

NOTE: This is a standard symbol list and not all items listed may be used.


Abbreviations

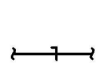
AFF ABOVE FINISHED FLOOR
AD ACCESS DOOR
AC AIR CONDITION(ED)
AHU AIR HANDLING UNIT
BDD BACKDRAFT DAMPER
BFF BELOW FINISHED FLOOR
BHP BRAKE HORSEPOWER
CL CENTERLINE
COP COEFFICIENT OF PERFORMANCE
CD CONDENSATE DRAIN
CU CONDENSING UNIT
CONT. CONTINUATION
CFM CUBIC FEET PER MINUTE
DB DECIBEL
DP DEW POINT, DIFFERENTIAL PRESSURE
DIA DIAMETER
DX DIRECT EXPANSION
D DROP
DB DRY BULB
EFF EFFICIENT
ELECT ELECTRICAL
EL ELEVATION
EER ENERGY EFFICIENCY RATING
EAT ENTERING AIR TEMPERATURE
EXH EXHAUST
EF EXHAUST FAN
(E) EXISTING
F FAHRENHEIT
FC FAN COIL
FT FEET
FPM FEET PER MINUTE
FPI FINS PER INCH
FD FIRE DAMPER
FLA FULL LOAD AMPS
GAL GALLONS
GPM GALLONS PER MINUTE
HX HEAT EXCHANGER
HTG HEATING
HP HORSEPOWER
IN INCHES
KW KILOWATT
LH LATENT HEAT
LAT LEAVING AIR TEMPERATURE
LWT LEAVING WATER TEMPERATURE
MAX MAXIMUM
MIN MINIMUM
MA MIXED AIR
NC NOISE CRITERIA
N/A NOT APPLICABLE
NIC NOT IN CONTRACT
NTS NOT TO SCALE
NO. NUMBER
OC ON CENTER
OBD OPPOSED BLADE DAMPER
OA OUTSIDE AIR
OSA OUTSIDE AIR
PH PHASE
LBS. POUNDS
PSI POUNDS PER SQUARE INCH
PD PRESSURE DROP
QTY QUANTITY
REF REFRIGERANT
RL REFRIGERANT LIQUID
RS REFRIGERANT SUCTION
RH RELATIVE HUMIDITY
RET RETURN
RA RETURN AIR
RPM REVOLUTIONS PER MINUTE
R RISE
SEER SEASONAL ENERGY EFFICIENCY RATING
SH SENSIBLE HEAT
SF SQUARE FEET
SP STATIC PRESSURE
SA SUPPLY AIR
T, TEMP TEMPERATURE
MBH THOUSAND BTU'S PER HOUR
TH TOTAL HEAT
TP TOTAL PRESSURE
VEL VELOCITY
V VOLT
VD VOLUME DAMPER (HAND OPERATOR)
WC WATER COLUMN
W WATT
WB WET BULB
W WITH
WO WITHOUT

Control Symbols

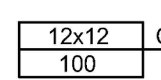
 AC-1 ROOM THERMOSTAT


Dampers

 FIRE DAMPER

 VOLUME DAMPER

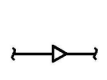
Diffusers and Grilles

 DIFFUSER OR GRILLE IDENTIFICATION

 EXHAUST AIR

 SUPPLY AIR

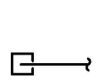
Ductwork Fittings

 CONCENTRIC SQUARE TO ROUND

 CONCENTRIC TRANSITION, RECTANGULAR OR ROUND

 ECCENTRIC TRANSITION, RECTANGULAR OR ROUND

 FLEXIBLE CONNECTION

 RECTANGULAR DUCT DROP

 RECTANGULAR DUCT RISER

 RECTANGULAR MAIN WITH RECTANGULAR BRANCH

 RECTANGULAR MAIN WITH ROUND BRANCH

 RECTANGULAR OFFSET LESS THAN 15% $\%d$

 RECTANGULAR OFFSET MORE THAN 15% $\%d$

 ROUND DUCT DROP


 ROUND DUCT RISER

 ROUND DUCT WITH ROUND BRANCH


 MITERED ELBOW WITH TURNING VANES

 RADIUSED ELBOW

General

 DETAIL NUMBER AND SHEET LOCATION


 EQUIPMENT IDENTIFICATION

 KEYED NOTE

 LIMIT OF DEMOLITION

 POINT OF CONNECTION

 SECTION NUMBER AND SHEET LOCATION


 EXISTING WORK

 NEW WORK

 RECTANGULAR DUCT SIZING

 ROUND DUCT SIZING

Piping Fittings, Appurtenances and Equipment

 CONTINUATION

 FLEXIBLE CONNECTION

 FLOW DIRECTION

 PIPE DROP

 PIPE RISE

Piping Systems

 REFRIGERANT LIQUID

 REFRIGERANT SUCTION

GENERAL MECHANICAL NOTES

- A. COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.
- B. PROVIDE CEILING ACCESS PANELS FOR ALL DUCT DAMPERS OR CONCEALED VOLUME DAMPER REGULATORS LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. MAINTAIN FIRE RATINGS WHERE REQUIRED.
- C. INSTALL THERMOSTATS AT 4'-0" A.F.F. PER ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON DRAWINGS. 4'-0" DIMENSION TO BE TO THE TOP OF THE THERMOSTAT.
- D. COORDINATE EXACT LOCATION OF ALL CEILING GRILLES AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL INTERIOR ELEVATIONS, LIGHTING, AND STRUCTURAL CONDITIONS. ARCHITECTURAL PLANS TO PROVIDE FINAL GRILLE AND DIFFUSER LOCATIONS IN THE EVENT OF A CONFLICT.
- E. ALL WORK PERFORMED AND MATERIAL SUPPLIED SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ALL OTHER APPLICABLE LAWS AND STATE REGULATIONS INCLUDING APPLICABLE SEISMIC ZONE REQUIREMENTS.
- F. MAINTAIN ALL OUTSIDE AIR INTAKE OPENINGS MINIMUM 10'-0" FROM ALL MECHANICAL VENTS, PLUMBING VENTS AND EXHAUST FANS.
- G. CONTRACTOR TO TEMPORARILY INSTALL 2" THICK 60% EFFICIENT FILTERS AT ALL RETURN AIR GRILLE LOCATIONS. FILTERS TO BE REMOVED AT CONCLUSION OF CONSTRUCTION.
- H. PAINT ALL DIFFUSERS, REGISTERS AND GRILLES PER ARCHITECTURAL INSTRUCTIONS. ANY GRILLES INSTALLED IN GYPSUM BOARD WALLS AND CEILINGS ARE TO BE FURNISHED WITH FACTORY MILL OR PRIMER FINISH, READY FOR PAINTING IN THE FIELD.
- I. DIFFUSER/GRILLE RUNOUTS ARE SAME SIZE AS DIFFUSER/GRILLE NECK SIZE UNLESS OTHERWISE NOTED ON PLANS.
- J. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN THE LISTING AND MANUFACTURER'S INSTRUCTIONS.
- K. EQUIPMENT TO BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER EQUIPMENT, VENTING SYSTEMS, PIPING, OR DUCTS CONNECTED TO THE EQUIPMENT BEING SERVICED.
- L. MAINTAIN MINIMUM DISTANCE OF 3'-0" BETWEEN ALL EXHAUST OUTLETS AND DOORS/OPERABLE WINDOWS.
- M. PROVIDE ONE BALANCING DAMPER FOR EACH AIR INLET/ OUTLET SHOWN ON PLAN. WHERE DAMPER IS LOCATED ABOVE A HARD LID CEILING, PROVIDE REMOTE CABLE CONTROL FOR DAMPER.
- N. FOR ALL DUCT CONNECTIONS TO MECHANICAL EQUIPMENT, PROVIDE TRANSITION FROM DUCT SIZE SHOWN TO EQUIPMENT CONNECTION SIZE.
- O. ADJUST THROW OF ALL AIR DEVICES TO NOT INTERFERE WITH LIGHTING.
- P. INSTALL ALL EQUIPMENT SUCH THAT MANUFACTURER RECOMMENDED CLEARANCES ARE MAINTAINED.
- Q. DETAILS APPLY WHETHER REFERENCED ON THE DRAWINGS OR NOT.
- R. INSTALL 1.5X RADIUS ELBOWS WHERE SPACE ALLOWS. OTHERWISE INSTALL MITERED ELBOWS WITH TURNING VANES CONSISTENT WITH SPECIFICATIONS.
- S. DUCTS, PIPING, AND EQUIPMENT TO BE INSTALLED AS HIGH AS POSSIBLE IN SPACES UNLESS OTHERWISE NOTED.
- T. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL SLAB AND WALL PENETRATIONS.
- U. SUPPORT EQUIPMENT, DUCTS, PIPING AS SPECIFIED AND AS SHOWN IN DETAILS. ENSURE EQUIPMENT WILL OPERATE WITHOUT OBJECTIONABLE VIBRATION AND NOISE.
- V. WHERE THE INSIDE OF DUCTS ARE VISIBLE FROM GRILLES OR DIFFUSERS, PAINT VISIBLE PORTION OF INSIDE OF DUCT FLAT BLACK.
- W. PENETRATIONS THRU RATED ASSEMBLIES TO BE APPROPRIATELY SEALED.



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SHEET TITLE

SYMBOL LIST AND
GENERAL NOTES -
MECHANICAL

REVISIONS

DRAWN BY
PHH

CHECKED BY
JMM

JOB NO.
2022-1372

DATE
03/31/2023

SHEET NUMBER

M0.1

SHEET INDEX

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M4.0	ENLARGED UNIT PLANS - MECHANICAL
M4.1	ENLARGED ACCESSIBLE UNIT PLANS - MECHANICAL
M7.1	DETAILS - MECHANICAL



PACKAGED ROOFTOP AIR HANDLER UNIT SCHEDULE

PACKAGED ROOFTOP AIR HANDLER UNIT SCHEDULE																																				
BASIS OF DESIGN				SUPPLY FAN								DX COOLING COIL										GAS FURNACE				FILTER		ELECTRICAL				SMOKE	APPROX.	MAX		
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	ESP (IN H2O)	FAN TYPE	FAN BHP	FAN MHP	FAN RPM	VFD (Y/N)	TOTAL CAP (MBH)	SENS CAP (MBH)	EDB (°F)	EWB (°F)	COIL LAT		HGRH (MBH)	DOAS LAT		FACE VELOCITY (FPM)	APD (IN H2O)	INPUT (MBH)	OUTPUT (MBH)	TURN DOWN	EAT (°F)	LAT (°F)	EFF MERV	VOLTS	PH	MCA	MOCP	DETECT. (Y/N)	DIMS (LxWxH)	WT (LBS)	NOTES
DOAS-01	SOUTH INT APTS	GREENHECK	RV-10-SI-G-E1	1800	1800	1	PLENUM	0.7	3/4	1950	Y	63.7	41.7	92	58	55	54.5	39.7	75	62	500	0.2	154	123	16:1	0	70	8	460	3	13.8	20	N	88x44x58	1200	1, 2, 3, 4, 5, 6
DOAS-02	NORTH INT APTS	GREENHECK	RV-10-SI-G-E1	1650	1650	1	PLENUM	0.64	3/4	1834	Y	58.4	38.2	92	58	55	54.5	36.4	75	62	500	0.2	154	123	16:1	0	70	8	460	3	13.8	20	N	88x44x58	1200	1, 2, 3, 4, 5, 6
RTU-01	ENTRY/ADMIN	TRANE	YSJ072	2600	420	1	PLENUM	0.86	3	1086	Y	66	66	77.8	61.2	55	53.4	-	-	-	500	0.2	150	121.5	10:1	40	85	8	460	3	18	20	Y	88x53x53	1170	1, 2, 3, 7
RTU-02	COMMON AREA	TRANE	YHC036	1300	305	1	CENTRIFUGAL	0.81	3/4	1121	Y	35	35	79	61	55	52.5	-	-	-	500	0.2	120	96	10:1	36	85	8	460	3	10	15	Y	70x44x36	770	1, 2, 3, 7
RTU-03	NORTH STORAGE	TRANE	YSJ150	4600	1210	1	PLENUM	1.87	3	1400	Y	124	124	79.5	60.9	55	52.5	-	-	-	500	0.2	250	202.5	10:1	33	85	8	460	3	33	45	Y	99x63x52	1530	1, 2, 3, 7
RTU-04	SOUTH STORAGE	TRANE	YSJ072	2200	535	1	PLENUM	0.7	3	1022	Y	59	59	79.2	60.9	55	52.5	-	-	-	500	0.2	150	121.5	10:1	35	85	8	460	3	18	20	Y	88x53x53	1170	1, 2, 3, 7
RTU-05	GYM	TRANE	YSJ072	2200	760	1	PLENUM	0.7	3	1022	Y	63	63	80.8	60.5	55	51.4	-	-	-	500	0.2	150	121.5	10:1	21	85	8	460	3	18	20	Y	88x53x53	1170	1, 2, 3, 7
NOTES:																																				
1) SIZE UNITS FOR ELEVATION OF 6,500 FT ABOVE SEA LEVEL.																																				
2) PROVIDE UNIT WITH FULLY PACKAGED DDC CONTROLS, CAPABLE OF STAND ALONE OPERATION.																																				
3) PROVIDE FACTORY MOUNTED AND WIRED 110 V POWER SUPPLY FOR LIGHTING AND RECEPTACLES																																				
4) PROVIDE UNIT WITH DEHUMIDIFICATION AND HOT GAS REHEAT, SIZED TO PROVIDE NEUTRAL AIR CONDITIONS AS INDICATED.																																				
5) PROVIDE WITH FACTORY ROOF CURB.																																				
6) PROVIDE WITH TYPE 409 STAINLESS STEEL HEAT EXCHANGER, DESIGNED FOR 100% OUTSIDE AIR OPERATION.																																				
7) UNIT LOCATED ON EXISTING ROOF CURB. FIELD VERIFY EXISTING ROOF CURB DIMENSIONS AND PROVIDE CURB ADAPTER TO MOUNT NEW RTU ON EXISTING CURB. PROVIDE THROUGH-THE-CURB ELECTRICAL CONNECTIONS.																																				

OUTSIDE AIR VENTILATION SCHEDULE - COMMON AREAS

HVAC UNIT	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (PEOPLE)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	Pz DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	OSA PROVIDED (CFM)
RTU-05	YOGA	385	40	20.00	0.06	16	10	223	1.0	223	225
RTU-05	GYM	2040	10	20.00	0.06	21	15	422	1.0	422	430
RTU-05	MUSIC	420	50	5.00	0.06	21	15	100	1.0	100	105
RTU-04	SOUTH STORAGE	4425	0	0.00	0.12	0	0	531	1.0	531	535
RTU-03	NORTH STORAGE	10050	0	0.00	0.12	0	0	1,206	1.0	1,206	1,210
RTU-02	COMMON AREA/STORAGE	2540	0	0.00	0.12	0	0	305	1.0	305	305
RTU-01	OFFICE 1 & 2	450	5	5.00	0.06	3	3	42	1.0	42	45
RTU-01	RECEPTION	180	30	5.00	0.06	6	3	26	1.0	26	30
RTU-01	OFFICE 3	125	5	5.00	0.06	1	1	13	1.0	13	15
RTU-01	MAILROOM	115	5	5.00	0.06	1	1	12	1.0	12	15
RTU-01	LOBBY	500	30	7.50	0.06	15	8	90	1.0	90	90
RTU-01	LOBBY CORRIDOR	1670	0	0.00	0.06	0	0	100	1.0	100	100
RTU-01	CONFERENCE ROOM	390	50	5.00	0.06	20	12	83	1.0	83	125
DOAS-01/02	LEVEL 1 APT CORRIDOR	5400	0	0.00	0.06	0	0	324	1.0	324	350
DOAS-01/02	LEVEL 2 APT CORRIDOR	5800	0	0.00	0.06	0	0	348	1.0	348	350
NOTES: 1) MINIMUM VENTILATION RATES CALCULATED IN ACCORDANCE WITH SECTION 402.0 OF THE 2021 NEW MEXICO MECHANICAL CODE.											

OUTSIDE AIR VENTILATION SCHEDULE - APARTMENTS

HVAC UNIT	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	Pz ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	OSA PROVIDED (CFM)
PTHP	STUDIO (EXTERIOR)	377	5.00	0.06	2	33	1.0	33	UP TO 65
DOAS	STUDIO (INTERIOR)	377	5.00	0.06	2	33	1.0	33	50
PTHP	STUDIO ADA (EXTERIOR)	375	5.00	0.06	2	33	1.0	33	UP TO 65
DOAS	STUDIO ADA (INTERIOR)	375	5.00	0.06	2	33	1.0	33	50
NOTES: 1) MINIMUM VENTILATION RATES CALCULATED IN ACCORDANCE WITH SECTION 402.0 OF THE 2021 NEW MEXICO MECHANICAL CODE FOR RESIDENTIAL DWELLING UNITS.									

EXHAUST VENTILATION SCHEDULE

HVAC UNIT	ROOM	NET OCCUPIABLE FLOOR AREA (SF)	EXHAUST AIRFLOW RATE (CFM/SF)	# OF UNITS	EXHAUST AIRFLOW RATE (CFM/UNIT)	REQUIRED EXHAUST AIRFLOW (CFM)	PROVIDED EXHAUST AIRFLOW (CFM)
CEF-01	RESIDENTIAL - KITCHEN	-	-	1.00	100	100	**100
(E) PRV	TOILETS - PRIVATE	-	-	1.00	25	25	**60
NOTES: 1) MINIMUM VENTILATION RATES CALCULATED IN ACCORDANCE WITH SECTION 402.0 OF THE 2021 NEW MEXICO MECHANICAL CODE (NMMC) FOR RESIDENTIAL DWELLING UNITS. *2) KITCHEN EXHAUST RATE BASED ON INTERMITTENT OPERATION, CONTROLLABLE BY OCCUPANT. EXHAUST TO BE PROVIDED BY OVERHEAD MICROWAVE VENT, LISTED FOR RECIRCULATION, AS REQUIRED BY NMMC 405.4. REFER TO ARCHITECTURAL FOR APPLIANCE SELECTION AND REQUIREMENTS. **3) TOILET EXHAUST RATE BASED ON CONTINUOUS OPERATION. EXHAUST PROVIDED BY EXISTING TO REMAIN, CONTINUOUSLY OPERATING, POWERED ROOF VENTILATORS.							

CONDENSING UNIT SCHEDULE

		BASIS OF DESIGN		AIR SOURCE HEAT PUMP CONDENSER										ELECTRICAL				APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC FAN	TONS NOM TONS	QTY OF COMPRESSORS	COMPRESSOR TYPE	CAP (MBH)	AMBIENT DB (°F)	SEER	CAP (MBH)	AMBIENT WB (°F)	HSPF	VOLTS	PH	MCA	MOCP			
CU-01	INTERIOR UNITS	LG	LSU090HSV5	FC-01	0.75	1	WALL	CU-01	300	0.75	9	75	60	55	54	10.9	208	1	10	15
NOTES: 1) OUTDOOR UNIT TO PROVIDE POWER TO INDOOR UNIT.																				1

FAN COIL SCHEDULE

		BASIS OF DESIGN		FAN COIL SCHEDULE										ELECTRICAL				APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
SYMBOL	AREA SERVED	MFR	MODEL	UNIT TYPE	ASSOC CU	FAN TOTAL CFM	NOM TONS	TOTAL CAP (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	HEAT PUMP HTG (MBH)	VOLTS	PH	MCA	MOCP			
FC-01	INTERIOR UNITS	LG	LSN090HSV5	WALL	CU-01	300	0.75	9	75	60	55	54	10.9	208	1	10	15	33x8x12	25	1, 2, 3
NOTES: 1) PROVIDE WITH WIRELESS REMOTE THERMOSTAT, LOCATED PER PLANS. 2) PROVIDE UNIT WITH INTEGRAL CONDENSATE PUMP. 3) OUTDOOR UNIT TO PROVIDE POWER FOR INDOOR UNIT.																				

PACKAGED TERMINAL HEAT PUMP (PTHP) UNIT SCHEDULE

PACKAGED TERMINAL HEAT PUMP (PTHP) UNIT SCHEDULE																		
SYMBOL	AREA SERVED	BASIS OF DESIGN		SUPPLY FAN CFM	DX COOLING COIL		HEAT PUMP HTG (MBH)	AUX HTG (KW)	STAGES	HEAT PUMP EFFICIENCY		REFRIGERANT	ELECTRICAL				MAX WT (LBS)	NOTES
		MFR	MODEL		NOM TONS	TOTAL CAP (MBH)				COOLING EER	HEATING COP		VOLTS	PH	MCA	MOCP		
PTHP-01	NORTH UNITS	AMANA	PTH-09	340	3/4	9	8.3	2.1	1	12	3.4	R-410	208	1	14.1	15	150	1,2,3,4,5,6
PTHP-02	SOUTH UNITS	AMANA	PTH-12	340	1	12	11.5	2.9	1	11	3.1	R-410	208	1	19.5	20	150	1,2,3,4,5,6
PTHP-03	WEST UNITS	AMANA	PTH-15	390	1-1/3	14.7	13.8	4.1	1	9.7	3.0	R-410	208	1	27.6	30	150	1,2,3,4,5,6
NOTES:																		
1)		PROVIDE WITH WIRELESS REMOTE THERMOSTAT (DSA01NM), LOCATED PER PLANS.																
2)		PROVIDE WITH CONDENSATE DISPERSION SYSTEM.																
3)		COORDINATE POWER CORD CONFIGURATION WITH DIVISION 26.																
4)		PROVIDE WITH STANDARD PTAC SLEEVE (WS900E) WITH CONDENSATE DRAIN KIT (DK900D).																
5)		PROVIDE WITH STANDARD OUTDOOR GRILLE.																
6)		PROVIDE WITH POWER VENT KIT, CONFIGURED TO OPERATE 24/7/365 FOR CONTINUOUS VENTILATION AIR, UP TO 95 CFM, TO UNIT.																

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	NOTES
CG-1	CEILING SUPPLY GRILLE	MODULAR PERFORATED	LAY-IN	NONE	WHITE	PRICE PDMC	1
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NONE	WHITE	PRICE PDDR	1
SG-1	SIDEWALL SUPPLY GRILLE	3/4" BAR SPACING, 0 DEG. DEFL.	1/4" BORDER	OBD	WHITE	PRICE 520	2
RG-1	SIDEWALL RETURN GRILLE	3/4" BAR SPACING, 0 DEG. DEFL.	1/4" BORDER	NONE	WHITE	PRICE 535	2
TG-1	SIDEWALL TRANSFER GRILLE	3/4" BAR SPACING, 0 DEG. DEFL.	1/4" BORDER	NONE	WHITE	PRICE 535	
NOTES: 1) PROVIDE FINISH TO MATCH EXPOSED DUCTWORK. 2) PROVIDE FIRE RATED ASSEMBLY OPTION WHERE INDICATED WITH A FIRE DAMPER ON PLANS.							

LOUVER SCHEDULE

		BASIS OF DESIGN		LOUVER SCHEDULE				FRAME SIZE		NOTES
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	AIR FLOW (CFM)	MAX APD (IN H2O)	MIN FREE AREA (SQ FT)	WIDTH (IN)	HEIGHT (IN)	
L-01	LAUNDRY	RUSKIN	ELF637SDX	STATIONARY	-	-	34	48	12	1
NOTES: 1) COORDINATE WITH ARCHITECT/OWNER FOR FINAL COLOR SELECTION.										

SHEET TITLE

SCHEDULES -
MECHANICAL

REVISIONS

DRAWN BY PHH

CHECKED BY JMM

JOB NO. 2022-1372

DATE 03/31/2023

SHEET NUMBER

M0.2

A. VERIFY LOCATIONS, DIMENSIONS, ELEVATIONS, ETC. OF EXISTING CONDITIONS AND UTILITIES. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.



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1. PROVIDE PTHP-01 FOR NORTH FACING PERIMETER APARTMENTS. REFER TO DETAIL 1/M7.1.
2. PROVIDE PTHP-02 FOR SOUTH FACING PERIMETER APARTMENTS. REFER TO DETAIL 1/M7.1.
3. PROVIDE PTHP-03 FOR WEST FACING PERIMETER APARTMENTS. REFER TO DETAIL 1/M7.1.
4. INSTALL BOTTOM OF DUCTWORK ABOVE TOP OF WINDOW GLAZING SO DUCT IS NOT VISIBLE FROM INSIDE OF UNIT.
5. PROVIDE 6 NEW DRYER EXHAUST CONNECTIONS. REFER TO DETAIL M7.1. PROVIDE MAKE UP AIR THROUGH TRANSFER GRILLE FROM CORRIDOR. PROVIDE EXHAUST AIR LOUVER AND PLENUM. ROUTE ALL DRYER EXHAUST FROM DRYER, UP THROUGH WALL TO ABOVE CEILING SPACE, AND OVER TO EXHAUST AIR PLENUM. TERMINATE AT PLENUM WITH BACKDRAFT DAMPER.
6. CONSTRUCT DRYER EXHAUST DUCT WITH ALUMINUM SHEET METAL, MINIMUM 24 GAUGE. SUBSTANTIALLY AIRTIGHT DUCT EXCEPT FOR OPENING REQUIRE FOR OPERATION AND MAINTENANCE. DUCT TO HAVE SMOOTH INTERIOR SURFACE. DO NOT ASSEMBLY WITH SHEET METAL SCREENS, SCREWS, OR OTHER DEVICES THAT EXTEND INTO THE AIRSTREAM.
7. PROVIDE 2" DEEP PLENUM ON BACK OF LOUVER. PROVIDE CONICAL CONNECTIONS FROM DRYER EXHAUST DUCT TO LOUVER. ALIGN LOUVER, CENTERLINE TO CENTERLINE. ABOVE DOOR BELOW. PROVIDE HANGERS ON LOUVER FOR LIGHT REMOVAL. NO SCREENS ARE PERMITTED.
8. OFFSET DUCT DOWN, BELOW LOWER LEVEL CEILING, UNDER SECOND FLOOR APARTMENTS. AFFIX DUCT TO WALL.



3009 W HISTORIC HWY 66
GALLUP, NM 87301

ST FLOOR PLAN -
MECHANICAL

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03/31/2023

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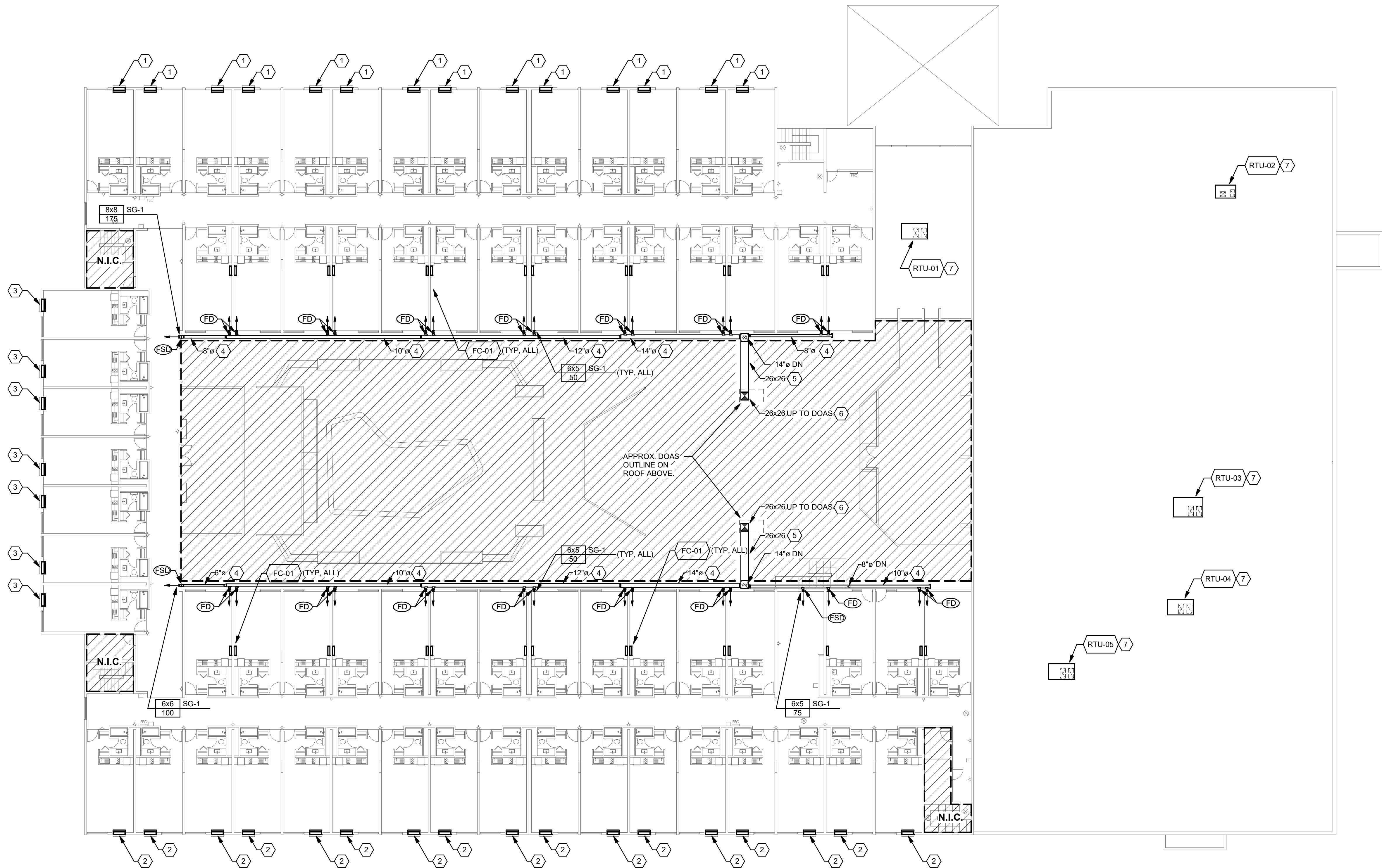
M1.0

GENERAL SHEET NOTES

A. VERIFY LOCATIONS, DIMENSIONS, ELEVATIONS, ETC. OF EXISTING CONDITIONS AND UTILITIES. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.

SHEET KEYNOTES

1. PROVIDE PTHP-01 FOR NORTH FACING PERIMETER APARTMENTS. REFER TO DETAIL 1M7.1.
2. PROVIDE PTHP-02 FOR SOUTH FACING PERIMETER APARTMENTS. REFER TO DETAIL 1M7.1.
3. PROVIDE PTHP-03 FOR WEST FACING PERIMETER APARTMENTS. REFER TO DETAIL 1M7.1.
4. INSTALL BOTTOM OF DUCTWORK ABOVE TOP OF WINDOW GLAZING SO DUCT IS NOT VISIBLE FROM INSIDE OF UNIT.
5. INSTALL DUCT IN BETWEEN STRUCTURAL FRAMING, TIGHT TO UNDERSIDE OF ROOF ABOVE, FOLLOWING ANGLE OF ROOF.
6. COORDINATE FINAL LOCATION OF DOAS ABOVE WITH EXISTING STRUCTURE. LOCATE SO DOAS DISCHARGE IS CENTERED BETWEEN STRUCTURAL MEMBERS. DETERMINE LOAD CAPACITY OF EXISTING STRUCTURE AND PROVIDE ADDITIONAL STRUCTURAL REINFORCEMENT AS REQUIRED TO SUPPORT INSTALL DOAS.
7. LOCATE RTU AT EXISTING ROOF CURB AND OPENING. FIELD VERIFY EXACT EXISTING CURB DIMENSIONS. PROVIDE CURB ADAPTER TO MOUNT NEW RTU ON EXISTING CURB.



1 SECOND FLOOR PLAN - MECHANICAL

0' 8' 16' 32'
1/16" = 1'-0"

HAVEN LIVING

3009 W HISTORIC HWY 66
GALLUP, NM 87301

SHEET TITLE

SECOND FLOOR PLAN -
MECHANICAL

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GENERAL SHEET NOTES

- A. VERIFY LOCATIONS, DIMENSIONS, ELEVATIONS, ETC. OF EXISTING CONDITIONS AND UTILITIES. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.

SHEET KEYNOTES

1. ALIGN DOAS WITH EXISTING TO REMAIN ROOFTOP AHUS. COORDINATE FINAL LOCATION OF DOAS WITH EXISTING STRUCTURE BELOW. LOCATE SO DOAS DISCHARGE IS CENTERED BETWEEN STRUCTURAL MEMBERS. DETERMINE LOAD CAPACITY OF EXISTING STRUCTURE AND PROVIDE ADDITIONAL STRUCTURAL REINFORCEMENT AS REQUIRED TO SUPPORT DOAS INSTALLATION.
2. DEMOLISH EXISTING CURB SUPPORTING PREVIOUS CONDENSING UNIT COMPLETE. PROVIDE AND INSTALL CURBS FOR NEW CONDENSING UNITS PER DETAIL 2/M7.1.
3. EXISTING POWER ROOF VENTILATOR SERVING UNIT TOILET EXHAUST TO REMAIN. INSPECT, SERVICE, AND REBALANCE EXISTING EQUIPMENT AS REQUIRED FOR PROPER OPERATION AND TO EXHAUST 60 CFM FROM EACH TOILET ROOM.
4. ROUTE RS, RL, COMMUNICATIONS, AND POWER PIPING/CONDUIT FROM CU TO ROOF JACK PENETRATION. SUPPORT ALL PIPING PER DETAIL 5/M7.1. PROVIDE INSULATION AND ALUMINUM JACKETING ON ALL REFRIGERANT PIPING EXPOSED TO WEATHER.
5. COORDINATE ROOF PENETRATION LOCATIONS TO ALIGN WITH CHASE BELOW. PROVIDE ROOF JACK FOR WEATHERPROOFING PER DETAIL 6/M7.1 AT ALL ROOF PENETRATION LOCATIONS.



1 ROOF PLAN - MECHANICAL

0' 8' 16' 32'
1/16" = 1'-0"

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3009 W HISTORIC HWY 66
GALLUP, NM 87301

SHEET TITLE

ROOF PLAN -
MECHANICAL

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2022-1372

DATE
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GENERAL SHEET NOTES

- A. VERIFY LOCATIONS, DIMENSIONS, ELEVATIONS, ETC. OF EXISTING CONDITIONS AND UTILITIES. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.



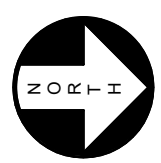
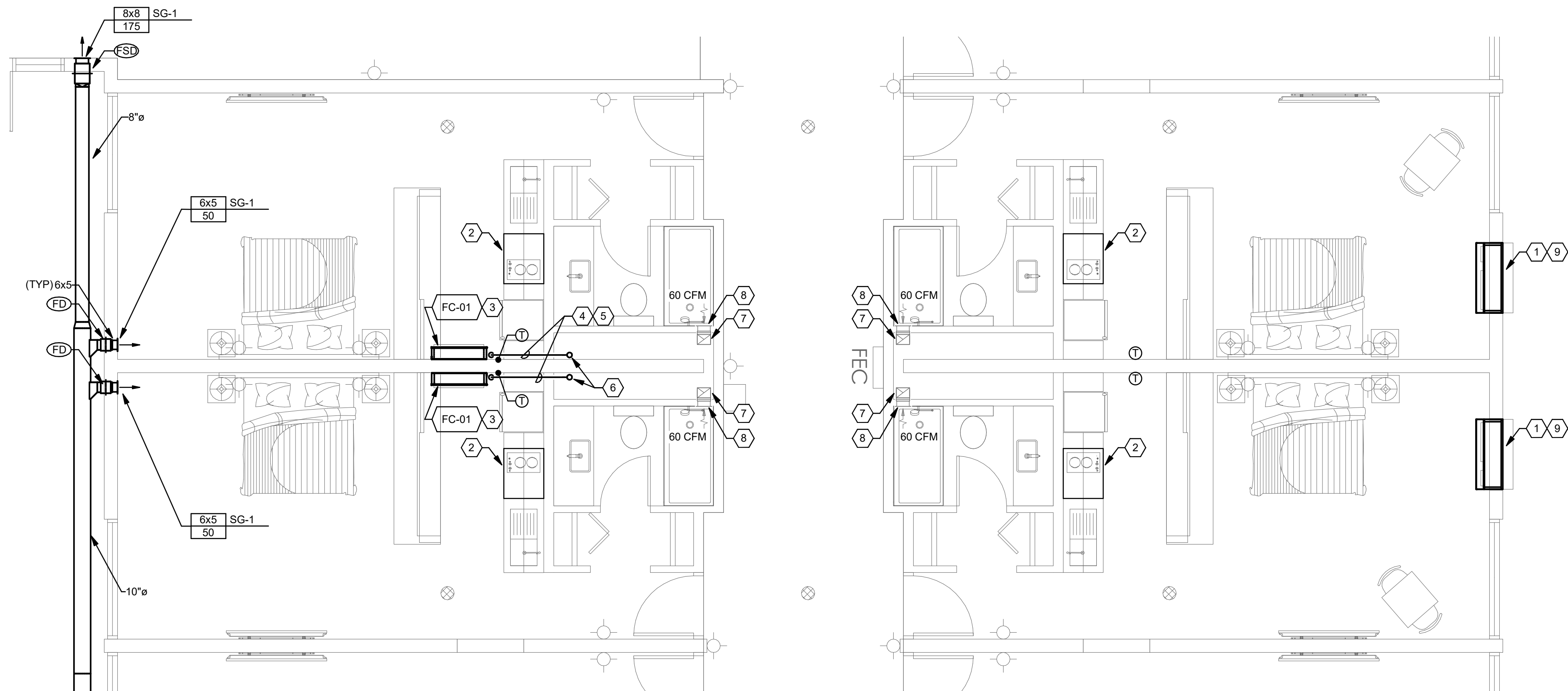
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ENGINEERING

PROJECT 2022-1135
CONTACT PAUL HOLLOWELL
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com



SHEET KEYNOTES

1. PROVIDE PTHP-01 FOR NORTH FACING PERIMETER APARTMENTS, PTHP-02 FOR SOUTH FACING PERIMETER APARTMENTS, AND PTHP-03 FOR WEST FACING PERIMETER APARTMENTS. REFER TO OVERALL FLOOR PLANS AND TO DETAIL 1/M7.1.
2. MICROWAVE LOCATED ABOVE COOKTOP WITH INTEGRAL VENT, LISTED FOR RECIRCULATION, PROVIDED BY OTHERS. REFER TO ARCHITECTURAL.
3. PROVIDE WALL MOUNTED FAN COIL UNIT FOR ALL INTERIOR UNITS. INSTALL HIGH ON WALL, MAINTAINING ALL MANUFACTURER RECOMMENDED CLEARANCES FOR AIRFLOW AND MAINTENANCE.
4. ROUTE RS, RL, COMMUNICATIONS, POWER, AND PUMPED CONDENSATE PIPING/CONDUIT FROM FC TO CHASE, CONSOLIDATED IN SINGLE CONDUIT, EXPOSED, TIGHT ALONG WALL AND TO UNDERSIDE OF STRUCTURE.
5. ROUTE PUMPED CONDENSATE FROM FC TO NEAREST DRAIN OR APPROVED SINK TAILPIECE. COORDINATE WITH PLUMBING CONTRACTOR.
6. PIPING/CONDUIT UP TO ROOF. COORDINATE FINAL LOCATION WITH EXISTING CHASE CONSTRAINTS AND ROOF JACK LOCATIONS ABOVE.
7. EXISTING TO REMAIN EXHAUST DUCT RISER UP TO POWERED ROOF VENTILATOR ON ROOF.
8. EXISTING TO REMAIN EXHAUST GRILLE FOR TOILET EXHAUST. REBALANCE TO ORIGINAL DESIGN AIRFLOW, 60 CFM.
9. UNIT OUTSIDE VENTILATION AIR PROVIDED BY CONTINUOUSLY OPERATING VENT KIT, INTEGRAL TO PTHP.



1 FLOOR PLAN TYPICAL UNITS - MECHANICAL

0' 2' 4' 6'
1/4" = 1'-0"

HAVEN LIVING

3009 W HISTORIC HWY 66
GALLUP, NM 87301

SHEET TITLE

ENLARGED UNIT PLANS
- MECHANICAL

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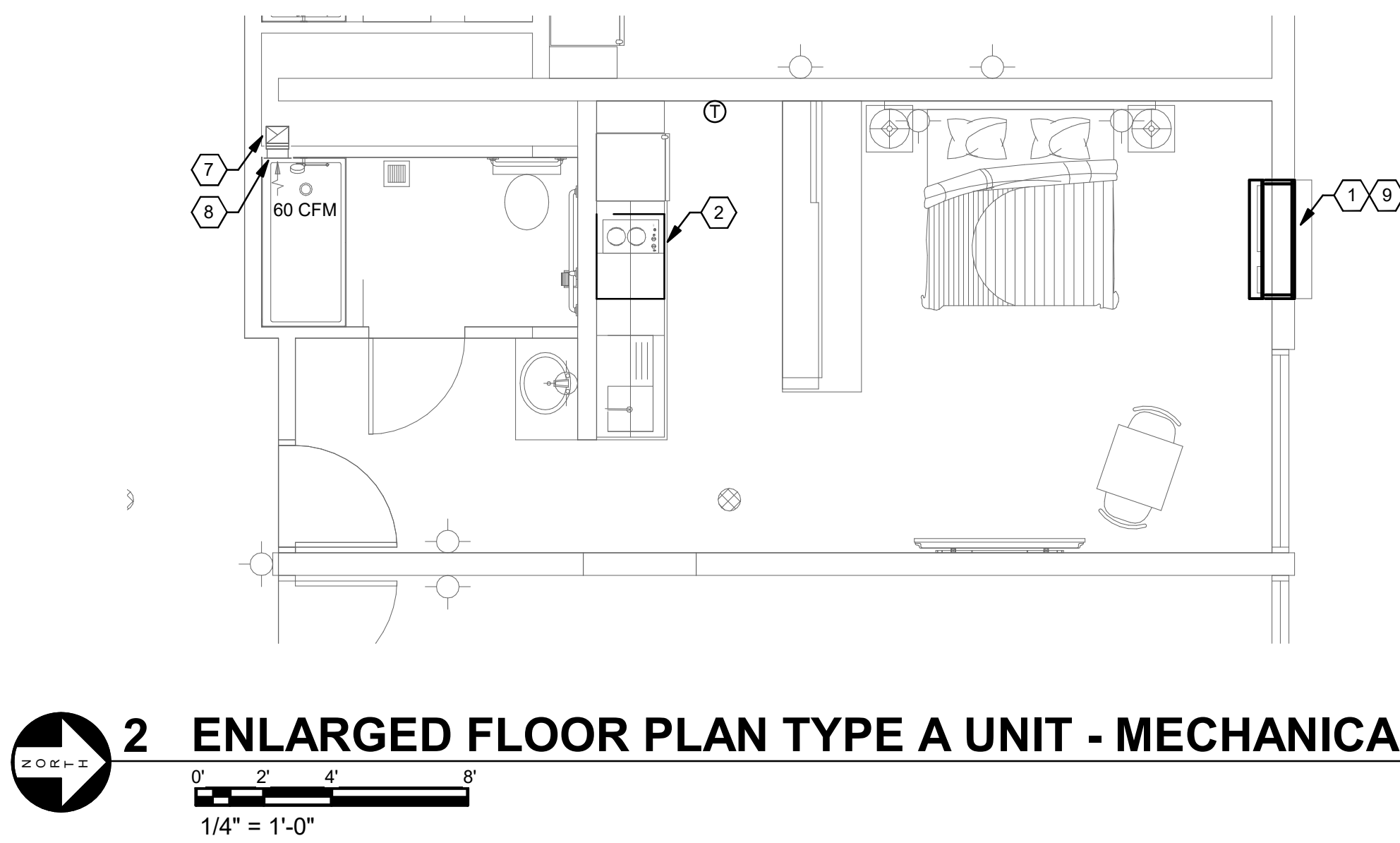
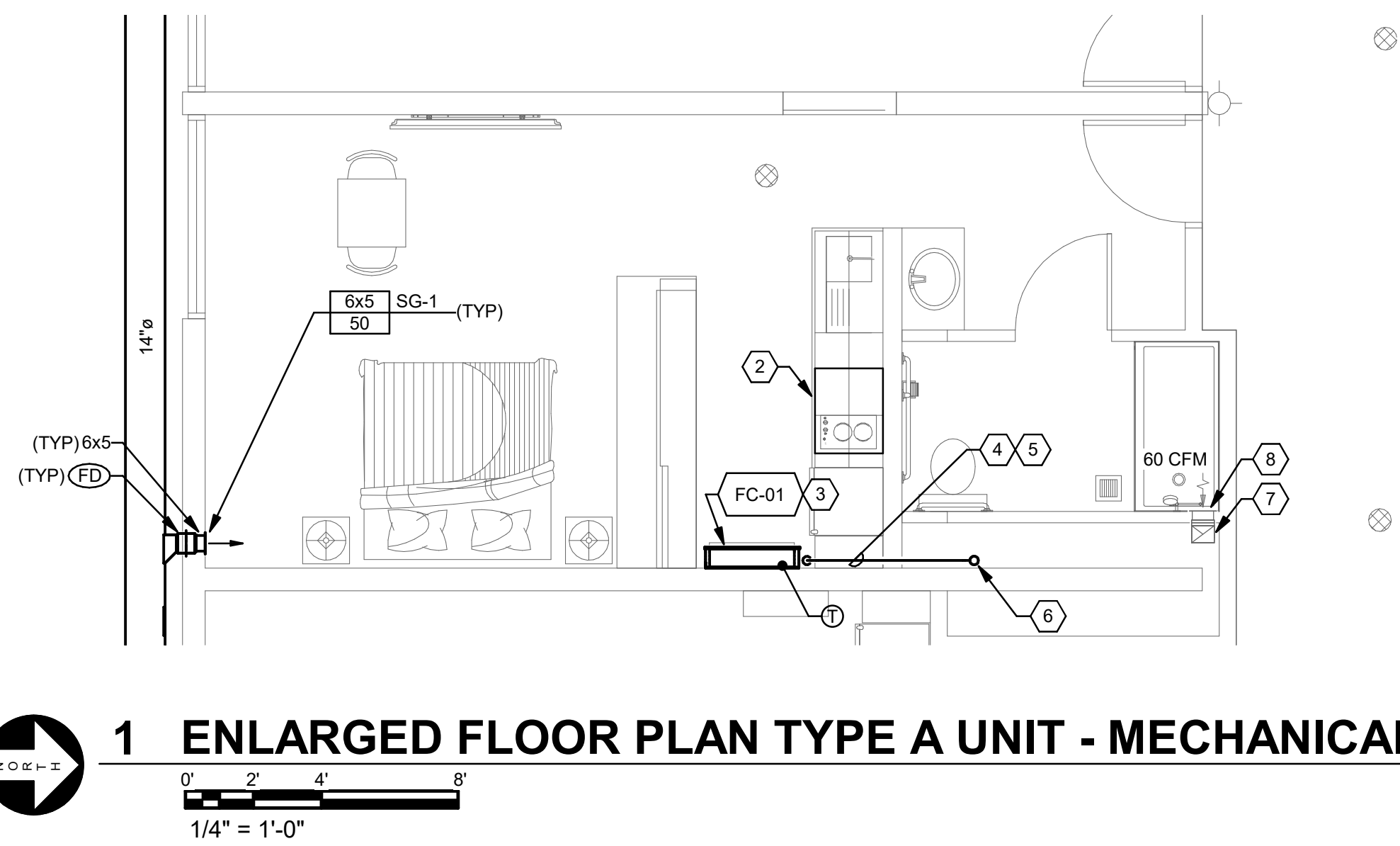


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Portland, OR 97204
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A. VERIFY LOCATIONS, DIMENSIONS, ELEVATIONS, ETC. OF EXISTING CONDITIONS AND UTILITIES. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.

1. PROVIDE PTHP-01 FOR NORTH FACING PERIMETER APARTMENTS. PTHP-02 FOR SOUTH FACING PERIMETER APARTMENTS. AND PTHP-03 FOR SOUTH FACING PERIMETER APARTMENTS. REFER TO OVERALL FLOOR PLANS AND TO DETAIL 1/M7.1.
2. RECIRCULATE EXHAUST HOOD LOCATED ABOVE COOKTOP. WITH REMOTE OPERATION MOUNTED IN ACCESSIBLE LOCATION, LISTED FOR RECIRCULATION. PROVIDED BY OTHERS. REFER TO ARCHITECTURAL.
3. PROVIDE WALL MOUNTED FAN COIL UNIT FOR ALL INTERIOR UNITS. INSTALL HIGH ON WALL, MAINTAINING ALL MANUFACTURER RECOMMENDED CLEARANCES FOR AIRFLOW AND MAINTENANCE.
4. ROUTE RS, RL COMMUNICATIONS, POWER, AND PUMPED CONDENSATE PIPING/CONDUIT FROM FC TO CHASE. CONSOLIDATED WITH EXISTING CONDUIT, EXPOSED, TIGHT AGAINST WALL AND TO UNDERSIDE OF STRUCTURE.
5. ROUTE PUMPED CONDENSATE FROM FC TO NEAREST DRAIN OR APPROVED SINK TAILPIPE.
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9. UNIT DRAIN VENTILATION AIR PROVIDED BY CONTINUOUSLY OPERATING VENT KIT, INTEGRAL TO PTHP.



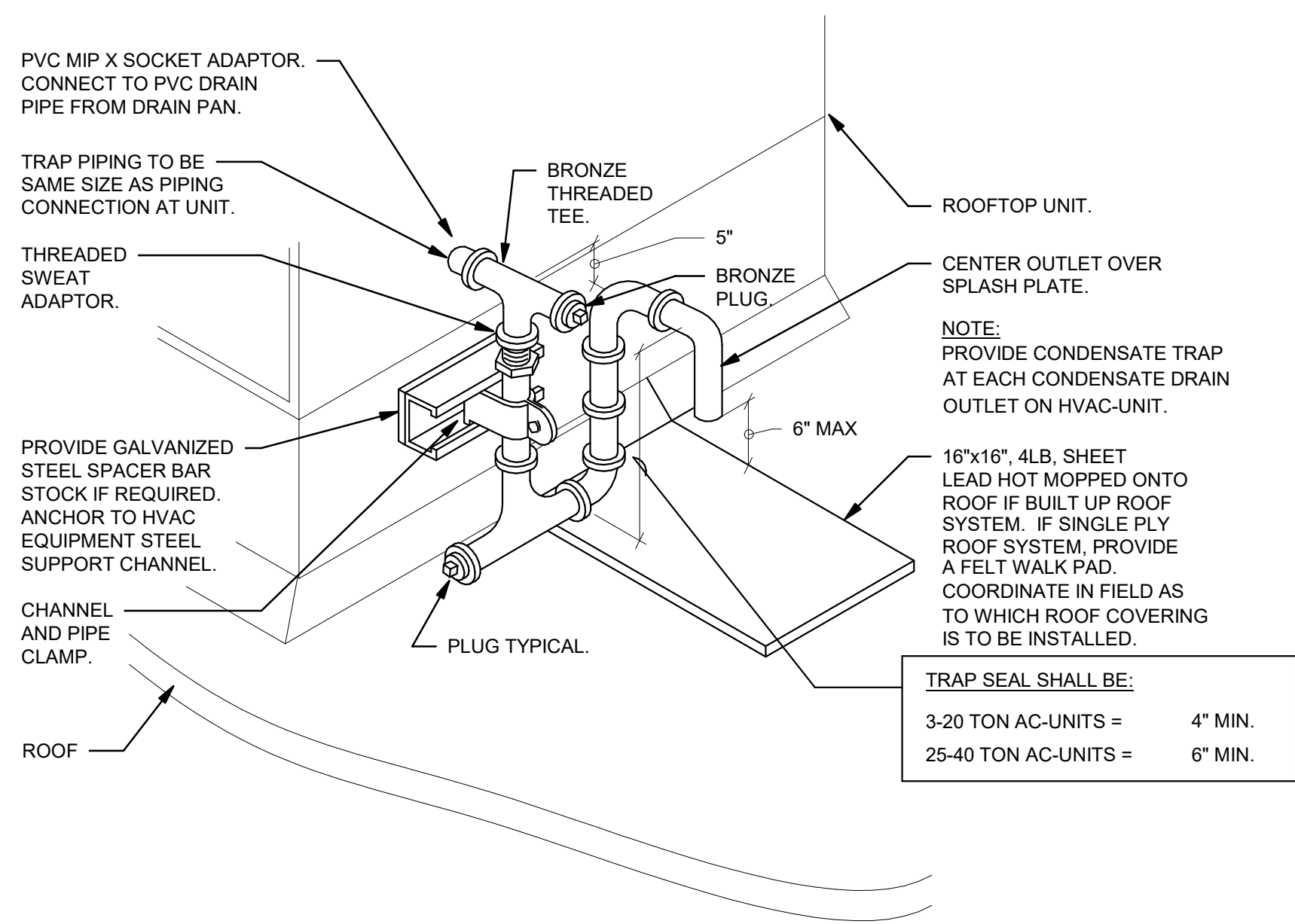
HAVEN LIVING
3009 W HISTORIC HWY 66
GALLUP, NM 87301

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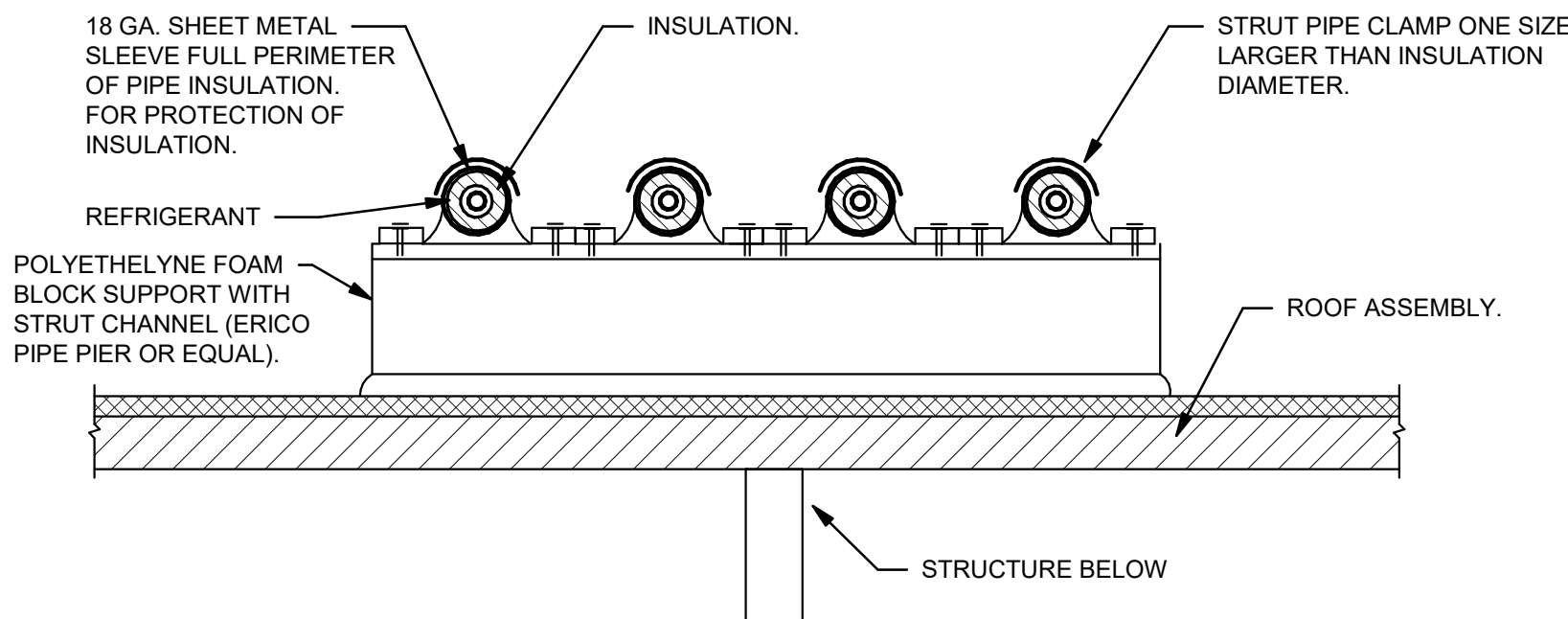
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NO.	2022-1372
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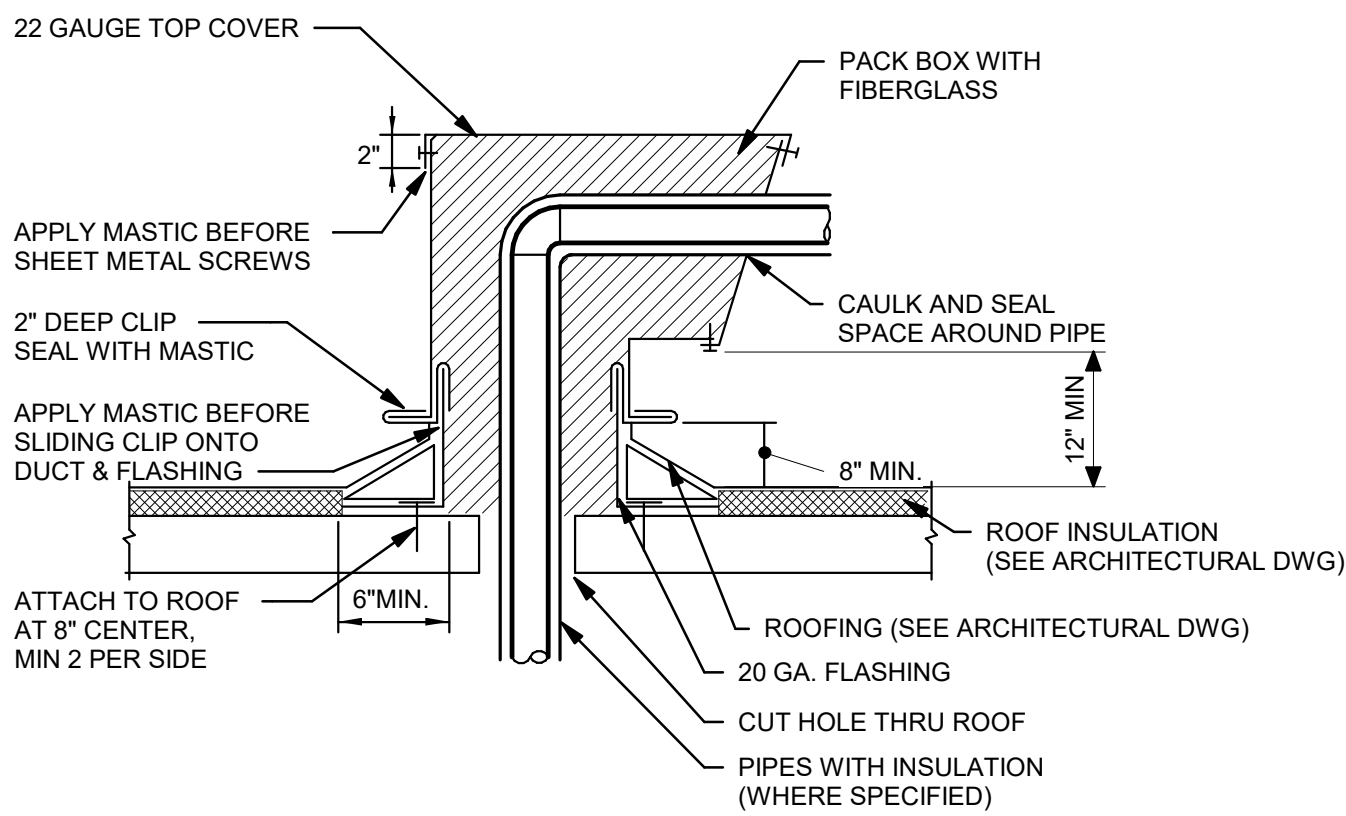
8 CONDENSATE TRAP

NO SCALE



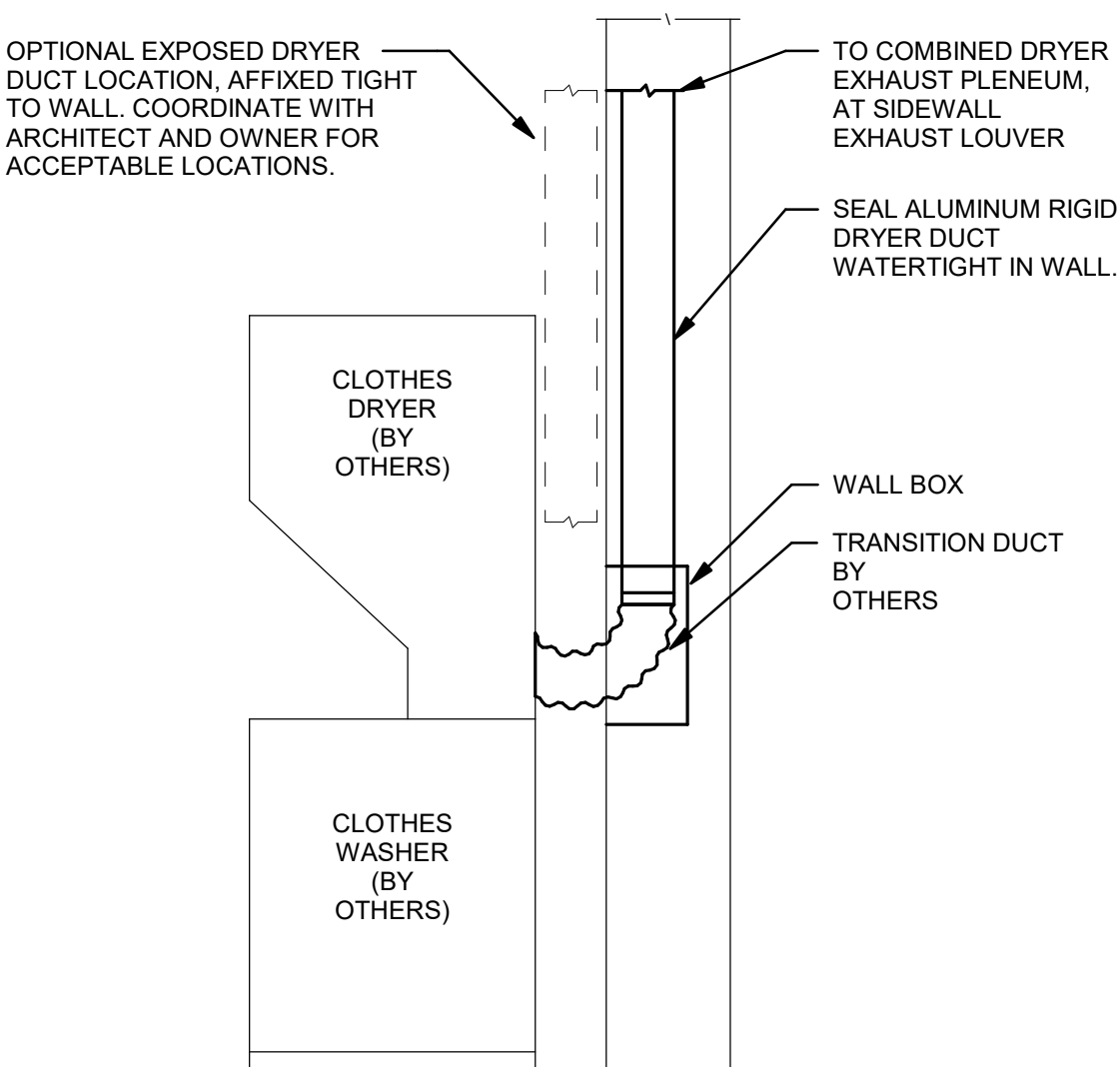
5 ROOFTOP REFRIGERATION PIPING SUPPORT

NO SCALE



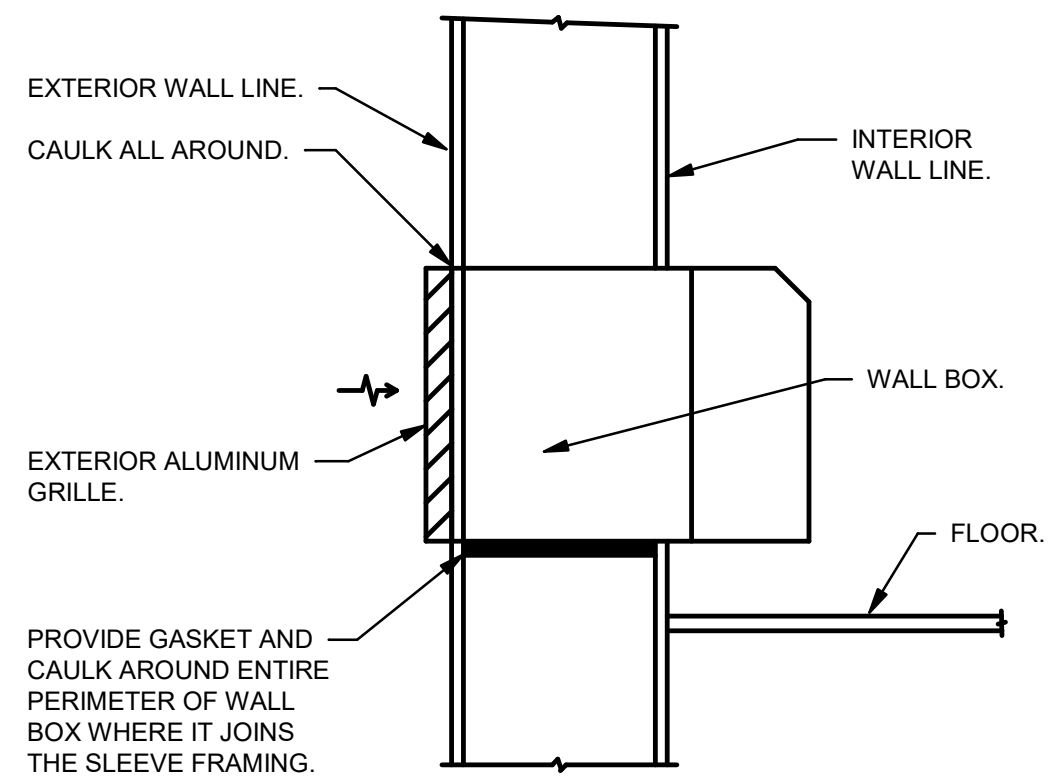
6 ROOF JACK FOR PIPES THRU ROOF

NO SCALE



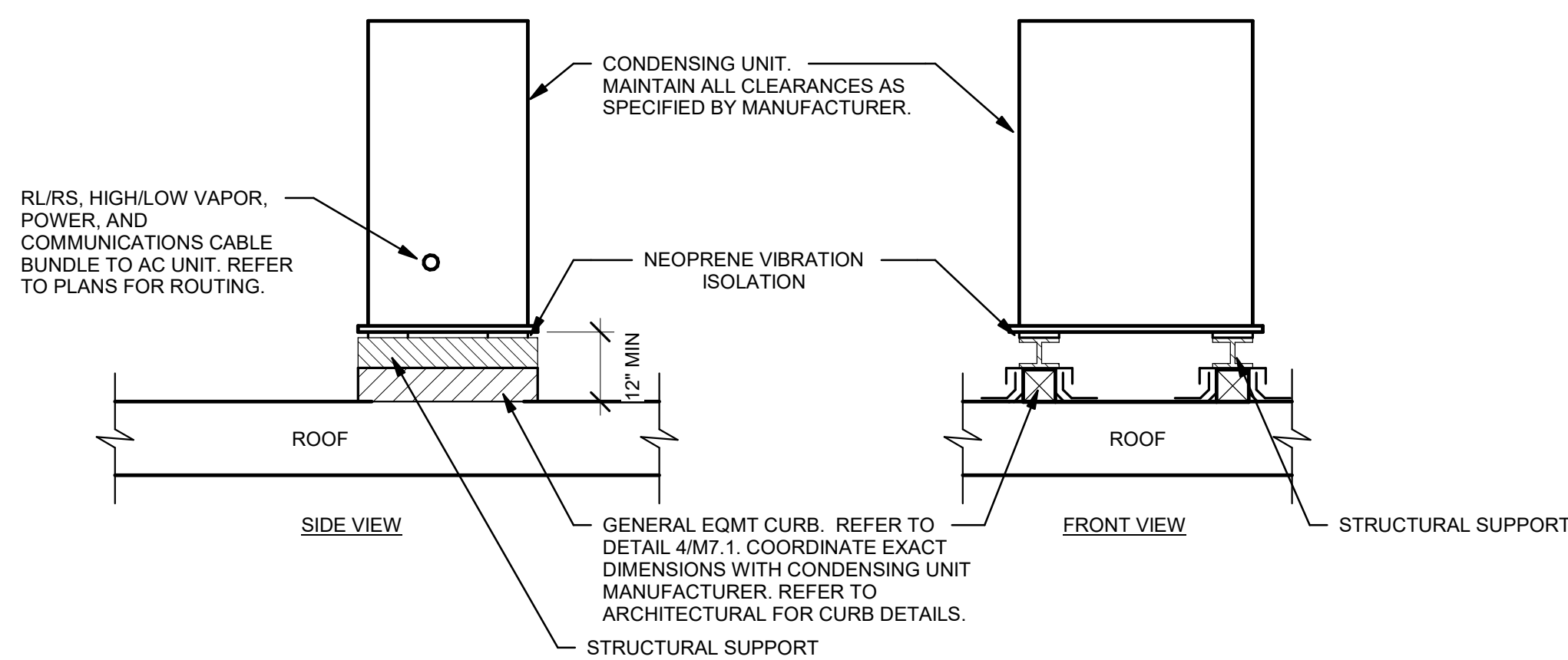
7 DRYER VENT DETAIL

NO SCALE



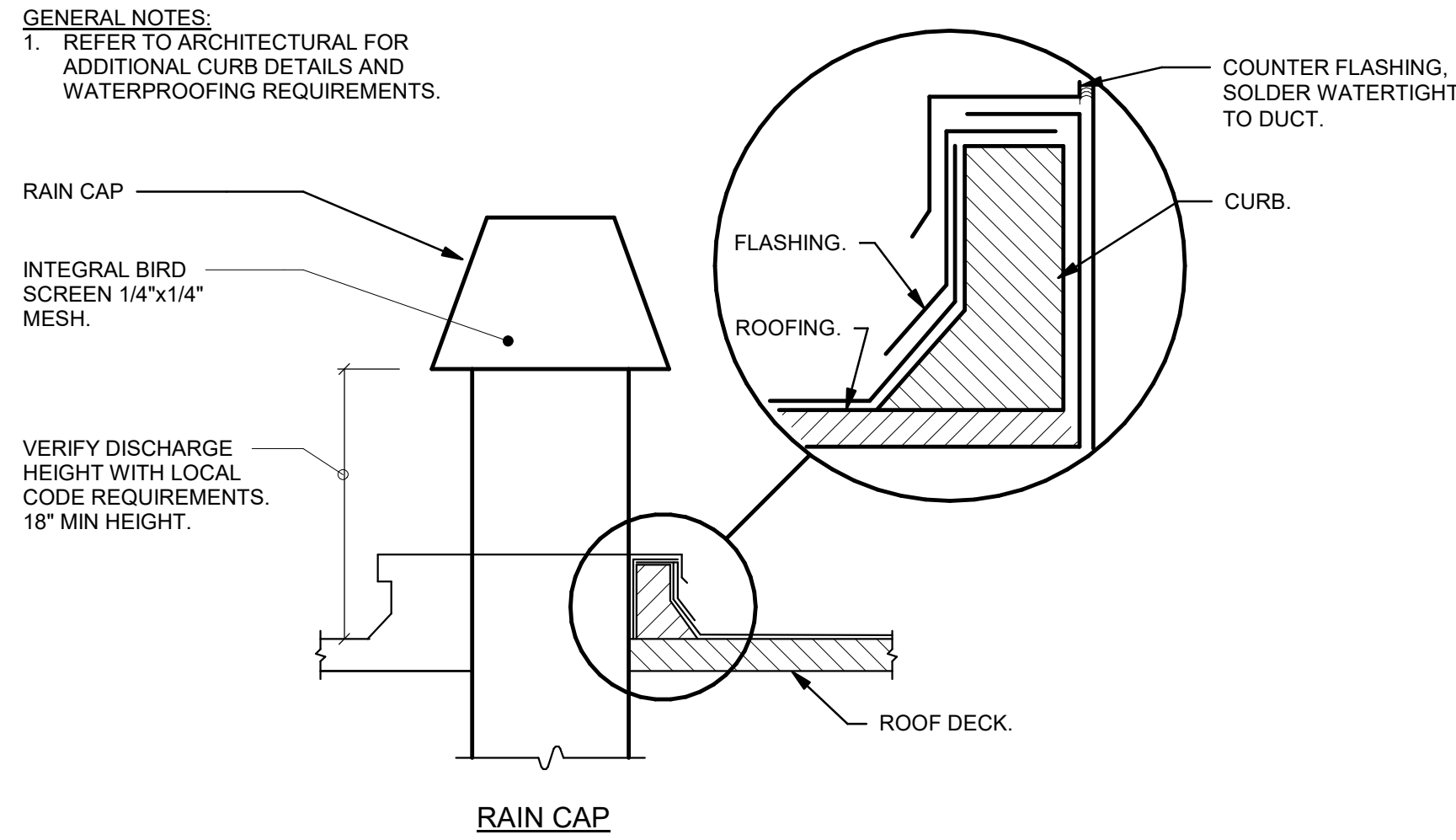
1 THRU THE WALL HEAT PUMP

NO SCALE



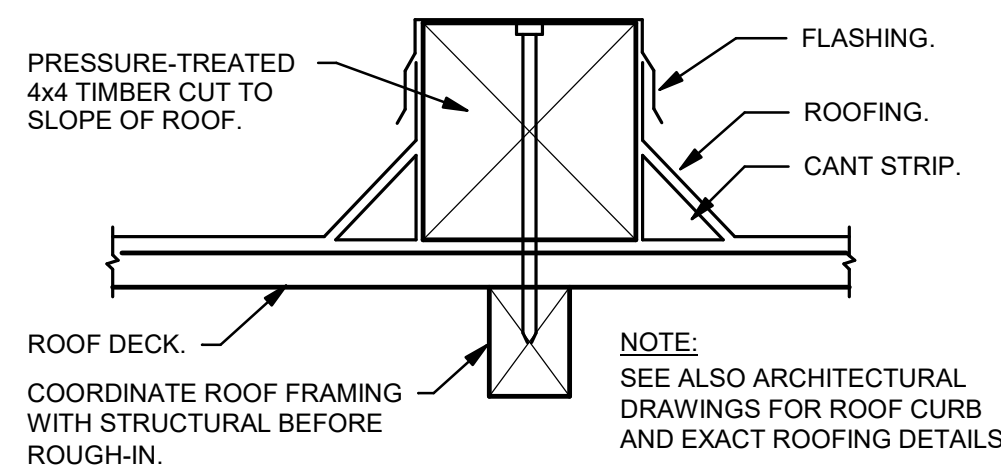
2 CONDENSING UNIT - ROOF-MOUNTED

NO SCALE



3 ROOF TERMINATION - RAIN CAP

NO SCALE



4 GENERAL EQMT CURB

NO SCALE