

MECHANICAL SHEET LIST	
Sheet Number	Sheet Title
M100	MECHANICAL GENERAL NOTES AND LEGEND
M101	MECHANICAL SCHEDULES, ENLARGED PLAN AND DETAILS
M102	MECHANICAL DETAILS
MD201	MECHANICAL FIRST FLOOR DEMOLITION PLAN
MD202	MECHANICAL SECOND DEMOLITION PLAN
MD203	MECHANICAL THIRD DEMOLITION PLAN
M201	MECHANICAL FIRST FLOOR PLAN
M202	MECHANICAL SECOND FLOOR PLAN
M203	MECHANICAL THIRD FLOOR PLAN
M204	MECHANICAL ATTIC PLAN

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	CONDENSATE PIPING
	REFRIGERANT GAS
	REFRIGERANT LIQUID
	PIPE DOWN
	PIPE UP
	CLEANOUT (CO)
	POINT OF CONNECTION
	SUPPLY AIR-DUCT UP
	EXHAUST/RETURN AIR - DUCT UP
	OUTSIDE AIR DUCT UP
	SUPPLY AIR - DUCT DOWN
	EXHAUST/RETURN AIR - DUCT DOWN
	OUTSIDE AIR DUCT DOWN
	SOUNDLINED DUCT
	DUCT UP (ROUND)
	DUCT DOWN (ROUND)
	AIR TERMINAL SIZE, TYPE & CFM
	DOOR LOUVER W/ SIZE
	CEILING AIR TERMINAL - SQUARE
	CEILING AIR TERMINAL - ROUND
	FLEXIBLE DUCT
	VOLUME DAMPER (VD)
	FIRE/SMOKE DAMPER (CFSD) - COMBINATION
	MOTORIZED DAMPER
	BACKDRAFT DAMPER (BDD)
	FLEXIBLE CONNECTION (DUCT)
	TURNING VANES (TV)
	ROOM TEMPERATURE SENSOR/THERMOSTAT

MECHANICAL ABBREVIATIONS			
Ø	DIAMETER, PHASE	G.C.	GENERAL CONTRACTOR
A	AIR	GPH	GALLONS PER HOUR
ABV	ABOVE	GPM	GALLONS PER MINUTE
AC	AIR CONDITIONING UNIT	HP	HEAT PUMP, HORSEPOWER
ADA	AMERICANS WITH DISABILITIES ACT	HTR	HEATER
AFB	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATION & AIR CONDITIONING
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	IN	INCH
AMB	AMBIENT	KW	KILOWATT
APD	AIR PRESSURE DROP	LAT	LEAVING AIR TEMPERATURE
APPROX	APPROXIMATE	LAV	LAVATORY
ARCH	ARCHITECT	LF	LINEAR FEET
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS, INC.	LL	REFRIGERANT LIQUID LINE
BDD	BACKDRAFT DAMPER	LRA	LOCKED ROTOR AMPS
BFF	BELOW FINISHED FLOOR	LVG	LEAVING
BHP	BRAKE HORSEPOWER	LVR	LOUVER
BLDG	BUILDING	LWT	LEAVING WATER TEMPERATURE
BTUH	BRITISH THERMAL UNIT PER HOUR	MAT	MIXED AIR TEMPERATURE
CA	AIR COMPRESSOR	MAV	MANUAL AIR VENT
CAP	CAPACITY	MAX	MAXIMUM
CD	CEILING DIFFUSER	MBH	THOUSANDS OF BTUH
CFH	CUBIC FEET PER HOUR	MCA	MINIMUM CIRCUIT AMPACITY
CFM	CUBIC FEET PER MINUTE	M.C.	MECHANICAL CONTRACTOR
CL	CENTER LINE	MECH	MECHANICAL
CLG	CEILING	MED	MEDIUM
CO	CLEANOUT	MERV	MINIMUM EFFICIENCY REPORTING VALUE
COMB	COMBUSTION, COMBINATION	MFR	MANUFACTURER
COND	CONDENSATE PIPING	MIN	MINIMUM
CONN	CONNECTION	MISC	MISCELLANEOUS
COP	COEFFICIENT OF PERFORMANCE	MOC	MOC
CP	CONDENSATE PUMP	MUA	MAKE-UP AIR
CU	CONDENSING UNIT, CUBIC	NC	NOISE CRITERIA, NORMALLY CLOSED
CW	DOMESTIC COLD WATER	NO	NORMALLY OPEN
DB	DRY BULB	NO.	NUMBER
DDCV	DOUBLE DETECTOR CHECK VALVE	NTS	NOT TO SCALE
DEPT	DEPARTMENT	OC	ON CENTER
DEG	DEGREE	OSA	OUTSIDE AIR
DF	DRINKING FOUNTAIN	PD	PRESSURE DROP
DFU	DRAINAGE FIXTURE UNIT	PH	PHASE
DI	DUCTILE IRON	PIV	POST INDICATOR VALVE
DIA	DIAMETER	POC	POINT OF CONNECTION
DIAG	DIAGRAM	PR	CONDENSATE PUMP RETURN
DIFF	DIFFERENTIAL	PRV	PRESSURE REDUCING VALVE
DIM	DIMENSION	PSI	POUNDS PER SQUARE INCH
DN	DOWN	PVC	POLYVINYL CHLORIDE
DX	DIRECT EXPANSION	QTY	QUANTITY
DWG	DRAWING	RA	RETURN AIR
(E)	EXISTING	RCP	REFLECTED CEILING PLAN
EA	EACH, EXHAUST AIR	REL	RELIEF
EAT	ENTERING AIR TEMPERATURE	REQD	REQUIRED
E.C.	ELECTRICAL CONTRACTOR	RET	RETURN
ECG	EGGCRATE GRILLE	RH	ROOF HOOD
EER	ENERGY EFFICIENCY RATIO	RLA	RATED LOAD AMPS
EF	EXHAUST FAN	ROD	ROOF OVERFLOW DRAIN
EFF	EFFICIENCY	SA	SUPPLY AIR
EG	EXHAUST GRILLE	SD	SMOKE DAMPER
ELEC	ELECTRIC	SG	SUPPLY GRILLE
ELEV	ELEVATION	SL	REFRIGERANT SUCTION LINE
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC.
ENT	ENTERING	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	STD	STANDARD
ESP	EXTERNAL STATIC PRESSURE	SUP	SUPPLY
ET	EXPANSION TANK	TG	TRANSFER GRILLE
EUH	ELECTRIC UNIT HEATER	TOP	TOP OF PIPE
EVAP	EVAPORATOR, EVAPORATIVE	TSP	TOTAL STATIC PRESSURE
EWH	ELECTRIC WATER HEATER	T'STAT	THERMOSTAT
EWT	ENTERING WATER TEMPERATURE	TYP	TYPICAL
EXH	EXHAUST	UH	UNIT HEATER
EX.	EXISTING	VAV	VARIABLE AIR VOLUME UNIT
EXT	EXTERIOR, EXTERNAL	VD	VOLUME DAMPER
°F	DEGREES FAHRENHEIT	VEL	VELOCITY
FLA	FULL LOAD AMPS	VENT	VENTILATION, VENTILATOR
FLEX	FLEXIBLE	VFD	VARIABLE FREQUENCY DRIVE
FPM	FEET PER MINUTE	WB	WET BULB
FPS	FEET PER SECOND	WSEC	WASHINGTON STATE ENERGY CODE
FT	FEET, FINNED TUBE	WSFU	WATER SUPPLY FIXTURE UNIT

MECHANICAL GENERAL NOTES	
1.	STANDARD CURRENT TRADE PRACTICES & METHODS APPLY TO THIS PROJECT. ALL WORK IS TO MEET REQUIREMENTS OF ALL CURRENT CODE & LOCAL JURISDICTIONAL REQUIREMENTS AND AMENDMENTS. THESE CODES INCLUDE BUT ARE NOT LIMITED TO WASHINGTON STATE ENERGY CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, UNIFORM PLUMBING CODE, NFPA, INTERNATIONAL FIRE CODE, & LOCAL JURISDICTIONAL REQUIREMENTS. COMPLY WITH ALL MANUFACTURER'S REQUIREMENTS. COORDINATE WITH OWNER'S REPRESENTATIVE FOR ANY VARIANCES.
2.	DRAWINGS ARE DIAGRAMMATIC ONLY & NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. VERIFY LOCATION & MEASUREMENTS OF ALL ITEMS ON THE JOB SITE PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE ALL OFFSETS & ADDITIONAL DUCTWORK & PIPING AS NECESSARY TO AVOID STRUCTURAL ELEMENTS ON THE PROJECT. CONTRACTOR SHALL PRODUCE SHOP DRAWINGS & COORDINATE WITH OTHER TRADES. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THIS COORDINATION OR FOR EXTRA MATERIAL REQUIRED IN ORDER TO ACCOMPLISH THIS TASK.
3.	PROVIDE COMPLETE & FULLY-OPERATING SYSTEMS.
4.	COORDINATE LOCATIONS OF ALL EQUIPMENT & APPURTENANCES WITH OTHER TRADES.
5.	ALL EQUIPMENT SHALL BE REGULARLY CATALOGED ITEMS OF THE MANUFACTURER & SHALL BE SUPPLIED AS A COMPLETE UNIT IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD SPECIFICATIONS. ANY OPTIONAL ITEMS REQUIRED FOR PROPER INSTALLATION SHALL BE INCLUDED UNLESS OTHERWISE NOTED.
6.	ANY CUTTING, PATCHING & PAINTING OF BUILDING ELEMENTS & FINISHED SURFACES IS TO BE DONE BY THE GENERAL CONTRACTOR.
7.	ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE.
8.	ALL EQUIPMENT SHALL BE LABELED PER PLANS & THE REQUIREMENTS OF THE SPECIFICATIONS.
9.	RATING OF ACCESS DOORS AND/OR ACCESS PANELS THROUGH FIRE-RATED WALLS, SHAFTS, CEILING, ETC., MUST EQUAL THE FIRE RATING OF THE MATERIAL PENETRATED.
10.	CAULK & FLASH ALL PENETRATIONS PER CODE.
11.	ADJUSTING & BALANCING: ADJUST EACH PART OF SYSTEM TO ENSURE PROPER FUNCTIONING OF ALL CONTROLS & SPECIFIED AIR DISTRIBUTION. LEAVE ENTIRE SYSTEM IN OPERATING CONDITION.
12.	PROVIDE OPERATING & MAINTENANCE MANUALS (O&MS), RECORD DRAWINGS, & OWNER TRAINING.
13.	PROVIDE NATIONAL ELECTRICAL CODE (NEC) MINIMUM WORKING CLEARANCE IN FRONT OF ANY ELECTRICAL PANEL, INCLUDING PANELS ON EQUIPMENT, RE-ROUTE OR OFFSET PIPING AND/OR DUCTWORK AS REQUIRED.
14.	PROTECT PIPING INSULATION PER REQUIREMENTS OF WSEC C403.10.3.1
15.	PROVIDE COMMISSIONING OF THE HVAC SYSTEM. INCLUDE FUNCTIONAL TESTING SEQUENCE OF OPERATION & TEST PROCEDURES PER WASHINGTON STATE ENERGY CODE. SEE SPECIFICATIONS FOR SPECIFIC EQUIPMENT TESTING REQUIREMENTS. ITEMS TO BE COMMISSIONED ARE: CONTROL SYSTEMS, HEAT PUMPS, SYSTEMS SHALL BE BALANCED SO AS TO FIRST MINIMIZE THROTTLING LOSSES, THEN ADJUSTED TO MEET DESIGN FLOW CONDITIONS. PROVIDE PRELIMINARY AND FINAL COMMISSIONING REPORTS. SUBMIT FIGURE C408.1.4.1 COMPLIANCE CHECKLIST FROM WASHINGTON STATE ENERGY CODE TO AUTHORITY HAVING JURISDICTION UPON COMPLETION OF PRELIMINARY COMMISSIONING REPORT. PROVIDE CLOSEOUT DOCUMENTS IN COMPLIANCE WITH C103.6
16.	PROVIDE AIR SYSTEM BALANCING DEVICES, INCLUDING VOLUME DAMPERS, AND ZONE DAMPERS ON TERMINALS AS SHOWN ON PLANS. TEST AND BALANCE ALL SYSTEMS
17.	VENTILATION SHALL BE PROVIDED PER IMC CHAPTER 4 OF THE IMC.
18.	TEMPERATURE CONTROLS SHALL BE MINIMUM OF 7-DAY PROGRAMMABLE TYPE PROVIDING SETPOINT TEMPERATURES, NIGHT SETBACK, MANUAL OVERRIDE, & MINIMUM 5-DEGREE DEADBAND. CONTROLS SHALL ALLOW FOR OPTIMUM START.
19.	HEAT PUMPS WITH AUXILIARY ELECTRIC HEAT SHALL HAVE CONTROLS COMPLYING WITH PARAGRAPH C403.4 OF THE WASHINGTON STATE ENERGY CODE.
20.	SEAL & TEST ALL DUCTWORK AS REQUIRED PER IMC, WSEC C403.10.2 LEAKAGE REQUIREMENTS, & IBC VAPOR RETARDER REQUIREMENTS. DUCTWORK DESIGN PRESSURE IS 2".
21.	ALL SHEET METAL DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE. TABLE C403.10.1.2 CONCEALED DUCTWORK LOCATED WITHIN THE CONDITIONED SPACE SHALL BE INSULATED WITH A MINIMUM OF R-3.3. DUCTWORK LOCATED IN UNCONDITIONED SPACES SHALL BE INSULATED WITH A MINIMUM OF R-6. WHERE LOCATED OUTSIDE OF THE BUILDING (OUTDOORS AND EXPOSED TO WEATHER), DUCTWORK SHALL BE INSULATED WITH A MINIMUM OF R-8.
22.	SOUND-LINE ALL SUPPLY, RETURN, OR EXHAUST DUCT WITHIN 10' OF FANS UNLESS NOTED OTHERWISE.
23.	ALL SHEET METAL PRODUCTS SHALL COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS, CURRENT EDITION.
24.	ALL RECTANGULAR DUCTWORK SIZES SHOWN ARE GALVANIZED SHEET METAL UNLESS NOTED OTHERWISE. ROUND DUCT SHALL BE SHEET METAL. PROVIDE TURNING VANES IN ALL ROUND 2-PIECE AND RECTANGULAR 90 DEGREE ELBOWS.
25.	ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
26.	SUPPORT FOR SUSPENDED EQUIPMENT SHALL INCLUDE APPURTENANCES AS NOTED IN ASHRAE AND REQUIRED IN CODE FOR SEISMIC/SWAY BRACING.
27.	PROVIDE VOLUME DAMPERS AT ALL GRILLES, REGISTERS, & DIFFUSERS IN ADDITION TO OPPOSED BLADE DAMPERS.
28.	REFERENCE BUILDING HVAC LOAD CALCULATIONS FOR EQUIPMENT CAPACITIES. NO HUMIDIFICATION PROVIDED. NO SIMULTANEOUS HEATING/COOLING ALLOWED.



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4-30-2026

PROJECT TITLE  
BRITTANY PARK  
KING COUNTY  
HOUSING AUTHORITY  
HVAC UPGRADES

PROJECT ADDRESS  
18265 1st ave. south  
Normandy Park,  
WA. 98148

KEY PLAN



REVISION	DATE
DWG ISSUE	4-30-26

SHEET TITLE  
MECHANICAL  
GENERAL  
NOTES AND  
LEGEND

DRAWN HT  
CHECKED DMM  
TWE JOB # 250603  
CLIENT JOB #  
SHEET SCALE

SHEET NUMBER

M100

SHEET 1 OF 10

HEAT PUMP AC UNIT SCHEDULE

UNIT NO	QUANTITY	MFR.	FAMILY	MODEL	TYPE	AREA SERVED	CFM	VENTS SIZE	COOLING CAPACITY (BTUH) MIN. - MAX. 95°F	HEATING CAPACITY (BTUH) MIN. - MAX. 47°F	COOLING EFFICIENCY SEER2 HEAT PUMP	ENERGY EFFICIENCY @ 47°F HSPF2	COMPRESSOR		AUXILIARY HEAT (WATT)	REFRIGERANT TYPE	COND. DRAIN PIPE (IN)	POWER CONNECTION W/ 1,800 HEAT STRIP			DIMENSION (WxHxD)	SOUND INDOOR STC	SOUND dB(A)		FILTER	WEIGHT (POUNDS)	NOTES
													RLA	LRA				VOLT/PH	MCA	MOCP			INDOOR	OUTDOOR			
VHP	43	EPHOCA	AIO	AVK10N3H2-3	VERTICAL STACK	SEE PLAN	300	8"	9,790	10,000	14.35	9.8	6	6	1800	R32	3/4"	230/1	20	25	28.7"x83.8"x12.4"	40	27-43	28-55	MERV8/13	170	1, 2, 3, 4, 5

1. PROVIDE 7-DAY PROGRAMMABLE WALL-MOUNTED WIRELESS REMOTE THERMOSTATS.  
 2. PROVIDE WITH FACTORY INTAKE/EXHAUST LOUVERS.  
 3. PROVIDE WITH FRONT, BACK SUPPLY AIR GRILLES AND LOW RETURN AIR GRILLE.  
 4. PROVIDE WITH CUSTOM UNIT CABINET/ENCLOSURE.  
 5. PROVIDE WITH GWX GATEWAY FOR 3RD PARTY THERMOSTAT, PROVIDE WITH KING ELECTRIC HEAT CONTROL KIT MODEL # KRF-B-KIT, UPC 70133, RF THERMOSTAT KIT, WITH KRFTP-B PROGRAMMABLE BP THERMOSTAT, KRFLR-120/240V HEAT RELAY AND KRFR-24V HEAT PUMP RELAY.

EXHAUST FAN SCHEDULE

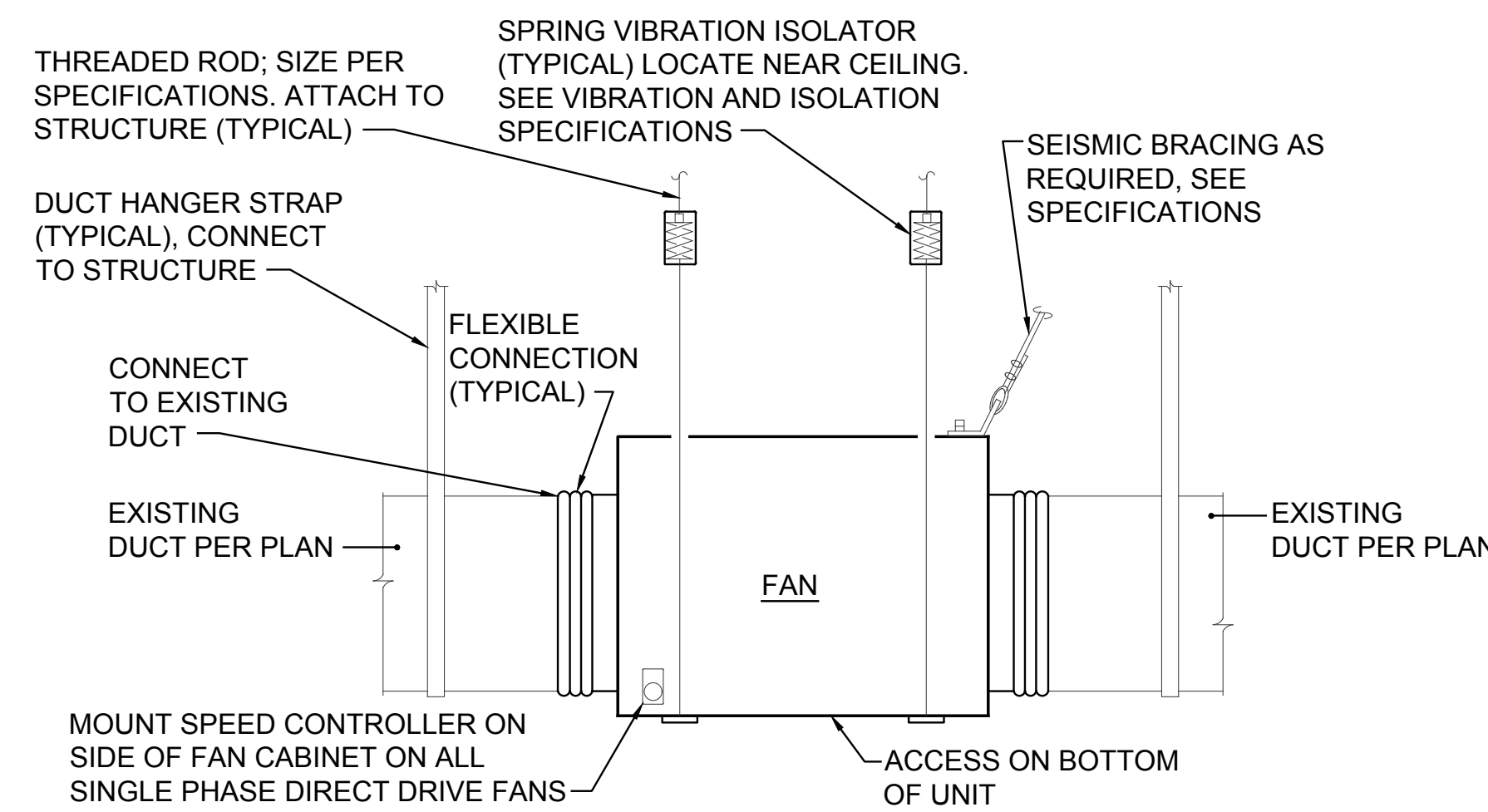
UNIT NO	MANUFACTURER	MODEL	AREA SERVED	TYPE	PERFORMANCE				POWER CONNECTION			INTERLOCK WITH	STARTER BY E.C.	DISCONNECT BY E.C.	WEIGHT (POUNDS)	NOTES
					CFM	TSP (IN)	RPM	SONES	HP	VOLT/PH	FLA					
EF-5	COOK	210SQN-HP	BUILDING EXHAUST	INLINE	3705	1.5	1309	15.5	2	208/3	7.5	MOTORIZED DAMPER	✓	✓	339	1
SF-6	COOK	210SQN-B	BUILDING SUPPLY	INLINE	4495	1.5	1173	16.6	3	208/3	10.6	MOTORIZED DAMPER	✓	✓	339	1

1. EXHAUST OUTLETS OR SYSTEM SHALL BE EQUIPPED WITH A MOTORIZED DAMPER THAT SHALL CLOSE AUTOMATICALLY UPON UNIT SHUTDOWN OR LOSS OF POWER IN ACCORDANCE WITH WSEC C403.7.8.4.

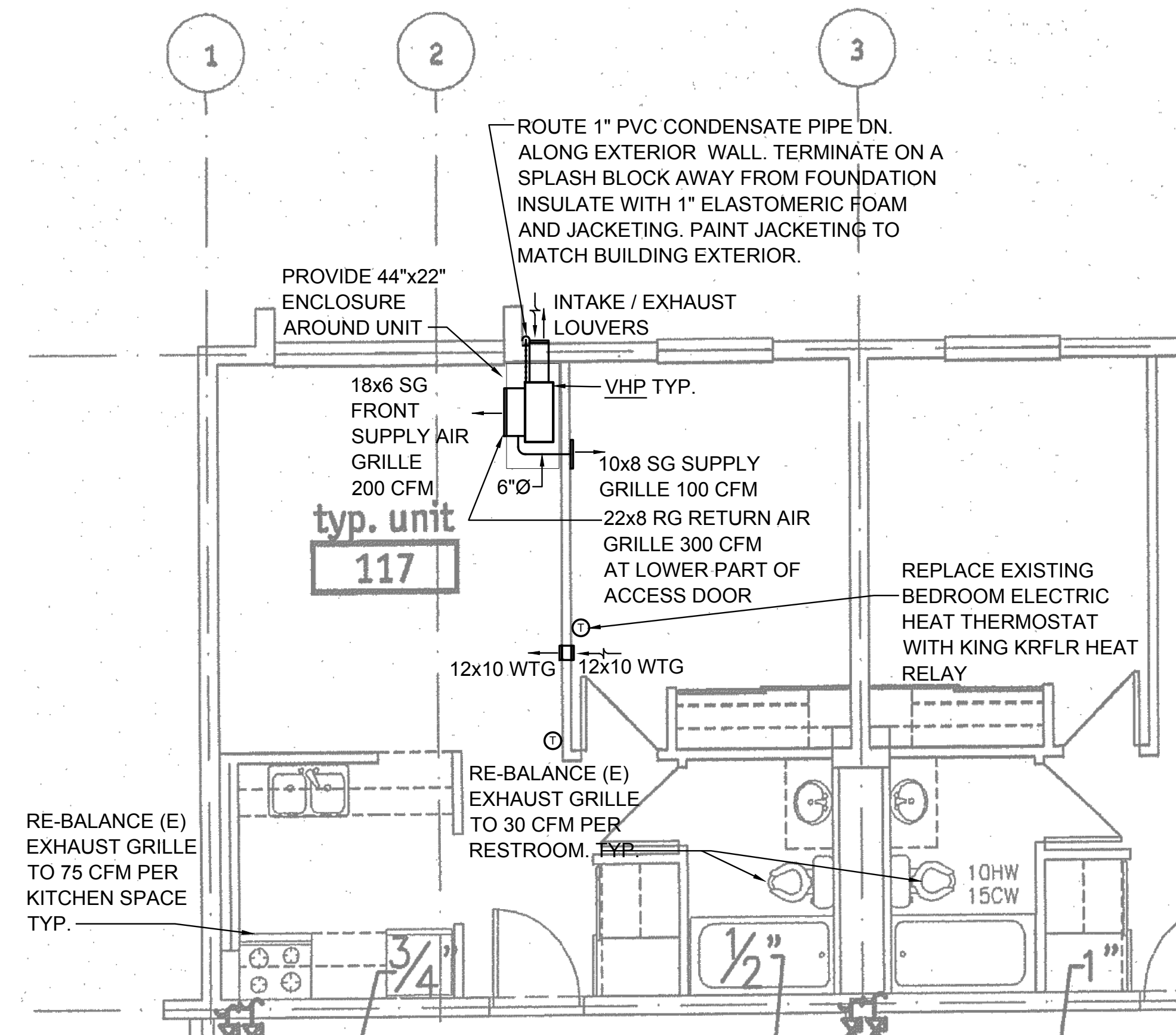
PUMP SCHEDULE

UNIT NO	MANUFACTURER	MODEL	LOCATION	AREA SERVED	MOTOR		HEAD (FT)	FLOW (GPM)	ELECTRICAL		STARTER BY E.C.	DISCONNECT BY E.C.	WEIGHT (POUNDS)	NOTES
					HP	RPM			FLA	VOLT/PH				
CP-4	ARMSTRONG	1205-000.7	RECOVERY COILS	ATTIC	3/4	2426	20	43.5	3/4	208/3	✓	✓	62	1,2

1. E.C. TO CONNECT AQUASTAT, AQUASTAT SET POINT IS 100°F  
 2. M.C. TO PROVIDE AND INSTALL A MOTOR RATED RELAY FOR CONTROLS INTERLOCK.



1 IN-LINE FAN INSTALLATION DETAIL  
 SCALE: 1/4" = 1'-0"



2 TYPICAL ENLARGED FLOOR PLAN  
 SCALE: 1/4" = 1'-0"

PROVIDE WITH GWX GATEWAY FOR 3RD PARTY THERMOSTAT, PROVIDE WITH KING ELECTRIC MODEL #KRFR HEAT PUMP RELAY

EXISTING EXTERIOR WALL

DUCT PLENUM TO LIVING ROOM SUPPLY GRILLE

SUPPLY GRILLE LASER CUT INTO ACCESS DOOR

UNIT CABINET, SEE THERMADUCT DRAWINGS ON SHEET M102 FOR SIZE.

ACCESS PANEL TO PROVIDE ADEQUATE CLEARANCE TO THE ENTIRE FRONT OF THE UNIT FOR SERVICING.

8"Ø CONDENSER + AIR INTAKE AND EXHAUST VENT TO LOUVER ON EXTERIOR WALL

VERTICAL HEAT PUMP SEE SCHEDULE FOR UNIT DIMENSION INSTALL PER MANUFACTURE RECOMMENDATION

RETURN GRILLE LASER CUT INTO ACCESS DOOR

10x8 SUPPLY GRILLE

SUPPLY DUCT TO BED ROOM SUPPLY GRILLE

SUPPLY DUCT CONNECT TO SIDE OF SUPPLY PLENUM

12x10 WALL TRANSFER GRILLES

EXISTING WALL

FINISHED FLOOR

BED ROOM

LIVING ROOM

GENERAL NOTES

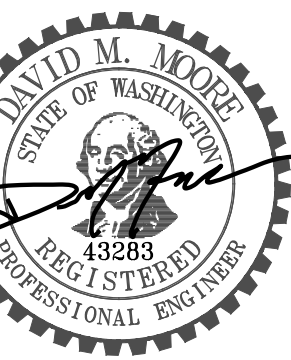
- X-RAY ALL PENETRATIONS PRIOR TO CORE DRILLING THE HOLES.
- DO NOT CUT EXISTING REINFORCEMENT.
- ALL DRILLING AND CUTTING MUST BE AT LEAST 4" AWAY FROM REINFORCEMENT.

3 TYPICAL VERTICAL HEAT PUMP / CABINET DETAIL  
 SCALE: NONE

AIR TERMINAL SCHEDULE	
SYMBOL	AIR TERMINAL - SIZES AS NOTED ON PLANS
SG	SUPPLY GRILLE: TITUS MODEL 300FS FOR INSTALLATION ON EXPOSED DUCTWORK OR WALL, 3/4" BLADE SPACING, DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES, FRONT BLADES PARALLEL TO SHORT DIMENSION. INCLUDE OPPOSED BLADE VOLUME DAMPER. MANUFACTURER'S STANDARD OFF-WHITE FINISH.
RG	RETURN GRILLE: TITUS 350RL STEEL GRILLE WITH 35°-DEFLECTION LOUVERS SPACED 3/4". MANUFACTURER'S STANDARD OFF-WHITE FINISH. INCLUDE OPPOSED-BLADE VOLUME DAMPER.
WTG	TRANSFER GRILLE: TITUS MODEL 50-F 1/2"x1/2"x1/2" EGGCRATE GRILLE FOR INSTALLATION IN T-BAR CEILINGS. PROVIDE 12x24 OR 24x24 PANS AS REQUIRED TO SUIT CEILING PANELS. MANUFACTURER'S STANDARD OFF-WHITE FINISH. PAINT DUCT MATTE BLACK BEHIND GRILLE.



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4-30-2026

PROJECT TITLE  
 BRITTANY PARK  
 KING COUNTY  
 HOUSING AUTHORITY  
 HVAC UPGRADES

PROJECT ADDRESS  
 18265 1st ave. south  
 Normandy Park,  
 WA. 98148

KEY PLAN

REVISION	DATE
3	
2	
1	

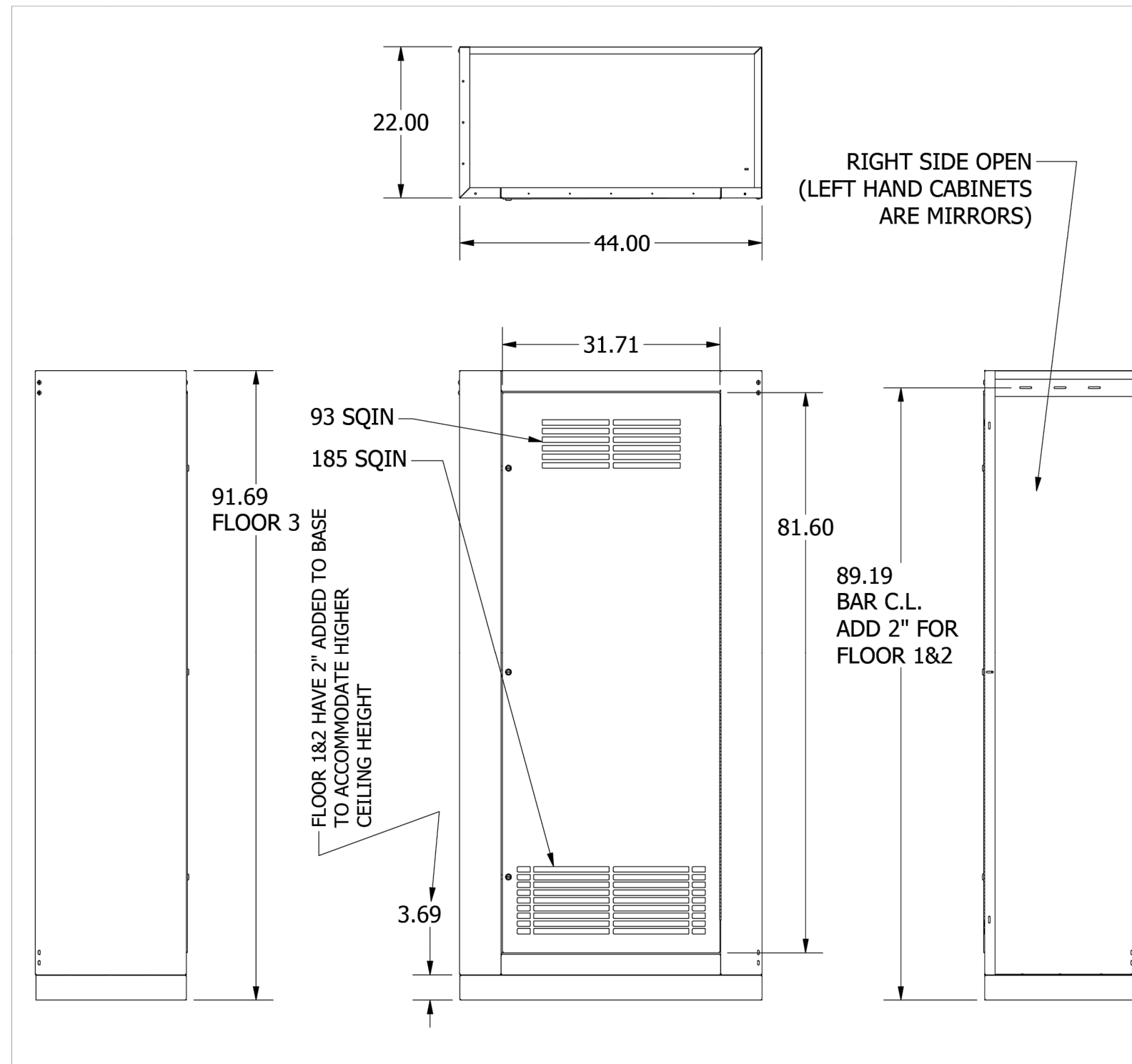
DWG ISSUE ISSUED 4-30-26  
 SHEET TITLE  
 MECHANICAL SCHEDULES, ENLARGED PLAN AND DETAILS

DRAWN HT  
 CHECKED DMM  
 TWE JOB # 250603  
 CLIENT JOB #  
 SHEET SCALE

SHEET NUMBER

M101

SHEET 2 OF 10



**thermaduct**  
HIGH EFFICIENCY AIR DISTRIBUTION

**PART DETAILS**  
Project Name  
**BRITTANY PARK**  
PART DESCRIPTION  
**RIGHT HAND CABINET**  
PART NUMBER REV. LEVEL  
CUSTOM CABINET \*  
MATERIAL/ ALLOY  
16 GA

**DRAWING INFORMATION**

PAGE NUMBER  
PAGE 1 OF 2  
DESIGN BY  
DWM  
DRAWING DATE  
2026.3.25  
SHEET PRINT SIZE  
8.5X11

SCALE  
1 / 20

**GENERAL**

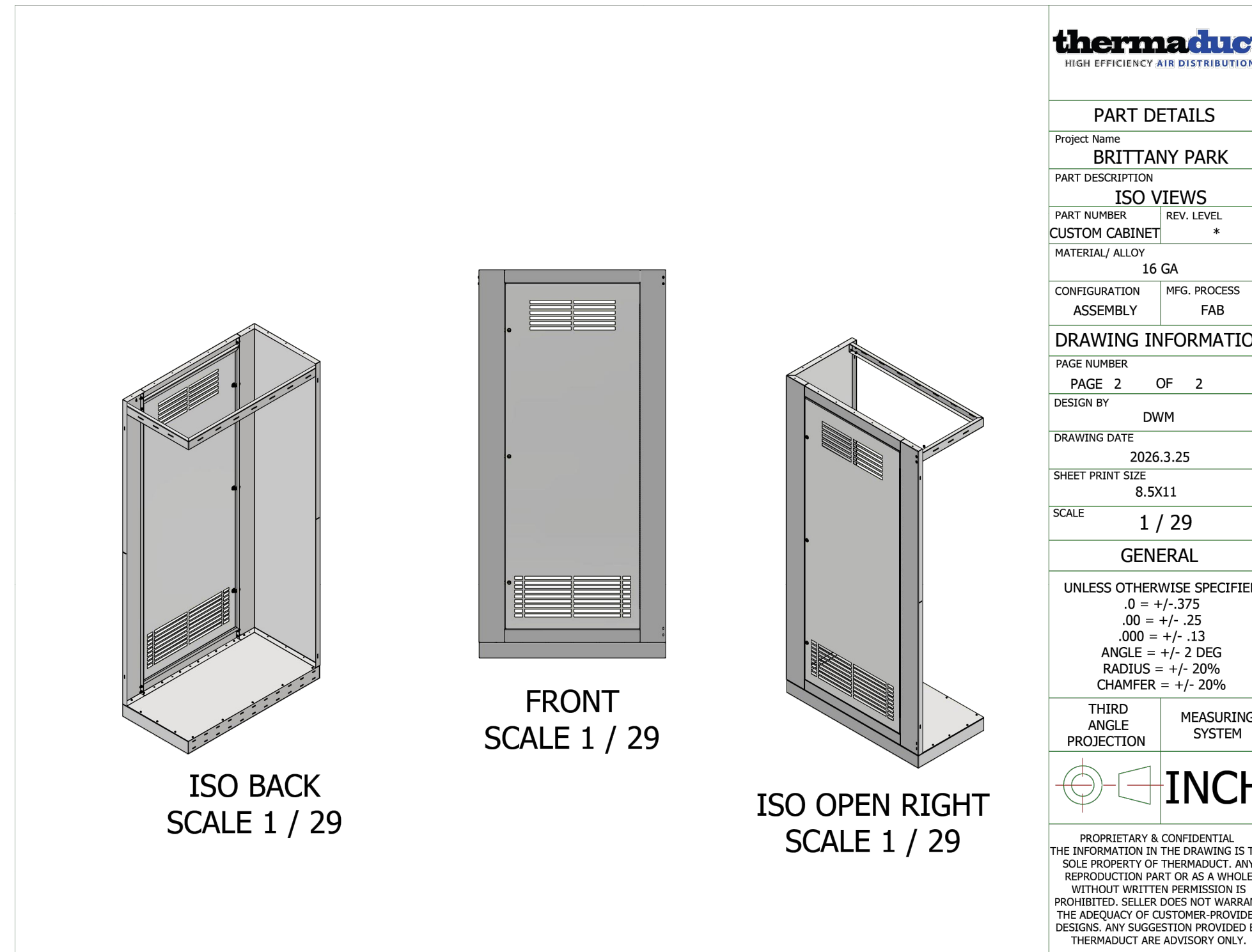
UNLESS OTHERWISE SPECIFIED  
0 = +/- .375  
.000 = +/- .25  
ANGLE = +/- 2 DEG  
RADIUS = +/- 20%  
CHAMFER = +/- 20%

THIRD ANGLE PROJECTION MEASURING SYSTEM

**INCH**

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**1** CABINET DETAIL  
M102 SCALE: NONE



**thermaduct**  
HIGH EFFICIENCY AIR DISTRIBUTION

**PART DETAILS**  
Project Name  
**BRITTANY PARK**  
PART DESCRIPTION  
**ISO VIEWS**  
PART NUMBER REV. LEVEL  
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**DRAWING INFORMATION**

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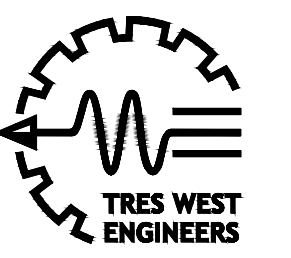
**GENERAL**

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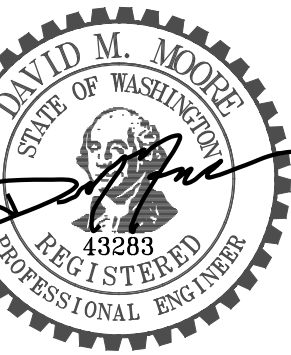
THIRD ANGLE PROJECTION MEASURING SYSTEM

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4-30-2026

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PROJECT ADDRESS  
**18265 1st ave. south  
Normandy Park,  
WA. 98148**

KEY PLAN

REVISION DATE

DWG ISSUE DATE  
ISSUED 4-30-26

SHEET TITLE

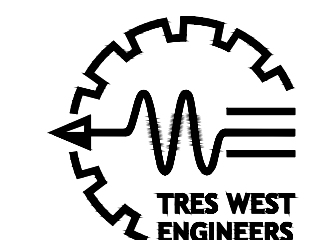
**MECHANICAL  
DETAILS**

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TWE JOB # 250603  
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SHEET SCALE

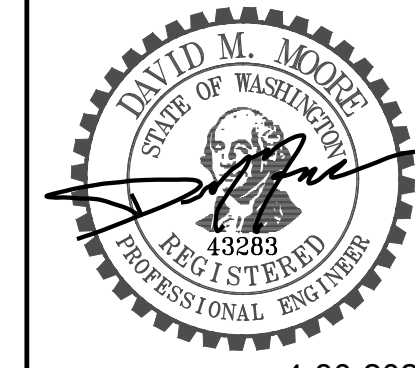
SHEET NUMBER

**M102**

SHEET 3 OF 10



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4-30-2026

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2	
1	

DWG ISSUE  
ISSUED 4-30-26

SHEET TITLE  
MECHANICAL  
FIRST  
FLOOR  
DEMOLITION  
PLAN

DRAWN HT  
CHECKED DMM  
TWE JOB # 250603  
CLIENT JOB #  
SHEET SCALE

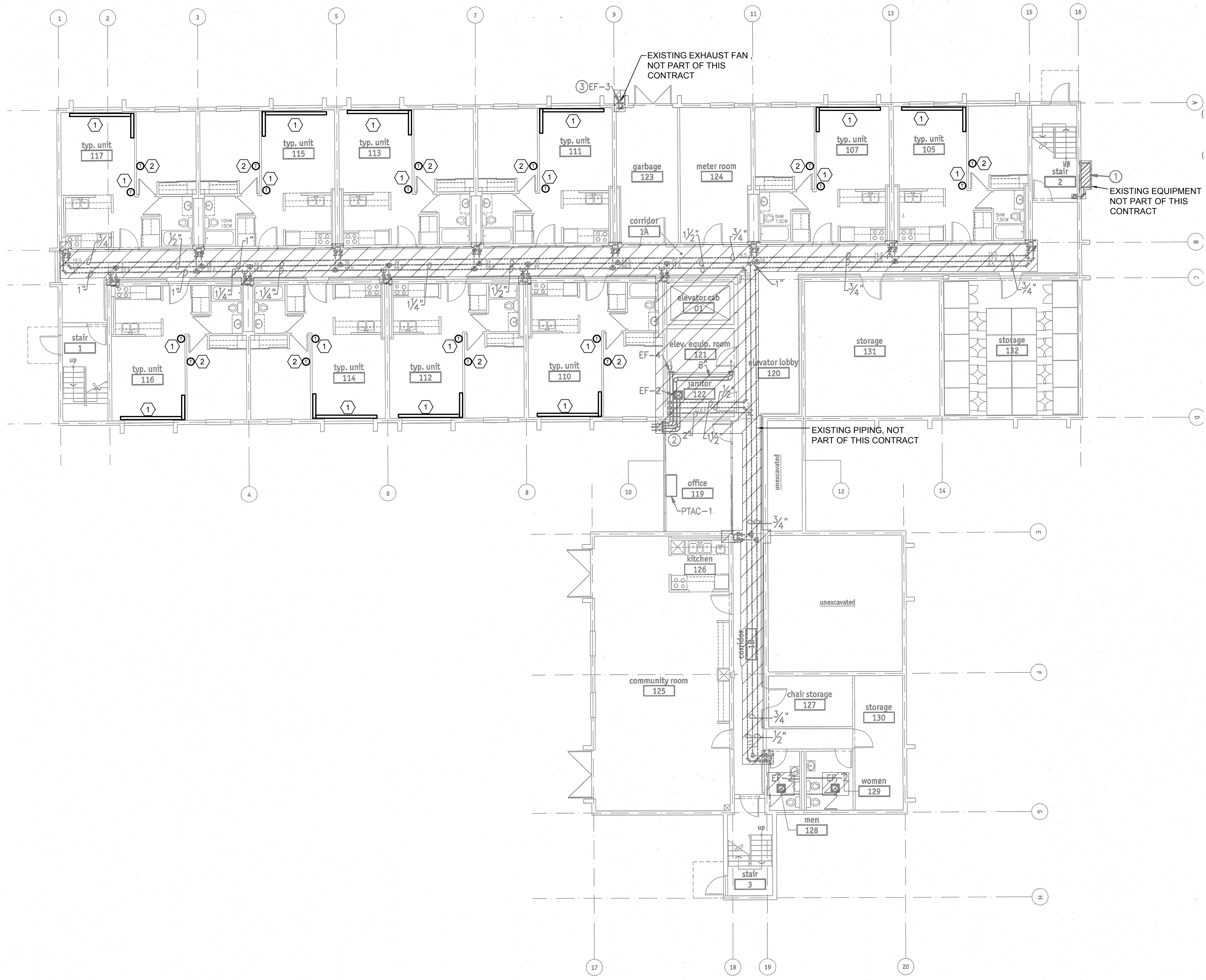
SHEET NUMBER

MD201

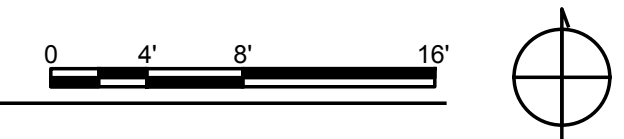
SHEET 4 OF 10

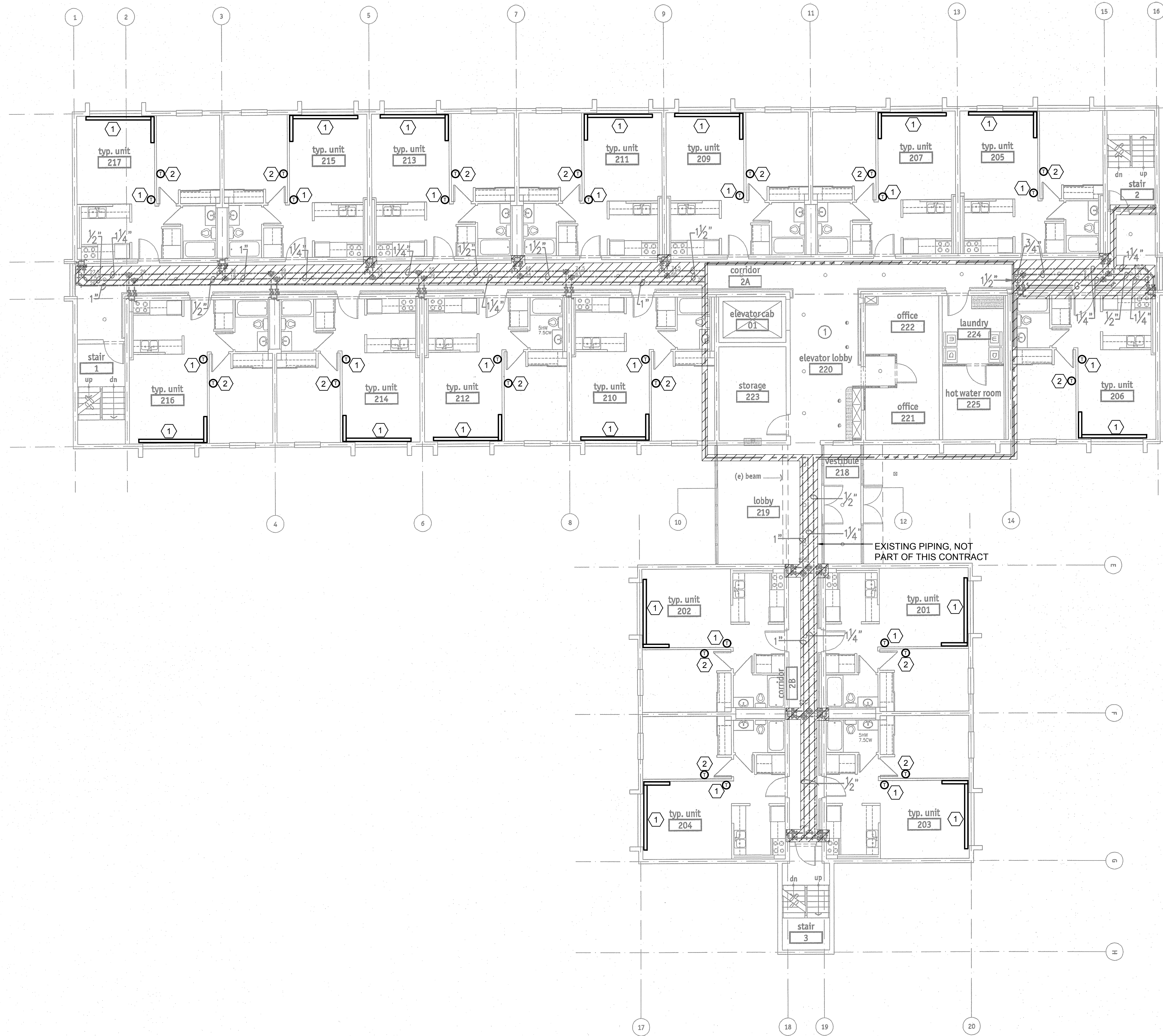
**PLAN NOTES**

- 1 EXISTING BASEBOARD HEATER AND IT'S ASSOCIATED T'STAT AND WIRING TO BE DEMOLISHED. PATCH WALL AS REQUIRED. CONTRACTOR TO VERIFY EXACT LOCATION OF HEATER AND T'STAT.
- 2 DEMO EXISTING BASEBOARD THERMOSTAT FOR BEDROOM AND REPLACE WITH KING MODEL KRFLR ELECTRIC HEAT CONTROLLER.

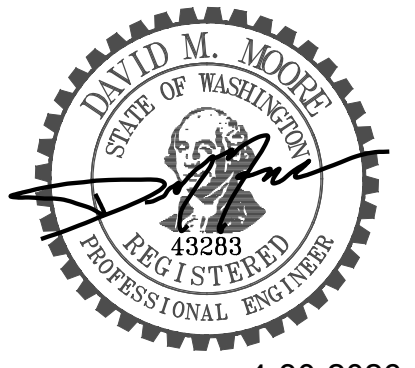


**1 MECHANICAL FIRST FLOOR DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"





- PLAN NOTES**
- ① EXISTING BASEBOARD HEATER AND IT'S ASSOCIATED T'STAT AND WIRING TO BE DEMOLISHED. PATCH WALL AS REQUIRED. CONTRACTOR TO VERIFY EXACT LOCATION OF HEATER AND T'STAT.
  - ② DEMO EXISTING BASEBOARD THERMOSTAT FOR BEDROOM AND REPLACE WITH KING MODEL KRFLR ELECTRIC HEAT CONTROLLER.



PROJECT TITLE  
 BRITTANY PARK  
 KING COUNTY  
 HOUSING AUTHORITY  
 HVAC UPGRADES

PROJECT ADDRESS  
 18265 1st ave. south  
 Normandy Park,  
 WA. 98148

KEY PLAN

REVISION	DATE
3	
2	
1	

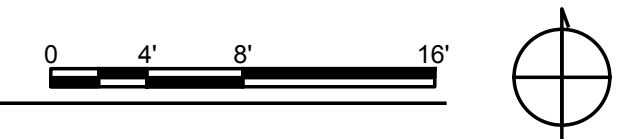
DWG ISSUE  
 ISSUED 4-30-26

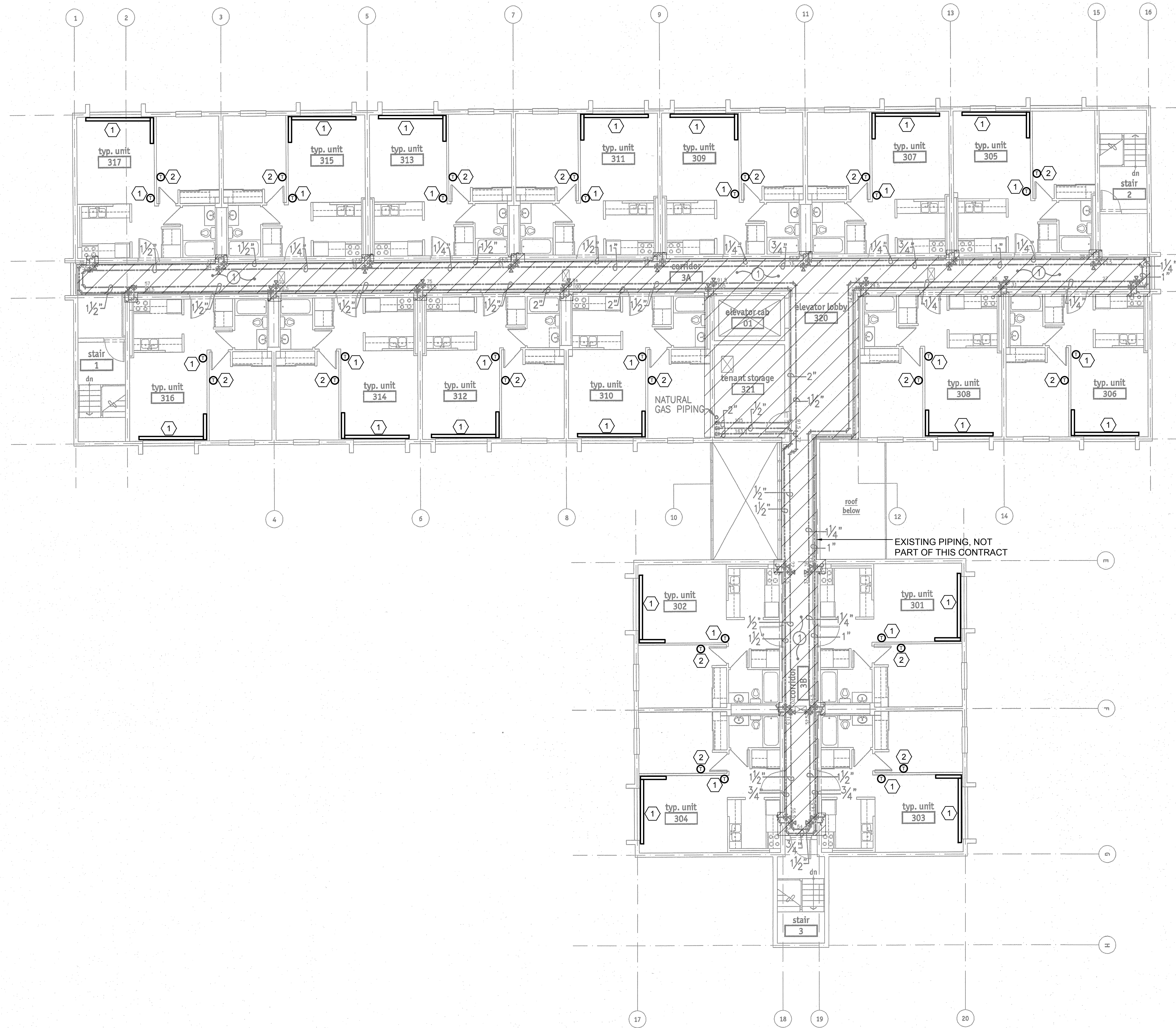
SHEET TITLE  
 MECHANICAL  
 SECOND  
 DEMOLITION  
 PLAN

DRAWN HT  
 CHECKED DMM  
 TWE JOB # 250603  
 CLIENT JOB #  
 SHEET SCALE

SHEET NUMBER  
 MD202  
 SHEET 5 OF 10

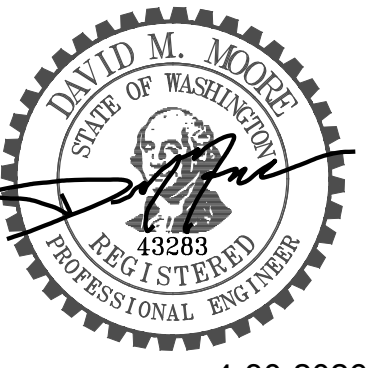
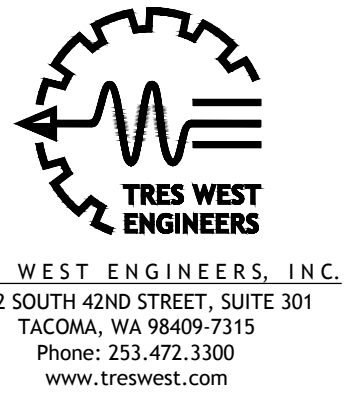
**1 MECHANICAL SECOND DEMOLITION PLAN**  
 SCALE: 1/8" = 1'-0"





**PLAN NOTES**

- 1 EXISTING BASEBOARD HEATER AND IT'S ASSOCIATED T'STAT AND WIRING TO BE DEMOLISHED. PATCH WALL AS REQUIRED. CONTRACTOR TO VERIFY EXACT LOCATION OF HEATER AND T'STAT.
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4-30-2026

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HOUSING AUTHORITY  
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WA. 98148

KEY PLAN

3	REVISION	DATE
2	DWG ISSUE	
1	ISSUED	4-30-26

SHEET TITLE  
MECHANICAL  
THIRD  
DEMOLITION  
PLAN

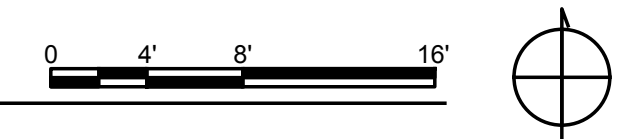
DRAWN HT  
CHECKED DMM  
TWE JOB # 250603  
CLIENT JOB #  
SHEET SCALE

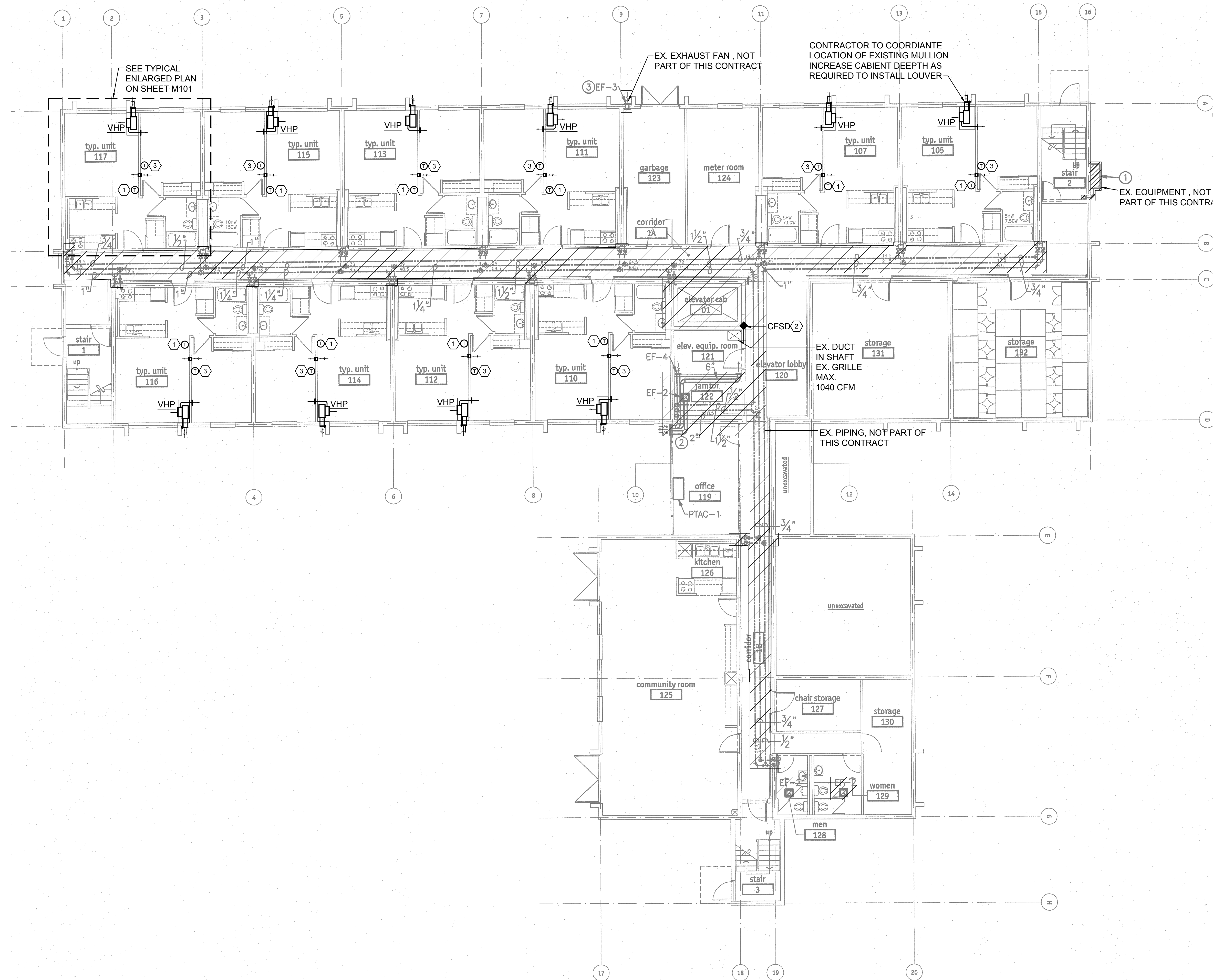
SHEET NUMBER

**MD203**

SHEET 6 OF 10

**1 MECHANICAL THIRD DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"





- GENERAL NOTES**
- X-RAY ALL PENETRATIONS PRIOR TO CORE DRILLING THE HOLES.
  - DO NOT CUT EXISTING REINFORCEMENT.
  - ALL DRILLING AND CUTTING MUST BE AT LEAST 4" AWAY FROM REINFORCEMENT.

- PLAN NOTES**
- REPLACE EX. T'STAT (CONTRACTOR TO VERIFY EXACT LOCATION) WITH MANUFACTURER PROVIDED T'STAT AND WIRE TO VHP.
  - PROVIDE NEW FIRE/SMOKE DAMPER (CFSD).
  - REPLACE BASEBOARD THERMOSTAT WITH KING MODEL KRFLR ELECTRIC HEAT CONTROLLER.



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KEY PLAN

REVISION	DATE
3	
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1	

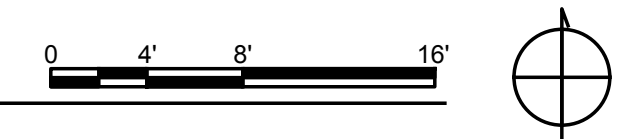
DWG ISSUE  
 ISSUED 4-30-26

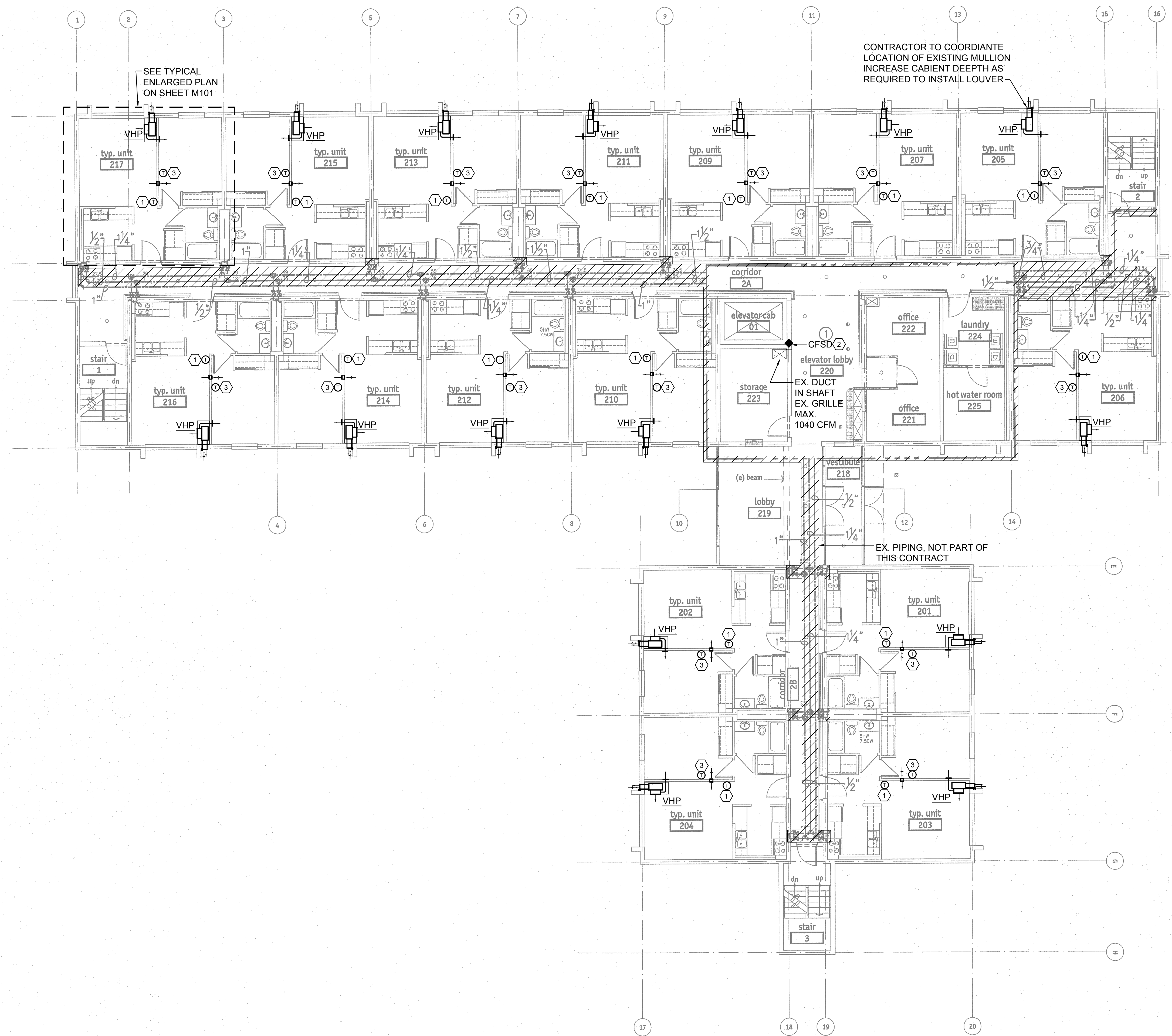
SHEET TITLE  
 MECHANICAL  
 FIRST  
 FLOOR PLAN

DRAWN HT  
 CHECKED DMM  
 TWE JOB # 250603  
 CLIENT JOB #  
 SHEET SCALE

SHEET NUMBER  
**M201**  
 SHEET 7 OF 10

**1 MECHANICAL FIRST FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"





**GENERAL NOTES**

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4-30-2026

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KING COUNTY  
HOUSING AUTHORITY  
HVAC UPGRADES

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WA. 98148

KEY PLAN

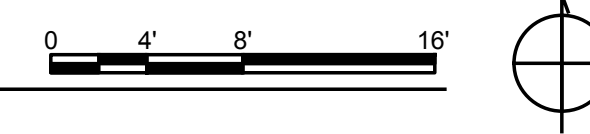
REVISION	DATE
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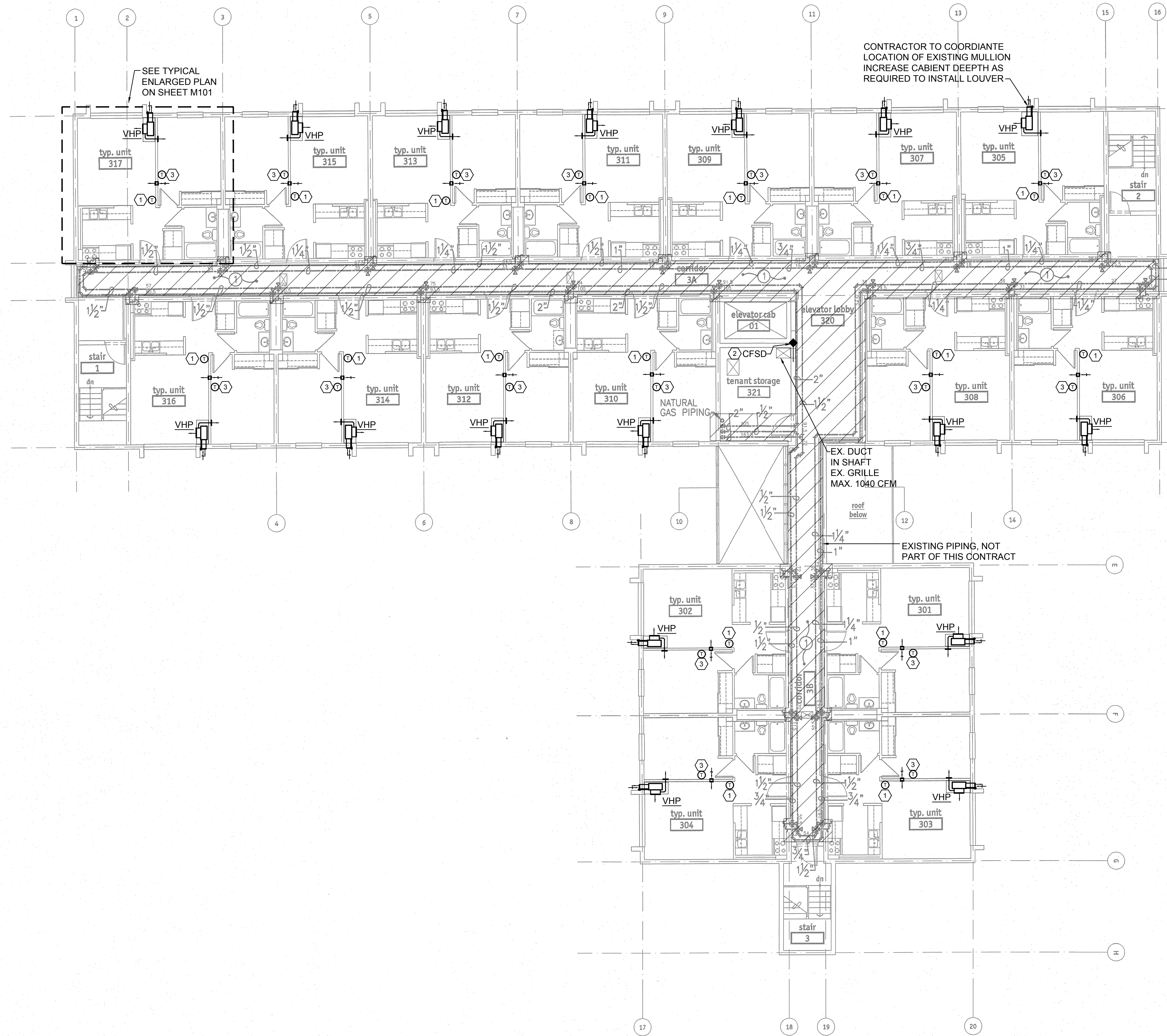
DWG ISSUE  
ISSUED 4-30-26

SHEET TITLE  
MECHANICAL  
SECOND  
FLOOR PLAN

DRAWN	HT
CHECKED	DMM
TWE JOB #	250603
CLIENT JOB #	
SHEET SCALE	
SHEET NUMBER	
<b>M202</b>	
SHEET 8 OF 10	

**1 MECHANICAL SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



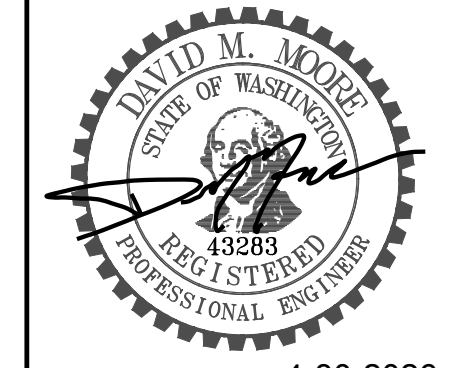
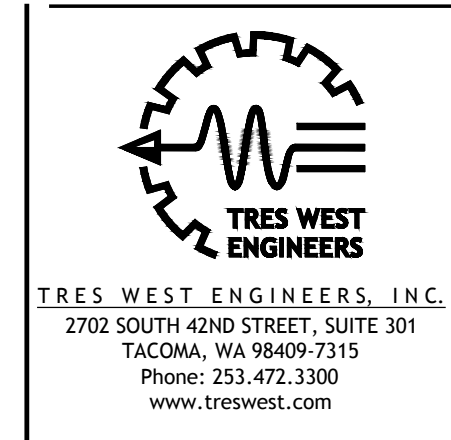


**GENERAL NOTES**

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DWG ISSUE  
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SHEET TITLE  
 MECHANICAL  
 THIRD  
 FLOOR PLAN

DRAWN HT  
 CHECKED DMM  
 TWE JOB # 250603  
 CLIENT JOB #  
 SHEET SCALE

SHEET NUMBER  
**M203**  
 SHEET 9 OF 10

**1 MECHANICAL THIRD FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

