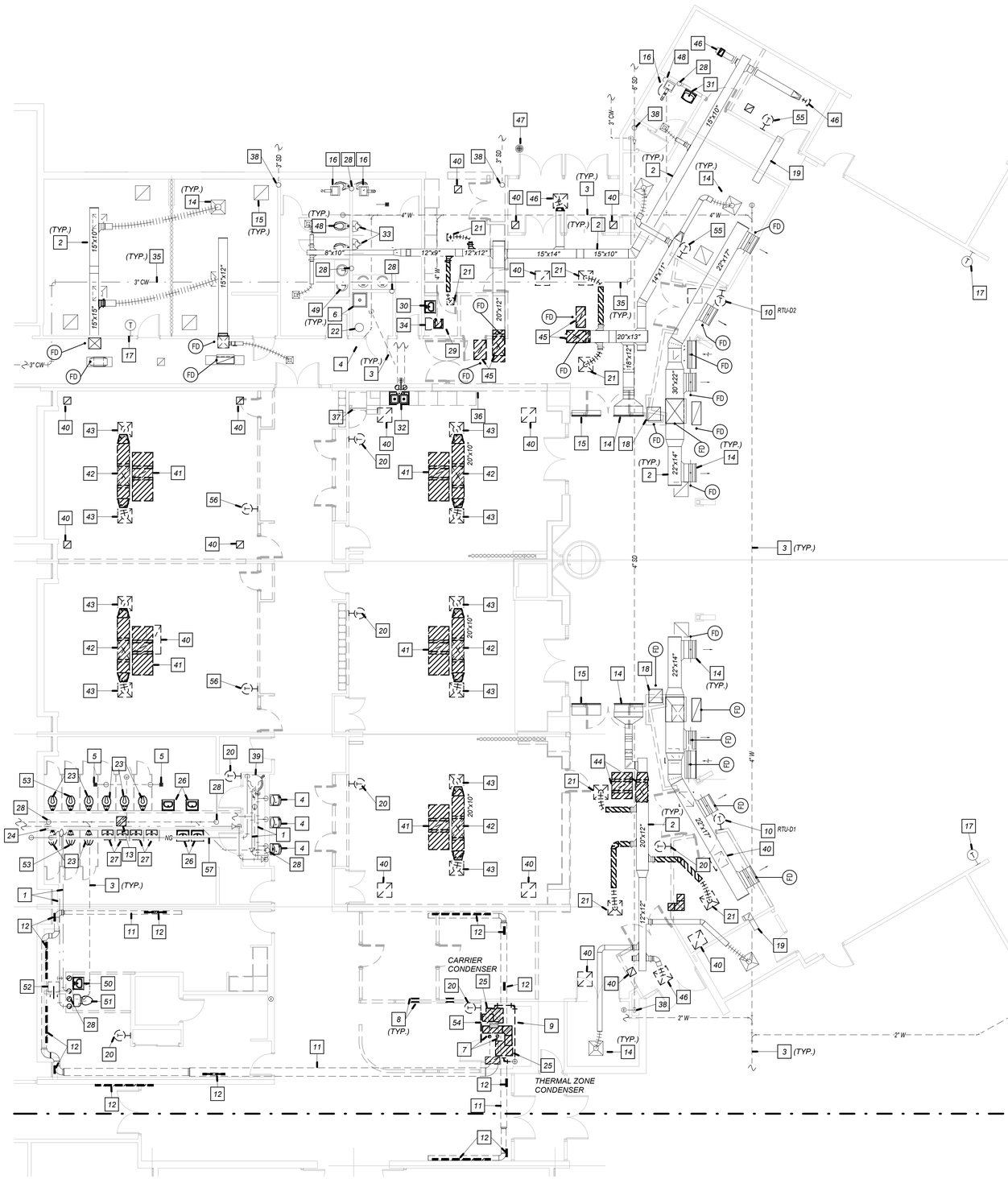


1 **MECH & PLUM DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *EXISTING DOMESTIC WATER PIPING TO REMAIN.*

2 *APPROXIMATE LOCATION OF EXISTING SUPPLY AIR DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION.*

3 *APPROXIMATE LOCATION OF THE EXISTING BELOW SLAB SANITARY SEWER PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING DRINKING FOUNTAIN TO REMAIN.*

5 *EXISTING FLOOR DRAIN TO REMAIN. REPLACE WITH NEW GRATE.*

6 *EXISTING SINK AND ALL ASSOCIATED PIPING TO REMAIN.*

7 *APPROXIMATE LOCATION OF EXISTING FURNACE FLUE UP THROUGH ROOF TO BE REMOVED. FIELD VERIFY EXACT LOCATION.*

8 *REMOVE EXISTING TRANSFER GRILLE.*

9 *REMOVE EXISTING GAS PIPING AS INDICATED BACK TO MAIN AND CAP. FIELD VERIFY EXACT LOCATION.*

10 *REPLACE EXISTING THERMOSTAT WITH NEW WIRELESS TYPE. REMOVE ALL ASSOCIATED WIRING. PATCH AND REPAIR WALL AS INSTRUCTED BY ARCHITECT UNLESS NOTED OTHERWISE.*

11 *EXISTING UNDERSLAB SUPPLY AIR DUCTWORK TO BE ABANDONED IN PLACE.*

12 *REMOVE EXISTING FLOOR GRILLE. ASSOCIATED DUCTWORK TO BE ABANDONED IN PLACE. PATCH AND REPAIR FLOOR AS INSTRUCTED BY ARCHITECT.*

13 *REMOVE EXISTING 16x16 EXHAUST AIR DUCT OPEN TO PLUMBING CHASE FROM DEMOLISHED ROOF MOUNTED EXHAUST FAN. MAINTAIN ROOF OPENING FOR NEW DUCTWORK AND NEW FAN. RE: NEW WORK.*

14 *EXISTING SUPPLY AIR DIFFUSER/GRILLE AND ALL ASSOCIATED DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION.*

15 *EXISTING RETURN AIR GRILLE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

16 *EXISTING CEILING MOUNTED EXHAUST FAN AND ASSOCIATED DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION.*

17 *EXISTING THERMOSTAT AND ALL ASSOCIATED WIRING TO REMAIN.*

18 *EXISTING OPENING IN LID WITH FIRE DAMPER TO REMAIN.*

19 *EXISTING RETURN AIR TRANSFER THROUGH WALL ABOVE CEILING TO REMAIN.*

20 *REMOVE EXISTING THERMOSTAT AND ALL ASSOCIATED WIRING. PATCH AND REPAIR WALL AS INSTRUCTED BY ARCHITECT UNLESS NOTED OTHERWISE.*

21 *REMOVE EXISTING DIFFUSER/GRILLE AND ALL ASSOCIATED DUCTWORK BACK TO MAIN. CAP AND SEAL TAKE-OFF AIRTIGHT.*

FLOOR PLAN NOTES

22 *EXISTING ELECTRIC WATER HEATER TO REMAIN.*

23 *REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND REPLACE WITH NEW WALL HUNG TYPE. RE: NEW WORK. MAINTAIN WATER PIPING FOR CONNECTION TO NEW WATER CLOSET. MODIFY AS NEEDED FOR NEW CONNECTION. REMOVE ASSOCIATED VENT AND WASTE PIPE. CAP WASTE BELOW FLOOR. PATCH FLOOR AS INSTRUCTED BY ARCHITECT.*

24 *APPROXIMATE LOCATION OF EXISTING 2-1/2" COLD WATER PIPE UP THROUGH FLOOR THAT RUNS HORIZONTALLY WITHIN CHASE. FIELD VERIFY EXACT LOCATION. REMOVE/MODIFY MAIN AND ASSOCIATED CONNECTIONS TO FIXTURES AS NECESSARY FOR CONNECTION TO NEW PLUMBING FIXTURE LAYOUT. CAP ANY UNUSED TAPS. RE: PLUMBNG PLAN.*

25 *REMOVE EXISTING FURNACE. REMOVE ASSOCIATED GAS PIPING BACK TO MAIN AND CAP. REMOVE EXISTING FLUE AND REFRIGERANT PIPING UP THROUGH ROOF. FIELD VERIFY EXACT LOCATION. REMOVE ALL SUPPLY AND RETURN DUCTWORK. THE SUPPLY AIR DUCTWORK BELOW FLOOR TO BE ABANDONED IN PLACE. PROVIDE 1/4" STEEL PLATE OVER OPENING AND SECURE TO FLOOR.*

26 *REMOVE EXISTING LAVATORY AND ALL ASSOCIATED WASTE AND VENT PIPING. REMOVE EXISTING CARRIER, HANGERS, BRACKETS, ETC. REMOVE EXISTING HOT AND COLD WATER PIPES BACK TO WITHIN CHASE AND MAINTAIN FOR NEW CONNECTION TO NEW LAVATORY. FIELD VERIFY EXACT LOCATION. RE: PLUMBING PLAN FOR NEW CONNECTIONS.*

27 *REMOVE EXISTING URINAL AND HANGER. REMOVE WASTE AND VENT PIPING AS NECESSARY. MAINTAIN COLD WATER PIPING FOR CONNECTION TO NEW URINAL LAYOUT. RE: PLUMBING PLAN. EXISTING WASTE PIPE CAN BE USED FOR CONNECTION TO NEW URINAL WHERE POSSIBLE.*

28 *EXISTING VENT PIPE UP THROUGH ROOF TO REMAIN. FIELD VERIFY EXACT LOCATION.*

29 *REMOVE EXISTING CEILING EXHAUST FAN AND ALL ASSOCIATED DUCT. FIELD VERIFY EXACT LOCATION.*

30 *REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING TO WITHIN WALL, BELOW FLOOR AND/OR ABOVE CEILING AND CAP. FIELD VERIFY EXACT LOCATION.*

31 *RELOCATE EXISTING LAVATORY. DISCONNECT AND REMOVE EXISTING VENT AND WATER PIPING TO ABOVE CEILING. REMOVE WASTE PIPE AND CAP. MAINTAIN VENT AND WATER PIPING FOR EXTENSION TO NEW LAVATORY LOCATION. RE: NEW WORK.*

32 *RELOCATE EXISTING SINK AND FAUCET. REMOVE ASSOCIATED WASTE AND VENT PIPING TO ABOVE CEILING AND/OR BELOW FLOOR AND CAP. REMOVE HOT AND COLD PIPING AND CAP. REMOVE P-TRAP FOR ICE MAKER. REMOVE WATER PIPES TO ICE MAKER AND COFFEE MAKER.*

33 *EXISTING URINAL TO REMAIN.*

34 *REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING TO WITHIN WALL, BELOW FLOOR AND/OR ABOVE CEILING AND CAP. FIELD VERIFY EXACT LOCATION.*

35 *APPROXIMATE LOCATION OF EXISTING MAIN COLD WATER PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

36 *REMOVE EXISTING WATER LINE TO COFFEE MAKER.*

37 *REMOVE EXISTING WATER AND DRAIN PIPE FOR ICE MAKER.*

38 *EXISTING ROOF DRAIN PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

39 *EXISTING GAS WATER HEATER AND ALL ASSOCIATED PIPING, VENT, ETC. TO REMAIN.*

40 *REMOVE EXISTING RETURN AIR GRILLE.*

41 *REMOVE EXISTING RETURN AIR DUCT DROP BACK TO DEMOLISHED ROOFTOP UNIT.*

42 *REMOVE EXISTING SUPPLY DUCT AND DROP BACK TO DEMOLISHED ROOFTOP UNIT.*

43 *REMOVE EXISTING SUPPLY DIFFUSER AND ALL ASSOCIATED DUCTWORK.*

44 *REMOVE EXISTING SUPPLY AND RETURN AIR DUCT DROPS FROM DEMOLISHED UNIT. MAINTAIN DOWNSTREAM SUPPLY AIR MAIN DUCT FOR CONNECTION TO NEW DUCT DROP. RE: NEW WORK.*

45 *REMOVE EXISTING SUPPLY AND RETURN AIR DUCT DROPS FROM DEMOLISHED UNIT. REMOVE EXISTING FIRE DAMPERS IN RATED LID. MAINTAIN DOWNSTREAM SUPPLY AIR MAIN DUCT FOR CONNECTION TO NEW DUCT DROP. RE: NEW WORK.*

46 *REMOVE EXISTING SUPPLY DIFFUSER AND ASSOCIATED BRANCH DUCT BACK TO MAIN. MAINTAIN TAKE-OFF FOR NEW CONNECTION. RE: NEW WORK.*

47 *EXISTING ROOF DRAIN IN ENTRY CANOPY ROOF.*

48 *EXISTING WATER CLOSET TO REMAIN.*

49 *EXISTING LAVATORY TO REMAIN.*

50 *REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING TO ABOVE FLOOR AND/OR ABOVE CEILING AND CAP.*

51 *REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING TO ABOVE FLOOR AND/OR ABOVE CEILING AND CAP.*

52 *REMOVE EXISTING SINK AND ALL ASSOCIATED PIPING TO ABOVE FLOOR AND/OR ABOVE CEILING AND CAP.*

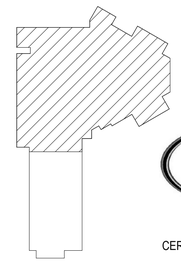
53 *REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND ALL ASSOCIATED PIPING. CAP PIPING BELOW FLOOR AND WITHIN CHASE AS NECESSARY. PATCH FLOOR AS INSTRUCTED BY ARCHITECT.*

54 *EXISTING RETURN AIR GRILLE AND ANY ASSOCIATED DUCTWORK TO BE REMOVED. FIELD VERIFY EXACT LOCATION. PATCH WALL PER ARCHITECT.*

55 *REMOVE EXISTING THERMOSTAT AND REPLACE. REMOVE AND REPLACE ALL ASSOCIATED WIRING AS NECESSARY. RE: NEW WORK.*

56 *REMOVE EXISTING THERMOSTAT AND ALL ASSOCIATED WIRING.*

57 *EXISTING GAS PIPE TO WATER HEATER TO REMAIN.*



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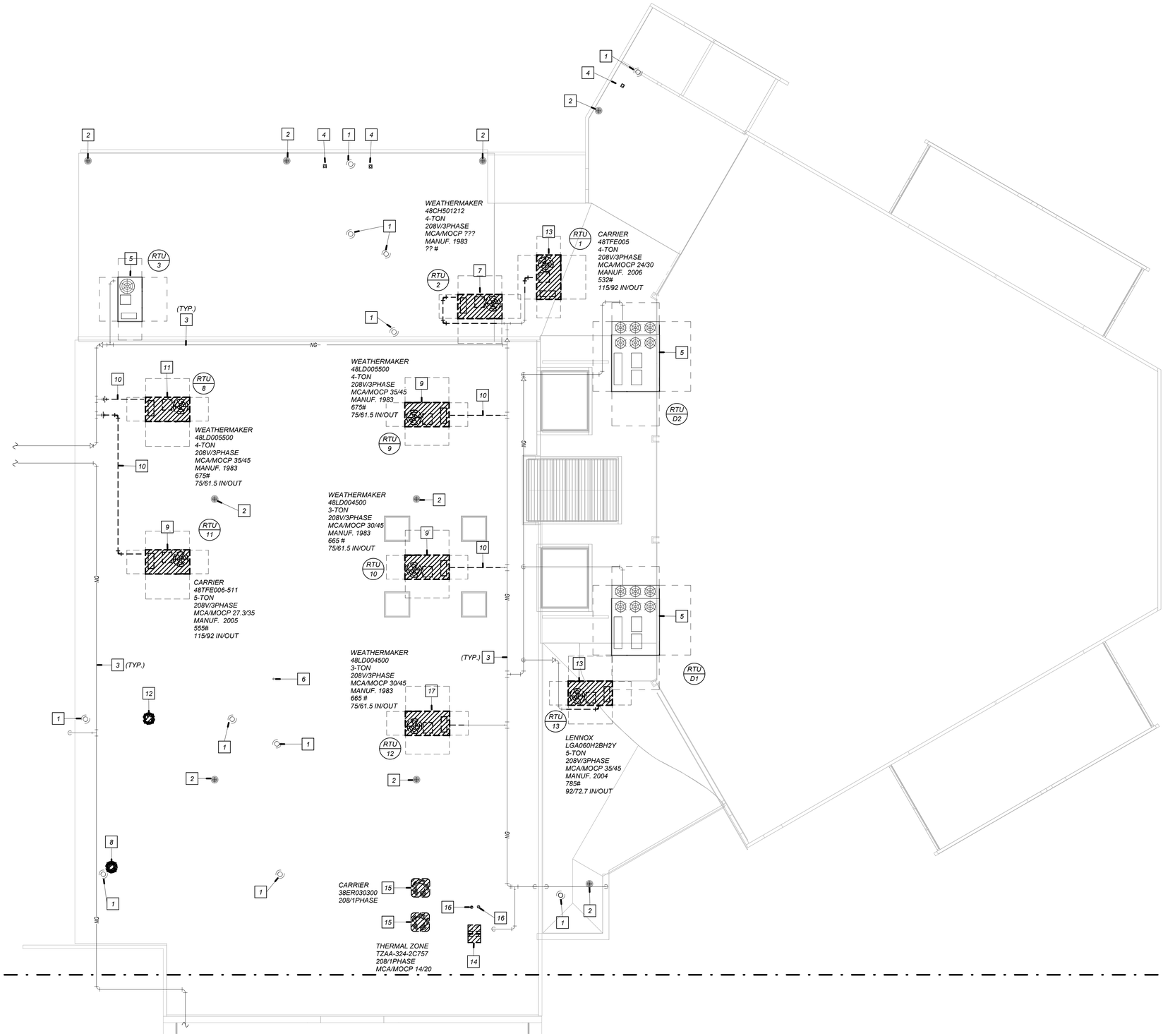

NORTH

1 ROOF PLAN DEMOLITION

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *EXISTING PLUMBING VENT THROUGH ROOF TO REMAIN.*

2 *EXISTING ROOF DRAIN TO REMAIN. FIELD VERIFY EXACT LOCATION.*

3 *EXISTING GAS PIPE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING RESTROOM EXHAUST FAN VENT THROUGH ROOF TO REMAIN. FIELD VERIFY EXACT LOCATION.*

5 *EXISTING ROOFTOP UNIT AND ALL ASSOCIATED PIPING, DUCTWORK, ETC. TO REMAIN. FIELD VERIFY EXACT LOCATION.*

6 *EXISTING WATER HEATER FLUE THROUGH ROOF TO REMAIN. FIELD VERIFY EXACT LOCATION.*

7 *REMOVE EXISTING ROOFTOP UNIT AND REPLACE WITH NEW UNIT. FIELD VERIFY EXACT LOCATION. REMOVE DUCT DROPS, DISCONNECT EXISTING GAS PIPE AND WIRING. MAINTAIN FOR CONNECTION TO NEW UNIT. REMOVE EXISTING ROOF CURB AND MAINTAIN EXISTING ROOF OPENING FOR INSTALLATION OF NEW UNIT AND NEW DUCT DROPS. PREP EXISTING ROOF AS NECESSARY FOR INSTALLATION OF NEW ROOF CURB. FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING ANY WORK. RE: NEW WORK.*

8 *REMOVE EXISTING ROOF MOUNTED TOILET EXHAUST FAN/VENTILATOR. FIELD VERIFY EXACT LOCATION. REMOVE EXISTING ROOF CURB. PATCH AND SEAL ROOF AS INSTRUCTED BY ARCHITECT. FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING ANY WORK.*

9 *REMOVE EXISTING ROOFTOP UNIT. REMOVE ALL ASSOCIATED GAS PIPING, ROOF CURB, DUCTWORK, CONTROLS, WIRING ETC. PATCH ROOF DECK, INSULATION AND ROOFING AS INSTRUCTED BY ARCHITECT. FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING ANY WORK.*

10 *REMOVE EXISTING GAS PIPING BACK TO MAIN AND CAP. FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING ANY WORK.*

11 *REMOVE EXISTING ROOFTOP UNIT AND REPLACE. REMOVE ALL ASSOCIATED GAS PIPING, ROOF CURB, DUCTWORK, CONTROLS, WIRING ETC. MAINTAIN EXISTING ROOF OPENING FOR INSTALLATION OF NEW UNIT AND DUCTWORK. PREP EXISTING ROOF AS NECESSARY FOR INSTALLATION OF NEW ROOF CURB. FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING ANY WORK.*

12 *REMOVE EXISTING ROOF MOUNTED FAN/VENTILATOR AND REPLACE WITH NEW FAN. FIELD VERIFY EXACT LOCATION. REMOVE EXISTING ROOF CURB. PREPARE ROOF FOR INSTALLATION OF NEW FAN AND CURB. RE: NEW WORK. MAINTAIN EXISTING ROOF OPENING FOR NEW DUCT DROP.*

13 *REMOVE EXISTING ROOFTOP UNIT AND REPLACE WITH NEW UNIT. FIELD VERIFY EXACT LOCATION. REMOVE DUCT DROPS, DISCONNECT EXISTING GAS PIPE AND WIRING. MAINTAIN FOR CONNECTION TO NEW UNIT. REMOVE EXISTING ADAPTER ROOF CURB AND PREP FOR INSTALLATION OF NEW ADAPTER CURB AS NESSARY FOR NEW UNIT. RE: NEW WORK.*

14 *REMOVE EXISTING COMBUSTION AIR DUCT GOOSENECK. FIELD VERIFY EXACT LOCATION. PATCH AND REPAIR ROOF PENETRATION AS REQUIRED.*

15 *REMOVE EXISTING CONDENSING UNIT ASSOCIATED WITH DEMOLISHED FURNACE. FIELD VERIFY EXACT LOCATION. REMOVE ALL ASSOCIATED PIPING, DISCONNECT, WIRING ETC. PATCH AND REPAIR ROOF PENETRATION AS REQUIRED.*

16 *REMOVE EXISTING FURNANCE FLUE THROUGH ROOF FROM DEMOLISHED FURNACE. FIELD VERIFY EXACT LOCATION. PATCH AND REPAIR ROOF AS REQUIRED.*

17 *REMOVE EXISTING ROOFTOP UNIT AND ALL DUCTWORK. FIELD VERIFY EXACT LOCATION. DISCONNECT EXISTING GAS PIPE AND MAINTAIN FOR EXTENSION TO NEW UNIT. REMOVE EXISTING ROOF CURB. PATCH ROOF DECK, ROOFING AND INSULATION AS INSTRUCTED BY ARCHITECT. FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING ANY WORK. DISCONNECT ALL ASSOCIATED WIRING AND REMOVE BACK TO SOURCE.*

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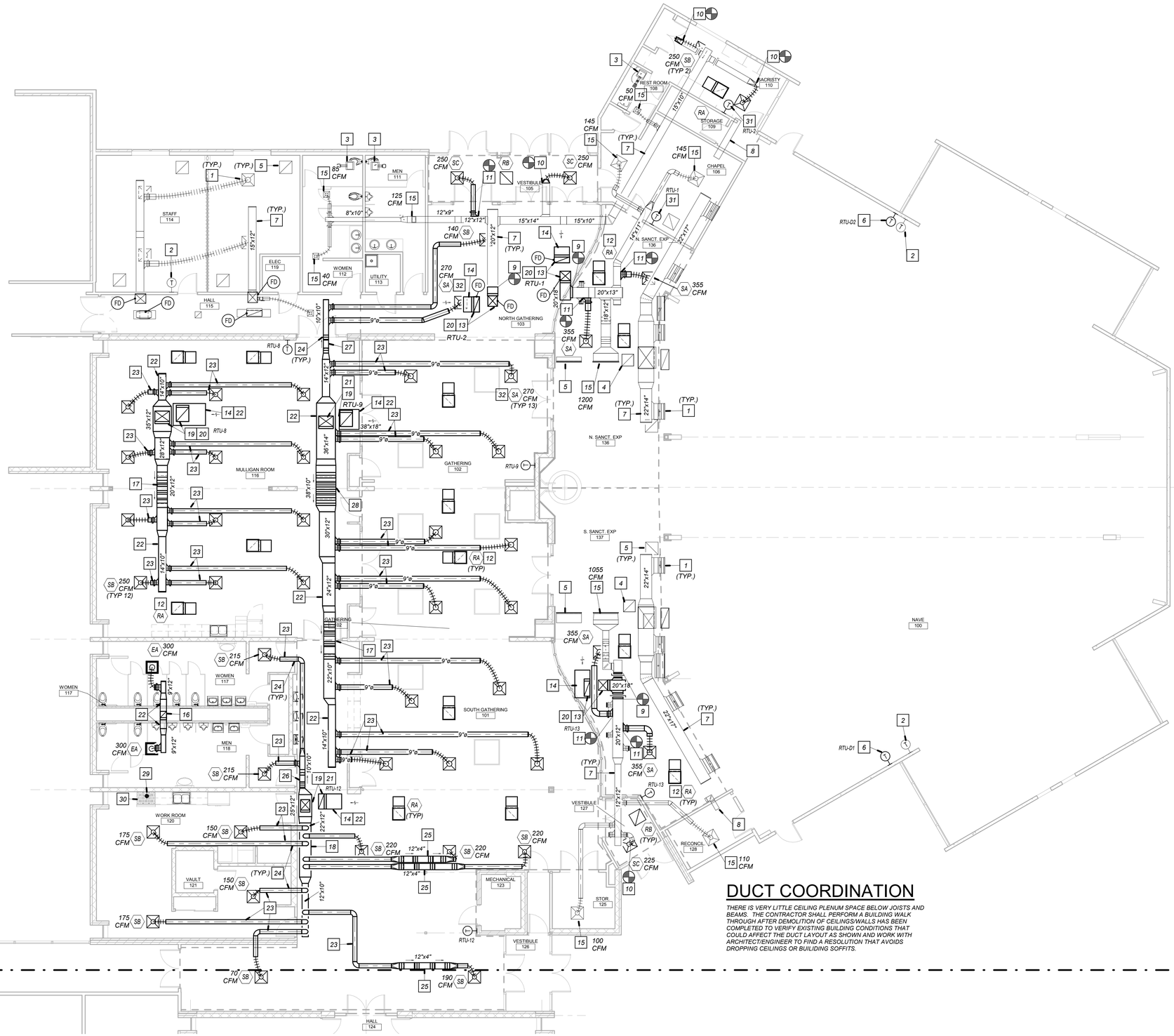

DUCT COORDINATION

THERE IS VERY LITTLE CEILING PLENUM SPACE BELOW JOISTS AND BEAMS. THE CONTRACTOR SHALL PERFORM A BUILDING WALK THROUGH AFTER DEMOLITION OF CEILINGS/WALLS HAS BEEN COMPLETED TO VERIFY EXISTING BUILDING CONDITIONS THAT COULD AFFECT THE DUCT LAYOUT AS SHOWN AND WORK WITH ARCHITECT/ENGINEER TO FIND A RESOLUTION THAT AVOIDS DROPPING CEILINGS OR BUILIDING SOFFITS.

1 MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *EXISTING SUPPLY AIR DIFFUSER/GRILLE AND ALL ASSOCIATED DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION.*

2 *EXISTING THERMOSTAT AND ALL ASSOCIATED WIRING TO REMAIN.*

3 *EXISTING CEILING MOUNTED EXHAUST FAN AND ASSOCIATED DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING OPENING IN LID WITH FIRE DAMPER TO REMAIN.*

5 *EXISTING RETURN AIR GRILLE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

6 *PROVIDE NEW PROGRAMMABLE WIRELESS THERMOSTAT TO CONTROL THE EXISTING ROOFTOP UNIT INDICATED. PROVIDE WITH INSULATED BACKPLATE.*

7 *APPROXIMATE LOCATION OF EXISTING SUPPLY AIR DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION.*

8 *EXISTING RETURN AIR TRANSFER THROUGH WALL ABOVE CEILING TO REMAIN.*

9 *CONNECT TO EXISTING DUCTWORK MADE AVAILABLE DUE DEMOLITION. FIELD VERIFY EXACT LOCATION.*

10 *CONNECT TO EXISTING TAKE-OFF MADE AVAILABLE DUE TO DEMOLITION. PROVIDE DUCT TRANSITION/MODIFICATION AS NECESSARY. FIELD VERIFY EXACT LOCATION.*

11 *PROVIDE NEW LOW VELOCITY TAKE-OFF IN EXISTING DUCTWORK. RE: DETAIL.*

12 *PROVIDE WITH LINED RETURN AIR BOOT. RE: DETAIL.*

13 *PROVIDE NEW SUPPLY AND RETURN AIR DUCT DROPS FROM NEW ROOFTOP UNIT. PROVIDE WITH FIRE DAMPERS IN RATED LID.*

14 *PROVIDE FULL SIZED 90 DEGREE RETURN AIR BOOT ON UNIT RETURN OPENING WITH DUCT LINER. COORDINATE SIZE WITH PROVIDED UNIT.*

15 *EXISTING SUPPLY AIR DIFFUSER/GRILLE AND ALL ASSOCIATED DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION. BALANCE TO CFM INDICATED.*

16 *12x12 EXHAUST DUCT UP THROUGH ROOF AND CONNECT TO FAN. TRANSITION AS REQUIRED. UTILIZE EXISTING OPENING MADE AVAILABLE DUE TO DEMOLITION. FIELD VERIFY EXACT LOCATION.*

17 *DROP DUCT DOWN TO BELOW BEAM WITHIN SOFFIT.*

18 *ROUTE DUCT BELOW EXISTING JOISTS WITHIN ARCHITECTURAL SOFFIT.*

19 *PROVIDE NEW SUPPLY AND RETURN AIR DUCT DROPS FROM NEW ROOFTOP UNIT. MATCH UNIT OPENING SIZE.*

20 *REUSE EXISTING ROOF OPENINGS MADE AVAILABLE DUE TO DEMOLITION WHERE POSSIBLE FOR NEW DUCT DROPS.*

21 *FIELD VERIFY EXACT LOCATION WITH EXISTING ROOF STRUCTURE. PROVIDE FRAMING PER STRUCTURAL ENGINEER.*

22 *ROUTE DUCT BETWEEN JOISTS. FIELD VERIFY EXACT LOCATION WITH EXISTING CONDITIONS. ROUTE THROUGH ANGLE IRON CROSS SUPPORTS. FIELD MEASURE MAXIMUM HEIGHT PRIOR TO DUCT FABRICATION.*

23 *ROUTE DUCT THROUGH 16" JOIST WEBBING. FIELD VERIFY EXACT ROUTE.*

24 *ROUTE DUCT THROUGH EXISTING MASONRY WALL. CORE DRILL OR SAWCUT AS REQUIRED.*

25 *TRANSITION DUCT TO RECTANGULAR AND SLOPE DOWN BELOW BEAM.*

26 *ROUTE DUCT UP WITHIN JOIST SPACE AFTER BEAM.*

27 *DROP BELOW BEAM.*

28 *TRANSITION DUCT DOWN TO SLOPE DOWN BELOW BEAM.*

29 *6" RANGE HOOD DUCT UP THROUGH ROOF. FIELD VERIFY EXACT LOCATION WITH ROOF STRUCTURE. CUT AND PATCH ROOF AS REQUIRED. TERMINATE WITH ROOF CAP.*

30 *MAKE 6" DUCT CONNECTION TO RANGE HOOD. TRANSITION AS REQUIRED. EXTEND DUCT UP THROUGH ROOF. COORDINATE ALL INSTALLATION REQUIREMENTS WITH MANUFACTURER'S INSTRUCTIONS.*

31 *PROVIDE AND INSTALL NEW THERMOSTAT FOR NEW ROOFTOP UNIT IN EXISTING J-BOX MAINTAINED FROM DEMOLITION. FIELD VERIFY EXACT LOCATION. PROVIDE NEW WIRING AS NECESSARY.*

32 *PROVIDE TRANSITION TO LARGER NECK SIZE.*

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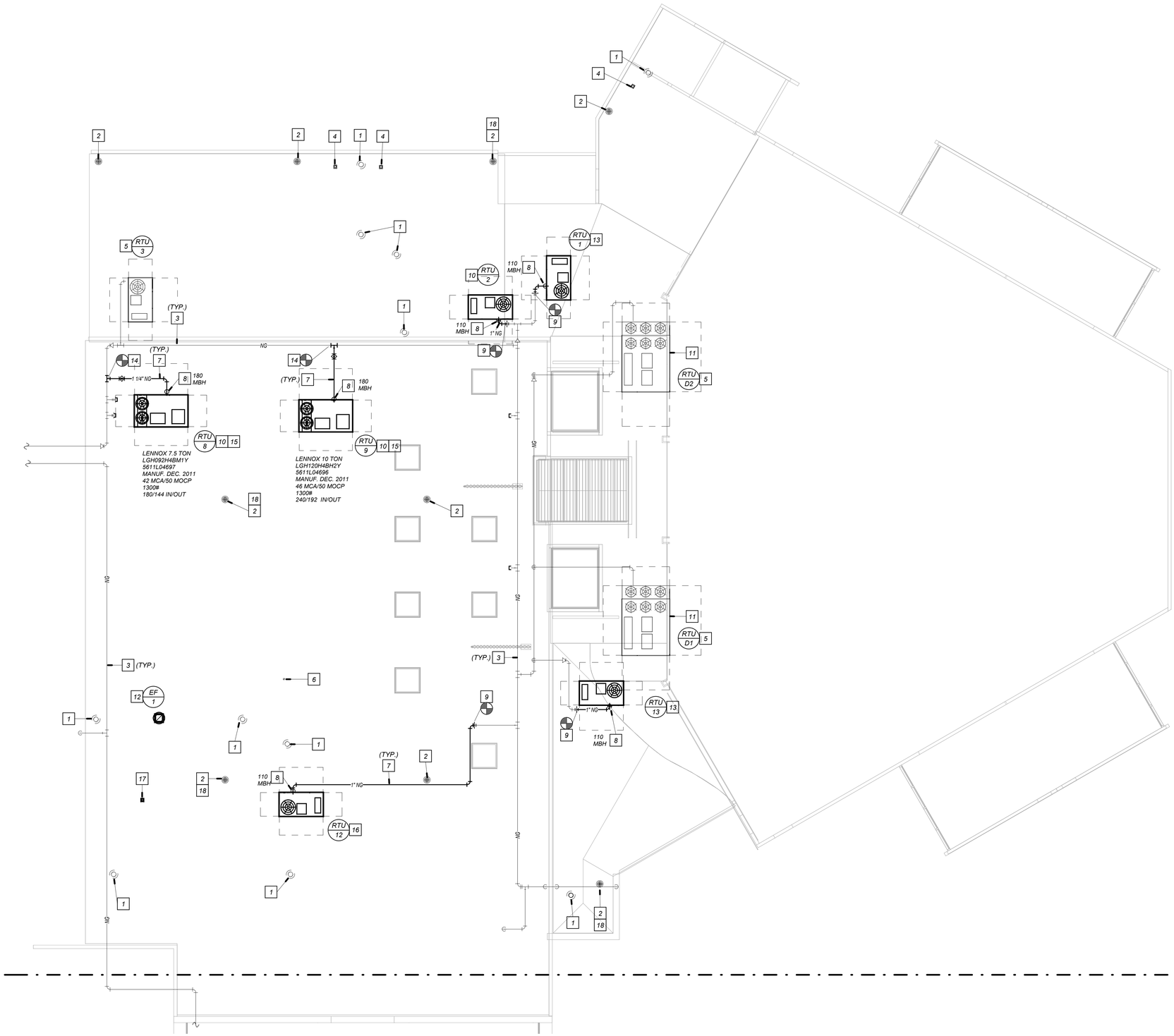

1 MECH/PLUM ROOF PLAN

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 EXISTING PLUMBING VENT THROUGH ROOF TO REMAIN.

2 EXISTING ROOF DRAIN TO REMAIN. FIELD VERIFY EXACT LOCATION.

3 EXISTING GAS PIPE TO REMAIN. FIELD VERIFY EXACT LOCATION.

4 EXISTING RESTROOM EXHAUST FAN VENT THROUGH ROOF TO REMAIN. FIELD VERIFY EXACT LOCATION.

5 EXISTING ROOFTOP UNIT AND ALL ASSOCIATED PIPING, DUCTWORK, ETC. TO REMAIN. FIELD VERIFY EXACT LOCATION.

6 EXISTING WATER HEATER FLUE THROUGH ROOF TO REMAIN. FIELD VERIFY EXACT LOCATION.

7 ROUTE GAS PIPE ON ROOF. PROVIDE SUPPORT AS NECESSARY. SUPPORT SHALL BE SIMILAR TO COOPER INDUSTRIES DURA-BLOK DB6 SERIES. SUPPORT PIPE EVERY 10'-0" AND AT EVERY FITTING, UNLESS SPECIFIED OTHERWISE BY INSTALLATION INSTRUCTIONS OR IN SPECIFICATIONS. FIELD VERIFY EXACT ROUTING WITH ALL CONDITIONS. ALL GAS PIPING ON ROOF SHALL BE EASILY REMOVEABLE IN SECTIONS FOR FUTURE REROOFING. PIPING TO BE THREADED OR WELDED. WHERE WELDED PROVIDE WITH FLANGES TO ACCOMMODATE REMOVABLE SECTIONS.

8 PROVIDE GAS CONNECTION TO MECHANICAL EQUIPMENT. PROVIDE WITH GAS COCK. MBH LOAD IS INDICATED PER PLAN.

9 CONNECT TO EXISTING GAS PIPING MADE AVAILABLE DUE TO DEMOLITION. FIELD VERIFY EXACT LOCATION.

10 ROOFTOP UNIT. RE: SCHEDULE. INSTALL PER DETAIL ON NEW ROOF CURB. COORDINATE EXACT LOCATION WITH DEMOLISHED UNIT AND ALL EXISTING CONDITIONS INCLUDING ROOF STRUCTURE. REUSE EXISTING ROOF OPENINGS AS AVAILABLE. PROVIDE ADDITIONAL FRAMING AS INSTRUCTED BY STRUCTURAL ENGINEER. MAKE DUCT CONNECTIONS AS INDICATED. TRANSITION AS REQUIRED. PROVIDE 1" CONDUIT THROUGH ROOF CURB TO CEILING SPACE BELOW FOR CONTROL WIRING. ROUTE 1" UV RESISTANT CONDENSATE PIPE ALONG ROOF TO WITHIN 4" OF NEAREST ROOF DRAIN AND TERMINATE. SLOPE AT 1/8" PER FOOT AND SUPPORT AS NECESSARY.

11 PROVIDE AND INSTALL NEW WIRELESS THERMOSTAT FOR UNIT.

12 EXHAUST FAN. RE: SCHEDULE. INSTALL PER DETAIL. COORDINATE EXACT LOCATION WITH ALL EXISTING CONDITIONS AND ALIGN WITH ROOF OPENING MADE AVAILABLE DUE TO DEMOLITION.

13 ROOFTOP UNIT. RE: SCHEDULE. INSTALL PER DETAIL. COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS AND EXISTING ROOF CURB. SET UNIT ON NEW ADAPTER CURB. PROVIDE ADDITIONAL STRCTURAL FRAMING AS INSTRUCTED BY STRUCTURAL ENGINEER. MAKE DUCT CONNECTIONS AS INDICATED. TRANSITION AS REQUIRED. PROVIDE 1" CONDUIT THROUGH ROOF CURB TO CEILING SPACE BELOW FOR CONTROL WIRING. ROUTE 1" UV RESISTANT CONDENSATE PIPE ALONG ROOF TO WITHIN 4" OF NEAREST ROOF DRAIN AND TERMINATE. SLOPE AT 1/8" PER FOOT AND SUPPORT AS NECESSARY.

14 CONNECT TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION.

15 UNIT PROVIDED BY OWNER. CONTRACTOR TO INSTALL. PROVIDE WITH NEW 14" HIGH INSULATED ROOF CURB. REPLACE FILTER AND CLEAN INTERIOR/EXTERIOR COILS. PERFORM START-UP AND NOTIFY ARCHITECT IF ADDITIONAL REPAIRS ARE REQUIRED.

16 ROOFTOP UNIT. RE: SCHEDULE. INSTALL PER DETAIL ON NEW ROOF CURB. COORDINATE EXACT LOCATION WITH ALL EXISTING CONDITIONS INCLUDING ROOF STRUCTURE. PROVIDE STRUCTURAL FRAMING AS INSTRUCTED BY STRUCTURAL ENGINEER. MAKE DUCT CONNECTIONS AS INDICATED. TRANSITION AS REQUIRED. PROVIDE 1" CONDUIT THROUGH ROOF CURB TO CEILING SPACE BELOW FOR CONTROL WIRING. ROUTE 1" UV RESISTANT CONDENSATE PIPE ALONG ROOF TO WITHIN 4" OF NEAREST ROOF DRAIN AND TERMINATE. SLOPE AT 1/8" PER FOOT AND SUPPORT AS NECESSARY.

17 6" DIA. DUCT FROM RANGE HOOD. TERMINATE WITH ROOF CAP. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

18 TO BE USED FOR ROOFTOP UNIT CONDENSATE. ADD INSULATION ON EXISTING HORIZONTAL PIPING IN CEILING SPACE AS NECESSARY. RE: SPECS.

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MECHANICAL SYMBOLS

- OR — NEW DUCTWORK
- SUPPLY DUCT
- RETURN OR EXHAUST DUCT
- SUPPLY DIFFUSER
- RETURN GRILLE
- R — R/D — RISE OR DROP IN DUCT
- MANUAL VOLUME DAMPER
- SUPPLY DUCT DOWN
- SUPPLY DUCT UP
- WALL MOUNTED DIFFUSER/GRILLE
- FLEXIBLE DUCT CONNECTION
- (T) THERMOSTAT, MOUNT AT 48"AFF.
- (F) FAN CONTROLLER, MOUNT AT 48"AFF.
- (S) SENSOR, MOUNT AT 48"AFF.
- MD MOTORIZED DAMPER
- FD FIRE DAMPER
- A — SUPPLY DIFFUSER, RETURN OR EXHAUST GRILLE TYPE
- AHU 1 — EQUIPMENT TYPE AND DESIGNATION

OUTSIDE AIR SCHEDULE1

EQUIPMENT	Name	Number	Area	Area per Person	Number of People	Ventilation Rate CFM per Person	Ventilation Rate CFM per SF	People Ventilation CFM	Square Foot Ventilation CFM	Required O.A. CFM	O.A. Provided	Exhaust Rate CFM per SF	Required Exhaust per SQ.FT.	Exhaust Rate CFM per FIXTURE	Exhaust Rate Number of Fixtures	Required Exhaust	Provided Exhaust
RTU-1 & 13	CHAPEL	106	302 SF	38 SF	8	5 CFM	0.06 CFM	40	19	59	60	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-1 & 13	STOR.	125	87 SF	0 SF	0	5 CFM	0.06 CFM	0	6	6	10	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-1 & 13	VESTIBULE	127	64 SF	0 SF	0	5 CFM	0.06 CFM	0	4	4	6	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-1 & 13	RECONCIL.	128	84 SF	84 SF	1	5 CFM	0.06 CFM	5	6	11	11	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-1 & 13	N. SANCT. EXP	136	676 SF	11 SF	59	5 CFM	0.06 CFM	295	41	336	337	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-1 & 13	S. SANCT. EXP	137	849 SF	14 SF	59	5 CFM	0.06 CFM	295	51	346	346	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-1 & 13			2061 SF		127					762	770					0 CFM	0 CFM
RTU-2	VESTIBULE	105	197 SF	0 SF	0	5 CFM	0.06 CFM	0	12	12	70	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-2	REST ROOM	108	48 SF	0 SF	0	0 CFM	0.00 CFM	0	0	0	30	0.00 CFM	0 CFM	50 CFM	1	50 CFM	75 CFM
RTU-2	SACRISTY	110	203 SF	203 SF	1	5 CFM	0.06 CFM	5	13	18	60	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-2	MEN	111	171 SF	0 SF	0	0 CFM	0.00 CFM	0	0	0	20	0.00 CFM	0 CFM	50 CFM	3	150 CFM	150 CFM
RTU-2	WOMEN	112	207 SF	0 SF	0	0 CFM	0.00 CFM	0	0	0	20	0.00 CFM	0 CFM	50 CFM	3	150 CFM	150 CFM
RTU-2			825 SF		1					30	200					350 CFM	375 CFM
RTU-8	MULLIGAN ROOM	116	1945 SF	24 SF	80	5 CFM	0.06 CFM	400	117	517	520	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-8			1945 SF		80					517	520					0 CFM	0 CFM
RTU-9 & 12	SOUTH GATHERING	101	2550 SF	32 SF	80	5 CFM	0.06 CFM	400	153	553	560	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-9 & 12	GATHERING	102	1223 SF	28 SF	44	5 CFM	0.06 CFM	220	74	294	299	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-9 & 12	NORTH GATHERING	103	576 SF	48 SF	12	5 CFM	0.06 CFM	60	35	95	95	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-9 & 12	HALL	115	259 SF	0 SF	0	5 CFM	0.06 CFM	0	16	16	16	0.00 CFM	0 CFM	0 CFM	0	0 CFM	0 CFM
RTU-9 & 12	WOMEN	117	296 SF	0 SF	0	0 CFM	0.00 CFM	0	0	0	0	0.00 CFM	0 CFM	50 CFM	5	250 CFM	300 CFM
RTU-9 & 12	MEN	118	296 SF	0 SF	0	0 CFM	0.00 CFM	0	0	0	0	0.00 CFM	0 CFM	50 CFM	6	300 CFM	300 CFM
RTU-9 & 12	WORK ROOM	120	637 SF	212 SF	3	10 CFM	0.06 CFM	30	39	69	70	0.00 CFM	0 CFM	300 CFM	1	300 CFM	300 CFM
RTU-9 & 12			5836 SF		139					1027	1040					850 CFM	900 CFM

REMARKS: 1.) BASED ON ASHRAE STANDARD 62.1-2012.

ROOFTOP UNIT SCHEDULE

MARK	#	MANUFACTURE R	MODEL NO.	FLOW (cfm)	HP	O.A. FLOW (cfm)	E.S.P. (in-wg)	AMB. (°F)	TOTAL (mBtu/h)	SENSIBLE (mBtu/h)	ENTERING AIR D.B. (°F)	ENTERING AIR W.B. (°F)	LEAVING AIR D.B. (°F)	LEAVING AIR W.B. (°F)	REFR	STAGES	# OF COMP.	EER	INPUT (mBtu/h)	EFF (%)	OUTPUT (mBtu/h)	E.A.T. (°F)	ΔT (°F)	L.A.T. (°F)	STAGES	VOLTS	ø	HZ	MCA	MOCP	WEIGHT (lbs.)	REMARKS
RTU	1	CARRIER	48FCEN07A2M5	2200	2.00	385	0.75	105	68.2	58.7	80	67	59.0	58.0	R-410A	2	1	11.0	110.0	80.00	88.0	70.0	34.0	104.0	2	208	3	60	28	45	810	NOTE 1, 3, 4, 8
RTU	2	CARRIER	48FCEB04A2M5	1300	1.00	200	0.75	105	34.9	29.7	80	67	58.0	57.8	R-410A	2	1	12.0	110.0	80.00	88.0	70.0	54.3	124.3	2	208	3	60	25	30	800	NOTE 1, 6
RTU	8	LENNOX	LGH092H4BM1Y	3000	0.00	520	0.00	0	0.0	0.0	0	0	0.0	0.0	R-410A	1	2	0.0	180.0	80.00	144.0	0.0	0.0	0.0	2	208	3	60	42	50	1450	NOTE 2, 3, 6, 7, 9
RTU	9	LENNOX	LGH120H4BH2Y	3920	0.00	690	0.00	0	0.0	0.0	0	0	0.0	0.0	R-410A	1	2	0.0	240.0	80.00	192.0	0.0	0.0	0.0	2	208	3	60	46	50	1450	NOTE 3, 5, 6, 7, 9
RTU	12	CARRIER	48LCEB06A2M5	2000	1.50	350	0.75	105	55.0	43.4	80	67	59.5	58.9	R-410A	2	1	14.0	110.0	80.00	88.0	70.0	40.7	110.7	2	208	3	60	31	45	800	NOTE 1, 3, 6, 9
RTU	13	CARRIER	48FCEN07A2M5	2200	2.00	385	0.75	105	68.2	58.7	80	67	59.0	58.0	R-410A	2	1	11.0	110.0	80.00	88.0	70.0	34.0	104.0	2	208	3	60	28	45	810	NOTE 1, 3, 4, 8

REMARKS:
1.) PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT, DISCONNECT SWITCH, GFCI OUTLET, DEHUMIDIFICATION WITH HOT GAS REHEAT, ADJUSTABLE ENTHALPY ECONOMIZER, SUPPLY AIR GAS HEAT TEMPERING, BAROMETRIC RELIEF DAMPERS, 2" MERV FILTERS, BAROMETRIC RELIEF HOOD, HAIL GUARDS, HUMIDITY SENSOR, AND MOTORIZED OUTSIDE AIR INTAKE DAMPER WITH HIGH EFFICIENT INTAKE, CRANKCASE HEATER, OVERLOAD PROTECTION, HIGH PRESSURE SWITCH AND LOW AMBIENT CONTROL.
2.) UNIT IS PROVIDED BY OWNER AND AT SITE. SERIAL #5611L04697 MANUFACTURED IN DEC. 2011.
3.) PROVIDE RETURN AIR SMOKE DETECTOR AND WIRED TO SHUTDOWN UNIT SUPPLY FAN.
4.) PROVIDE UNIT WITH ADAPTER CURB. CONTRACTOR SHALL FIELD MEASURE EXISTING CURB AND SUBMIT DIMENSIONS TO MANUFACTURER.
5.) UNIT IS PROVIDED BY OWNER AND AT SITE. SERIAL #5611L04696 MANUFACTURED IN DEC. 2011
6.) PROVIDE WITH 14" HIGH INSULATED ROOF CURB.
7.) PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.
8.) PROVIDE WITH CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
9.) PROVIDE WITH RESTRAINED SPRING ISOLATOR ON CURB.

AIR TERMINAL SCHEDULE

MARK	MANUFACTURER	MODEL NO.	PRODUCT DESCRIPTION	FACE SIZE	NECK SIZE	MOUNTING TYPE	FINISH	REMARKS
EA	EH PRICE	PDDR	PERFORATED FACE	24"x24"	10"Ø	LAYIN	WHITE	
RA	EH PRICE	535L	LOUVER FACE RETURN GRILLE	24"x24"	22"x22"	LAYIN	WHITE	NOTE 1
RB	EH PRICE	535L	LOUVER FACE RETURN GRILLE	24"x24"	22"x22"	SURFACE	WHITE	NOTE 1, 2
SA	EH PRICE	SCD SERIES	SQUARE CONE DIFFUSER	24"x24"	10"Ø	LAYIN	WHITE	
SB	EH PRICE	SCD SERIES	SQUARE CONE DIFFUSER	24"x24"	8"Ø	LAYIN	WHITE	
SC	EH PRICE	SCD SERIES	SQUARE CONE DIFFUSER	24"x24"	8"Ø	SURFACE	WHITE	NOTE 2

REMARKS: 1.) LESS SCREW HOLES.
2.) PROVIDE WITH PLASTER FRAME.

EXHAUST FAN SCHEDULE

MARK	#	MANUFACTURER	MODEL NO.	PRODUCT DESCRIPTION	FLOW (cfm)	HP	RPM	E.S.P. (in-wg)	DRIVE	ELECTRICAL DATA VOLTS	ø	HZ	WEIGHT (lbs.)	CONTROLS NOTES	REMARKS
EF	1	GREENHECK	G-123-VG	ROOF MOUNTED DIRECT DRIVE EXAUST FAN	600	1/4	1024	0.70	DIRECT	120	1	60	60	LIGHTS	NOTE 1

REMARKS: 1.) PROVIDE WITH COMBINATION DISCONNECT SWITCH/NEMO 0 STARTER, FAN MOUNTED SPEED CONTROLLER, 14" INSULATED ROOF CURB, BACKDRAFT DAMPER, ALUMINUM BIRDSCREEN, CURB SEAL AND MOTOR WITH THERMAL OVERLOADS.

GENERAL NOTES

A.) CONTRACTORS AND SUBCONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CAN NOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B.) COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENT OF OWNER AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE BIDDING.

C.) DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWING FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D.) ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING COUNTY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, BOCA, UBC, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E.) DUCT SIZES INDICATED ARE FREE AREA SIZES. WHERE LINER IS SPECIFIED SHEET METAL SHALL BE INCREASED TO ACCOMMODATE THICKNESS OF LINER.

F.) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC.

G.) ALL MATERIALS EXPOSED WITHIN DUCTS AND PLENUMS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH THE TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, UBC STANDARD 8-1.

H.) ONLY PLENUM RATED PVC PIPING SHALL BE ALLOWED IN PLENUM.

I.) ROUND DUCT DIMENSIONS SHOWN ARE AIR SIDE RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS INDICATED OTHERWISE. LENGTH OF FLEXIBLE DUCTS ARE NOT TO EXCEED 5'-0".

J.) ALL NEW SMOKE DETECTORS ASSOCIATED WITH SMOKE DAMPERS AND HVAC SHUT-OFFS SHALL BE TESTED BY AN APPROVED TESTING AGENCY OR A QUALIFIED THIRD PARTY SPECIAL INSPECTOR. THE SPECIAL INSPECTOR/TESTING AGENCY SHALL BE AN INDEPENDENT THIRD PARTY INDIVIDUAL OR FIRM AND SHALL NOT BE THE INSTALLING CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING'S FIRE ALARM CONTROL PANEL. ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION. DUCT SMOKE DETECTORS SHALL NOT BE USED AS A SUBSTITUTE FOR REQUIRED OPEN AREA DETECTION

K.) FIRE DAMPERS TO BE DYNAMIC RATED WITH SHUTTER OUT OF THE AIR STREAM.

L.) INSTALL DUCTWORK TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE DUCT ELEVATIONS WITH ARCHITECTURAL RCP AND ELEVATIONS. PROVIDE RISE/DROP AS NECESSARY TO KEEP DUCTWORK EXPOSED ABOVE CEILING.

M.) CONTRACTOR SHALL CAULK/SEAL EVERY WALL PENETRATION AS SPECIFIED BY ARCHITECT OR ENGINEER. WHERE WALL IS SMOKE/FIRE RATED CONTRACTOR SHALL PROVIDE REQUIRED U.L. FIRE STOP. IF THE ARCHITECTURAL AND MECHANICAL SPECIFICATIONS REGARDING CAULKING/SEALING ARE NOT CONSISTENT CONTRACTOR SHALL USE THE MOST STRINGENT.

N.) INTENT. BY SUBMITTING A BID THE CONTRACTOR ACCEPTS RESPONSIBILITY TO PROVIDE A COMPLETE HVAC SYSTEM BASED ON THE INTENT OF THESE DRAWINGS. THE DRAWINGS SHALL SERVE AS WORKING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT; ARE DIAGRAMMATIC; AND DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM. AS SUCH THE CONTRACTOR SHALL INCLUDE AS A PART OF HIS BID ALL WORK, MATERIALS, LABOR, EQUIPMENT, TOOLS, INSURANCE, TAXES, SERVICES, APPURTANCES, ETC. TO MAKE A COMPLETE OPERATIONAL SYSTEM. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH COMPLETION OF MECHANICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

O.) CHANGES. CONTRACTOR SHALL NOT MAKE ANY CHANGE TO OR DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER. THE ARCHITECT/ENGINEER WILL NOT BE RESPONSIBLE OR LIABLE FOR ANY CHANGES MADE WITHOUT THE ENGINEER'S KNOWLEDGE AND APPROVAL.

P.) QUESTIONS. ANY QUESTIONS THAT ARISE IN THE FIELD OR UPON REVIEW OF THE CONTRACT DRAWINGS THE CONTRACTOR SHALL SUBMIT THE QUESTION IN WRITING TO THE ARCHITECT/ENGINEER FOR CLARIFICATION. A PHONE CALL IS PERMISSIBLE BUT MUST BE FOLLOWED BY WITH THE WRITTEN SUBMISSION. REFER TO CONSTRUCTION MANAGER SCOPE OF WORK.

Q.) DOCUMENTS. CONTRACTOR SHALL READ AND BE FAMILIAR WITH THE REQUIREMENTS WITHIN ALL DRAWINGS AND SPECIFICATIONS. HE SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, AQUATIC, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE HIMSELF WITH THE TYPE OF CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF HIS CONTRACT. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR, AND INCLUDED ALL COSTS IN HIS PROPOSAL. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION.

GENERAL NOTES

R.) COORDINATION. COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

S.) ROOF CURBS. SOME ROOF AREAS ARE SLOPED. COORDINATE CURB FABRICATION AND INSTALLATION WITH ROOF.

T.) DIMENSIONS. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD OF HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

U.) TRIM. PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

V.) CEILINGS. CONTRACTOR SHALL COORDINATE GRILLE/DIFFUSER TYPES WITH REFLECTED CEILING PLAN. CONTRACTOR SHALL ALSO PROVIDE PLASTER FRAMES FOR GYP BOARD INSTALLATIONS AND COORDINATE T-BAR GRILLES WITH T-BAR SPECIFICATION.

W.) SUBSTITUTIONS. CONTRACTOR'S BIDS SHALL BE BASED ON THE MATERIAL MENTIONED OR SPECIFIED, AND ANY PROPOSALS FOR A SUBSTITUTION SHALL BE MADE IN WRITING TO THE ARCHITECT/ ENGINEER ALLOWING ADEQUATE TIME FOR APPROPRIATE ACTION. THE PRODUCTS OF OTHER MANUFACTURERS MAY BE ACCEPTED, IF IN THE OPINION OF THE ARCHITECT/ENGINEER, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED. THE BURDEN OF PROOF OF EQUALITY IS UPON THE PROPOSER.

X.) SHOP DRAWINGS. SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND APPARATUS, AND SUCH OTHER ILLUSTRATIVE MATERIALS AS MAY BE CONSIDERED NECESSARY BY THE ARCHITECT/ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION. BEFORE SUBMITTING SHOP DRAWINGS AND MATERIAL LISTS, VERIFY THAT EQUIPMENT SUBMITTED IS MUTUALLY COMPATIBLE AND SUITABLE FOR THE INTENDED USE AND WILL FIT THE AVAILABLE SPACE AND ALLOW AMPLE ROOM FOR MAINTENANCE. THE ENGINEER'S CHECKING AND SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS; COORDINATION OF ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS. PROCEED WITH THE PROCUREMENT AND INSTALLATION OF EQUIPMENT ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS RELATIVE TO EACH ITEM. CATALOG DATA SHALL BE PROPERLY BOUND, IDENTIFIED, INDEXED AND TABBED. EACH ITEM OR MODEL NUMBER SHALL BE CLEARLY MARKED AND ACCESSORIES INDICATED. LABEL THE CATALOG DATA WITH THE EQUIPMENT IDENTIFICATION ACRONYM OR NUMBER AS USED ON THE DRAWINGS AND INCLUDE PERFORMANCE CURVES, CAPACITIES, SIZES, MATERIALS, FINISHES, WIRING DIAGRAMS AND DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. MARK OUT INAPPLICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF THE ABOVE REQUIREMENTS ARE NOT MET.

Y.) PROTECTION. STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED AND THE CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND. PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED AND INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS. KEEP THE MANUFACTURER-PROVIDED PROTECTIVE COVERINGS ON FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS DURING CONSTRUCTION. REMOVE COVERINGS AT THE TERMINATION OF THE WORK AND POLISH EXPOSED SURFACES.

Z.) LICENSES/CODES. ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND INSTALLATION. WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES HAVE JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEEDS THE REQUIREMENTS OF THE REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. WHERE REQUIRED, OBTAIN, PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO THE OWNER. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE LAW. MAINTAIN NECESSARY SIGNAL LIGHTS AND GUARDS FOR THE SAFETY OF THE PUBLIC. THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCATION AUTHORITIES HAVING JURISDICTION. WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCEPTABLE TO THE ARCHITECT/ENGINEER, AND UNIFORM PLUMBING AND MECHANICAL CODES SHALL APPLY TO THIS WORK.

PROJECT DESIGN CRITERIA

LOCATION:	LEE'S SUMMIT, MO
COOLING:	
DESIGN OUTSIDE TEMPERATURES:	99°F DB, 75°F WB
DESIGN INSIDE TEMPERATURES:	74°F, 50% RH
HEATING:	
DESIGN OUTSIDE TEMPERATURE:	2°F
DESIGN INSIDE TEMPERATURE	
ALL OCCUPIED AREAS:	72°F
OUTSIDE AIR QUANTITY:	
PER ASHRAE 62.1 2010 INCLUDING LATEST ADDENDUMS:	RE: OUTSIDE AIR CALCULATION TABLE
EXHAUST AIR QUANTITY:	
PUBLIC TOILETS:	75 CFM PER WC OR URINAL
INTERNAL LOAD ALLOWANCE:	
LIGHTS:	1.0 WATTS PER SQUARE FOOT
120 VOLT POWER:	0.5 WATTS PER SQUARE FOOT
EXTERNAL ALLOWANCE:	
GLASS-1	U=0.56 SC=0.88
GLASS-2	U=0.34 SC=0.44
GLASS-3	U=0.56 SC=0.65
WALL-1	U=0.08
WALL-2	U=0.095
WALL-3	U=0.2
ROOF-1	U=0.05

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CERTIFICATE OF AUTHORITY
2006007202

STATE OF MISSOURI
DOMINICK J. RUGGERITO
NUMBER E-2001004658
REGISTERED PROFESSIONAL ENGINEER
12/9/19

LaTona Architects
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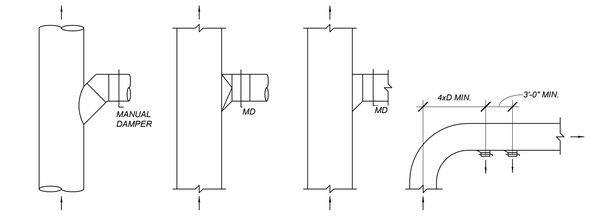
130 NW MURRAY RD.
LEE'S SUMMIT, MO

OUR LADY OF THE PRESENTATION

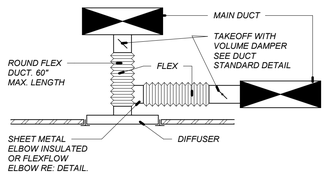
Drawn by: BGR
Checked by: BGR
Issue date: 02/01/20
Revised:

M3

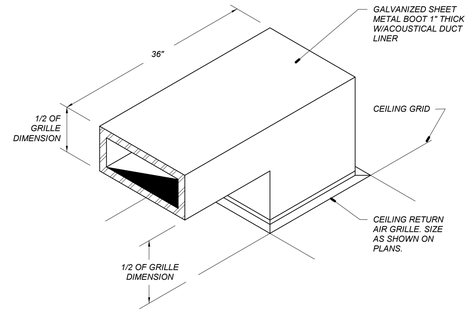


1 DUCT STANDARDS DETAIL
SCALE: NONE

NOTE:
BRANCH DUCT RUNOUT TO DIFFUSER SHOULD BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE INDICATED ON PLAN.

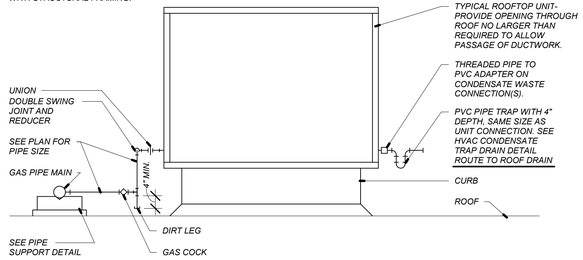


2 DIFFUSER DETAIL
SCALE: NONE

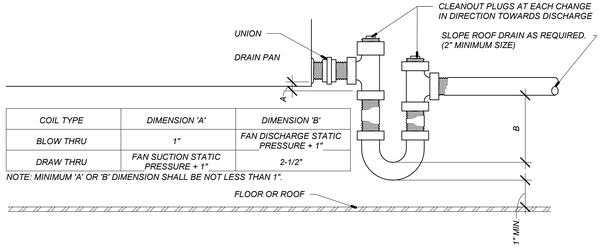


3 RETURN AIR BOOT DETAIL
SCALE: NONE

NOTE:
INSTALL ROOFTOP UNIT LEVEL. FLASH AND COUNTERFLASH ALL ROOF PENETRATIONS. CURB SHALL BE FULL PERIMETER TYPE TO MATCH JOIST SPACING. COORDINATE CURB INSTALLATION WITH STRUCTURAL FRAMING.



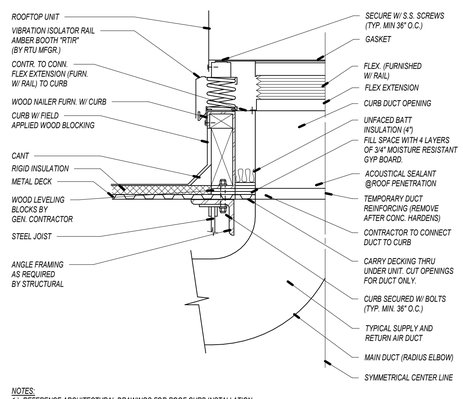
4 ROOFTOP UNIT CONNECTIONS DETAIL
SCALE: NONE



COIL TYPE	DIMENSION 'A'	DIMENSION 'B'
BLOW THRU	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THRU	FAN SUCTION STATIC PRESSURE + 1"	2-1/2"

NOTE: MINIMUM 'A' OR 'B' DIMENSION SHALL BE NOT LESS THAN 1".

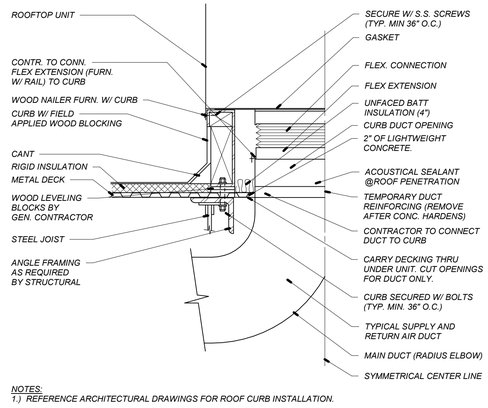
5 HVAC CONDENSATE TRAP DRAIN DETAIL
SCALE: NONE



NOTES:
1.) REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF CURB INSTALLATION.

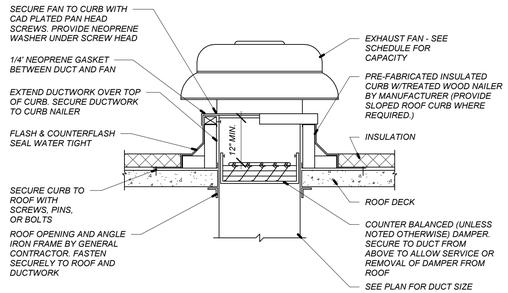
6 ROOF CURB AND DUCT DETAIL
SCALE: NONE

RTU-8, 9 &12



NOTES:
1.) REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF CURB INSTALLATION.

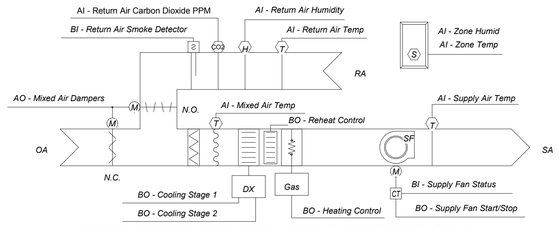
7 ROOF CURB AND DUCT DETAIL
SCALE: NONE



NOTES:
1.) REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF CURB INSTALLATION.

8 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: NONE

EF-1



RTU SEQUENCE OF OPERATION
RTU-1, 2, 8, 9, 12 & 13

UNIT SHALL OPERATE BASED ON A TIME OF DAY SCHEDULE--OCCUPIED/UNOCCUPIED AS DEFINED BY OWNER.

UNOCCUPIED
UNIT SUPPLY FAN SHALL BE OFF. OUTSIDE AIR DAMPER SHALL BE CLOSED, HEATING AND COOLING SHALL BE OFF. IF SPACE TEMPERATURE RISES ABOVE 78°F (OR DROPS BELOW 68°F) THE SPACE UNOCCUPIED SETPOINT THE UNIT SHALL RUN AS DESCRIBED BELOW TO SATISFY UNOCCUPIED SETPOINT EXCEPT THAT OUTSIDE AIR DAMPER SHALL BE CLOSED.

OCCUPIED
UNIT SUPPLY FAN SHALL BE ON AND THE OUTSIDE AIR DAMPER SET TO THE MINIMUM POSITION. UPON A CALL FOR COOLING (ABOVE 74°F) THE CONDENSING UNIT STAGE TO SATISFY THE OCCUPIED COOLING SETPOINT. GAS VALVE SHALL BE CLOSED.

UPON A CALL FOR HEATING (BELOW 70°F) THE GAS HEATING VALVE SHALL MODULATE TO SATISFY THE OCCUPIED HEATING SETPOINT. CONDENSING UNIT SHALL BE OFF.

CO2 SPACE SENSOR (WHERE SPECIFIED) SHALL CONTROL THE POSITION OF THE OUTSIDE AIR DAMPER. THE OCCUPIED MAXIMUM AND MINIMUM POSITIONS SHALL BE SET FOR CFM INDICATED IN THE RTU SCHEDULE. WHEN CO2 LEVELS EXCEED 1000PPM THE OUTSIDE AIR DAMPER SHALL BE FULLY OPENED UNTIL IT DROPS TO 600PPM. BETWEEN CO2 LEVELS OF 0-600 PPM OUTSIDE AIR DAMPER SHALL BE SET TO 35% of SCHEDULED OUTSIDE AIR.

UPON A CALL FOR DEHUMIDIFICATION, ABOVE 60% RELATIVE HUMIDITY, (ADJUSTABLE) THE HUMIDISTAT SHALL OVERRIDE COOLING CYCLE AND START THE CONDENSING UNIT. THE REHEAT SOLENOID VALVE SHALL DIVERT HOT GAS TO THE REHEAT COIL. THE REHEAT COILS SHALL PROVIDE 68°F-75°F SUPPLY AIR DURING DEHUMIDIFICATION.

UPON A CALL FOR ECONOMIZER MODE, OUTDOOR AIR ENTHALPY IS LESS THAN SETPOINT, CONDENSING UNIT SHALL BE OFF AND GAS VALVE SHALL BE CLOSED. OUTDOOR AIR DAMPER SHALL MODULATE TO MAINTAIN COOLING SETPOINT.

DISCHARGE AIR TEMPERATURE SHALL BE TEMPERED WITH HEAT TO MAINTAIN A NEUTRAL (70°F) SUPPLY TEMPERATURE WHEN THE THERMOSTAT DOES NOT CALL FOR HEAT.

9 ROOFTOP UNIT SEQUENCE DIAGRAM
SCALE: NONE

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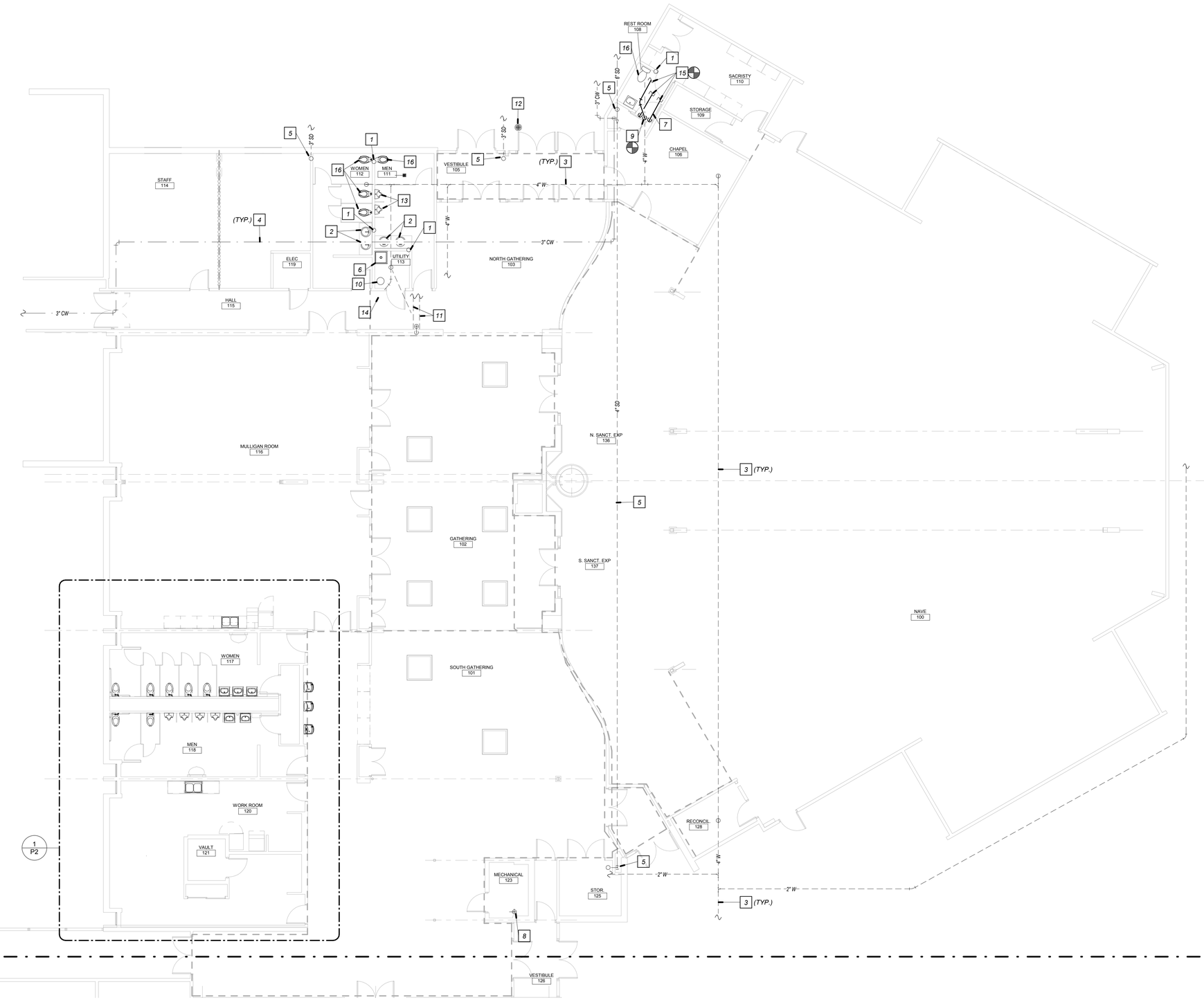

PLUMBING PLAN

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *EXISTING VENT PIPE UP THROUGH ROOF TO REMAIN. FIELD VERIFY EXACT LOCATION.*

2 *EXISTING LAV/SINK AND ALL ASSOCIATED PIPING TO REMAIN.*

3 *APPROXIMATE LOCATION OF THE EXISTING BELOW SLAB SANITARY SEWER PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *APPROXIMATE LOCATION OF EXISTING MAIN COLD WATER PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

5 *EXISTING ROOF DRAIN PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

6 *EXISTING SINK AND ALL ASSOCIATED PIPING TO REMAIN.*

7 *RELOCATED LAVATORY AND FAUCET. MAKE NEW WASTE, VENT AND WATER PIPE CONNECTIONS AS REQUIRED.*

8 *EXISTING GAS PIPE FROM ROOF TO REMAIN. CAP PIPE DUE TO DEMOLITION.*

9 *DROP WASTE PIPE DOWN TO BELOW FLOOR AND CONNECT TO EXISTING SANITARY SEWER PIPE. FIELD VERIFY EXACT LOCATION AND ELEVATION PRIOR TO BEGINNING ANY WORK WITH VIDEOSCOPE. MODIFY EXISTING PIPING AS REQUIRED TO MAKE THE CONNECTION. SAWCUT FLOOR SLAB AND TRENCH AS REQUIRED. PATCH AND REPAIR FLOOR AS INSTRUCTED BY ARCHITECT.*

10 *EXISTING ELECTRIC WATER HEATER TO REMAIN.*

11 *EXISTING PIPING TO BE ABANDONED IN PLACE DUE TO SINK RELOCATION.*

12 *EXISTING ROOF DRAIN IN ENTRY CANOPY ROOF.*

13 *EXISTING URINAL TO REMAIN.*

14 *EXISTING DRINKING FOUNTAIN TO REMAIN.*

15 *EXTEND PIPING AND CONNECT TO EXISTING HW, CW AND VENT PIPING MADE AVAILABLE DUE TO DEMOLITION. FIELD VERIFY EXACT LOCATION. MODIFY PIPE ROUTE AS REQUIRED.*

16 *EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING TO REMAIN.*

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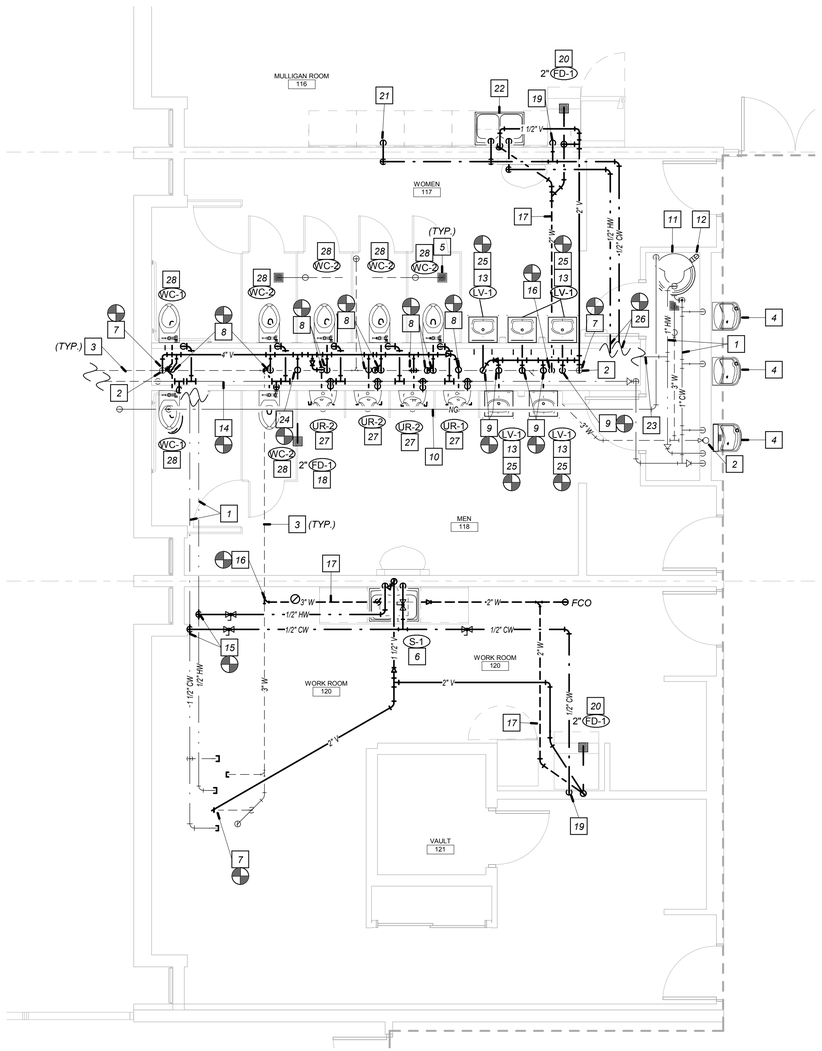

1 ENLARGED PLUMBING PLAN

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

FLOOR PLAN NOTES

1 *APPROXIMATE LOCATION OF EXISTING DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

2 *EXISTING VENT PIPE UP THROUGH ROOF TO REMAIN. FIELD VERIFY EXACT LOCATION.*

3 *APPROXIMATE LOCATION OF THE EXISTING BELOW SLAB SANITARY SEWER PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING DRINKING FOUNTAIN TO REMAIN.*

5 *EXISTING FLOOR DRAIN TO REMAIN. PROVIDE WITH NEW NICKEL-BRONZE GRATE. FIELD MEASURE EXACT SIZE.*

6 *NEW SINK. CONCEAL ALL PIPING WITH NEW ARCHITECTURAL CHASE/WALL. RE: BRANCH FIXTURE SCHEDULE FOR SIZES.*

7 *CONNECT TO EXISTING VENT PIPE UP THROUGH ROOF. FIELD VERIFY EXACT LOCATION.*

8 *ROUTE NEW WASTE FROM NEW PLUMBING FIXTURE DOWN THROUGH FLOOR AND CONNECT TO EXISTING WASTE PIPE. FIELD VERIFY EXACT LOCATION OF EXISTING WASTE PIPE PRIOR TO BEGINNING ANY WORK. SAWCUT SLAB AND TRENCH AS REQUIRED. MAKE NEW VENT CONNECTION AND ROUTE WITHIN CHASE AS SHOWN.*

9 *ROUTE NEW 2" WASTE FROM LAVATORIES DOWN THROUGH FLOOR AND CONNECT TO EXISTING WASTE PIPE. FIELD VERIFY EXACT LOCATION OF EXISTING WASTE PIPE PRIOR TO BEGINNING ANY WORK. SAWCUT SLAB AND TRENCH AS REQUIRED. MAKE NEW VENT CONNECTION AND ROUTE WITHIN CHASE AS SHOWN.*

10 *EXISTING GAS PIPE FROM ROOF TO WATER HEATER TO REMAIN.*

11 *EXISTING GAS FIRED WATER HEATER AND ALL ASSOCIATED PIPING TO REMAIN.*

12 *EXISTING WATER HEATER FLUE UP THROUGH ROOF TO REMAIN.*

13 *PROVIDE WITH MIXING VALVE. SET FOR A MAXIMUM HOT WATER TEMPERATURE OF 105F. VALVE SHALL BE SIMILAR TO LEONARD 170A-LF-BRKT UNIVERSAL UNDERSINK THERMOSTATIC MIXING VALVE.*

14 *APPROXIMATE LOCATION OF EXISTING 2-1/2" COLD WATER PIPE TO REMAIN THAT RUNS HORIZONTALLY WITHIN THE CHASE. FIELD VERIFY EXACT LOCATION. PROVIDE NEW CONNECTION FOR EACH NEW FIXTURE OR MODIFY EXISTING DROPS AS NEEDED TO COMINECT TO NEW FIXTURE LAYOUT. RE: BRANCH FIXTURE SCHEDULE FOR SIZES. CAP ANY UNUSED EXISTING DROPS DUE TO FIXTURE DEMOLITION.*

15 *CONNECT TO EXISTING HOT AND COLD WATER PIPING ABOVE CEILING. ROUTE TO NEW SINK. FIELD VERIFY EXACT LOCATION OF EXISTING PIPING AND MODIFY PIPE ROUTE AS REQUIRED.*

16 *CONNECT TO EXISTING SANITARY SEWER PIPE BELOW FLOOR. FIELD VERIFY EXACT LOCATION AND ELEVATION PRIOR TO BEGINNING ANY WORK WITH VIDEOSCOPE. MODIFY EXSITING PIPING AS REQUIRED TO MAKE THE CONNECTION.*

17 *ROUTE WASTE PIPE BELOW EXISTING FLOOR. SAWCUT FLOOR SLAB AND TRENCH AS REQUIRED. PATCH AND REPAIR FLOOR AS INSTRUCTED BY ARCHITECT.*

18 *INSTALL NEW FLOOR DRAIN IN EXISTING FLOOR. ROUTE WASTE PIPE BELOW FLOOR AS SHOWN TO EXISTING SANITARY PIPE IN CHASE AND CONNECT. SAWCUT FLOOR SLAB AND TRENCH AS REQUIRED. PATCH AND REPAIR FLOOR AS INSTRUCTED BY ARCHITECT.*

19 *PROVIDE ROUGH-IN FOR ICE MAKER CONNECTION. PROVIDE WITH 1/4 TURN VALVE AND ESCUTCHEON. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLING.*

20 *INSTALL FLOOR DRAIN FOR ICE MAKER. COORDINATE EXACT LOCATION WITH OWNER. SAWCUT SLAB AS REQUIRED.*

21 *PROVIDE ABOVE COUNTER ROUGH-IN FOR COFFEE MAKER CONNECTION. PROVIDE WITH 1/4 TURN VALVE AND ESCUTCHEON. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLING.*

22 *RELOCATED SINK AND FAUCET. MAKE NEW WASTE, VENT, HOT AND COLD WATER PIPE CONNECTIONS AS NECESSARY.*

23 *APPROXIMATE LOCATION OF EXISTING DOMESTIC HOT WATER PIPING ABOVE CEILING SERVING LAVATORIES FROM CHASE. PIPE TO REMAIN AND BE REUSED TO SUPPLY NEW LAVATORIES. FIELD VERIFY EXACT LOCATION.*

24 *ROUTE NEW WASTE FROM NEW FLOOR DRAIN AND CONNECT TO EXISTING WASTE PIPE BELOW FLOOR. FIELD VERIFY EXACT LOCATION OF EXISTING WASTE PIPE PRIOR TO BEGINNING ANY WORK. SAWCUT SLAB AND TRENCH AS REQUIRED. MAKE NEW VENT CONNECTION AND ROUTE WITHIN CHASE AS SHOWN.*

25 *CONNECT TO EXISTING HOT AND COLD WATER PIPING WITHIN CHASE MADE AVAILABLE DUE TO DEMOLITION. FIELD VERIFY EXACT LOCATION. MODIFY EXISTING DROPS AS NEEDED TO CONNECT TO NEW FIXTURE LAYOUT. RE: BRANCH FIXTURE SCHEDULE FOR SIZES. CAP ANY UNUSED EXISTING DROPS DUE TO FIXTURE DEMOLITION.*

26 *EXTEND HOT AND COLD WATER PIPING WITHIN CHASE AND CONNECT TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION. MODIFY PIPE ROUTE AS REQUIRED.*

27 *NEW URINAL. EXISTING COLD WATER TAPS MADE AVAILABLE DUE TO DEMOLITION CAN BE REUSED FOR CONNECTION TO NEW URNIAL. OTHERWISE, PROVIDE NEW COLD WATER PIPING. PROVIDE NEW WASTE AND VENT PIPE CONNECTIONS AS SHOWN.*

28 *CONNECT NEW WATER CLOSET TO EXISTING COLD WAER PIPING MADE AVAILABLE DUE TO DEMOLITION. PROVIDE NEW WASTE AND VENT PIPE CONNECTIONS AS SHOWN.*

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P2

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL NO.	DESCRIPTION
WC-1 ADA	TOTO	ELONGATED WALL MOUNTED CT708EG	WALL HUNG WATER CLOSET(ADA): WHITE VITREOUS CHINA, LOW CONSUMPTION SIPHON JET ACTION, ELONGATED BOWL, WALL MOUNTED WATER CLOSET WITH SANAGLOSS CERAMIC GLAZE, 1 1/2" TOP SPUD INLET AND 1000 LBS. EXTRA HEAVY DUTY WALL HANGER. MOUNT SEAT HEIGHT AT 17"AFF.
	TOTO	TET1LA	1.28 GPF FLUSH VALVE. SELF GENERATING HYDRO POWER WITH BATTERY BACKUP, EXPOSED ECOPOWER SENSOR OPERATED FLUSHOMETER PISTON VALVE, VACUUM BREAKER TUBE, ANGLE VALVE, POSITIVE SEAL, SELF CLEANING DEBRIS SCREEN, FLUSHING SYSTEM TO MATINA TRAP SEAL EVERY 24 HOURS WHEN NOT USED. TOP SPUD, NEUTRAL ROUGH-IN, CHROME PLATED FINISH, 3 YEAR WARRANTY, COMPLIANT WITH ANSI/ASSEE 1037. MOUNT FLUSH VALVE HANDLE TO WIDE SIDE OF STALL. BENEKE 527 SS, WHITE OPEN FRONT SEAT LESS COVER, AND SELF SUSTAINING CHECK HINGES.
WC-2	TOTO	ELONGATED WALL MOUNTED CT708EG	WALL HUNG WATER CLOSET: WHITE VITREOUS CHINA, LOW CONSUMPTION SIPHON JET ACTION, ELONGATED BOWL, WALL MOUNTED WATER CLOSET WITH SANAGLOSS CERAMIC GLAZE, 1 1/2" TOP SPUD INLET AND 1000 LBS. EXTRA HEAVY DUTY WALL HANGER. MOUNT SEAT HEIGHT AT 15"AFF.
	TOTO	TET1LA	1.28 GPF FLUSH VALVE. SELF GENERATING HYDRO POWER WITH BATTERY BACKUP, EXPOSED ECOPOWER SENSOR OPERATED FLUSHOMETER PISTON VALVE, VACUUM BREAKER TUBE, ANGLE VALVE, POSITIVE SEAL, SELF CLEANING DEBRIS SCREEN, FLUSHING SYSTEM TO MATINA TRAP SEAL EVERY 24 HOURS WHEN NOT USED. TOP SPUD, NEUTRAL ROUGH-IN, CHROME PLATED FINISH, 3 YEAR WARRANTY, COMPLIANT WITH ANSI/ASSEE 1037. MOUNT FLUSH VALVE HANDLE TO WIDE SIDE OF STALL. BENEKE 527 SS, WHITE OPEN FRONT SEAT LESS COVER, AND SELF SUSTAINING CHECK HINGES.
S-1	ELKAY ADA	LRAD3321	33"x21.5" DOUBLE COMPARTMENT SINK WITH TWO 13.5"x16" BOWLS: 18 GAUGE, TYPE 304 SELF RIMMING SINK, WITH TWO LK-35 DUO STRAINER WITH 1-1/2" TAILPIECE. PROVIDE TAILPIECE WITH 1 1/2" 17 GAUGE CHROME-PLATED SEMI-CAST BRASS P-TRAP WITH CLEANOUT, GRID DRAIN AND WASTE ARM TO WALL WITH ESCUTCHEON, STAINLESS STEEL BRAIDED RISERS WITH LOOSE KEY ANGLE STOPS. SET FIXTURE IN BED OF PUTTY. PROVIDE BEAD OF CLEAR SILICONE AROUND SINK EDGE.
	CHICAGO FAUCET ADA	200-AXKABCP	FAUCET: CHROME PLATED BRASS, 8" ON CENTER BODY WITH DECK MOUNTED FITTING, 9-1/2" L9 SWIVEL SPOUT AND GRID DRAIN, 390 INDEXED HANDLES, QUATURN OPERATING CERAMIC CARTRIDGE AND VANDAL PROOF SOFTFLO AERATOR. PROVIDE WITH HONEYWELL MIXING VALVE AM-1 1070 WITH ASSE 1070 CERTIFICATION. SET OUTLET FOR 105°F. PROVIDE OFF SET GRID STRAINER DRAIN AND TAILPIECE WITH 1 1/4"x1 1/2" 17 GAUGE CHROME-PLATED SEMI-CAST BRASS P-TRAP WITH CLEANOUT AND WASTE ARM TO WALL WITH ESCUTCHEON, RISERS WITH LOOSE KEY ANGLE STOPS. PROVIDE INSULATION AND TRUBRO JACKET ON ALL EXPOSED PIPING BELOW SINK.
UR-1 ADA	TOTO	UT447E	WALL HUNG URINAL (ADA): WHITE VITREOUS CHINA, BACK OUTLET WASHOUT URINAL WITH 3/4" TOP SPUD AND WALL HANGER. MOUNT TOP OF RIM 17" A.F.F. EXISTING WALL HANGER CAN BE REUSED FOR FIXTURES THAT MATCH EXISTING LOCATIONS.
	TOTO	TEU1LA	0.5 GPF FLUSH VALVE. SELF GENERATING HYDRO POWER WITH BATTERY BACKUP, EXPOSED ECOPOWER SENSOR OPERATED FLUSHOMETER VALVES: PISTON VALVE, POSITIVE SEAL, SELF CLEANING DEBRIS SCREEN; FLUSHING SYSTEM TO MAINTAIN TRAP SEAL EVERY 24 HOURS WHEN NOT USED; TOP SPUD; NEUTRAL ROUGH-IN; CHROME PLATED FINISH; 3 YEAR WARRANTY; COMPLYING WITH ANSI/ASSE 1037.
UR-2	TOTO	UT447E	WALL HUNG URINAL (ADA): WHITE VITREOUS CHINA, BACK OUTLET WASHOUT URINAL WITH 3/4" TOP SPUD AND WALL HANGER. MOUNT TOP OF RIM 24" A.F.F. EXISTING WALL HANGER CAN BE REUSED FOR FIXTURES THAT MATCH EXISTING LOCATIONS.
	TOTO	TEU1LA	0.5 GPF FLUSH VALVE. SELF GENERATING HYDRO POWER WITH BATTERY BACKUP, EXPOSED ECOPOWER SENSOR OPERATED FLUSHOMETER VALVES: PISTON VALVE, POSITIVE SEAL, SELF CLEANING DEBRIS SCREEN; FLUSHING SYSTEM TO MAINTAIN TRAP SEAL EVERY 24 HOURS WHEN NOT USED; TOP SPUD; NEUTRAL ROUGH-IN; CHROME PLATED FINISH; 3 YEAR WARRANTY; COMPLYING WITH ANSI/ASSE 1037.
LV-1 ADA	TOTO	LT307#01	ADA LAVATORY: VITREOUS CHINA, 20-1/2" X 18-1/4" RECTANGULAR WALL HUNG LAVATORY, BACK OVERFLOW, CONCEALED HANGER AND DRILLED FOR CONCEALED ARM CARRIER.
	TOTO	TEL115	GOOSE NECK, AUTOMATIC INFRARED SENSOR OPERATED FAUCET WITH ECO POWER SELF GENERATING POWER SYSTEM, CHROME FINISH, ANTI-SCALD, THERMAL MIXING CHAMBER SINGLE SUPPLY OPENING, MAXIMUM DISCHARGE 0.09 GALLONS PER 10 SECOND CYCLE, VANDAL PROOF SPRAY HEAD. PROVIDE WITH WATSS LFe480-10 MIXING VALVE. INSTALL THERMOSTATIC CONTROLLER/MIXING VALVE BELOW COUNTER AND SET FOR 105°F. PROVIDE PERFORATED GRID DRAIN WITH OFFSET AND 1-1/4" TAILPIECE SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED RISERS WITH LOOSE KEY ¼ TURN ANGLE STOPS. INSTALL P-TRAP PARALLEL AND ADJACENT TO WALL. INSULATE EXPOSED SUPPLIES AND DRAIN. COVER ALL INSULATION WITH TRUEBRO PVC JACKET.
FD-1	SIOUX CHIEF	833-Q	SQUARE CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, 1/2" PLUGGED PRIMER TAP, AND 7" x 7" NICKEL BRONZE STRAINER WITH VANDAL-PROOF SCREWS. OUTLET SIZE PER PLAN. PROVIDE WITH SURE SEAL TRAP GUARD.

REMARKS: 1.) REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION HEIGHT OF PLUMBING FIXTURES.

BRANCH FIXTURE SCHEDULE

PLUMBING FIXTURE OR ITEMS	DRAIN-WASTE-SOIL-VENT					COLD WATER		HOT WATER		FIXTURE TYPE SEE SPECIFICATIONS	REMARKS
	TRAP	ARM	VERT	HORIZ	VENT	SUPPLY	BRANCH	SUPPLY	BRANCH		
LAVATORY	1-1/2"	1-1/2"	1-1/2"	2"	1-1/2"	3/8"	1/2"	3/8"	1/2"	LV-1	1
WATER CLOSET (FV)	INT	3"	4"	4"	2"	1"	1-1/4"	-	-	WC-1, WC-2	1
URINAL	INT	2"	2"	2"	1-1/2"	3/4"	1"	-	-	UR-1, UR-2	1
SINK	1-1/2"	1-1/2"	2"	2"	1-1/2"	3/8"	1/2"	3/8"	1/2"	S-1	1
2" FLOOR DRAIN	2"	2"	2"	2"	2"	-	-	-	-	FD-1	

REMARKS: 1.) FIXTURE LV-1, WC-1, UR-1 AND S-1 FOR HANDICAP USE

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	ABBREVIATION	PIPING MATERIAL
SANITARY WASTE AND VENT (ABOVE GRADE)	W OR V	HUBLESS CAST IRON
SANITARY WASTE AND VENT (BELOW GRADE)	W OR V	PVC
POTABLE WATER-2" & SMALLER (ABOVE GRADE)	CW	TYPE M HARD DRAWN COPPER
POTABLE WATER-2" & SMALLER (BELOW GRADE)	CW	TYPE K SOFT ANNEALED COPPER
CONDENSATE/INDIRECT DRAIN-1" & SMALLER	ID	TYPE M HARD DRAWN COPPER
CONDENSATE/INDIRECT DRAIN-1-1/4" LARGER	ID	TYPE DWV HARD DRAWN COPPER
FIRE PROTECTION-3" & LARGER (BELOW GRADE)	FP	DUCTILE IRON
FIRE PROTECTION (ABOVE GRADE)	FP	SCHEDULE 10 OR 30 BLACK STEEL
REFER TO SPECIFICATIONS FOR FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION.		

GENERAL NOTES

A.) PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.

B.) GAS PIPING INSTALLED IN CONCEALED LOCATIONS SHALL HAVE FITTINGS LISTED FOR CONCEALED INSTALLATIONS OR PIPE SHALL BE SLEEVED AND VENTED PER CODE.

C.) COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS. COORDINATION SHALL TAKE PLACE DURING ON SITE MEETINGS AND INCLUDE THE REVIEW OF SHOP DRAWINGS FROM THE FIRE PROTECTION AND SHEET METAL CONTRACTORS.

D.) WASTE/VENT PIPING LOCATED ABOVE CEILING SHALL BE CAST IRON AS SPECIFIED. NO PVC PIPING WITHIN PLENUM IS ALLOWED.

E.) DRAWINGS AREA DIAGRAMMATIC REPRESENTATION OF THE PLUMBING SYSTEM. CONTRACTOR SHALL CONFORM TO THE DRAWINGS INTENT BUT CHANGES IN ROUTING AND LOCATION ARE EXPECTED DUE TO ONSITE JOB CONDITIONS. ADDITIONAL COMPENSATION WILL NOT BE AWARDED FOR SUCH CHANGES AND SHOULD BE ACCOUNTED FOR IN CONTRACTOR'S BID.

F.) CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. WORK CONSISTS OF FURNISHING MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.

G.) WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER CEILINGS OR CONCEALED BEHIND WALLS, CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS. PANEL TO MATCH FINISH.

H.) EXACT NUMBER AND TYPE OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS. VERIFY SUCH LOCATIONS BEFORE PROCEEDING WITH ANY ROUGH-IN WORK.

I.) PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.

J.) NO VENT THROUGH ROOF SHALL TERMINATE CLOSER THAN 10'-0" TO ANY OUTSIDE AIR INTAKE.

K.) ALL EXTERIOR PIPING BELOW GRADE SHALL BE A MINIMUM OF 42" BELOW GRADE OR BURIED BELOW LOCAL FREEZE LINE, WHICHEVER IS GREATER.

L.) PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BLOCK IS BEING LAID. DO NOT CUT BLOCK WALL.

M.) PROVIDE ALL SINKS AND LAVATORIES WITH SLIP JOINT TRAP FITTING FOR CLEANOUT.

N.) UPON COMPLETION OF WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS AND SCRAP.

O.) WHEN CONFLICTS OCCURS IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUALITY OR HIGHER COST SHALL BE INCLUDED.

Q.) TRENCHING, BACKFILL AND CONCRETE WORK ASSOCIATED WITH PLUMBING SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.

R.) ALL FLOOR DRAIN LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT BEFORE ROUGH-IN WORK SHALL BEGIN. CONTRACTOR SHALL COORDINATE FINAL FINISH OF ALL FLOOR DRAINS WITH ARCHITECT.

S.) ALL FLOOR SINKS UNDER EQUIPMENT SHALL BE HALF EXPOSED AND READILY ACCESSIBLE FOR INSPECTION AND CLEANING. INSTALL FLOOR SINKS FLUSH WITH FINISHED FLOOR.

T.) ALL ROOFING PENETRATIONS SHALL BE FLASHED AND COUNTER FLASHED. WORK SHALL BE COORDINATED WITH ROOFING CONTRACTOR.

U.) HANGER RODS AND DEVICES SHALL BE USED FOR ALL PIPING. PROVIDE HANGERS SIZED TO FIT INSULATION WITH GALVANIZED SADDLE AS REQUIRED. MAKE SHIFT DEVICES SHALL NOT BE ACCEPTABLE. SPACE HANGERS TO COMPLY WITH THE ACCEPTABLE SECTION OF THE INTERNATIONAL PLUMBING CODE.

V.) DOMESTIC WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE ADMINISTRATIVE CODE. PROVIDE CERTIFICATION CONFIRMING TESTING AND COMPLIANCE TO THE OWNER.

W.) LICENSES/CODES. THE CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED. ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND INSTALLATION. WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES HAVE JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEEDS THE REQUIREMENTS OF THE REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. WHERE REQUIRED, OBTAIN, PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO THE OWNER. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE LAW. MAINTAIN NECESSARY SIGNAL LIGHTS AND GUARDS FOR THE SAFETY OF THE PUBLIC. THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCATION AUTHORITIES HAVING JURISDICTION. WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCEPTABLE TO THE ARCHITECT/ENGINEER, AND UNIFORM PLUMBING AND MECHANICAL CODES SHALL APPLY TO THIS WORK.

X.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION AND PAYMENT OF ALL FEES, PERMITS AND INSPECTIONS REQUIRED. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENT OF OWNER AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

GENERAL NOTES

Y.) PROTECTION. STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED AND THE CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND. PLUG OR CAP OPEN ENDS OF PIPING SYSTEMS WHILE STORED AND INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS. KEEP THE MANUFACTURER-PROVIDED PROTECTIVE COVERINGS ON FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS DURING CONSTRUCTION. REMOVE COVERINGS AT THE TERMINATION OF THE WORK AND POLISH EXPOSED SURFACES.

Z.) ELECTRONIC DRAWINGS. IN PREPARATION OF SHOP DRAWINGS, CONTRACTOR MAY AT THEIR OPTION, OBTAIN ELECTRONIC DRAWING FILES IN AUTOCAD FORMAT FROM THE ENGINEER FOR A SHIPPING AND HANDLING FEE OF $20 PER SHEET, $50 MINIMUM. CONTRACTOR SHALL CONTACT THE ARCHITECT FOR WRITTEN AUTHORIZATION FORM TO BE SIGNED AND RETURNED.

AA.) FLOOR DRAINS THAT DO NOT SHOW A SLOPING FLOOR ON ARCHITECTURAL DRAWINGS SHALL HAVE A SLOPING DOME 6'-0" IN DIAMETER TOWARDS THE DRAIN.

BB.) CONTRACTOR SHALL CAULK/SEAL EVERY WALL PENETRATION AS SPECIFIED BY ARCHITECT OR ENGINEER. WHERE WALL IS SMOKE/FIRE RATED CONTRACTOR SHALL PROVIDE REQUIRED U.L. FIRE STOP. IF THE ARCHITECTURAL AND MECHANICAL SPECIFICATIONS REGARDING CAULKING/SEALING ARE NOT CONSISTENT CONTRACTOR SHALL USE THE MOST STRINGENT.

CC.) INTENT. BY SUBMITTING A BID THE CONTRACTOR ACCEPTS RESPONSIBILITY TO PROVIDE A COMPLETE PLUMBING SYSTEM BASED ON THE INTENT OF THESE DRAWINGS. THE DRAWINGS SHALL SERVE AS WORKING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT; ARE DIAGRAMMATIC; AND DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM. AS SUCH THE CONTRACTOR SHALL INCLUDE AS A PART OF HIS BID ALL WORK, MATERIALS, LABOR, EQUIPMENT, TOOLS, INSURANCE, TAXES, SERVICES, APPURTANCES, ETC. TO MAKE A COMPLETE OPERATIONAL SYSTEM. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH COMPLETION OF MECHANICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

DD.) CHANGES. CONTRACTOR SHALL NOT MAKE ANY CHANGE TO OR DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER. THE ARCHITECT/ENGINEER WILL NOT BE RESPONSIBLE OR LIABLE FOR ANY CHANGES MADE WITHOUT THE ENGINEER'S KNOWLEDGE AND APPROVAL.

EE.) QUESTIONS. ANY QUESTIONS THAT ARISE IN THE FIELD OR UPON REVIEW OF THE CONTRACT DRAWINGS THE CONTRACTOR SHALL SUBMIT THE QUESTION IN WRITING TO THE ARCHITECT/ENGINEER FOR CLARIFICATION. A PHONE CALL IS PERMISSIBLE BUT MUST BE FOLLOWED BY WITH THE WRITTEN SUBMISSION.

FF.) DOCUMENTS. CONTRACTOR SHALL READ AND BE FAMILIAR WITH THE REQUIREMENTS WITHIN ALL DRAWINGS AND SPECIFICATIONS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CAN NOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET. HE SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE HIMSELF WITH THE TYPE OF CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF HIS CONTRACT. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR, AND INCLUDED ALL COSTS IN HIS PROPOSAL. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION.

GG.) SCHEDULING. COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

HH.) DIMENSIONS. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD OF HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

II.) TRIM. PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

JJ.) DRAWING PRIORITY. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THE MECHANICAL AND ELECTRICAL DRAWINGS IN THE REPRESENTATION OF THE GENERAL CONSTRUCTION WORK.

KK.) SUBSTITUTIONS. CONTRACTOR'S BIDS SHALL BE BASED ON THE MATERIAL MENTIONED OR SPECIFIED, AND ANY PROPOSALS FOR A SUBSTITUTION SHALL BE MADE IN WRITING TO THE ARCHITECT/ ENGINEER ALLOWING ADEQUATE TIME FOR APPROPRIATE ACTION. THE PRODUCTS OF OTHER MANUFACTURERS MAY BE ACCEPTED, IF IN THE OPINION OF THE ARCHITECT/ENGINEER, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED. THE BURDEN OF PROOF OF EQUALITY IS UPON THE PROPOSER.

P.) SHOP DRAWINGS. SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND APPARATUS, AND SUCH OTHER ILLUSTRATIVE MATERIALS AS MAY BE CONSIDERED NECESSARY BY THE ARCHITECT/ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION. BEFORE SUBMITTING SHOP DRAWINGS AND MATERIAL LISTS, VERIFY THAT EQUIPMENT SUBMITTED IS MUTUALLY COMPATIBLE AND SUITABLE FOR THE INTENDED USE AND WILL FIT THE AVAILABLE SPACE AND ALLOW AMPLE ROOM FOR MAINTENANCE. THE ENGINEER'S CHECKING AND SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS; COORDINATION OF ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS. PROCEED WITH THE PROCUREMENT AND INSTALLATION OF EQUIPMENT ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS RELATIVE TO EACH ITEM. CATALOG DATA SHALL BE PROPERLY BOUND, IDENTIFIED, INDEXED AND TABBED. EACH ITEM OR MODEL NUMBER SHALL BE CLEARLY MARKED AND ACCESSORIES INDICATED. LABEL THE CATALOG DATA WITH THE EQUIPMENT IDENTIFICATION ACRONYM OR NUMBER AS USED ON THE DRAWINGS AND INCLUDE PERFORMANCE CURVES, CAPACITIES, SIZES, MATERIALS, FINISHES, WIRING DIAGRAMS AND DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. MARK OUT INAPPLICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF THE ABOVE REQUIREMENTS ARE NOT MET.

PLUMBING SYMBOLS

(heavy line)	NEW PIPING
—CW—	COLD WATER
—HW—	HOT WATER
—HWR—	HOT WATER RECIRC.
—V—	SANITARY VENT ABOVE GND./FLOOR ABOVE
— —V— —	SANITARY VENT BELOW FLOOR
—W—	SANITARY WASTE ABOVE GND./FLOOR ABOVE
— —W— —	SANITARY WASTE BELOW GROUND
—AW—	ACID WASTE
—AV—	ACID VENT
—NG—	NATURAL GAS (PRESSURE INDICATED IN PSI)
—SD—	PRIMARY STORM DRAIN
—OD—	EMERGENCY/SECONDARY STORM DRAIN
—CD—	CONDENSATE DRAIN
	SHUT OFF VALVE
	GAS SHUT-OFF COCK
	CHECK VALVE
	UNION
	PIPE DROP/PIPE RISE
	BOTTOM OUTLET TEE
	TOP OUTLET TEE
WH	WALL HYDRANT
CO	CLEAN OUT
WCO	WALL CLEAN OUT
VTR	SANITARY VENT THRU ROOF
OR FD	FLOOR DRAIN
FCO	FINISHED FLOOR CLEANOUT
	PLUMBING FIXTURE DESIGNATION

STATE OF MISSOURI
DOMINICK V. RUCERETO
NUMBER E-2001004656
3/20/20
REGISTERED PROFESSIONAL ENGINEER

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130 NW MURRAY RD.
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Issue date: 02/01/20

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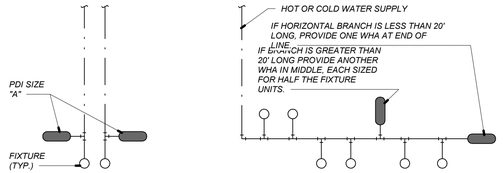
P3



SINGLE FIXTURE

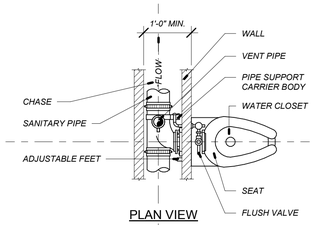
MULTIPLE FIXTURES

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1 1/4"	61-113
E	1 1/2"	114-154
F	2"	155-330

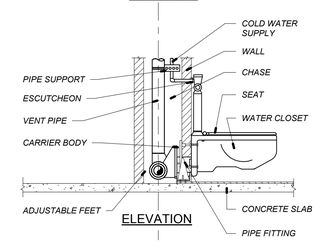
FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

NOTES:
1.) DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010, AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDEDOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS PER THE TABLES SHOWN ABOVE.
2.) INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS.

1 WATER HAMMER ARRESTOR DETAIL
SCALE: NONE



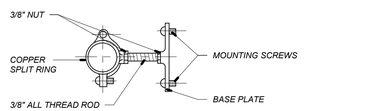
PLAN VIEW



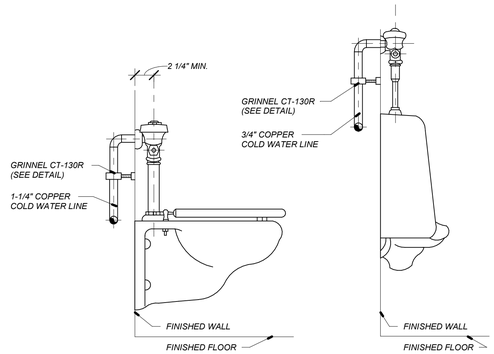
ELEVATION

NOTES:
1.) FOR CONTINUATION OF PIPING, SEE PLANS.

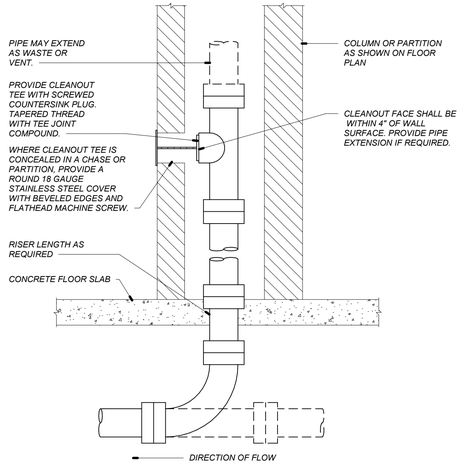
2 WALL HUNG WATER CLOSET DETAIL
SCALE: NONE



GRINNEL CT-130R SUPPORT DETAIL

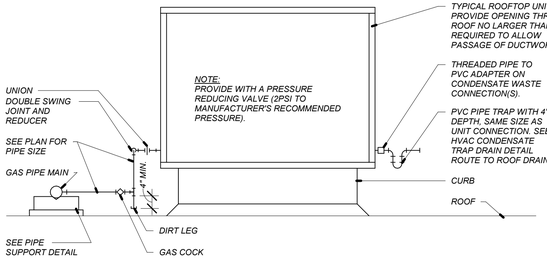


3 FLUSH VALVE BRACKET SUPPORT DETAIL
SCALE: NONE

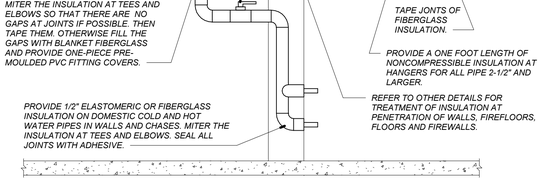


NOTES:
1.) PROVIDE WALL CLEANOUT WHERE SHOWN ON PLANS, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN FOUR FEET OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

4 WALL CLEANOUT DETAIL
SCALE: NONE

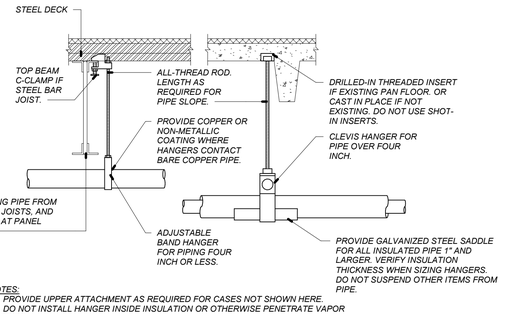


5 RTU CONNECTIONS DETAIL
SCALE: NONE



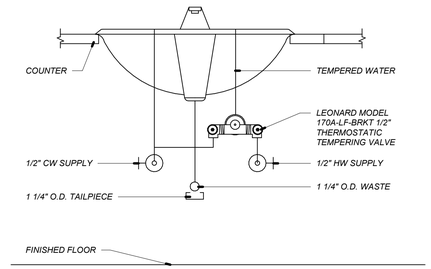
NOTES:
1.) PROVIDE 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL SIZES OF DOMESTIC WATER AND CONDENSATE PIPING. PROVIDE 1" INSULATION ON ALL SIZES OF STORM DRAIN PIPING. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGUARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE INSULATION 1/4" LARGER ON PIPE WITH HEAT TRACING.

6 PIPE INSULATION DETAIL
SCALE: NONE

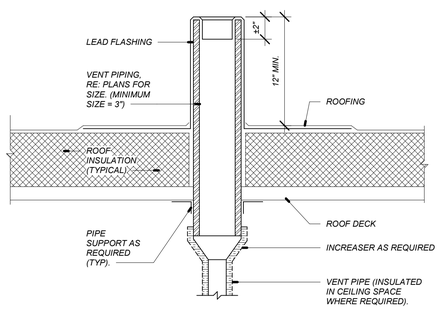


NOTES:
1.) PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE.
2.) DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.
3.) DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES.
4.) TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES.
5.) SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS.
6.) LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE.
7.) PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.
8.) LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS.
9.) ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE.
10) DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS.
11.) REFER TO CODES AND SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.

7 PIPE HANGER DETAIL
SCALE: NONE

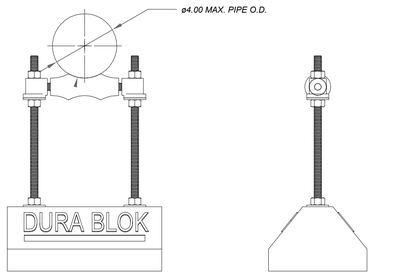


8 LOCAL MIXING VALVE DETAIL
SCALE: NONE



NOTES:
1.) LOCATION OF VENT THROUGH ROOF (VTR) A MINIMUM OF 10' FROM ANY BUILDING OPENINGS, MECHANICAL UNIT INTAKES, RELIEF OR INTAKE HOODS.

9 VENT THRU ROOF DETAIL
SCALE: NONE



- MATERIAL:
  BASE - 100% RECYCLED RUBBER W/ URETHANE BINDER
  LEEDS CREDIT AVAILABLE.
  PIPE ROLLER - CAST IRON, ELECTRO-PLATED
  SOCKETS - MALLEABLE IRON, ELECTRO-PLATED
  THREADED ROD, AXLE, & HARDWARE - STEEL, ELECTRO-PLATED
- UV RESISTANT AND APPROVED FOR MOST ROOFING MATERIAL OR OTHER FLAT SURFACES.
- WT/PC: 6.46 LBS [2.93 KG]
- ULTIMATE LOAD CAPACITY: 200 LBS [.89 KN]

10 ROOF PIPE SUPPORT DETAIL
SCALE: NONE

bgr Consulting Engineers
Ph: 816.842.2800
CERTIFICATE OF AUTHORITY # 2006007202

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DOMINICK L. LUCCHETTO
NUMBER E-2001004658
REGISTERED PROFESSIONAL ENGINEER
12/31/20

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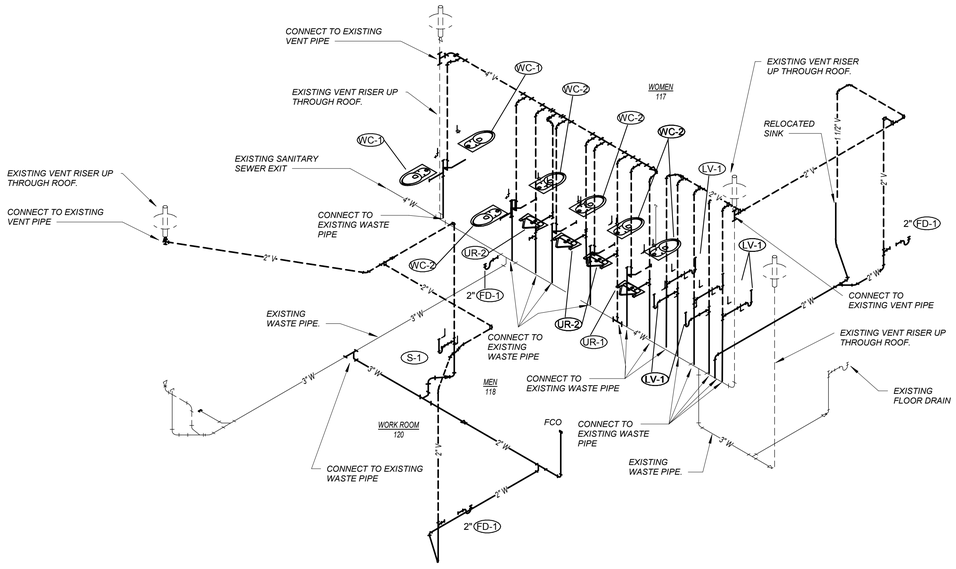
P4



1 PLUMBING RISER

SCALE:

Ph: 816.842.2800
CERTIFICATE OF AUTHORITY
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DOMINICK L. BRUCERETO
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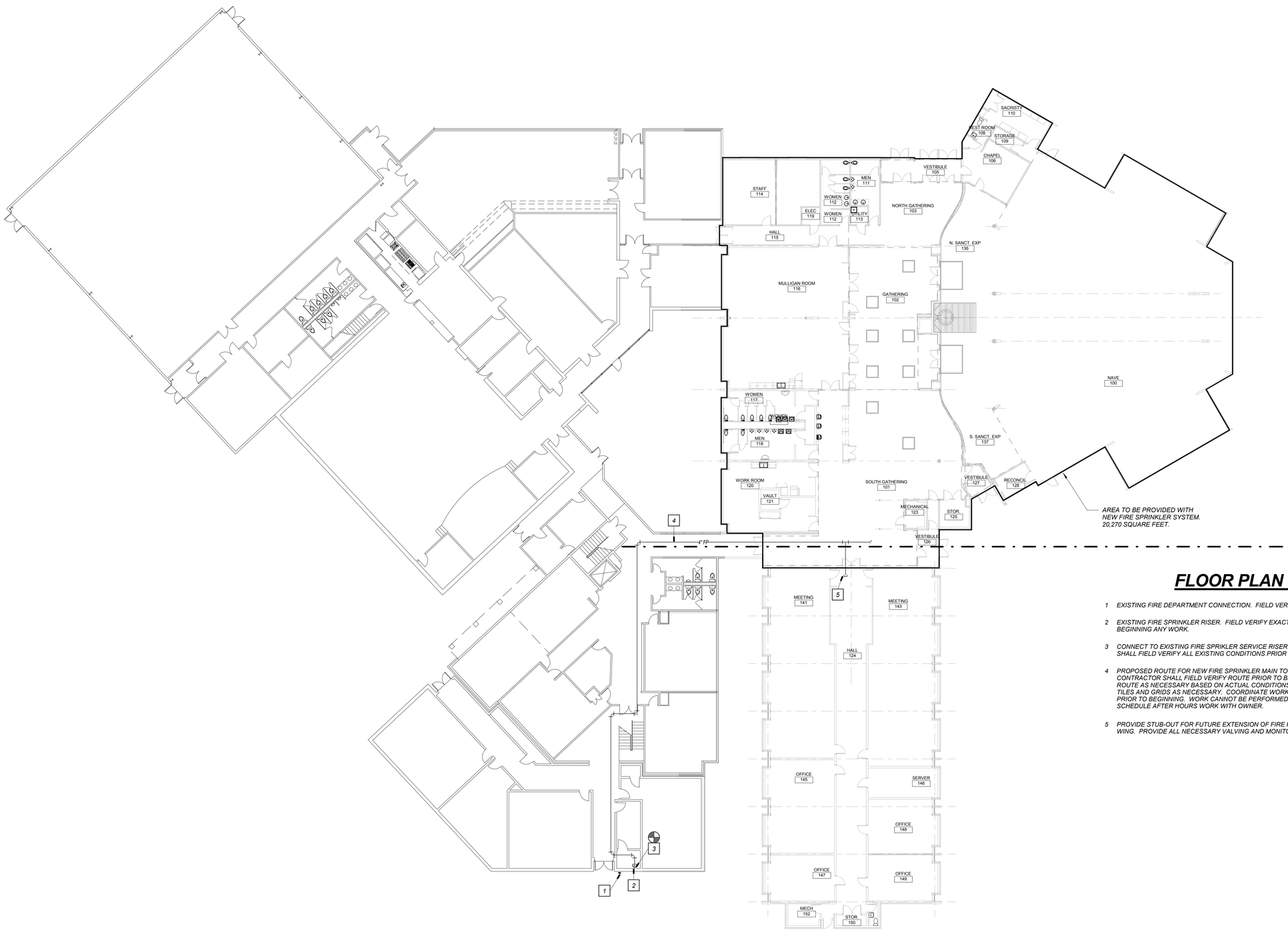
P5



FLOOR PLAN NOTES

1 *EXISTING FIRE DEPARTMENT CONNECTION. FIELD VERIFY EXACT LOCATION.*

2 *EXISTING FIRE SPRINKLER RISER. FIELD VERIFY EXACT LOCATION/CONDITIONS PRIOR TO BEGINNING ANY WORK.*

3 *CONNECT TO EXISTING FIRE SPRIKLER SERVICE RISER AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK.*

4 *PROPOSED ROUTE FOR NEW FIRE SPRINKLER MAIN TO SERVE RENOVATED AREA. CONTRACTOR SHALL FIELD VERIFY ROUTE PRIOR TO BEGINNING ANY WORK. MODIFY ROUTE AS NECESSARY BASED ON ACTUAL CONDITIONS. REMOVE AND REINSTALL CEILING TILES AND GRIDS AS NECESSARY. COORDINATE WORK WITH OWNER AT LEAST ONE WEEK PRIOR TO BEGINNING. WORK CANNOT BE PERFORMED DURING SCHOOL HOURS. SCHEDULE AFTER HOURS WORK WITH OWNER.*

5 *PROVIDE STUB-OUT FOR FUTURE EXTENSION OF FIRE PROTECTION TO SERVE SOUTH WING. PROVIDE ALL NECESSARY VALVING AND MONITORING AS REQUIRED.*

NORTH

1 OVERALL FIRE PROTECTION PLAN

SCALE: 1/16" = 1'-0"

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CERTIFICATE OF AUTHORITY
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STATE OF MISSOURI
DOMINICK L. TRUCCHITO
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12/31/20

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LEE'S SUMMIT, MO

LaTona Architects
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Drawn by:	BGR
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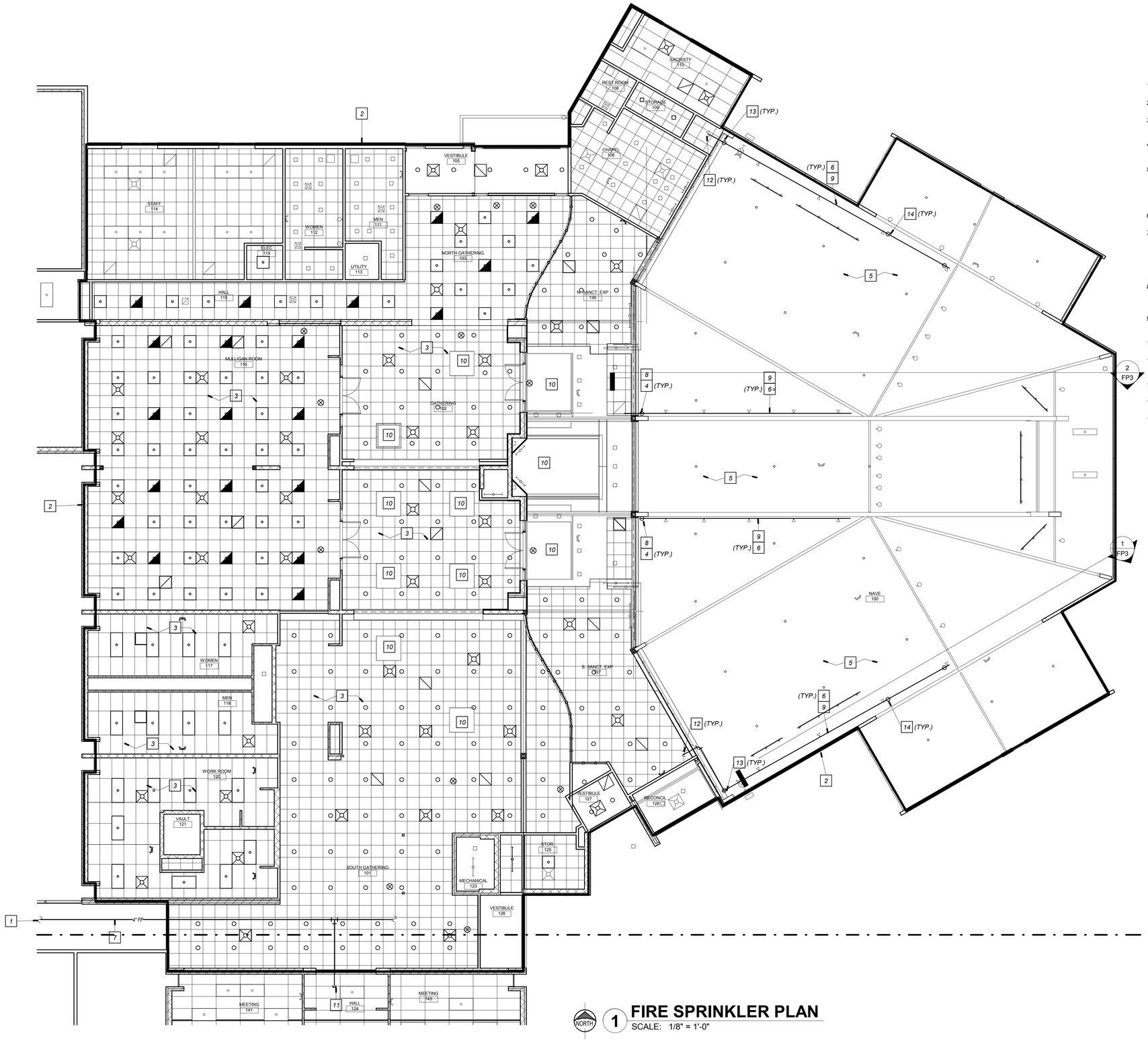
FP 1



1 FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. *REFER TO OVERALL FIRE SPRINKLER PLAN FOR CONTINUATION.*
2. *PROVIDE WET SPRINKLER COVERAGE THROUGHOUT.*
3. *VERY LIMITED CLEARANCE ABOVE CEILING. COORDINATE PIPE LAYOUT WITH DUCTS AND LIGHTS.*
4. *PROPOSED ROUTE FOR EXPOSED PIPE RISER DOWN ADJACENT TO EXISTING COLUMN AND INTO ADJACENT CEILING SPACE.*
5. *PROVIDE WET SPRINKLER COVERAGE THROUGHOUT EXISTING CHURCH. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND HAVE A COORDINATION MEETING WITH ENGINEER/ARCHITECT TO DISCUSS EXPOSED PIPE INSTALLATION PRIOR TO INSTALLING ANY WORK. PIPING SHALL BE PAINTED TO MATCH EXISTING CEILING/STRUCTURE STAIN COLOR.*
6. *PROPOSED PIPE ROUTE ADJACENT TO BEAM. SLOPE PIPE WITH ROOF.*
7. *PROPOSED ROUTE FOR NEW FIRE SPRINKLER MAIN TO SERVE RENOVATED AREA. CONTRACTOR SHALL FIELD VERIFY ROUTE PRIOR TO BEGINNING ANY WORK. MODIFY ROUTE AS NECESSARY BASED ON ACTUAL CONDITIONS. REMOVE AND REINSTALL CEILING TILES AND GRIDS AS NECESSARY. COORDINATE WORK WITH OWNER AT LEAST ONE WEEK PRIOR TO BEGINNING. WORK CANNOT BE PERFORMED DURING SCHOOL HOURS. SCHEDULE AFTER HOURS WORK WITH OWNER.*
8. *PIPE RISERS ARE TO BE 'ZONED' WITHIN BEAM POCKETS TO PREVENT DROPPING BELOW BEAMS. CONSULT STRUCTURAL ENGINEER FOR DIRECTION ON HOW AND WHERE GLUE LAM BEAMS CAN BE CORE DRILLED TO PENETRATE BEAMS.*
9. *FIELD VERIFY EXACT PIPE ROUTE WITH ALL EXISTING CONDITIONS. MODIFY AS NECESSARY.*
10. *SKYLIGHT.*
11. *PROVIDE STUB-OUT FOR FUTURE EXTENSION OF FIRE PROTECTION TO SERVE SOUTH WING. PROVIDE ALL NECESSARY VALVING AND MONITORING AS REQUIRED.*
12. *PROPOSED ROUTE FOR EXPOSED PIPE FROM ADJACENT CEILNG SPACE.*
13. *PROPOSED ROUTE FOR EXPOSED PIPE RISER ADJACENT TO EXISTING GLUE LAM COLUMN.*
14. *PROPOSED ROUTE FOR EXPOSED PIPE DROP ADJACENT TO EXISTING GLUE LAM INTO CHOIR NAVE.*

STATE OF MISSOURI
DOMINICK L. V. RUCCELLO
NUMBER E-2001004658
REGISTERED PROFESSIONAL ENGINEER
12/31/20

OUR LADY OF THE PRESENTATION

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LEE'S SUMMIT, MO

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FP2

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FIRE PROTECTION DESIGN CRITERIA

A.) ***THE REMODELED AREA SHALL BE FULLY SPRINKLED BY EXPANSION OF EXISTING WET SYSTEM. FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED AS DESIGN BUILD. CONTRACTORS ARE RESPONSIBLE TO PROVIDE DESIGN, PERMIT DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER AND COMPLETE CONSTRUCTION. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, BOCA, UBC, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.***

B.) ***CONTRACTOR SHALL COORDINATE WITH NEW REFLECTED CEILING PLAN, NEW DUCTWORK LAYOUT AND LIGHTING LAYOUTS. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE. ALL SPRINKLER LINES SHALL BE CONCEALED, AVOIDING INTERFERENCES WITH LIGHTS, DUCTS, PIPES, ETC... ALL SPRINKLER HEADS ARE TO BE CENTERED IN TILE. ALL PIPING TO BE XL WITH CAST IRON SCREWED FITTINGS.***

C.) ***FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. ALL COORDINATION SHALL TAKE PLACE PRIOR TO INSTALLATION. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH OTHER TRADES, ARCHITECTURAL DETAILS, STRUCTURE, CEILINGS, ETC. CONTRACTOR MUST MEET WITH ARCHITECT PRIOR TO GENERATING DRAWINGS TO DISCUSS ACCEPTABLE PIPE LOCATIONS AND ROUTES.***

D.) ***ALL PIPING IN FINISHED AREAS (I.E. WITH CEILINGS) SHALL BE CONCEALED WITHIN WALLS OR CEILING PLENUMS.***

E.) ***HYDROSTATIC TEST SHALL BE IN ACCORDANCE WITH NFPA-13, SECTION 8-2.2 HYDROSTATIC TEST.***

F.) ***COMPLETE PLANS AND SPECIFICATIONS FOR AUTOMATIC SPRINKLERS AND OTHER FIRE-PROTECTION SYSTEMS SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY UNDERWRITER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.***

G.) ***SPRINKLER CONTRACTOR SHALL COORDINATE HEAD AND PIPING LOCATIONS WITH ALL SUB-CONTRACTORS. INSTALL WITH EQUAL SPACING IN TILES AND PER NFPA 13.***

H.) ***INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.***

I.) ***MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.***

J.) ***INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.***

K.) ***CONTRACTOR SHALL ARRANGE FOR, OBTAIN AND BEAR THE COST OF NECESSARY PERMITS, BONDS AND FEES.***

L.) ***ALL MATERIALS SHALL BE U.L. LISTED AND BEAR THE U.L. LABEL.***

M.) ***PENETRATION THROUGH FIRE RATED ASSEMBLIES, PENETRATIONS FOR PIPES, CONDUITS OR OTHER PURPOSES THROUGH ASSEMBLIES (FLOORS, ROOF, WALLS, PARTITIONS, ETC.) WITH A REQUIRED FIRE STOP MATERIAL. FIRE STOP MATERIAL SHALL BE U.L. LISTED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO MEET OR EXCEED THE FIRE RATING OF THE PENETRATED ASSEMBLY.***

N.) ***PROVIDE DEFLECTOR ON ELECTRICAL EQUIPMENT TO PREVENT WETTING PANELS. SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY ABOVE ELECTRICAL PANELS.***

O.) ***PROVIDE FLUSHING CONNECTION AT END OF SPRINKLER SYSTEM IN ACCESSIBLE LOCATION. ALL SPRINKLER PIPING THAT REQUIRED A CHANGE IN ELEVATIONS DUE TO COORDINATION ROUTING OF PIPING SHALL HAVE A FLUSH CONNECTION AT ALL LOWER ELEVATION. THE SPRINKLER SYSTEM SHALL BE INSTALLED WITH COMPLETE DRAINABLE SYSTEM.***

P.) ***WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUALITY OR HIGHER COST SHALL BE PROVIDED.***

Q.) ***THE INSTALLER SHALL VISIT THE JOB SITE, INSPECT ALL EXISTING CONDITIONS AFFECTING THE WORK. SUBMISSION OF HIS/HER PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.***

R.) ***THE CONTRACTORS IS RESPONSIBLE FOR CHECKING FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.***

S.) ***UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS AND SCRAP.***

T.) ***CONTRACTORS AND SUBCONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CAN NOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.***

U.) ***COORDINATE WITH THE WORK OF OTHER TRADES. PROVIDE RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.***

V.) ***CONTRACTOR SHALL CAULK/SEAL EVERY WALL PENETRATION AS SPECIFIED BY ARCHITECT OR ENGINEER. WHERE WALL IS SMOKE/FIRE RATED CONTRACTOR SHALL PROVIDE REQUIRED U.L. FIRE STOP. IF THE ARCHITECTURAL AND MECHANICAL SPECIFICATIONS REGARDING CAULKING/SEALING ARE NOT CONSISTENT CONTRACTOR SHALL USE THE MOST STRINGENT.***

W.) ***INTENT. BY SUBMITTING A BID THE CONTRACTOR ACCEPTS RESPONSIBILITY TO PROVIDE A COMPLETE DESIGN BUILD FIRE SPRINKLER SYSTEM BASED ON THE ENTIRE SET OF DRAWINGS AND ALL CODES. CONTRACTOR'S DRAWINGS SHALL BE STAMPED BY AN ENGINEER AND SUBMITTED TO THE CITY FOR REVIEW AS A PART OF THIS PERMIT.***

X.) ***THE CONTRACT DRAWINGS DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM. AS SUCH THE CONTRACTOR SHALL INCLUDE AS A PART OF HIS BID ALL WORK, MATERIALS, LABOR, EQUIPMENT, TOOLS, INSURANCE, TAXES, SERVICES, APPURTANCES, ETC. TO MAKE A COMPLETE OPERATIONAL SYSTEM. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH COMPLETION OF WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.***

Y.) ***QUESTIONS. ANY QUESTIONS THAT ARISE IN THE FIELD OR UPON REVIEW OF THE CONTRACT DRAWINGS THE CONTRACTOR SHALL SUBMIT THE QUESTION IN WRITING TO THE ARCHITECT/ENGINEER FOR CLARIFICATION. A PHONE CALL IS PERMISSIBLE BUT MUST BE FOLLOWED BY WITH THE WRITTEN SUBMISSION.***

Z.) ***DOCUMENTS. CONTRACTOR SHALL READ AND BE FAMILIAR WITH THE REQUIREMENTS WITHIN ALL DRAWINGS AND SPECIFICATIONS. HE SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE HIMSELF WITH THE TYPE OF CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF HIS CONTRACT. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR, AND INCLUDED ALL COSTS IN HIS PROPOSAL. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION.***

AA.) ***SCHEDULE. COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.***

BB.) ***DIMENSIONS. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD OF HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.***

CC.) ***TRIM. PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.***

DD.) ***PROTECTION. STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED AND THE CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND. PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED AND INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS. KEEP THE MANUFACTURER-PROVIDED PROTECTIVE COVERINGS ON FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS DURING CONSTRUCTION. REMOVE COVERINGS AT THE TERMINATION OF THE WORK AND POLISH EXPOSED SURFACES.***

EE.) ***LICENSES/CODES. THE CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED. ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND INSTALLATION. WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES HAVE JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEEDS THE REQUIREMENTS OF THE REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. WHERE REQUIRED, OBTAIN, PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO THE OWNER. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE LAW. MAINTAIN NECESSARY SIGNAL LIGHTS AND GUARDS FOR THE SAFETY OF THE PUBLIC. THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCATION AUTHORITIES HAVING JURISDICTION. WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCEPTABLE TO THE ARCHITECT/ENGINEER, AND UNIFORM PLUMBING AND MECHANICAL CODES SHALL APPLY TO THIS WORK.***

FF.) ***CEILINGS. CONTRACTOR SHALL COORDINATE SPRINKLER TYPES WITH ARCHITECTURAL REFLECTED CEILING PLANS.***

GG.) ***SPRINKLER AREAS THAT ARE NOT PROVIDED WITH HEAT AND THEREFORE, SUSCEPTIBLE TO FREEZING SHALL UTILIZE A DRY TYPE SYSTEM.***

FIRE PROTECTION DESIGN

PROVIDE WET PIPE AUTOMATIC SPRINKLERS THROUGHOUT REMODELED AREAS AND IN THE EXISTING CHURCH AS INDICATED ON FIRE PROTECTION PLANS. AREAS SHALL BE CLASSIFIED TO MEET CURRENT CODE REQUIREMENTS. DENSITY SHALL BE INCREASED FOR AREAS REQUIRING GREATER COVERAGE PER CODE. CONTRACTOR IS RESPONSIBLE FOR A DESIGN THAT MEETS THE GUIDELINES SET FORTH BY OWNER'S INSURANCE COMPANY AND NFPA. RE: FIRE PROTECTION DESIGN CRITERIA FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK WITH ALL OTHER TRADES AND ARCHITECTURAL DRAWINGS.

PROVIDE ALL NECESSARY VALVING, ALARMS, BELLS, FLOW SENSORS, ETC. AS NECESSARY TO MAKE NEW CONNECTION TO THE EXISTING FIRE SUPPRESSION SYSTEM IN THE SCHOOL.

NOTE:
CONTRACTOR SHALL MODIFY CLASSIFICATION OF AREA SPECIFIED IF MORE STRINGENT SPRINKLER COVERAGE IS SPECIFIED BY NFPA AND APPLICABLE CODES ON OWNERS INSURANCE.

FIRE SPRINKLER USAGE SCHEDULE

AREA TYPE	SPRINKLER			MANUFACTURER & MODEL	REMARKS
	TYPE (NOTES 1 & 2)	RESPONSE	FINISH		
NO CEILINGS	UPRIGHT PENDENT	QUICK	ROUGH BRASS	VIKING M, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2704	NOTE 3
LAY-IN ACT CEILINGS	SEMI-RECESSED PENDENT	QUICK	CHROME PLATED	VIKING M, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2708	NOTE 3
GYP BOARD CEILINGS	CONCEALER	QUICK	WHITE	VIKING 15765 OR EQUAL	NOTE 3

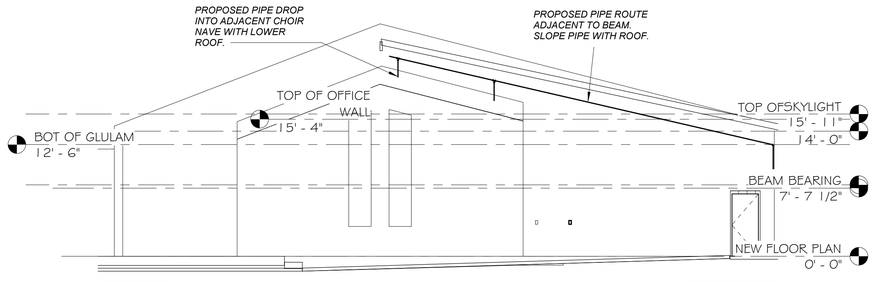
REMARKS: *1.) CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.*
2.) CONTRACTOR TO SUBMIT ALL SPRINKLER TYPE CUT SHEETS FOR REVIEW.
3.) ALL SPRINKLER SHALL BE UL LISTED.

FIRE SPRINKLER MATERIAL LIST

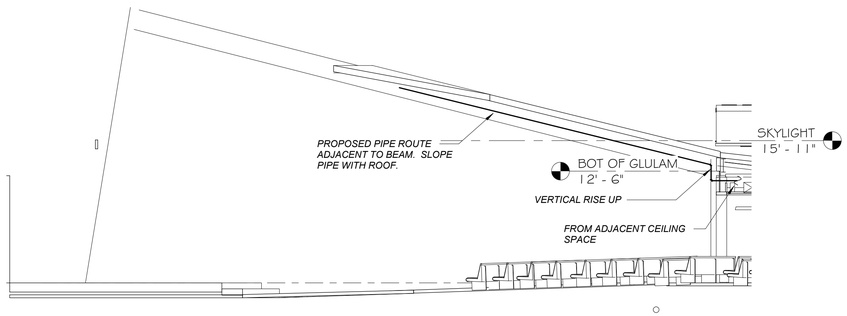
AUTOMATIC DRIP VALVE	VIKING B-1, TYCO AD-1, RELIABLE C	AUTOMATIC DRIP VALVE, 175 PSI WP, BRASS BAR, STAINLESS STEEL SPRING AND RETAINING RING, CLOSING PRESSURE 13.5 PSI WITH INCREASING PRESSURE, OPENING PRESSURE 12.5 PSI WITH DECREASING PRESSURE, 1/2" NPT INLET AND 1/4" NPT DRAIN OUTLET.
ANGLE VALVE	UNITED 126S UL, NIBCO KT-67-UL/T-301-W, KENNEDY 96 SD FPPL	ANGLE VALVE, 2", 175 PSI, BRONZE BODY, INTEGRAL SEAT, SOFT DISC, HANDWHEEL, THREADED, UL.
BUTTERFLY VALVE	GEM 8000FP, TYCO BFV, KENNEDY 01, NIBCO LD3510-8, GD-4765-BN, VICTAULIC 705-W KENNEDY MILWAUKEE BB-SCS OR APPROVED EQUAL	2" TO 12" BUTTERFLY VALVE, 175 PSI WP, LUGGED OR GROOVED TYPE, IRON BODY, ALUMINUM BRONZE OR EPDM COATED DISC, STAINLESS STEM AND SCREWS, EPDM SEAT, INTEGRAL MONITOR SWITCH, RATED FOR DEAD END SERVICE, UL/FM. 1" TO 2-1/2" SLOW CLOSE BUTTERFLY VALVE, 175 PSI WP, BRONZE BODY, TYPE 304 STAINLESS STEEL ELASTOMER COATED DISK, SLOW CLOSE MANUAL OPERATOR WITH INTEGRAL TAMPER SWITCH, GROOVED OR THREADED ENDS. UL/FM.
CHECK VALVE	VIKING D-1/G-1, TYCO CV-2, RELIABLE D OR G, KENNEDY 126A OR 426	2-1/2" TO 12" SWING CHECK VALVE, 175 PSI WP, FLANGED OR GROOVED, IRON BODY, BRONZE MOUNTED, BRONZE SEAT RING AND RUBBER CLAPPER FACING, SWING TYPE, UL/FM.
FIRE DEPARTMENT CONNECTION	GUARDIAN, POTTER-ROEMER, CROKER, ELKHART	SIAMESE FIRE DEPARTMENT CONNECTION, HARD-COATED WITH LOCKING BLIND CAP AND CHAIN. FEMALE NPT OUTLET CONNECTION, POLISHED CHROME PLATE FINISH, BRASS BASE PLATE LABELED "AUTO SPR". COORDINATE ALL REQUIREMENTS WITH THE KCMO FIRE DEPARTMENT.
FLOW SWITCH	SYSTEM SENSOR WFD SERIES, POTTOR ELECTRIC VSR-F	FLOW SWITCH: VANE TYPE FOR USE ON WET PIPE SPRINKLER SYSTEM TO DETECT A MINIMUM FLOW OF 10 GPM. TWO SINGLE POLE DOUBLE THROW SWITCHES WITH PNEUMATIC RETARD-ADJUSTABLE 0-90 SECONDS WITH AUTOMATIC RESET, TAMPER RESISTANT METAL HOUSING. UL/FM.
INSPECTOR'S TEST AND DRAIN VALVE	RELIABLE B, TYCO F350, AGF MODEL 1000	INSPECTOR'S TEST AND DRAIN VALVE WITH INTEGRAL SIGHT GLASS, BALL VALVE WITH INTEGRAL LABELED PLATE SHOWING OFF-TEST-DRAIN POSITIONS. FURNISHED TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, UL.
TAMPER SWITCH	POTTER ELECTRIC OSYSU-1, SYSTEM SENSOR OSY2	MONITOR SWITCH: ELECTRIC, ONE SINGLE POLE, DOUBLE THROW CONTACT, CAST ALUMINUM HOUSING WITH CORROSION RESISTANT PARTS WITH J-BOLTS FOR MOUNTING, UL/FM. VERIFY ELECTRICAL CHARACTERISITICS WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE.
VALVE CABINET	LARSEN'S, POTTER-ROEMER, CROKER	VALVE CABINET: RECESSED STAINLESS STEEL FRAME ABD DOOR WITH CONCEALED OR CONTINUOUS STEEL HINGE (BRASS PIN). CORNER SEAMS WELDED AND GROUND SMOOTH. BLACK VERTICAL DIE CUT LETTERING TO READ SPRINKLER CONTROL VALVE. VERIFY EXACT DIMENSIONS PER MANUFACTURER. UL.

EXPOSED PIPING

EXPOSED PIPING, ACCESSORIES, HANGERS, ETC. SHALL BE PAINTED TO MATCH BEAMS/ROOF DECK. PIPING SHALL BE INSTALLED PARALLEL TO ADJACENT BUILDING ELEMENTS. CONTRACTOR TO HAVE ONSITE MEETING WITH ARCHITECT TO DISCUSS PIPE ROUTING PRIOR TO SUBMITTING SHOP DRAWINGS. OPPORTUNITIES FOR PENETRATING THROUGH BEAMS/COLUMNS SHALL BE PRESENTED TO STRUCTURAL ENGINEER FOR REVIEW.



NORTH **1** **CHOIR NAVE**
SCALE: 1/8" = 1'-0"



NORTH **2** **MAIN CHURCH**
SCALE: 1/8" = 1'-0"

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STATE OF MISSOURI
DOMINICK B. GRUCCIO
NUMBER E-2001004658
REGISTERED PROFESSIONAL ENGINEER
2/2/20

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I 30 NW MURRAY RD.
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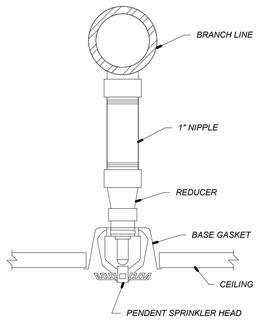
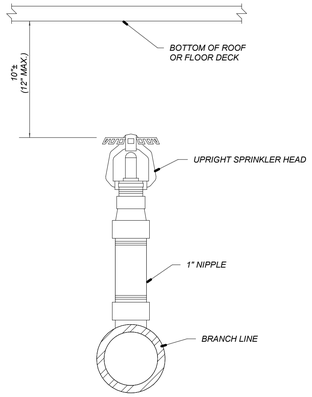
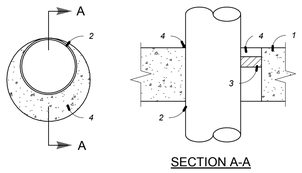


1 RECESSED SPRINKLER HEAD DETAIL
SCALE: NO SCALE



2 UPRIGHT SPRINKLER HEAD DETAIL
SCALE: NO SCALE



SYSTEM NO. 49
F RATINGS - 2 AND 3 HR.
(SEE ITEM 2A) T RATING - O HR.

1.) FLOOR OR WALL ASSEMBLY - MINIMUM 4 1/2" THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM DIAMETER OF CIRCULAR THROUGH OPENING IS 22 1/2". SEE CONCRETE BLOCK (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A.) STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2" FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.

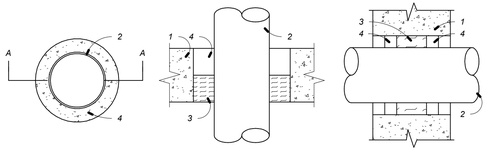
2.) PIPE OR CONDUIT - NOMINAL 20" DIAMETER (OR SMALLER) SCHEDULE 10S (OR HEAVIER) STEEL PIPE, NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT, NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE, NOMINAL 4" DIAMETER (OR SMALLER) CAST IRON PIPE OR NOMINAL 4" DIAMETER (OR SMALLER) STEEL EMT. MAXIMUM ONE PIPE OR CONDUIT PER THROUGH OPENING. MAXIMUM ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS ZERO IN (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

2A.) STEEL VENT DUCT - (NOT SHOWN) - AS AN ALTERNATE TO THE PIPE OR CONDUIT, NOMINAL 4" DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT MAY BE USED IN THROUGH OPENINGS OF FLOOR ASSEMBLIES PROVIDED MAXIMUM ANNULAR SPACE DOES NOT EXCEED 7/8". WHEN STEEL VENT DUCT IS USED, F RATING IS 2 HRS.

3.) PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY- PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL-WOOL BATT OF GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAXIMUM PIPE SIZE IS 10" DIAMETER AND WHEN MAXIMUM ANNULAR SPACE IS 1" OR LESS, A MINIMUM 1" THICKNESS OF TIGHTLY-PACKED CERAMIC FIBER BLANKET OR MINERAL-WOOL BATT PACKING MATERIAL MAY BE RECESSED MINIMUM 1/2" FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF WALL.

MAXIMUM PIPE DIAMETER. (IN.)	*MAXIMUM ANNULAR SPACE (IN.)*	*APPLIED TO FILL MATERIAL (a)*	*MINIMUM CAULK THICKNESS (IN.)*
10	*1*	*BR, CF, GF or MW*	*1/2 (b)*
10	*1*	*CF or MW*	*1/2 (C)*
20	*2 /2*	*BR, CF, GF or MW*	*1 (b)*

(a.) BR = POLYETHYLENE BACKER ROD. CF = CERAMIC FIBER BLANKET. GF = GLASS FIBER INSULATION. MW = MINERAL-WOOL BATT.
(b.) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACE OF WALL.
(c.) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF WALL.
** BEARING THE UL CLASSIFICATION MARKING*



SYSTEM NO. CAJ1012
(FORMERLY SYSTEM NO. 129)
F RATINGS - 1 HR. T RATING - O HR.

1.) FLOOR OR WALL ASSEMBLY - MINIMUM 5" THICK REINFORCED NORMAL WEIGHT (100 - 150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM DIAMETER OF OPENING IS 6". SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.*

2.) THROUGH PENETRANTS - ONE METALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOMINAL ANNULAR SPACE OF 3/4" IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
A. STEEL PIPE - NOMINAL 4" DIAMETER (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
B. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

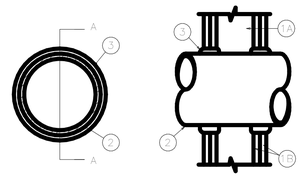
3.) PACKING MATERIAL - MINIMUM 3" THICKNESS OF MINIMUM 4 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE CENTERED IN WALL'S MID-DEPTH AND RECESSED TO ALLOW FOR INSTALLATION OF FILL MATERIAL.

4.) FILL, VOID OR CAVITY MATERIAL - SEALANT OR FOAM - MINIMUM 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. IN WALL, FILL MATERIAL TO BE APPLIED ON EACH SIDE OF PACKING MATERIAL. FOAMED SILICONE TO BE INSTALLED AS DESCRIBED IN THE FILL MATERIAL IRER'S APPLICATION INSTRUCTIONS AT A DEMINIMUM THICK OFNIMUM TO 21 PCF IDENTIFICATIONICKNESS OF FILL MATERIAL IS DEPENDENT FILL MATERIAL, (IN.) FILL MATERIAL AS SHOWN IN THE TABLE BELOW.*

TYPE FS FOAM	1 1/2
TYPE FS SEALANT	
OR FS SEALANT SL	

DOW CORNING CORP. - TYPES FS SEALANT, FS SEALANT SL (FLOOR ONLY) OR FS FOAM
** BEARING THE UL CLASSIFICATION MARKING.*

3 FIRE STOPPING DETAIL
SCALE: NONE



SYSTEM NO. WL1001
(FORMERLY SYSTEM NO. 147)
F RATINGS - 1,2,3 AND 4 HR. (SEE ITEM 2 & 3)
'T' RATINGS - 0,1,2,3 AND 4 HR. (SEE ITEM 3)

1.) WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR 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 (MAX. 2 HR. FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN O.C.
*B. WALLBOARD, GYPSUM *-NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD 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 13-1/2 IN.*

2.) PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

*3.) FILL, VOID OR CAVITY MATERIAL *-CAULK-CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRE-STOP SYSTEM IS DEPENDENT UPON THE TYPE OF SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:*

MAX PIPE OR CONDUIT DIAM IN.	*ANNULAR SPACE IN*	*F RATING HR*	*T RATING OR*
1	*0 TO 3/16*	*1 OR 2*	*0+, 1 OR 2*
1	*1/4 TO 1/2*	*3 OR 4*	*3 OR 4*
4	*0 TO 1/4*	*1 OR 2*	*0*
6	*1/4 TO 1/2*	*3 OR 4*	*0*
12	*3/16 TO 3/8*	*1 OR 2*	*0*

+ WHEN COPPER PIPE IS USED, T RATING IS 0 HR.
MINNESOTA MINING & MFG. CO.-TYPE CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+
** BEARING THE UL CLASSIFICATION MARKING.*

4 FIRE STOPPING DETAIL
SCALE: NO SCALE

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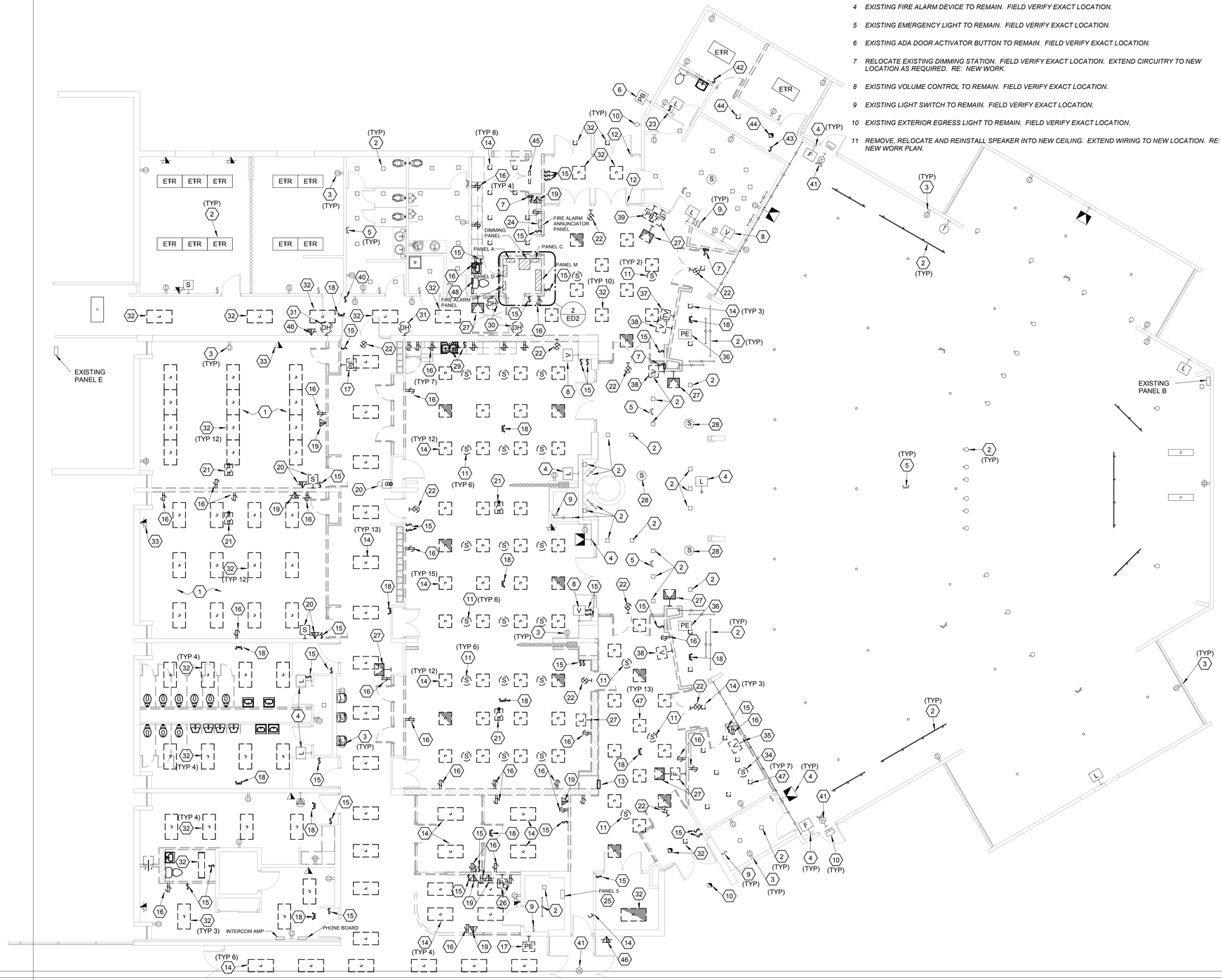


1 **ELECTRICAL DEMOLITION NORTH PLAN**
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *REMOVE ALL EXISTING SURFACE MOUNTED RACEWAYS FOR POWER, DATA, ETC. FIELD VERIFY EXACT LOCATION AND QUANTITY.*

2 *EXISTING LIGHT FIXTURE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

3 *EXISTING RECEPTACLE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING FIRE ALARM DEVICE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

5 *EXISTING EMERGENCY LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.*

6 *EXISTING ADA DOOR ACTIVATOR BUTTON TO REMAIN. FIELD VERIFY EXACT LOCATION.*

7 *RELOCATE EXISTING DIMMING STATION. FIELD VERIFY EXACT LOCATION. EXTEND CIRCUITRY TO NEW LOCATION AS REQUIRED. RE: NEW WORK.*

8 *EXISTING VOLUME CONTROL TO REMAIN. FIELD VERIFY EXACT LOCATION.*

9 *EXISTING LIGHT SWITCH TO REMAIN. FIELD VERIFY EXACT LOCATION.*

10 *EXISTING EXTERIOR EGRESS LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.*

11 *REMOVE, RELOCATE AND REINSTALL SPEAKER INTO NEW CEILING. EXTEND WIRING TO NEW LOCATION. RE: NEW WORK PLAN.*

FLOOR PLAN NOTES

12 *EXISTING MOTORIZED DOOR OPERATOR TO REMAIN.*

13 *REMOVE EXISTING DEFIBRILATOR AND ALL ASSOCIATED WIRING.*

14 *REMOVE EXISTING LIGHT FIXTURE AND ALL ASSOCIATED CIRCUITRY. DISCONNECT AND REMOVE CONTROL WIRING. NEW LIGHTS TO BE CONTROLLED BY NEW MASTER DIMMING STATIONS.*

15 *REMOVE LIGHT SWITCH AND ALL ASSOCIATED WIRING. PROVIDE BLANK COVERPLATE ON OPEN J-BOX AS NECESSARY UNLESS NOTED OTHERWISE.*

16 *REMOVE EXISTING RECEPTACLE AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN POWER TO EXISTING DEVICES DOWNSTREAM.*

17 *REMOVE PUSH TO EXIT BUTTON AND ALL ASSOCIATED WIRING. PROVIDE BLANK COVERPLATE ON ABANDONED JUNCTION BOXES UNLESS NOTED OTHERWISE.*

18 *REMOVE EXISTING EMERGENCY LIGHT AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN POWER TO ANY REMAINING DEVICES DOWNSTREAM.*

19 *REMOVE DATA/PHONE OUTLET AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN.*

20 *REMOVE SCHOOL SPEAKERM/BELL/INTERCOM DEVICE, CALL BUTTON AND ALL ASSOCIATED CONDUIT AND WIRING.*

21 *REMOVE EXISTING CEILING RECEPTACLE AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN POWER TO EXISTING DEVICES DOWNSTREAM.*

22 *REMOVE EXISTING EXIT SIGN AND ALL ASSOCIATED CIRCUITRY.*

23 *RELOCATE EXISTING LIGHT SWITCH TO ACCOMMODATE NEW DOOR LOCATION. EXTEND CIRCUITRY AS REQUIRED. RE: NEW WORK.*

24 *RELOCATE EXISTING FIRE ALARM ANNUNCIATOR PANEL. RE: NEW WORK FOR NEW LOCATION. EXTEND ALL WIRING AS REQUIRED.*

25 *EXISTING ELECTRICAL PANEL TO REMAIN.*

26 *REMOVE EXISTING TV BOX AND RECEPTACLE. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN POWER TO EXISTING DEVICES DOWNSTREAM.*

27 *REMOVE EXISTING FIRE ALARM DEVICE AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN EXISTING DEVICES DOWNSTREAM.*

28 *EXISTING CEILING SPEAKER TO REMAIN. FIELD VERIFY EXACT LOCATION.*

29 *RELOCATE EXISTING UNDER CABINET LIGHT AND ASSOCIATED LIGHT SWTICH. FIELD VERIFY EXACT LOCATION. RE: NEW WORK.*

30 *RELOCATE EXISTING DOOR HOLD OPEN. FIELD VERIFY EXACT LOCATION. EXTEND ALL ASSOCIATED CIRCUITRY TO NEW LOCATION. RE: NEW WORK.*

31 *REMOVE EXISTING DOOR HOLD OPEN AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN POWER TO EXISTING DEVICES DOWNSTREAM.*

32 *REMOVE EXISTING LIGHT FIXTURE. MAINTAIN CIRCUITRY FOR CONNECTION TO NEW LIGHTS IN THIS AREA. NEW LIGHTS TO BE CONTROLLED BY NEW CEILING OCCUPANCY SENSORS.*

33 *EXISTING DATA/PHONE OUTLET TO REMAIN. FIELD VERIFY EXACT LOCATION.*

34 *REMOVE EXISTING CEILING SPEAKER AND ALL ASSOCIATED WIRING. SPLICE CIRCUITRY AS NECESSARY TO MAINTAIN EXISTING DEVICES DOWNSTREAM. FIELD VERIFY EXACT LOCATION.*

35 *REMOVE EXISTING VOLUME CONTROL AND ALL ASSOCIATED WIRING. SPLICE CIRCUITRY AS NECESSARY TO MAINTAIN EXISTING DEVICES DOWNSTREAM. FIELD VERIFY EXACT LOCATION.*

36 *EXISTING SMOKE DETECTOR RESET TO REMAIN. REINSTALL IN NEW CEILING AND CONNECT TO NEW DEVICE. RE: NEW WORK.*

37 *REMOVE EXISTING TV BOX AND RECEPTACLE. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN POWER TO EXISTING DEVICES DOWNSTREAM.*

38 *REMOVE/RELOCATE EXISTING VOLUME CONTROLS. EXTEND ALL ASSOCIATED CONDUIT AND WIRING TO NEW LOCATION AS REQUIRED. RE: NEW WORK.*

39 *RELOCATE PUSH BUTTON FOR POWER DOOR ACTIVATOR. EXTEND WIRING TO NEW LOCATION. RE: NEW WORK.*

40 *REMOVE AND RELOCATE EXISTING LIGHT SWITCH. LIGHT CONTROLS EXISTING CORRIDOR/HALLWAY LIGHTS. EXTEND CIRCUITRY TO NEW LOCATION. RE: NEW WORK.*

41 *EXISTING EXIT SIGN TO REMAIN. FIELD VERIFY EXACT LOCATION.*

42 *REMOVE EXISTING LIGHT SWITCH AND DISCONNECT CONTROL OF EXSITING LIGHT. CONTROL OF THE LIGHT IN THIS ROOM SHALL BE BY EXISTING SWITCH IN ADJACENT ROOM. RE: NEW WORK.*

43 *RELOCATE EXISTING LIGHT SWITCH TO ACCOMMODATE NEW WALL & DOOR. EXTEND CIRCUITRY AS REQUIRED. RE: NEW WORK.*

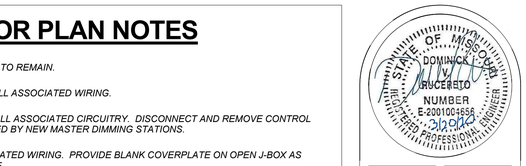
44 *RELOCATE EXISTING LIGHT FIXTURE TO ACCOMMODATE NEW WALL & DOOR. EXTEND CIRCUITRY AS REQUIRED. RE: NEW WORK.*

45 *RELOCATE EXISTING LIGHT FIXTURE. RE: NEW WORK. REMOVE ALL ASSOCIATED CIRCUITRY BACK TO SOURCE.*

46 *REMOVE EXISTING CALL STATION AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN.*

47 *REMOVE EXISTING LIGHT FIXTURE AND ALL ASSOCIATED CIRCUITRY. NEW LIGHTS TO BE POWERED BY EXISTING DIMMING PANEL. DISCONNECT AND REMOVE CONTROL WIRING. NEW LIGHTS TO BE CONTROLLED BY EXISTING DIMMING STATIONS FOR SANCTUARY.*

48 *REMOVE EXISTING LIGHT FIXTURE AND ALL ASSOCIATED CIRCUITRY.*



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Issue date:	02/01/2020
Revised:	

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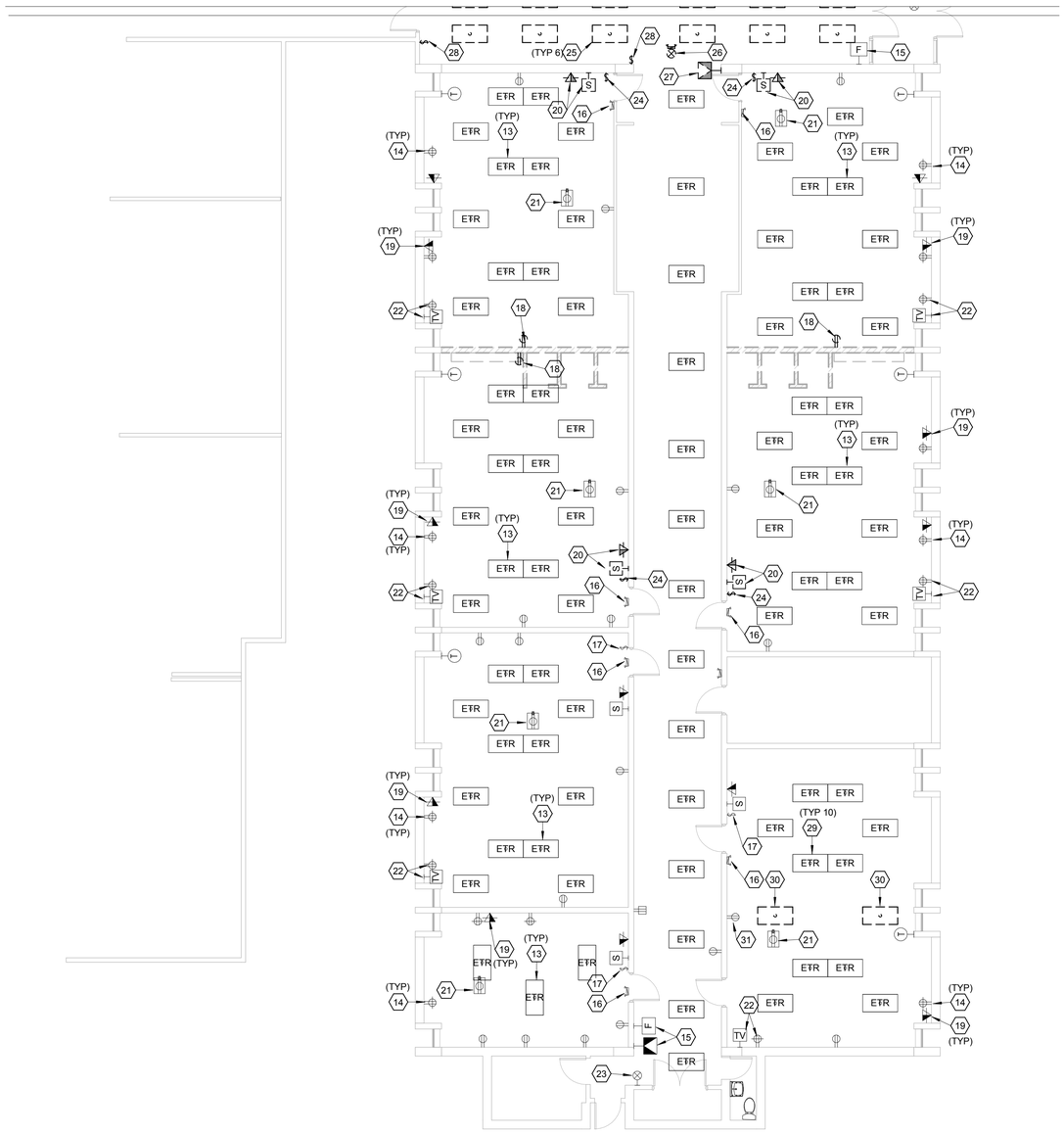
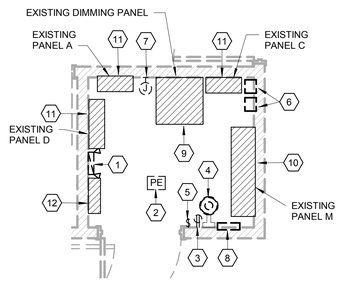


1 ELECTRICAL DEMOLITION SOUTH PLAN

SCALE: 1/8" = 1'-0"



2 ELECTRICAL ROOM DEMO PLAN

SCALE: 3/8" = 1'-0"

FLOOR PLAN NOTES

1 *REMOVE EXISTING EMERGENCY LIGHT AND ALL ASSOICATED CONDUIT AND WIRING BACK TO SOURCE OR LAST DEVICE TO REMAIN.*

2 *REMOVE EXISTING SMOKE DETECTOR. REMOVE ALL ASSOICATED CONDUIT AND WIRING BACK TO SOURCE OR LAST DEVICE TO REMAIN.*

3 *REMOVE EXISTING RECEPTACLE. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE OR LAST DEVICE TO REMAIN.*

4 *REMOVE EXISTING LIGHT AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE OR LAST DEVICE TO REMAIN.*

5 *REMOVE EXISTING LIGHT SWITCH AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.*

6 *RELOCATE EXISTING PARKING LOT TIME CLOCKS. RE: NEW WORK.*

7 *JUNCTION BOX FOR PARKING LOT LIGHTING CONDUIT. DISCONNECT AND REMOVE J-BOX AND PREPARE CIRCUITRY FOR EXTENSION TO NEW ELECTRICAL ROOM. REFER TO NEW WORK AND RISER DIAGRAM.*

8 *RELOCATE EXISTING DIMMING WALL STATION CONTROLLER. EXTEND ALL CIRCUITRY TO NEW LOCATION AS REQUIRED. RE: NEW WORK.*

9 *RELOCATE EXISTING LEHIGH DX2 DIMMING SYSTEM. PROVIDE GUTTER ON EXISTING CONDUITS AND EXTEND TO NEW LOCATION. RE: NEW WORK AND RISER DIAGRAM.*

10 *RELOCATE EXISTING MDP PANEL. PROVIDE GUTTER ON EXISTING ABOVE GROUND CONDUITS AND EXTEND TO NEW LOCATION. INTERCEPT ONE BELOW SLAB CONDUIT BELOW FLOOR AND EXTEND UP IN NEW WALL (PANEL B). ABANDON THE OTHER BELOW GROUND CONDUIT (PANEL E) AND REMOVE FEEDERS. PANEL TO BE REFED FROM OVERHEARD. RE: NEW WORK AND RISER DIAGRAM.*

11 *RELOCATE EXISTING PANELBOARD. PROVIDE GUTTER ON EXISTING CONDUITS IN CEILING PLENUM AND EXTEND TO NEW LOCATION. RE: NEW WORK AND RISER DIAGRAM.*

12 *RELOCATE EXISTING FIRE ALARM EXTENDER PANEL. EXTEND EXISTING CONDUITS AND WIRE TO NEW LOCATION AS REQUIRED. RE: NEW WORK AND RISER DIAGRAM.*

13 *EXISTING LIGHT FIXTURE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

14 *EXISTING RECEPTACLE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

15 *EXISTING FIRE ALARM DEVICE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

16 *EXISTING EMERGENCY LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.*

17 *EXISTING LIGHT SWITCH TO REMAIN. FIELD VERIFY EXACT LOCATION.*

18 *REMOVE EXISTING RECEPTACLE AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO LAST DEVICE TO REMAIN. SPLICE CIRCUIT IF NECESSARY TO MAINTAIN POWER TO EXISTING DEVICES DOWNSTREAM.*

19 *EXISTING DATA/PHONE OUTLET BOX AND ALL ASSOCIATED WIRING TO REMAIN. FIELD VERIFY EXACT LOCATION.*

20 *REMOVE SCHOOL SPEAKERM/BELL/INTERCOM DEVICE, CALL BUTTON AND ALL ASSOCIATED CONDUIT AND WIRING.*

21 *EXISTING CEILING RECEPTACLE FOR SMART BOARD TO REMAIN. FIELD VERIFY EXACT LOCATION.*

22 *EXISTING TV BOX AND RECEPTACLE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

23 *EXISTING EXIT SIGN TO REMAIN. FIELD VERIFY EXACT LOCATION.*

24 *REMOVE EXISTING LIGHT SWITCH MAINTAIN J-BOX FOR INSTALLATION OF NEW 3-WAY SWITCH. NEW SWITCH TO WORK IN CONJUNCTION WITH NEW SWITCH IN ADJACENT ROOM TO CONTROL ALL LIGHTS IN THE LARGER COMBINED ROOM. RE: NEW WORK.*

25 *REMOVE EXISTING LIGHT FIXTURE AND ALL ASSOCIATED CIRCUITRY. DISCONNECT AND REMOVE CONTROL WIRING. NEW LIGHTS TO BE CONTROLLED BY NEW MASTER DIMMING STATIONS.*

26 *REMOVE EXISTING EXIT SIGN AND ALL ASSOCIATED CIRCUITRY.*

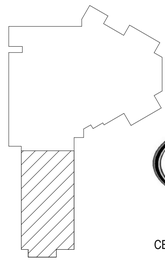
27 *RELOCATE EXISTING FIRE ALARM DEVICE. EXTEND WIRING TO NEW LOCATION. RE: NEW WORK.*

28 *REMOVE LIGHT SWITCH AND ALL ASSOCIATED WIRING. PROVIDE BLANK COVERPLATE ON OPEN J-BOX AS NECESSARY UNLESS NOTED OTHERWISE.*

29 *EXISTING LIGHT FIXTURE TO REMAIN. FIELD VERIFY EXACT LOCATION. SPLIT LIGHTING CONTROLS SO THAT LIGHTS WILL BE CONTROLLED BY TWO SEPARATE SWITCHES AFTER CONSTRCUTION OF NEW WALL. RE: NEW WORK.*

30 *RELOCATE EXISTING LIGHT FIXTURE AS NECESSARY TO ACCOMMODATE NEW WALL CONSTRUCTION. FIELD VERIFY EXACT LOCATION. DISCONNECT CONTROLS SO THAT LIGHTS WILL BE CONTROLLED BY NEW LIGHTS SWITCH. RE: NEW WORK.*

31 *RELOCATE EXISTING RECEPTACLE AS NECESSARY TO ACCOMMODATE INSTALLATION OF NEW WALL.*



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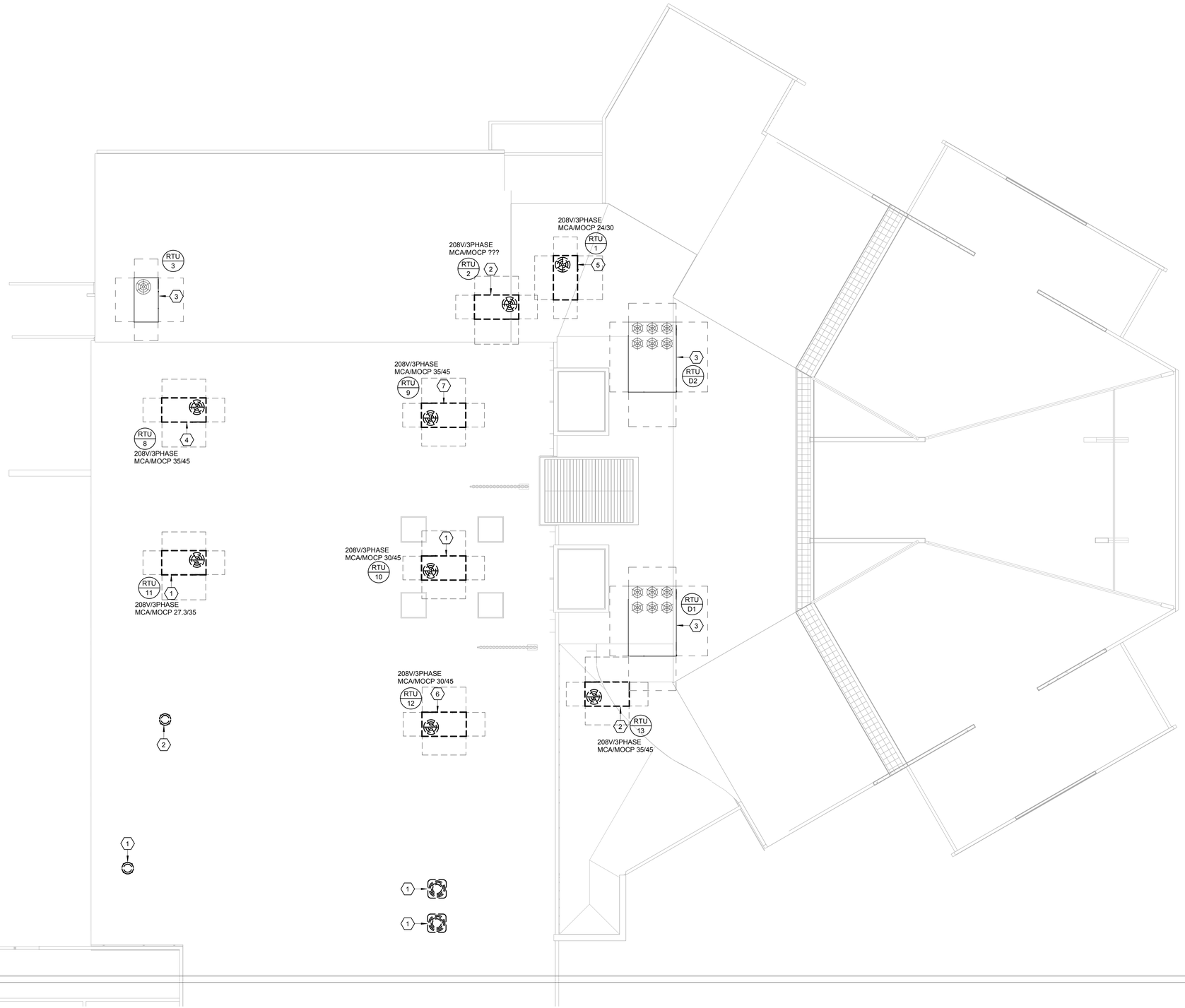

NORTH

1 ELECTRICAL ROOF PLAN DEMOLITION

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *DISCONNECT DEMOLISHED MECHANICAL UNIT. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.*

2 *DISCONNECT DEMOLISHED MECHANICAL UNIT. EXISTING POWER CONNECTION TO BE REUSED FOR NEW UNIT TO BE INSTALLED IN SAME LOCATION. MAINTAIN ALL CONDUIT AND WIRING FOR CONNECTION TO NEW UNIT. MODIFY AS NECESSARY. RE: NEW WORK PLAN. COORDINATE WORK WITH MECHANICAL CONTRACTOR.*

3 *EXISTING MECHANICAL UNIT TO REMAIN. NO WORK.*

4 *DISCONNECT DEMOLISHED MECHANICAL UNIT. VERIFY EXISTING WIRE SIZE IS ADEQUATE AND CAN BE REUSED FOR NEW UNIT MOCP (50A). IF SO, MAINTAIN ALL CONDUIT AND WIRING FOR CONNECTION TO NEW UNIT TO BE INSTALLED IN SAME LOCATION. EXISTING BREAKER AT SOURCE TO BE REUSED. MODIFY CIRCUITRY AS NECESSARY TO MAKE CONNECTION. IF WIRING DEEMED NOT ADEQUATE, REMOVE AND PREP FOR INSTALLATION OF NEW CONDUCTORS. RE: NEW WORK PLAN. COORDINATE WORK WITH MECHANICAL CONTRACTOR.*

5 *DISCONNECT DEMOLISHED MECHANICAL UNIT. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE AND REPLACE BREAKER TO POWER NEW LARGER UNIT. EXISTING WIRING AND CONDUIT CAN BE REUSED IF ADEQUATELY SIZED (45A). RE: NEW WORK PLAN. COORDINATE WORK WITH MECHANICAL CONTRACTOR.*

6 *DISCONNECT DEMOLISHED MECHANICAL UNIT. EXISTING POWER CONNECTION TO BE REUSED FOR NEW UNIT TO BE INSTALLED IN A NEW LOCATION. EXTEND ALL CONDUIT AND WIRING TO NEW LOCATION AS NECESSARY. RE: NEW WORK PLAN. COORDINATE WORK WITH MECHANICAL CONTRACTOR.*

7 *DISCONNECT DEMOLISHED MECHANICAL UNIT. VERIFY EXISTING WIRE SIZE IS ADEQUATE AND CAN BE REUSED FOR NEW UNIT MOCP (50A). IF SO, MAINTAIN ALL CONDUIT AND WIRING FOR CONNECTION TO NEW UNIT TO BE INSTALLED IN NEW LOCATION. EXISTING BREAKER TO BE REUSED. EXTEND ALL CONDUIT AND WIRING TO NEW LOCATION AS NECESSARY. MODIFY CIRCUITRY AS NECESSARY. IF WIRE SIZE IS DEEMED INADEQUATE, REMOVE AND PREP FOR INSTALLATION OF NEW CONDUCTORS. RE: NEW WORK PLAN. COORDINATE WORK WITH MECHANICAL CONTRACTOR.*

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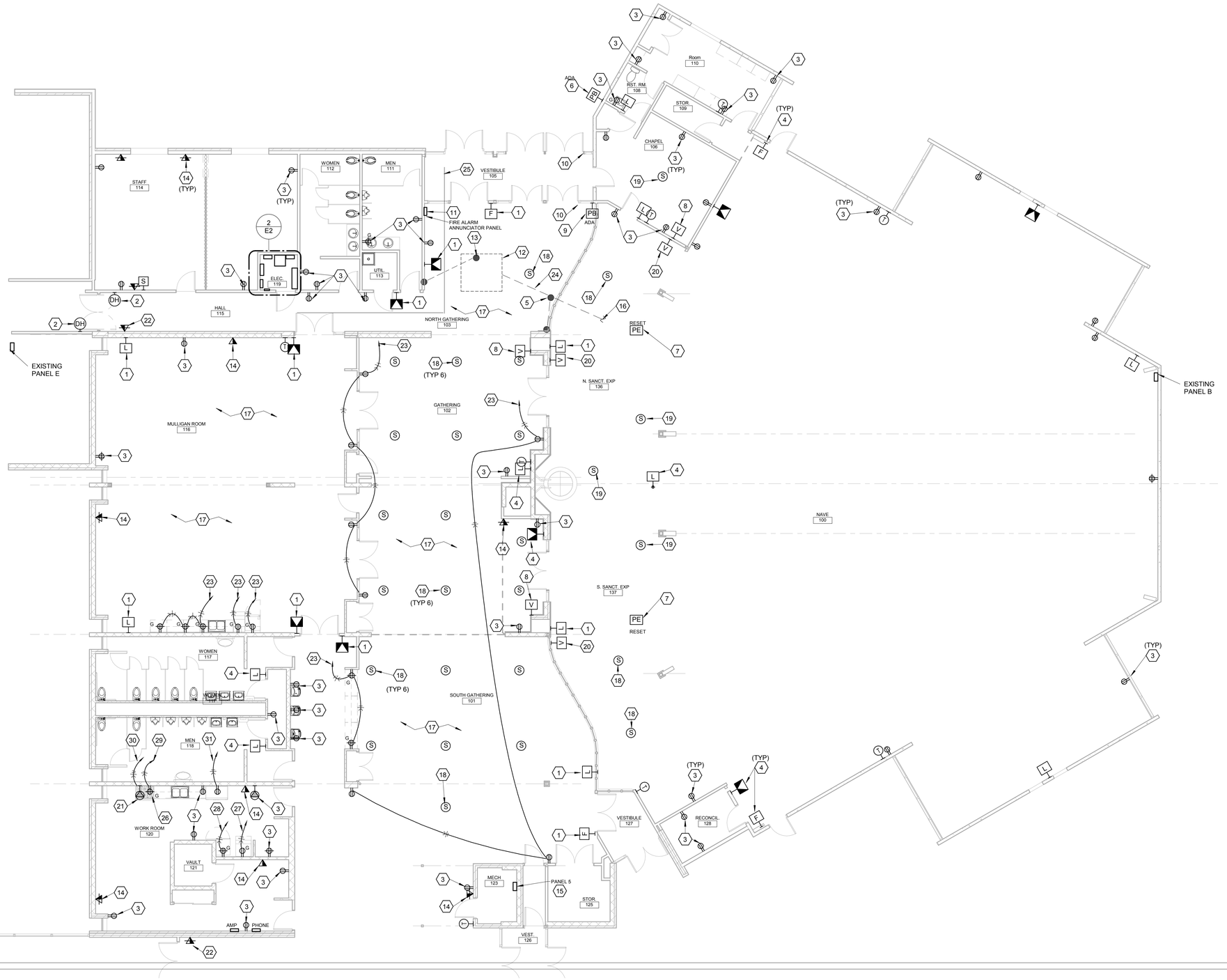

FLOOR PLAN NOTES

1 *NEW FIRE ALARM DEVICE TO BE INSTALLED BY THE FIRE ALARM CONTRACTOR. COORDINATE WITH THE FIRE ALARM CONTRATOR TO PROVIDE ROUGH-IN AND CIRCUIT PATH TO THE RELOCATED FIRE ALARM EXTENDER PANEL.*

2 *RELOCATED DOOR HOLD OPEN. EXTEND ALL ASSOCIATED CIRCUITRY TO NEW LOCATION AS REQUIRED. COORDINATE WORK WITH EXISTING FIRE ALARM AND FIRE ALARM CONTRACTOR.*

3 *EXISTING RECEPTACLE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING FIRE ALARM DEVICE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

5 *INTERCEPT EXISTING BELOW FLOOR CONDUIT TO EXISTING PANEL B AND EXTEND AS NECESSAR TO NEW WALL. SAWCUT FLOOR SLAB AS REQUIRED. ROUTE UP WITHIN WALL/CHASE TO ABOVE CEILING AND TERMINATE IN RELOCATED PANEL M. 2"C. (4) #3/0. RE: RISER DIAGRAM.*

6 *EXISTING ADA DOOR ACTIVATOR BUTTON TO REMAIN. FIELD VERIFY EXACT LOCATION.*

7 *EXISTING SMOKE DETECTOR RESET TO REMAIN. REINSTALL IN NEW CEILING AND CONNECT TO NEW DEVICE. RE: NEW WORK.*

8 *EXISTING VOLUME CONTROL TO REMAIN. FIELD VERIFY EXACT LOCATION. RECONNECT CONTROLLER TO ASSOCIATED RELOCATED SPEAKERS AS NECESSARY. COORDINATE ZONING WITH OWNER.*

9 *RELOCATED PUSH BUTTON FOR EXISTING POWER DOOR ACTIVATOR. EXTEND WIRING TO NEW LOCATION AS NECESSARY.*

10 *EXISTING MOTORIZED DOOR OPERATOR TO REMAIN.*

11 *RELOCATED EXISTING FIRE ALARM ANNUNCIATOR PANEL. EXTEND ALL WIRING AS REQUIRED TO NEW LOCATION. COORDINATE ALL WORK WITH EXISTING FIRE ALARM SYSTEM AND FIRE ALARM CONTRACTOR.*

12 *INTERCEPT EXISTING EXISTING CONDUITS MADE AVAILABLE DUE TO DEMOLITION AND EXTEND TO NEW ELECTRICAL ROOM. PROVIDE ALL NECESSARY GUTTERS AND JUNCTION BOXES. RE: RISER DIAGRAM.*

13 *INTERCEPT EXISTING BELOW FLOOR CONDUIT TO EXISTING PARKING LOT LIGHTS. SAWCUT FLOOR SLAB AS REQUIRED. ROUTE UP WITHIN WALL/CHASE TO ABOVE CEILING AND TERMINATE IN RELOCATED PANEL C. 1"C. RE: RISER DIAGRAM.*

14 *EXISTING DATA/PHONE OUTLET TO REMAIN. FIELD VERIFY EXACT LOCATION.*

15 *EXISTING ELECTRICAL PANEL TO REMAIN.*

16 *APPROXIMATE ROUTE OF EXISTING CONDUIT BELOW SLAB FOR EXISTING PANEL B. MAINTAIN FOR NEW PATH UP IN WALL AND SPLICE ABOVE CEILING.*

17 *NEW DEVICES SHOWN TO BE INSTALLED ON EXISTING MASONRY WALLS SHALL BE INSTALLED USING WIREMOLD #V500 SURFACE MOUNTED RACEWAY TO CONCEAL WIRES. PAINT RACEWAY TO MATCH THE SURROUNDING SURFACE AS CLOSE AS POSSIBLE. DEVICES SHOWN TO BE INSTALLED ON EXISTING GYP BOARD WALLS SHALL USE CONCEALED BOXES, RACEWAYS AND WIRING.*

18 *RELOCATED SPEAKER. REINSTALL SPEAKER INTO NEW CEILING. EXTEND WIRING TO NEW LOCATION AS REQUIRED. COORDINATE ZONING WITH OWNER.*

19 *EXISTING CEILING SPEAKER TO REMAIN. FIELD VERIFY EXACT LOCATION.*

20 *RELOCATE VOLUME CONTROLS. EXTEND ALL ASSOCIATED CONDUIT AND WIRING TO NEW LOCATION AS REQUIRED. COORDINATE SPEAKER CONTROL AND ZONING WITH OWNER PRIOR TO INSTALLING.*

21 *PROVIDE AND INSTALL RECEPTACLE FOR RANGE/OVEN. COORDINATE PLUG TYPE WITH EQUIPMENT PRIOR TO ROUG IN. TERMINATE ON NEW 40A BREAKER IN AVAILABLE SPACE IN PANEL A OR C. IF NO SPACE IS AVAILABLE AFTER DEMOLITION NOTIFY ARCHITECT/ENGINEER.*

22 *PROVIDE ROUGH-IN FOR NEW CALL BUTTON AND INTERCOM FOR ACCESS. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH INSTALLER PRIOR TO ROUGH-IN.*

23 *TERMINATE ON SPARE BREAKER IN PANEL A OR C. IF NO SPARE BREAKER IS AVAILABLE PROVIDE NEW 20A BREAKER IN EXISTING SPACE.*

24 *PORTION OF EXISTING CONDUIT BELOW FLOOR TO BE ABANDONED IN PLACE.*

25 *PROVIDE 3/4" CONDUIT FOR FUTURE ENTRY LIGHTING.*

26 *PROVIDE INSTALL OUTLET FOR RANGE HOOD. COORDINATE ROUGH-IN LOCATION AND INSTALLATION REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLING.*

27 *TERMINATE ICE MAKER CIRCUIT ON NEW 15A BREAKER IN AVAILABLE SPACE IN PANEL A OR C. IF NO SPACE IS AVAILABLE AFTER DEMOLITION NOTIFY ARCHITECT/ENGINEER.*

28 *TERMINATE MICROWAVE CIRCUIT ON SPARE 20A BREAKER IN AVAILABLE SPACE IN PANEL A OR C. IF NO SPARE IS AVAILABLE INSTALL NEW BREKAER IN AVAILABLE SPACE. IF NO SPACE IS AVAILABLE AFTER DEMOLITION NOTIFY ARCHITECT/ENGINEER.*

29 *TERMINATE RANGE HOOD CIRCUIT ON SPARE 20A BREAKER IN AVAILABLE SPACE IN PANEL A OR C. IF NO SPARE IS AVAILABLE INSTALL NEW BREKAER IN AVAILABLE SPACE. IF NO SPACE IS AVAILABLE AFTER DEMOLITION NOTIFY ARCHITECT/ENGINEER.*

30 *HOMERUN TO PANEL WITH 3#8 AND 1#10 GROUND WIRE IN A 3/4"C.*

31 *TERMINATE REFRIGERATOR CIRCUIT ON SPARE 20A BREAKER IN AVAILABLE SPACE IN PANEL A OR C. IF NO SPARE IS AVAILABLE INSTALL NEW BREKAER IN AVAILABLE SPACE. IF NO SPACE IS AVAILABLE AFTER DEMOLITION NOTIFY ARCHITECT/ENGINEER.*

NORTH

1 POWER PLAN - NORTH

SCALE: 1/8" = 1'-0"

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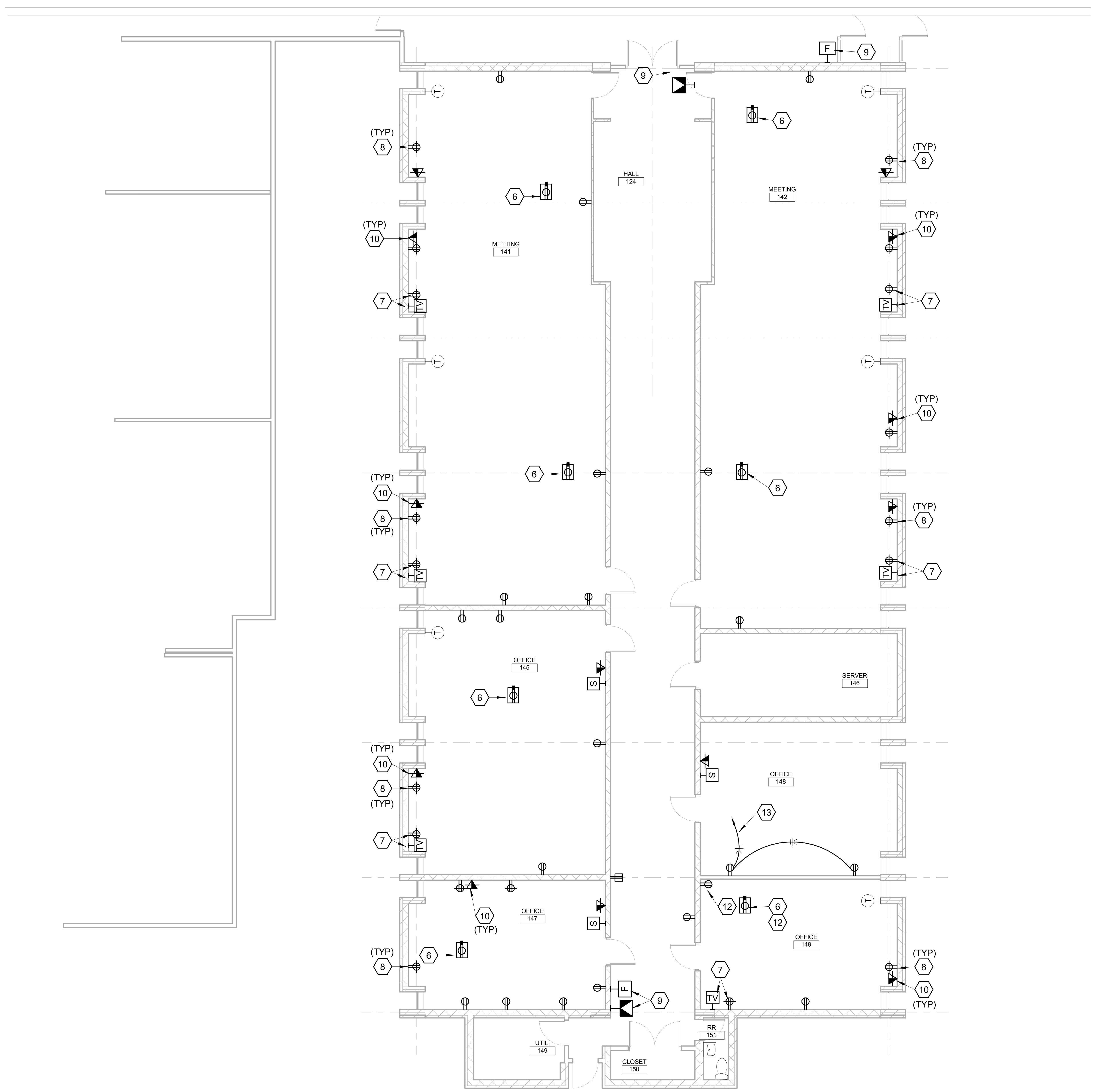


1 POWER PLAN SOUTH

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 RELOCATED EXISTING PARKING LOT TIME CLOCKS. EXTEND CIRCUITRY AND REWIRE AS REQUIRED.

2 RELOCATED LEHIGH DX2 DIMMING SYSTEM. EXTEND ALL EXISTING CONDUITS TO THIS LOCATION AS REQUIRED. PROVIDE GUTTERS AND JUNCTION BOXES AS REQUIRED. RE: RISER DIAGRAM.

3 RELOCATED PANELBOARD. EXTEND ALL EXISTING CONDUITS TO THIS LOCATION AS REQUIRED. PROVIDE GUTTERS AND JUNCTION BOXES AS REQUIRED. RE: RISER DIAGRAM.

4 RELOCATED MDP PANEL. EXTEND ALL EXISTING CONDUITS TO THIS LOCATION AS REQUIRED. PROVIDE GUTTERS AND JUNCTION BOXES AS REQUIRED. EXTEND NEW FEEDERS TO PANELS B & E. E TO BE OVERHEAD. B TO BE OVERHEAD TO NEW WALL WHERE EXISTING FEEDERS CAN BE SPLICED ABOVE CEILING. REUSE WIRING AS POSSIBLE. RE: RISER DIAGRAM.

5 RELOCATED FIRE ALARM EXTENDER PANEL. EXTEND EXISTING CONDUITS AND WIRE TO THIS LOCATION AS REQUIRED. POWER FROM PANEL A. RE: RISER DIAGRAM.

6 EXISTING CEILING RECEPTACLE FOR SMART BOARD TO REMAIN. FIELD VERIFY EXACT LOCATION.

7 EXISTING TV BOX AND RECEPTACLE TO REMAIN. FIELD VERIFY EXACT LOCATION.

8 EXISTING RECEPTACLE TO REMAIN. FIELD VERIFY EXACT LOCATION.

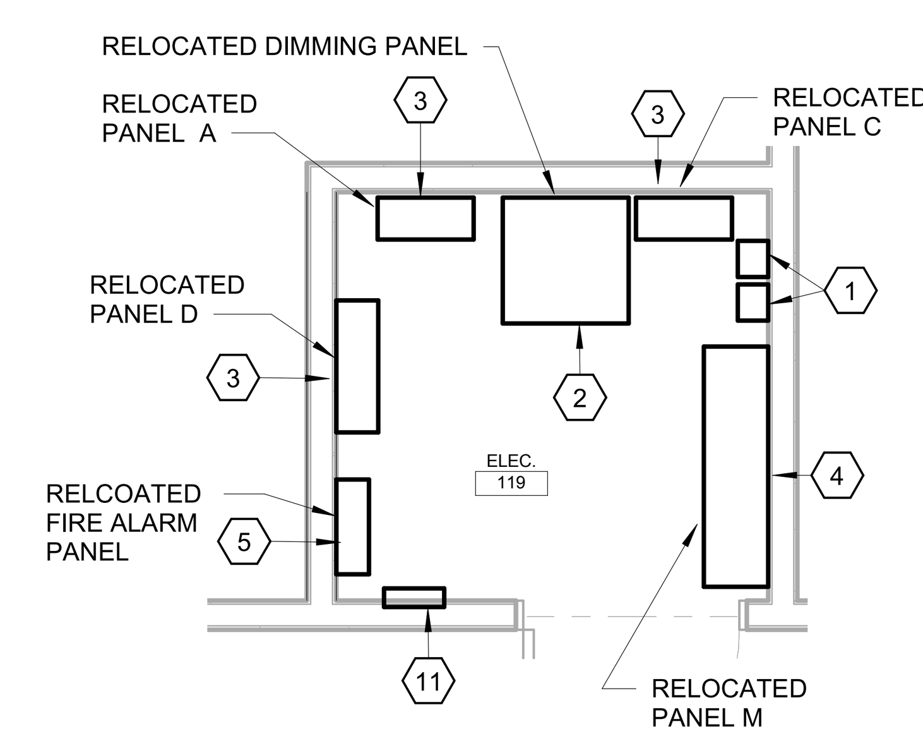
9 EXISTING FIRE ALARM DEVICE TO REMAIN. FIELD VERIFY EXACT LOCATION.

10 EXISTING DATA/PHONE OUTLET BOX AND ALL ASSOCIATED WIRING TO REMAIN. FIELD VERIFY EXACT LOCATION.

11 RELOCATED DIMMING WALL STATION CONTROLLER. EXTEND CIRCUITRY TO NEW LOCATION AS REQUIRED.

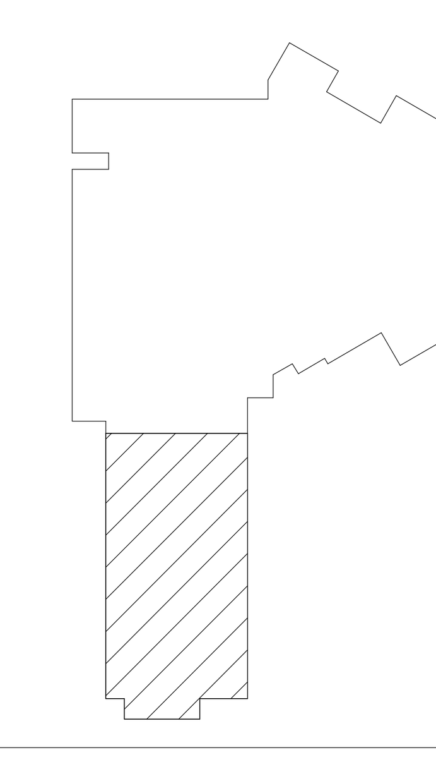
12 RELOCATED RECEPTACLE IF NECESSARY TO ACCOMMODATE INSTALLATION OF NEW WALL.

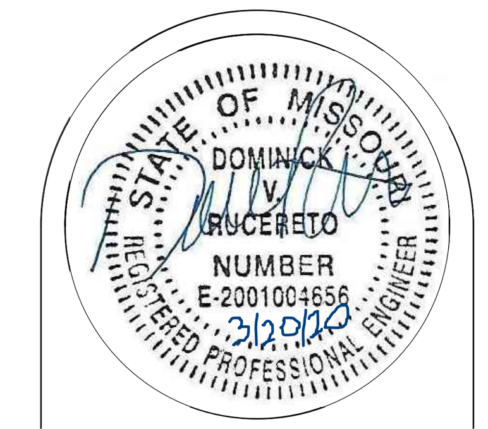
13 TERMINATE ON SPARE BREAKER IN PANEL 5. IF NO SPARE BREAKER IS AVAILABLE PROVIDE NEW 20A BREAKER IN EXISTING SPACE.



2 NEW ELECTRICAL ROOM PLAN

SCALE: 3/8" = 1'-0"





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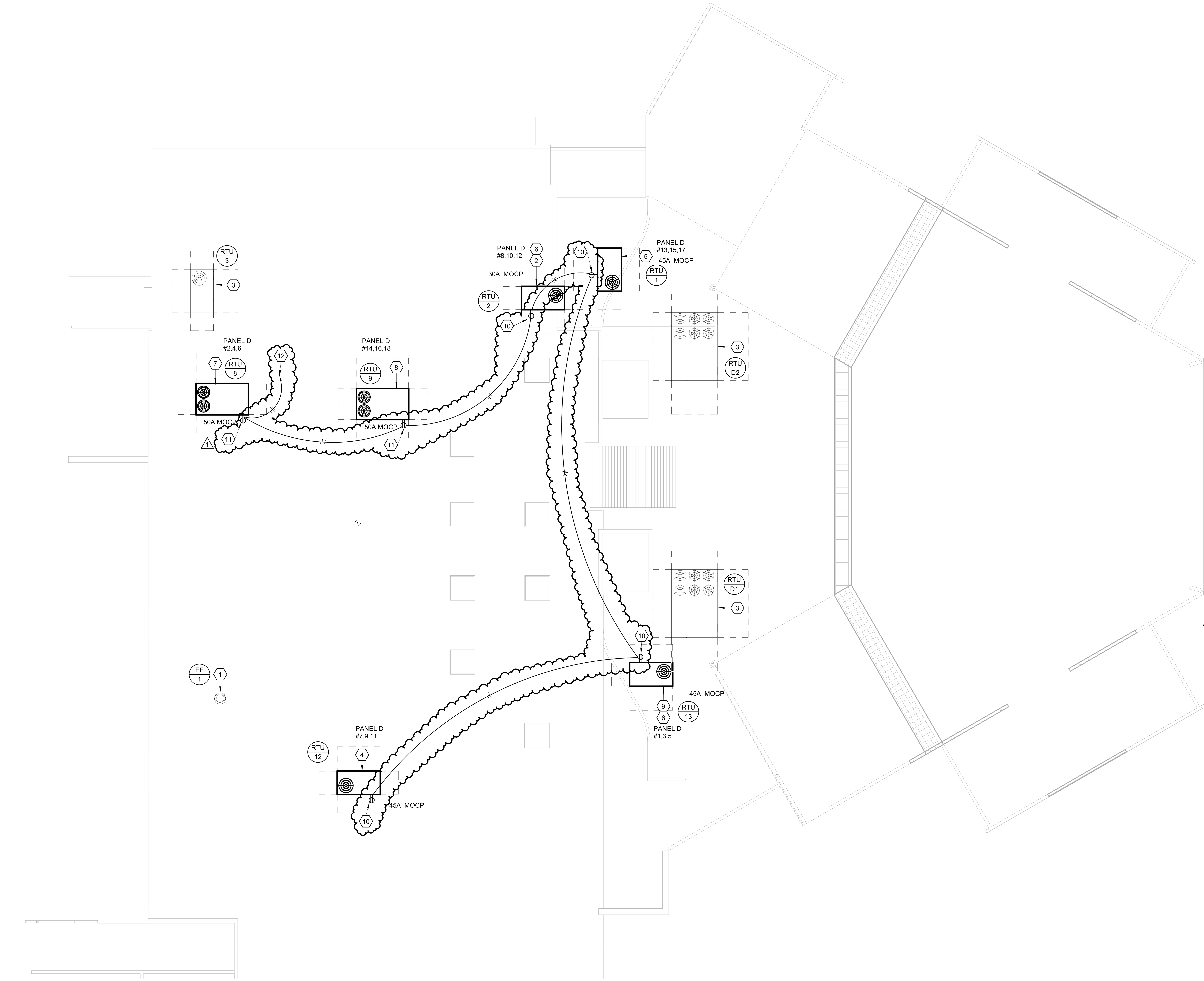

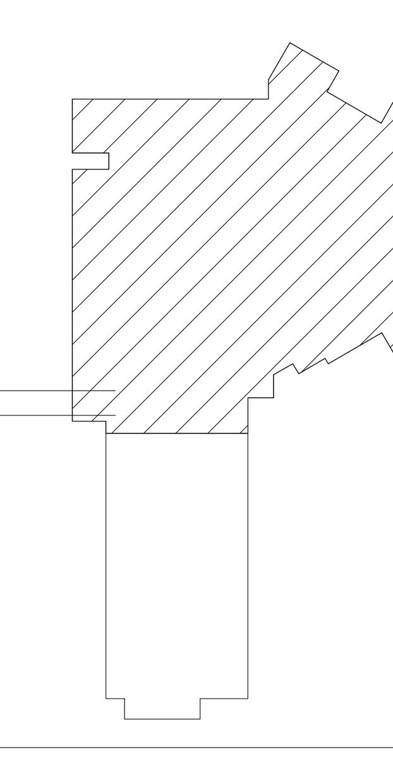

1 ELECTRICAL ROOF PLAN

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 MOUNT NEW DISCONNECT TO FAN AND CONNECT TO EXISTING CONDUIT AND WIRING MAINTAINED DURING DEMOLTION OF EXISTING FAN. FIELD VERIFY EXACT LOCATION. EXTEND CIRCUITRY IF NECESSARY. COORDINATE WORK WITH MECHANICAL CONTRACTOR. FAN TO BE CONTROLLED BY RESTROOM LIGHTS. RE: FAN CONTROL DETAIL.

2 PROVIDE POWER CONNECTION TO NEW ROOFTOP UNIT INSTALLED IN PLACE OF DEMOLISHED UNIT. REUSE EXISTING CONDUIT AND WIRING. VERIFY EXISTING WIRE SIZE IS COMPATABLE WITH REQUIRED BREAKER/MOCP SIZE (MCA OF DEMLISHED UNIT SHOULD EQUAL NEW UNIT). MODIFY CIRCUITRY TO NEW UNIT AS REQUIRED. COORDINATE WORK WITH MECHANICAL CONTRACTOR. CONFIRM POWER SOURCE. EXISTING BREAKER MAY NEED TO BE REPLACED WITH 30A.

3 EXISTING MECHANICAL UNIT TO REMAIN. NO WORK.

4 PROVIDE POWER CONNECTION TO NEW ROOFTOP UNIT INSTALLED IN A NEW LOCATION FROM THE DEMOLISHED UNIT. EXTEND THE EXISTING CONDUIT AND WIRING TO NEW LOCATION IF ADEQUATELY SIZED FOR A 45A MOCP. PROVIDE ADDITIONAL CONDUCTORS AND/OR GROUND WIRES IF THERE IS A DEFICIENCY WITH THE EXISTING QUANTITY. OTHERWISE, PROVIDE AND INSTALL NEW 4-#8, 1-#10 GROUND IN A 3/4" CONDUIT BACK TO SOURCE. REPLACE EXISTING 40A BREAKER WITH NE W 45A. COORDINATE WORK WITH MECHANICAL CONTRACTOR.

5 PROVIDE POWER CONNECTION TO NEW ROOFTOP UNIT INSTALLED IN PLACE OF DEMOLISHED UNIT. PROVIDE NEW WIRING AS REQUIRED FOR NEW LARGER BREAKER/MOCP--4-#8, 1-#10 GROUND IN A 3/4" CONDUIT. EXISTING WIRING AND CONDUIT CAN BE REUSED IF ADEQUATELY SIZED. PROVIDE ADDITIONAL CONDUCTORS AND/OR GROUND WIRES IF THERE IS A DEFICIENCY WITH THE EXISTING QUANTITY. REPLACE EXISTING BREAKER WITH 45A. COORDINATE WORK WITH MECHANICAL CONTRACTOR.

6 PROVIDE AND INSTALL ADDITIONAL CONDUCTOR (#8) AND GROUND WIRE (#10) TO ACCOUNT FOR DEFICIENCY IN EXISTING WIRE QUANTITY. FIELD VERIFY QUANTITY AND SIZE PRIOR TO ORDERNING ANY MATERIALS.

7 PROVIDE POWER CONNECTION TO NEW ROOFTOP UNIT INSTALLED IN PLACE OF DEMOLISHED UNIT. EXISTING CONDUIT AND WIRING CAN BE REUSED IF ADEQUATELY SIZED FOR A 50A MOCP. PROVIDE ADDITIONAL CONDUCTORS AND/OR GROUND WIRES IF THERE IS A DEFICIENCY WITH THE EXISTING QUANTITY. OTHERWISE, PROVIDE AND INSTALL NEW 4-#8, 1-#10 GROUND IN A 3/4" CONDUIT BACK TO SOURCE. COORDINATE WORK WITH MECHANICAL CONTRACTOR.

8 PROVIDE POWER CONNECTION TO NEW ROOFTOP UNIT INSTALLED IN A NEW LOCATION FROM THE DEMOLISHED UNIT. EXTEND THE EXISTING CONDUIT AND WIRING TO NEW LOCATION IF ADEQUATELY SIZED FOR A 50A MOCP. PROVIDE ADDITIONAL CONDUCTORS AND/OR GROUND WIRES IF THERE IS A DEFICIENCY WITH THE EXISTING QUANTITY. OTHERWISE, PROVIDE AND INSTALL NEW 4-#8, 1-#10 GROUND IN A 3/4" CONDUIT BACK TO SOURCE. COORDINATE WORK WITH MECHANICAL CONTRACTOR.

9 PROVIDE POWER CONNECTION TO NEW ROOFTOP UNIT INSTALLED IN PLACE OF DEMOLISHED UNIT. REUSE EXISTING CONDUIT AND WIRING. VERIFY EXISTING WIRE SIZE IS COMPATABLE WITH REQUIRED BREAKER/MOCP SIZE (MCA OF DEMLISHED UNIT SHOULD EQUAL NEW UNIT). MODIFY CIRCUITRY TO NEW UNIT AS REQUIRED. COORDINATE WORK WITH MECHANICAL CONTRACTOR. CONFIRM POWER SOURCE. EXISTING BREAKER MAY NEED TO BE REPLACED WITH 45A.

10 PROVIDE POWER CONNECTION TO WEATHER PROOF GFCI OUTLET PROVIDED WITH NEW RTU. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

11 PROVIDE POWER CONNECTION TO WEATHER PROOF GFCI OUTLET PROVIDED WITH OWNER PROVIDED RTU. IF UNIT DOES NOT HAVE A OUTLET PROVIDE AND INSTALL A NEW WEATHER RATED GFCI AS NECESSARY. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

12 TERMINATE ON SPARE BREAKER IN PANEL A OR C. IF NO SPARE BREAKER IS AVAILABLE PROVIDE NEW 20A BREAKER IN EXISTING SPACE.

1

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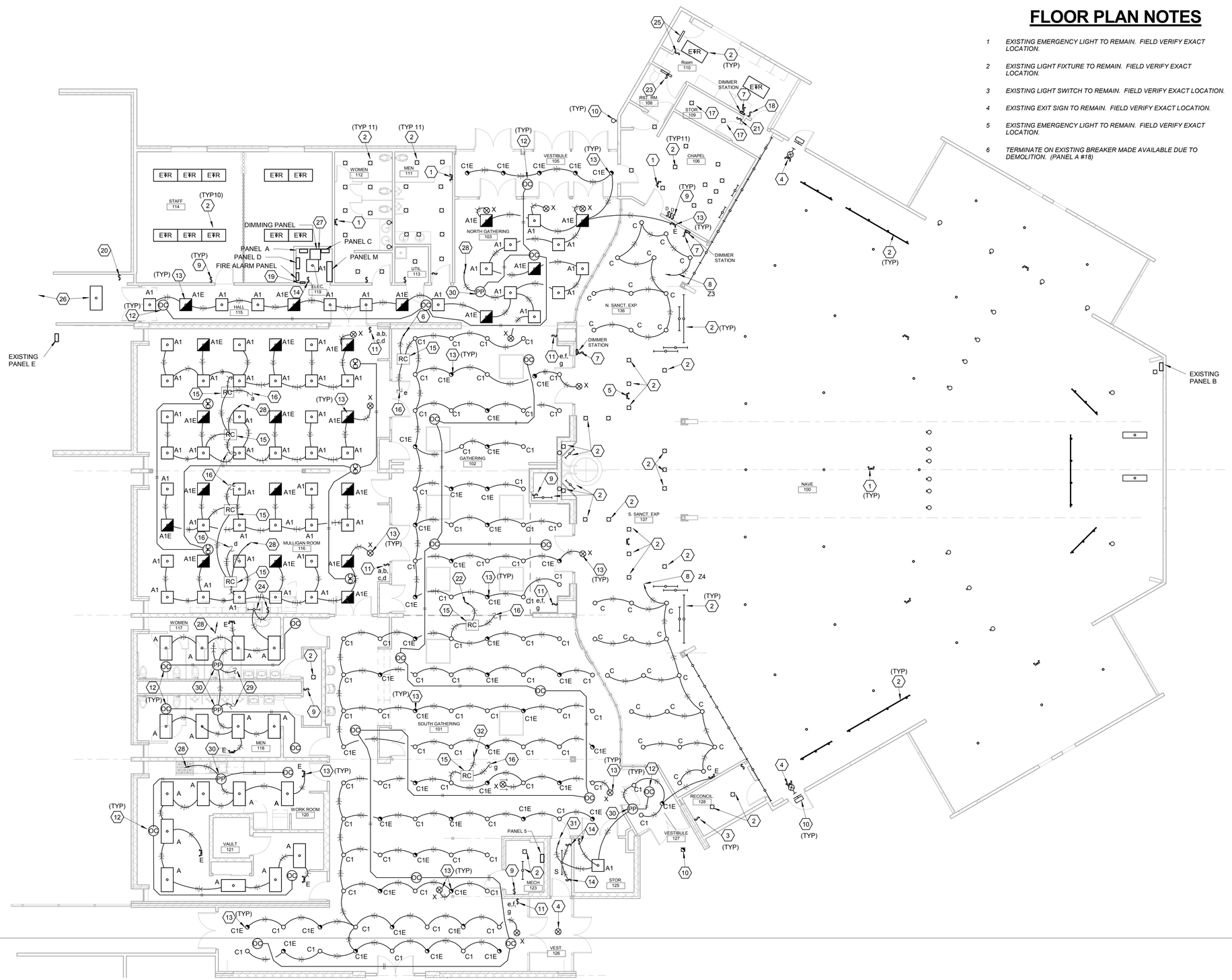

1 LIGHTING PLAN - NORTH
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *EXISTING EMERGENCY LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.*

2 *EXISTING LIGHT FIXTURE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

3 *EXISTING LIGHT SWITCH TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING EXIT SIGN TO REMAIN. FIELD VERIFY EXACT LOCATION.*

5 *EXISTING EMERGENCY LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.*

6 *TERMINATE ON EXISTING BREAKER MADE AVAILABLE DUE TO DEMOLITION. (PANEL A #18)*

FLOOR PLAN NOTES

7 *RELOCATED EXISTING DIMMING STATION. EXTEND CIRCUITRY TO NEW LOCATION AS REQUIRED.*

8 *ROUTE HOMERUN TO EXISTING DIMMING CONTROL PANEL. TERMINATE ON NEW BREAKER IN AVAILABLE SPACE. REFERENCE DIMMING CONTROL PANEL SCHEDULE. REPROGRAM MASTER CONTROLLER TO INCLUDE ADDITIONAL LIGHT ZONE IN SANCTUARY. COORDINATE WITH OWNER.*

9 *EXISTING LIGHT SWITCH TO REMAIN. FIELD VERIFY EXACT LOCATION.*

10 *EXISTING EXTERIOR EGRESS LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.*

11 *PROVIDE AND INSTALL 8 ZONE LIGHTING CONTROL WALL STATION. THE WALL STATION SHALL HAVE BUTTON CONTROLS FOR MANUAL ON, MANUAL/AUTO OFF, DIMMING RAISE AND LOWER FOR EACH OF THE 8-ZONES SEPARATELY. CONNECT TO THE ROOM CONTROLLER FOR THESE LIGHTS PER MANUFACTURER'S INSTRUCTIONS. SWITCH TO BE SIMILAR TO ACUITY nPODM8P OR EQUAL. SWITCH TO CONTROL INDICATED ZONES.*

12 *PROVIDE AND INSTALL DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR. PROVIDE POWER SUPPLY AS REQUIRED. PROVIDE ALL REQUIRED INTERCONNECTIONS BETWEEN MULTIPLE SENSORS WITHIN SPACE TO CONTROL THE LIGHTING. WIRE PER MANUFACTURER'S INSTALLATION REQUIREMENTS. SIMILAR TO ACUITY nCM-PDT-10 OR EQUAL.*

13 *CONNECT THE EMERGENCY/EXIT LIGHT FIXTURE TO THE UN-SWITCHED CIRCUIT SERVING THE LIGHTING IN THIS AREA.*

14 *PROVIDE PIR WALL SWITCH. SET FOR MANUAL "ON"/AUTO" OFF.*

15 *SINGLE CIRCUIT DIMMING ROOM CONTROLLER. INSTALL THE 0-10V DIMMING CIRCUITRY TO ALL OF THE DIMMABLE LIGHT FIXTURES CONNECTED TO THE CONTROLLER. CONTROLLER TO BE SIMILAR TO ACUITY nPP16 OR EQUAL COMPATIBLE WITH INSTALLED FIXTURES. INSTALL ABOVE ACCESSIBLE CEILING.*

16 *CONNECT TO ASSOCIATED ROOM CONTROLLER WITH DESIGNATED LETTER.*

17 *RELOCATED EXISTING LIGHT FIXTURE. EXTEND CIRCUITRY AS REQUIRED.*

18 *EXISTING LIGHT SWITCH TO REMAIN. REWIRE SWITCH SO THAT IT CONTROLS ALL THE LIGHTS TO ACCOMODATE THE LARGER ROOM.*

19 *RELOCATED EXISTING DIMMING WALL STATION CONTROLLER. EXTEND ALL CIRCUITRY TO NEW LOCATION AS REQUIRED.*

20 *RELOCATED EXISTING LIGHT SWITCH. LIGHT SHALL BE WIRED TO CONTROL EXISTING CORRIDOR/HALLWAY LIGHTS. EXTEND CIRCUITRY TO NEW LOCATION AS REQUIRED AND RECONNECT LIGHTS AS NECESSARY.*

21 *RELOCATED EXISTING LIGHT SWITCH. ROUGH-IN WITHIN EXISTING WALL. EXTEND CIRCUITRY AS REQUIRED.*

22 *TERMINATE ON EXISTING BREAKER MADE AVAILABLE DUE TO DEMOLITION. (PANEL A #31)*

23 *RELOCATED EXISTING LIGHT SWITCH. ROUGH-IN WITHIN EXISTING WALL. EXTEND CIRCUITRY AS REQUIRED.*

24 *RELOCATED UNDERCOUNTER LIGHT. INSTALL BELOW UPPER CASEWORK AS REQUIRED AND CONNECT TO SWITCH.*

25 *RELOCATED CLOSET LIGHT. INSTALL OVER DOOR WITHIN CLOSET AS REQUIRED AND CONNECT TO SWITCH.*

26 *EXISTING CORRIDOR/HALLWAY LIGHTS IN THIS AREA TO REMAIN. WIRE LIGHTS TO RELOCATED LIGHT SWITCH AS NECESSARY FOR CONTROL.*

27 *RELOCATED LEHIGH DX2 DIMMING SYSTEM. EXTEND ALL EXISTING CONDUITS TO THIS LOCATION AS REQUIRED. PROVIDE GUTTERS AND JUNCTION BOXES AS REQUIRED. RE: RISER DIAGRAM. 2 NEW ZONES TO BE ADDED TO PANEL FOR THE SANCTUARY. PROVIDE ADDITIONAL PROGRAMMING AS NECESSARY TO INCLUDE THESE NEW ZONES TO BE CONTROLLED BY THE EXISTING SANCTUARY DIMMING STATIONS. COORDINATE WORK WITH JOHN WILKINSON AT PREMIER LIGHTING 913.541.8239.*

28 *CONNECT TO EXISTING CIRCUITRY MAINTAINED DURING DEMOLITION OF LIGHTS IN THIS AREA.*

29 *PROVIDE CONTROL CONNECTION TO EXHAUST FAN EF-1. RE: 2 ROOM EXHAUST FAN CONTROL DETAIL.*

30 *PROVIDE AND INSTALL SINGLE CIRCUIT POWER PACK TO CONTROL LIGHTS IN THIS AREA. INSTALL THE CIRCUITRY TO ALL OF THE LIGHT FIXTURES CONNECTED TO THE OCCUPANCY SENSORS. POWER PACK TO BE SIMILAR TO ACUITY PP-20 OR EQUAL COMPATIBLE WITH INSTALLED FIXTURES. MOUNT ON STRUCTURE WITHIN AN ENCLOSURE.*

31 *CONNECT TO EXISTING CIRCUITRY MADE AVAILABLE DUE TO DEMOLITION OF LIGHTS IN THIS AREA.*

32 *TERMINATE ON EXISTING BREAKER MADE AVAILABLE DUE TO DEMOLITION. (PANEL A #7)*

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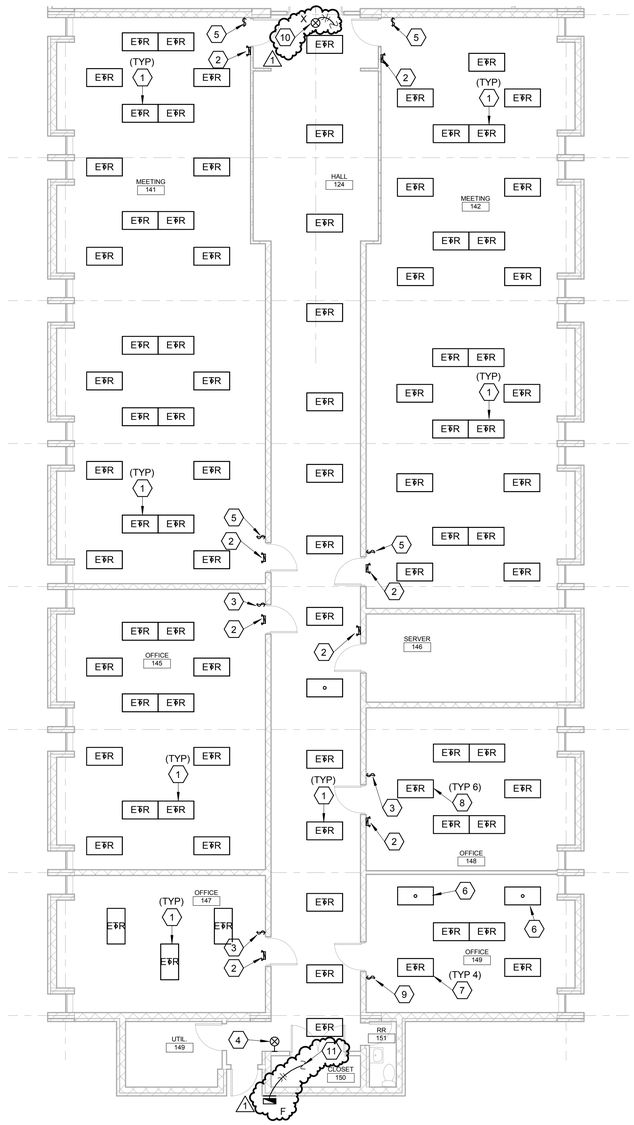

1 LIGHTING PLAN - SOUTH

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1 *EXISTING LIGHT FIXTURE TO REMAIN. FIELD VERIFY EXACT LOCATION.*

2 *EXISTING EMERGENCY LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.*

3 *EXISTING LIGHT SWITCH TO REMAIN. FIELD VERIFY EXACT LOCATION.*

4 *EXISTING EXIT SIGN TO REMAIN. FIELD VERIFY EXACT LOCATION.*

5 *PROVIDE AND INSTALL NEW 3-WAY SWITCH IN BOX MADE AVAILABLE DUE TO DEMOLITION. WIRE TO THE EXISTING LIGHTS IN THIS ROOM AS REQUIRED TO PROVIDE 3-WAY SWITCH CONTROL OF ALL LIGHTS WITHIN ROOM.*

6 *RELOCATED EXISTING LIGHT FIXTURE TO ACCOMMODATE NEW WALL CONSTRUCTION. FIELD VERIFY EXACT LOCATION. DISCONNECT CONTROLS SO THAT LIGHTS WILL BE CONTROLLED BY NEW LIGHTS SWITCH. EXTEND CIRCUITRY AS REQUIRED.*

7 *EXISTING LIGHT FIXTURE TO REMAIN. FIELD VERIFY EXACT LOCATION. REWIRE LIGHTING CONTROLS TO MAKE ALL LIGHTS IN THIS ROOM CONTORLLED BY NEW SWITCH.*

8 *EXISTING LIGHT FIXTURE TO REMAIN. FIELD VERIFY EXACT LOCATION. REWIRE LIGHTING CONTROLS TO MAKE ALL LIGHTS IN THIS ROOM CONTORLLED BY EXISTING SWITCH.*

9 *PROVIDE AND INSTALL NEW SWITCH. WIRE TO THE EXISTING LIGHTS IN THIS ROOM AS REQUIRED TO PROVIDE CONTROL OF ALL LIGHTS WITHIN ROOM.*

10 *CONNECT THE NEW EXIT LIGHT FIXTURE TO THE UN-SWITCHED CIRCUIT SERVING THE LIGHTING IN THIS AREA. FIELD VERIFY EXACT LOCATION.*

1 11 *CONNECT THE NEW EXIT LIGHT FIXTURE TO THE UN-SWITCHED CIRCUIT SERVING THE LIGHTING IN THIS AREA. FIELD VERIFY EXACT LOCATION.*

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1 04/25/20 CITY COMMENTS

E5

Switchboard: EX PANEL M

Location: ELEC. 119 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 1200 A
Enclosure: | **MCB Rating:** 1200 A

	CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load
1	1	EX PANEL D	3	400 A	400 A	0 VA
1	2	EX DIMMING CONTROL PANEL	3	400 A	200 A	0 VA
1	3	PANEL E	3	400 A	20 A	0 VA
1	4	EX PANEL A	3	225 A	150 A	0 VA
1	5	EX PANEL B	3	225 A	200 A	0 VA
1	6	EXISTING RTU-D1	3	225 A	110 A	27500 VA
1	7	EX PANEL C	3	100 A	100 A	0 VA
1	8	EXISTING RTU-D2	3	225 A	110 A	27500 VA
	9					
	10					
					Total Conn. Load:	55000 VA
					Total Amps:	153 A

EXISTING PANEL

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	55000 VA	100.00%	55000 VA		
				Total Conn. Load:	55000 VA
				Total Est. Demand:	55000 VA
				Total Conn. Current:	153 A
				Total Est. Demand...	153 A

REMARKS: *1.) EXISTING LOAD TO REMAIN.*

Branch Panel: PANEL A

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: EX PANEL M | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:**

	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	
1	1	SOUTH NARTHEX RECEPT.	20 A	1	0			0			1	20 A	MULLIGAN ROOM DWH	2	1
1	3	RTU RECEPT.	20 A	1		0			0		1	20 A	ADORATION CHAPEL DWH	4	1
1	5	MULLIGAN ROOM RECEPT.	20 A	1			0			0	1	20 A	SACRISTY	6	1
2	7	SOUTH NARTHEX LIGHTING	20 A	1	0			0			1	20 A	MULLIGAN REFR. RECEPT.	8	6
	9	Spare	20 A	1		0			0		1	20 A	MULLIGAN ROOM DISHWASHER??	10	6
1	11	RESTROOM LIGHTING	20 A	1			0			0	1	20 A	MULLIGAN ROOM RECEPT.	12	6
1	13	NORTH ADORATION LIGHTING	20 A	1	0			0			1	20 A	MULLIGAN ROOM RECEPT.	14	6
1	15	NORTH OFFICE LIGHTING	20 A	1		0			0		1	20 A	MULLIGAN ROOM GARBAGE DISPOSER??	16	6
1	17	ADORATION LIGHTING	20 A	1			0			0	1	20 A	MULLIGAN ROOM LIGHTING	18	5
1	19	NORTH PHOTOCELL	20 A	1	0			0			1	20 A	FIRE ALARM EXTENDER PANEL	20	1
3	21	NORTH NARTHEX LIGHTING	20 A	1		0			0		1	20 A	Spare	22	
1	23	NORTH DOOR OPENER	20 A	1			0			0	1	20 A	Spare	24	
	25	Spare	20 A	1	0			0			1	20 A	Spare	26	
	27	Spare	20 A	1		0			0		1	20 A	Spare	28	
1	29	BAPTISTRY CONTROL	20 A	1			0			0	1	20 A	Spare	30	
4	31	MULLIGAN ROOM LIGHTING	20 A	1	0			0			1	20 A	Spare	32	
	33	RESTROOM	20 A	1		0			0		1	20 A	Spare	34	
	35	RESTROOM	20 A	1			0			0	1	20 A	Spare	36	
	37	SPARE	20 A	2	0			0			1	30 A	Spare	38	
	39					0			0		1	30 A	Spare	40	
	41	Space	--	--			0			0	--	--	Space	42	
				Total Load:	0 VA			0 VA			0 VA				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Est. Demand Current:	0 A

EXISTING PANEL

BREAKERS SHOWN AS EXISTING LOAD MAY BECOME AVAILABLE SPARES AFTER DEMOLITION AND MAY BE USED FOR NEW LOADS SHOWN.

REMARKS: *1.) EXISTING LOAD TO REMAIN.*
2.) CIRCUIT TO BE UTILIZED FOR NEW LIGHTS. SOUTH GATHERING.
3.) CIRCUIT TO BE UTILIZED FOR NEW LIGHTS. NORTH ENTRY.
4.) CIRCUIT TO BE UTILIZED FOR NEW LIGHTS. MID GATHERING.
5.) CIRCUIT TO BE UTILIZED FOR NEW LIGHTS. NORTH GATHERING.
6.) CIRCUIT PART OF RENOVATION.

Branch Panel: PANEL C

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: EX PANEL M | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:**

	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	
1	1	RECONCILIATION ROOM RECEPT.	20 A	1	0			0			1	20 A	Spare	2	
	3	Spare	20 A	1		0			0		1	20 A	Spare	4	
1	5	MULIGAN ROOM RECEPT.	20 A	1			0			0	1	20 A	Spare	6	
1	7	ELEC ROOM LIGHTING	20 A	1	0			0			1	20 A	BAPTISMAL	8	1
	9	Spare	20 A	1		0			0		1	20 A	Spare	10	
	11	Spare	20 A	1			0			0	1	20 A	Spare	12	
	13	Spare	20 A	1	0			0			1	20 A	Spare	14	
	15	Spare	20 A	1		0			0		1	20 A	Spare	16	
	17	Spare	20 A	1			0			0	1	20 A	Spare	18	
	19	Spare	20 A	1	0			0			2	30 A	PARKING LOT LIGHTING	20	1
	21	Spare	20 A	1		0			0					22	
	23	Spare	20 A	1			0			0	1	20 A	WEB CAMERA	24	1
	25	Spare	20 A	1	0			0			1	20 A	Spare	26	
1	27	BAPTISMAL HEATER	60 A	2		0			0		2	30 A	PARKING LOT LIGHTING	28	1
	29						0			0				30	
	31	Spare	20 A	2	0			0			2	20 A	Spare	32	
	33					0			0					34	
	35	Space	--	--			0			0	--	--	Space	36	
				Total Load:	0 VA			0 VA			0 VA				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Est. Demand Current:	0 A

EXISTING PANEL

BREAKERS SHOWN AS EXISTING LOAD MAY BECOME AVAILABLE SPARES AFTER DEMOLITION AND MAY BE USED FOR NEW LOADS SHOWN.

REMARKS: *1.) EXISTING LOAD TO REMAIN.*

Branch Panel: PANEL D

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: EX PANEL M | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:**

	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	
	1				0			0						2	
4	3	RTU (NEW RTU-13?)	50 A	3		0			0		3	50 A	DEMO'D RTU-10 (NEW RTU-8)	4	1
	5						0			0				6	
	7				0			0						8	
3	9	RTU-11 & 12 (NEW RTU-12)	40 A	3		0			0		3	50 A	????? (NEW RTU-2)	10	6
	11						0			0				12	
	13				0			0						14	
4	15	RTU (NEW RTU-1)	50 A	3		0			0		3	50 A	RTU-8 & 9 (NEW RTU-9)	16	2
	17						0			0				18	
	19				0			0						20	
5	21	RTU-6	40 A	3		0			0		3	40 A	RTU-3 & 5	22	5
	23						0			0				24	
5	25	Spare	20 A	1	0			0						26	
	27	Spare (RTU-3?)	40 A	2		0			0		3	30 A	RTU-7	28	5
5	29						0			0				30	
				Total Load:	0 VA			0 VA			0 VA				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Est. Demand Current:	0 A

EXISTING PANEL

CONTRACTOR SHALL CONFIRM WHICH BREAKERS POWER INDICATED UNITS PRIOR TO PERFORMING ANY WORK.

REMARKS: *1.) EXISTING BREAKER TO BE USED TO POWER NEW RTU-8. MOVE LOADS AS REQUIRED.*
2.) EXISTING BREAKER TO BE USED TO POWER NEW RTU-9 ONLY. REMOVE ANY ADDITIONAL LOADS.
3.) REPLACE EXISTING BREAKER WITH NEW 45A. PROVIDE NEW CONDUCTORS IF NECESSARY TO POWER NEW RTU 12.
4.) REPLACE EXISTING BREAKER WITH NEW 45A TO POWER NEW ROOFTOP UNIT.
5.) EXISTING SPARE/LOAD TO REMAIN.
6.) REPLACE EXISTING BREAKER WITH NEW 30A TO POWER NEW ROOFTOP UNIT.

STATE OF MISSOURI
DOMINICK L. V. BRUCERATO
NUMBER E-2001004658
REGISTERED PROFESSIONAL ENGINEER
2/20/20

OUR LADY OF THE PRESENTATION

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Revised:

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2006007202

E6

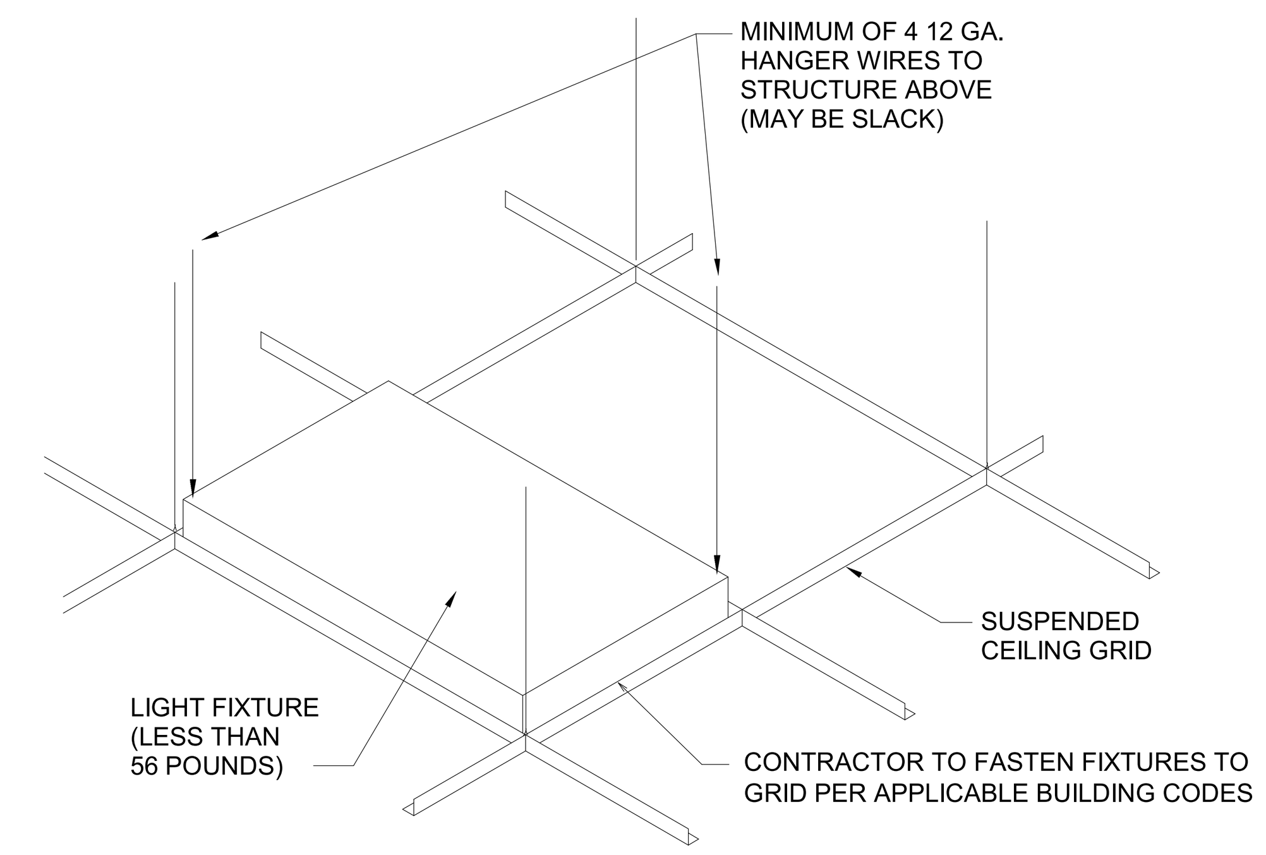
EXISTING DIMMING CONTROL PANEL SCHEDULE

ZONE	FIXTURE TYPE	DESCRIPTION	QUANTITY	VOLTAGE	ZONE WATTAGE	LAMP TYPE	CONTROL TYPE	NOTES
Z1	ETR A1	SANCTUARY PENDANT	3	120	1620	40W A19/ 300W R-LAMP	DIMMER	EXISTING ZONE
Z2	ETR A1	SANCTUARY PENDANT	3	120	1620	40W A19/ 300W R-LAMP	DIMMER	EXISTING ZONE
Z3	C	NORTH EXAPNSION	11	120	308	28W LED	0-10V DIMMER	NEW ZONE
Z4	C	NORTH EXAPNSION	17	120	476	28W LED	0-10V DIMMER	NEW ZONE
Z5	ETR A1	SANCTUARY PENDANT	3	120	1620	40W A19/ 300W R-LAMP	DIMMER	EXISTING ZONE
Z6	ETR A	SANCTUARY PENDANT BODY	2	120	1720	60W A19/ 500W R-LAMP	DIMMER	EXISTING ZONE
Z7	-		-	-	-	-	-	
Z8	ETR A	SANCTUARY PENDANT	2	120	1720	60W A19/ 500W R-LAMP	DIMMER	EXISTING ZONE
Z9	ETR A	SANCTUARY PENDANT	2	120	1720	60W A19/ 500W R-LAMP	DIMMER	EXISTING ZONE
Z10	-		-	-	-	-	-	
Z11	-		-	-	-	-	-	
Z12	ETR A	SANCTUARY PENDANT	2	120	1720	60W A19/ 500W R-LAMP	DIMMER	EXISTING ZONE
Z13	ETR A	SANCTUARY PENDANT	2	120	1720	40W A19/ 300W R-LAMP	DIMMER	EXISTING ZONE
Z14	-		-	-	-	-	-	
Z15	-		-	-	-	-	-	
Z16	ETR A	SANCTUARY PENDANT	2	120	1720	60W A19/ 500W R-LAMP	DIMMER	EXISTING ZONE
Z17	ETR A1	SANCTUARY PENDANT BODY	3	120	1620	40W A19/ 300W R-LAMP	DIMMER	EXISTING ZONE
Z18	-		-	-	-	-	-	
Z19	ETR A	SANCTUARY PENDANT BODY	3	120	1620	40W A19/ 300W R-LAMP	DIMMER	EXISTING ZONE
Z20	ETR	DIRECTIONAL LIGHT	2	120	1000	500W PAR	DIMMER	EXISTING ZONE
Z21	ETR	DIRECTIONAL LIGHT	2	120	600	200W PAR	DIMMER	EXISTING ZONE
Z22	ETR	DIRECTIONAL LIGHT	2	120	1000	500W PAR	DIMMER	EXISTING ZONE
Z23	ETR	TRACK LIGHT	2	120	100	50W PAR	DIMMER	EXISTING ZONE
Z24	ETR	DIRECTIONAL/TRACK LIGHT	2	120	300	50W PAR/ 200W PAR	DIMMER	EXISTING ZONE
Z25	ETR	DIRECTIONAL LIGHT	4	120	800	200W PAR	DIMMER	EXISTING ZONE
Z26	ETR	DIRECTIONAL LIGHT	2	120	1000	500W PAR	DIMMER	EXISTING ZONE
Z27	ETR	COVE LIGHT	14	120	600	LINEAR FLO.	DIMMER	EXISTING ZONE
Z28	ETR Q2	ALTAR TRACK LIGHT	2	120	480	54W T5HO	DIMMER	EXISTING ZONE
Z29	ETR R	CHOIR LOFT BEAM DOWNLIGHT	4	120	600	150W BR40	DIMMER	EXISTING ZONE
Z30	ETR C1	BACK SANCTUARY CAN LIGHT	12	120	540	42W CFL	DIMMER	EXISTING ZONE
Z31	ETR C2	BAPTISTRY CAN LIGHT	10	120	840	42W CFL	DIMMER	EXISTING ZONE
Z32	ETR L	CHRISM CAN LIGHT	2	120	100	50W MR16	DIMMER	EXISTING ZONE
Z33	ETR M	BAPTISTRY COVE LIGHT	2	120	35	17W T8	DIMMER	EXISTING ZONE
Z34	ETR Q, Q1	SIDE SANCTUARY TRACK LIGHT	7	120	525	75W PAR	DIMMER	EXISTING ZONE
Z35	ETR Q, Q1	SIDE SANCTUARY TRACK LIGHT	7	120	525	75W PAR	DIMMER	EXISTING ZONE
		TOTAL WATTAGE			31105			

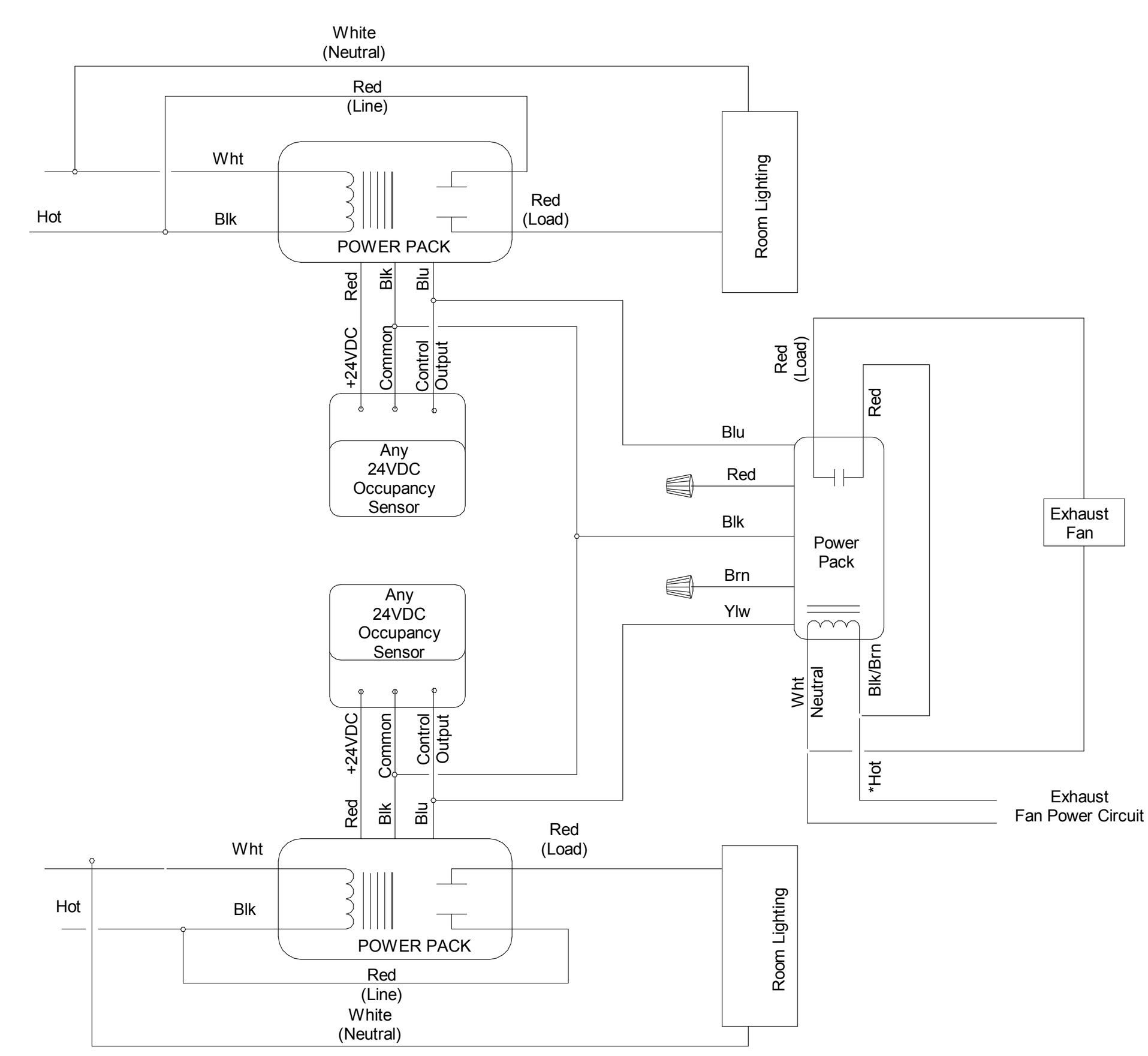
LIGHT FIXTURE SCHEDULE

Type	Manufacturer	Lamp	Voltage/Watts	Description
A	LITHONIA # 2GTL- -4-48L- - - -EZ1-LP835	LED 4777LMN 35K	MVOLT/36W	2'x4' LAY-IN CEILING, RECESSED FIXTURE WITH ACRYLIC #12 LENS AND LED DIMMING DRIVER.
A1	LITHONIA # 2TL2-33--RW-A12- -EZ1-LP835	LED 3246LMN 35K	120V/29W	2'x2' LAY-IN CEILING, RECESSED FIXTURE WITH REGRESSED ACRYLIC #12 LENS AND LED DIMMING DRIVER.
A1E	LITHONIA # 2TL2-33--RW-A12- -EZ1-LP835-EL7L-E10WLCP	LED 3246 LMN 35K	120V/29W	2'x2' LAY-IN CEILING, RECESSED FIXTURE WITH REGRESSED ACRYLIC #12 LEN, LED DIMMING DRIVER AND 700LMN EMERGENCY BATTERY BACKUP WITH SELF-DIAGNOSTICS.
C	INDY # L6-17LM-35K-120-G4-90CRI-FD L6-HW-CSS-PF OR EQUAL	LED 1847LMN 35K	120V/18W	6" LED DOWNLIGHT WITH INTEGRAL PHASE DIMMING DRIVER, HYPERBOLIC MEDIUM BAFFLE, WHITE TRIM AND CLEAR SEMI-SPECULAR LENS. LIGHT NEEDS TO BE COMPATIBLE WITH LEHIGH DX2 DIMMING PANEL.
C1	LITHONIA # LDN6-35/25-L06-WR-LSS-MVOLT-EZ10 OR EQUAL	LED 2500LMN 35K	120V/28W	6" LED DOWNLIGHT WITH INTEGRAL 0-10V DIMMING DRIVER, WHITE TRIM AND SEMI-SPECULAR LENS.
C1E	LITHONIA # LDN6-35/25-L06-WR-LSS-MVOLT-EZ10-ELSD OR EQUAL	LED 2500LMN 35K	120V/28W	6" LED DOWNLIGHT WITH INTEGRAL 0-10V DIMMING DRIVER, WHITE TRIM, SEMI-SPECULAR LENS AND EMERGENCY BATTERY BACKUP WITH SELF-DIAGNOSTICS.
E	LITHONIA # ELM4L- - - - -SDRT OR EQUAL	LED 640LMN	120V/3.2W	LED EMERGENCY FIXTURE WITH MAINTENANCE FREE SEALED NiCAD BATTERY AND SELF-DIAGNOSTIC/SELF-TEST CIRCUITRY.
F	LITHONIA # WST LED P2 30K VF MVOLT PE E20WC	LED 3000 LMN	120V/25W	EXTERIOR WALL MOUNT TRAPEZOIDAL LED FIXTURE EQUIPPED WITH A COLD WEATHER EMERGENCY 20W BATTERY BACK-UP BALLAST TO POWER LAMP A MINIMUM OF 90 MINUTES AND PHOTOCELL CONTROL. FINISH TO BE SELECTED BY ARCHITECT.
S	LITHONIA # ZL1N L48 3000LM L/LENS MVOLT 35K 80CRI WH	LED	120V/25W	4' SURFACE MOUNT LED STRIP FIXTURE WITH 11-GAUGE WHITE POWDER COAT WIREGUARD.
X	LITHONIA # SOLO 1 OR 2 RMR-SEE PLANS FOR INDICATORS- -SD OR EQUAL	LED	120V/3W	CEILING/BACK MOUNT OVAL MIRROR LED EXIT SIGN WITH RED LETTERS, ALUMINUM HOUSING AND EMERGENCY BATTERY BACKUP PROVIDING 2-HOUR EMERGENCY RUN TIME WITH SELF-DIAGNOSTICS. CONTRCTOR SHALL VERIFY EXACT MOUNTING, NUMBER OF FACES AND NUMBER OF CHEVRONS PRIOR TO ORDERING. REFER TO PLANS.

1



1 LIGHT FIXTURE DETAIL
SCALE: NONE



*NOTE:
CONNECT ONLY THE SUPPY FOR THE VOLTAGE BEING USED. CAP UNUSED POWER SUPPLY WIRE.

2 ROOM SENSOR CONTROL WITH COMMON FAN.

2 2 ROOM EXHAUST FAN CONTROL DETAIL
SCALE: NONE

LIGHTING CONTROL NOTES

A. THE CONTRACTOR SHALL PROVIDE START-UP, PROGRAMMING, TESTING AND OWNER TRAINING FOR THE LIGHTING CONTROLS.
B. LIGHTING IN ROOMS SHALL BE CONTROLLED BY A SYSTEM CONSISTING OF ROOM CONTROLLERS, DUAL TECHNOLOGY MOTION SENSORS, AND WALL MOUNTED DIGITAL CONTROL STATIONS. ALL WIRING SHALL BE INSTALLED BY THE CONTRACTOR. THE DIGITAL CONTROL STATIONS SHALL CONSIST OF PUSH BUTTONS CAPABLE OF TURNING LIGHTING ZONES ON AND OFF. LIGHTING CONTROLS SHALL BE BY WATTSTOPPER, ACUITY, OR LUTRON.
C. LIGHTING IN SMALL ENCLOSED CLOSETS AND SIMILAR ROOMS SHALL BE CONTROLLED BY PIR WALL SWITCHES. THE SWITCHES SHALL BE CONFIGURED FOR MANUAL ON AND MANUAL/AUTO OFF OPERATION. SWITCHES SHALL BE BY WATTSTOPPER, LUTRON, OR ACUITY.
D. MOTION SENSORS FOR LIGHTING CONTROL SHALL BE BY WATTSTOPPER, ACUITY, OR COOPER. THE CONTRACTOR SHALL COORDINATE WORK WITH THE SENSOR MANUFACTURER TO PROVIDE THE APPROPRIATE SENSOR COVERAGE. THE CONTRACTOR SHALL PROVIDE ALL THE LABOR, WIRING, AND COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM.
E. THE CONTRACTOR SHALL HAVE THE LIGHTING CONTROL VENDOR REVIEW THE OCCUPANCY SENSOR LAYOUT SHOWN ON THE PLANS TO VERIFY PLACEMENT, SENSOR QUANTITIES, AND THE SENSOR TYPE SPECIFIED. THE LIGHTING CONTROL VENDOR SHALL MAKE ANY REQUIRED ADJUSTMENTS TO THE LIGHTING CONTROLS AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM BASED ON THE INTENT WITHIN THESE DOCUMENTS. ALL COSTS WITH ASSOCIATED WITH ANY VENDOR MODIFICATIONS SHALL BE INCLUDED IN THE BASE BID. THE VENDOR SHALL PROVIDE SHOP DRAWINGS AND WIRING DIAGRAMS.

NEW CONDUIT NOTES

CONCEAL ALL CONDUIT AND WIRING WITHIN WALLS AND ABOVE CEILINGS WHEREVER POSSIBLE. ALL EXPOSED WIRING IN THE NAVE AND SANCTUARY SHALL BE INSTALLED IN WIREMOLD #V500 SURFACE MOUNTED RACEWAY PAINTED TO MATCH THE SURROUNDING SURFACE AS CLOSE AS POSSIBLE. RACEWAY TO BE INSTALLED NEXT TO FRAMING MEMBERS TO CONCEAL RACEWAY AS MUCH AS POSSIBLE. CONTRACTOR SHALL COORDINATE ALL EXPOSED RACEWAY LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

FIRE ALARM ALTERATION NOTES

A. FIRE ALARM CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ASSOCIATED WORK TO LOCAL CITY AND FIRE DEPARTMENT FOR APPROVAL PRIOR TO BEGINNING ANY WORK.
B. F.A.C. SHALL TEST FIRE DETECTION AND ALARM SYSTEMS IN PRESENCE OF FIRE CODE OFFICIAL . NOTIFY OFFICIAL A MINIMUM OF 48 HOURS PRIOR TO REQUIRED ACCEPTANCE AND PRIOR TO CERTIFICATE OF OCCUPANCY.
C. ALL DUCT DETECTORS FOR NEW HVAC UNITS: xxxxxxxxxxx SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEMS.

EMERGENCY EGRESS LIGHTING

A. EXIT DISCHARGE SHALL BE ILLUMINATED, BY NOT LESS THAN 1 FOOT CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING IS OCCUPIED.

GENERAL NOTES (TYPICAL ALL SHEETS)

A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.
B. CONTRACTOR SHALL REFER TO ARCHITECTS DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
C. REFER TO ARCHITECTS PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.
D. UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR EACH PANELBOARD THAT CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.
E. ALL LIGHT FIXTURES SHALL BE SUPPORTED PER UBC STANDARD 47-18 WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.
F. EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO HOT LEG, NOT SWITCH LEG.
G. CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL SYSTEM FURNITURE WITH FURNITURE INSTALLER.
H. DISCONNECTS FOR MECHANICAL EQUIPMENT ARE PROVIDED BY OTHERS. UNLESS NOTED OTHERWISE.
I. FIRE ALARM IS A DESIGN BUILD SCOPE. THE FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DESIGN/CONSTRUCTION DRAWINGS TO THE CITY AND ARCHITECT FOR REVIEW. THE CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH FIRE ALARM MODIFICATIONS. THIS WORK SHALL INCLUDE POWER EXTENDER PANEL, SMOKE DETECTORS, HORN/STROBES, PULL STATIONS, REMOTE INDICATING LIGHTS AND ANY OTHER FIRE ALARM WORK SHOWN ON PLANS. ALL WIRING, PLENUM RATED CABLING, BETWEEN DEVICES SHALL BE INCLUDED IN WORK TO PROVIDE AN OPERATIONAL EXTENSION OF THE EXISTING FIRE ALARM SYSTEM.
J. CONTRACTOR SHALL ALIGN ALL WIRING DEVICES IN VERTICAL ALIGNMENT. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COSTS ASSOCIATED WITH THE RELOCATION(S).
K. EXCEPT AS OTHERSIWSE NOTED OR APPROVED BY THE ARCHITECT THE CONTRACTOR SHALL INSTALL, ELECTRICAL FEEDER AND BRANCH CIRCUIT RACEWAYS IN A CONCEALED MANNER THROUGHOUT THEIR ROUTING. ROUTING PATHS AND METHODS SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLING RACEWAYS.

ELECTRICAL SYMBOLS

Symbol	Description
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
	CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB. ALL CONDUIT 3/4" EXCEPT AS NOTED
	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED
OR	EXIT LIGHT - SINGLE FACED - ARROWS AS SHOWN
	EXIT LIGHT - DOUBLE FACED - ARROWS AS SHOWN
	WALL MOUNT EXIT LIGHT - SINGLE FACED
OR	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT.
OR	LED LIGHT FIXTURE
OR	LED LIGHT FIXTURE ON EMERGENCY POWER
	FLUORESCENT STRIP FIXTURE
	RECESSED CEILING LIGHT FIXTURE
	PANELBOARD. INSTALL W/TOP 6'-0" AFF
$	SINGLE POLE SWITCH. +3'-10" AFF TO CENTERLINE OF DEVICE BOX
$ MS	MOTION SENSOR SWITCH +3'-10" AFF TO CENTERLINE OF DEVICE BOX
$ D	DIMMER SWITCH +3'-10" AFF TO CENTERLINE OF DEVICE BOX
OC	CEILING MOUNTED OCCUPANCY SENSOR.
OC	CEILING MOUNTED DIRECTIONAL OCCUPANCY SENSOR.
	DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
W	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION AND WEATHERPROOF PLATE. +1'-6" AFF OR AS NOTED
G	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED
	DOUBLE DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
	FLUSH FLOOR BOX OR POKE-THRU DEVICE
W	VOICE OUTLET WITH 1" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING OR AT LEAST 10'-0" AFF IN AREAS WITH NO CEILING. INSTALLED ABOVE COUNTERTOP. (W DENOTES WALL MOUNTED +48" AFF)
	DATA/VOICE OUTLET WITH 1" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING OR AT LEAST 10'-0" AFF IN AREAS WITH NO CEILING. +1'-6" AFF OR AS NOTED.
	DATA/VOICE OUTLET WITH 1" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING OR AT LEAST 10'-0" AFF IN AREAS WITH NO CEILING. INSTALLED ABOVE COUNTERTOP.
AV	A/V OUTLET DOUBLE GANG J-BOX WITH 1-1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
AV	A/V OUTLET DOUBLE GANG J-BOX INSTALLED IN CEILING TILE.
110cd	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE w/75cd RATING, FLUSH MOUNTED UNLESS NOTED OTHERWISE. (cd-DENOTES CANDELA RATING). +6'-8" A.F.F.
L	WALL MOUNTED FIRE ALARM STROBE w/75cd RATING, UNLESS NOTED OTHERWISE. (cd-DENOTES CANDELA RATING). +6'-8" A.F.F.
F	FIRE ALARM MANUAL PULL STATION. +3'-10" AFF
PE D	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR (D-DENOTES IN DUCT)
J	WALL MOUNTED JUNCTION BOX.
J	JUNCTION BOX
TV	TELEVISION OUTLET
CR	CARD READER W/ SINGLE GANG BOX @ 3'-10" AFF. ROUTE CONCEALED 3/4" CONDUIT FROM BOX TO AN ACCESSIBLE SPACE ABOVE THE CEILING IN THE BUILDING.
T	THERMOSTAT OUTLET BOX WITH 1/2"C, CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT. THERMOSTAT AND WIRING BY OTHERS.
	INDICATES WIRING DEVICE ABOVE OR BELOW RE: DRAWING HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR
S	12"X12" SPEAKER JUNCTION BOX WITH 1/2"C, CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT. SPEAKER AND WIRING BY OTHERS.
S	8" CEILING SPEAKER MOUNTED IN 2'X2' TILE. NO ROUGH-IN REQUIRED.
RC	DIMMING ROOM CONTROLLER
AFF	ABOVE FINISH FLOOR
FA	FIRE ALARM
ETR	EXISTING TO REMAIN

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1 50 NW MURRAY RD.
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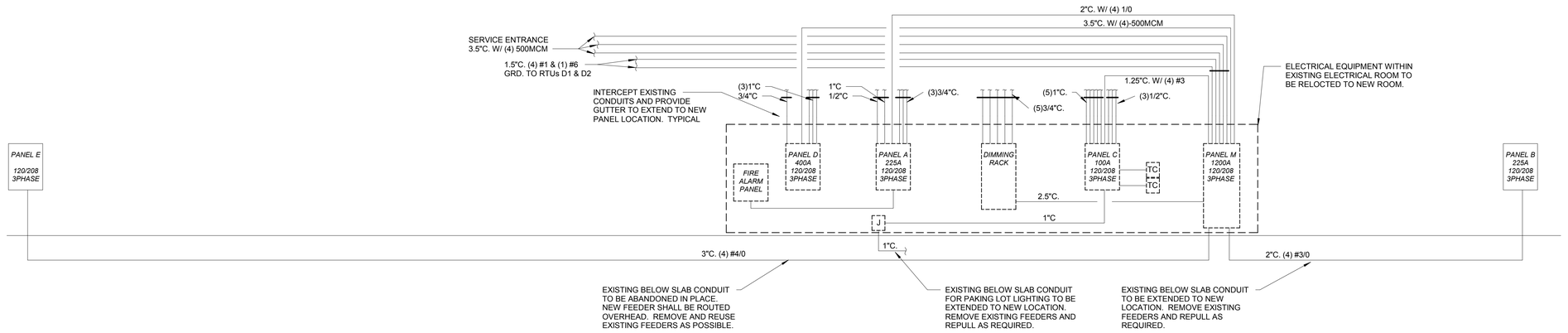
OUR LADY OF THE PRESENTATION

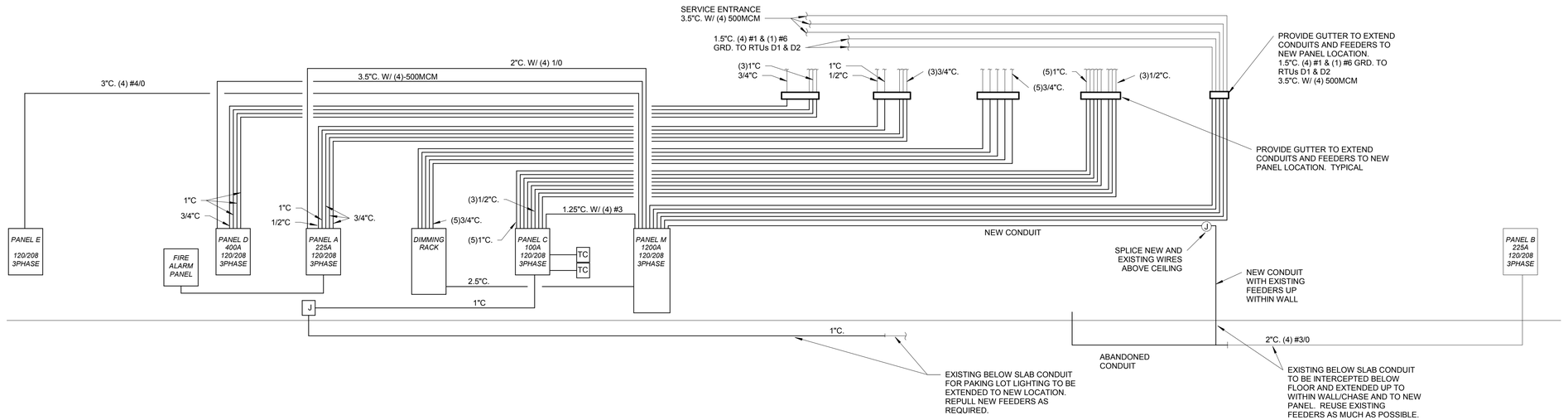
Drawn by: BGR
Checked by: BGR
Issue date: 02/01/2020

Revised:
1 04/25/20 CITY COMMENTS

E7



DEMOLITION ELECTRICAL RISER



NEW ELECTRICAL RISER

1 EXISTING ONE-LINE DIAGRAM

SCALE: NONE

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STATE OF MISSOURI
DOMINICK R. GRUCELLA
NUMBER E-2001004658
REGISTERED PROFESSIONAL ENGINEER
2/01/20

OUR LADY OF THE PRESENTATION
130 NW MURRAY RD.
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