

INDOOR FAN COIL UNIT SCHEDULE																				
NO.	TYPE	CFM	SPE	CHAR	MCA	ELECTRIC HEATING KW INPUT	SEER	HEAT PUMP HEATING				COOLING				FRESH AIR CFM	WEIGHT	FAN COIL MANUFACTURER	HEAT PUMP UNIT MODEL #	
								MBH	ENT AIR	LVG AIR	OUTDOOR AIR	MBH	S/T	ENT AIR	LVG AIR	OUTDOOR AIR				
1	HIGH WALL	200	---	208-230/1Ø	.2	---	24.5	8.5	70°	89°	9°	7.5	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM007TNVDCH/AA	[1] [2]
2	HIGH WALL	487	---	208-230/1Ø	.4	---	24.5	20.0	70°	89°	9°	18.0	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM018TNVDCH/AA	[1] [2]
3	HIGH WALL	200	---	208-230/1Ø	.2	---	24.5	8.5	70°	89°	9°	7.5	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM007TNVDCH/AA	[1] [2]
4	HIGH WALL	200	---	208-230/1Ø	.2	---	24.5	8.5	70°	89°	9°	7.5	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM007TNVDCH/AA	[1] [2]
5	HIGH WALL	487	---	208-230/1Ø	.4	---	24.5	20.0	70°	89°	9°	18.0	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM018TNVDCH/AA	[1] [2]
6	HIGH WALL	200	---	208-230/1Ø	.2	---	24.5	8.5	70°	89°	9°	7.5	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM007TNVDCH/AA	[1] [2]
7	HIGH WALL	200	---	208-230/1Ø	.2	---	24.5	8.5	70°	89°	9°	7.5	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM007TNVDCH/AA	[1] [2]
8	HIGH WALL	200	---	208-230/1Ø	.2	---	24.5	8.5	70°	89°	9°	7.5	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM007TNVDCH/AA	[1] [2]
9	HIGH WALL	487	---	208-230/1Ø	.4	---	24.5	20.0	70°	89°	9°	18.0	1.0	80 62	58 53	95°	4	25#	'SAMSUNG' AM018TNVDCH/AA	[1] [2]
10	DUCTED	600	---	208-230/1Ø	2.6	---	19.6	20.0	70°	89°	9°	18.0	1.0	80 62	58 53	95°	107	80#	'SAMSUNG' AC018BNHDCH	[1] [2]
11	DUCTED	600	---	208-230/1Ø	2.6	---	19.6	20.0	70°	89°	9°	18.0	1.0	80 62	58 53	95°	143	80#	'SAMSUNG' AC018BNHDCH	[1] [2]
12	DUCTED	600	---	208-230/1Ø	2.6	---	19.6	20.0	70°	89°	9°	18.0	1.0	80 62	58 53	95°	143	80#	'SAMSUNG' AC018BNHDCH	[1] [2]
13	DUCTED	920	---	208-230/1Ø	2.6	---	18.2	32.0	70°	89°	9°	30.0	1.0	80 62	58 53	95°	143	80#	'SAMSUNG' AC030BNHDCH	[1] [2]
14	360 CASSETTE	480	---	208-230/1Ø	20.1	---	21.1	20.0	70°	89°	9°	18.0	1.0	80 62	58 53	95°	50#	'SAMSUNG' AC018BN6DCH	[1] [2]	

1 PROVIDE WITH MANUFACTURERS INTEGRAL CONDENSATE PUMP.
 2 FRESH AIR HANDLED BY ERV.
 3 UNITS SPECIFIED ARE DESIGNED FOR MAX HEAT OPERATION. UNITS HEATING CAPABILITY WILL PERFORM AT 90% DOWN TO -13F.

GRILLE AND REGISTER SCHEDULE																	
SYMBOL	DESCRIPTION	TYPE	FINISH														
CD3	CEILING DIFFUSER	'HART&COOLEY' 631	[1] OFF WHITE														
SSG	SIDEWALL SUPPLY GRILLE	'HART&COOLEY' 821	[3] OFF WHITE														
SRG	SIDEWALL RETURN GRILLE	'HART&COOLEY' 672	OFF WHITE														
RG	RETURN GRILLE	'HART&COOLEY' 650	OFF WHITE														
CD	CEILING DIFFUSER	'TITUS' TDC	OFF WHITE														
HRG	HALL RETURN GRILLE	'HART&COOLEY' 650	OFF WHITE														

ISSUE DATE MAR 15, 2024

PROJECT STATUS DESIGN DEVELOPMENT

REVISIONS

DESCRIPTION

DATE

#

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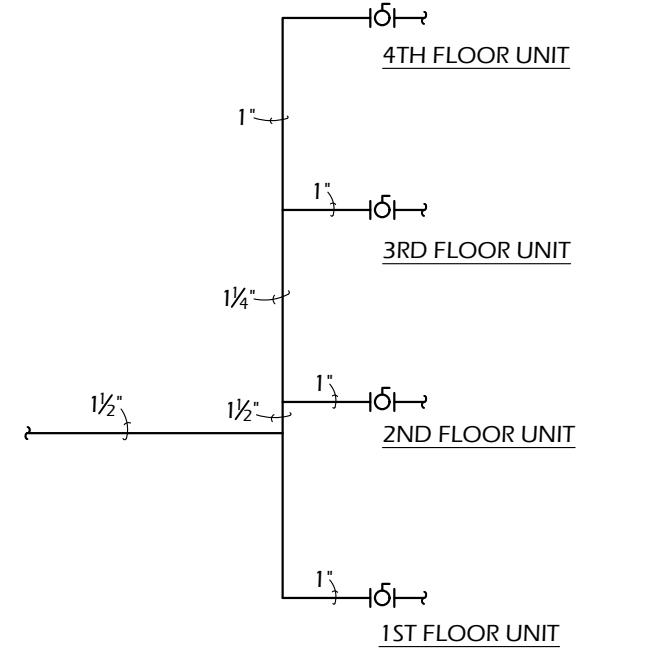
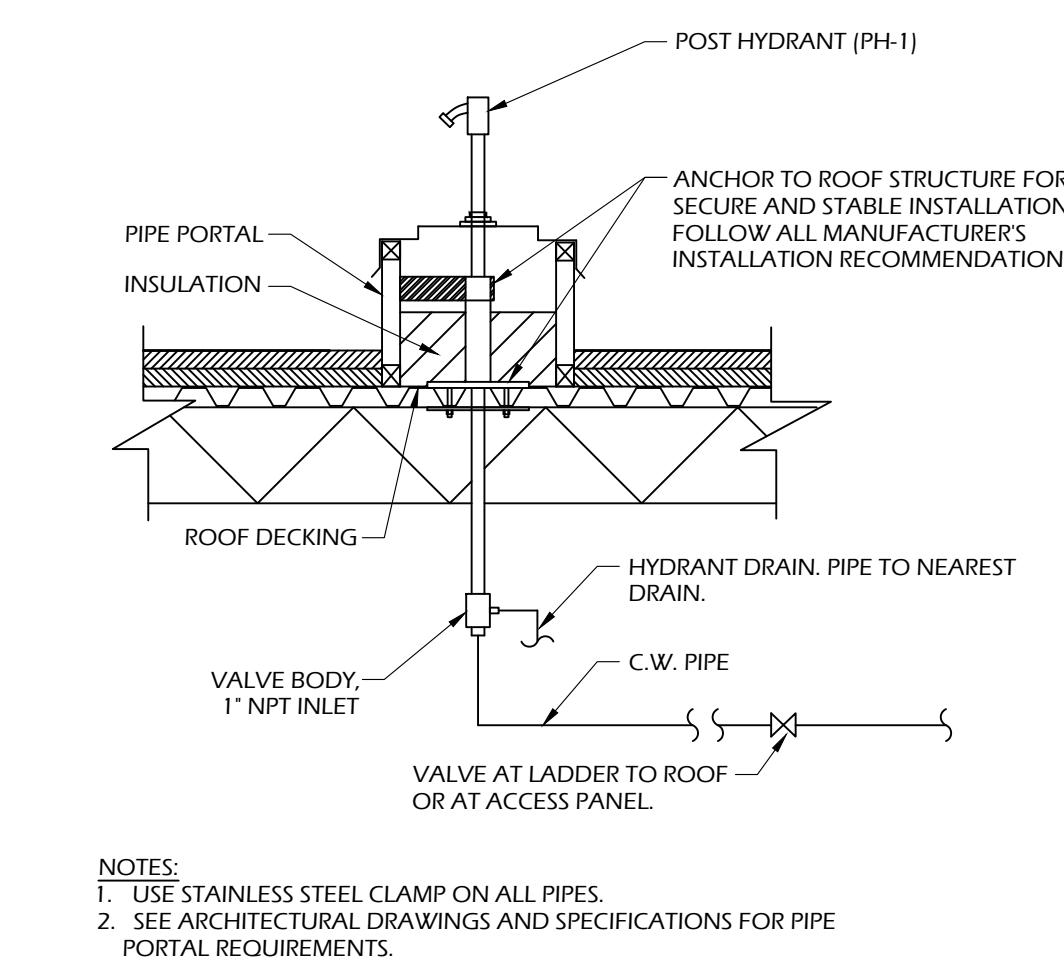
ZEC Zach Evans Construction

7761 W. RIVERSIDE DR. SUITE #100 BOISE, ID 83714 PHONE: (208) 853-1205

ENERGY RECOVERY VENTILATOR SCHEDULE																					
NO.	TYPE	CHAR	SUPPLY AIR				RETURN AIR								MANUFACTURER	REMARKS					
			CFM	SPE	RPM	HP	WINTER DESIGN ENT AIR	SUMMER DESIGN ENT AIR	LVG AIR	WINTER DESIGN ENT AIR	SUMMER DESIGN ENT AIR	LVG AIR	CFM	SPE	RPM	HP					
1	STATIC PLATE	120/1Ø	50	.60"	---	1/8	9°	53°	96 63	78 58	50	.50"	---	1/8	68°	24°	72 57	90 62	35#	'BROAN' ERVS100S	[1] [2]

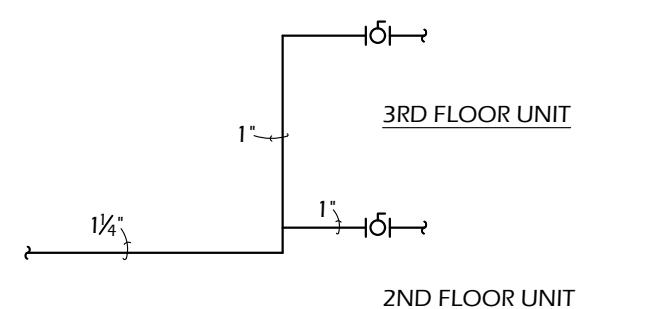
1 PROVIDE WITH 1" PLEATED, MERV 8 FILTERS.
 2 EQUIPMENT TO RUN CONTINUOUSLY.

EXTERIOR HEAT PUMP UNIT SCHEDULE																	
NO.	EVAP CFM	MCA	CHAR	HEATING				COOLING				REFRIGERANT	WEIGHT	MANUFACTURER	[1] [2]		
				MBH	ENT AIR	HP	SEER	MBH	ENT AIR	HP	SEER						
1	---	23	208-230/1	42.0	0°		10.0	38.0	80 62	22.0		R-410A	215#	'SAMSUNG' AM036TXMDCH			
2	---	20.1	208-230/1	20.0	9°		10.6	18.0	80 62	3.8		R-410A	120#	'SAMSUNG' AC018BXADCH			
3	---	20.1	208-230/1	20.0	9°		10.6	18.0	80 								



A WATER RISER DETAIL - 3 FLOORS

M1.1 SCALE: NTS



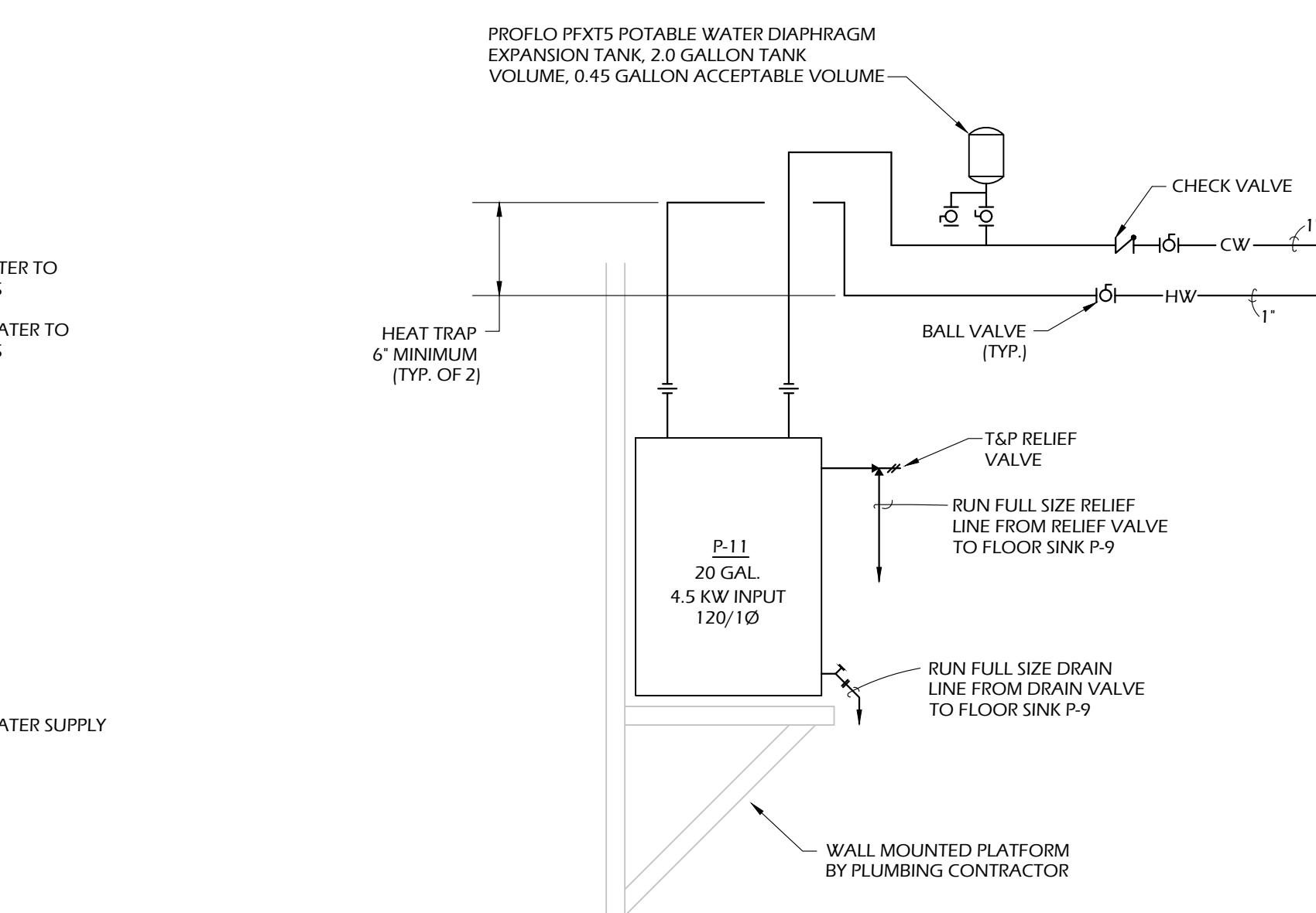
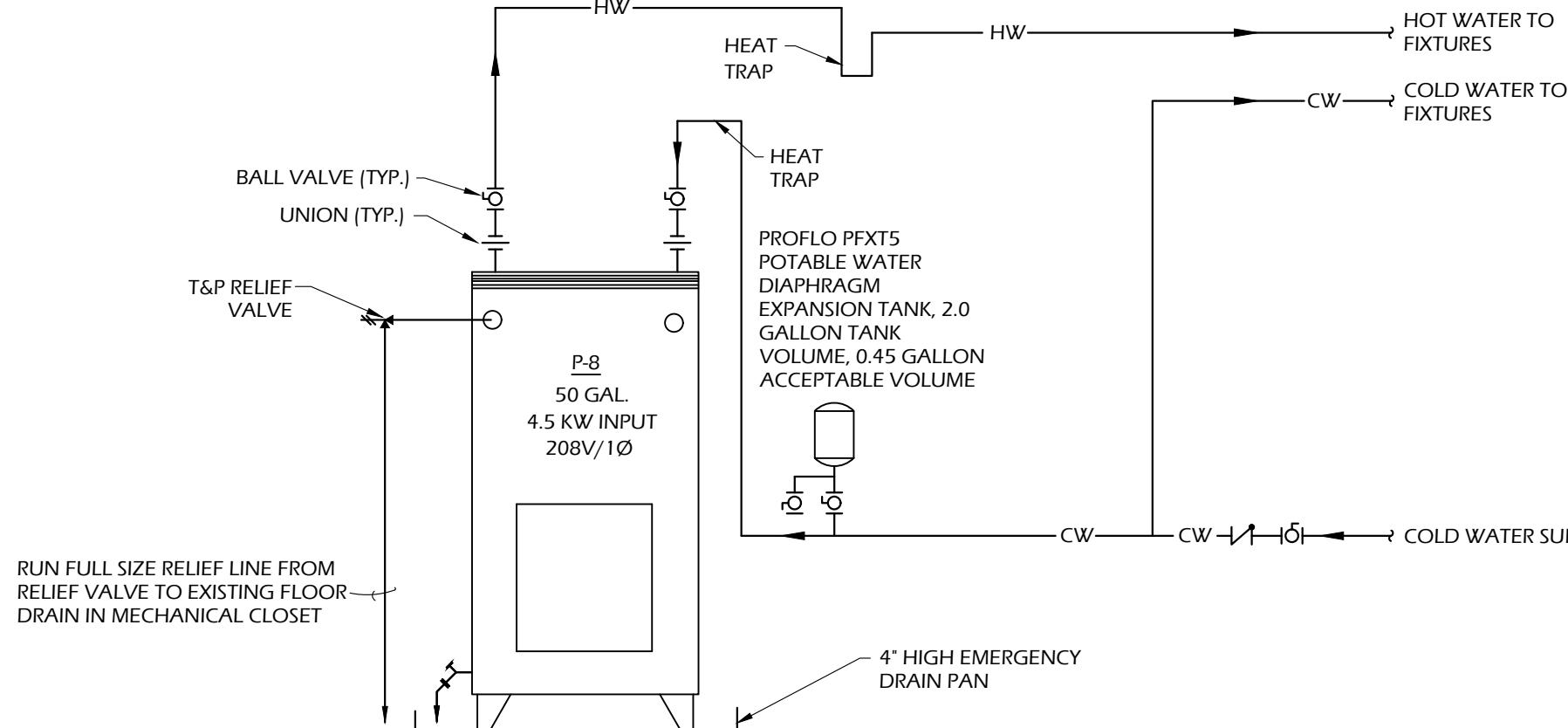
B WATER RISER DETAIL - 2 FLOORS

M1.1 SCALE: NTS

D SANITIZING UNIT DETAIL

M1.1 SCALE: NTS

SANITIZING UNIT TO BE INSTALLED BY PLUMBING CONTRACTOR. VERIFY INSTALLATION INSTRUCTIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
PLUMBING CONTRACTOR RESPONSIBLE FOR PROVIDING ALL SHUT OFF VALVES AND REDUCED PRESSURE BACKFLOW PREVENTER.
UNIT IS SUPPLIED WITH FILL BOTTLE, 3/4" SOLENOID VALVE AND FLUSHING SPRAY NOZZLE. THESE ITEMS ARE INSTALLED BY PLUMBING CONTRACTOR.
PLUMBING CONTRACTOR TO VERIFY WITH GENERAL CONTRACTOR FINAL EQUIPMENT LAYOUT PRIOR TO INSTALLATION



PLUMBING FIXTURE SCHEDULE					
SYM	DESCRIPTION	COLD	HOT	WASTE	VENT
P-1	WATER CLOSET (FT)	1/2"	---	4"	2"
P-2	LAVATORY [1]	1/2"	1/2"	1-1/2"	1-1/2"
P-3	SHOWER STALL	1/2"	1/2"	2"	2"
P-4	BATHTUB (60"x30")	1/2"	1/2"	2"	2"
P-5	KITCHEN SINK	1/2"	1/2"	2"	1-1/2"
P-6	DISHWASHER	---	1/2"	3/4"	---
P-7	CLOTHES WASHER VALVE BOX	1/2"	1/2"	2"	1-1/2"
P-8	WATER HEATER (50 Gal., 4.5kw, 208/1Ø) [2]	1"	1"	---	---
P-9	REFRIGERATOR VALVE BOX	1/2"	---	---	---
P-10	HOSE BIBB	3/4"	---	---	---
P-11	WATER CLOSET (FT, ADA) [3]	1/2"	---	4"	2"
P-12	LAVATORY (ADA) [1]	1/2"	1/2"	1-1/2"	1-1/2"
P-13	BATHTUB (ADA, 60"x30")	1/2"	1/2"	2"	2"
P-14	FLOOR DRAIN	---	---	2"	2"
P-15	SHOWER STALL (ADA)	1/2"	1/2"	2"	2"
P-16	JANITORS SINK	1/2"	1/2"	3"	2"
P-17	WATER HEATER (50 Gal., 4.5kw, 208/1Ø) [2]	1"	1"	---	---
P-18	DOG WASH	1/2"	1/2"	4"	2"
P-19	KITCHEN SINK (ADA)	1/2"	1/2"	2"	1-1/2"
P-20	LOUNGE SINK	1/2"	1/2"	2"	1-1/2"
P-21	OUTDOOR SINK	1/2"	---	2"	1-1/2"
P-22	ROOF HYDRANT	3/4"	---	---	---
P-23	BIKE WASH SINK	1/2"	---	4"	2"
P-24	INSTANTANEOUS WATER HEATER	1/2"	1/2"	---	---
P-25	WATER COOLER (ADA)	1/2"	---	2"	1-1/2"

- [1] INSTALL HANDLE LIMIT STOP KIT WITHIN SINGLE LEVER MIXING FAUCET TO LIMIT OUTLET HOT WATER SUPPLY TEMPERATURE TO 120°F.
[2] VERIFY ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDER.
[3] FLUSH CONTROLS TO BE ON OPEN SIDE, 15° TO 19° RIM HEIGHT REQUIRED.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
— CW —	COLD WATER PIPING
— HW 140° —	HOT WATER PIPING
— HWR —	HOT WATER RETURN PIPING
— THW —	TEMPERED HOT WATER PIPING
— WASTE —	WASTE PIPING
— GW —	WASTE PIPING
— VENT —	VENT PIPING
— G —	LOW PRESSURE GAS PIPING
— MPG —	MEDIUM PRESSURE GAS PIPING
P. #	PLUMBING FIXTURE IDENTIFICATION
—	PIPE BREAK
○	PIPE RISE
←	PIPE DROP
●	VENT THROUGH ROOF
○	FLOOR DRAIN
■	FLOOR SINK
	UNION
□	PUMP
○	BALL VALVE
↗	CHECK VALVE
○○	CIRCUIT SETTER
↗↗	PRESSURE REDUCING VALVE
—○—	DOUBLE CHECK BACKFLOW PREVENTER
↗↑	PRESSURE RELIEF VALVE
○○	EQUIPMENT CALLOUT

ISSUE DATE: MAR 15, 2024

PROJECT STATUS: DESIGN DEVELOPMENT

REVISIONS:

DESCRIPTION
DATE
#

STAMP: ZEC

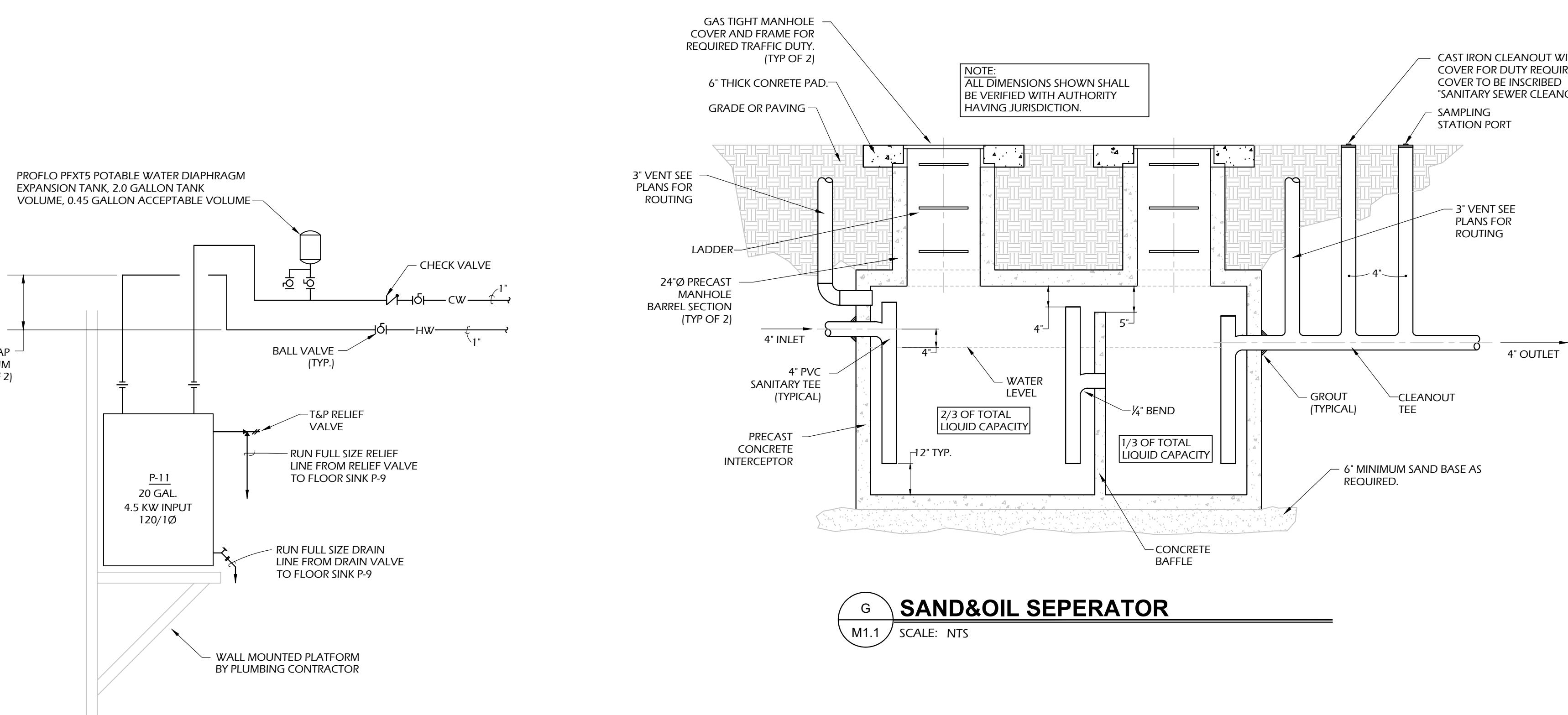
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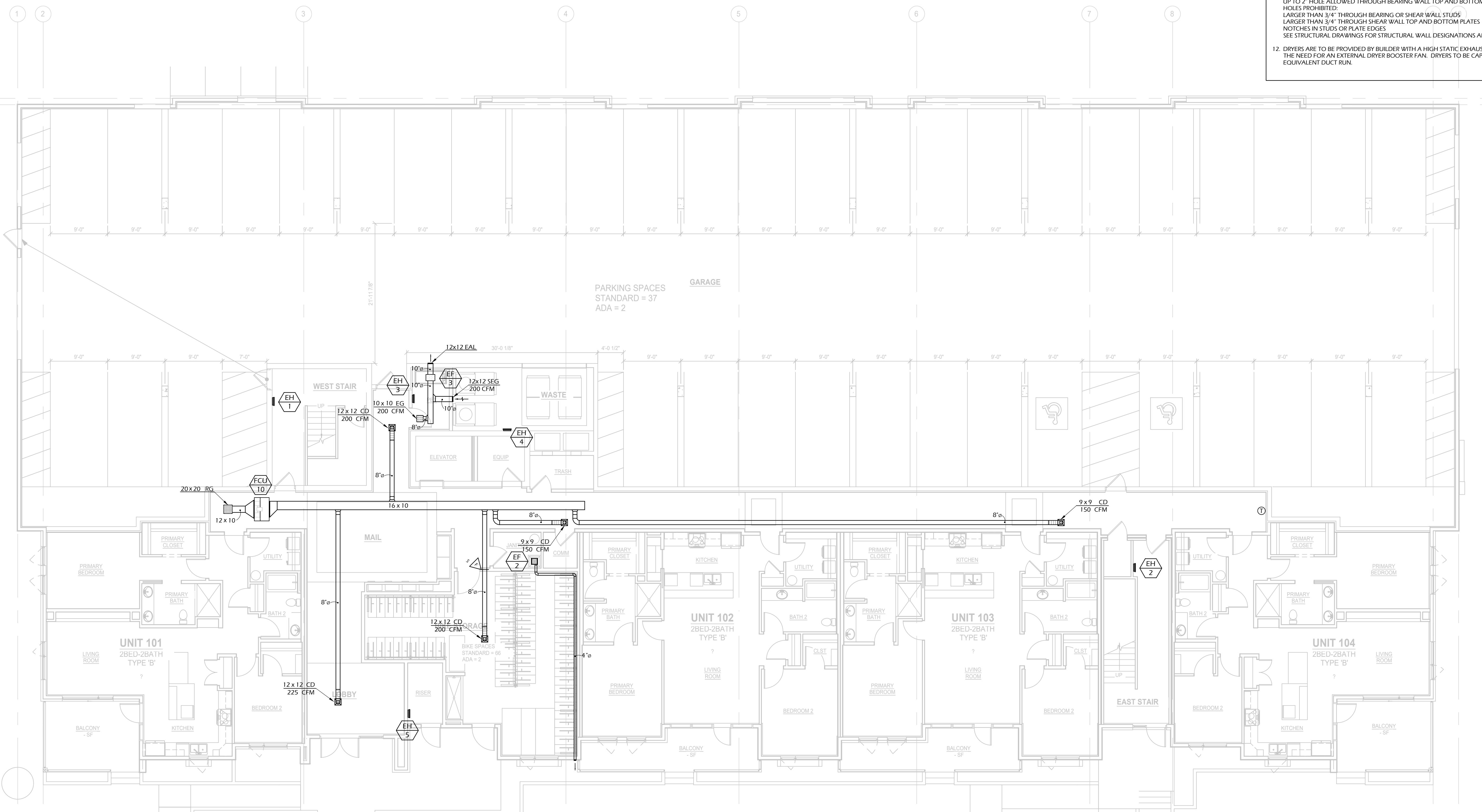
THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME: PLUMBING COVER SHEET

SHEET NUMBER: M1.1





1 HVAC PLAN - 1ST FLOOR

8 6 4 2 0 8 16 24

TIKKER
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A MECHANICAL CONSULTING FIRM
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Suite 100
Boise, ID 83709
Phone: (208) 658-0218
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JOB # 24024

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

HVAC PLAN - 1ST FLOOR

SHEET NUMBER

M2.1

ISSUE DATE
MAR 15, 2024

PROJECT STATUS
DESIGN
DEVELOPMENT

REVISIONS	DESCRIPTION

DATE

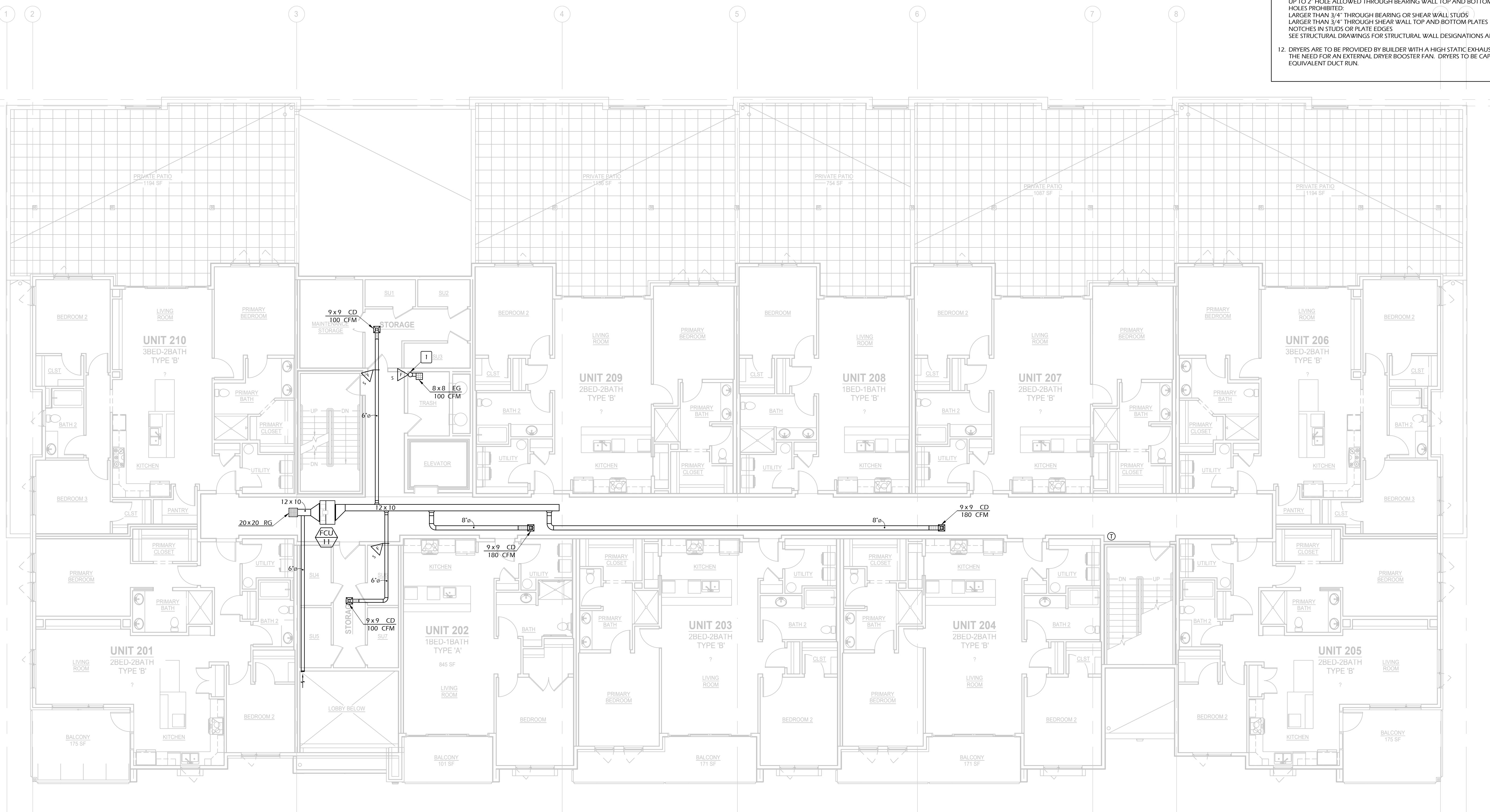
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HVAC PLAN - 2ND FLOOR

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

The diagram shows a sequence of binary digits (bits) from 0 to 16. The bits are represented by black and white squares in a row. Above the row, the values 8, 6, 4, 2, 0 are listed, followed by a vertical line, then the value 8, another vertical line, and finally the value 16.



Key Notes

- 6"Ø EXHAUST DUCT FROM BELOW TO TRANSITION TO A 8"Ø EXHAUST DUCT UP TO THIRD FLOOR. PROVIDE 1 HOUR FIRE/SMOKE DAMPER AT FLOOR/CEILING PENETRATION BETWEEN FLOORS. CONNECT 6"Ø EXHAUST DUCT SERVING TRASH ROOM TO 8"Ø EXHAUST DUCT UP.

General Notes

- COORDINATE EXACT LOCATION OF DIFFUSERS & GRILLES WITH REFLECTED CEILING & LIGHTING LAYOUTS.

COORDINATE HVAC EQUIPMENT WITH ALL OTHER TRADES AS REQUIRED.

ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DIMENSIONS.

SEAL ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES WITH U.L. APPROVED FIRE-RATED SYSTEM.

ROUND DUCT, FLEX DUCT OR RECTANGULAR DUCT MAY BE SUBSTITUTED FOR DUCT SIZES SHOWN ON PLANS PROVIDED EQUIVALENT AIR PRESSURE DROPS ARE MAINTAINED.

WHERE DUCTWORK PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN DUCT AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION.

COORDINATE ALL DUCTWORK PENETRATIONS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL PLANS AND DETAILS PRIOR TO ANY PENETRATIONS BEING MADE.

KITCHEN HOODS TO BE RE-CIRCULATING WITH CHARCOAL FILTER.

MECHANICAL CONTRACTOR IS REQUIRED TO HAVE FIRE DAMPER INSTALLATION INSTRUCTIONS ON SITE FOR FRAMING INSPECTION OF DAMPER.

. INTAKE AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN.

. DO NOT CUT, DRILL, OR OTHERWISE MODIFY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER. FOLLOW JOIST MANUFACTURER'S REQUIREMENTS FOR PENETRATIONS THROUGH I-JOISTS. NO CONNECTOR LARGER THAN 1/4" IS ALLOWED INTO ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS MANUFACTURER. SEE STRUCTURAL DETAILS OR TRUSS MANUFACTURER'S DETAILS FOR SEISMIC BRACING ATTACHMENT.

ALLOWABLE ROUND HOLES IN STRUCTURAL WALLS:
3/4" HOLE CENTERED IN STUD OR PLATE WIDTH IS ALLOWED AT ANY LOCATION
UP TO 2" HOLE ALLOWED THROUGH BEARING WALL TOP AND BOTTOM PLATES
HOLES PROHIBITED:
LARGER THAN 3/4" THROUGH BEARING OR SHEAR WALL STUDS
LARGER THAN 3/4" THROUGH SHEAR WALL TOP AND BOTTOM PLATES
NOTCHES IN STUDS OR PLATE EDGES
SEE STRUCTURAL DRAWINGS FOR STRUCTURAL WALL DESIGNATIONS AND LOCATIONS

. DRYERS ARE TO BE PROVIDED BY BUILDER WITH A HIGH STATIC EXHAUST MOTOR BUILT IN. THIS WILL ELIMINATE THE NEED FOR AN EXTERNAL DRYER BOOSTER FAN. DRYERS TO BE CAPABLE OF HANDLING 100'-0" OF EQUIVALENT DUCT RUN.

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE ID 83716

SHEET M

HVAC PLAN - 2ND FLOOR

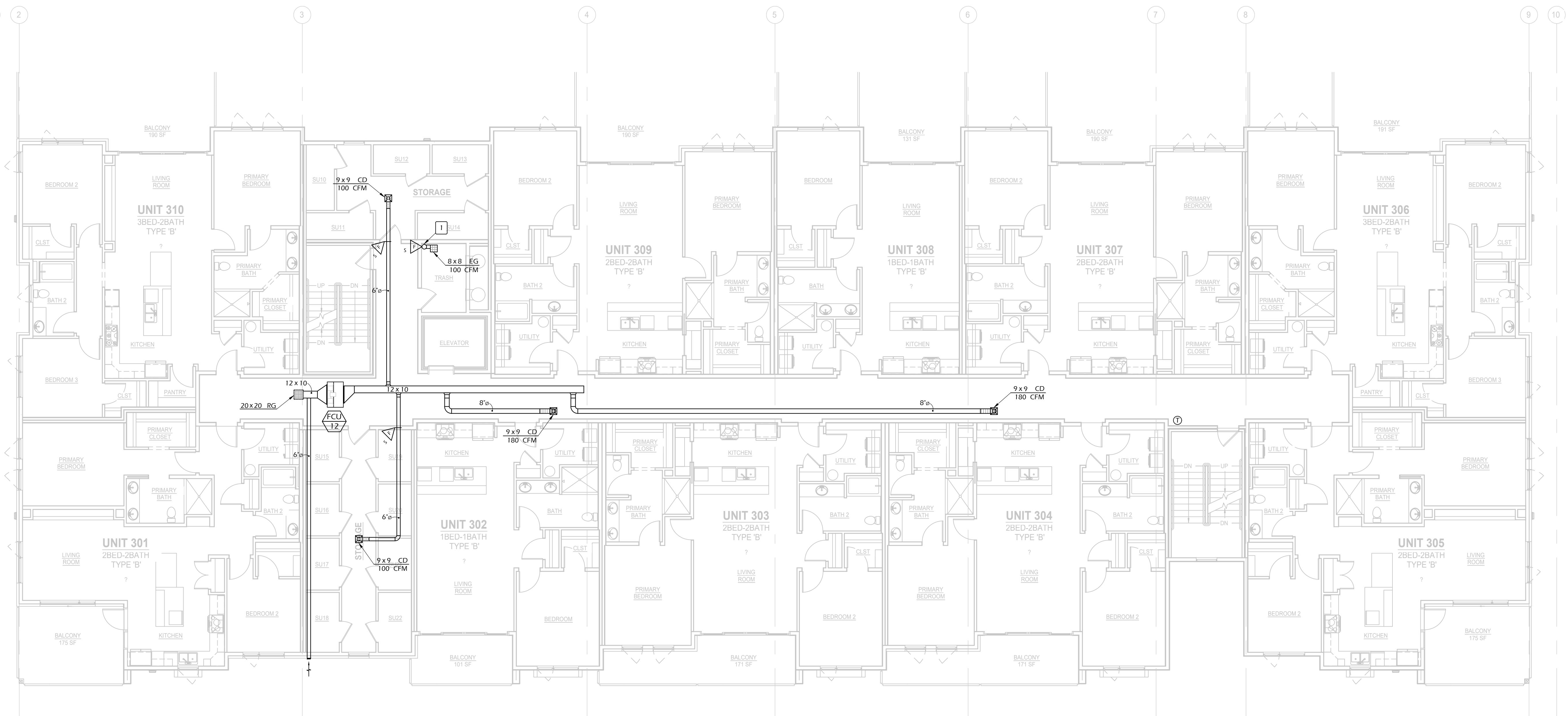
SHEET N



JOB # 24024

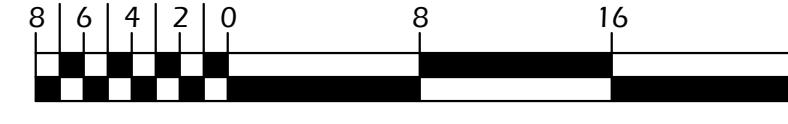
M2.2

M2.2



1 HVAC PLAN - 3RD FLOOR

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



Key Notes

1. 8'Ø EXHAUST DUCT FROM BELOW TO TRANSITION TO A 10'Ø EXHAUST DUCT. PROVIDE 1 HOUR FIRE/SMOKE DAMPER AT FLOOR/CEILING PENETRATION BETWEEN FLOORS. CONNECT 6'Ø EXHAUST DUCT SERVING TRASH ROOM TO 10'Ø EXHAUST DUCT.

General Notes

1. COORDINATE EXACT LOCATION OF DIFFUSERS & GRILLES WITH REFLECTED CEILING & LIGHTING LAYOUTS.
2. COORDINATE HVAC EQUIPMENT WITH ALL OTHER TRADES AS REQUIRED.
3. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DIMENSIONS.
4. SEAL ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES WITH U.L. APPROVED FIRE-RATED SYSTEM.
5. ROUND DUCT, FLEX DUCT OR RECTANGULAR DUCT MAY BE SUBSTITUTED FOR DUCT SIZES SHOWN ON PLANS PROVIDED EQUIVALENT AIR PRESSURE DROPS ARE MAINTAINED.
6. WHERE DUCTWORK PENETRATES FIRE-RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN DUCT AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION.
7. COORDINATE ALL DUCTWORK PENETRATIONS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL PLANS AND DETAILS PRIOR TO ANY PENETRATIONS BEING MADE.
8. KITCHEN HOODS TO BE RE-CIRCULATING WITH CHARCOAL FILTER.
9. MECHANICAL CONTRACTOR IS REQUIRED TO HAVE FIRE DAMPER INSTALLATION INSTRUCTIONS ON SITE FOR FRAMING INSPECTION OF DAMPER.
10. INTAKE AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN.
11. DO NOT CUT, DRILL, OR OTHERWISE MODIFY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER. FOLLOW JOIST MANUFACTURER'S REQUIREMENTS FOR PENETRATIONS THROUGH I-JOISTS. NO CONNECTOR LARGER THAN 1/4" IS ALLOWED INTO ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS MANUFACTURER. SEE STRUCTURAL DETAILS OR TRUSS MANUFACTURER'S DETAILS FOR SEISMIC BRACING ATTACHMENT.
12. ALLOWABLE ROUND HOLES IN STRUCTURAL WALLS:
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UP TO 2" HOLE ALLOWED THROUGH BEARING WALL TOP AND BOTTOM PLATES
HOLES PROHIBITED:
LARGE HOLE 3/4" THROUGH BEARING OR SHEAR WALL STUDS
LARGER THAN 1/4" THROUGH SHEAR WALL TOP AND BOTTOM PLATES
NOTCHES IN STUDS OR PLATE EDGES
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S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

HVAC PLAN - 3RD FLOOR

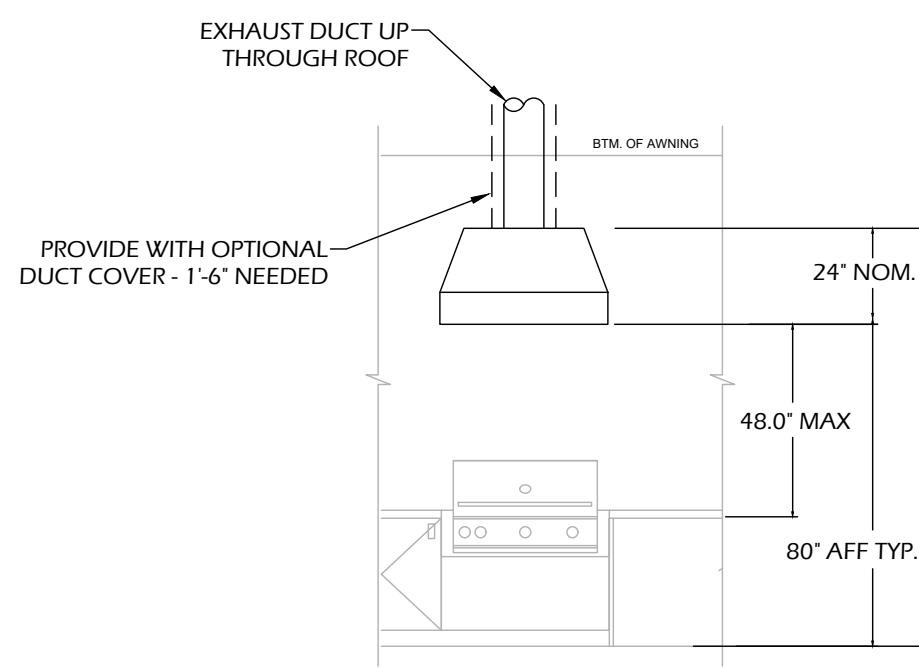
SHEET NUMBER

M2.3

DESCRIPTION
DATE
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ISSUE DATE MAR 15, 2024
PROJECT STATUS DESIGN DEVELOPMENT
REVISIONS



Key Notes

1. 8'Ø EXHAUST DUCT FROM BELOW TO TRANSITION TO A 10'Ø EXHAUST DUCT. PROVIDE 1 HOUR FIRE/SMOKE DAMPER AT FLOOR/CEILING PENETRATION BETWEEN FLOORS. CONNECT 6'Ø EXHAUST DUCT SERVING TRASH ROOM TO 10'Ø EXHAUST DUCT.
2. 10'Ø EXHAUST DUCT UP TO ROOFCAP.
- 3.
- 4.
- 5.

General Notes

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LARGER THAN 1/4" THROUGH SHEAR WALL TOP AND BOTTOM PLATES
NOTCHES IN STUDS OR PLATE EDGES
SEE STRUCTURAL DRAWINGS FOR STRUCTURAL WALL DESIGNATIONS AND LOCATIONS

ISSUE DATE
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PROJECT STATUS
DESIGN DEVELOPMENT

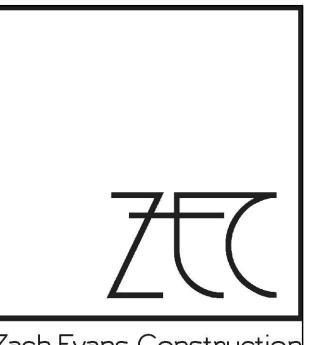
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THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

HVAC PLAN - 4TH FLOOR

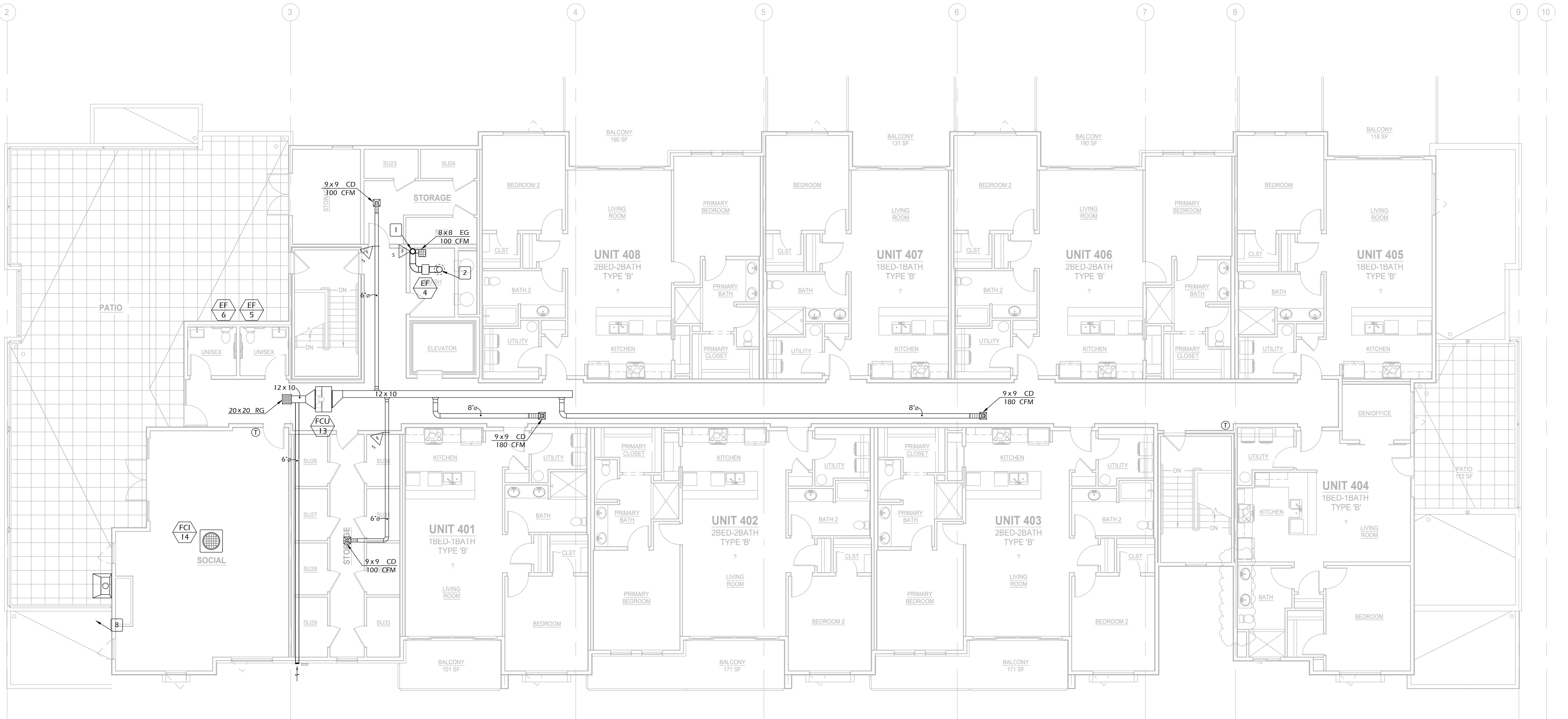
SHEET NUMBER

M2.4

A BBQ HOD DETAIL

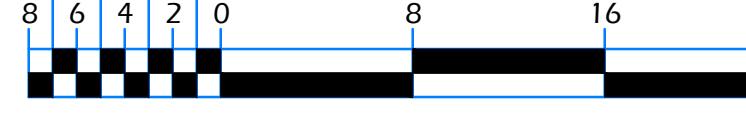
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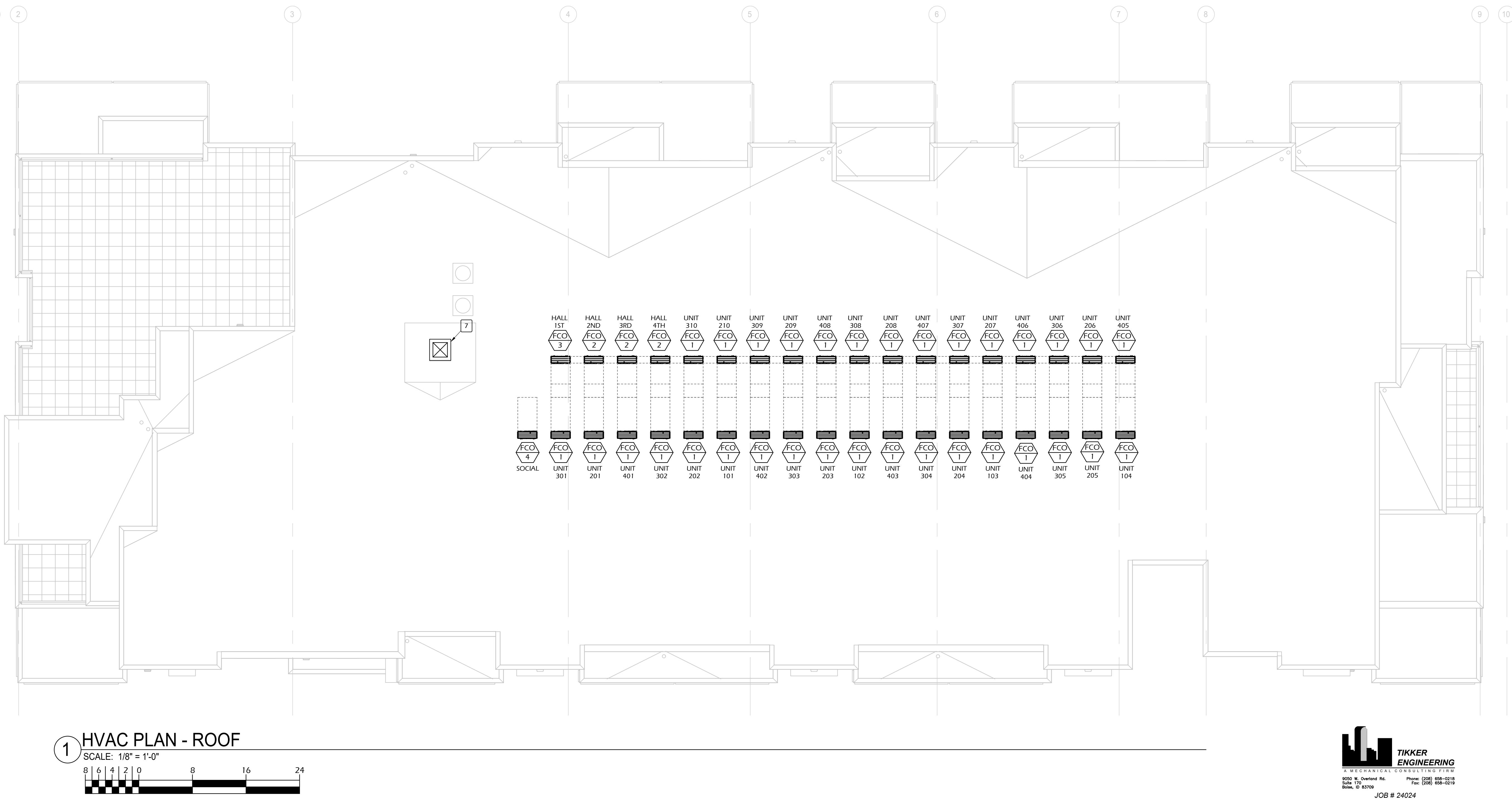
SCALE: NTS



1 HVAC PLAN - 4TH FLOOR

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





ISSUE DATE	MAR 15, 2024
PROJECT STATUS	DESIGN DEVELOPMENT
REVISIONS	
DESCRIPTION	
DATE	
#	
STAMP	

ZEC

Zach Evans Construction
7761 W. RIVERSIDE DR.
SUITE #100
BOISE, ID 83714
PHONE: (208) 853-1205

THE QUARTER AT HARRIS RANCH

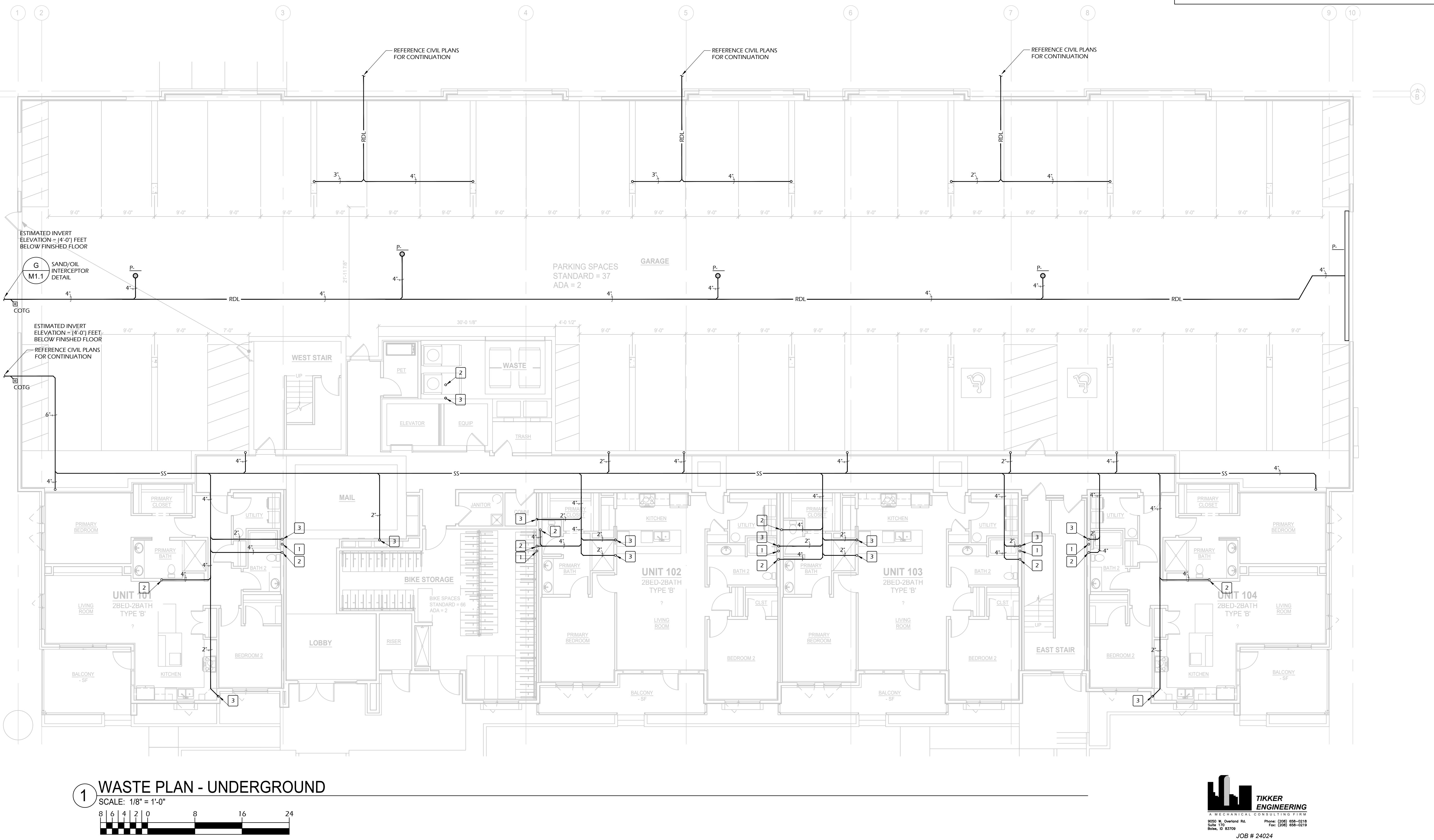
S. HOPES WELL AVE
BOISE, ID 83716

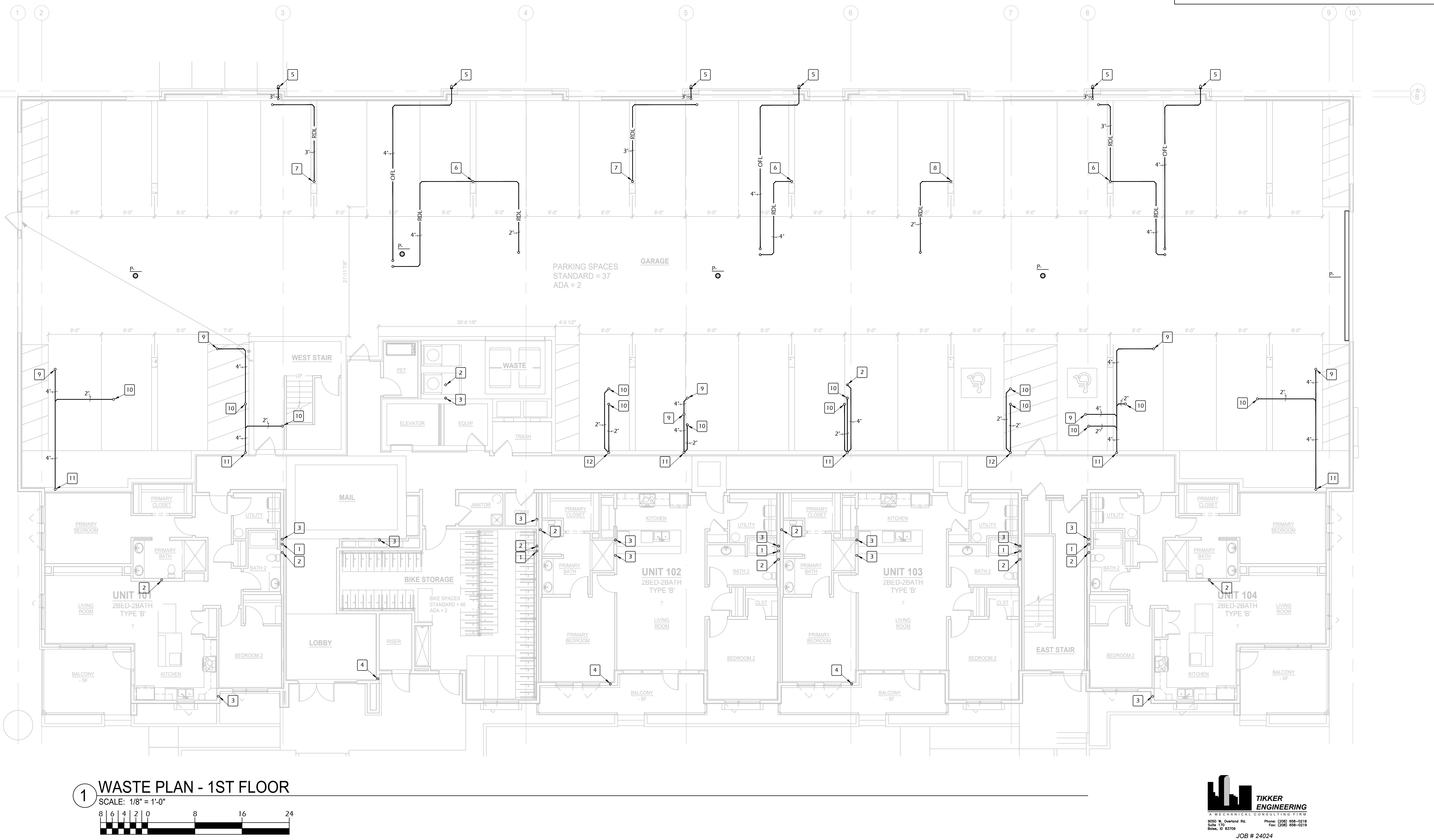
SHEET NAME

HVAC PLAN - ROOF

SHEET NUMBER

M2.5





THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

WASTE PLAN - 1ST FLOOR

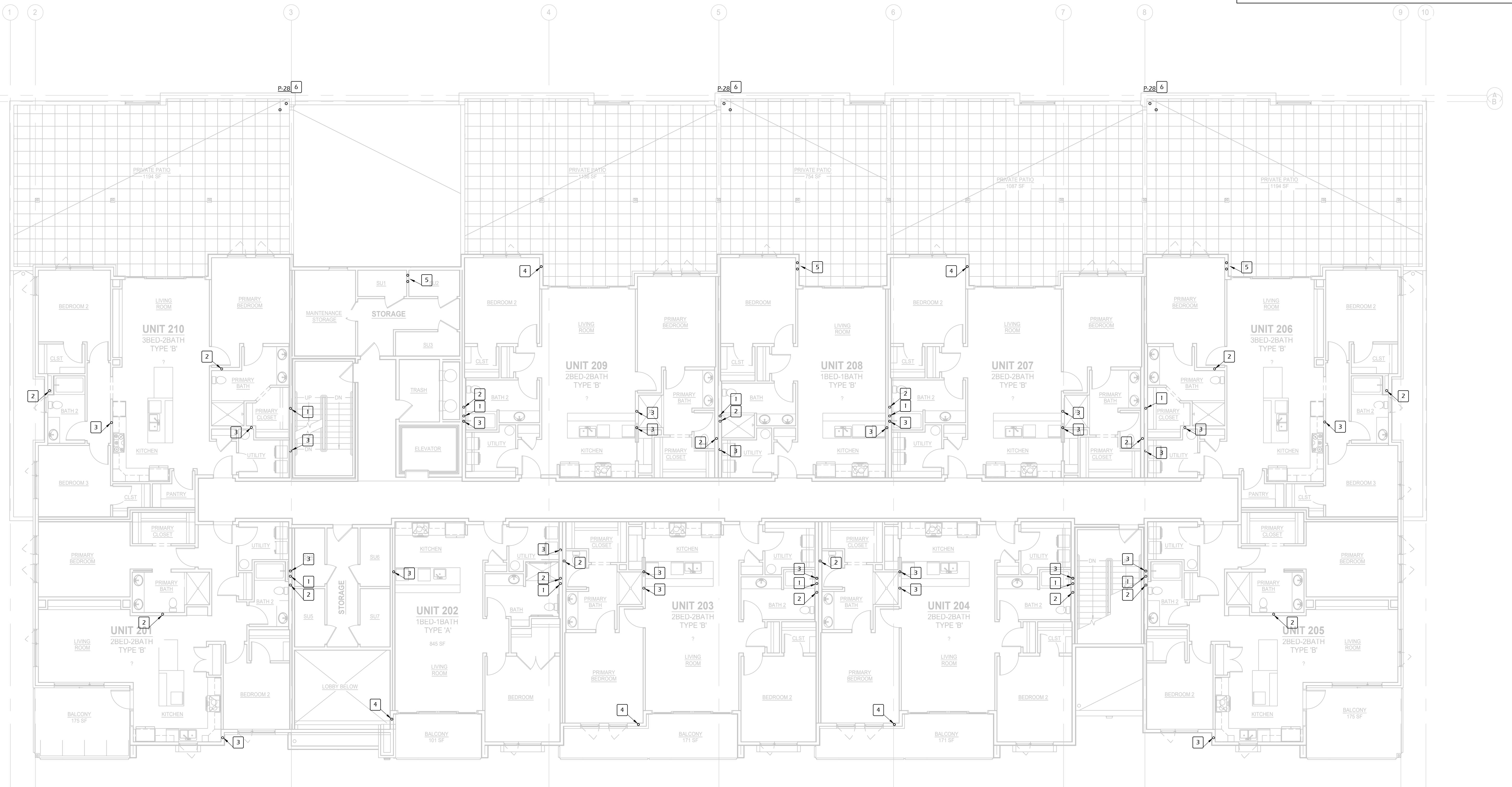
SHEET NUMBER

M3.1

DESIGN DEVELOPMENT	
PROJECT STATUS	DESIGN DEVELOPMENT
REVISIONS	
DESCRIPTION	
DATE	
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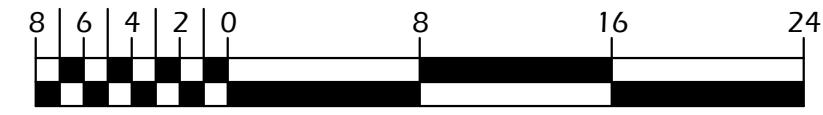
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PROJECT STATUS	DESIGN DEVELOPMENT
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DESCRIPTION	
DATE	
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STAMP	ZEC
Zach Evans Construction	7761 W. RIVERSIDE DR. SUITE #100 BOISE, ID 83714 PHONE: (208) 853-1205

DESIGN DEVELOPMENT	
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REVISIONS	
DESCRIPTION	
DATE	
#	
STAMP	ZEC
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WASTE PLAN - 2ND FLOOR

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



Key Notes

1. 3" VENT LINE STACK.
2. 4" WASTE LINE STACK DOWN.
3. 2" WASTE LINE STACK DOWN.
4. 2" ROOF DRAIN LINE DOWN.
5. 4" ROOF DRAIN LINE AND 4" OVERFLOW DRAIN LINE DOWN.
6. 2" ROOF DRAIN. 2" OVERFLOW DRAIN.

General Notes

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL PRINTS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
3. WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/8" PER FOOT. ALL WASTE PIPING 4" AND LARGER IS TO BE INSTALLED AT 1/8" SLOPE PER FOOT PENDING VERIFICATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES.
5. INSTALL ALL VERTICAL WASTE AND VENT LINES PER CODE. SUDS RELIEF IS REQUIRED ON PROJECT PER IDAHO STATE PLUMBING CODE SECTION 711.0.
6. COORDINATE ALL PIPING PENETRATIONS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL PLANS AND DETAILS PRIOR TO ANY PENETRATIONS BEING MADE.
7. DO NOT CUT, DRILL, OR OTHERWISE MODIFY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER. FOLLOW JOIST MANUFACTURER'S REQUIREMENTS FOR PENETRATIONS THROUGH I-JOISTS. NO CONNECTOR LARGER THAN 1/4" IS ALLOWED INTO ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS MANUFACTURER. SEE STRUCTURAL DETAILS OR TRUSS MANUFACTURER'S DETAILS FOR SEISMIC BRACING ATTACHMENT.

ALLOWABLE ROUND HOLES IN STRUCTURAL WALLS:
3/4" HOLE CENTERED IN STUD OR PLATE WIDTH IS ALLOWED AT ANY LOCATION
UP TO 2" HOLE IS ALLOWED THROUGH BEARING WALL TOP AND BOTTOM PLATES
HOLE DIAMETER IS ALLOWED THROUGH BEARING OR SHEAR WALL STUDS
LARGER THAN 3/4" THROUGH SHEAR WALL TOP AND BOTTOM PLATES
LARGER THAN 3/4" THROUGH SHEAR WALL STUDS
NOTCHES IN STUDS OR PLATE EDGES
SEE STRUCTURAL DRAWINGS FOR STRUCTURAL WALL DESIGNATIONS AND LOCATIONS

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

WASTE PLAN - 2ND FLOOR

SHEET NUMBER

M3.2

ISSUE DATE
MAR 15, 2024

PROJECT STATUS
DESIGN
DEVELOPMENT

DESCRIPTION	DATE	#
STAMP		



Key Notes	
1. 3' VENT LINE STACK. 2. 4" WASTE LINE STACK DOWN. 3. 2" WASTE LINE STACK DOWN. 4. 2" ROOF DRAIN LINE DOWN. 5. 4" ROOF DRAIN LINE AND 4" OVERFLOW DRAIN LINE DOWN.	

General Notes	
1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED. 2. REFERENCE ARCHITECTURAL PRINTS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS. 3. WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 4" AND LARGER IS TO BE INSTALLED AT 1/8" SLOPE PER FOOT PENDING VERIFICATION WITH LOCAL AUTHORITY HAVING JURISDICTION. 4. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES. 5. INSTALL ALL VERTICAL WASTE AND VENT LINES PER CODE. SUDS RELIEF IS REQUIRED ON PROJECT PER IDAHO STATE PLUMBING CODE SECTION 711.0. 6. COORDINATE ALL PIPING PENETRATIONS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL PLANS AND DETAILS PRIOR TO ANY PENETRATIONS BEING MADE. 7. DO NOT CUT, DRILL, OR OTHERWISE MODIFY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER. FOLLOW JOIST MANUFACTURER'S REQUIREMENTS FOR PENETRATIONS THROUGH I-JOISTS. NO CONNECTOR LARGER THAN 1/4" IS ALLOWED INTO ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS MANUFACTURER. SEE STRUCTURAL DETAILS OR TRUSS MANUFACTURER'S DETAILS FOR SEISMIC BRACING ATTACHMENT. ALLOWABLE ROUND HOLES IN STRUCTURAL WALLS: 3/4" HOLE CENTERED IN STUD OR PLATE WIDTH IS ALLOWED AT ANY LOCATION UP TO 2" HOLE ALLOWED THROUGH BEARING WALL TOP AND BOTTOM PLATES HOLLOW SPACES LARGER THAN 3/4" THROUGH BEARING OR SHEAR WALL STUDS LARGER THAN 3/4" THROUGH SHEAR WALL TOP AND BOTTOM PLATES NOTCHES IN STUDS OR PLATE EDGES SEE STRUCTURAL DRAWINGS FOR STRUCTURAL WALL DESIGNATIONS AND LOCATIONS	

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

WASTE PLAN - 3RD FLOOR

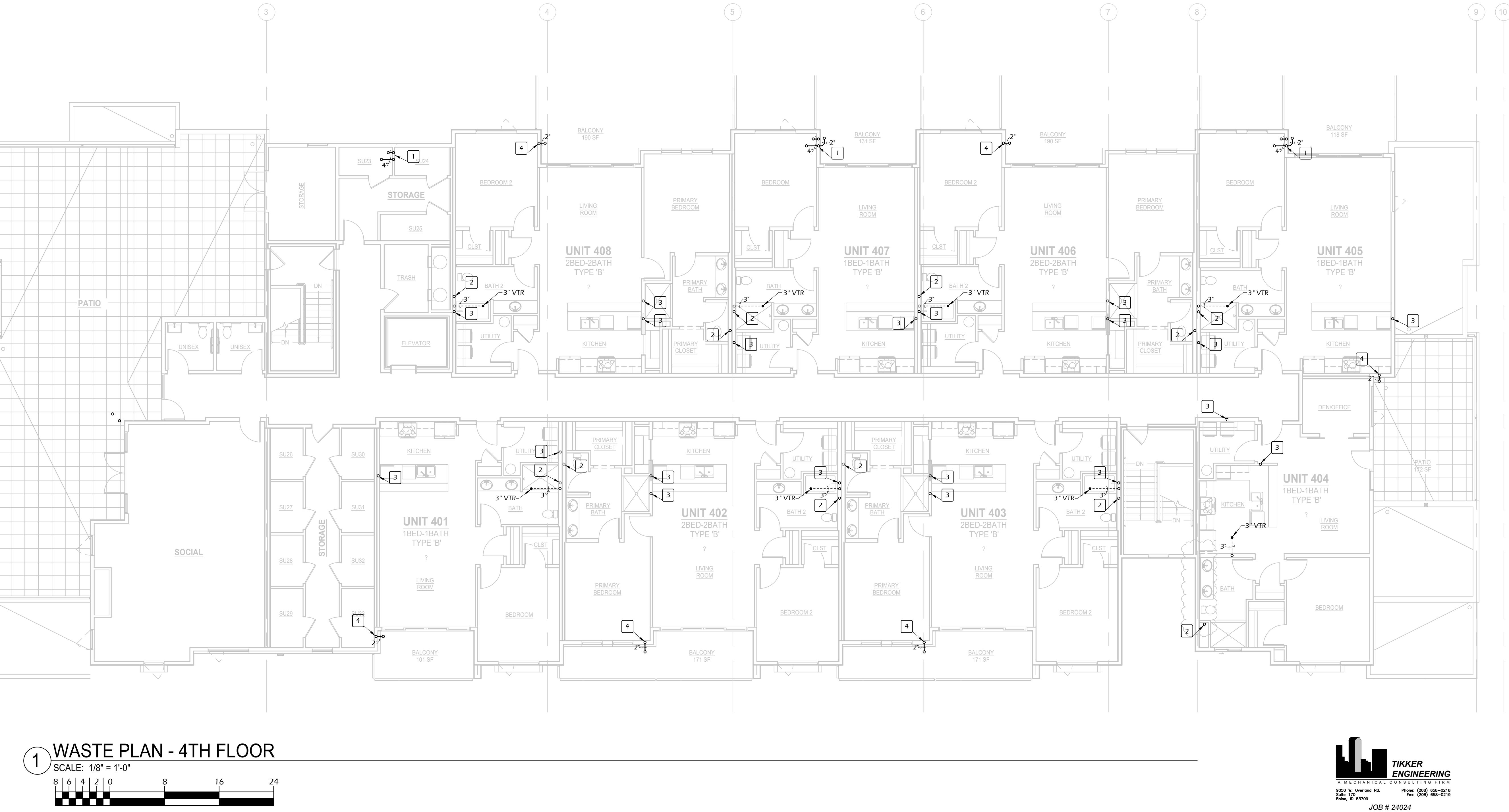
SHEET NUMBER

M3.3

DESCRIPTION	DATE	#	STAMP
Zach Evans Construction			

PROJECT STATUS	DESIGN DEVELOPMENT

ISSUE DATE	MAR 15, 2024
REVISIONS	



THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

WASTE PLAN - 4TH FLOOR

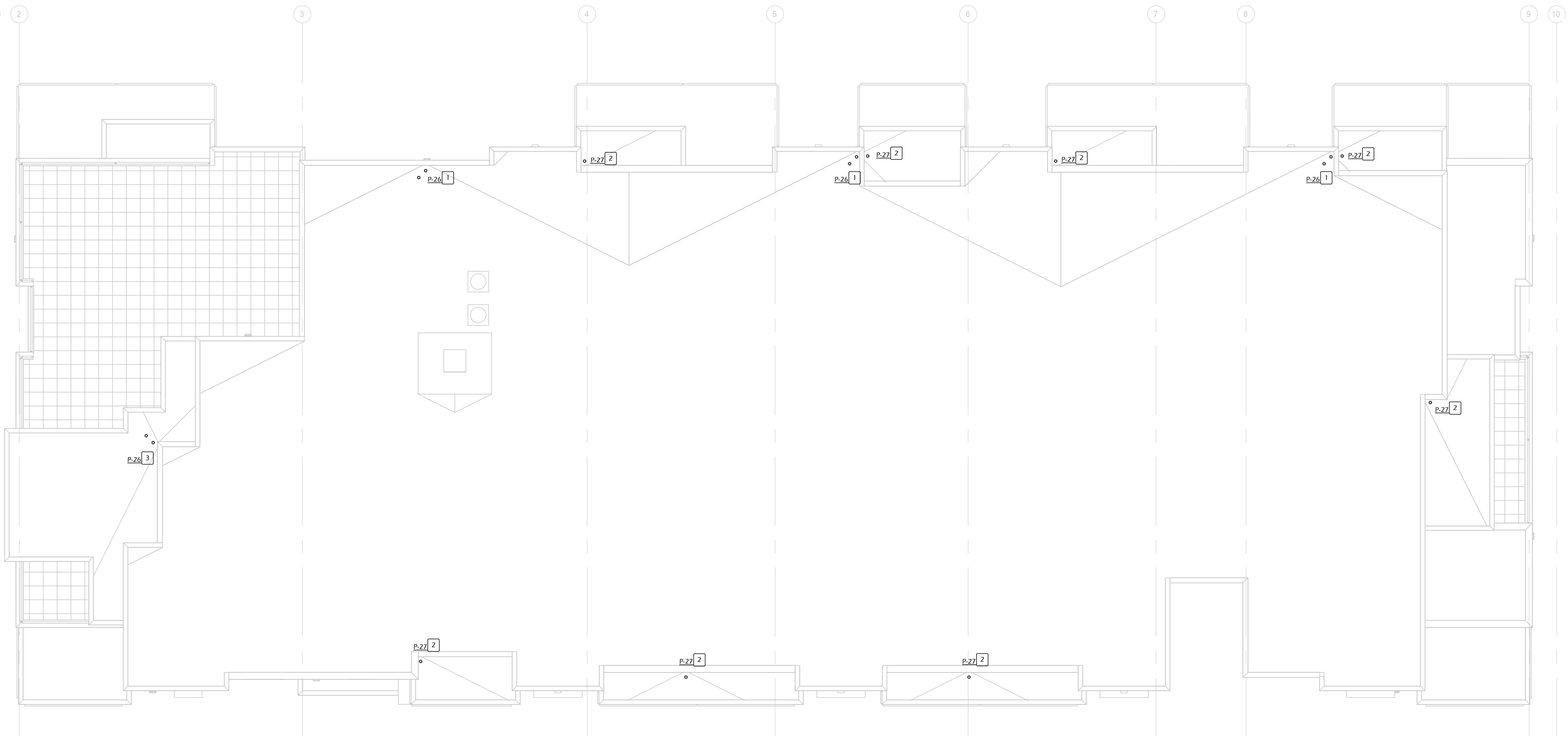
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M3.4

DESCRIPTION	DATE	#	STAMP
Zach Evans Construction			7EC

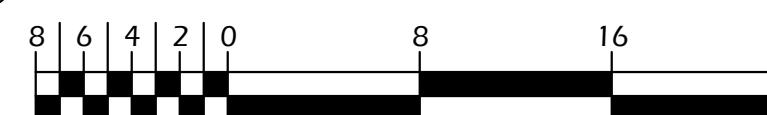
ISSUE DATE
MAR 15, 2024

PROJECT STATUS
DESIGN
DEVELOPMENT



WASTE PLAN - ROOF

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



Key Notes

1. 3' ROOF DRAIN. 3' OVERFLOW DRAIN.
2. 2' ROOF DRAIN. OVERFLOW DRAIN WILL BE A OPENING IN THE WALL.
3. 2' ROOF DRAIN. 2' OVERFLOW DRAIN.

General Notes

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL PRINTS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
3. WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/8" PER FOOT. ALL WASTE PIPING 4" AND LARGER IS TO BE INSTALLED AT 1/8" SLOPE PER FOOT PENDING VERIFICATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES.
5. INSTALL ALL VERTICAL WASTE AND VENT LINES PER CODE. SUDS RELIEF IS REQUIRED ON PROJECT PER IDAHO STATE PLUMBING CODE SECTION 711.0.
6. COORDINATE ALL PIPING PENETRATIONS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL PLANS AND DETAILS PRIOR TO ANY PENETRATIONS BEING MADE.
7. DO NOT CUT, DRILL, OR OTHERWISE MODIFY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER. FOLLOW JOIST MANUFACTURER'S REQUIREMENTS FOR PENETRATIONS THROUGH I-JOISTS. NO CONNECTOR LARGER THAN 1/4" IS ALLOWED INTO ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS MANUFACTURER. SEE STRUCTURAL DETAILS OR TRUSS MANUFACTURER'S DETAILS FOR SEISMIC BRACING ATTACHMENT.

ALLOWABLE ROUND HOLES IN STRUCTURAL WALLS:
3/4" HOLE CENTERED IN STUD OR PLATE WIDTH IS ALLOWED AT ANY LOCATION
UP TO 2" HOLE ALLOWED THROUGH BEARING WALL TOP AND BOTTOM PLATES
HOLE DIAMETER
LARGER THAN 3/4" THROUGH BEARING OR SHEAR WALL STUDS
LARGER THAN 3/4" THROUGH SHEAR WALL TOP AND BOTTOM PLATES
NOTCHES IN STUDS OR PLATE EDGES
SEE STRUCTURAL DRAWINGS FOR STRUCTURAL WALL DESIGNATIONS AND LOCATIONS

THE QUARTER AT HARRIS RANCH

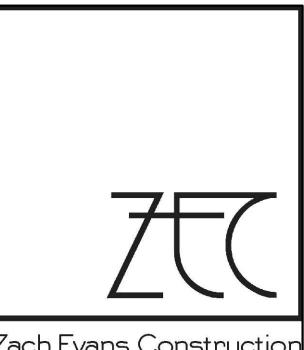
S. HOPES WELL AVE
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SHEET NAME

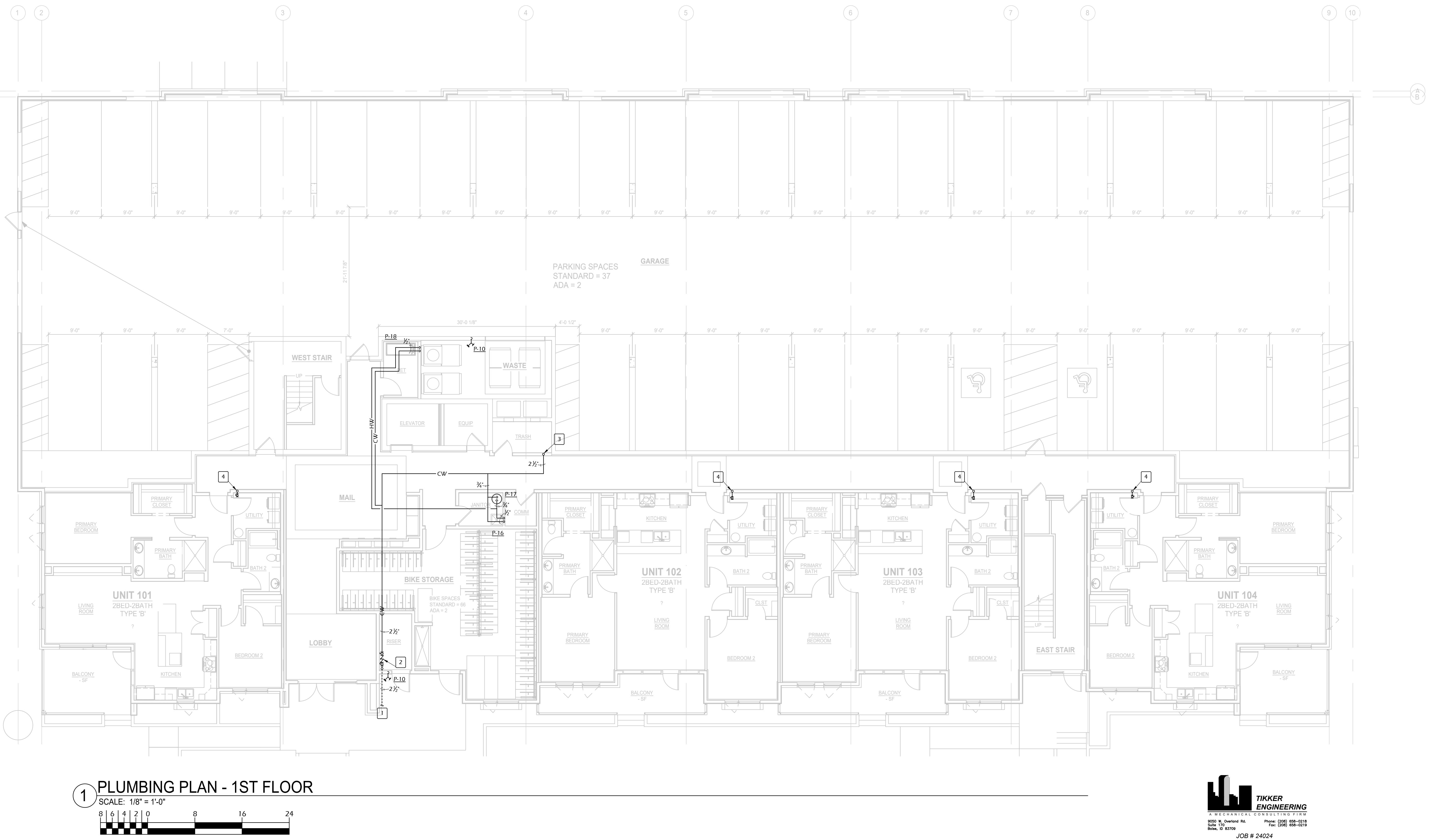
WASTE PLAN - ROOF

SHEET NUMBER

M3.5



Zach Evans Construction
7761 W. RIVERSIDE DR.
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BOISE, ID 83714
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THE QUARTER AT HARRIS RANCH

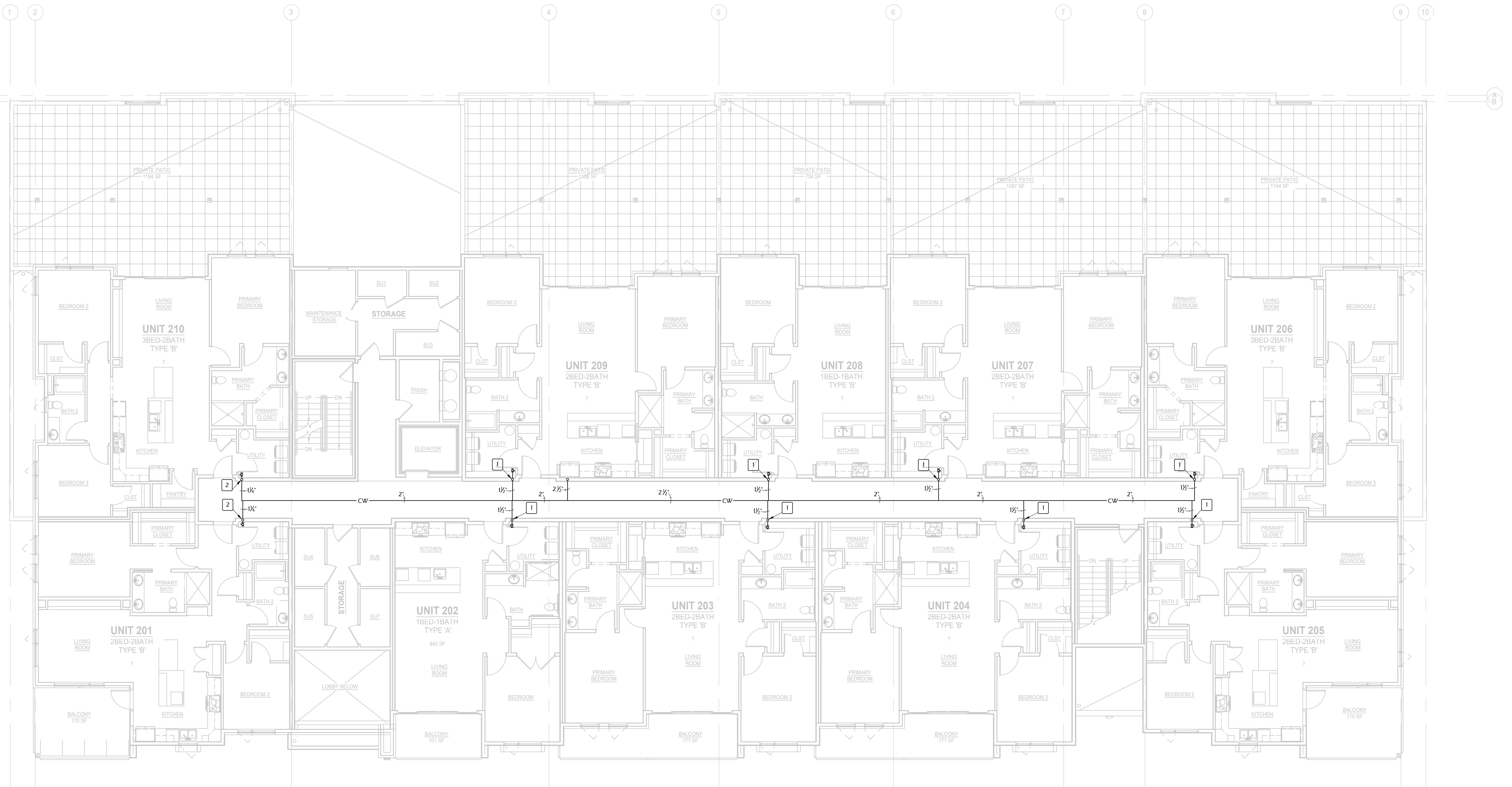
S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

PLUMBING PLAN - 1ST FLOOR

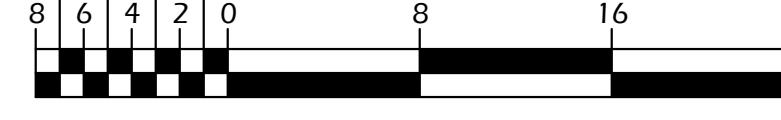
SHEET NUMBER

M4.1



PLUMBING PLAN - 2ND FLOOR

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



Key Notes

- 1-1/2" CW LINE UP IN WALL. REFERENCE RISER DETAIL 'A' SHEET M-1.1 FOR SIZING DETAILS.
- 1-1/4" CW LINE UP IN WALL. REFERENCE RISER DETAIL 'B' SHEET M-1.1 FOR SIZING DETAILS.

General Notes

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS & MOUNTING HEIGHTS.
3. LOCATE WATER PIPING IN HEATED AREAS ONLY. DO NOT LOCATE PIPING IN EXTERIOR WALLS OR UNINSULATED ROOF SPACES.
4. COORDINATE LOCATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.
5. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WALL WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COATED OR SOLID BRONZE COUPLING COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES.

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

PLUMBING PLAN -
2ND FLOOR

SHEET NUMBER

M4.2



1 PLUMBING PLAN - 3RD FLOOR
SCALE: 1/8" = 1' 0"

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

A number line starting at 0 and ending at 16. The line is divided into segments by tick marks every 2 units. Labeled tick marks include 8, 6, 4, 2, 0 on the left side, and 8, 16, 16 on the right side. The segments between labeled tick marks are shaded black.

Key Notes

1. 1-1/2" CW LINE UP IN WALL. REFERENCE RISER DETAIL 'A' SHEET M-1.1 FOR SIZING DETAILS.
2. 1-1/4" CW LINE UP IN WALL. REFERENCE RISER DETAIL 'B' SHEET M-1.1 FOR SIZING DETAILS.

General Notes

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS & MOUNTING HEIGHTS.
3. LOCATE WATER PIPING IN HEATED AREAS ONLY. DO NOT LOCATE PIPING IN EXTERIOR WALLS OR UNINSULATED ROOF SPACES.
4. COORDINATE LOCATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.
5. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES.

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

PLUMBING PLAN - 3RD FLOOR

SHEET NUM



M4.3

M4.3



Key Notes

1. 1-1/2" CW LINE UP IN WALL. REFERENCE RISER DETAIL A'SHEET M-1.1 FOR SIZING DETAILS.
2. REFERENCE ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS & MOUNTING HEIGHTS.
3. LOCATE WATER PIPING IN HEATED AREAS ONLY. DO NOT LOCATE PIPING IN EXTERIOR WALLS OR UNINSULATED ROOF SPACES.
4. COORDINATE LOCATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.
5. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WALL WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COATED OR SOLID COPPER COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES.

General Notes

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS & MOUNTING HEIGHTS.
3. LOCATE WATER PIPING IN HEATED AREAS ONLY. DO NOT LOCATE PIPING IN EXTERIOR WALLS OR UNINSULATED ROOF SPACES.
4. COORDINATE LOCATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.
5. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WALL WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COATED OR SOLID COPPER COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES.

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

REVISIONS	DESCRIPTION

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ZEC

ISSUE DATE
MAR 15, 2024

PROJECT STATUS
DESIGN DEVELOPMENT

SHEET NAME

PLUMBING PLAN - 4TH FLOOR

SHEET NUMBER

M4.4

ACOUSTICAL REPORT

MECHANICAL AND PLUMBING CONTRACTOR TO COORDINATE ALL FINAL BID NUMBERS WITH ACOUSTICAL REPORT AVAILABLE FROM ARCHITECT.

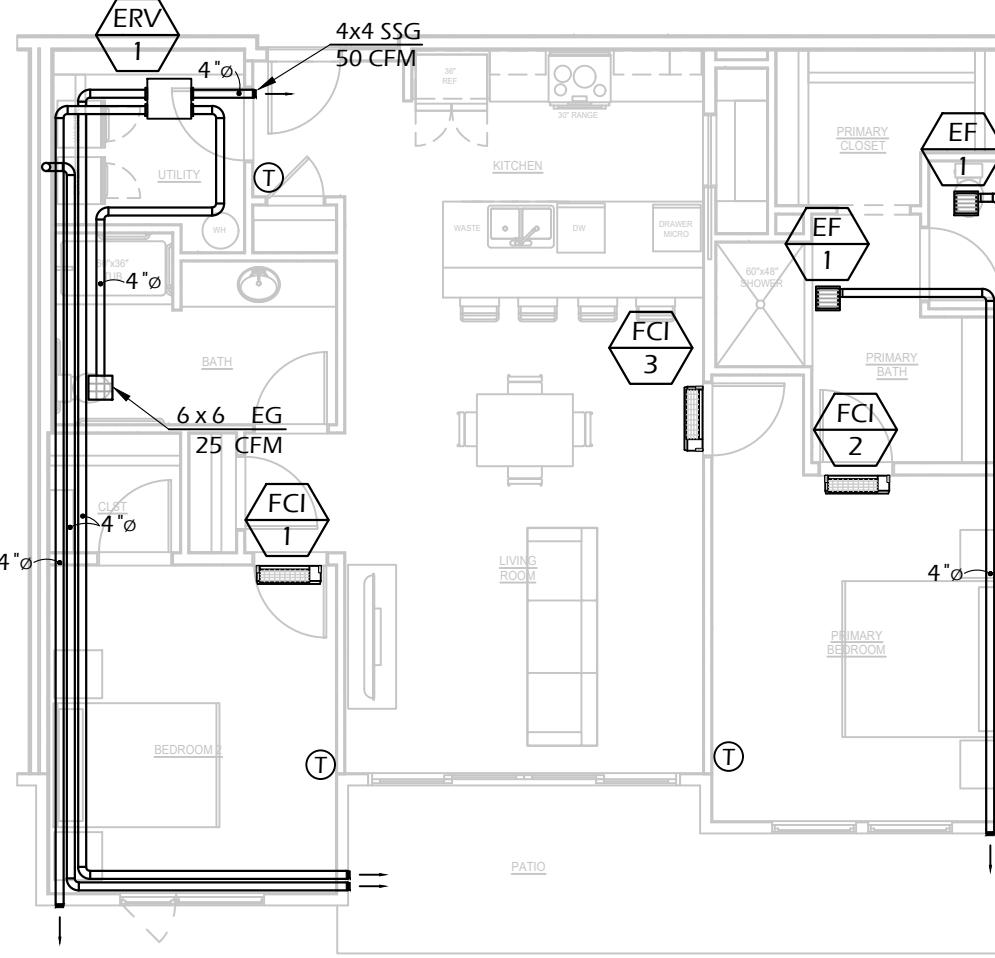
Ductwork Design Notes	
1. TOP FLOOR CEILING IS NOT A FIRE RATED ASSEMBLY THEREFORE FLEX CAN BE USED FOR EXHAUST FAN AND OUTSIDE AIR DUCTS WITH FOAM AIR SEAL WHERE IT PASSES THROUGH THE FIRE STOP UD. TOP FLOOR EXHAUST AND FRESH AIR DUCTWORK CAN ROUTE UP THROUGH ROOF. VERIFY FINAL DROP CEILING LOCATIONS WITH ARCHITECT PRIOR TO BID. 2. EXHAUST AND OUTSIDE AIR DUCTS THAT PASS THROUGH THE FLOOR/CEILING ASSEMBLY OF THE LOWER FLOORS SHALL BE A MINIMUM OF 26 GA. GALVANIZED STEEL SEALED. 3. WHERE THE 26 GA. GALVANIZED STEEL DUCT PASSES THROUGH THE DOUBLE SHEET ROCKED FIRE ASSEMBLY SHALL BE FIRE CAULKED. 4. EXHAUST AND OUTSIDE AIR DUCTS INSIDE FIRE-DOWNS ONLY CAN BE MANUFACTURED CLASS 1A FLEXIBLE DUCT OR DUCT CONNECTOR IF IT DOES NOT PASS THROUGH A WALL OR IS GREATER THAN 14 FEET LONG.	1. 4" x 4" DRYER EXHAUST DUCT. PROVIDE A LABEL OR TAG AT THE DRYER SIDE CONNECTION OF THE DRYER EXHAUST DUCT NOTING THE EQUIVALENT LENGTH OF THE DRYER EXHAUST DUCT SYSTEM. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS OR CODE FOR MAXIMUM DUCT LENGTH. 2. EXHAUST FAN TO BE MOUNTED AND EXHAUST DUCTWORK TO BE ROUTED IN DROPPED CEILING AREA. 3. DUCT TO BE RUN UP IN BETWEEN JOIST SPACE. SHEET ROCK CAVITY WILL BE CREATED SO THAT NO FIRE RATED ASSEMBLY IS PENETRATED. REFERENCE ARCHITECTURAL PLANS. 4. EXHAUST AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN. 5. INTAKE AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN.

Key Notes	
1. 4" x 4" DRYER EXHAUST DUCT. PROVIDE A LABEL OR TAG AT THE DRYER SIDE CONNECTION OF THE DRYER EXHAUST DUCT NOTING THE EQUIVALENT LENGTH OF THE DRYER EXHAUST DUCT SYSTEM. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS OR CODE FOR MAXIMUM DUCT LENGTH. 2. EXHAUST FAN TO BE MOUNTED AND EXHAUST DUCTWORK TO BE ROUTED IN DROPPED CEILING AREA. 3. DUCT TO BE RUN UP IN BETWEEN JOIST SPACE. SHEET ROCK CAVITY WILL BE CREATED SO THAT NO FIRE RATED ASSEMBLY IS PENETRATED. REFERENCE ARCHITECTURAL PLANS. 4. EXHAUST AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN. 5. INTAKE AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN.	1. COORDINATE EXACT LOCATION OF DIFFUSERS & GRILLES WITH REFLECTED CEILING & LIGHTING LAYOUTS. 2. COORDINATE HVAC EQUIPMENT WITH ALL OTHER TRADES AS REQUIRED. 3. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DIMENSIONS. 4. SEAL ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES WITH U.L. APPROVED FIRE-RATED SYSTEM. 5. ROUND DUCT, FLEX DUCT OR RECTANGULAR DUCT MAY BE SUBSTITUTED FOR DUCT SIZES SHOWN ON PLANS PROVIDED EQUIVALENT AIR PRESSURE DROPS ARE MAINTAINED. 6. WHERE DUCTWORK PENETRATES FIRE-RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN DUCT AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR SCUTCHON COVERS AT BOTH SIDES OF PENETRATION. 7. COORDINATE ALL DUCTWORK PENETRATIONS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL PLANS AND DETAILS PRIOR TO ANY PENETRATIONS BEING MADE. 8. KITCHEN HOODS TO BE RE-CIRCULATING WITH CHARCOAL FILTER. 9. MECHANICAL CONTRACTOR IS REQUIRED TO HAVE FIRE DAMPER INSTALLATION INSTRUCTIONS ON SITE FOR FRAMING INSPECTION OF DAMPER. 10. INTAKE AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN. 11. DO NOT CUT, DRILL, OR OTHERWISE MODIFY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER. FOLLOW JOIST MANUFACTURER'S REQUIREMENTS FOR PENETRATIONS THROUGH I-JOISTS. NO CONNECTOR LARGER THAN 1/4" IS ALLOWED INTO ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS MANUFACTURER. SEE STRUCTURAL DETAILS OR TRUSS MANUFACTURER'S DETAILS FOR SEISMIC BRACING ATTACHMENT. 12. DRYERS ARE TO BE PROVIDED BY BUILDER WITH A HIGH STATIC EXHAUST MOTOR BUILT IN. THIS WILL ELIMINATE THE NEED FOR AN EXTERNAL DRYER BOOSTER FAN. DRYERS TO BE CAPABLE OF HANDLING 100'-0" OF EQUIVALENT DUCT RUN.

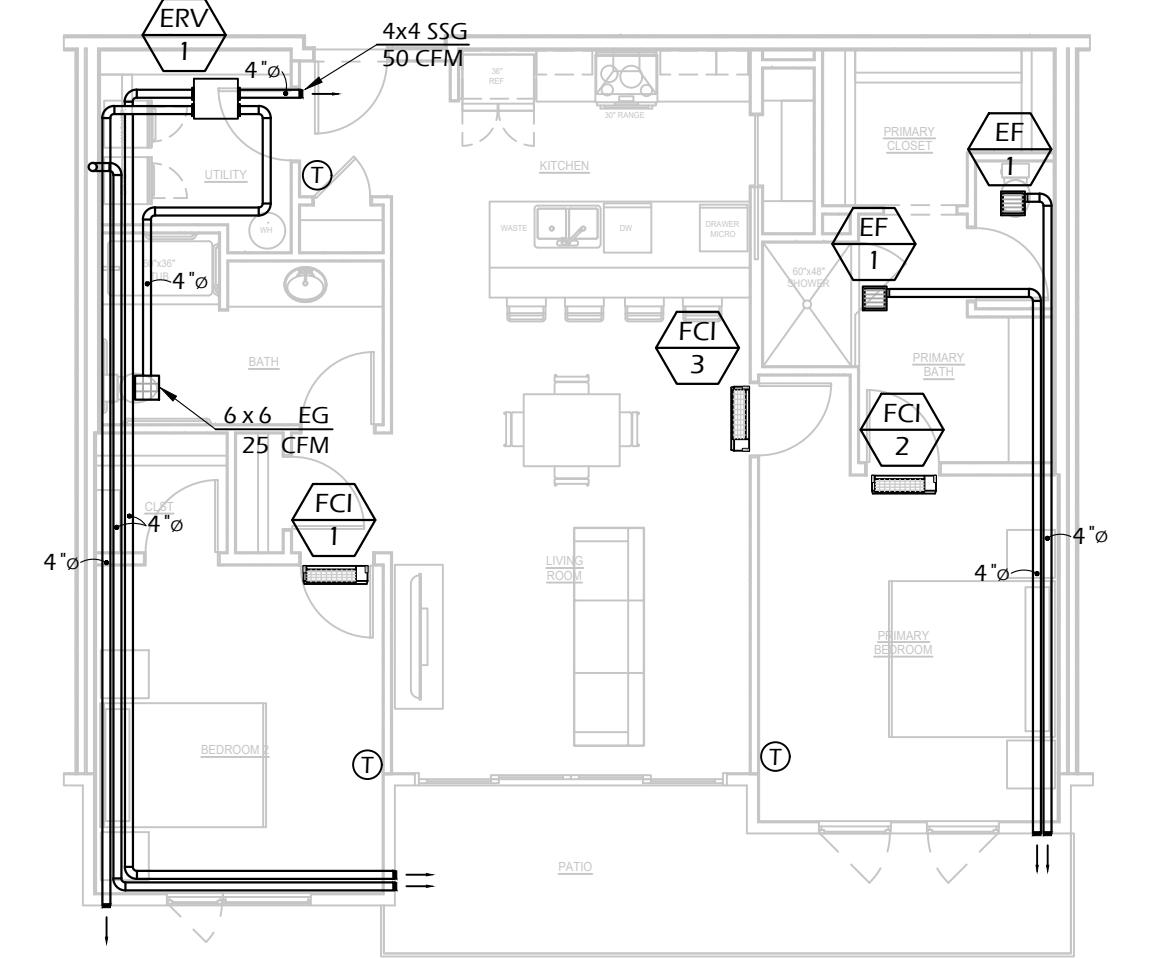
General Notes	
1. COORDINATE EXACT LOCATION OF DIFFUSERS & GRILLES WITH REFLECTED CEILING & LIGHTING LAYOUTS. 2. COORDINATE HVAC EQUIPMENT WITH ALL OTHER TRADES AS REQUIRED. 3. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DIMENSIONS. 4. SEAL ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES WITH U.L. APPROVED FIRE-RATED SYSTEM. 5. ROUND DUCT, FLEX DUCT OR RECTANGULAR DUCT MAY BE SUBSTITUTED FOR DUCT SIZES SHOWN ON PLANS PROVIDED EQUIVALENT AIR PRESSURE DROPS ARE MAINTAINED. 6. WHERE DUCTWORK PENETRATES FIRE-RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN DUCT AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR SCUTCHON COVERS AT BOTH SIDES OF PENETRATION. 7. COORDINATE ALL DUCTWORK PENETRATIONS THROUGH STRUCTURAL BEAMS WITH STRUCTURAL PLANS AND DETAILS PRIOR TO ANY PENETRATIONS BEING MADE. 8. KITCHEN HOODS TO BE RE-CIRCULATING WITH CHARCOAL FILTER. 9. MECHANICAL CONTRACTOR IS REQUIRED TO HAVE FIRE DAMPER INSTALLATION INSTRUCTIONS ON SITE FOR FRAMING INSPECTION OF DAMPER. 10. INTAKE AIR LOUVER LOCATION AND STYLE TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDER. PROVIDE WITH BACKDRAFT DAMPER AND BIRD SCREEN. 11. DO NOT CUT, DRILL, OR OTHERWISE MODIFY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER. FOLLOW JOIST MANUFACTURER'S REQUIREMENTS FOR PENETRATIONS THROUGH I-JOISTS. NO CONNECTOR LARGER THAN 1/4" IS ALLOWED INTO ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS MANUFACTURER. SEE STRUCTURAL DETAILS OR TRUSS MANUFACTURER'S DETAILS FOR SEISMIC BRACING ATTACHMENT. 12. DRYERS ARE TO BE PROVIDED BY BUILDER WITH A HIGH STATIC EXHAUST MOTOR BUILT IN. THIS WILL ELIMINATE THE NEED FOR AN EXTERNAL DRYER BOOSTER FAN. DRYERS TO BE CAPABLE OF HANDLING 100'-0" OF EQUIVALENT DUCT RUN.	ALLOWABLE ROUND HOLES IN STRUCTURAL WALLS: 3/4" HOLE CENTERED IN STUD OR PLATE WIDTH IS ALLOWED AT ANY LOCATION UP TO 2" HOLE ALLOWED THROUGH BEARING WALL TOP AND BOTTOM PLATES HOLES PROHIBITED: LARGER THAN 3/4" THROUGH BEARING OR SHEAR WALL STUDS LARGER THAN 3/4" THROUGH SHEAR WALL TOP AND BOTTOM PLATES NOTCHES IN STUDS OR PLATE EDGES SEE STRUCTURAL DRAWINGS FOR STRUCTURAL WALL DESIGNATIONS AND LOCATIONS

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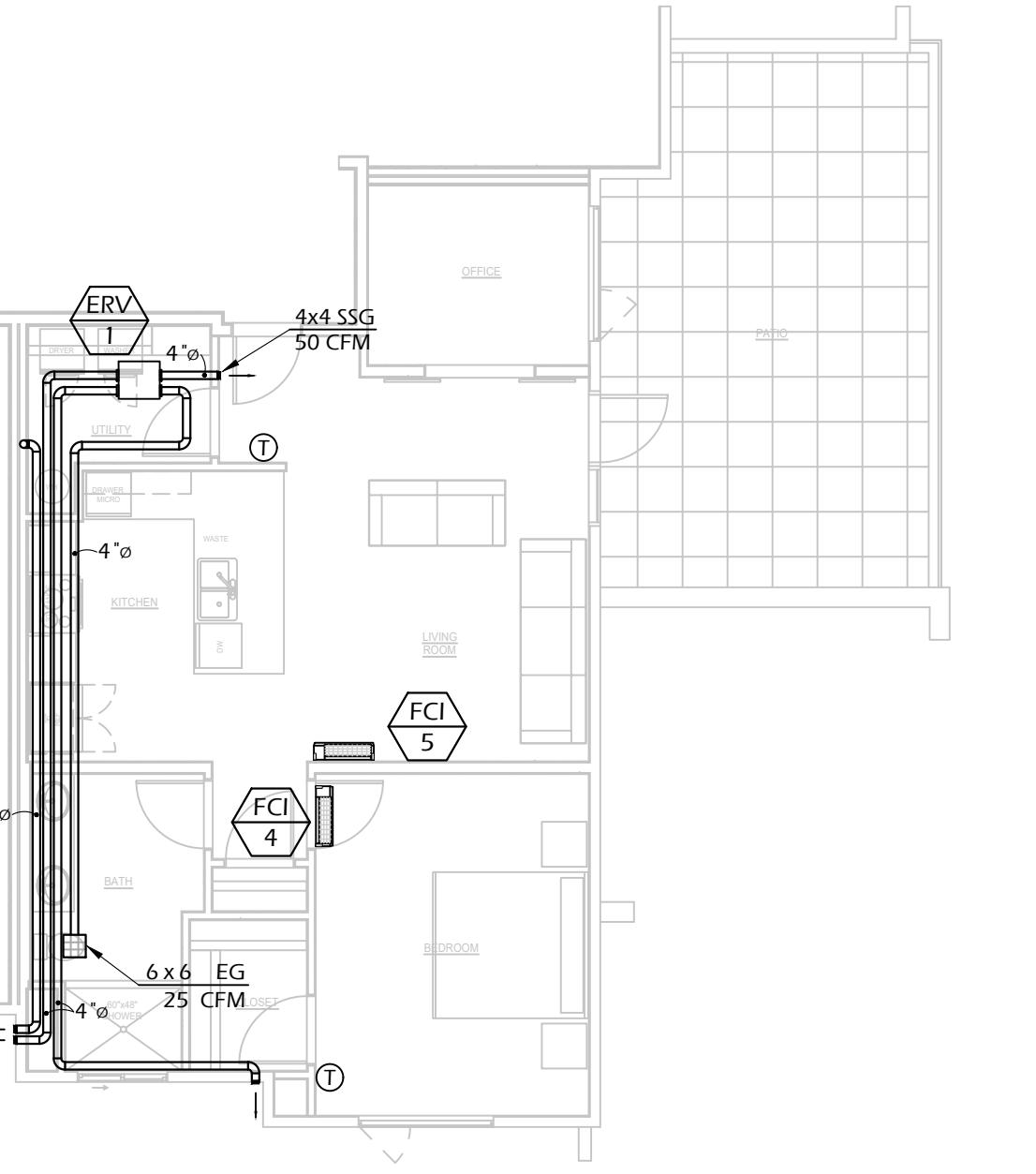
7761 W. RIVERSIDE DR.
SUITE #100
BOISE, ID 83714
PHONE: (208) 853-1205



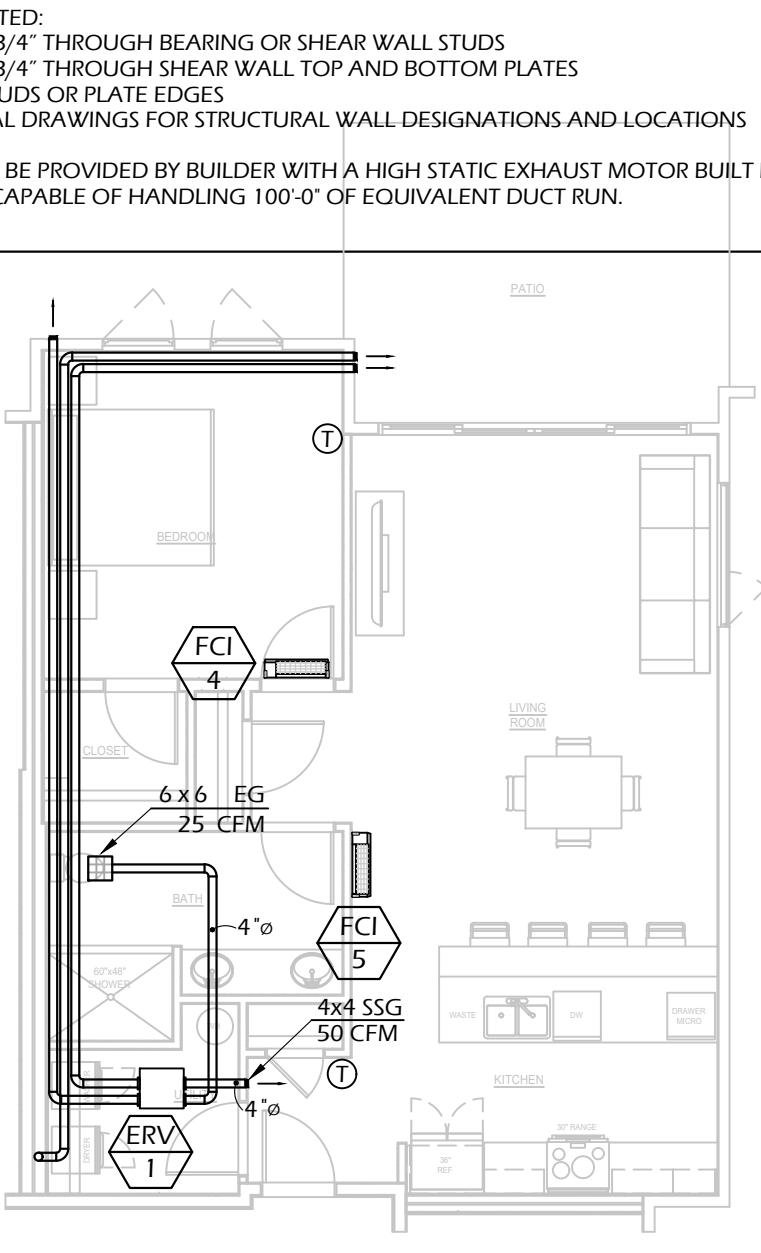
1 HVAC PLAN - 2 BED/2 BATH - TOP FLOOR - TYPE B
1/8" = 1'-0"



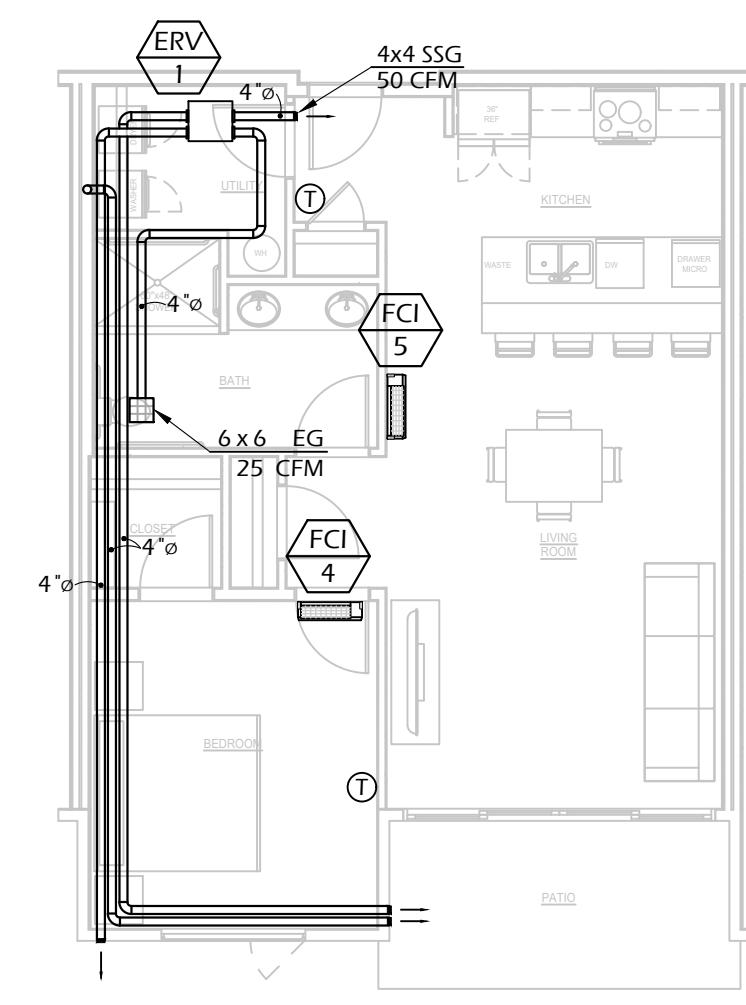
2 HVAC PLAN - 2 BED/2 BATH - TYPE B
1/8" = 1'-0"



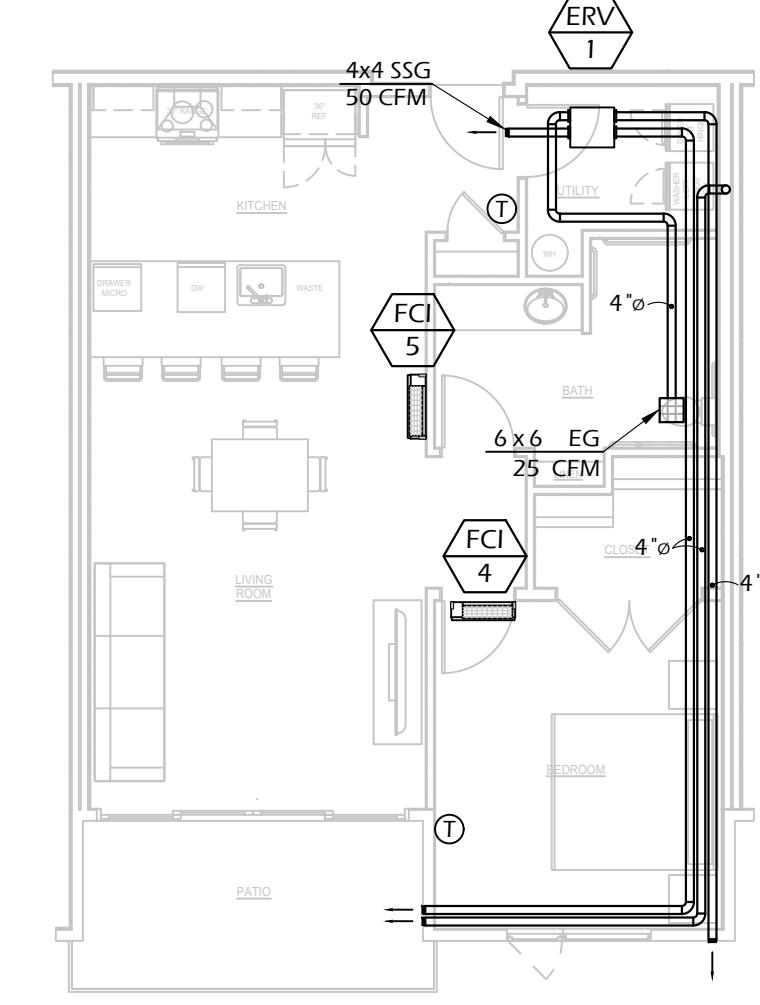
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1/8" = 1'-0"



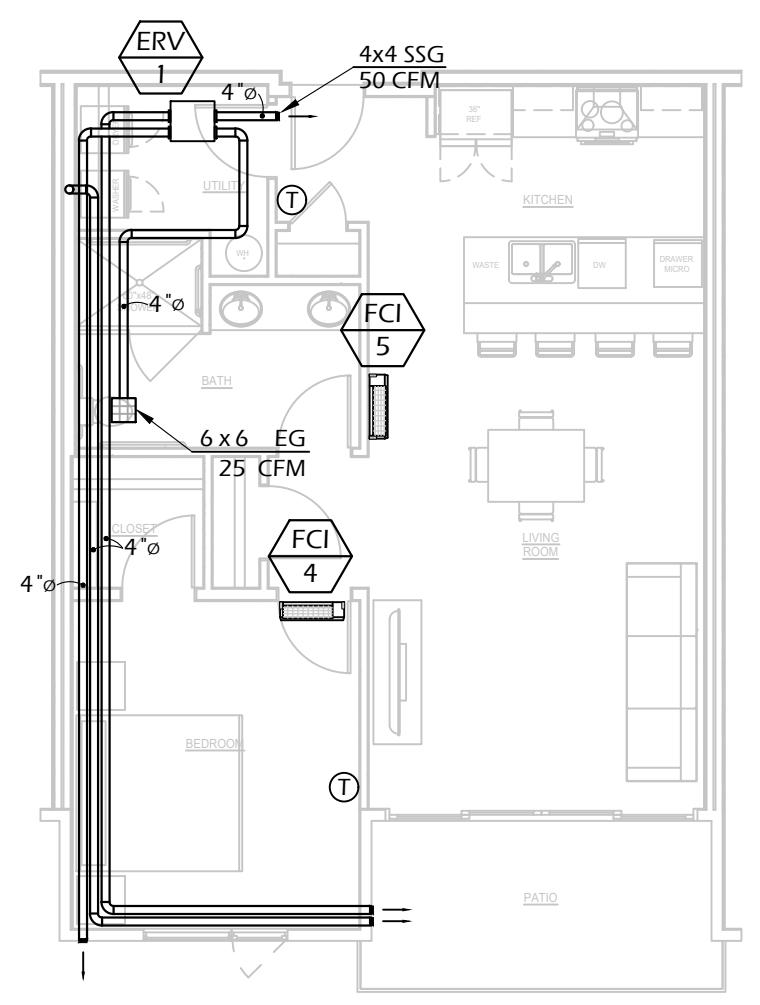
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1/8" = 1'-0"



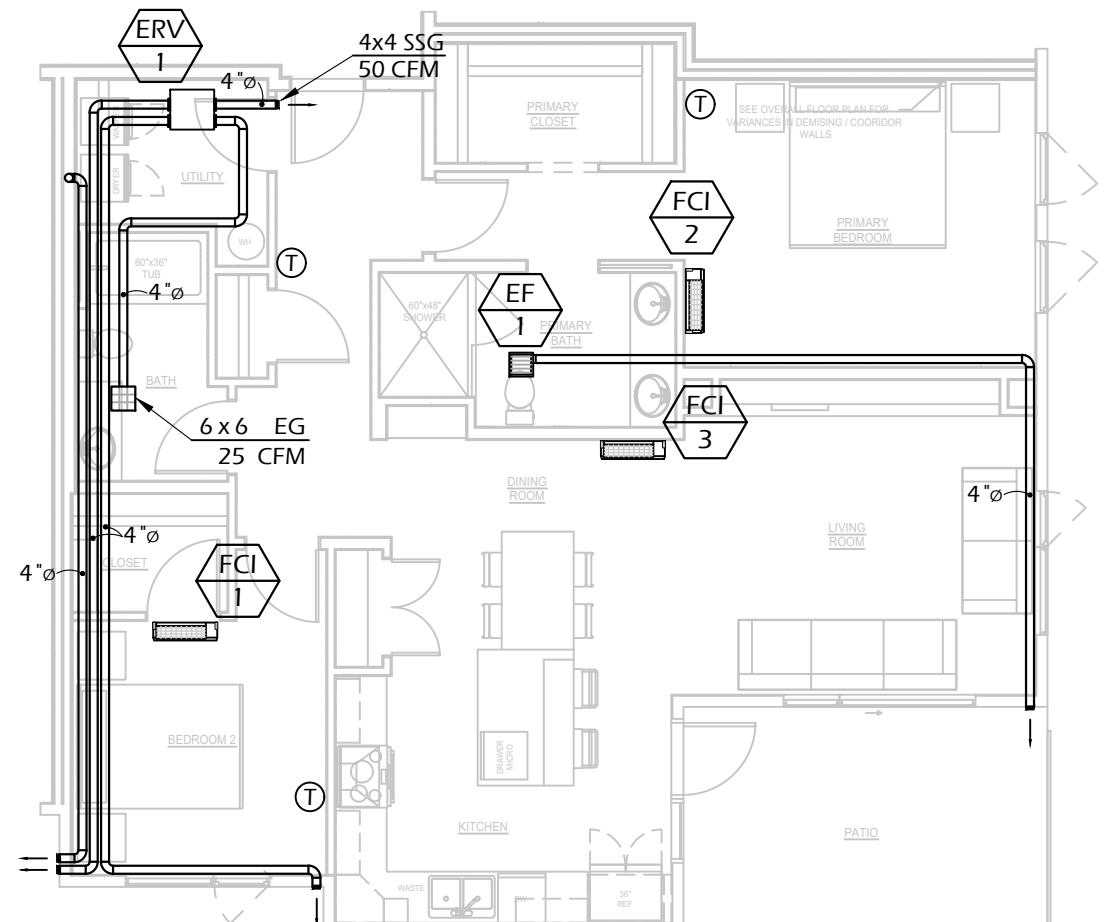
5 HVAC PLAN - 1 BED/1 BATH - TOP FLOOR - TYPE B
1/8" = 1'-0"



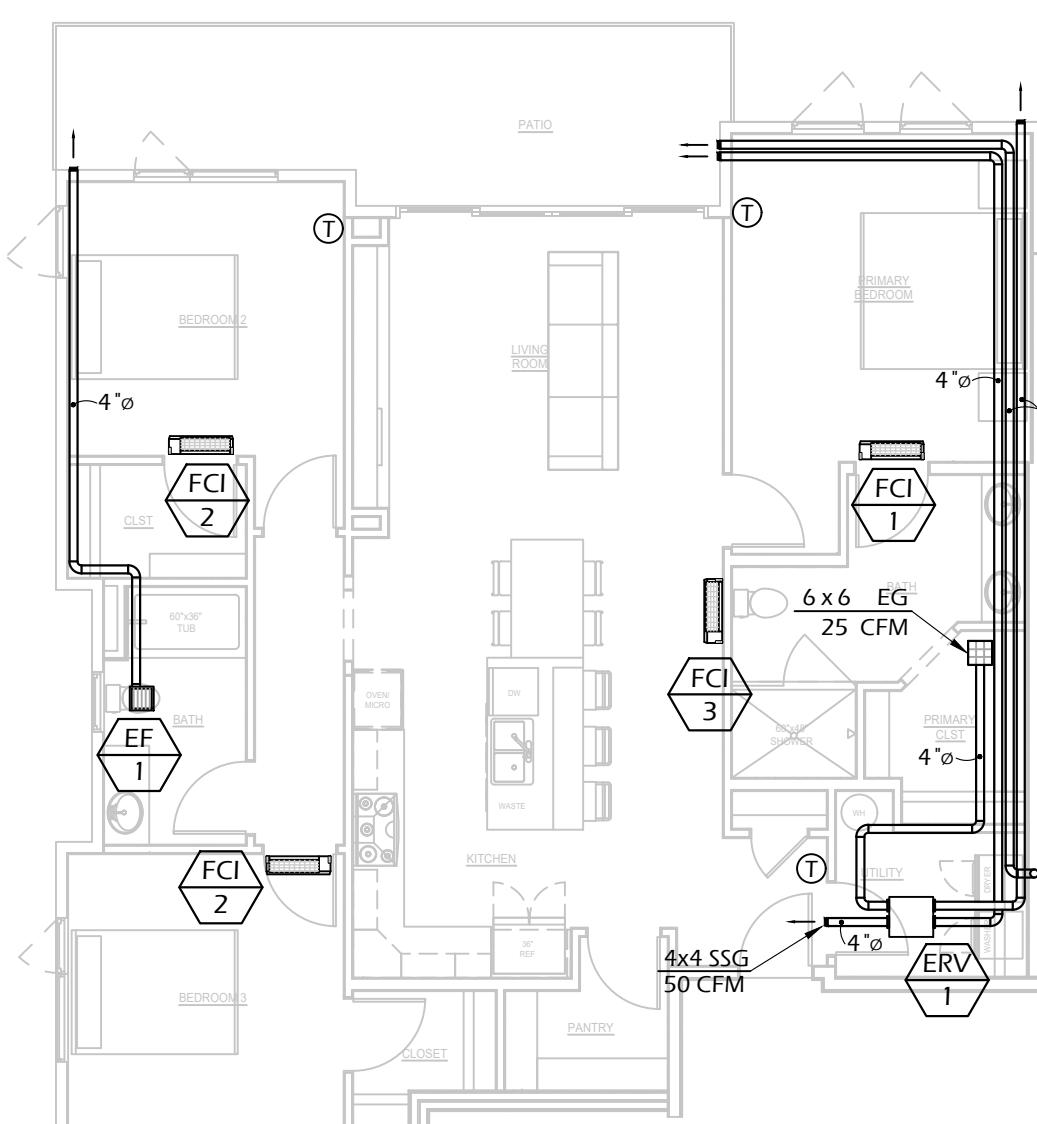
6 HVAC PLAN - 1 BED/1 BATH - TYPE A
1/8" = 1'-0"



7 HVAC PLAN - 1 BED/1 BATH - TYPE B
1/8" = 1'-0"



8 HVAC PLAN - 2 BED/2 BATH CORNER - TYPE B
1/8" = 1'-0"



9 HVAC PLAN - 3 BED/2 BATH - TYPE B
1/8" = 1'-0"

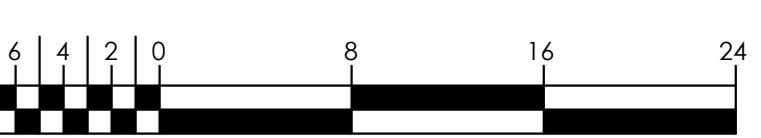
THE QUARTER AT HARRIS RANCH

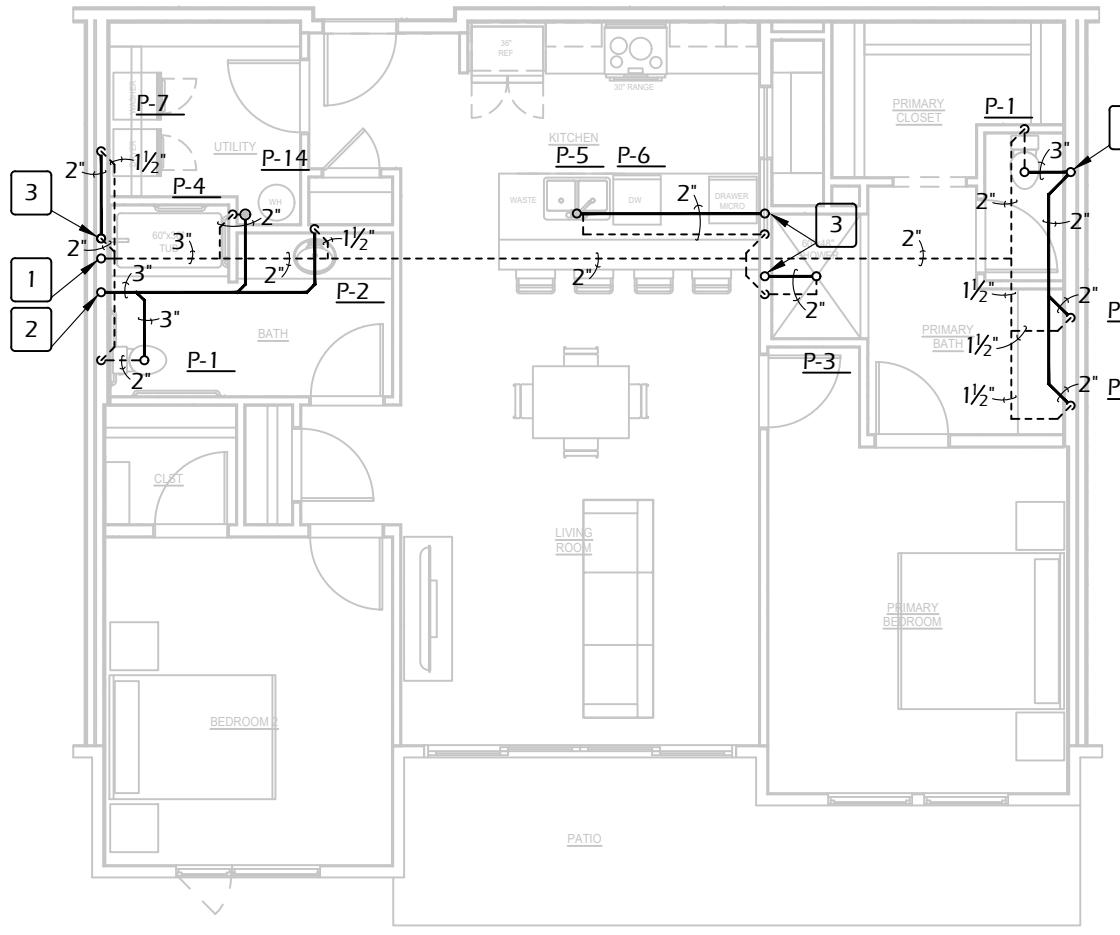
S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME
HVAC PLAN - UNITS

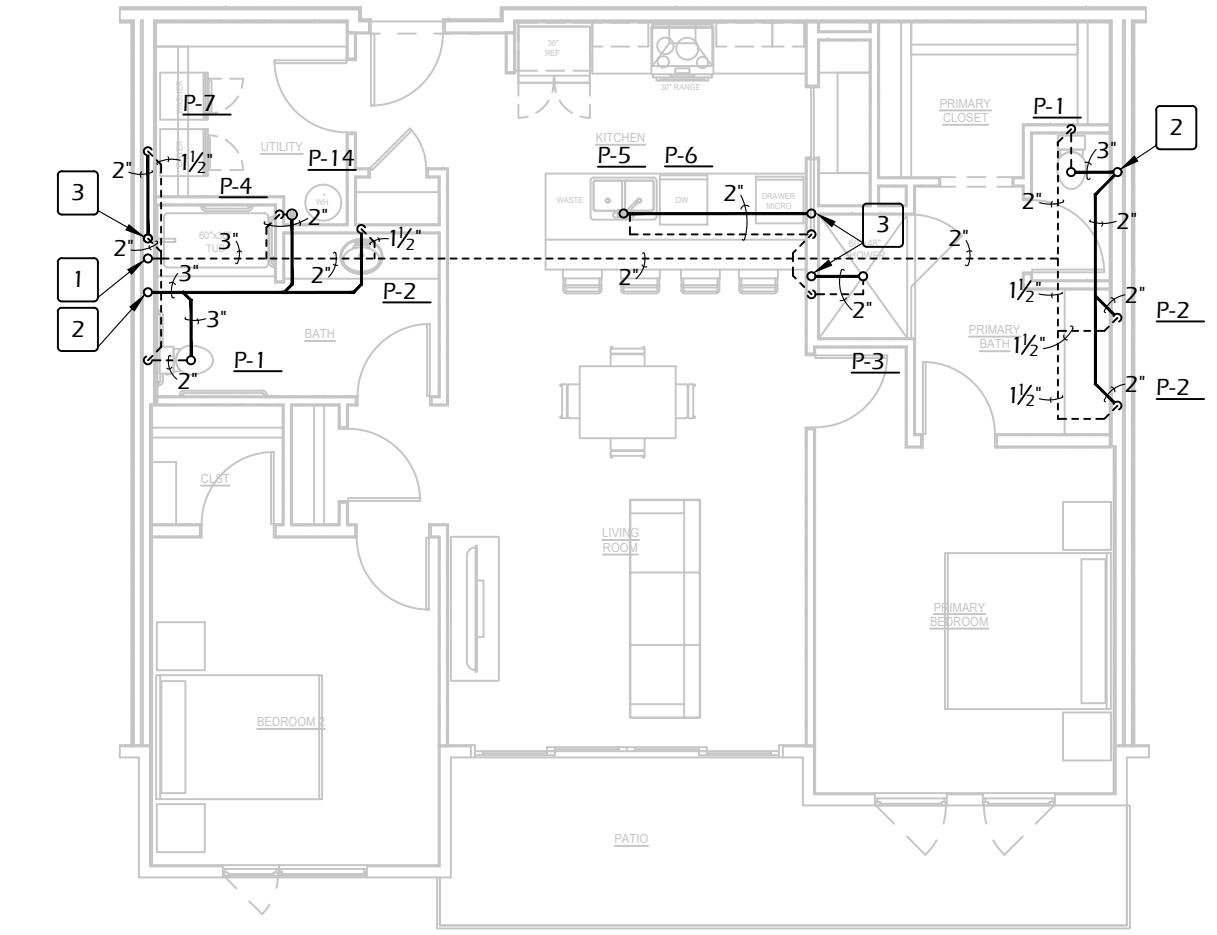
SHEET NUMBER

M5.1

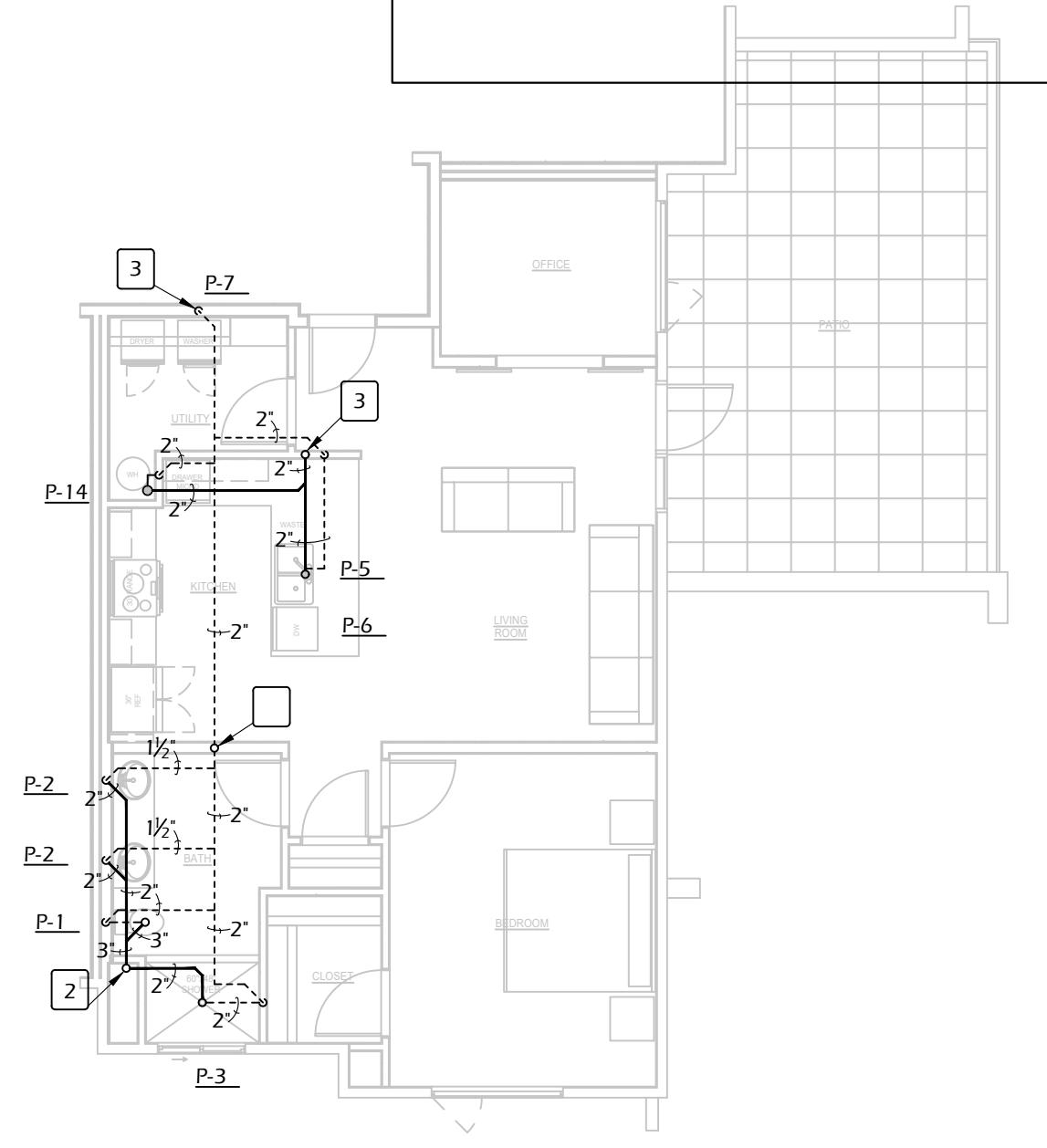




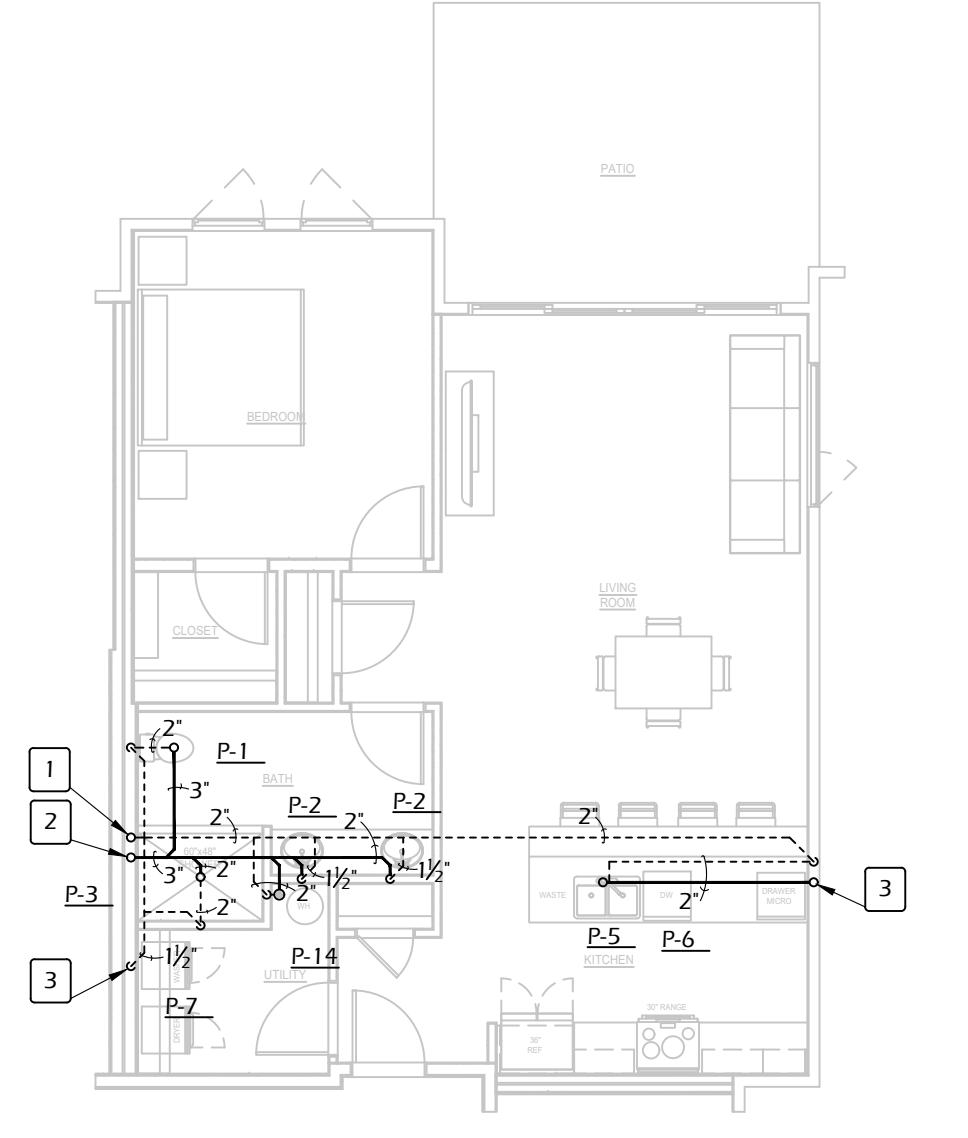
1 WASTE PLAN - 2 BED/2 BATH - TOP FLOOR - TYPE B
1/8" = 1'-0"



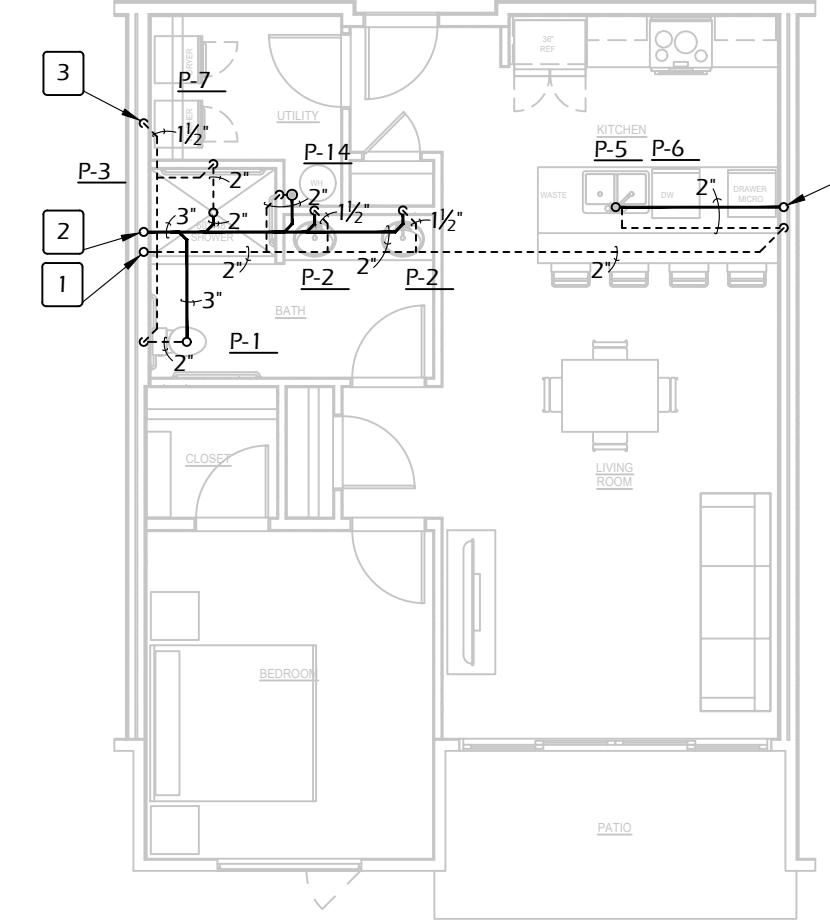
2 WASTE PLAN - 2 BED/2 BATH - TYPE B
1/8" = 1'-0"



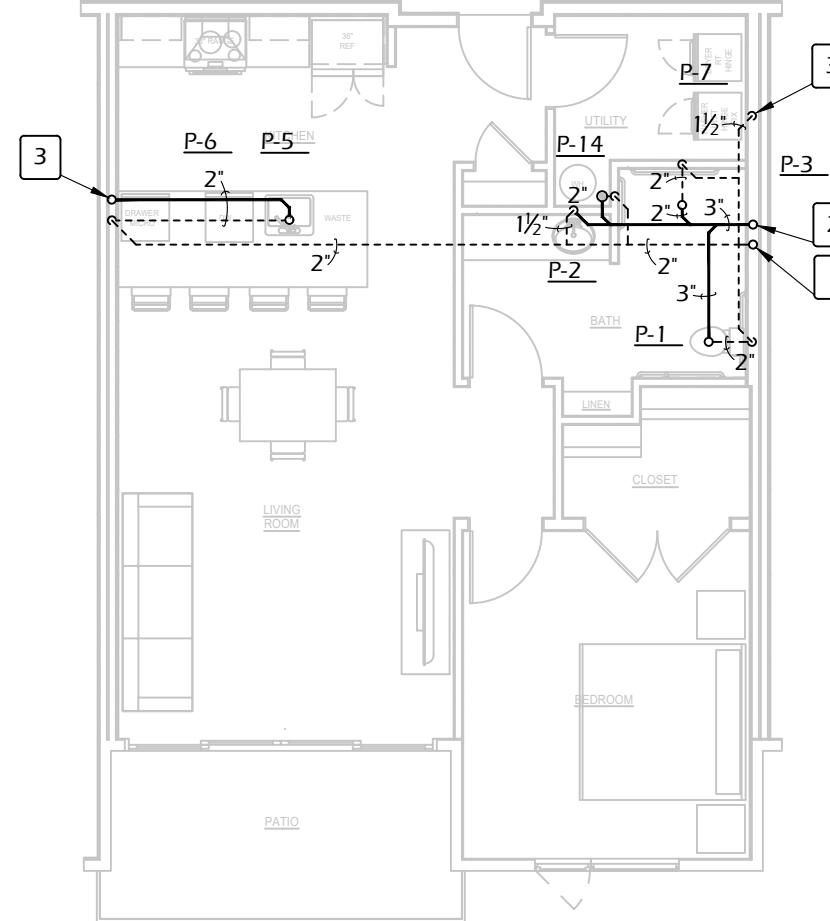
3 WASTE PLAN - 1 BED/1 BATH PLUS - TYPE B
1/8" = 1'-0"



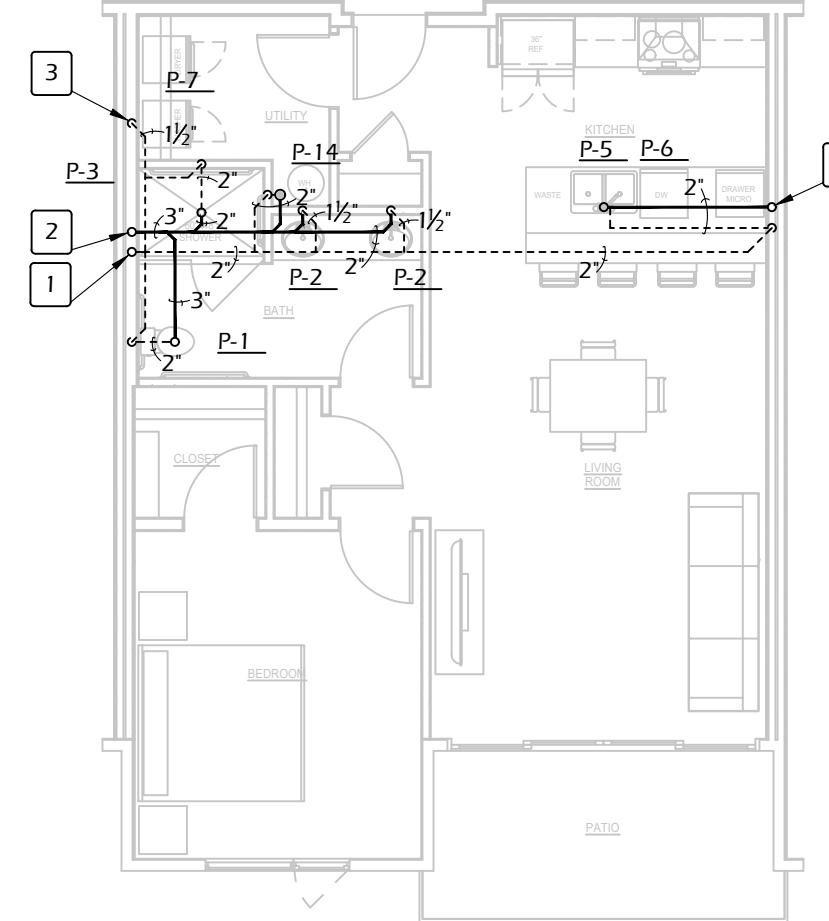
4 WASTE PLAN - 1 BED/1 BATH - TOP FLOOR ALT - TYPE B
1/8" = 1'-0"



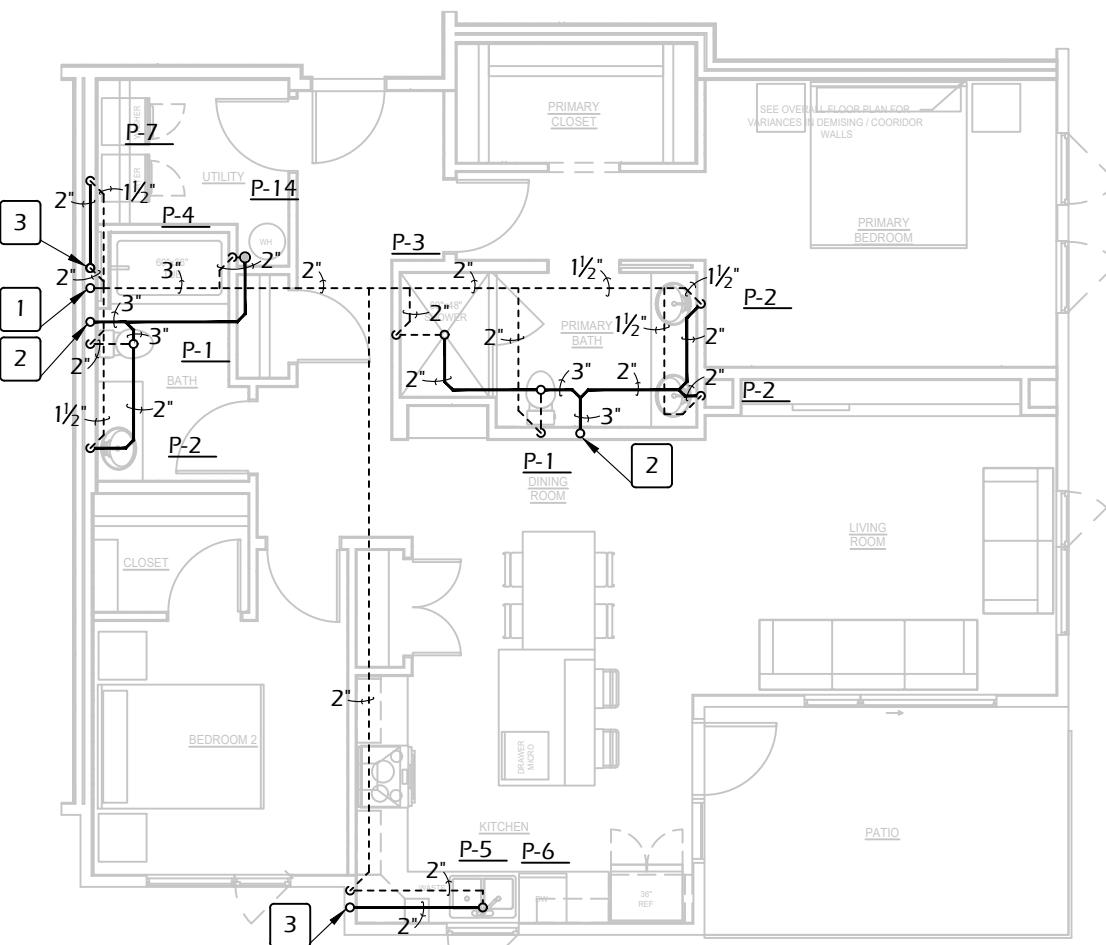
5 WASTE PLAN - 1 BED/1 BATH - TOP FLOOR - TYPE B
1/8" = 1'-0"



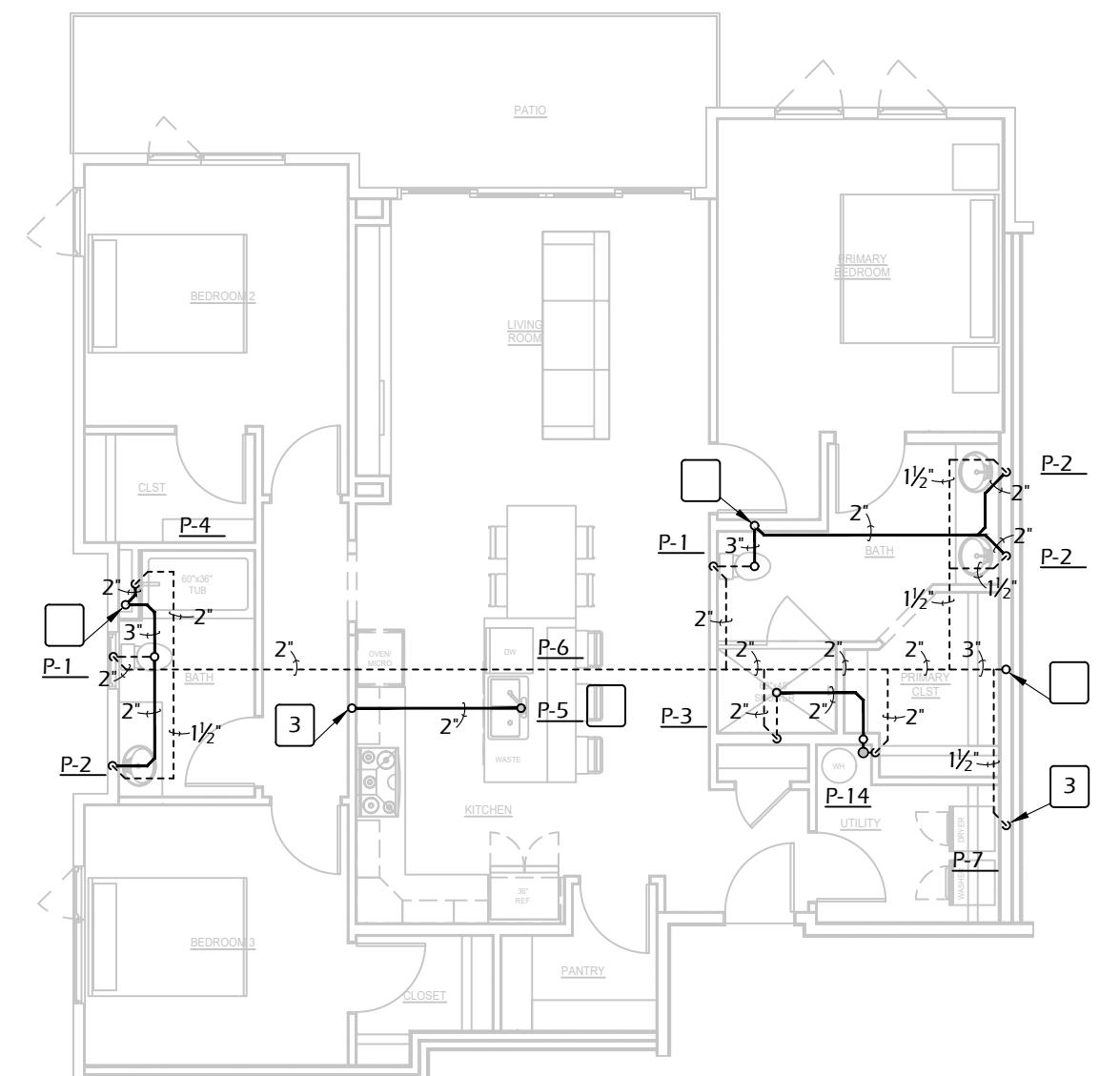
6 WASTE PLAN - 1 BED/1 BATH - TYPE A
1/8" = 1'-0"



7 WASTE PLAN - 1 BED/1 BATH - TYPE B
1/8" = 1'-0"



8 WASTE PLAN - 2 BED/2 BATH CORNER - TYPE B
1/8" = 1'-0"



9 WASTE PLAN - 3 BED/2 BATH - TYPE B
1/8" = 1'-0"

ACOUSTICAL REPORT

MECHANICAL AND PLUMBING
CONTRACTOR TO COORDINATE ALL
FINAL BID NUMBERS WITH
ACOUSTICAL REPORT AVAILABLE
FROM ARCHITECT.

Key Notes

1. 2" VENT PIPING STACK. REFERENCE OVERALL PLANS FOR NOTES ON SIZING AS STACK RISES.
2. 4" WASTE PIPING STACK.
3. 2" WASTE PIPING STACK.

General Notes

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL PRINTS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
3. WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 4" AND LARGER IS TO BE INSTALLED AT 1/8" SLOPE PER FOOT PENDING VERIFICATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
4. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WORK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION.
5. REFERENCE OVERALL WASTE AND VENT PLANS FOR WASTE AND VENT STACK SIZES AND WASTE LINES EXITING THE BUILDING.
6. SLOPE ALL CONDENSATE PIPING FROM COOLING COILS AT A MINIMUM OF 1/8" PER FOOT OF HORIZONTAL RUN.
7. 3/4" CONDENSATE LINE FROM FAN COIL UNIT TO BE RAN TO NEAREST SINK.

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7761 W. RIVERSIDE DR.
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PHONE: (208) 853-1205

THE QUARTER AT HARRIS RANCH

S. HOPES WELL AVE
BOISE, ID 83716

SHEET NAME

WASTE PLAN - UNITS

SHET NUMBER

M5.2

ACOUSTICAL REPORT

MECHANICAL AND PLUMBING
CONTRACTOR TO COORDINATE ALL
FINAL BID NUMBERS WITH
ACOUSTICAL REPORT AVAILABLE
FROM ARCHITECT.

Key Notes

1. FULL SIZE SHUT OFF VALVE TO BE PROVIDED FOR EACH INDIVIDUAL TENANT SPACE. FINAL LOCATION OF SHUT OFF VALVE IS TO BE BEHIND ACCESS PANEL IN EITHER CEILING SPACE OR WALL. PLUMBING CONTRACTOR TO FINALIZE INSTALLATION LOCATION ON SITE DURING CONSTRUCTION.
2. DROP 1/2" CW AND 1/2" HW LINES DOWN IN WALL AND RUN IN COUNTER SPACE TO SERVE FIXTURES.

General Notes

1. COORDINATE PLUMBING FIXTURES AND PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. REFERENCE ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS & MOUNTING HEIGHTS.
3. LOCATE WATER PIPING IN HEATED AREAS ONLY. DO NOT LOCATE PIPING IN EXTERIOR WALLS OR UNINSULATED ROOF SPACES.
4. COORDINATE LOCATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.
5. WHERE PIPING PENETRATES FIRE RATED FLOOR, CEILING, OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND ADJACENT WALK WITH FIRESTOPPING INSULATION AND CAULK AIRTIGHT. PROVIDE CLOSE FITTING METAL COATED SCUTCHEON COVERS AT BOTH SIDES OF PENETRATION. REFERENCE ARCHITECTURAL PLANS FOR RATED ENCLOSURES.

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ZEC
Zach Evans Construction

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SUITE #100
BOISE, ID 83714
PHONE: (208) 853-1205

THE QUARTER AT HARRIS RANCH

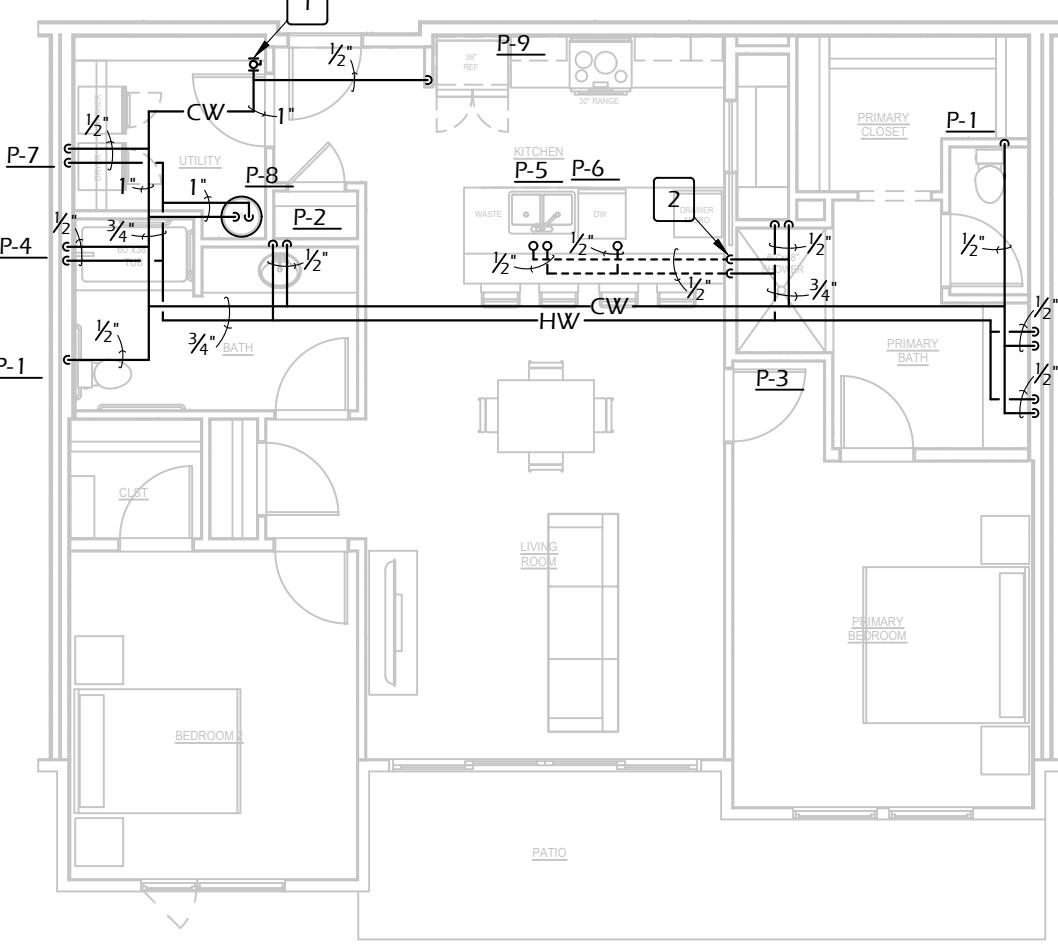
S. HOPES WELL AVE
BOISE, ID 83716

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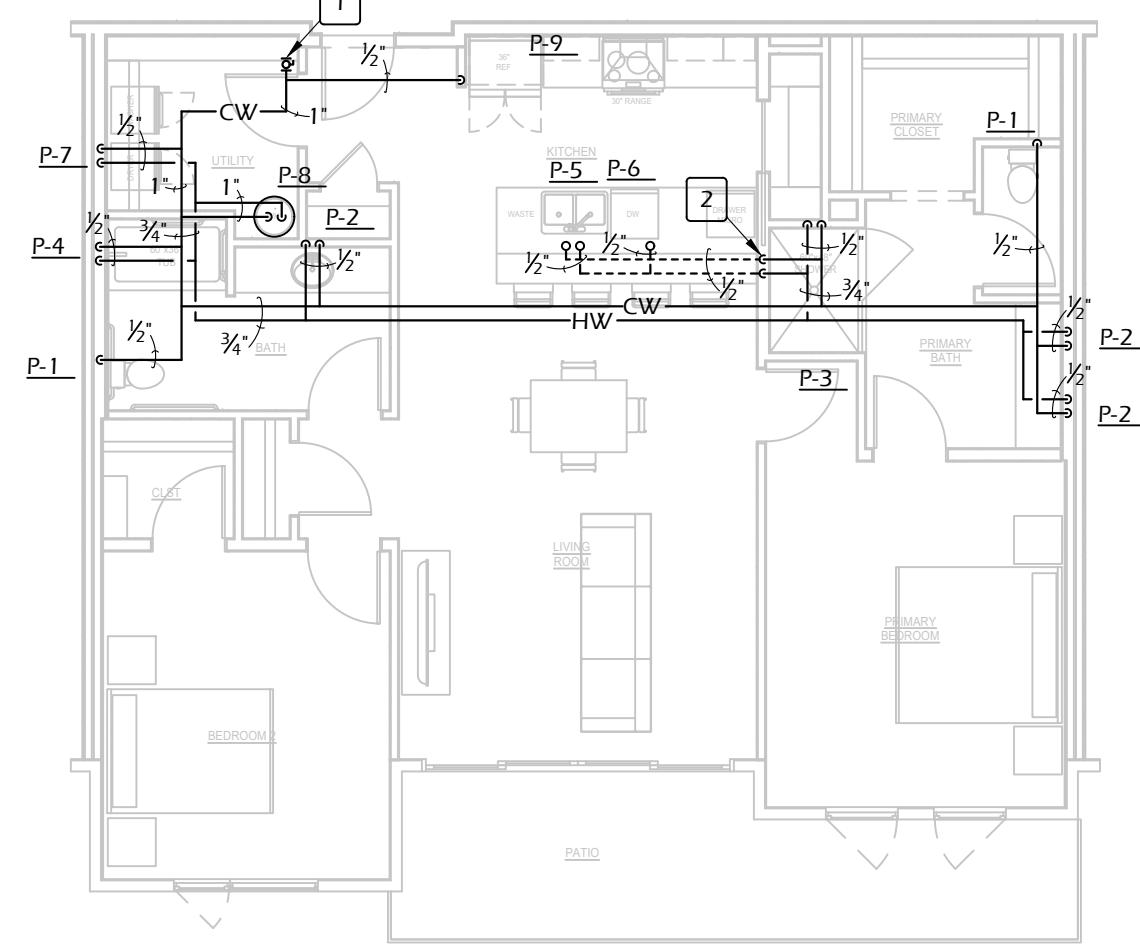
PLUMBING PLAN - UNITS

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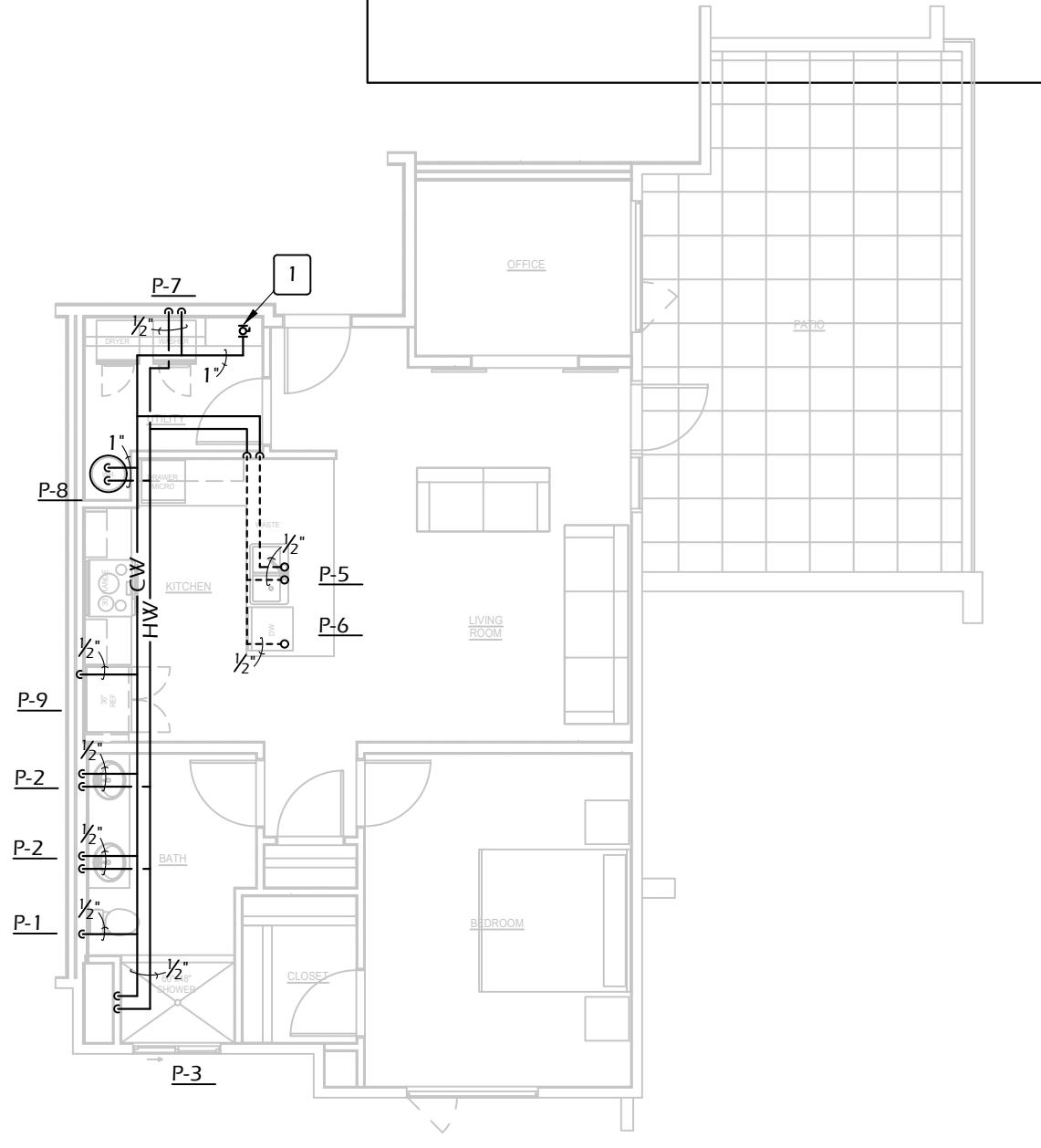
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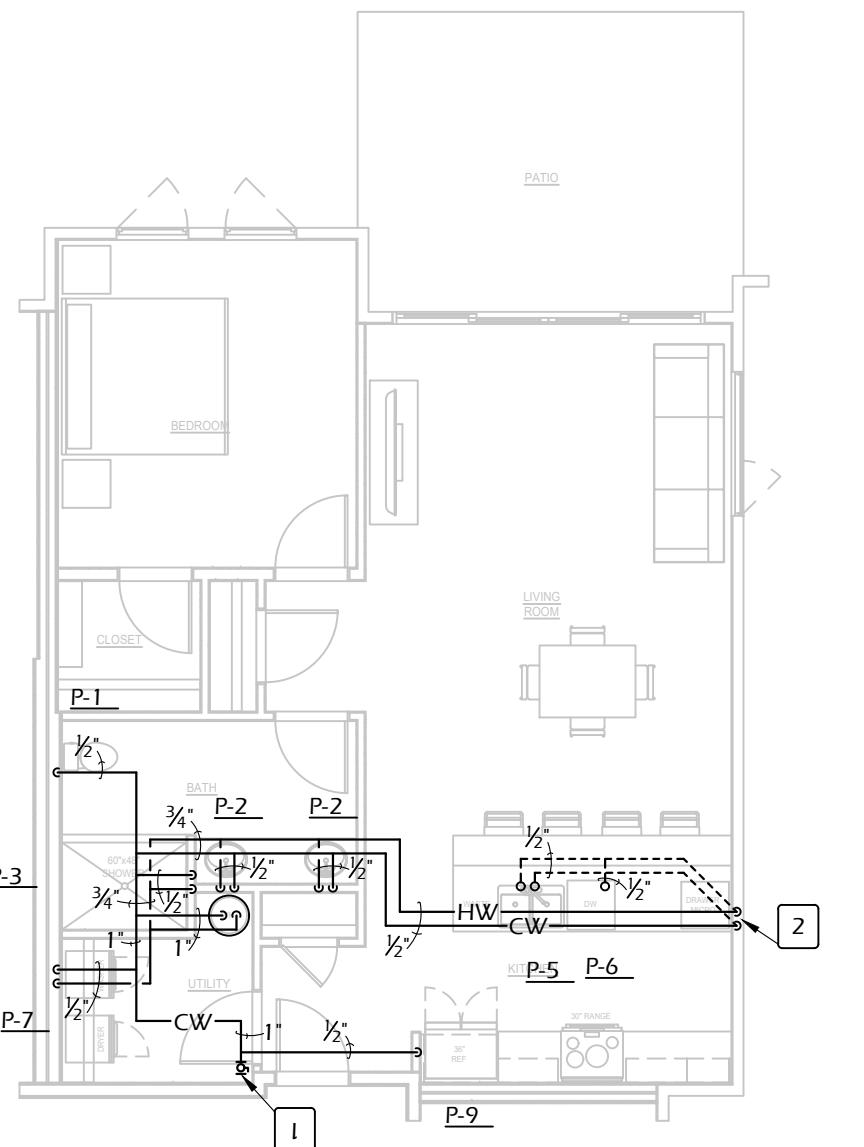
1 PLUMBING PLAN - 2 BED/2 BATH - TOP FLOOR - TYPE B
1/8" = 1'-0"



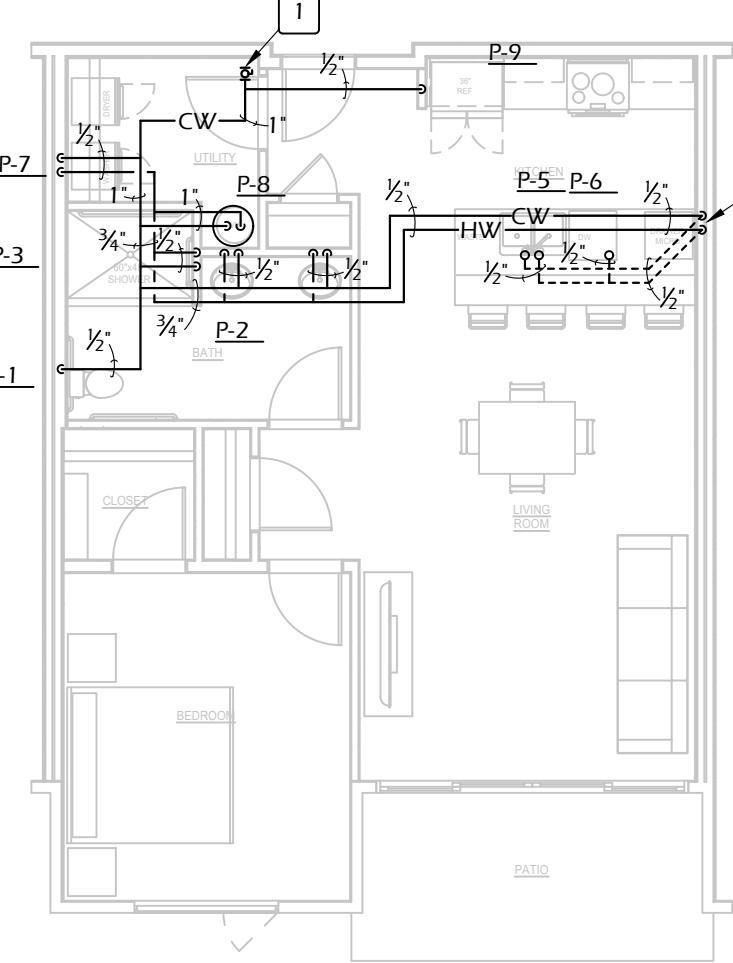
2 PLUMBING PLAN - 2 BED/2 BATH - TYPE B
1/8" = 1'-0"



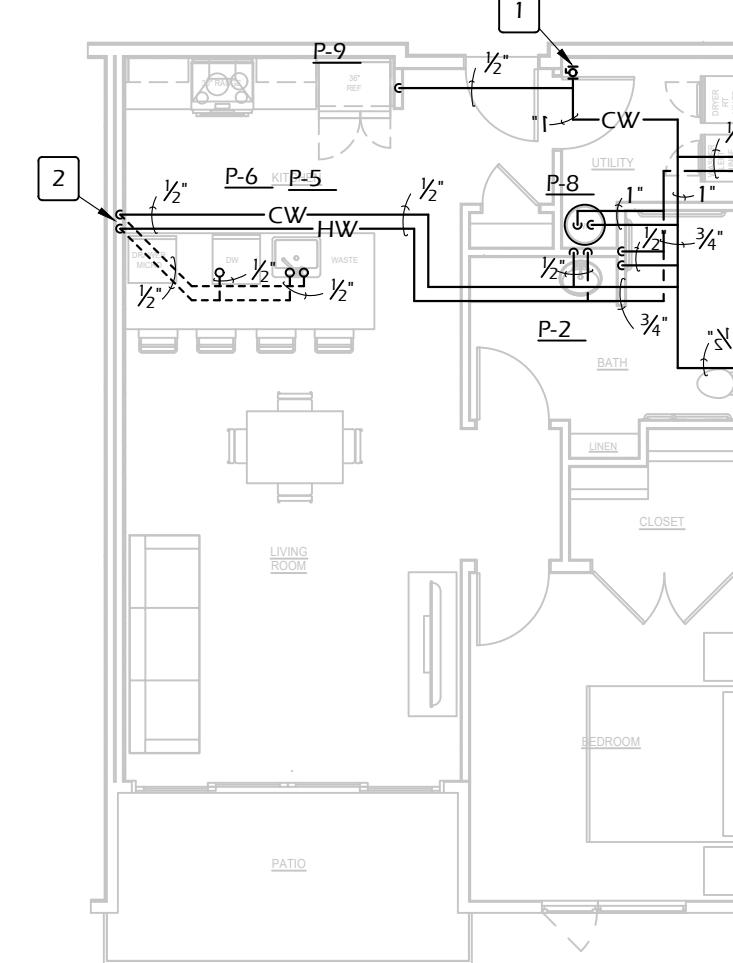
3 PLUMBING PLAN - 1 BED/1 BATH PLUS - TYPE B
1/8" = 1'-0"



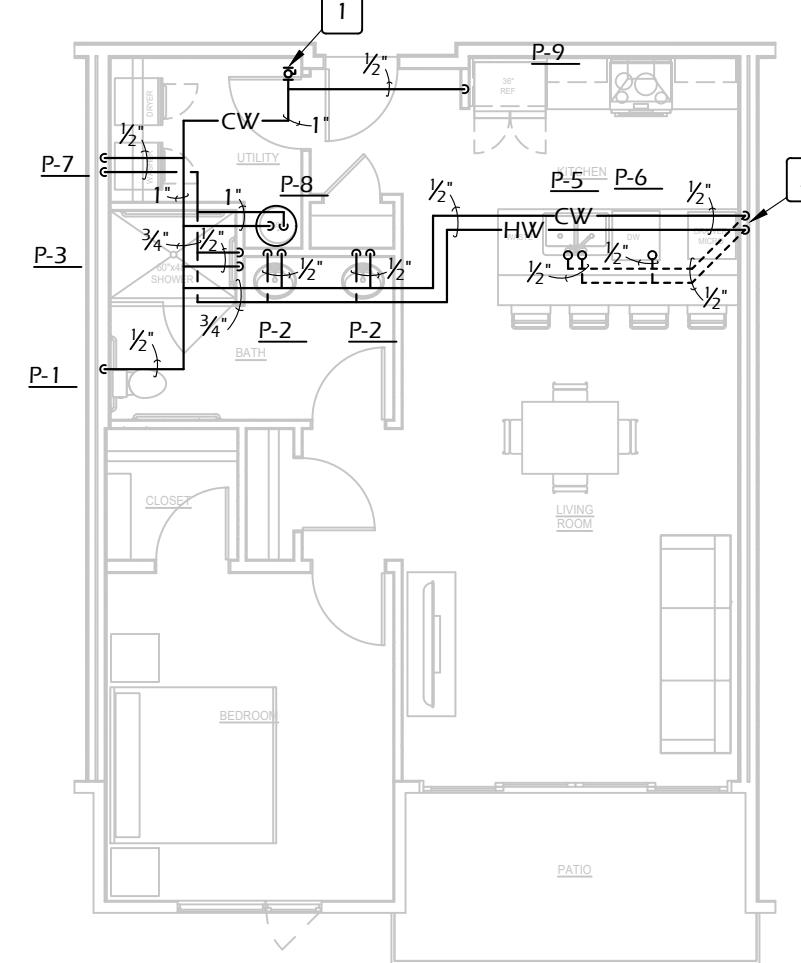
4 PLUMBING PLAN - 1 BED/1 BATH - TOP FLOOR ALT - TYPE B
1/8" = 1'-0"



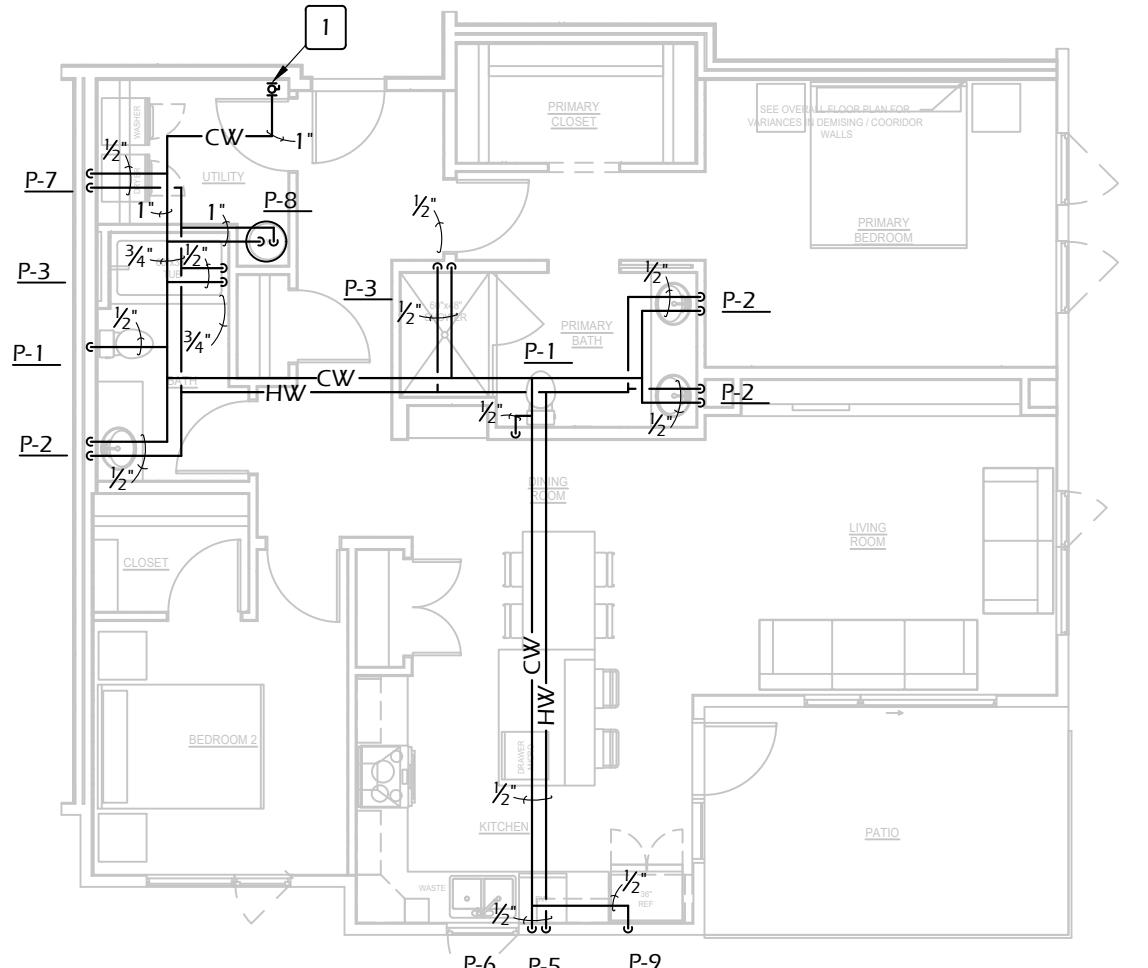
5 PLUMBING PLAN - 1 BED/1 BATH - TOP FLOOR - TYPE B
1/8" = 1'-0"



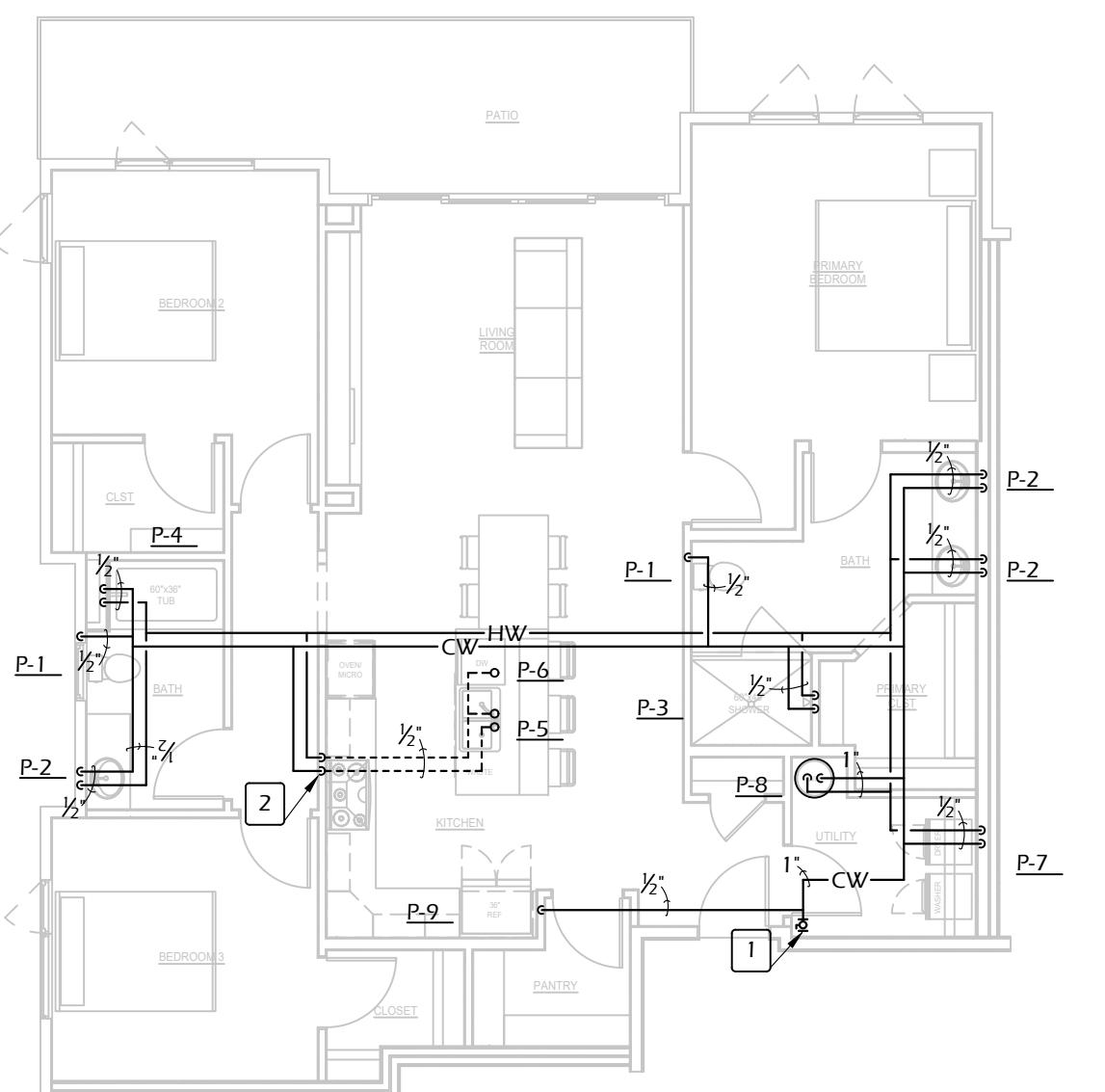
6 PLUMBING PLAN - 1 BED/1 BATH - TYPE A
1/8" = 1'-0"



7 PLUMBING PLAN - 1 BED/1 BATH - TYPE B
1/8" = 1'-0"



8 PLUMBING PLAN - 2 BED/2 BATH CORNER - TYPE B
1/8" = 1'-0"



9 PLUMBING PLAN - 3 BED/2 BATH - TYPE B
1/8" = 1'-0"