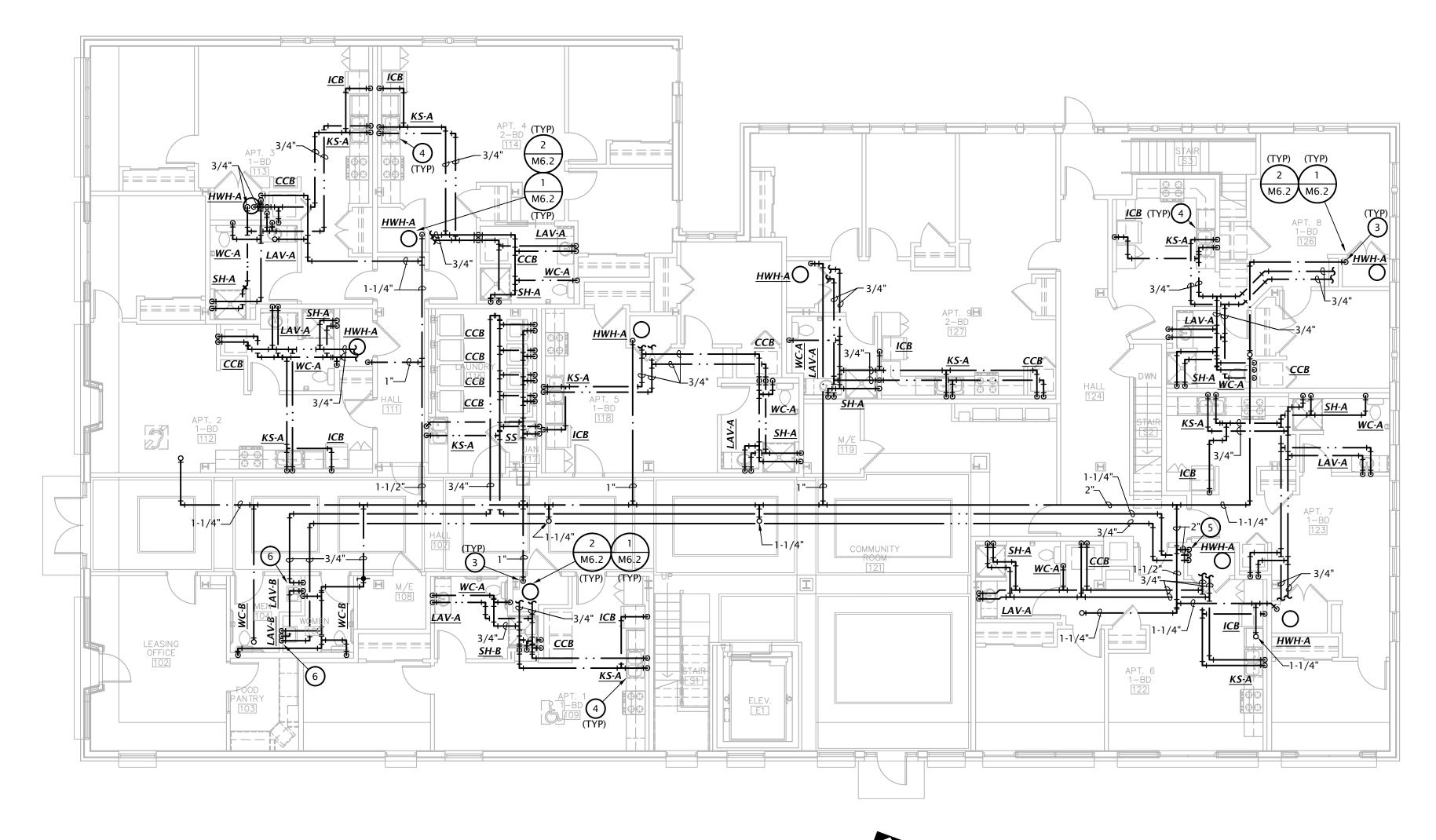
PLUMBING SIZING SYMBOLS

(X")	DRAIN (X = SIZE)
X"	VENT (X = SIZE)
×">	WASTE STACK VENT (X = SIZE)
ALL OFFSET	<u>CK VENT NOTE:</u> S ARE PROHIBITED BETWEEN LOWEST AND HIGHEST AIN CONNECTION TO WASTE STACK VENT (IPC 913.2)



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M1.7



 $\underbrace{1}_{1/8'=1'-0''} FIRST FLOOR DOMESTIC WATER PLAN \quad \overleftarrow{\bullet}$



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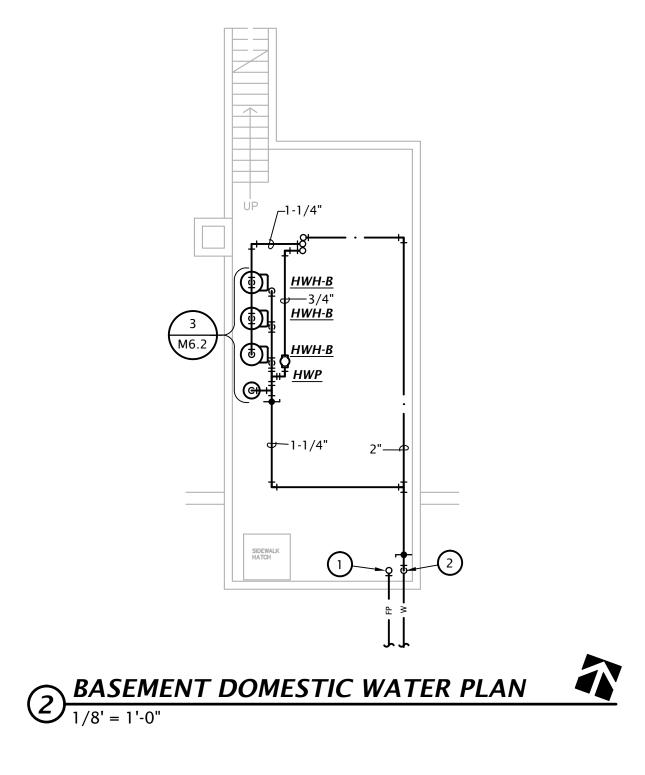
			RNATE IAL/SIZE
		Cross-linked polyethylene (PEX)	Polypropylene (PP)
Ш	1/2"	3/4"	1/2"
	3/4"	1"	1"
PPER PIPE S INDICATED	1"		1-1/4"
PIP AT	1-1/4"		1-1/2"
NC NC	1-1/2"		2"
DN I	2"		2-1/2"
COPPER PIPE SIZE INDICATED	2-1/2"		3"
S	3"		3-1/2"

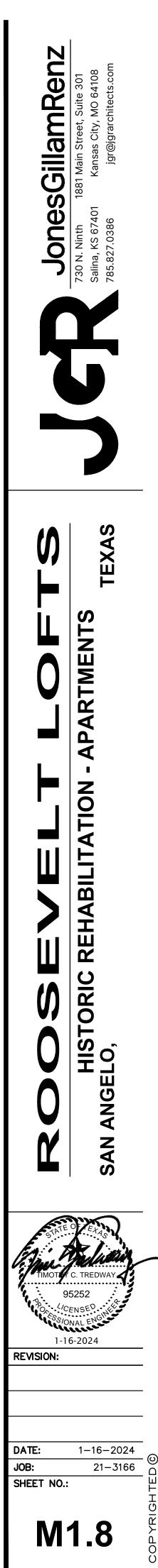
Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

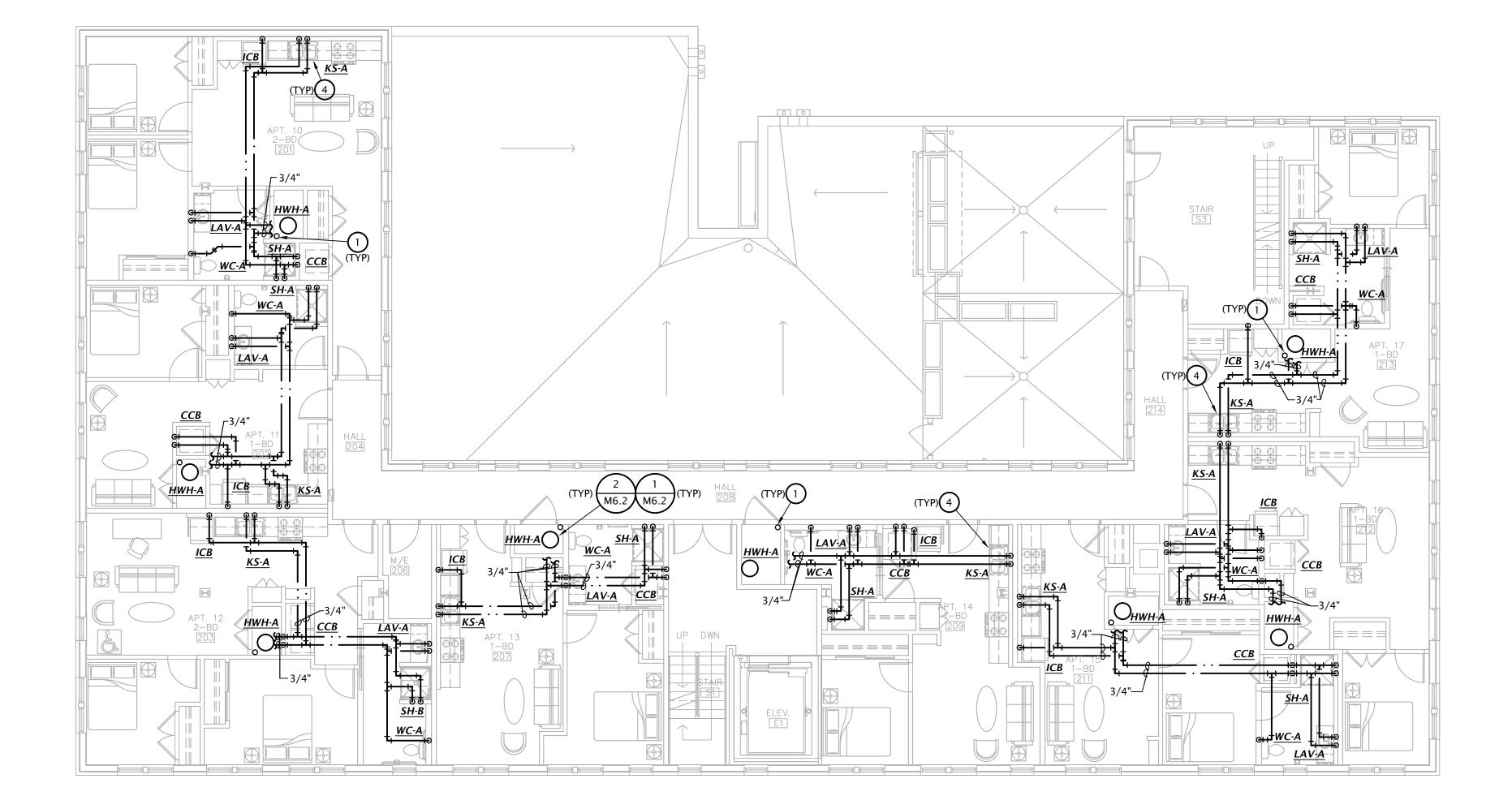
- NOTES: • PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS.
- COORDINATE INSTALLATION OF PIPING IN MECHANICAL CLOSET W/ M.C. & E.C. • SEE PLUMBING FIXTURE SCHEDULE ON SHEET P6.1 FOR FIXTURE ROUGH-IN
- INFORMATION. INSULATE ALL HW PIPING PER SPECIFICATIONS.

DOMESTIC WATER PLAN NOTES BY SYMBOL

- 1. FIRE PROTECTION SERVICE ENTRANCE. INSTALL IN ACCORDANCE WITH NFPA 13. COORDINATE LOCATION OF ALL VALVES AND APPURTENANCES WITH AHJ.
- 2. PROVIDE SHUT-OFF VALVE AT WATER SERVICE ENTRANCE WITH PRESSURE REDUCING VALVE SET TO 80 PSI IF REQUIRED. COORDINATE REQUIREMENTS WITH CITY OF SAN ANGELO.
- 3. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE TYPICAL APARTMENT RISER DIAGRAM ON SHEET M6.2 FOR ADDITIONAL INFO.
- 4. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.
- 5. ROUTE 2" CW, 1-1/4" HW, AND 3/4" HW RECIRC. DOWN TO BASEMENT. 6. HOT WATER RECIRC LOOP SHALL DROP IN WALL TO LIMIT HOT WATER BRANCH TO PUBLIC LAVATORY TO 2 FT MAX.







 $\underbrace{1}_{1/8'=1'-0''} SECOND FLOOR DOMESTIC WATER PLAN$



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			RNATE IAL/SIZE
		Cross-linked polyethylene (PEX)	Polypropylene (PP)
ш	1/2"	3/4"	1/2"
	3/4"	1"	1"
ED	1"		1-1/4"
PIF AT	1-1/4"		1-1/2"
	1-1/2"		2"
PE NI	2"		2-1/2"
COPPER PIPE SIZE INDICATED	2-1/2"		3"
0	3"		3-1/2"

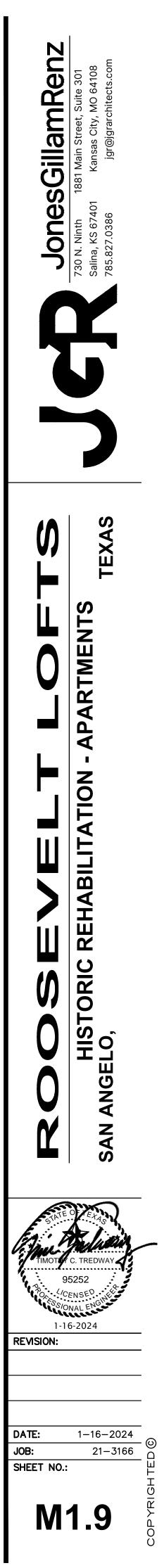
Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

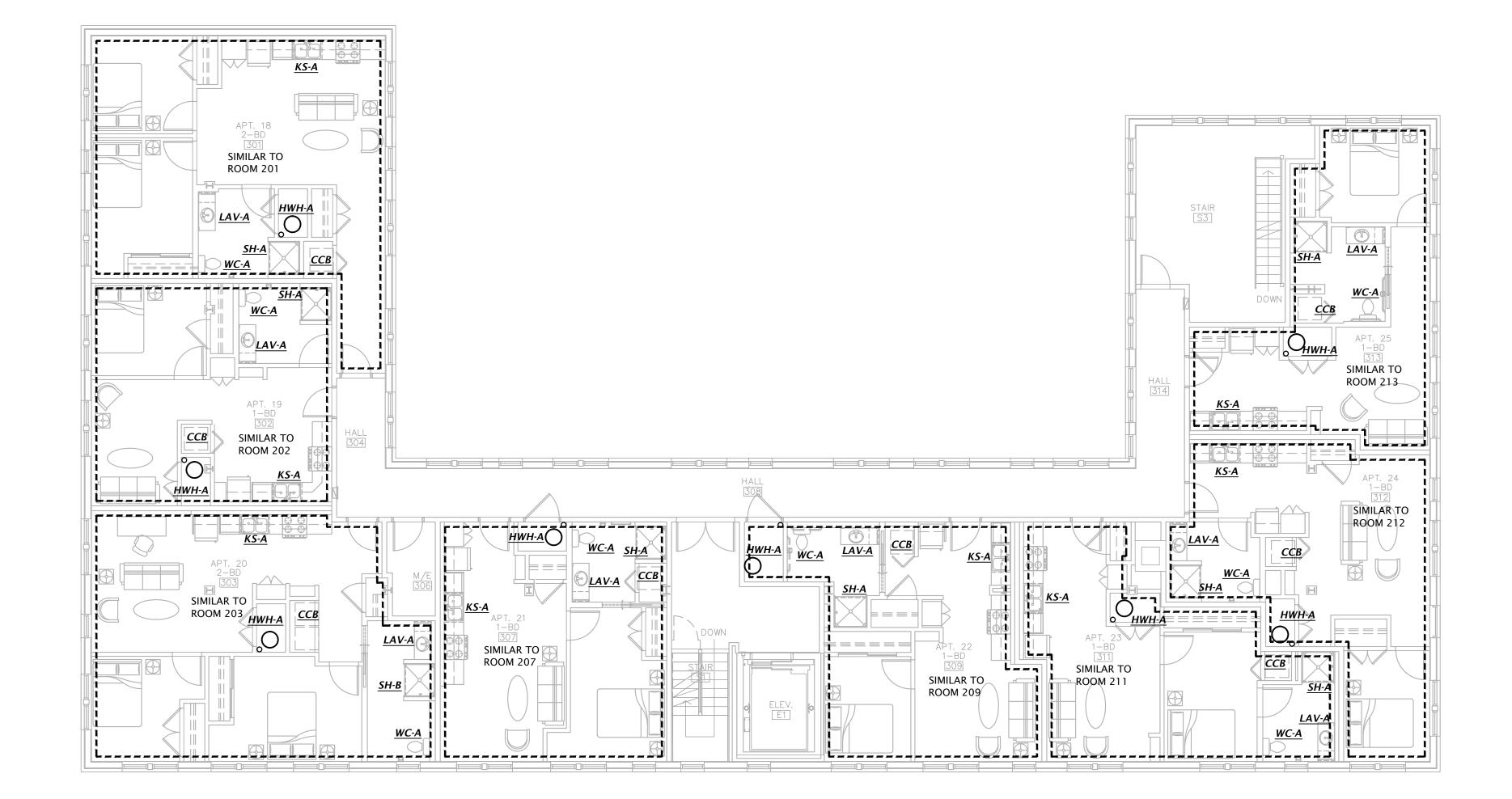
NOTES:

- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS.
- COORDINATE INSTALLATION OF PIPING IN MECHANICAL CLOSET W/ M.C. & E.C.
 SEE PLUMBING FIXTURE SCHEDULE ON SHEET P6.1 FOR FIXTURE ROUGH-IN
- INFORMATION. INSULATE ALL HW PIPING PER SPECIFICATIONS.

DOMESTIC WATER PLAN NOTES BY SYMBOL

- 1. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE TYPICAL APARTMENT DOMESTIC WATER RISER DIAGRAM ON SHEET M6.2 FOR ADDITIONAL INFO.
- 2. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.





THIRD FLOOR DOMESTIC WATER PLAN 1/8' = 1'-0"



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www.LSTengineers.com mail@LSTengineers.com January 2024

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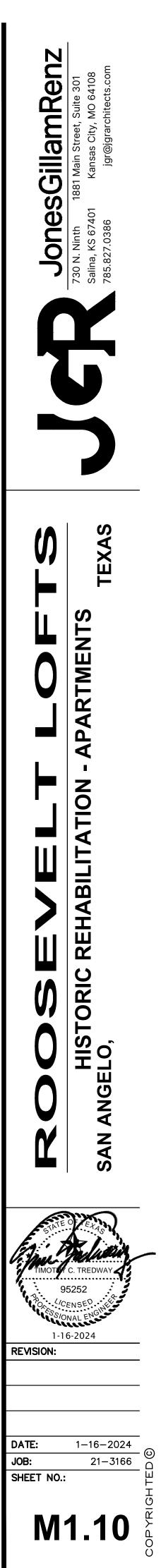
			RNATE IAL/SIZE
		Cross-linked polyethylene (PEX)	Polypropylene (PP)
ш	1/2"	3/4"	1/2"
	3/4"	1"	1"
PER PIPE S NDICATED	1"		1-1/4"
PIP AT	1-1/4"		1-1/2"
	1-1/2"		2"
PE NI	2"		2-1/2"
COPPER PIPE SIZE INDICA TED	2-1/2"		3"
0	3"		3-1/2"

ote: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those 'isted.

- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS.
- COORDINATE INSTALLATION OF PIPING IN MECHANICAL CLOSET W/ M.C. & E.C. • SEE PLUMBING FIXTURE SCHEDULE ON SHEET P6.1 FOR FIXTURE ROUGH-IN
- INFORMATION. INSULATE ALL HW PIPING PER SPECIFICATIONS.

DOMESTIC WATER PLAN NOTES BY SYMBOL

- 1. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE TYPICAL APARTMENT DOMESTIC WATER RISER DIAGRAM ON SHEET M6.2 FOR ADDITIONAL INFO.
- 2. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.



				Nominal	Nominal	Cooling Design	Heating Design		Corrected Capacity	y	Estimated	Estimated		
Room Name	Tag Reference	Model	Туре	Cooling Capacity (BTU/h)	Heating Capacity (BTU/h)	Entering Temp DB/WB (°F) / [Water in temp]	Entering Temp DB/WB (°F) / [Water in temp]	-	Cooling Sensible Capacity (BTU/h)				Voltage / Phase	Electrical MCA/MFS
3rd Floor Stair	IU-1-1	NTXWST09B112AA	Wall -Mounted	8,000	8,300	80.0/67.0	70	7,158.3	7,146.3	7,280.3	61.4	88.6	208/230V/1- phase	Powered by Outdoor
2nd Floor Stair	IU-1-2	NTXWST09B112AA	Wall -Mounted	8,000	8,300	80.0/67.0	70	7,111.8	7,111.8	7,266.9	61.5	88.6	208/230V/1- phase	Powered b Outdoor
1st Floor Hall	IU-1-3	MSZ-EF09NAW-U2	Wall -Mounted	8,000	8,300	80.0/67.0	70	7,041.9	7,041.9	7,246.8	63.0	87.2	208/230V/1- phase	Powered b Outdoor
3rd Elevator Lobby	IU-2	NTXWMT09A112AA	Wall -Mounted	9,000	10,900	80.0/67.0	70	8,130.9	7,071.4	6,931.7	62.3	87.0	208/230V/1- phase	Powered b Outdoor
Laundry	IU-3	NTXWMT12A112AA	Wall -Mounted	12,000	12,200	80.0/67.0	70	10,841.2	8,814.5	8,472.1	57.9	90.8	208/230V/1- phase	Powered b Outdoor

Tag Reference	Model Number	Model Number Nominal Cooling Capacity (BTU/h)		,	Heating COP @ 47°F	@ 47°F Cooling Outdoor		Corrected Cooling Total Capacity		Electrical-Per Module 208/230 or [460V]				
				[SEER]	[HSPF]	Temp DB (°F)	Outdoor Temp WB (°F)	(BTU/h)	(BTU/h)	Voltage / Phase	MCA 208/230	RFS	MOCP	
OU-1	NTXMPH24A132CA	22,000	25,000	11.75 [17.25]	[9.5]	101.0	16.5	21,312.0	21,794.1	208/230V / 1- phase	31.5	40	40	
OU-2	NTXSMT09A112AB	9,000	10,900	12 [18]	3.549564 [10]	101.0	16.5	8,130.9	6,931.7	208/230V / 1- phase	9	15	15	
OU-3	NTXSMT12A112AB	12,000	12,200	9.9 [18]	3.611733 [10]	101.0	16.5	10,841.2	8,472.1	208/230V / 1- phase	9	15	15	

MARK	MANUFACTURER	DESCRIPTION		TRIM		ROUGH-IN	N SIZES		NOTI
	MINING THE FOREK		MANUFACTURER	DESCRIPTION	WASTE	VENT	CW	HW	Nor
WC-A	KOHLER	Model 3999-0 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	#K-4636-0 white, closed front plastic seat with slow closing lid.	4"	2"	1/2"		1
WC-B	KOHLER	Model 3999-0 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	#4650-0 Lustra white, open front, plastic seat with cover	4"	2"	1/2"		1
LAV-A	AMERICAN STANDARD	Model 0610.000 under counter mounted lavatory, white vitreous china, 20-1/4"W x 16"	KOHLER	Model 15182-4RA single handle faucet. Provide pop-up drain.	2"	1-1/2"	1/2"	1/2"	1,2,
LAV-B	KOHLER	Model K-2035-1 wall hung, white vitreous china, 22"W x 18", single hole faucet.	DELTA	Model 597LF-PNMPU single handle faucet, with polished nickel finish. Provide with pop-up drain.	2"	1-1/2"	1/2"	1/2"	1,2,
KS-A	JUST	Model DL-ADA-2233-A-GR two compartment 18 GA stainless steel sink, self rimming, 14"x16"x5"D inside, fully undercoated, faucet	DELTA	Model 400-HDF single handle kitchen sink faucet with hose spray attachment. Chrome finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	1,3,2
		holes as req., and drain holes center rear.	IN-SINK-ERATOR	"Badger 5" garbage disposal, 1/2hp, 120V, cord and plug connected.					
KS-B	BLANCO	Model Liven Silgranit single compartment granite composite sink, 22-1/4"x16-15/16"x12"D inside, faucet holes as req., metallic gray finish. Coordinate mounting type with Arch.	MOEN	Model 87194 single handle high arc kitchen sink faucet with spring pulldown sprayer. Stainless finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	2
SH-A	AQUARIUS	Model 'G-3600-BF-1S' reinforced fiberglass ADA shower, 36"W x36"D x77"H, with integral soap/toiletry shelves, integral seat and grab bars in accordance with ADA requirements. Right or left hand rough-in as required, center drain, white finish.	KOHLER	#K-304 pressure balancing valve with integral temperature limits and stops, #K-TS10584-4 valve trim, #K-355 wall supply elbow, #K-9514 60" hose, #K-10549 hand shower, and #K-8524/K-349 slide bar. Entire assembly shall have rubbed bronze finish.	2"	1-1/2"	1/2"	1/2"	1
SH-B	AQUARIUS	Model 'G-3600-BF-1S' reinforced fiberglass ADA shower, 36"W x36"D x77"H, with integral soap/toiletry shelves, integral seat and grab bars in accordance with ADA requirements. Right or left hand rough-in as required, center drain, white finish.	KOHLER	#K-304 pressure balancing valve with integral temperature limits and stops, #K-TS10584-4 valve trim, #K-355 wall supply elbow, #K-9514 60" hose, #K-10549 hand shower, and #K-8524/K-349 slide bar. Entire assembly shall have rubbed bronze finish.Model 28T9 faucet with hose thread outlet.				1/2"	1
SS	FIAT	Model MSB-2424 one piece molded stone mop basin, 24" square, stainless steel integral drain body with caulk connection, stainless steel wall guards.	DELTA	3"	1-1/2"	3/4"	3/4"	4	
EWC	ELKAY	Model EZS8WSLK ADA compliant , self-contained w bottler filler, lead-free cooling system capable of co			2"	1-1/2"	1/2"		
WH	WOODFORD	Model 25 frost proof wall hydrant with anti-siphon	vacuum breaker, m	etal handle.			3/4"		
RH	WOODFORD	Model RHY2-MS frost proof roof hydrant with ASSE integral vent that allows drainage with 1/8" drain h manufacturers roof mounting system consisting of boot, and shims as required. Coordinate installation	ole drilled and tapp cast iron hydrant s	bed in body of hydrant. Provide with			3/4"		
ССВ	WATER TITE	Model W4700 recessed washing machine box with turn adaptor ball valves, sweat connection.	2"PVC/ABS drain co	oupling and knockout test cap. Two, 1/4	2"	2"	1/2"	1/2"	
ICB	WATER TITE	Model W9700 ice maker connection box with 1/4 t	urn ball valve and 1	/2" sweat copper connection.			1/2"		
DB	SOUIX CHIEF	Model 696-3 drainage box box with 2" drain conne	ection and solid cov	er. Provide with Proset Trapguard trap	2"				
FD	SIOUX CHIEF	Series 833 adjustable floor drain with nickel bronz	e strainer. Provide	Proset Trapguard trap protection device.	2"				
FS	WADE	Model 9140 floor sink with 8" deep body, enamele openings as requried.	d interior, sediment	bucket, nickel bronze trim and grate with	3"	1-1/2"			
RD	WADE	Model 3000 cast iron side outlet body roof drain w	rith flange, flashing	ring with gravel stop, underdeck clamp and o	L cast iron de	L ome strair	ner.	I	
ORD	WADE	Model 3000 cast iron side outlet body overflow roo	of drain with 2" cas	t iron dam/ flashing ring, flange, underdeck (clamp and	cast iron	dome st	rainer.	
DN	WADE	Model 3940 nickel bronze downspout nozzle with	threaded outlet and	I flange to secure nozzle to wall.					
HWH-A	A.O. SMITH	Model ENT-40, 40 gallon electric water heater, (2) rise. Minimum 0.95 Energy Factor. Supplied with te		, , , , ,	nts, 21 GPH	H recovery	<i>ı @</i> 90°F	temp	5
HWH-B	RHEEM	Model ELD52-TB, 50 gallon electric water heater, (2 with temperature & pressure relief valve and brass	2) 4500 watt, 208 v		ery @ 90°F	temp rise	e. Suppl	ied	
HWP	BELL & GOSSETT	Model NBF-33 circulation pump, bronze body, 10 0	GPM @ 10' head, 12	0 VAC. Provide clamp-on aquastat for pump o	control.				
ERAL:	1	1							

1. Fixture and installation to meet accessibility requirements of the Fair Housing Act.

2. Provide Dearborn supplies with stops and escutcheon plate, 1-1/4" cast brass p-trap.

3. Insulate water and waste piping below lavatory. Utilize insulation kit equivalent to LavGuard by Truebro.

4. Trim shall be provided with polished chrome finish.

5. Mount water heater on stand equivalent to Oatey water heater stand.

PLUMBING FIXTURE SCHEDUI F

MARK	MANUF.	MODEL		FAN		HEATING	V/Ph	MOTOR	МСА	МОСР	NOTES
MARK	MANUF.	MODEL	CFM	ESP	SPEED	KW	V/F11	FLA	MCA	MOCF	NOTES
BC-1.5	TRANE	TEM4A0B18	600	0.6	HIGH	5.8	208/1	1.2	36	40	
BC-2	TRANE	TEM4A0B31	800	0.6	HIGH	5.8	208/1	4.1	42	45	
BC-2.5a	TRANE	TEM4A0B36	1000	0.6	HIGH	7.2	208/1	2.0	46	50	
BC-2.5b	TRANE	TEM4A0B36	1000	0.6	HIGH	7.2/3.6	208/1	2.0	46/22	50/25	1
BC-3	TRANE	TEM4A0C42	1200	0.6	MED	7.2	208/1	4.1	48	50	
BC-4	TRANE	TEM4A0C49	1380	0.6	HIGH	7.2/7.2	208/1	6.0	51/43	60/45	1

- Single point connection required, coordinate the exact electrical requirements of equipment provided with E.C., UNO

Notes:

1. Blower coil heat has two circuits, first circuit indicated includes fan motor.

		MODEL			CO	OLING CAPAC	ITY		HEAT	ING CAPAC	ITY	MIN	E	LECTRICA	.L
MARK	MANUF.	MODEL	NOMINAL TONS	OA DB	ENT AIR DB/WB	SENS MBH	тот мвн	MIN SEER2	OA DB	ENT AIR DB	TOT MBH	HSPF2	MCA	МОСР	V/PH
HP-1.5	TRANE	4TWR4018	1.5	105	75/63	10.5	13.1	14.3	47	70	18.9	7.5	12	20	208/1
HP-2	TRANE	4TWR4024	2	105	75/63	16.6	20.7	14.3	47	70	22.5	7.5	13	25	208/1
HP-2.5	TRANE	4TWR4030	2.5	105	75/63	20.0	25.1	14.3	47	70	27.7	7.5	17	25	208/1
HP-3	TRANE	4TWR4036	3	105	75/63	24.5	29.9	14.3	47	70	33.9	7.5	18	30	208/1
HP-4	TRANE	4TWR4048	4	105	75/63	32.1	41.7	14.3	47	70	45.3	7.5	24	40	208/1

required.

2. Note not used

3. Provide 7-day programmable thermostat.

4. Provide with R140a refrigerant.

5. Provide 2 sets of MERV-7 filters.

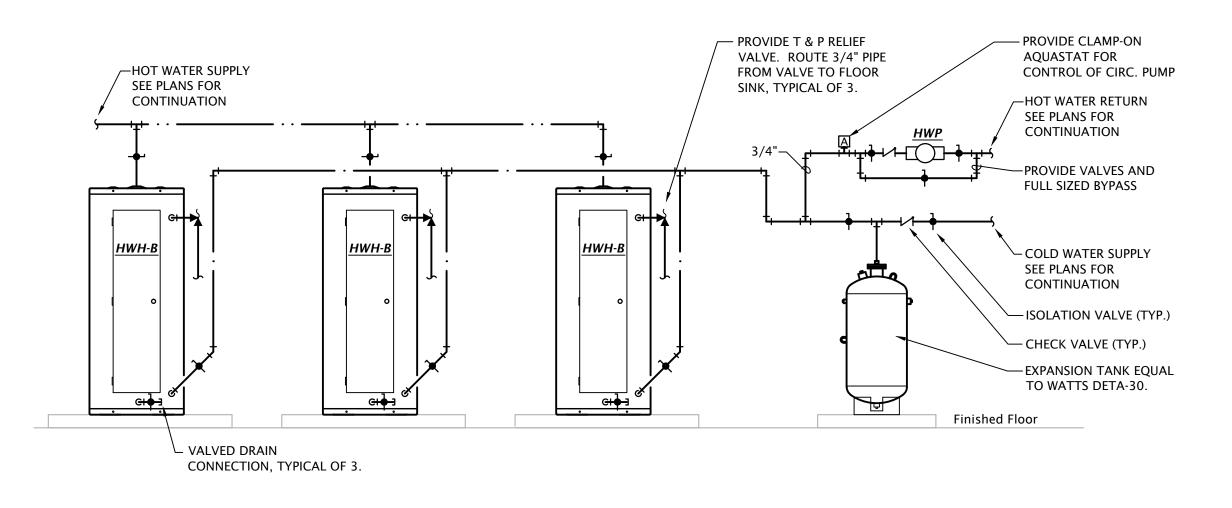
ELECTR	IC HEA	TER S	SCHEDU	ΊLΕ			
MARK	MANUF.	MODEL	MOUNTING	WATTS	VOLTAGE/PHASE	DESCRIPTION	NOTES
EWH-1,2,3	TRANE	UHWA	WALL	1,500	120/1	Architectural fan forced wall heater	1,2,3

NOTES:

1. Provide with high temp. thermal cutout and fan delay.

2. Provide with integral thermostat and unit mounted disconnect switch. 3. Provide with manufacturer's surface mounting adapter sleeve. Coordinate exact mounting requirements and

locations with Arch. and rated construction.





- Electric heater shall not operate simultaneously with heat pump. Electric heater shall be used as back-up heat only.

1. Refrigerant lines shall be field fabricated. Coordinate line sizing requirements with equipment manufacturer for length of run for each apartment. Provide suction accumulators, etc. as



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January 2024

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STICIT LOFIS	HISTORIC REHABILITATION - APARTMENTS SAN ANGELO, TEXAS	
DATE: JOB: SHEET NO.:	C. TREDWAY 5252 NAL ENGINE 6-2024 1-16-2024 21-3166	COPYRIGHTED

AIR DE	EVICE SCH	IEDULE									
			A	PPLI	CATIO	DN					
MARK	MANUFACTURER	MODEL	SUPPLY	RETURN	EXHAUST	TRANSFER	FINISH	MOUNTING	DAMPER	DESCRIPTION	NOTES
SD-A	HART & COOLEY	684	•				WHITE	SURFACE	YES	12"x12" steel 4-way ceiling register with damper	1,2
SD-B	HART & COOLEY	684	•				WHITE	SURFACE	YES	10"x10" steel 4-way ceiling register with damper	1,2
SD-C	HART & COOLEY	684	•				WHITE	SURFACE	YES	8"x8" steel 4-way ceiling register with damper	1,2
SD-D	HART & COOLEY	684	•				WHITE	SURFACE	YES	6"x6" steel 4-way ceiling register with damper	1,2
SD-E	HART & COOLEY	618	•				WHITE	SURFACE	YES	Aluminum, straight blade vertical fin register with opposed blade damper	1
SD-F	HART & COOLEY	683	•				WHITE	SURFACE	YES	12"x12" steel 3-way ceiling register with damper	1,2
SD-G	PRICE	SPD	•				WHITE	SURFACE	YES	12"x12" steel square louvered diffuser, neck size as indicated on drawings	
SD-H	PRICE	LBMH-26C	•				MILL	FLOOR	YES	Heavy duty aluminum bar grille with 3/16" bars spaced at 7/16" with 15° deflection, size as indicated on drawings	1
RG-A	HART & COOLEY	650		•			WHITE	SURFACE	NO	Single deflection, steel, louvered face return grille, size as indicated on drawings	1
RG-B	PRICE	530		•			WHITE	SURFACE	NO	Steel louvered return grille, size as indicated on drawings	1
TG-A	HART & COOLEY	650				•	WHITE	SURFACE	NO	Single deflection, steel, louvered face return grill	1

GENERAL NOTES:

1. Provide mounting frame as required for ceiling type.

2. Maximum NC shall be 25.

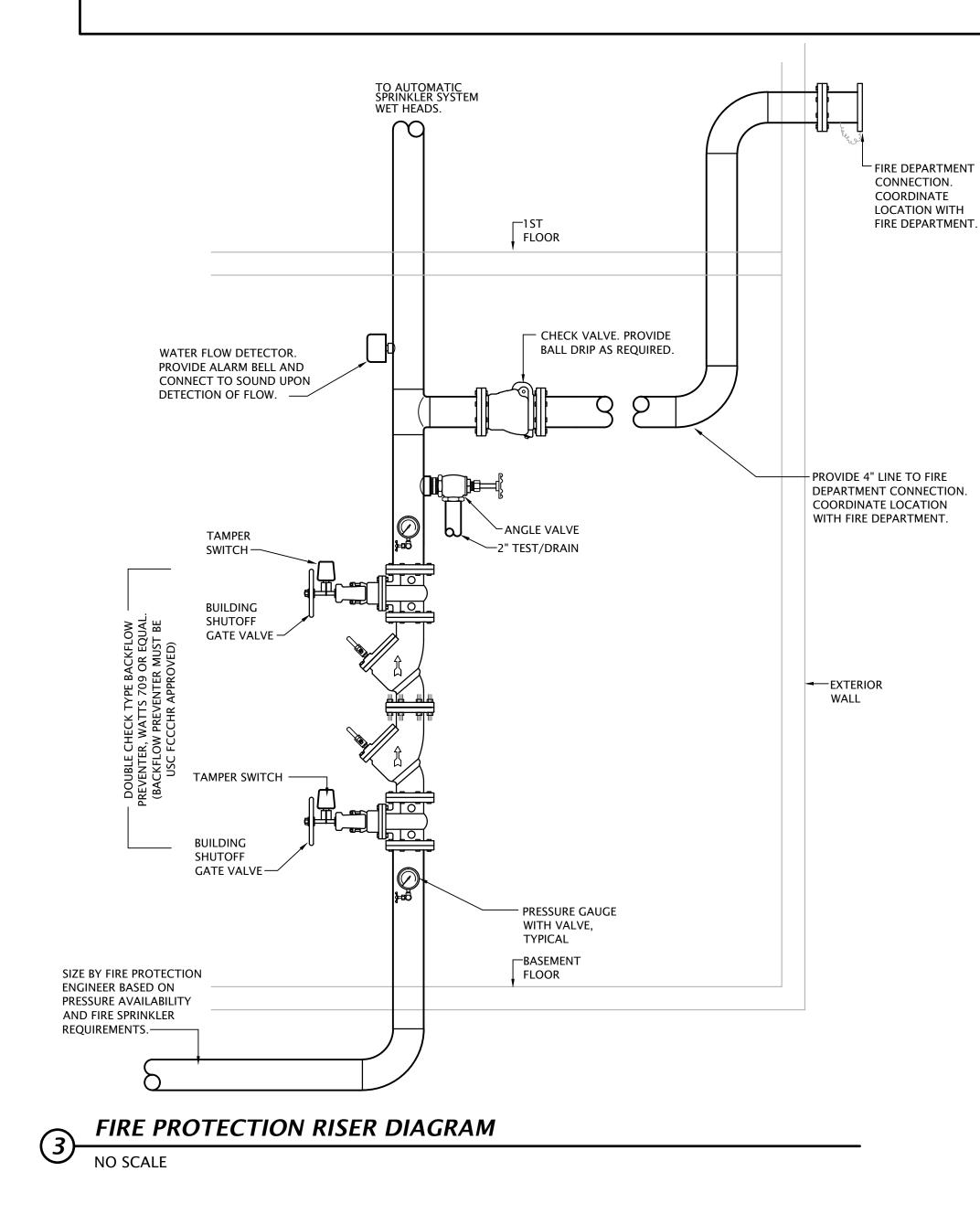
3. Paint objects visible through grilles with flat black paint.

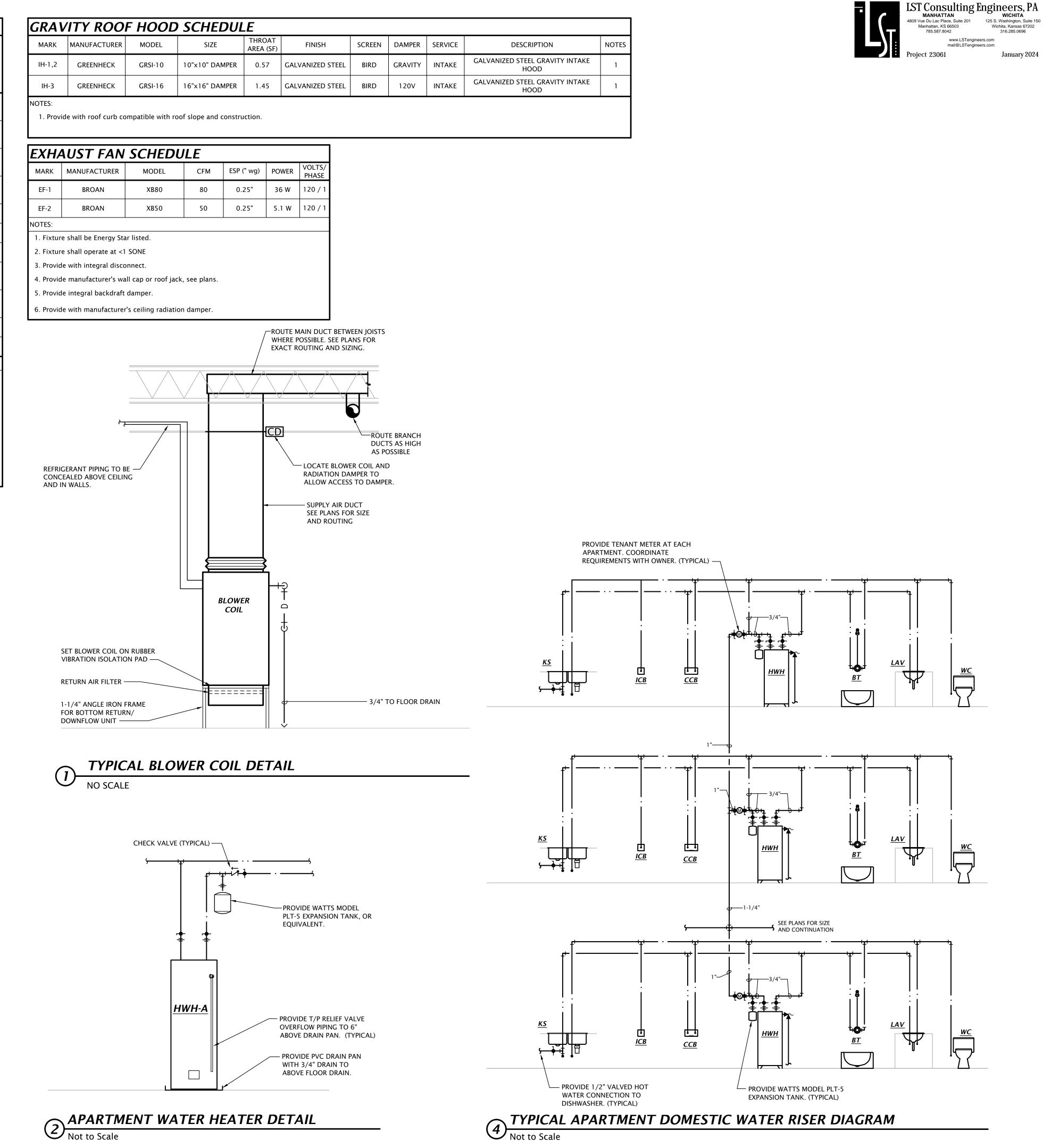
4. Provide ceiling radiation damper for all devices located in a rated ceiling.

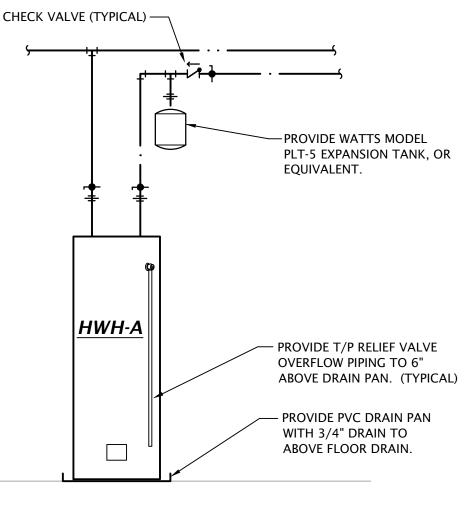
NOTES:

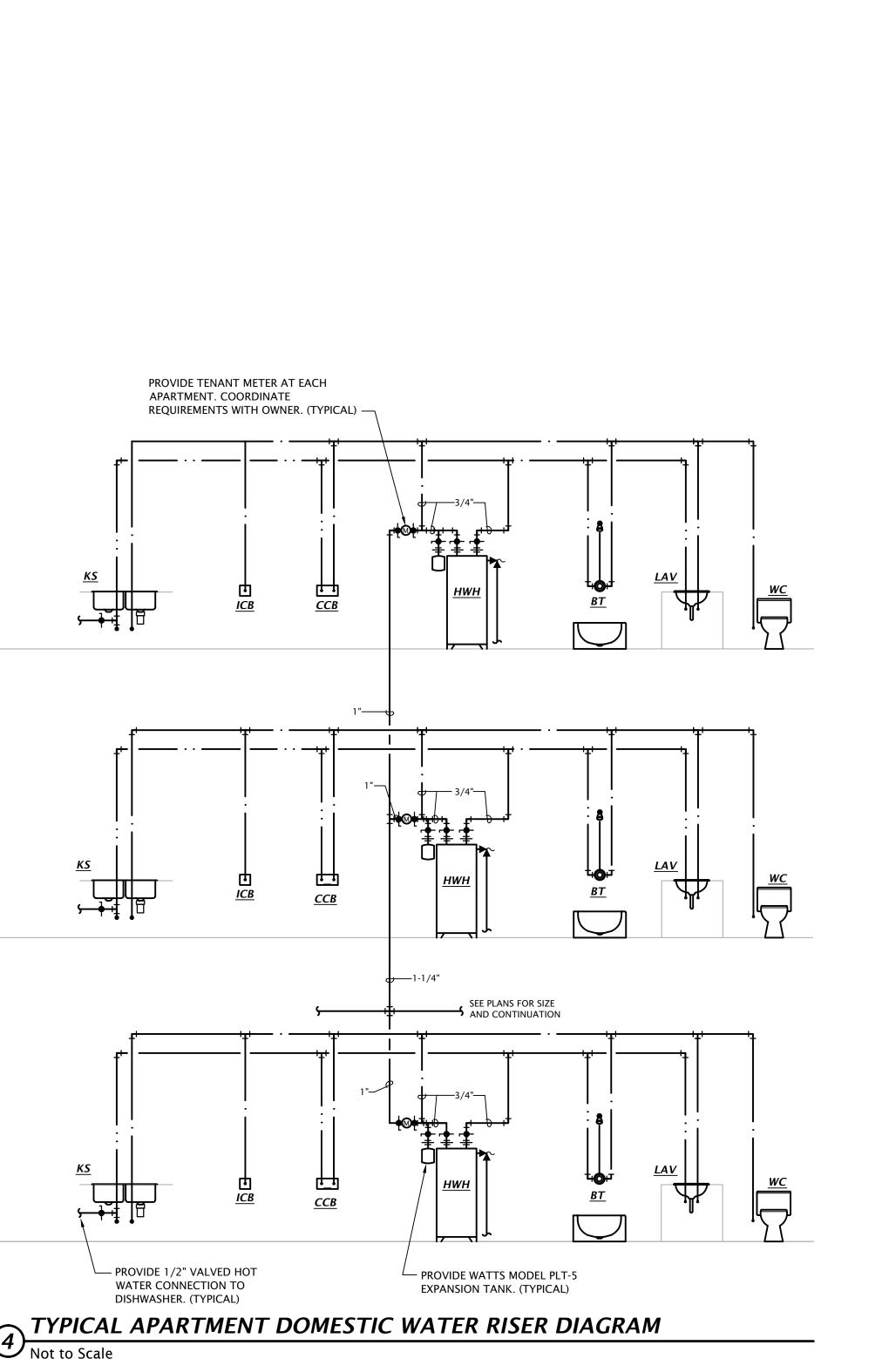
. Neck size shall be same as face.

2. Provide runout as indicated in tag on plans and transition to square neck or provide plenum and tap with runout.









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MECHANICAL SYMBOLS

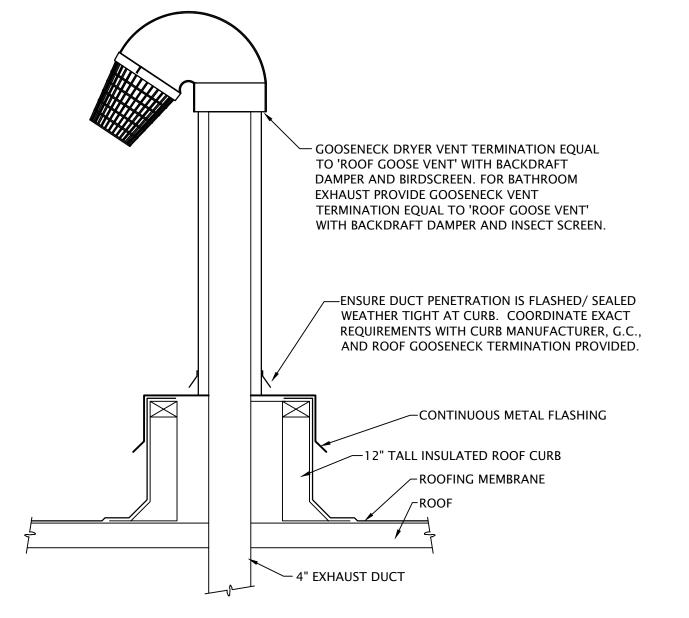
Ī	THERMOSTAT
18	CONTROL CABLE, VERIFY TYPE WITH EQUIPMENT MANUFACTURER
\bowtie	SQUARE SUPPLY DIFFUSER - TYPE AND AIRFLOW INDICATED
	SQUARE RETURN GRILLE - TYPE INDICATED
□→	WALL DIFFUSER
XX X XX	GRILLE/DIFFUSER TAG TOP: DEVICE TAG (SEE SCHEDULE) MIDDLE: NECK SIZE BOTTOM: AIRFLOW
	MANUAL BALANCING DAMPER
	RECTANGULAR RETURN OR RELIEF AIR DUCT UP
	RECTANGULAR RETURN OR RELIEF AIR DUCT UP
	RECTANGULAR SUPPLY AIR DUCT UP
[×]	RECTANGULAR SUPPLY AIR DUCT DOWN
$\overline{\ }$	RECTANGULAR RETURN OR EXHAUST AIR DUCT DOWN
Ø	ROUND DUCT UP
Θ	ROUND DUCT DOWN
\sim	FLEXIBLE DUCTWORK - MAX 5'
	RIGID DUCT RUNOUT
	90° ELBOW WITH TURNING VANES
►	VERTICAL FIRE DAMPER
0 1 —	PIPE TURNING UP
G I -	PIPE TURNING DOWN
f+-	90° ELBOW
×+	45° ELBOW
- '+' -	TEE
-ю-	TEE UP
-181-	TEE DOWN
D	CONDENSATE DRAIN LINE
-	SANITARY DRAIN BELOW GRADE
— F— ST —	STORM DRAIN BELOW GRADE
— — OD—	OVERFLOW DRAIN BELOW GRADE
	SANITARY DRAIN ABOVE GRADE
— † — ST —	STORM DRAIN ABOVE GRADE
OD	OVERFLOW DRAIN ABOVE GRADE
	SANITARY VENT
·	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRC
w	WATER SERVICE PIPING
—— FP ——	FIRE PROTECTION PIPING
ψ 2	UNION
Ì →	BALL VALVE
, Z	CHECK VALVE

SYMBOL MODIFICATION

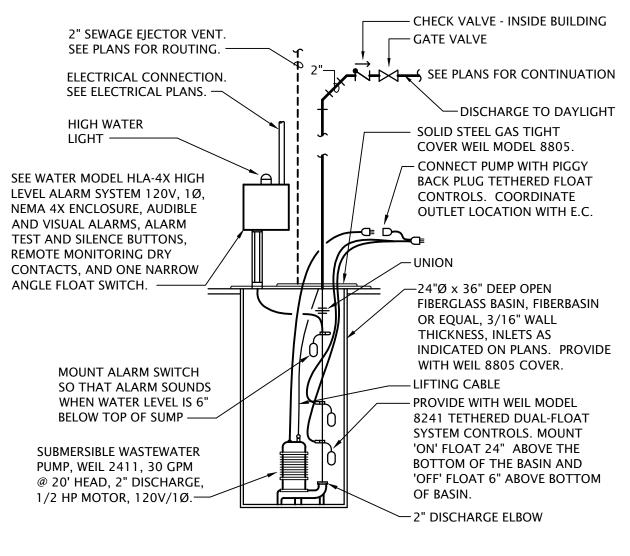
DESIGNATORS/ABBREVIATIONS

- OA OUTDOOR AIR
- RA RETURN AIR
- SA SUPPLY AIR
- MC MECHANICAL CONTRACTOR EC ELECTRICAL CONTRACTOR
- GC GENERAL CONTRACTOR
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BG BELOW GRADE
- FG FINISHED GRADE
- FFCO FINISH FLOOR CLEAN OUT
- FWCO FINISH WALL CLEAN OUT
- FGCO FINISH GRADE CLEAN OUT
- UNO UNLESS NOTED OTHERWISE









SEWAGE EJECTOR DETAIL

AND VISUAL ALARMS, ALARM TEST AND SILENCE BUTTONS, REMOTE MONITORING DRY CONTACTS, AND ONE NARROW ANGLE FLOAT SWITCH. -MOUNT ALARM SWITCH SO THAT ALARM SOUNDS WHEN WATER LEVEL IS 6" BELOW TOP OF SUMP -----SUBMERSIBLE SUMP PUMP, WEIL 1432, 50 GPM @20' HEAD, 2" DISCHARGE, 1/2 HP MOTOR, 120V/1Ø. —

PROVIDE EXTERIOR RATED PVC JACKETING ON EXTERIOR

U NO SCALE

REFRIGERANT PIPING. (SHOWN CUT

AWAY AT COLLAR FOR CLARITY) ----

ELEVATOR SUMP PUMP DETAIL 3 NO SCALE

ELECTRICAL CONNECTION.

SEE ELECTRICAL PLANS. —

HIGH WATER

SEE WATER MODEL HLA-4X HIGH

LEVEL ALARM SYSTEM 120V, 1Ø,

NEMA 4X ENCLOSURE, AUDIBLE

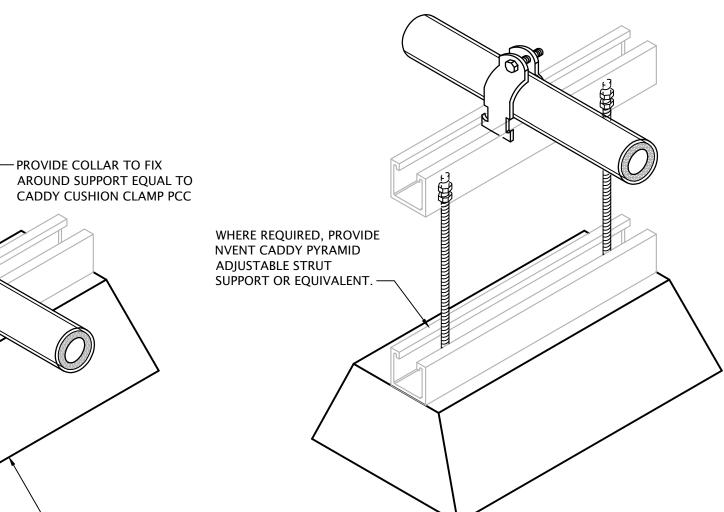
LIGHT —

(4)NO SCALE



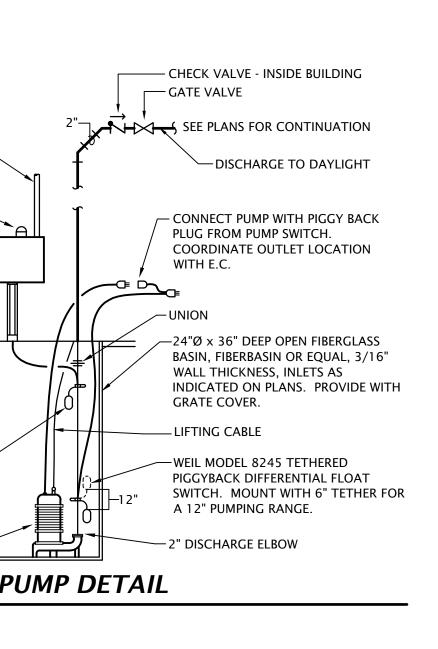
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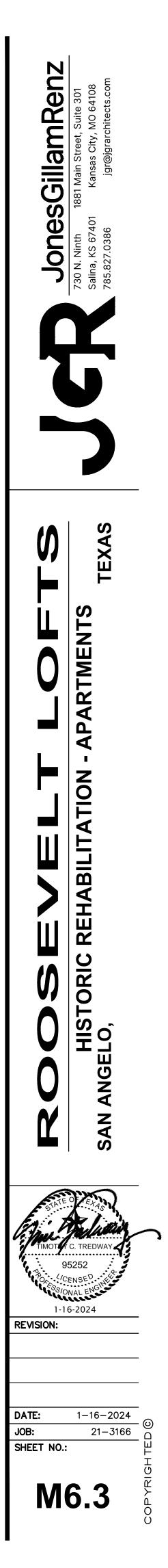
January 2024

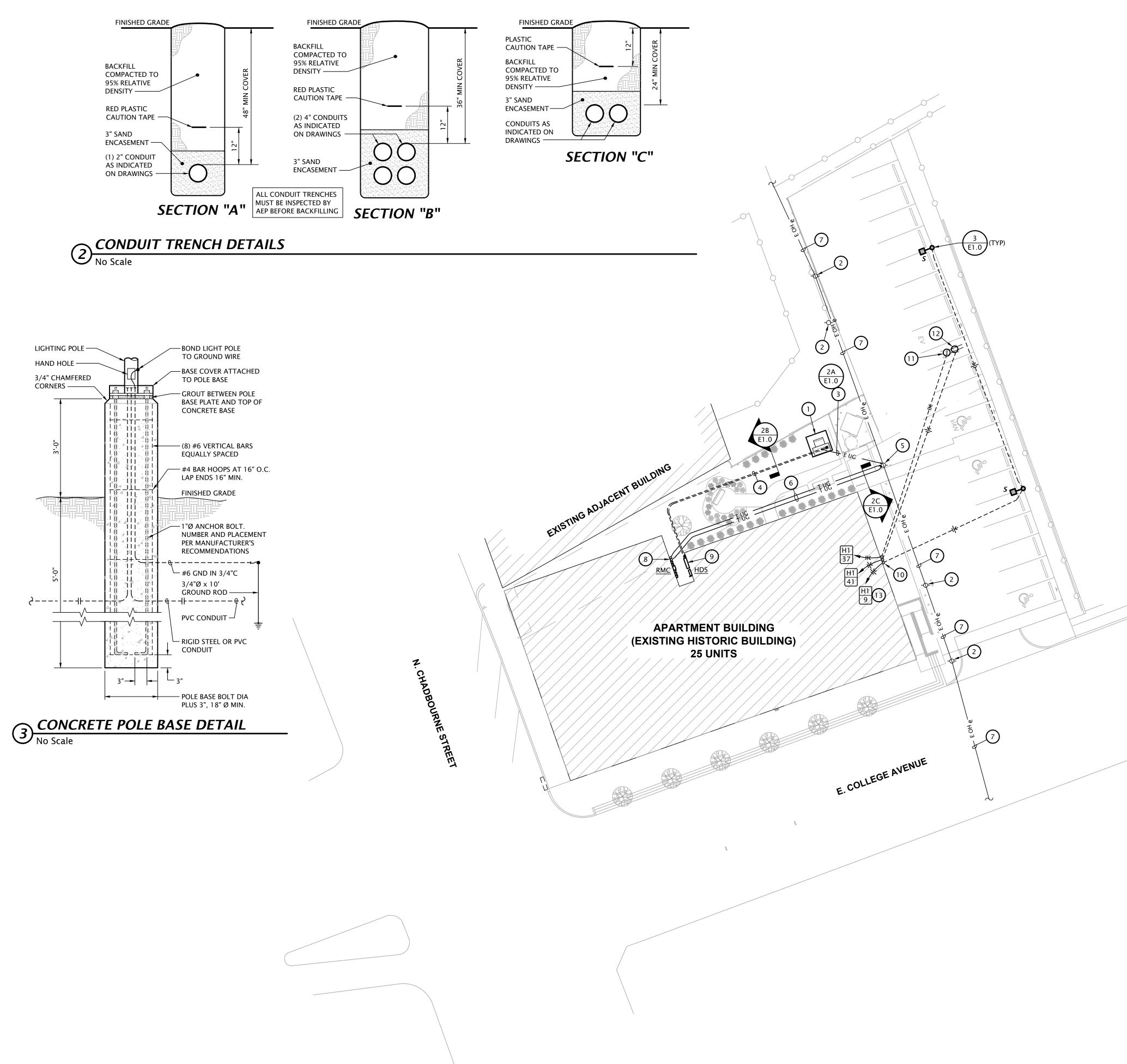


- PROVIDE NVENT CADDY PYRAMID FIXED STRUT SUPPORT OR EQUIVALENT.

REFRIGERANT LINESET ROOF SUPPORT DETAIL







ELECTRICAL SITE PLAN 1" = 20'-0"



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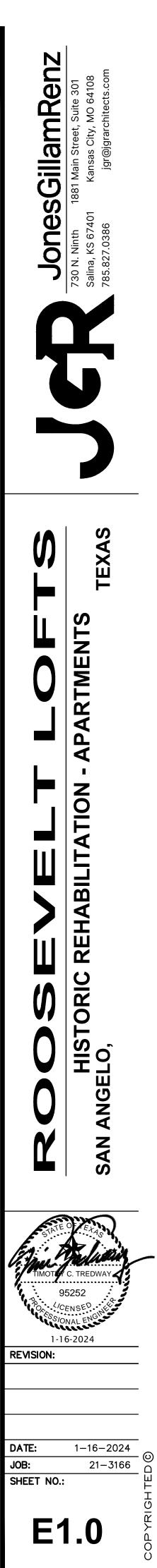
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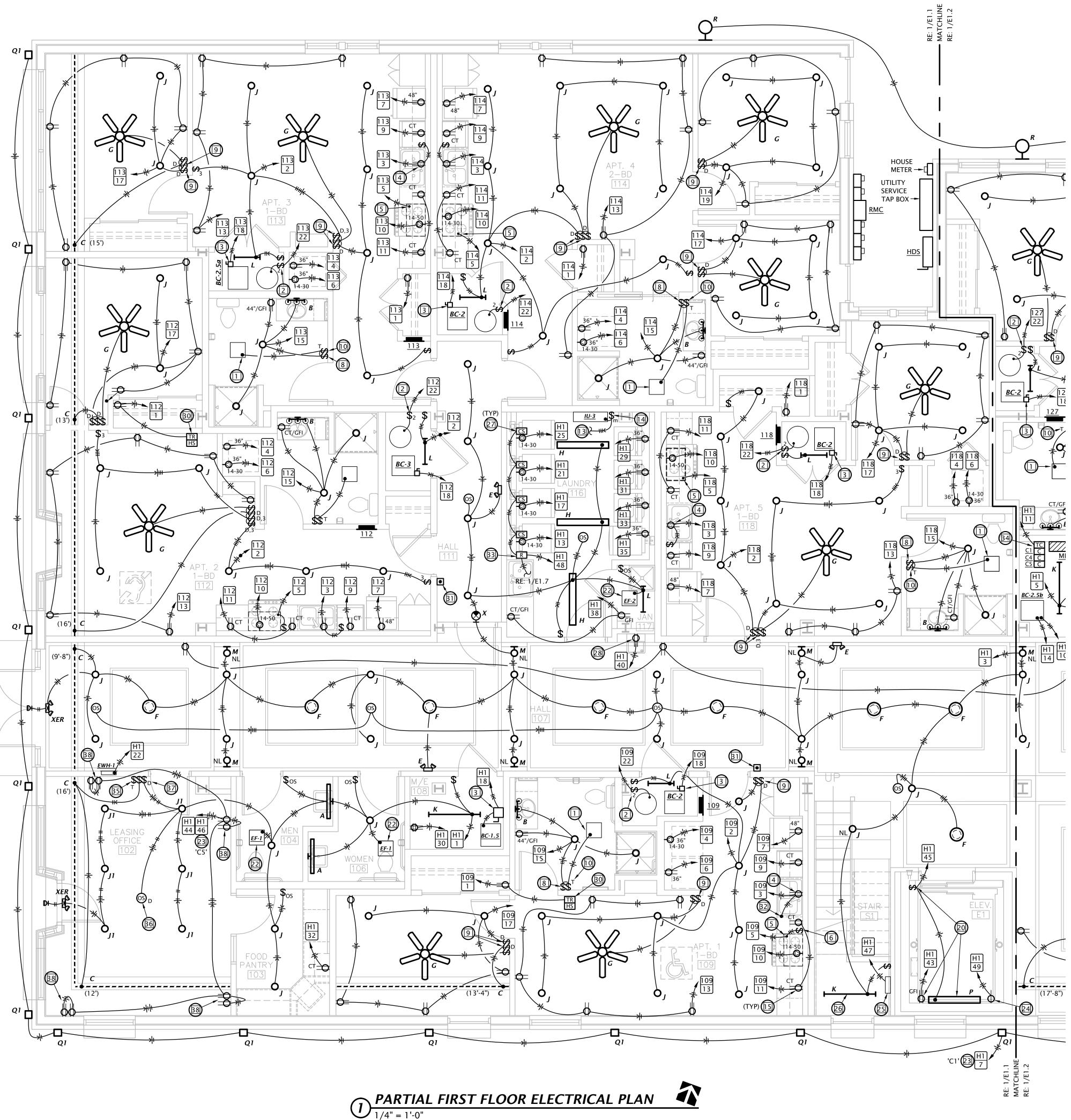
GENERAL SITE POWER NOTES

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND ASSOCIATED TRENCHING AND BACKFILL REQUIRED FOR UNDERGROUND ELECTRICAL UTILITY PRIMARY CABLE. POWER COMPANY SHALL FURNISH, INSTALL, AND TERMINATE ALL CONDUCTORS.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND ASSOCIATED TRENCHING AND BACKFILL REQUIRED FOR UNDERGROUND ELECTRICAL SERVICE LATERALS FROM UTILITY TRANSFORMERS TO SERVICE EQUIPMENT AT BUILDING EXTERIORS. POWER COMPANY SHALL FURNISH, INSTALL, AND TERMINATE ALL CONDUCTORS.
- C. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUIT ABOVE GRADE SHALL BE SCHEDULE 80 PVC.
- D. ALL CONDUIT TRENCHES MUST BE INSPECTED BY AEP BEFORE BACKFILLING.

(#) ELECTRICAL SITE PLAN NOTES BY SYMBOL

- 1. POWER COMPANY PAD MOUNTED TRANSFORMER. PROVIDE 8' W x 8' L x 6" D CONCRETE PAD PER AEP TEXAS SERVICE STANDARDS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH AEP TEXAS PRIOR TO COMMENCING WORK.
- 2. EXISTING UTILITY POLE TO REMAIN, SHOWN FOR REFERENCE ONLY. 3. 4" CONDUIT WITH PULL ROPE BELOW GRADE FOR POWER COMPANY PROVIDED PRIMARY CABLING. COORDINATE ROUTING WITH AEP TEXAS.
- 4. (4) 4" CONDUITS WITH PULL ROPE BELOW GRADE FOR POWER COMPANY PROVIDED SERVICE LATERAL CABLING. COORDINATE ROUTING WITH AEP TEXAS.
- 5. EXISTING UTILITY POLE TO BE UTILIZED FOR NEW PRIMARY SERVICE DROP. COORDINATE PRIMARY CONDUIT STUB-UP WITH POWER COMPANY. 6. (2) 4" CONDUITS BELOW GRADE FOR COMMUNICATIONS SERVICES. PROVIDE PULLSTRING
- IN EACH RACEWAY. 7. EXISTING ELECTRIC UTILITY 3-PHASE OVERHEAD PRIMARY DISTRIBUTION TO REMAIN.
- 8. SEE SHEET E1.7 FOR CONTINUATION INSIDE BUILDING.
- 9. ELECTRICAL UTILITY SERVICE TAP BOX. SEE RISER DIAGRAM, SHEET E6.1.
- 10. PENETRATE EXTERIOR WALL WITH WEATHERPROOF CONDUIT BODIES AS LOW TO GROUND AS POSSIBLE. COORDINATE LOCATION WITH G.C. SEAL WEATHER TIGHT.
- 11. MAKE FINAL CONNECTION TO OWNER PROVIDED SINGLE PORT EV CHARGING STATION EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S INSTRUCTIONS.
- 12. MOUNT RECEPTACLE ON BOLLARD 18" AFG. COORDINATE EXACT LOCATION AND
- REQUIREMENTS WITH G.C. 13. ROUTE CIRCUIT THROUGH CONTACTOR 'C4'. RE: 5/E6.1.









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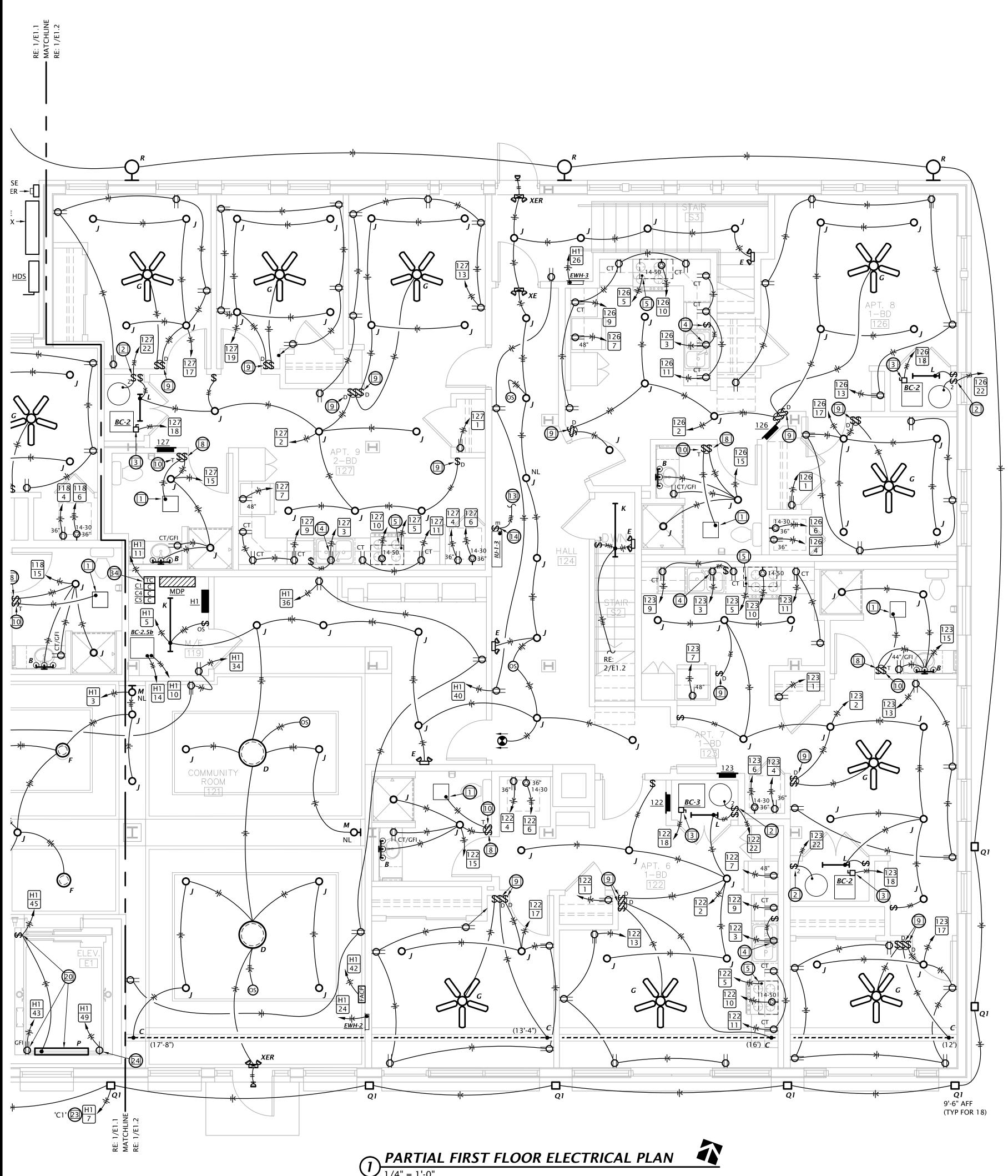
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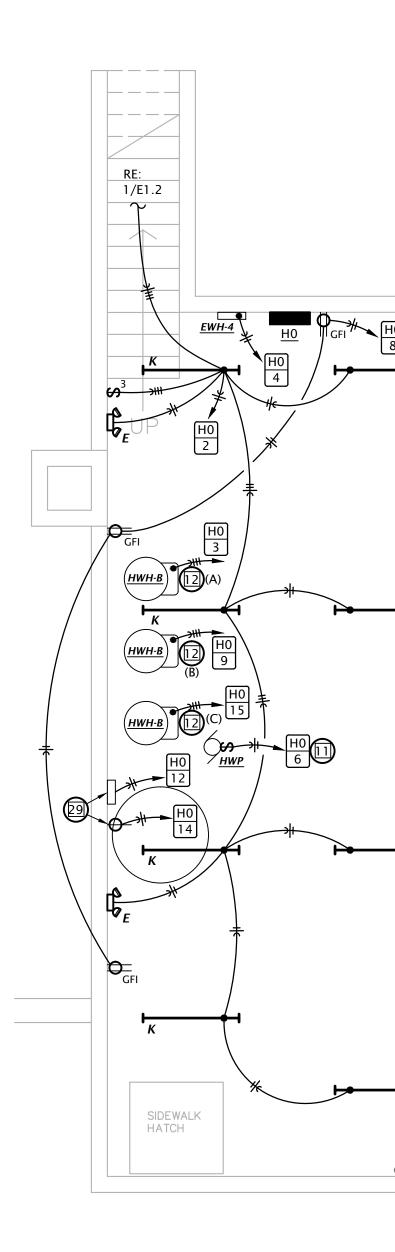
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ELECTRICAL PLAN NOTES BY SYMBOL

- 1. CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
- 2. PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.
- 3. PROVIDE 60A/2P DISCONNECT SWITCH AND CONNECT TO BLOWER COIL WITH ELECTRIC HEAT. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
- 4. SPLIT-WIRE DUPLEX RECEPTACLE BELOW COUNTER. TOP HALF OF RECEPTACLE TO BE SWITCHED FOR CONTROL OF GARBAGE DISPOSAL. BOTTOM HALF OF RECEPTACLE TO BE WIRED UNSWITCHED FOR DISHWASHER. RECEPTACLE SHALL BE LOCATED IN BACK OF BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS. PROVIDE CORDS AND GROUNDING PLUGS AS REQUIRED FOR DISPOSER AND DISHWASHER .
- 5. PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
- 6. PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
- 7. IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE.PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.
- 8. SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
- 9. PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES. 10. PROVIDE TIMER SWITCH EQUAL TO AIR CYCLER 'SMART EXHAUST' FOR CONTROL OF EXHAUST FAN. SET SWITCH PER MANUFACTURER'S INSTRUCTIONS TO OPERATE FAN AS INDICATED BELOW:
 - 1 BEDROOM: 20 MINUTES PER HOUR
 - 2 BEDROOM: 35 MINUTES PER HOUR
- 11. ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP ('HWP') THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
- 12. CONNECT UNBALANCED PORTION OF WATER HEATER LOAD TO PHASE LEG INDICATED.
- 13. (3) #12, #12G, 1/2"C FROM ASSOCIATED OUTDOOR UNIT ON ROOF. SEE SHEET E1.7. 14. 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P&S #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
- 15. AT RECEPTACLES ABOVE KITCHEN COUNTERS IN ACCESSIBLE UNITS (#109 & #203, PROVIDE 1" DEEP FLUSH TYPE EXTENSION ADAPTER, WIREMOLD #V5751WH, TO BRING RECEPTACLE CLOSER TO COUNTERTOP EDGE TO COMPLY WITH 24" SIDE REACH REQUIREMENT.
- 16. 30A/2P DISCONNECT SWITCH WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. SWITCH SHALL BE CAPABLE OF BEING LOCKED "OFF". MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO INSPECTION AND TEST PANEL (LDU) AT TOP OF 3RD FLOOR WITHIN ELEVATOR DOOR JAMB.
- 17. ELEVATOR POWER MODULE SWITCH: 100A/208V/3P SWITCH COMPLETE WITH 70A DUAL ELEMENT, TIME DELAY CLASS 'J' FUSES, 120V CONTROL TRANSFORMER, FIRE ALARM SAFETY INTERFACE RELAY, KEY TEST SWITCH, GREEN PILOT LIGHT, AUXILIARY CONTACTS FOR ELEVATOR RECALL, AND FIRE ALARM VOLTAGE MONITORING RELAY. COOPER BUSSMAN #PS-1-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
- 18. 3-PHASE POWER FEEDER AND (2) #18 STRANDED CU CONDUCTORS FROM ELEVATOR POWER MODULE SWITCH TO 'JH1' DISCONNECT SWITCH.
- 19. 100A/3P NON-FUSED DISCONNECT SWITCH (JH1) IN NEMA 1 ENCLOSURE. PROVIDE WITH SPST AUXILIARY CONTACTS RATED FOR MIN 2A AT 24VDC. MAKE FINAL CONNECTION TO ELEVATOR FUSE BOX. COORDINATE MOUNTING LOCATION AT TOP OF HOISTWAY AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
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- 23. ROUTE CIRCUIT THROUGH CONTACTOR INDICATED. SEE 5/E6.1.
- 24. SIMPLEX RECEPTACLE IN ELEVATOR PIT FOR ELEVATOR SUMP PUMP. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR AND ELEVATOR EQUIPMENT INSTALLER.
- 25. ELEVATOR SUMP PUMP ALARM PANEL IN CLOSET BELOW STAIR LANDING. PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
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- 29. PROVIDE 120V POWER CONNECTION TO SEWAGE EJECTOR ALARM PANEL AND SIMPLEX RECEPTACLE FOR POWER TO SEWAGE EJECTOR PUMP. COORDINATE REQUIREMENTS WITH G.C. AND PLUMBING CONTRACTOR.
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- 35. 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE 5/E6.1.
- 36. LINE VOLTAGE CEILING OCCUPANCY SENSOR/PHOTOCELL WITH DAYLIGHT HARVESTING CAPABILITY. SENSOR SHALL DIM 0-10V LIGHTS WHEN ADEQUATE DAYLIGHT IS PRESENT. SENSORWORX #SWX-2-3-1-2-D OR EQUAL.
- 37. PRESET SLIDE DIMMER, 0-10V, LEVITON #IP710-DLZ OR EQUAL. COORDINATE DEVICE COLOR WITH ARCHITECT.
- 38. ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT #44 (UNCONTROLLED) AND THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT #46 (CONTROLLED). CONTROLLED RECEPTACLE SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

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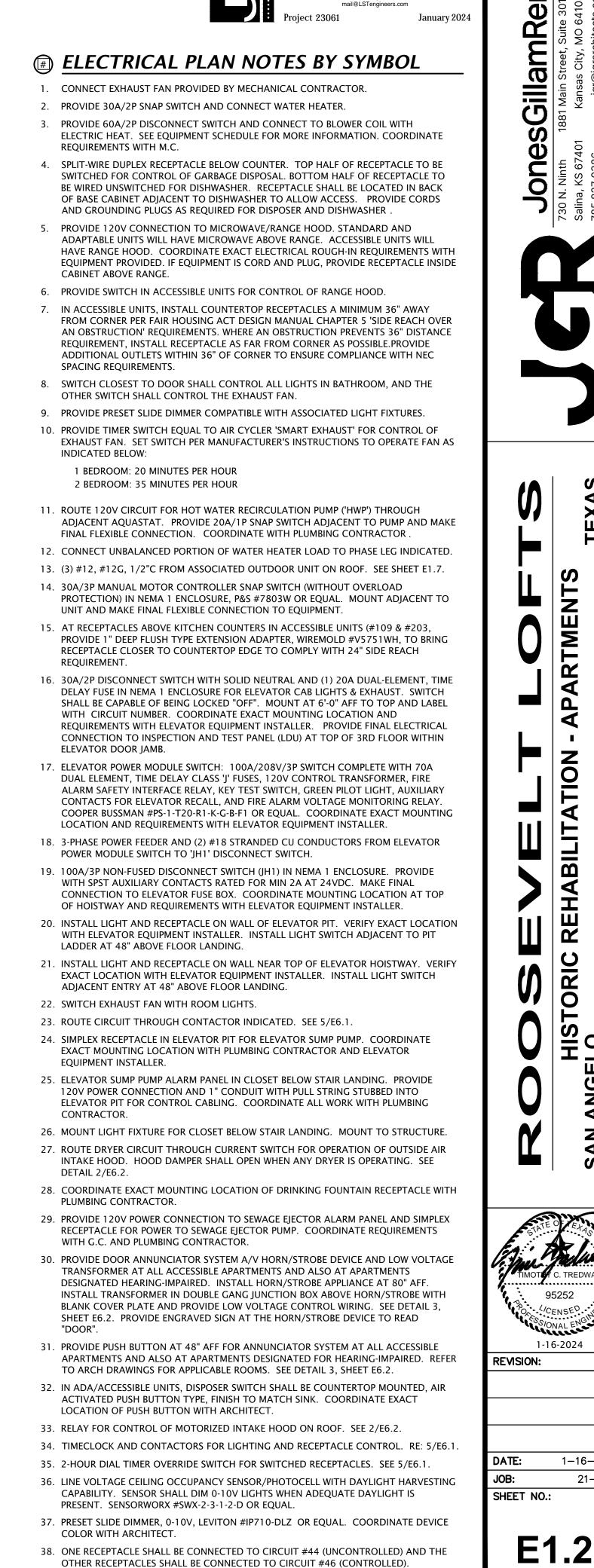




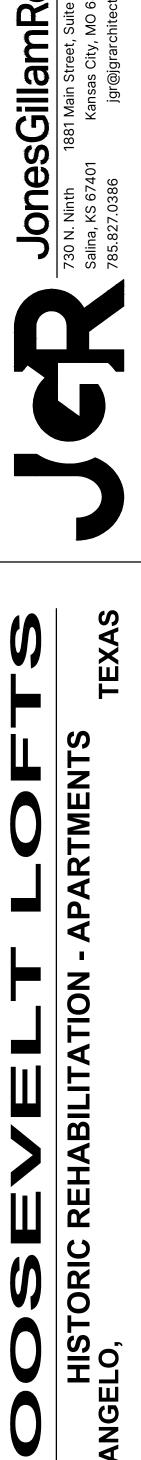


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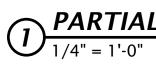
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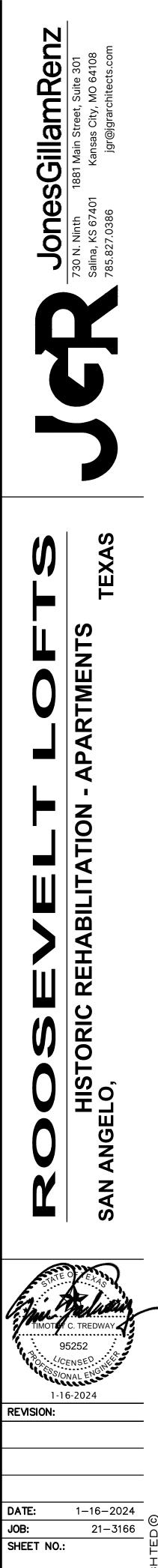
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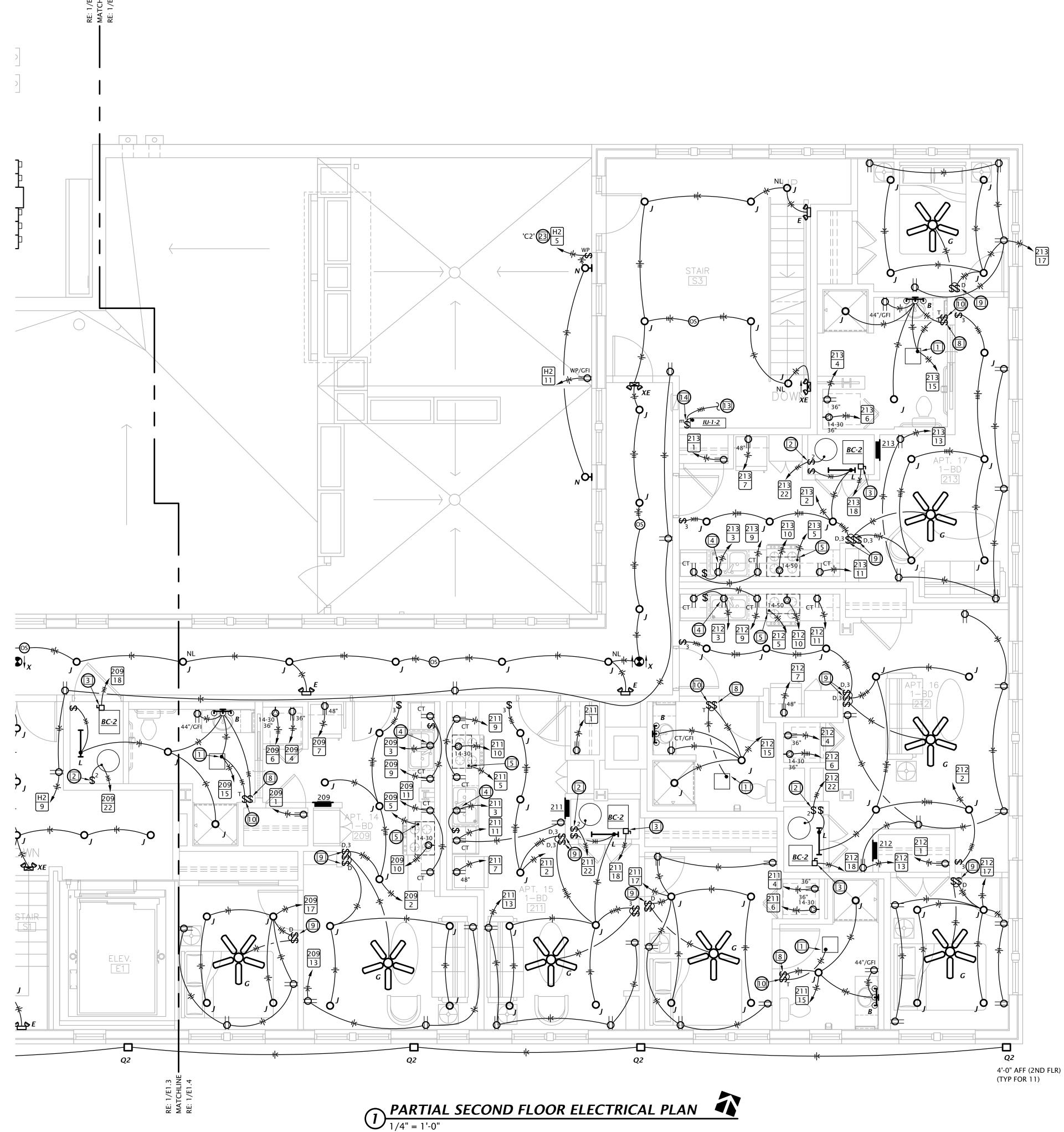
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E1.3





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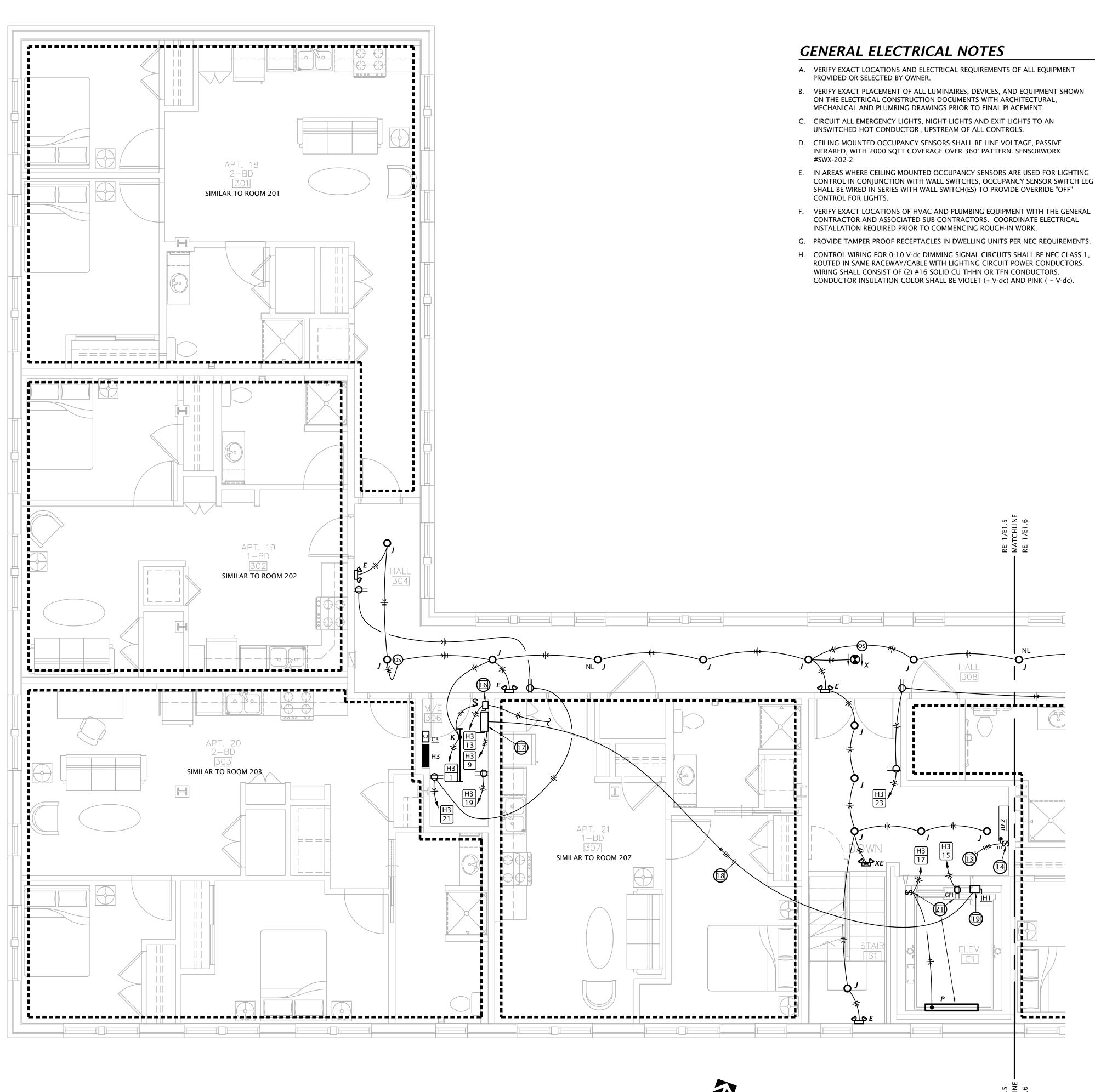
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- 14. 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P&S #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
- 15. AT RECEPTACLES ABOVE KITCHEN COUNTERS IN ACCESSIBLE UNITS (#109 & #203, PROVIDE 1" DEEP FLUSH TYPE EXTENSION ADAPTER, WIREMOLD #V5751WH, TO BRING RECEPTACLE CLOSER TO COUNTERTOP EDGE TO COMPLY WITH 24" SIDE REACH REQUIREMENT.
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HISTORIC REHABILITATION - APARTMENTS SAN ANGELO, TEXAS
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RE: RE:



ST Consulting Engineers, PA MANHATTAN WICHITA

www.LSTengineers.com

Project 23061

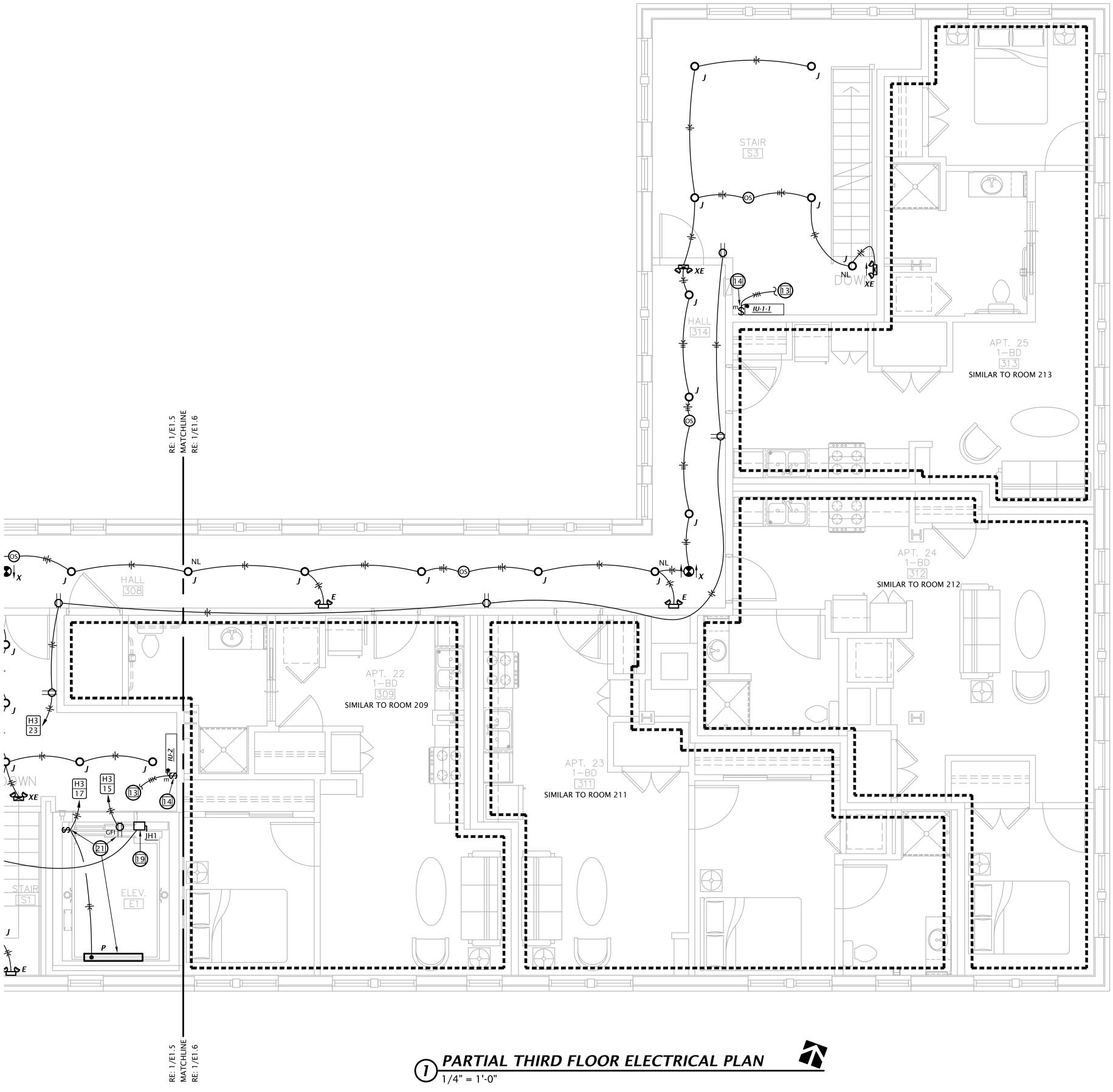
1809 Vue Du Lac Place, Suite 201 125 S. Washington, Suite 15 Manhattan, KS 66503 Wichita, Kansas 67202 785.587.8042 316.285.0696

> mail@LSTengineers.com January 2024

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ROOSE/ELT LOFTS	HISTORIC REHABILITATION - APARTMENTS SAN ANGELO, TEXAS	
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### LST Consulting Engineers, PA MANHATTAN WICHITA

Project 23061

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> www.LSTengineers.com mail@LSTengineers.com January 2024

### **ELECTRICAL PLAN NOTES BY SYMBOL**

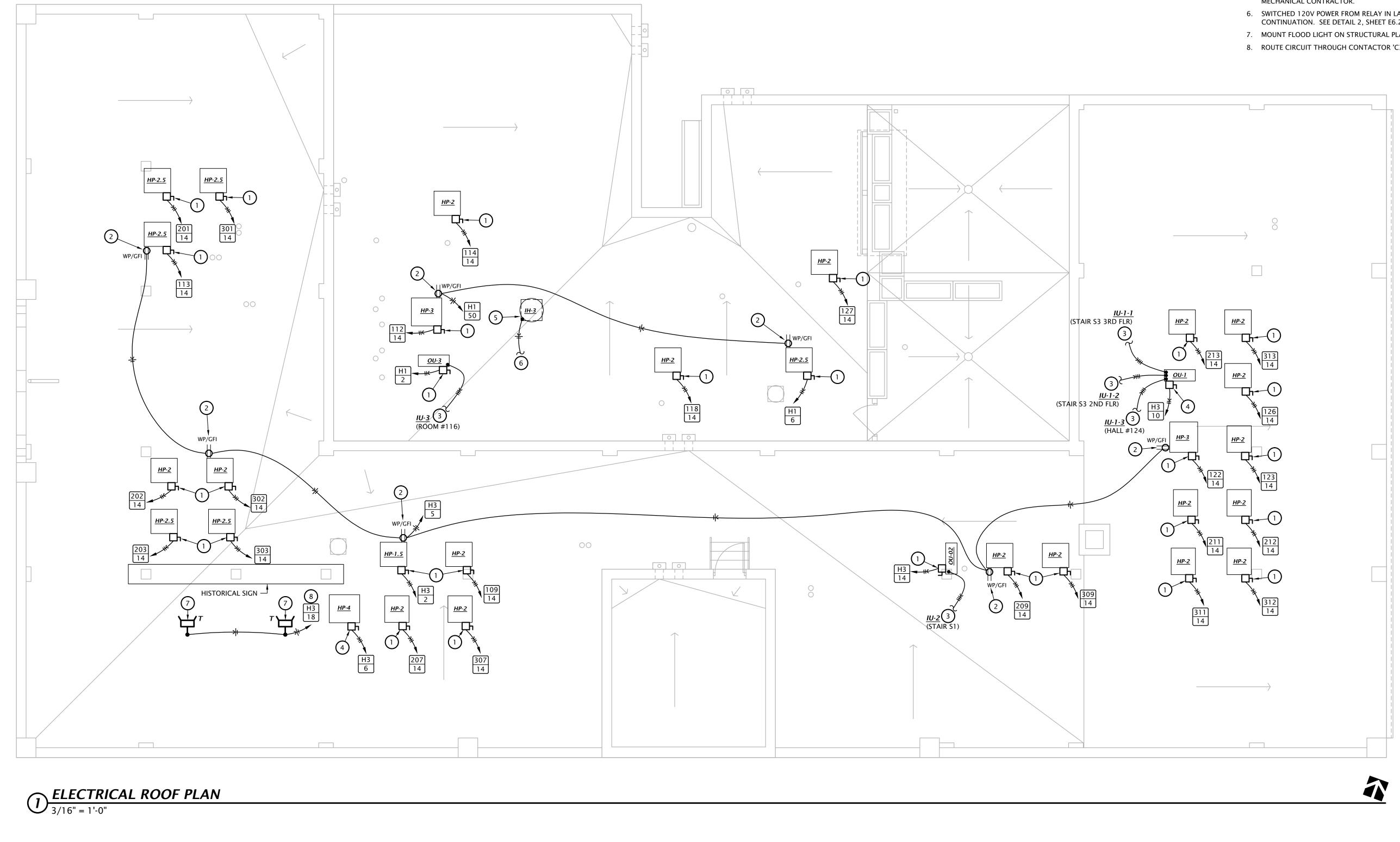
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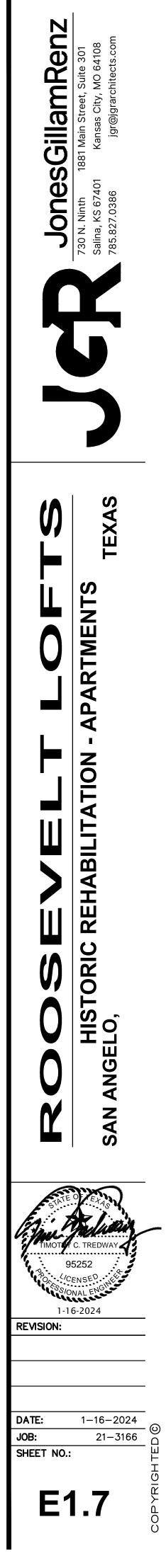
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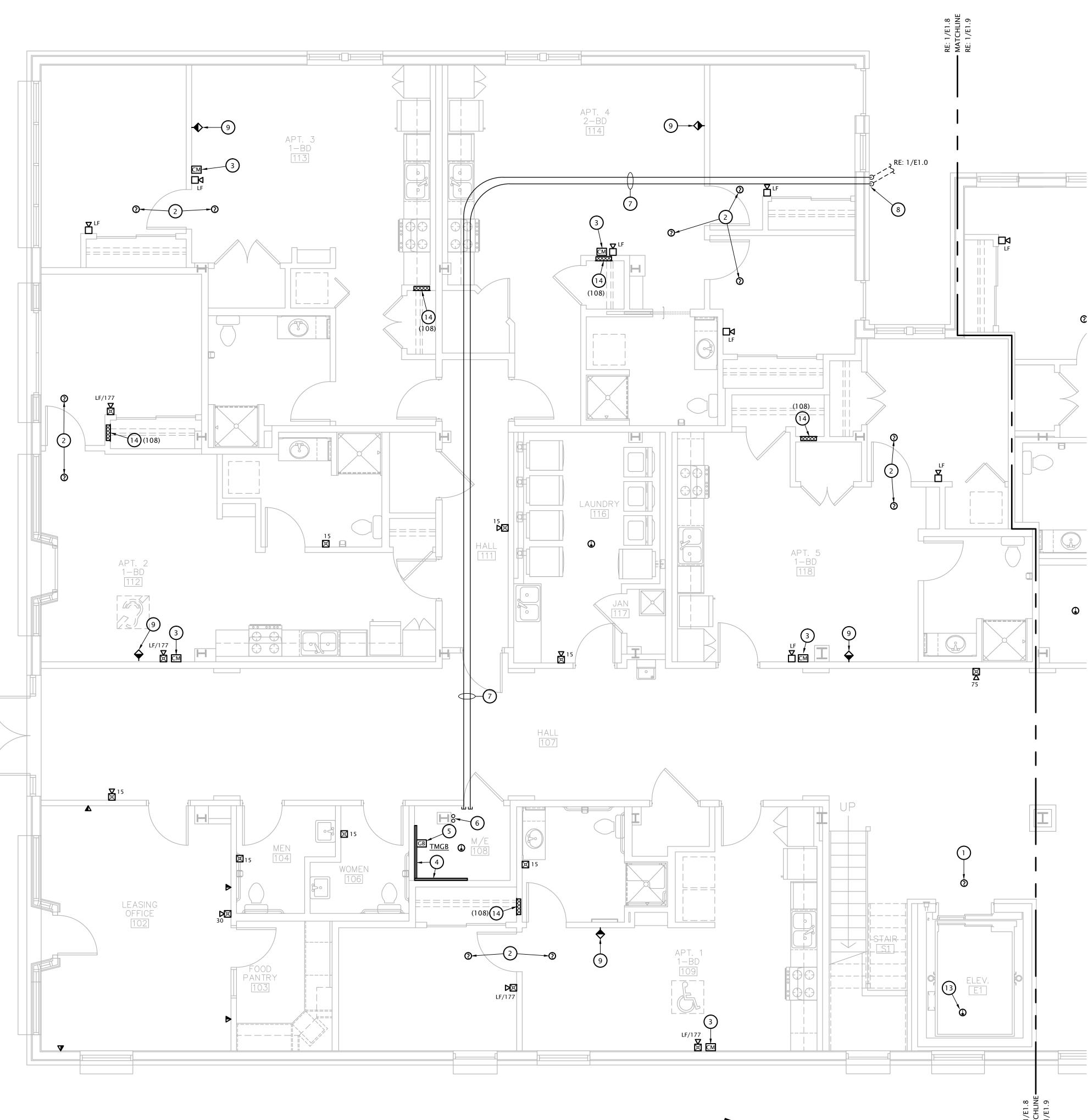
### GENERAL ELECTRICAL NOTES

- A. COORDINATE EXACT PANEL OF CIRCUIT ORIGIN FOR RESIDENTIAL TENANT HEAT PUMP UNITS.
- B. ALL CONDUIT PENETRATIONS THROUGH ROOF SHALL OCCUR AT PIPE CURBS ALONG WITH REFRIGERANT PIPING, ETC. COORDINATE CURB LOCATIONS WITH MECHANICAL CONTRACTOR.

### ELECTRICAL PLAN NOTES BY SYMBOL

- 1. 30A/2P NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. MOUNT SWITCH TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS. MAKE FINAL CONNECTION TO EQUIPMENT IN 'LFMC' RACEWAY.
- 2. MOUNT RECEPTACLE TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS. 3. PROVIDE (3) #12, #12G, 1/2"C FROM OUTDOOR UNIT TO ASSOCIATED INDOOR UNIT
- (UNIT ID AND LOCATION NOTED). 4. 60A/2P NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. MOUNT SWITCH TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS. MAKE FINAL
- CONNECTION TO EQUIPMENT IN 'LFMC' RACEWAY. 5. CONNECT TO MOTORIZED DAMPER FOR INTAKE HOOD. COORDINATE WITH
- MECHANICAL CONTRACTOR.
- 6. SWITCHED 120V POWER FROM RELAY IN LAUNDRY ROOM 116. SEE SHEET E1.1 FOR CONTINUATION. SEE DETAIL 2, SHEET E6.2.
- 7. MOUNT FLOOD LIGHT ON STRUCTURAL PLATFORM AND AIM AT SIGN.
- 8. ROUTE CIRCUIT THROUGH CONTACTOR 'C3'. SEE DETAIL 5, SHEET E6.1.







 $\underbrace{1}_{1/4" = 1'-0"} PARTIAL FIRST FLOOR SPECIAL SYSTEMS PLAN$ 

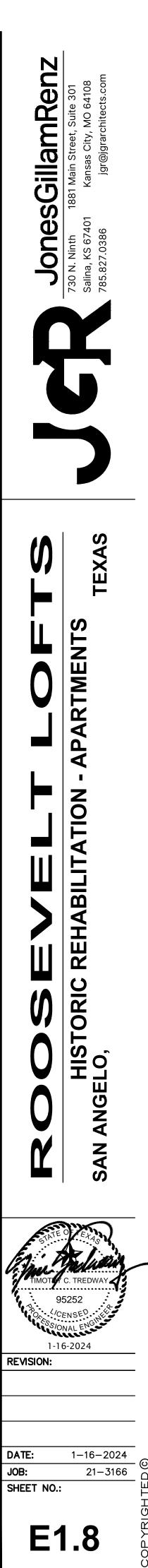
RE: 1/E1.8 MATCHLINE RE: 1/E1.9

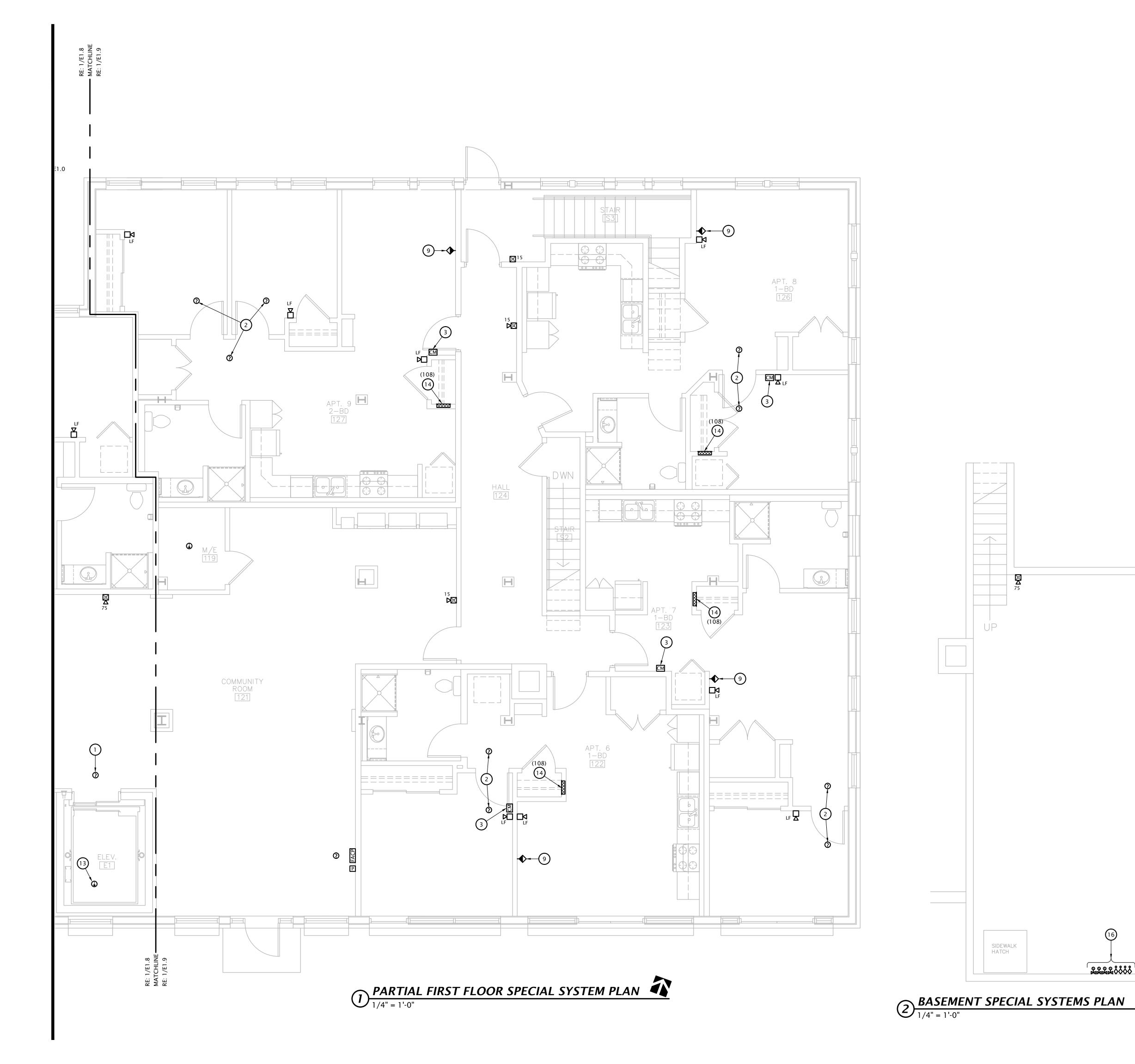
Project 23061

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- 3. FIRE ALARM ADDRESSABLE CONTROL MODULE FOR CONTROL OF APARTMENT UNIT'S NOTIFICATION APPLIANCE CIRCUIT. MODULE SHALL BE PROGRAMMED TO ACTIVATE APARTMENT UNIT'S NOTIFICATION APPLIANCES UPON GENERAL BUILDING FIRE ALARM AND UPON ACTIVATION OF ANY SMOKE DETECTOR OR CO DETECTOR WITHIN APARTMENT UNIT. MOUNT FLUSH IN WALL AT 8'-0" AFF.
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- 5. TELECOMMUNICATIONS GROUND BAR AT 18" AFF. SEE DETAIL 6, SHEET E6.1.
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- 10. ADDRESSABLE FIRE ALARM RELAY FOR ELEVATOR POWER SHUNT-TRIP, AND ADDRESSABLE MONITORING MODULE FOR MONITORING OF SHUNT TRIP VOLTAGE. SEE DETAIL 4:E6.1 .
- 11. ADDRESSABLE FIRE ALARM RELAYS FOR ELEVATOR PRIMARY AND ALTERNATE FLOOR RECALL AND FIREMAN'S HAT. MOUNT ON HOISTWAY WALL ABOVE CEILING AND PROVIDE ACCESS PANEL IN CEILING AS REQUIRED. COORDINATE WITH ELEVATOR EQUIPMENT INSTALLER AND G.C. SEE DETAIL 4:E6.1
- 12. INSTALL SMOKE DETECTOR AND HEAT DETECTOR AT TOP OF ELEVATOR HOISTWAY PER LOCAL JURISDICTION REQUIREMENTS. SEE DETAIL 4:E6.1.
- 13. INSTALL HEAT DETECTOR IN ELEVATOR PIT. SEE DETAIL 4:E6.1. 14. TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. SEE DETAIL 1:E6.2. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER .
- HOMERUN CAT6 AND COAX CABLE TO ROOM INDICATED. 15. COORDINATE TELECOM OUTLET LOCATION NEAR TOP OF HOISTWAY WITH ELEVATOR INSTALLER.
- 16. PROVIDE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, AND BELL/GONG. SEE E1.1 SITE PLAN FOR LOCATION OF TAMPER SWITCHES. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO BID.





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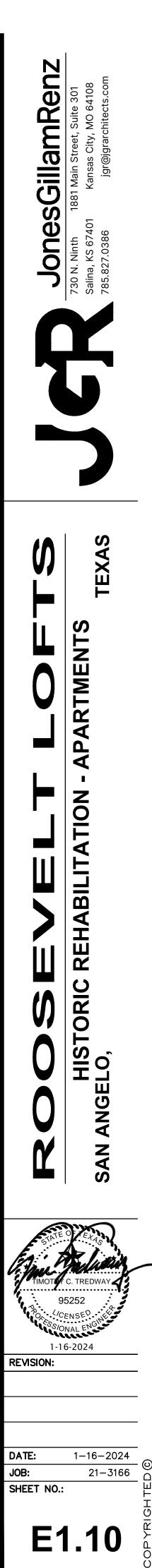


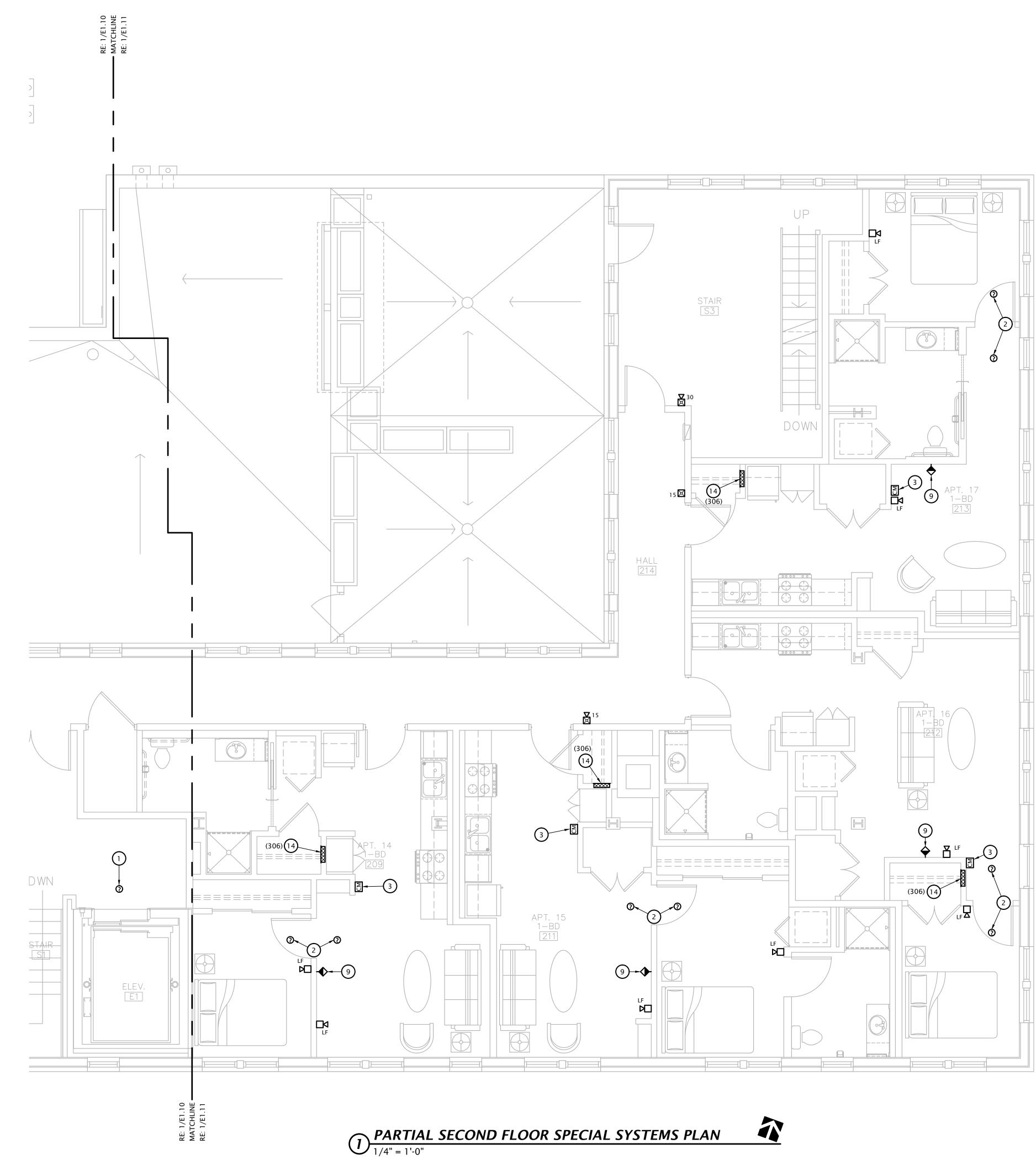
# Project 23061

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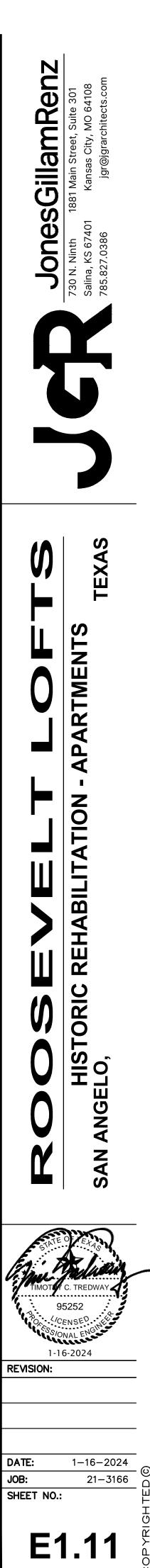


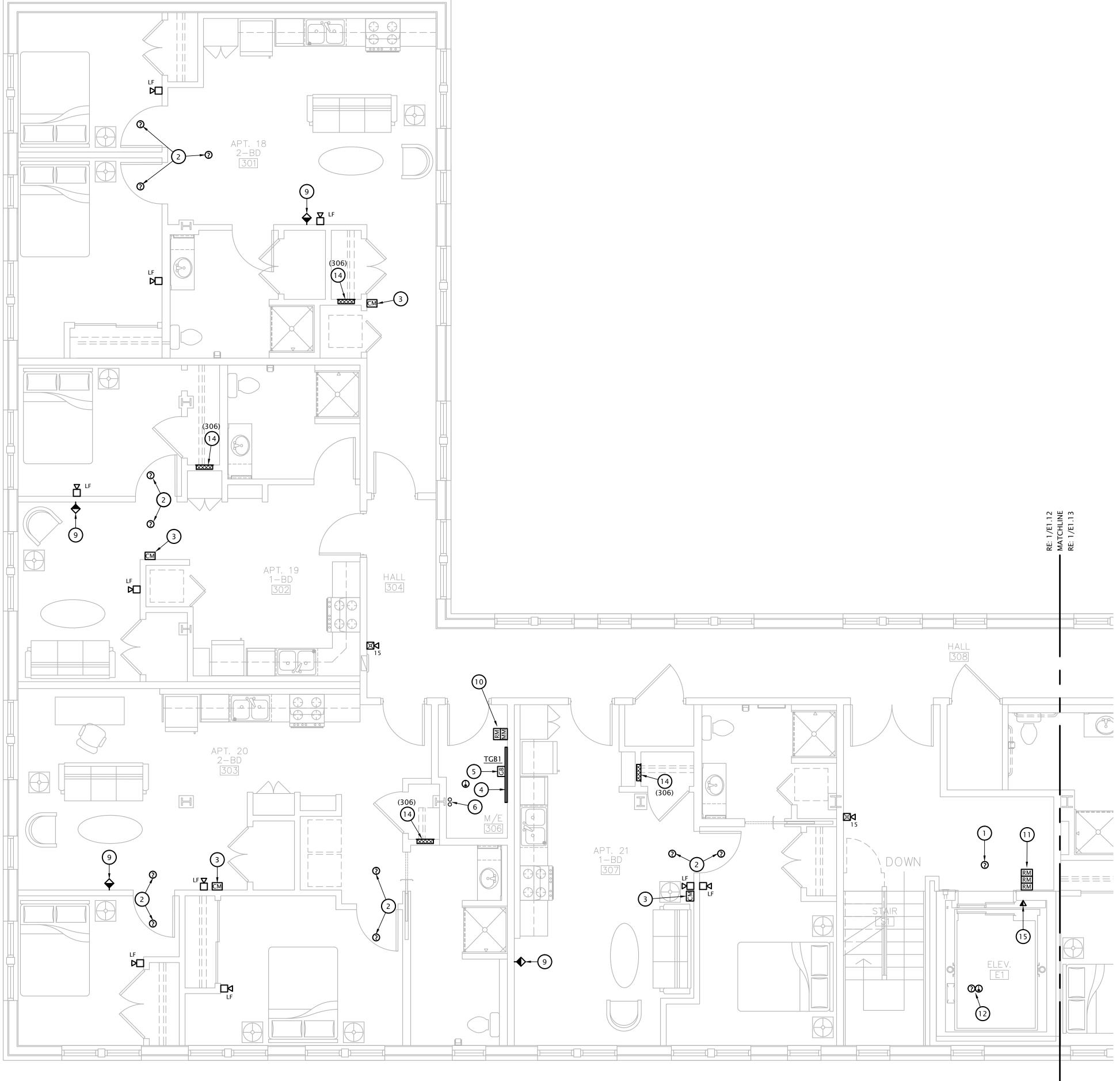
# Project 23061

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## **PARTIAL THIRD FLOOR SPECIAL SYSTEMS PLAN** 1/4" = 1'-0"

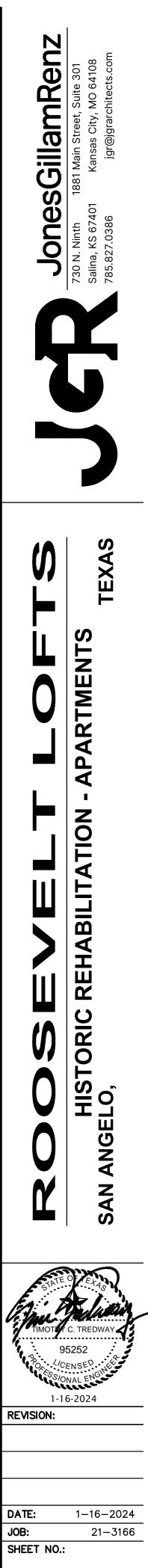
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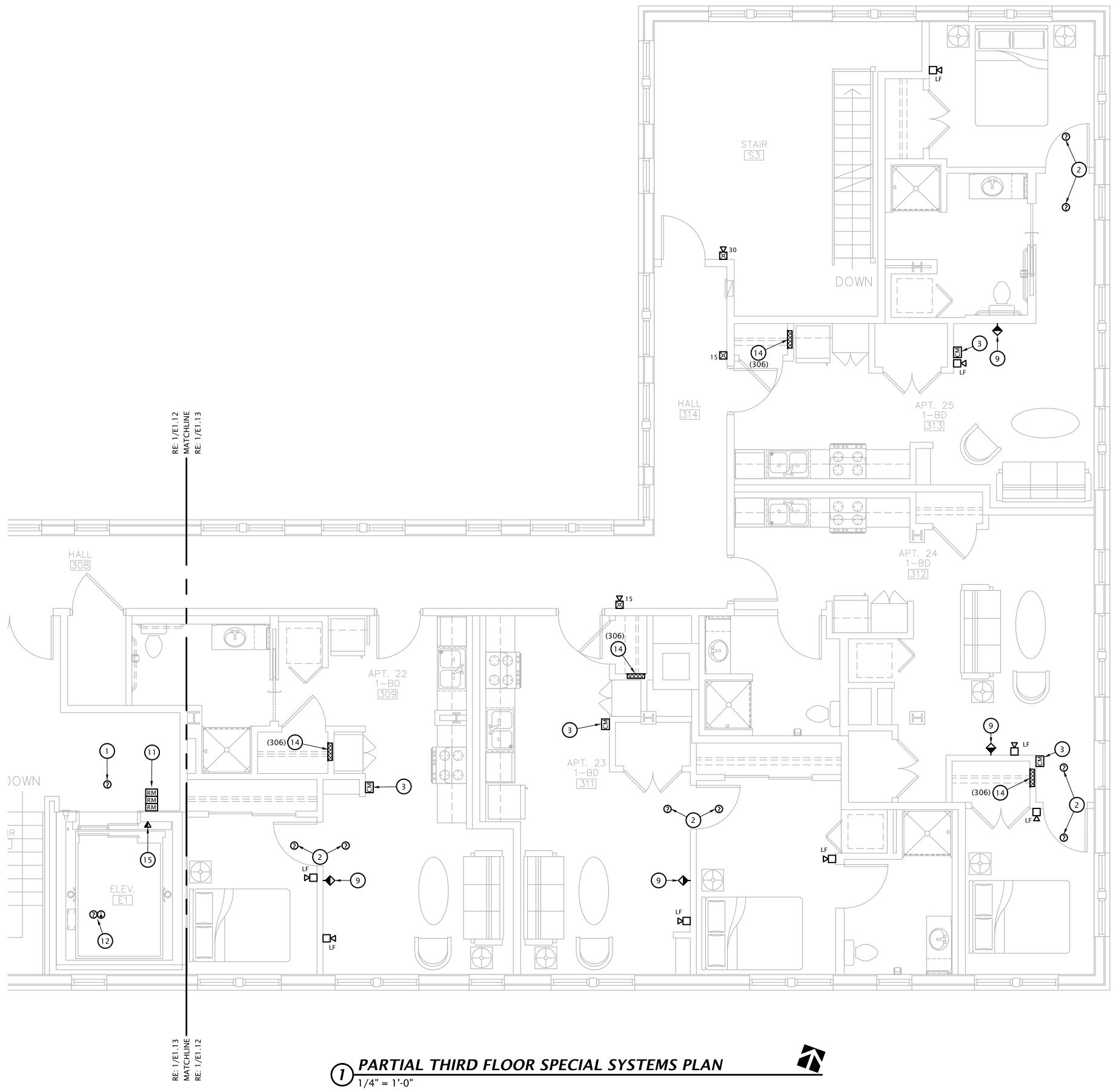


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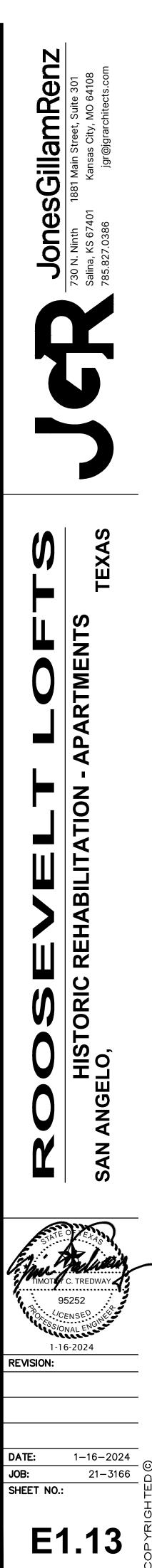


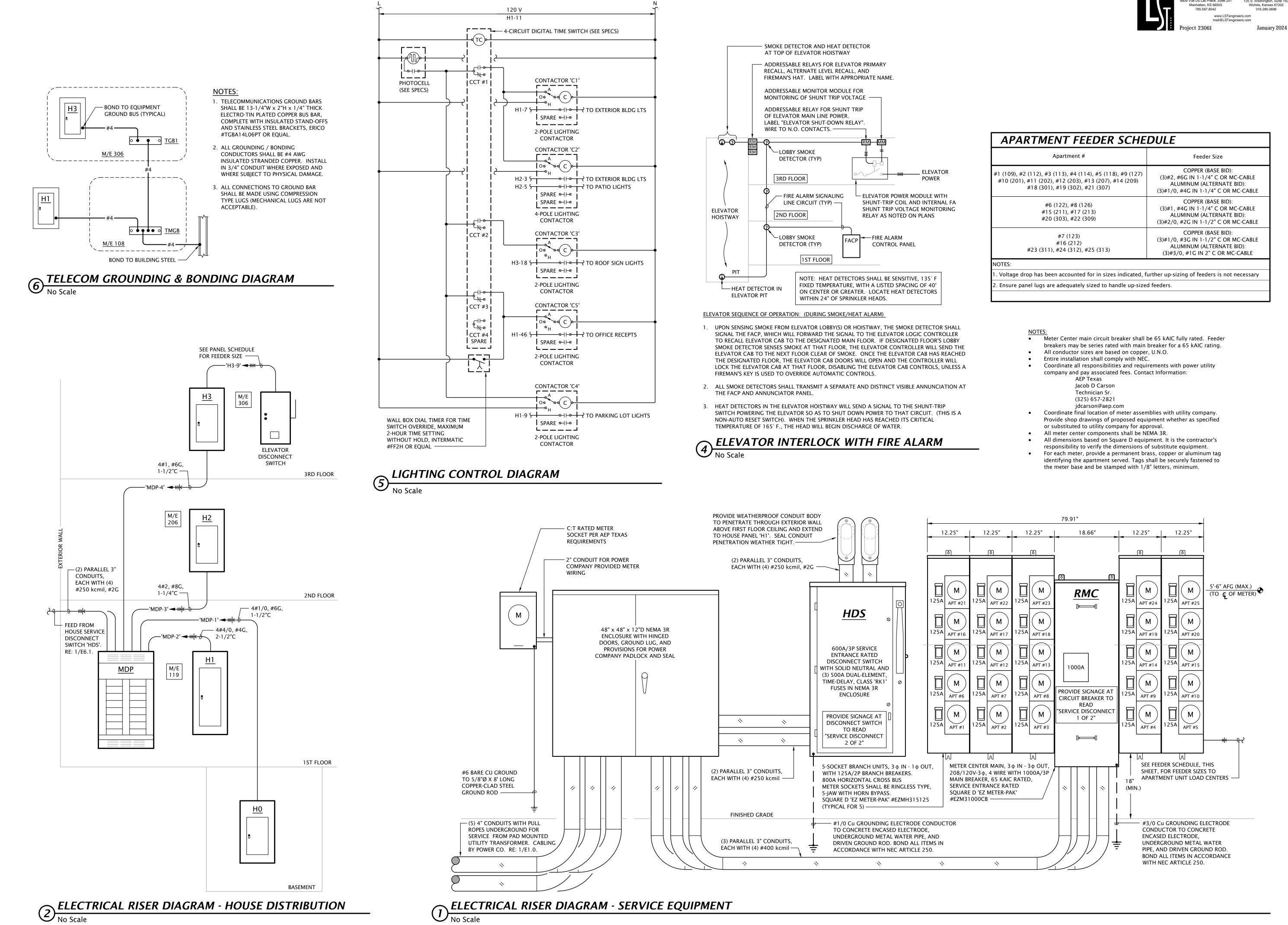
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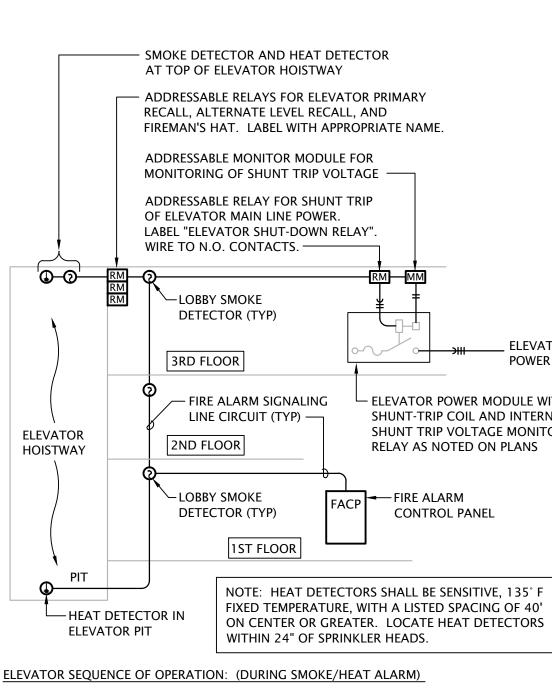


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- HOMERUN CAT6 AND COAX CABLE TO ROOM INDICATED. 15. COORDINATE TELECOM OUTLET LOCATION NEAR TOP OF HOISTWAY WITH ELEVATOR INSTALLER.
- 16. PROVIDE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, AND BELL/GONG. SEE E1.1 SITE PLAN FOR LOCATION OF TAMPER SWITCHES. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO BID.











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**REVISION:** 

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JOB:

### CIRCUIT AND RACEWAY SYMBOLS

	CONDUIT STUB OUT WITH NYLON END BUSHING
o	CONDUIT TURNED UP
ə	CONDUIT TURNED DOWN
ŧ	GROUNDING CONNECTION
ŧ	GROUNDING CONNECTION
LIGH	TING SYMBOLS

×	CEILING FAN
•	PENDANT OR SURFACE MOUNTED LINEAR LUMINAIRE
1	STANDARD STRIP LIGHT
0	SURFACE DOWNLIGHT
Ю	WALL MOUNTED LUMINAIRE
<b>4</b>	TWIN HEAD EMERGENCY LIGHTING UNIT
	COMBINATION EXIT/TWIN HEAD EMERGENCY LIGHTING UNIT
Ю •0	WEATHERPROOF EXTERIOR REMOTE EMERGENCY HEAD - WALL AND CEILING MOUNTED
K⊗¦ ⊗¦	SINGLE FACE EXIT SIGN - WALL AND CEILING MOUNTED WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS
	DOUBLE FACE EXIT SIGN - WALL AND CEILING MOUNTED WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS

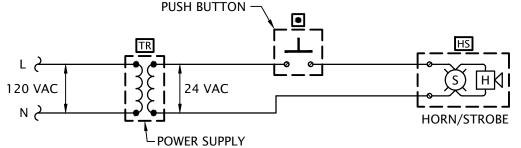
### POWER SYMBOLS

POW	ER SYMBOLS	ABBR	EVIATIONS
<u> </u>	SINGLE RECEPTACLE	A	AMPERE
<del>o</del>	DUPLEX RECEPTACLE	ac	ALTERNATING CURREN
-		AFF	ABOVE FINISH FLOOR
<b>—</b>	DOUBLE DUPLEX RECEPTACLE	C	CONDUIT
<b>-۞</b> #	SPECIAL RECEPTACLE (# = NEMA CONFIGURATION)	CATV	COMMUNITY ANTENNA
\$	SINGLE POLE TOGGLE SNAP SWITCH	dc	DIRECT CURRENT
€ 2	DOUBLE POLE TOGGLE SNAP SWITCH	E	ELECTRICAL
₩3	THREE-WAY TOGGLE SNAP SWITCH	EC	ELECTRICAL CONTRAC
∽m	MOTOR HP RATED SWITCH WITHOUT OVERLOAD PROTECTION	EMT	ELECTRICAL METALLIC
€, E	PRESET SLIDE DIMMER WALL SWITCH	G	GROUNDING (BONDING
<b>69</b> ^T	TIMER WALL SWITCH	GC GFCI	GENERAL CONTRACTO
↔ _{os}	LINE VOLTAGE OCCUPANCY SENSING WALL SWITCH	kcmil	THOUSAND CIRCULAR
6	LINE VOLTAGE CEILING OCCUPANCY SENSOR	MC	MECHANICAL CONTRA
ТС	TIMECLOCK	МСВ	MAIN CIRCUIT BREAKER
®	EXTERIOR PHOTOCELL	MLO	MAIN LUG ONLY
C	CONTACTOR	NEC	NATIONAL ELECTRICAL
R	POWER RELAY	NFPA	NATIONAL FIRE PROTEC
CS	CURRENT SWITCH	PH or φ	PHASE
		PVC	POLYVINYL CHLORIDE
	PUSH BUTTON OPERATOR	RCPT	RECEPTACLE
0 O	JUNCTION BOX	ТҮР	TYPICAL
Ś	MOTOR	U.L.	
Ś	MOTORIZED DAMPER	UNO	
ս	DISCONNECT SWITCH	V	VOLT (ALTERNATING C
	BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED	VA	VOLTAMPERE
	BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED	W	WATT(S)
	DISTRIBUTION PANELBOARD		

### SITE ELECTRICAL SYMBOLS

UNDERGROUND ELECTRICAL PRIMARY
UNDERGROUND TELEPHONE SERVICE
POLE MOUNTED AREA LIGHT
POWER COMPANY PAD MOUNTED UTILITY TRANSFORMER
POWER COMPANY UTILITY POLE

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DOOR ALARM BUZZER SYSTEM NOTES

- 1. PROVIDE DOOR ANNUNCIATOR SYSTEM COMPLETE WITH PUSH BUTTON, HORN/STROBE(S), POWER SUPPLIES AND ALL WIRING REQUIRED. HORN/STROBE SHALL ACTIVATE WHEN PUSH BUTTON IS DEPRESSED.
- 2. HORN/STROBE SHALL OPERATE AT 24VAC, HAVE A CLEAR LENS WITH 50cd STROBE AND HORN WITH 82dB AT 10', UL 1638 LISTED, EDWARDS #6536-G5. FLUSH MOUNT IN WALL AT 6'-8" AFF.
- 3. PUSH BUTTON SHALL BE WHITE WITH CHROME RIM, NON-ILLUMINATED, WITH N.O. MOMENTARY CONTACTS, RATED FOR 0.67 AMPS AT 24VAC, EDWARDS #620. PROVIDE WITH STAINLESS STEEL COVER PLATE, EDWARDS #147-10. MOUNT AT 48" AFF.
- 4. POWER SUPPLY SHALL BE A LOW VOLTAGE CLASS 2 TRANSFORMER WITH 120VAC PRIMARY AND 24VAC SECONDARY, 20VA, EDWARDS #598. FLUSH MOUNT IN 2-GANG WALL BOX WITH BLANK COVER PLATE, DIRECTLY ABOVE HORN/STROBE. 5. LOW VOLTAGE CLASS 2 CABLING SHALL BE MINIMUM 18 AWG UNSHIELDED.



### **TELECOMMUNICATIONS SYMBOLS**

TELECOM VOICE/DATA OUTLET (ROUGH-IN ONLY) LIVING UNIT OUTLET CATV/PHONE OUTLET TELECOMMUNICATIONS GROUND BAR TELECOMMUNICATIONS BOARD

### FIRE ALARM SYMBOLS

FIRE ALARM CONTROL PANEL MANUAL PULL STATION

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GB

FACP

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HEAT DETECTOR

- SPOT TYPE AREA SMOKE DETECTOR ADDRESSABLE MONITORING MODULE ADDRESSABLE RELAY MODULE ADDRESSABLE CONTROL MODULE NOTIFICATION HORN, WALL NOTIFICATION STROBE, WALL (CANDELA NOTED) NOTIFICATION HORN/STROBE, WALL (CANDELA NOTED) NOTIFICATION HORN, LOW FREQUENCY TYPE, WALL FIRE SPRINKLER SYSTEM FLOW SWITCH
- FIRE SPRINKLER SYSTEM TAMPER SWITCH

FIRE SPRINKLER SYSTEM BELL/GONG

CEILING MOUNTED

### SYMBOL MODIFYING DESIGNATORS

 FLUSH MOUNTED IN SUSPENDED CEILINGS SURFACE MOUNTED TO STRUCTURE ABOVE IN OPEN CEILINGS MOUNT BOTTOM OF DEVICE AT 6" ABOVE COUNTERTOP GROUND FAULT CIRCUIT INTERRUPTING DEVICE NIGHTLIGHT WIRED TO UNSWITCHED HOT CONDUCTOR PROVIDE WEATHERPROOF ENCLOSURE FOR DEVICE MOUNTING HEIGHT OF DEVICE ABOVE FINISHED FLOOR

ALTERNATING CURRENT

COMMUNITY ANTENNA TELEVISION

- ELECTRICAL CONTRACTOR
- ELECTRICAL METALLIC TUBING
- GROUNDING (BONDING) CONDUCTOR GENERAL CONTRACTOR
- GROUND FAULT CIRCUIT INTERRUPTER
- THOUSAND CIRCULAR MILLS
- MECHANICAL CONTRACTOR MAIN CIRCUIT BREAKER
- NATIONAL ELECTRICAL CODE (NFPA 70) NATIONAL FIRE PROTECTION ASSOCIATION
- POLYVINYL CHLORIDE CONDUIT
- UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE VOLT (ALTERNATING CURRENT)

### APARTMENT LIGHT FIXTURE SCHEDULE

AFA		IGHT FIXTURE SCHEDUL			1				
MARK	MANUFACTURER	MODEL NUMBER	#	LAMP DATA	BALLAST/LED DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
Α	KICHLER	45650NBR	5	4W LED E12	STANDARD	WALL AT 88" AFF TO CENTER	NATURAL BRASS	32" 5 LIGHT LINEAR VANITY LIGHT	
В	SEAGULL	4423003EN3-710	3	9.5W LED	STANDARD	WALL AT 7'-0" AFF TO CENTER	BURNT SIENNA	3 LAMP VANITY LIGHT	
С	JESCO	DL-AC-FLEX2-NPX-FR-3090		6W/FT LED 312 LUMENS/FT	STANDARD	COVE	WHITE	LINEAR LINE VOLTAGE LED STRIP LIGHT, LENGTH AS NOTED ON DRAWINGS	
D	SHADES OF LIGHT	CH23110 AB	6	5W LED E12	STANDARD	PENDANT	AGED BRASS	6 LIGHT CHANDELIER	
Ε	DUAL-LITE	EV2I	2	1 W LED	N/A	WALL AT 7'-6" AFF	WHITE	TWIN HEAD EMERGENCY LIGHT	3
F	ELEGANT LIGHTING	LD5027	4	4W LED E12	STANDARD	PENDANT	ANTIQUE BRONZE	4 LIGHT CLEAR CRYSTAL PENDANT	-
G	WAC LIGHTING	F-060-MB		N/A	N/A	SURFACE	MATTE BLACK	52"Ø, 3-BLADE CEILING FAN	-
н	METALUX	4WNLED-LD4-40SL-F-UNV-L835-CD1		30W LED 4,000 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	4' UTILITY WRAPAROUND WITH FROSTED ACRYLIC PRISMATIC LENS	-
J	HALO	SMD6R-12-930-WH		15W LED 1,200 LUMENS	PHASE DIMMING	SURFACE	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	4
JI	HALO	SMD6R-12-930-WH-E		15W LED 1,200 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	
К	METALUX	4SNLED-LD5-50SL-LW-UNV-L835-CD1		46W LED 5,251 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	4' LED STRIP WITH FROSTED LENS, WIDE DISTRIBUTION	
L	METALUX	2SNLED-LD5-23SL-LW-UNV-L835-CD1		21W LED 2,453 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	2' LED STRIP WITH FROSTED LENS, WIDE DISTRIBUTION	
М	VISUAL COMFORT & CO	EW1151BBS	1	8W LED A19	INTEGRAL TO LAMP	WALL AT 78" AFF	BURNISHED BRASS	DECORATIVE WALL SCONCE	
N	VISUAL COMFORT & CO	7000WWND-B-LED		20W LED 184 LUMENS	STANDARD	WALL AT 78" AFF	BLACK	EXTERIOR WALL SCONCE	4
Р	METALUX	4APVTLD-SL3C3		32W LED 4600 LUMENS	STANDARD	SURFACE	WHITE	4' FULLY ENCLOSED AND GASKETED INDUSTRIAL VAPORTITE WITH IMPACT RESISTANT DIFFUSE POLYCARBONATE LENS	4
Q1	GARDCO	GBS-A02-830-T2M GF-WS-BK		17W LED 1,467 LUMEN	STANDARD	WALL AT 9'-6" AFF	BLACK	IES TYPE 2 EXTERIOR WALL SCONCE, SURFACE MOUNT BOX	4
Q2	GARDCO	GBS-B02-830-PEN GF-WS-BK		18W LED 1,467 LUMEN	STANDARD	WALL AT 4'-0" AFF	BLACK	PENCIL BEAM EXTERIOR WALL SCONCE AIMED UPWARD, SURFACE MOUNT BOX	4
R	GARDCO	PWS-48L-300-WW-G2-3-120-BK PWS-WS-G2		47W LED 5,667 LUMENS	STANDARD	WALL AT 10'-0" AFF	BLACK	DIE-CAST ALUMINUM WALL PACK, IES TYPE III DISTRIBUTION, SURFACE MOUNT BOX	4
5	GARDCO	ECF-S-32L-1A-NW-G2-AR-2-UNV-BL-IMRI7-HIS-BZ		106W LED 13,685 LUMENS	0-10V DIMMING	20' RSS POLE	BRONZE	DIE CAST ALUMINUM AREA LIGHT, IES TYPE II DISTRIBUTION, HOUSE SIDE SHIELD	4, 5, 6
Т	GARDCO	FLDS-A01-740-7x6-YOK-UNV-BZ		29 W LED 3,400 LUMENS	STANDARD	YOKE	BRONZE	DIE CAST ALUMINUM FLOOD LIGHT, NEMA 7x6 WIDE FLOOD DISTRIBUTION	4
X	MULE	MXBRU-SD		RED LED LETTERS	N/A	WALL/CEILING/END	WHITE	UNIVERSAL SINGLE/DOUBLE FACE THERMOPLASTIC EXIT SIGN WITH BREAK-OUT CHEVRONS AND INTEGRAL BATTERY BACKUP	1, 2
XE	MULE	SQC-LED-U-R-WW-SD	 (2)	RED LED LETTERS 1W LED HEADS	N/A	WALL/CEILING	WHITE	UNIVERSAL SINGLE/DOUBLE FACE COMBO EXIT SIGN/TWIN HEAD EMERGENCY LIGHT WITH CHEVRONS AND BATTERY BACKUP	1, 2
XER	MULE	SQC-LED-U-R-WW-SD/REM R-ASRLED-1-WP-BL	 (2) (1)	RED LED LETTERS 1W LED HEADS 1W REMOTE HEAD	N/A	WALL/CEILING	WHITE	UNIVERSAL SINGLE/DOUBLE FACE COMBO EXIT SIGN/TWIN HEAD EMERGENCY LIGHT WITH CHEVRONS AND REMOTE BATTERY CAPACITY FOR EXTERIOR REMOTE HEAD	1, 2, 7

GENERAL:

- All LED fixtures shall be provided with drivers capable of operating at 120V.
- All exterior fixtures shall be 4000°K color temperature.
- All interior fixtures shall be 3000°K color temperature.
- All apartment light fixtures and ceiling fans shall be Energy Star rated.
- NOTES:
- 1. Fixture shall have self-diagnostic/self-testing electronics.
- 2. Provide with emergency battery integral charger.
- 3. Provide with test switch, status indicator and rechargeable nickel-cadmium battery for 90 minutes of emergency power.
- 4. Fixture shall be U.L. listed for wet locations.
- 5. Provide luminaire with integral PIR motion sensor to dim fixture to 50% output when motion has not been detected for 15 minutes or more.
- 6. Provide with 20' square straight steel pole with vibration isolation damper, bronze to match fixture. Assembly shall be rated for 110 mph wind loads. 7. Provide direct current power wiring from combo unit to exterior remote head. Wiring shall be 2#10 in 1/2"C.
  - 120 V-ac 'H1-48' MOTORIZED DAMPER ACTUATOR FOR INTAKE HOOD ON ROOF -**I**-s( R )∞-I L _ _ J c----> - POWER RELAY WITH 120 V-ac COIL #1 AND 240 V-ac, 5 AMP RATED SPST · _ _ _ _ _ _ CONTACTS, NEMA 1 ENCLOSURE ----- INTERCEPT LINE CONDUCTOR -----> UPSTREAM OF DRYER AND ROUTE THROUGH CURRENT SWITCH (TYP) #2 - CURRENT SWITCH AT DRYER POWER _ _ _ _ CONNECTION, SOLID CORE WITH ADJUSTABLE SET POINT AND OUTPUT CONTACTS RATED FOR 0.35 AMPS AT <----> 135 V-ac. MAMAC SYSTEMS #CT-810 208 V-ac DRYER OR EQUAL (TYP) #3 C____ <u>NOTE</u>: ALL 120 V-ac CONTROL WIRING ----SHALL BE #14 THHN IN 1/2"C L ______ DRYER #4

DRYER MAKE-UP AIR CONTROL DIAGRAM 2 No Scale



LST Consulting Engineers, PA 

www.LSTengineers.com mail@LSTengineers.com January 2024

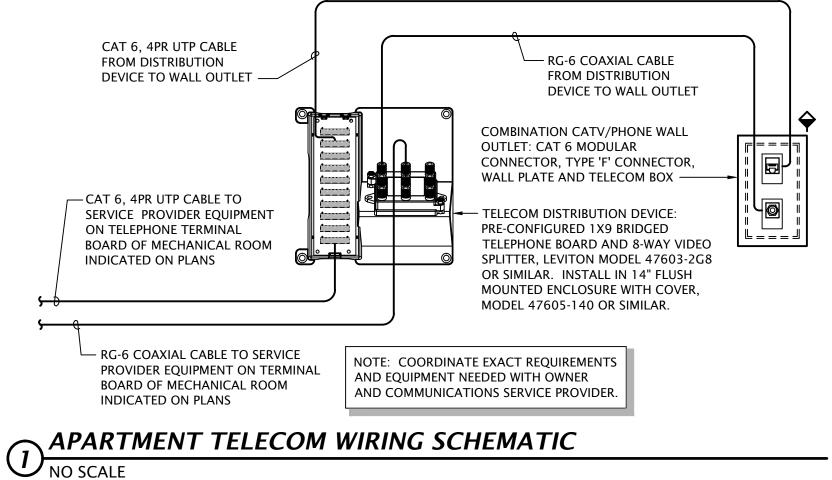
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HIS. Ш C Ζ 4 Z SA . TREDWA 95252 1-16-2024 **REVISION:** DATE: 1–16–2024 21-3166 JOB: SHEET NO .: E6.2

			1 Bedroom Apartn 208/120V-1Ph-3W	nent		Mounting: Bus Amps: MCB Amps: Other:	125 MLO
	Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Descript ion
2	1	CLOSET RCPT (TELECOM)	2#12, #12G, 1/2"C	20/1	20 / 1	2#12, #12G, 1/2"C	KITCHEN/LIVING/HALL LTS
3	3	DIS HWAS HER/DIS POS AL	2#12, #12G, 1/2"C	20/1	20 / 1	2#12, #12G, 1/2"C	CLOTHES WASHER RCPT
3	5	HOOD/MICROWAVE	2#12, #12G, 1/2"C	20/1	30 / 2	3#10, #10G, 3/4"C	CLOTHES DRYER
3	7	REFRIGERATOR	2#12, #12G, 1/2"C	20/1			
3	9	COUNTER TOP RCPTS	2#12, #12G, 1/2"C	20/1	40 / 2	3#8, #10G, 1"C	RANGE
3	11	COUNTER TOP RCPTS	2#12, #12G, 1/2"C	20/1			
2	13	LIVING ROOM RCPTS	2#12, #12G, 1/2"C	20/1	25 / 2	2#10, #10G, 3/4"C	HEAT PUMP 'HP'
	15	BATHROOM	2#12, #12G, 1/2"C	20/1			
2	17	BEDROOM	2#12, #12G, 1/2"C	20/1	45 / 2	2#6,#10G,3/4"C	BLOWER COIL 'BC'
	19	SPACE ONLY					
	21	SPACE ONLY			30 / 2	2#10,#10G,3/4"C	WATER HEATER 'HWH'
	23	SPACE ONLY					

		Panal Dacianation	2BR APT #			Mounting	Fluch	
		Panel Designation:				Mounting:		
			2 Bedroom Apartn			Bus Amps:		
		5	208/120V-1Ph-3W			MCB Amps:		
		Enclosure:	NEMA 1			Other.	10 KAIC	
							Panel is typical for 2BR	units
	Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit
2	1	CLOSET RCPT (TELECOM)	2#12, #12G, 1/2"C	20/1	20/1	2#12, #12G, 1/2"C	KITCHEN/LIVING/HALL LTS	2
3	3	DIS HWAS HER/DIS POS AL	2#12, #12G, 1/2"C	20/1	20/1	2#12, #12G, 1/2"C	CLOTHES WASHER RCPT	4
3	5	HOOD/MICROWAVE	2#12, #12G, 1/2"C	20/1	30/2	3#10, #10G, 3/4"C	CLOTHES DRYER	6
3	7	REFRIGERATOR	2#12, #12G, 1/2"C	20/1				8
3	9	COUNTER TOP RCPTS	2#12, #12G, 1/2"C	20/1	40 / 2	3#8, #10G, 1"C	RANGE	10
3	11	COUNTER TOP RCPTS	2#12, #12G, 1/2"C	20/1				12
2	13	LIVING ROOM RCPTS	2#12, #12G, 1/2"C	20/1	25 / 2	2#10, #10G, 3/4"C	HEAT PUMP 'HP'	14
	15	BATHROOM	2#12, #12G, 1/2"C	20/1				16
2	17	BEDROOM	2#12, #12G, 1/2"C	20/1	45 / 2	2#6,#10G,3/4"C	BLOWER COIL 'BC'	18
2	19	BEDROOM	2#12, #12G, 1/2"C	20/1				20
	21	SPACE ONLY			30 / 2	2#10,#10G, 3/4"C	WATER HEATER 'HWH'	22
	23	SPACE ONLY						24

De	esignation: MDP Location: M/E 119 Voltage: 208Y/120V-3Ph-4W	Enclosure: NEMA 1 Mounting: Wall Manufacturer: Square D 'I-LINE'	Bus Amps: MCB Amps: AIC Rating:	MLO
Circuit #	Equipment Served	Feeder Size	C/B Size	Remarks
1	PANEL 'H0'	SEE RISER DIAGRAM 2/E6.1	150/3	
2	PANEL 'H1'	SEE RISER DIAGRAM 2/E6.1	225/3	
3	PANEL 'H2'	SEE RISER DIAGRAM 2/E6.1	100/3	
4	PANEL 'H3'	SEE RISER DIAGRAM 2/E6.1	125/3	
5	BUSSED SPACE		225A	PROVISIONAL SPACE
6	BUSSED SPACE		225A	PROVISIONAL SPACE
7	BUSSED SPACE		225A	PROVISIONAL SPACE

units         Circuit #         S       2         4       3         6       1         10       1         12       1         14       16         18       20         22       24			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	. เ	units	
4 3 6 1 8 10 1 12 14 16 18 20 22		Circuit #	
6 1 10 12 14 16 18 20 22	S	2	2
1       10       12       14       16       18       20       22		4	3
8       10       12       14       16       18       20       22		6	
12       14       16       18       20       22		8	Ľ
12       14       16       18       20       22		10	
16 18 20 22		12	Ľ
18       20       22		14	
20 22		16	
22		18	
		20	
24		22	
		24	

Circuit #

8

12

14

16

18

20

22

24

	Designation: Location: Voltage: Enclosure: Mounting:	208Y/120V-3Ph-4W NEMA 1			Manufacturer: Bus Amps: MCB Amps: AIC Rating: Other:	100 MLO	
Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Descript ion	Circuit #
1	LTG: HALL/STAIR	2#12, #12G, 1/2"C	20/1	60 / 2	2#4, #10G, 3/4"C	'BC-4' (CIRCUIT #1)	2
3	LTG: EXTERIOR UPLIGHTS	2#12, #12G, 1/2"C	20/1				4
5	LTG: PATIO LIGHTS	2#12, #12G, 1/2"C	20/1	45 / 2	2#6, #10G, 3/4"C	'BC-4' (CIRCUIT #2)	6
7	RCPT: HALL W	2#12, #12G, 1/2"C	20/1				8
9	RCPT: HALL E	2#12, #12G, 1/2"C	20/1	20 / 1		SPARE BREAKER	10
11	RCPT: PATIO	2#12, #12G, 1/2"C	20/1	20 / 1		SPARE BREAKER	12
13	SPACE ONLY					SPACE ONLY	14
15	SPACE ONLY					SPACE ONLY	16
17	SPACE ONLY					SPACE ONLY	18
19	SPACE ONLY					SPACE ONLY	20
21	SPACE ONLY					SPACE ONLY	22
23	SPACE ONLY					SPACE ONLY	24
25	SPACE ONLY					SPACE ONLY	26
27	SPACE ONLY					SPACE ONLY	28
29	SPACE ONLY					SPACE ONLY	30

				Manufacturer: Square D 'NQ' Bus Amps: 225 MCB Amps: MLO AIC Rating: 10 kAIC Other:				
Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #	
1				20 / 1	2#12, #12G, 1/2"C	BASEMENT LIGHTS	2	
3	'HWH-B' (NORTH)	3#6, #10G, 3/4"C	60/3	20 / 1	2#12, #12G, 1/2"C	BASEMENT HEATER 'EWH-4'	4	
5				20 / 1	2#12, #12G, 1/2"C	HW RECIRC PUMP 'HWP'	6	
7				20 / 1	2#12, #12G, 1/2"C	BASEMENT RCPTS	8	
9	'HWH-B' (MID)	3#6, #10G, 3/4"C	60/3	20 / 1	2#12, #12G, 1/2"C	FIRE SPRINKLER FLOW/BELL	10	
11				20 / 1	2#12, #12G, 1/2"C	SEWAGE EJECTOR CONTROL	12	
13				20 / 1	2#12, #12G, 1/2"C	SEWAGE EJECTOR PUMP	14	
15	'HWH-B' (SOUTH)	3#6, #10G, 3/4"C	60/3			SPACE ONLY	16	
17						SPACE ONLY	18	
19	SPACE ONLY					SPACE ONLY	20	
21	SPACE ONLY					SPACE ONLY	22	
23	SPACE ONLY					SPACE ONLY	24	
25	SPACE ONLY					SPACE ONLY	26	
27	SPACE ONLY					SPACE ONLY	28	
29	SPACE ONLY					SPACE ONLY	30	

	Designation: Location: Voltage: Enclosure: Mounting:	208Y/120V-3Ph-4W NEMA 1			Manufacturer: Bus Amps: MCB Amps: AIC Rating: Other:	225 MLO 10 KAIC	
Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Descript ion	Circuit #
1	LTG: HALL/STAIR	2#12, #12G, 1/2"C	20 / 1	20/2	2#12, #12G, 1/2"C	HEAT PUMP 'HP-1.5'	2
3	ROOFTOP SIGN LIGHTS	2#12, #12G, 1/2"C	20 / 1				4
5	RCPT: ROOF	2#10, #10G, 1/2"C	20 / 1	40 / 2	2#8, #10G, 3/4"C	HEAT PUMP 'HP-4'	6
7							8
9	ELEVATOR	3#4, #8G, 1"C	70/3	40 / 2	2#8, #10G, 3/4"C	OUTDOOR A/C UNIT 'OU-1'	10
11							12
13	ELEVATOR CAB LTS/EXH.	2#12, #12G, 1/2"C	20 / 1	15/2	2#12, #12G, 1/2"C	OUTDOOR A/C UNIT 'OU-2'	14
15	ELEV. HOISTWAY RCPT	2#12, #12G, 1/2"C	20 / 1				16
17	ELEV. HOISTWAY LIGHT	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	ROOF SIGN LIGHTING	18
19	RCPT: TELECOM BD	2#12, #12G, 1/2"C	20 / 1	20 / 1		SPARE BREAKER	20
21	RCPT: HALL W	2#12, #12G, 1/2"C	20 / 1	20/1		SPARE BREAKER	22
23	RCPT: HALL E	2#12, #12G, 1/2"C	20 / 1	20/1		SPARE BREAKER	24
25	SPACE ONLY					SPACE ONLY	26
27	SPACE ONLY					SPACE ONLY	28
29	SPACE ONLY					SPACE ONLY	30

## PANEL SCHEDULE NOTES BY SYMBOL

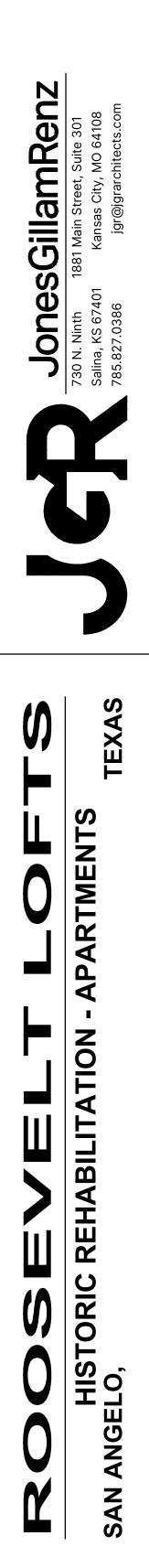
- 1. CLASS 'A', 5mA RATED, GROUND FAULT CIRCUIT INTERRUPTING (GFCI) TYPE BREAKER.
- 2. ARC FAULT CIRCUIT INTERRUPTING (AFCI) TYPE BREAKER.
- 3. COMBINATION AFCI/GFCI BREAKER.

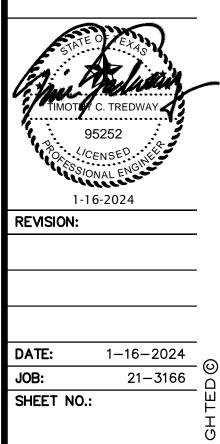
	Designation: Location: Voltage: Enclosure: Mounting:	208Y/120V-3Ph-4W NEMA 1			Manufacturer: Bus Amps: MCB Amps: AIC Rating: Other:	: 225 : MLO : 25 kAIC	
Circuit #	Load Descript ion	Conductors	C/B Size	C/B Size	Conductors	Load Descript ion	Circuit #
1	LTG: OFFICE/RESTRMS	2#12, #12G, 1/2"C	20 / 1	15/2	2#12, #12G, 1/2"C	OUTDOOR A/C UNIT 'OU-3'	2
3	LTG: HALL/LAUNDRY	2#12, #12G, 1/2"C	20 / 1				4
5	LTG: COMMUNITY RM/HALL	2#12, #12G, 1/2"C	20 / 1	25 / 2	2#10, #10G, 1/2"C	HEAT PUMP 'HP-2.5'	6
7	EXTERIOR WALL LTS	2#12, #12G, 1/2"C	20 / 1				8
9	PARKING LOT POLE LTS	2#10, #10G, 3/4"C	20 / 1	50 / 2	2#6, #10G, 3/4"C	'BC-2.5b' (CIRCUIT #1)	10
11	EXTERIOR LTG CONTROLS	2#12, #12G, 1/2"C	20 / 1				12
13	CLOTHES DRYER	3#10, #10G, 3/4"C	30 / 2	25 / 2	2#10, #10G, 1/2"C	'BC-2.5b' (CIRCUIT #2)	14
15							16
17	CLOTHES DRYER	3#10, #10G, 3/4"C	30 / 2	40 / 2	2#8, #10G, 3/4"C	'BC-1.5'	18
19							20
21	CLOTHES DRYER	3#10, #10G, 3/4"C	30 / 2	20 / 1	2#12, #12G, 1/2"C	WALL HEATER 'EWH-1'	22
23				20 / 1	2#12, #12G, 1/2"C	WALL HEATER 'EWH-2'	24
25	CLOTHES DRYER	3#10, #10G, 3/4"C	30 / 2	20 / 1	2#12, #12G, 1/2"C	WALL HEATER 'EWH-3'	26
27				20 / 1	2#12, #12G, 1/2"C	DRINKING FOUNTAIN	28
29	WASHER	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	RCPT: TELECOM BOARD	30
31	WASHER	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	RCPT: PANTRY MICROWAVE	32
33	WASHER	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	RCPT: HALL W	34
35	WASHER	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	RCPT: COMMUNITY RM	36
37	EV CHARGING STATION	2#8, #10G, 3/4"C	40 / 2	20 / 1	2#12, #12G, 1/2"C	RCPT: LAUNDRY/JAN	38
39				20 / 1	2#12, #12G, 1/2"C	RCPT: HALL E	40
41	EV CHARGING MAINT. RCPT	2#10, #10G, 3/4"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	FIRE ALARM CONTROL PNL	42
43	ELEVATOR PIT RCPT	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	RCPT: OFFICE UNS WITCHED	44
45	ELEVATOR PIT LIGHT	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	RCPT: OFFICE SWITCHED	46
47	ELEVATOR SUMP PUMP ALARM PANEL	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	DRYER MAKE-UP AIR CNTL	48
49	ELEVATOR SUMP PUMP RCPT	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	RCPT: ROOFTOP	50
51	SPARE BREAKER		20 / 1	20 / 1		SPARE BREAKER	52
53	SPARE BREAKER		20 / 1	20 / 1		SPARE BREAKER	54
55	SPACE ONLY					SPACE ONLY	56
57	SPACE ONLY					SPACE ONLY	58
59	SPACE ONLY					SPACE ONLY	60



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