

- 1. FOR ADDITIONAL EQUIPMENT INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS & EQUIPMENT SUBMITTALS.
- 2. MAINTAIN WALL ASSEMBLY FIRE RATING FOR INSTALLATION OF WALL HEATERS IN FIRE RATED WALLS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS.
- 3. ALL ELECTRIC HEATERS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, TYPICAL ALL
- 4. ALL DWELLING UNITS ARE VENTILATED BY NATURAL VENTILATION. OPERABLE WINDOW & DOOR AREAS HAVE BEEN SIZED TO PROVIDE A MINIMUM OF 4% OF THE FLOOR AREA.
- 5. COMMON SPACES AND HALLWAYS ARE VENTILATED BY PTHP UNIT(S) PROVIDING OUTSIDE AIR THAT MEETS THE CODE MINIMUM 0.06 CFM/SQFT REQUIRED BE CODE.
- 6. ALL EQUIPMENT AND DUCTWORK IS LOCATED BELOW RATED ASSEMBLY.
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KEY NOTES:

- $\overline{\langle A \rangle}$ 4"ø DRYER EXHAUST TO EXTERIOR-ROOF TERMINATION VIA SOFFIT(S) PROVIDED. INSULATE DUCTWORK IN ATTIC. DRYER DUCT MATERIAL SHALL HAVE A SMOOTH INTERIOR FINISH, BE CONSTRUCTED OF 26 GA SHEET METAL, SUPPORTED AT 4 FOOT INTERVALS, RIVET OR SCREW PENETRATIONS THROUGH THE DUCT WALL ARE NOT ACCEPTABLE. IDENTIFY TOTAL EQUIVALENT LENGTH OF DRYER VENT WITH PERMANENT LABEL WITHIN 6FT OF DRYER CONNECTION. CLEAN-OUT TO BE PROVIDED FOR ALL VERTICAL RISERS. SEE
- (B) PANASONIC WHISPERGREEN CEILING FAN WITH 4"Ø DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30CFM) AND INCREASE TO 80CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK, AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE 4 / EF / EF
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- G X" OUTSIDE AIR TO FAN COIL, PROVIDE WITH 2-POSITION DAMPER TO OPEN WHENEVER FAN
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- $\langle I \rangle$ 1.5KW WALL HEATER QMARK AWH4404F OR EQUAL. EQUIPMENT BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.
- J VERTICAL FIRE PENETRATION DETAIL, SEE $\frac{5}{M6.02}$



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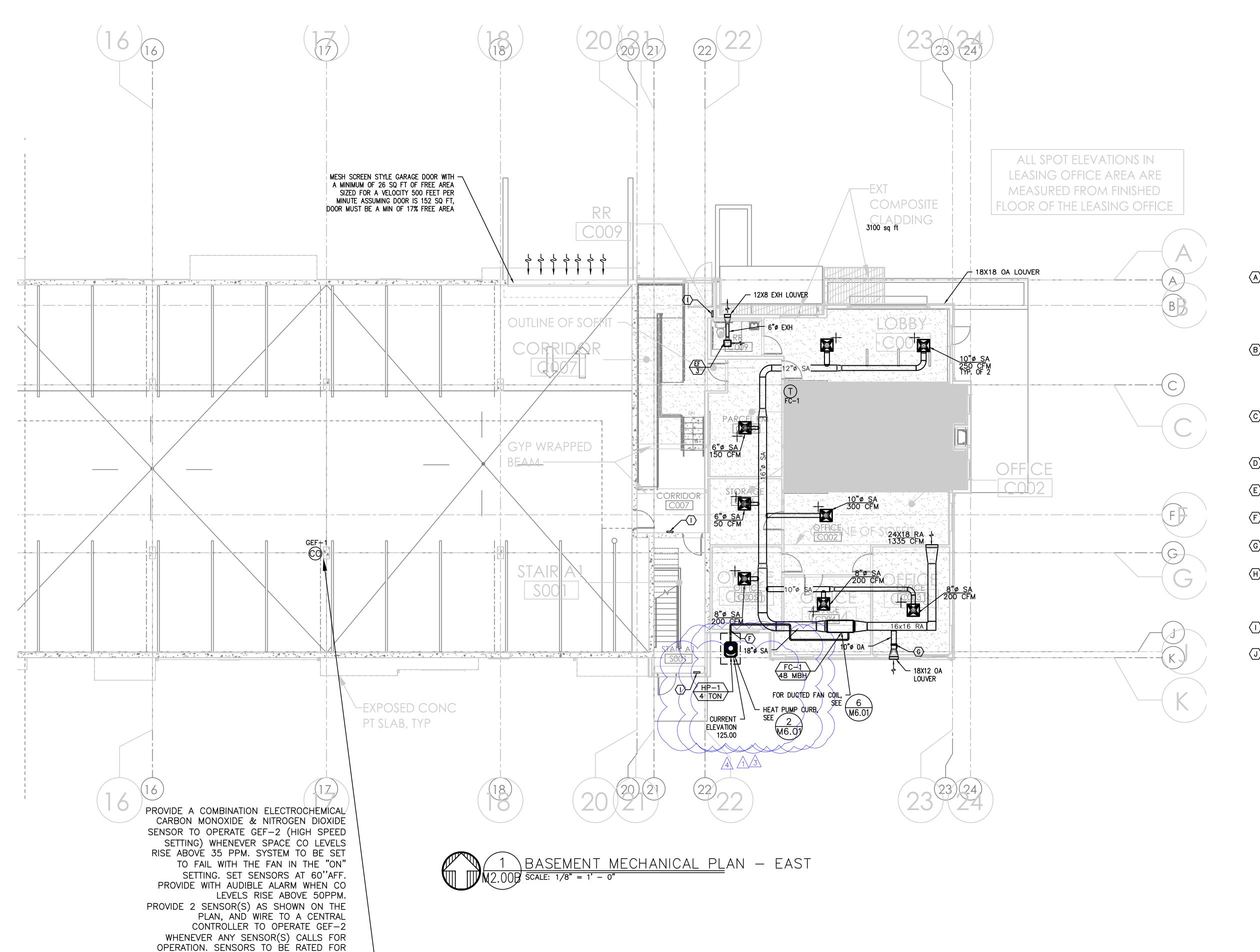
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SHEET

M2.00A



MIN 50' RADIUS. (TYPICAL) ———

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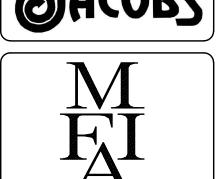


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	PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #3	PLAN REVIEW #4	PLAN REVIEW #5	
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	3.28.2022	4.18.2022	5.5.2022	6.7.2022	6.24.2022	
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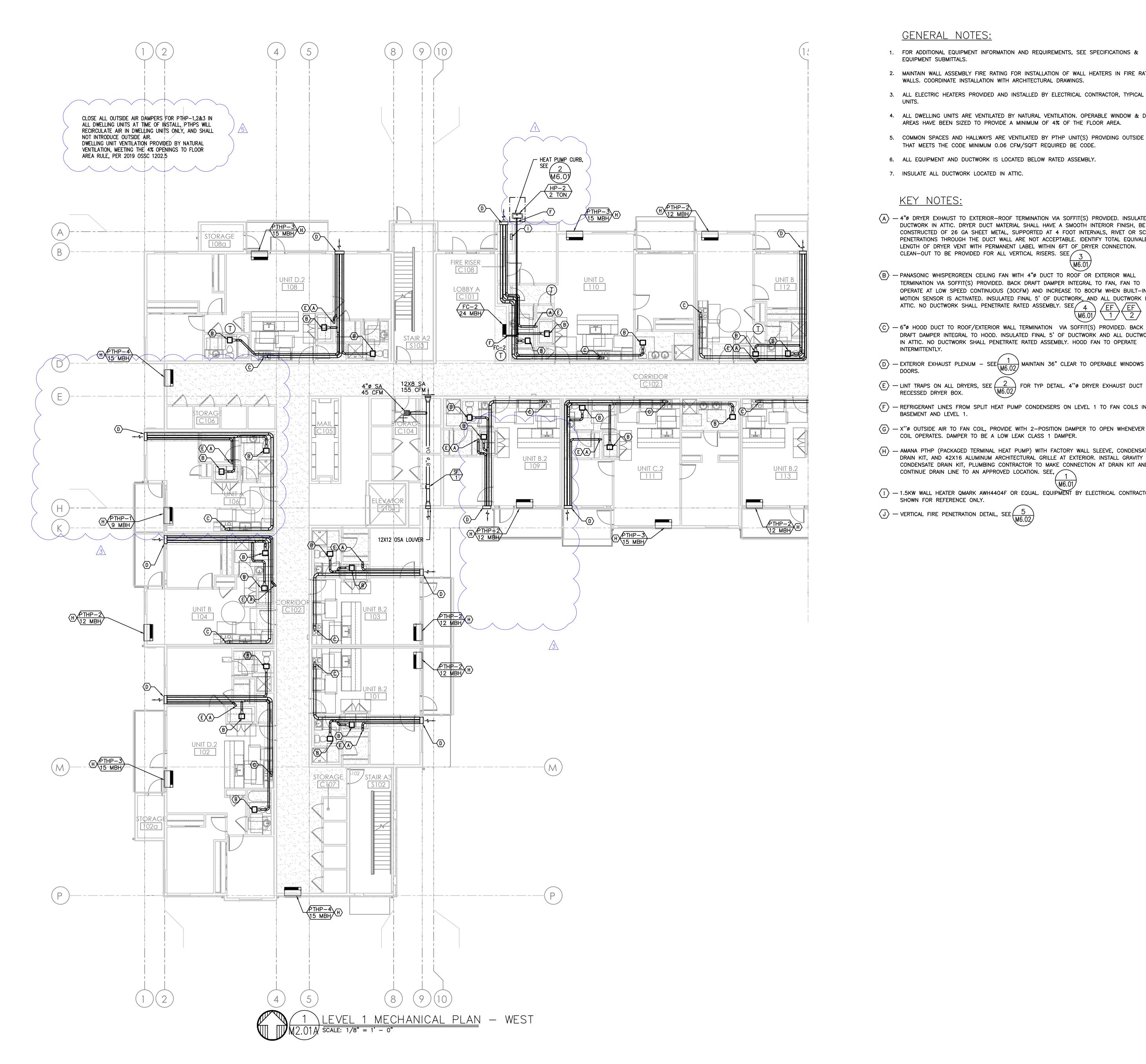
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CULET

M2.00B



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- $\langle I
 angle -$ 1.5kw wall heater qmark awh4404f or equal. Equipment by electrical contractor. Shown for reference only.



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1	12-11-20			
! o:	10081	\mathbb{V}	3.28.2022	PLAN REVIEW
By:	MGA	\lozenge	4.18.2022	PLAN REVIEW #2
By:	MRD	$\langle g \rangle$	5.5.2022	PLAN REVIEW #3
By:	MRD	4	6.7.2022	PLAN REVIEW #4
File:		8	6.24.2022	PLAN REVIEW #5

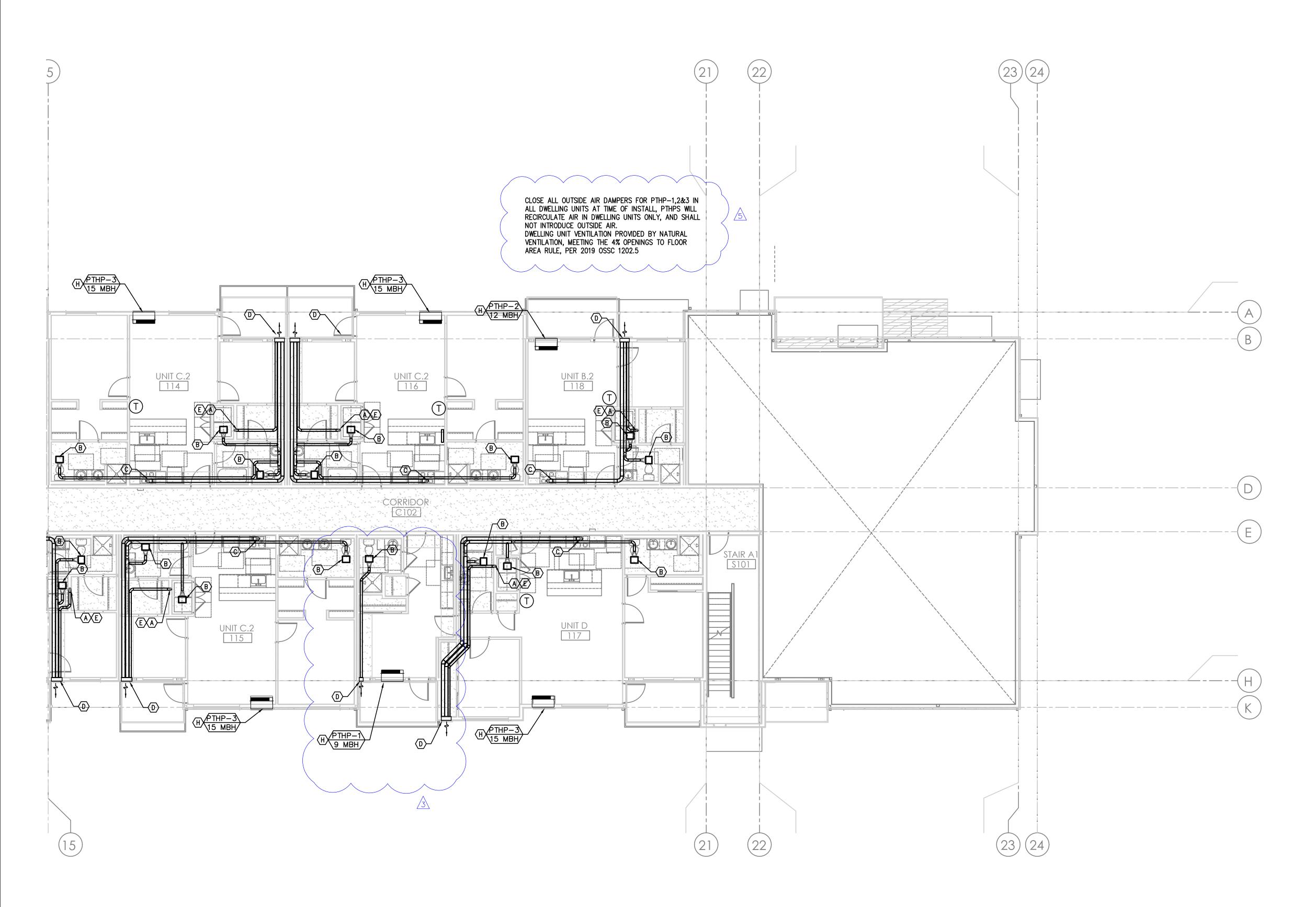
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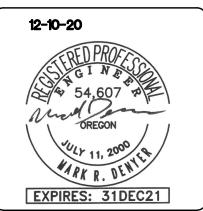
1 LEVEL 1 MECHANICAL PLAN - EAST W2.01B SCALE: 1/8" = 1' - 0"

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Date:	12-11-20		
Proj No:	10081	riangle 1.000000000000000000000000000000000000	PLAN REVIEW
Drawn By:	MGA	△ 4.18.2022	PLAN REVIEW #2
Chkd By:	MRD	$ rianglede{3}$ 5.5.2022	PLAN REVIEW #3
DSGN By:	MRD		PLAN REVIEW #4
Acad File:			PLAN REVIEW #5

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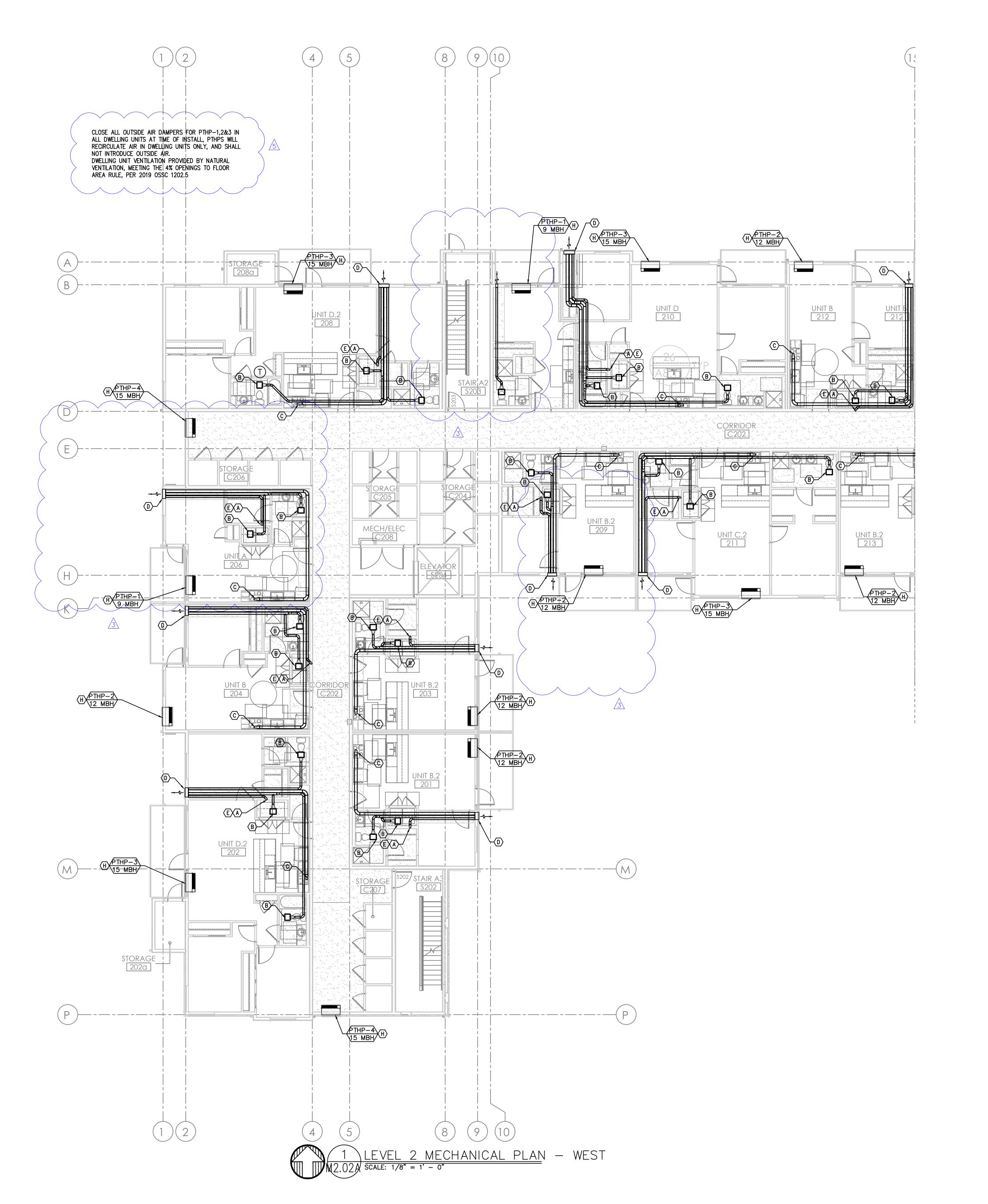
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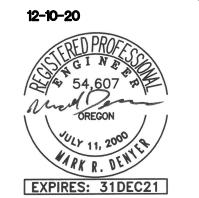
M2.01B



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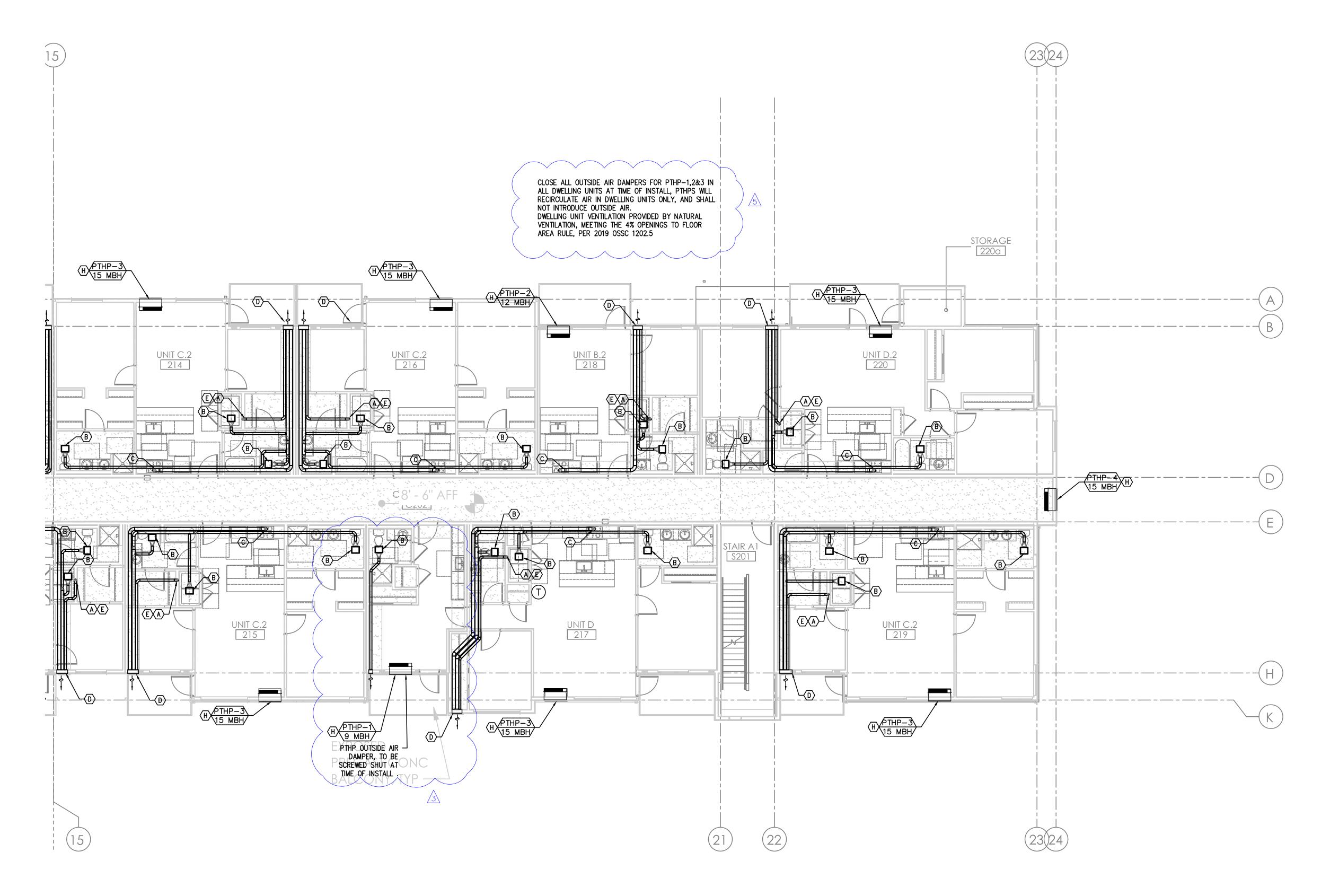
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PERMIT SET 12/10/20



Consulting Engineers 2007 S.E. Ash St. Portland, OR 97214 PHN: (503) 234-0548 FAX: (503) 234-0677 WWW.MFIA-ENG.COM

M2.02A



1 LEVEL 2 MECHANICAL PLAN — EAST M2.02B SCALE: 1/8" = 1' - 0"

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	PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #3	PLAN REVIEW #4	PLAN REVIEW #5	
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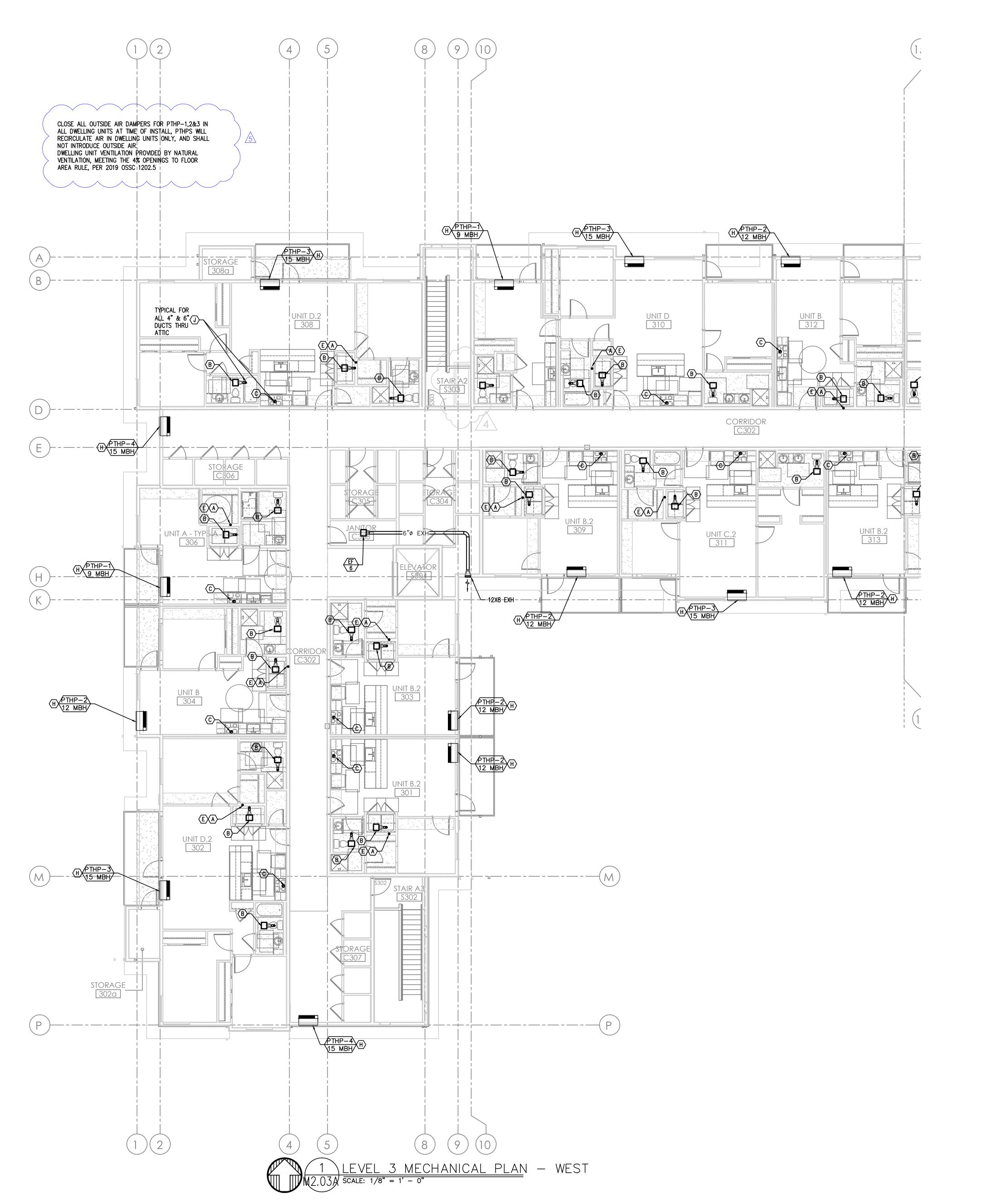
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PERMIT SET 12/10/20





M2.02B



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- 4. ALL DWELLING UNITS ARE VENTILATED BY NATURAL VENTILATION. OPERABLE WINDOW & DOOR AREAS HAVE BEEN SIZED TO PROVIDE A MINIMUM OF 4% OF THE FLOOR AREA.
- 5. COMMON SPACES AND HALLWAYS ARE VENTILATED BY PTHP UNIT(S) PROVIDING OUTSIDE AIR THAT MEETS THE CODE MINIMUM 0.06 CFM/SQFT REQUIRED BE CODE.
- 6. ALL EQUIPMENT AND DUCTWORK IS LOCATED BELOW RATED ASSEMBLY.
- 7. INSULATE ALL DUCTWORK LOCATED IN ATTIC.

KEY NOTES:

- $\langle A \rangle$ 4"ø DRYER EXHAUST TO EXTERIOR-ROOF TERMINATION VIA SOFFIT(S) PROVIDED. INSULATE DUCTWORK IN ATTIC. DRYER DUCT MATERIAL SHALL HAVE A SMOOTH INTERIOR FINISH, BE CONSTRUCTED OF 26 GA SHEET METAL, SUPPORTED AT 4 FOOT INTERVALS, RIVET OR SCREW PENETRATIONS THROUGH THE DUCT WALL ARE NOT ACCEPTABLE. IDENTIFY TOTAL EQUIVALENT LENGTH OF DRYER VENT WITH PERMANENT LABEL WITHIN 6FT OF DRYER CONNECTION. CLEAN-OUT TO BE PROVIDED FOR ALL VERTICAL RISERS. SEE
- B PANASONIC WHISPERGREEN CEILING FAN WITH 4" DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30CFM) AND INCREASE TO 80CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK, AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE 4 / EF / EF
- $\langle {
 m C}
 angle -$ 6"ø hood duct to roof/exterior wall termination via soffit(s) provided. Back DRAFT DAMPER INTEGRAL TO HOOD. INSULATED FINAL 5' OF DUCTWORK AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. HOOD FAN TO OPERATE INTERMITTENTLY.
- \bigcirc EXTERIOR EXHAUST PLENUM SEE \bigcirc MAINTAIN 36" CLEAR TO OPERABLE WINDOWS AND
- $\langle E \rangle$ lint traps on all dryers, see $\left(\frac{2}{\text{M6.02}}\right)$ for typ detail. 4"ø dryer exhaust duct with recessed dryer box. RECESSED DRYER BOX.
- F REFRIGERANT LINES FROM SPLIT HEAT PUMP CONDENSERS ON LEVEL 1 TO FAN COILS IN BASEMENT AND LEVEL 1.
- $\langle G \rangle$ X"ø OUTSIDE AIR TO FAN COIL, PROVIDE WITH 2-POSITION DAMPER TO OPEN WHENEVER FAN COIL OPERATES. DAMPER TO BE A LOW LEAK CLASS 1 DAMPER.
- (H) AMANA PTHP (PACKAGED TERMINAL HEAT PUMP) WITH FACTORY WALL SLEEVE, CONDENSATE DRAIN KIT, AND 42X16 ALUMINUM ARCHITECTURAL GRILLE AT EXTERIOR. INSTALL GRAVITY CONDENSATE DRAIN KIT, PLUMBING CONTRACTOR TO MAKE CONNECTION AT DRAIN KIT AND CONTINUE DRAIN LINE TO AN APPROVED LOCATION. SEE,
- $\langle 1 \rangle$ 1.5KW WALL HEATER QMARK AWH4404F OR EQUAL. EQUIPMENT BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.
- J VERTICAL FIRE PENETRATION DETAIL, SEE



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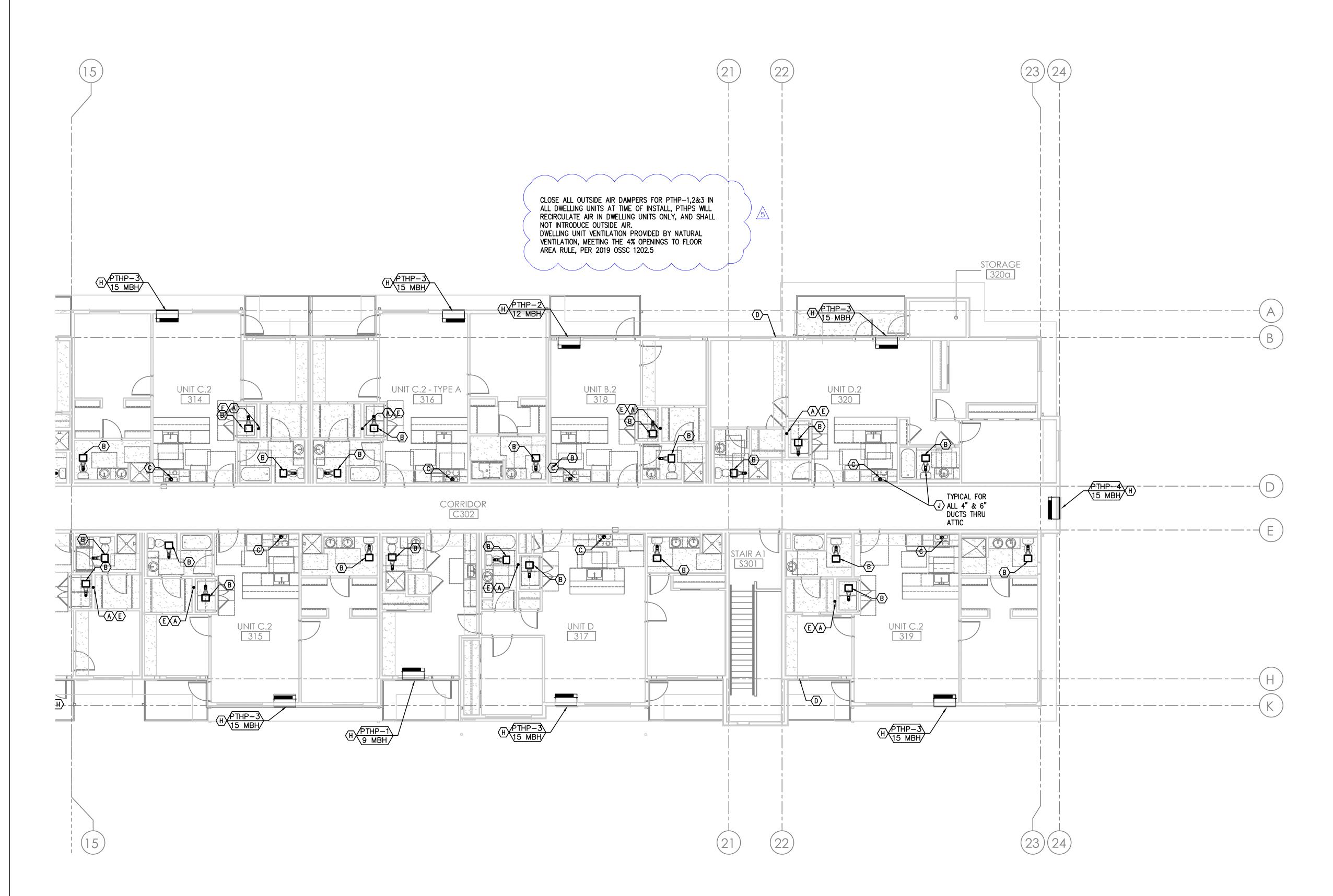
10N 664

PERMIT SET 12/10/20





M2.03A



LEVEL 3 MECHANICAL PLAN — EAST SCALE: 1/8" = 1' - 0"

GENERAL NOTES:

- 1. FOR ADDITIONAL EQUIPMENT INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS & EQUIPMENT SUBMITTALS.
- 2. MAINTAIN WALL ASSEMBLY FIRE RATING FOR INSTALLATION OF WALL HEATERS IN FIRE RATED WALLS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS.
- 3. ALL ELECTRIC HEATERS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, TYPICAL ALL
- 4. ALL DWELLING UNITS ARE VENTILATED BY NATURAL VENTILATION. OPERABLE WINDOW & DOOR AREAS HAVE BEEN SIZED TO PROVIDE A MINIMUM OF 4% OF THE FLOOR AREA.
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- 6. ALL EQUIPMENT AND DUCTWORK IS LOCATED BELOW RATED ASSEMBLY.
- 7. INSULATE ALL DUCTWORK LOCATED IN ATTIC.

KEY NOTES:

RECESSED DRYER BOX.

- A 4" DRYER EXHAUST TO EXTERIOR-ROOF TERMINATION VIA SOFFIT(S) PROVIDED. INSULATE DUCTWORK IN ATTIC. DRYER DUCT MATERIAL SHALL HAVE A SMOOTH INTERIOR FINISH, BE CONSTRUCTED OF 26 GA SHEET METAL, SUPPORTED AT 4 FOOT INTERVALS, RIVET OR SCREW PENETRATIONS THROUGH THE DUCT WALL ARE NOT ACCEPTABLE. IDENTIFY TOTAL EQUIVALENT LENGTH OF DRYER VENT WITH PERMANENT LABEL WITHIN 6FT OF DRYER CONNECTION. CLEAN-OUT TO BE PROVIDED FOR ALL VERTICAL RISERS. SEE
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- \bigcirc EXTERIOR EXHAUST PLENUM SEE $\frac{1}{M6.02}$ MAINTAIN 36" CLEAR TO OPERABLE WINDOWS AND $\langle E \rangle$ — LINT TRAPS ON ALL DRYERS, SEE $\left(\frac{2}{\text{M6.02}}\right)$ FOR TYP DETAIL. 4"ø DRYER EXHAUST DUCT WITH RECESSED DRYER BOX.
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- $\langle I \rangle$ 1.5kw wall heater qmark awh4404f or equal. Equipment by electrical contractor. Shown for reference only.
- \bigcirc J VERTICAL FIRE PENETRATION DETAIL, SEE \bigcirc M6.02



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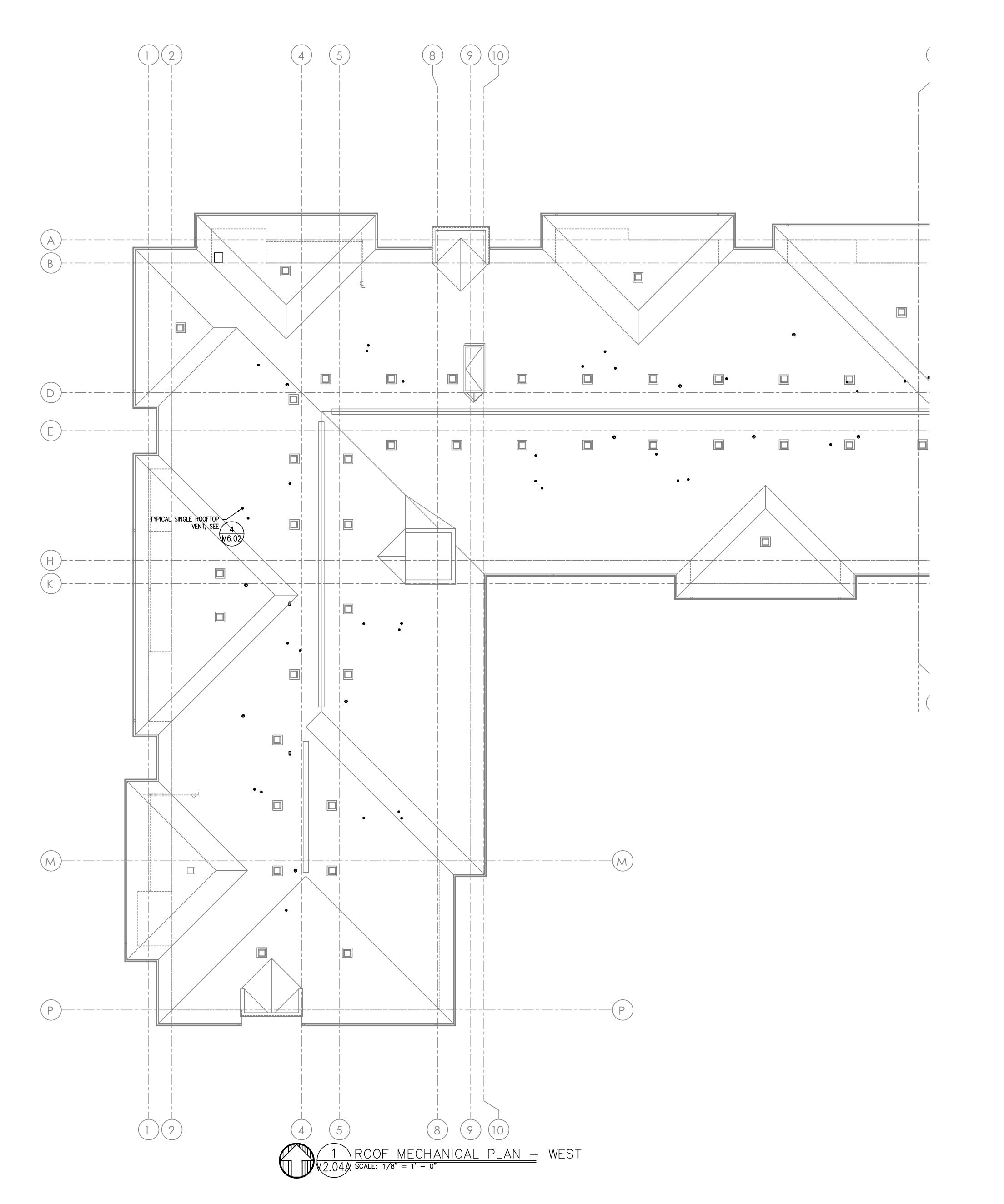
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PERMIT SET 12/10/20





M2.03B



<u>GENERAL NOTES:</u>

- 1. FOR ADDITIONAL EQUIPMENT INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS & EQUIPMENT SUBMITTALS.
- 2. MAINTAIN WALL ASSEMBLY FIRE RATING FOR INSTALLATION OF WALL HEATERS IN FIRE RATED WALLS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS.
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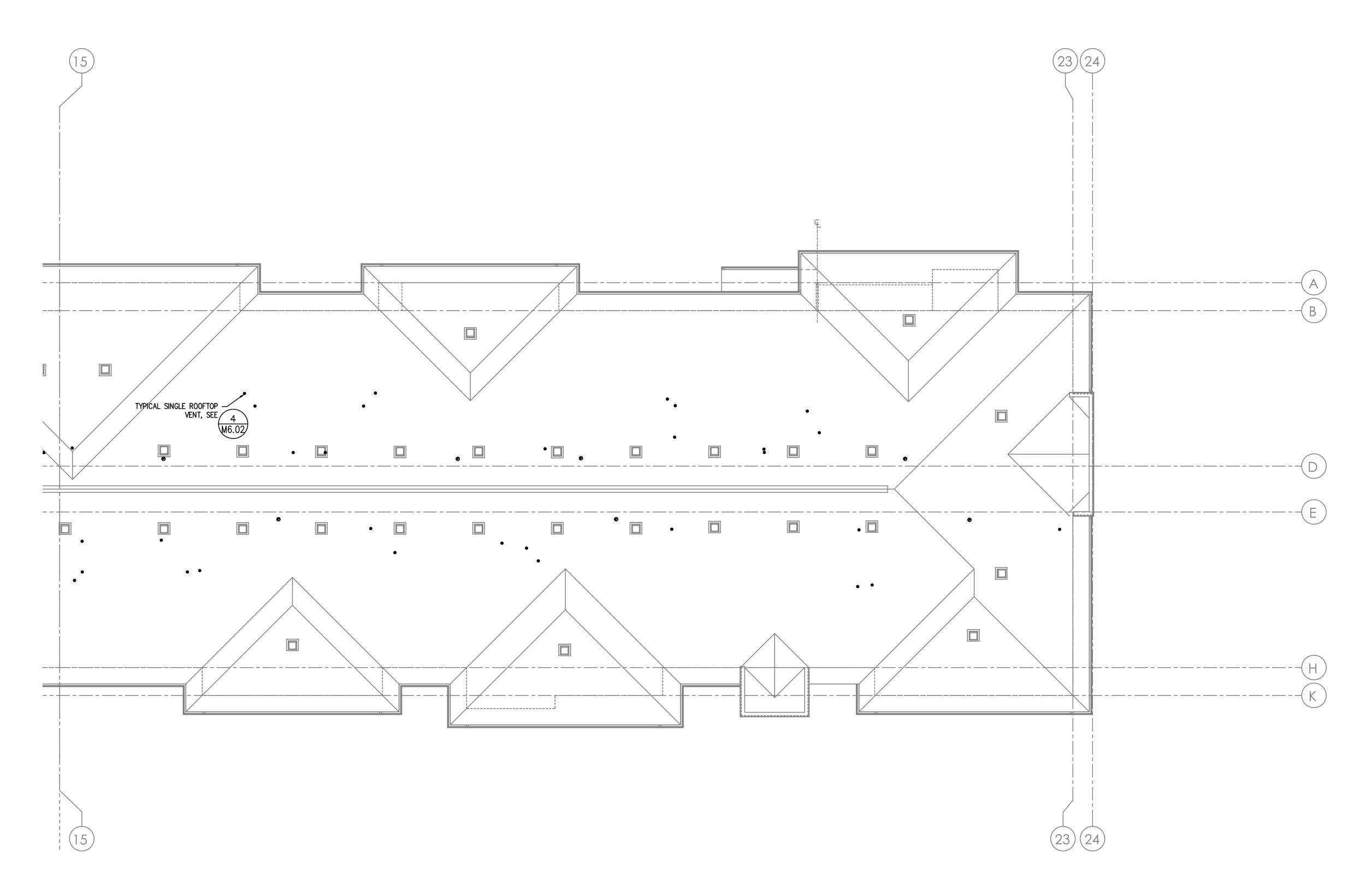
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DSGN By:	MRD	4	6.7.2022	PLAN REVI
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MON 664





M2.04A



1 ROOF MECHANICAL PLAN — EAST M2.04B SCALE: 1/8" = 1' - 0"

GENERAL NOTES:

- 1. FOR ADDITIONAL EQUIPMENT INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS & EQUIPMENT SUBMITTALS.
- 2. MAINTAIN WALL ASSEMBLY FIRE RATING FOR INSTALLATION OF WALL HEATERS IN FIRE RATED WALLS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS.
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- 4. ALL DWELLING UNITS ARE VENTILATED BY NATURAL VENTILATION. OPERABLE WINDOW & DOOR AREAS HAVE BEEN SIZED TO PROVIDE A MINIMUM OF 4% OF THE FLOOR AREA.
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- \bigcirc EXTERIOR EXHAUST PLENUM SEE \bigcirc MAINTAIN 36" CLEAR TO OPERABLE WINDOWS AND DOORS.
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- 1.5KW WALL HEATER QMARK AWH4404F OR EQUAL. EQUIPMENT BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.
- \sqrt{J} VERTICAL FIRE PENETRATION DETAIL, SEE $\frac{5}{M6.02}$

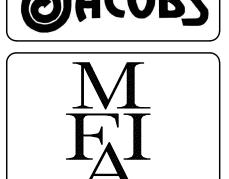


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G A PLAN - EAST

OMMONS ON THE 6645 SW NYBERG BUILDING A ROOF MECHANICAL PL

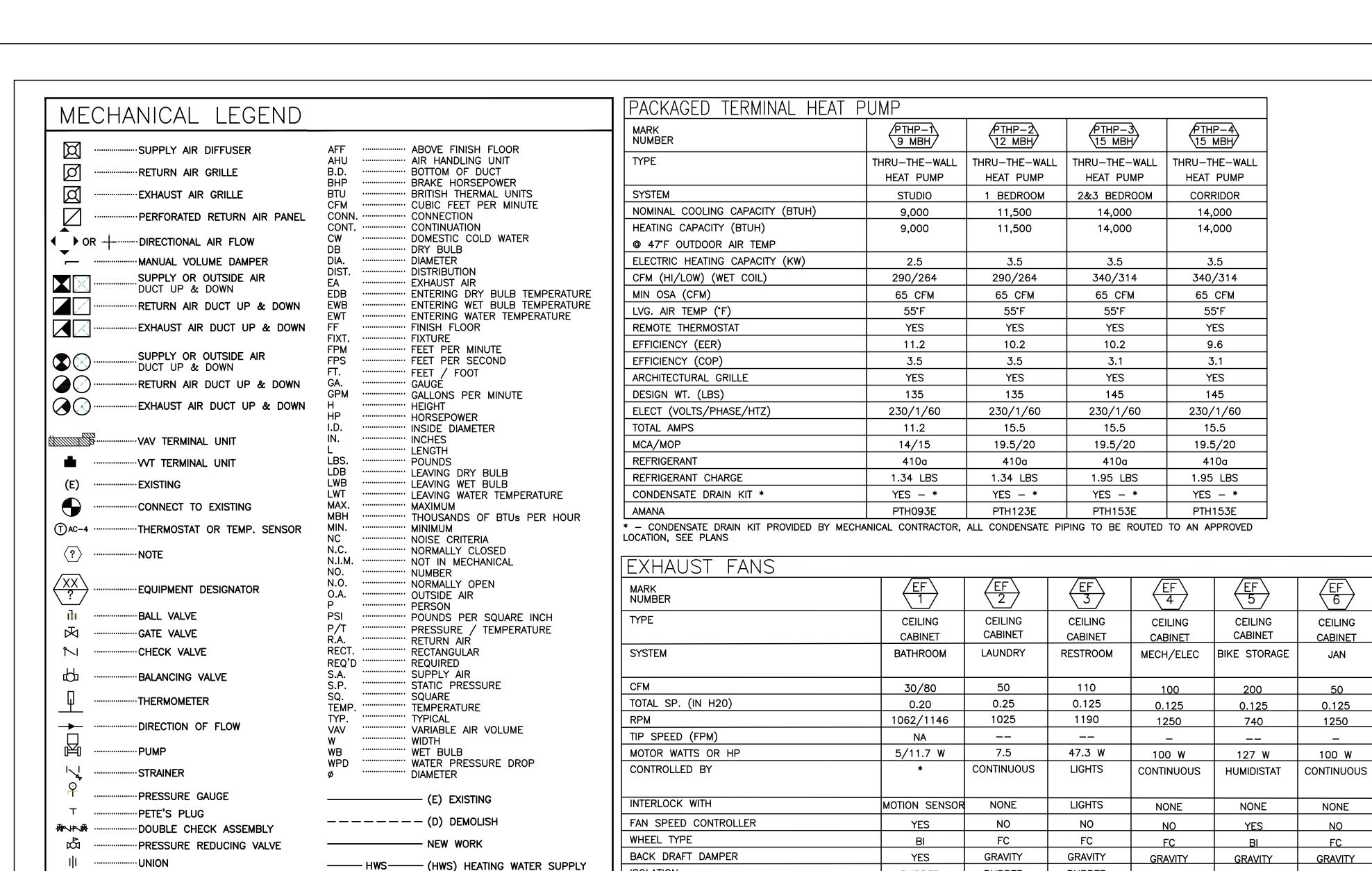
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SHFFT

M2.04B



DESIGN WEIGHT (LBS)

POWER (VOLTS/PHASE/HZ) - ***

MAX AMPS - ***

BASIS OF DESIGN:

MAX. SONES

—ARROWS INDICATE

- BRANCH DUCT

♣APPROVED EQUAL.

DAMPER

AIR TERMINALS

- MAIN DUCT

- SPIN-IN FITTING WHERE

APPLICABLE, GENFLEX

__MANUAL_VOLUME

SM-1DEL (WITH DAMPER

AND 45° EXTRACTOR) OR

DIRECTION OF AIR FLOW

-CEILING DIFFUSER/GRILLE

─FLEX DUCT - MAX 48"

MARK NUMBER	GEF X2	GEF 2
TYPE	CENTRIFIGAL JET FAN	SQ IN-LINE BELT DRIVE
SYSTEM	GARAGE CIRCULATION	GARAGE
CFM	3384	15,653
TOTAL SP. (IN H20)	NA	0.2
RPM	1650	2141
TIP SPEED (FPM)		13,450
MOTOR WATTS OR HP	1.5 KW	7.5 HP
CONTROLLED BY	CONTINUOUS	VFD
INTERLOCK WITH	NONE	CO/NO2
FAN SPEED CONTROLLER	YES	NO
WHEEL TYPE	BI	ВІ
BACK DRAFT DAMPER	NONE	NONE
ISOLATION	SPRING	SPRING
DESIGN WEIGHT (LBS)	60	350
MAX. SONES OR dBA	83 dBA	93 dBA
MAX AMPS - ***	6.13 AMPS	24.2 FLA
POWER (VOLTS/PHASE/HZ) - ***	230/60/3	230/60/3
BASIS OF DESIGN:	S&P JET FAN	GREENHECK
	IFFT -50N	TBI-FS-4L24-

ELECTRIC DUCT HE	EATER
MARK NUMBER	SF 1
SIZE (KW)	1.44 KW
DUCT SIZE	8"ø
STEPS	2
MCA	12.6
POWER (VOLTS/PHASE) *	120/1
BASIS OF DESIGN: HOTPOD	HP8
* — ELECTRICAL DATA LISTED FOR R ONLY, COORDINATE WITH ELECTRICAL BUILD CONTRACTOR FOR VOLTAGE AN	DESIGN

REQUIREMENTS

RUBBER

25

0.3/0.6

0.27

120/1/60

PANASONIC

* — FAN TO RUN AT LOW SPEED CONTINUOUSLY, AND INCREASE TO HIGH SPEED UPON ACTIVATION OF THE MOTION SENSOR.

FV-05-11VKS2 FV-0510VS1

FERRED SUBMITTALS - MECHANICAL	

HP CONDENSER 250 LBS

23

1.7

1.8

120/60/1

L200

RUBBER

25

3.0

0.40

120/60/1

BROAN

A110

RUBBER

25

1.5

1.3

120/60/1

BROAN

L100

RUBBER

25

.5

0.40

120/60/1

PANASONIC

DEFERRED SUBMITTALS SHOWING THE ANCHOR DETAILS AND CALCULATION WILL BE PROVIDED TO THE CITY OF PORTLAND 30 DAYS PRIOR TO THE START OF WORK AND SHALL INCLUDE THE FOLLOWING EQUIPMENT | EQUIPMENT | DESCRIPTION | WEIGHT | SUBMITTED | INSPECTOR CHECK | GARAGE EXHAUST 350 LBS

RUBBER

25

1.5

1.3

120/60/1

BROAN

L100

ELECTRICAL REQUIREMENTS

DWELLING UNIT A STUDIO = 520 1 BED = 565 2 BED = 950 3 BED = 1391)			2.2-2019
	Bedroon	15			
Floor Area, ft ²	1	2	3	4	5
<500	30	38	45	53	60
501 to 1000	45	53	60	68	75
1001 to 1500	60	68	75	83	90
1501 to 2000	75	83	90	98	105
2001 to 2500	90	98	105	113	120
2501 to 3000	105	113	120	128	135
		128	135	143	150
3001 to 3500	120	128			
	120	143	150	158	165
3001 to 3500 3501 to 4000 4001 to 4500			150 165	158 173	165 180

INDOOR UNITS -	*	
MARK NUMBER	FC-1 48 MBH	FC-2 24 MBH
SYSTEM	LOBBY/OFFICE/STORAGE	LEVEL 1 LOBBY
TYPE	DUCTED	WALL MOUNTED
EFFICIENCY	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT
NOMINAL COOLING CAPACITY	48,000 BTUH	24,000 BTUH
HEATING CAPACITY	48,000 BTUH/15KW ELEC	24,000 BTUH
TOTAL SUPPLY CFM	1600	800
OSA CFM	265	
EXTERNAL SP. ("H2O)	0.50	0.125
VOLTS/PHASE	208-1	208-1
MCA/MOP	53.8/60 & 22.7/25****	SEE OUTDOOR UNIT
WEIGHT	200	50
BASIS OF DESIGN	CARRIER FB4CNP048L00	CARRIER 40MAQB24——3
OUTDOOR UNIT	HP-1 4 TON	HP-2 2 TON

······2-WAY CONTROL VALVE

······3-WAY CONTROL VALVE

······MOTORIZED DAMPER

AIR DISTRIBUTION DETAILS

TURNING VANES IN ALL

SQUARE ELLS AND TEES

MITERED ELBOW

SIDEWALL DIFFUSER/GRILLE-

ROUND SA/RA DUCT-

(MIN. CROSS-SECTIONAL

AREA TO MATCH ROUND).

ROUND DUCT TRANSITION W/

SPIN-IN FITTING OFF TOP OF-

TRANSITION FROM-

MAIN TO ROUND

MANUAL VOLUME

DAMPER

TOP DUCT-

<s> SMOKE DETECTOR

DUCT CROSSING

ROUND DUCT W/ CONICAL FITTING ——

15°<A≤90° SMOOTH RADIUS ELBOW, W/O VANES

PROUND OR RECTANGULAR MAIN

ROUND DUCT TEE

·····FIRE / SMOKE DAMPER

·····LONGITUDINAL & LATERAL BRACING

RECT. TO RECT.

SPECIFICATION REFERENCE TRANSITIONS

SA = SUPPLY DIFFUSER RA = MATCHED RETURN

EXH = EXH GRILLE

NECK SIZE -

BALANCED AIRFLOW, CFM.

···FIRE DAMPER

····SMOKE DAMPER

······LATERAL BRACING

SEISMIC BRACING

-----LONGITUDINAL BRACING

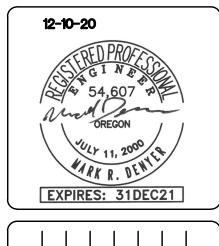
LINED DUCTWORK

* - PROVIDE ALL UNITS THAT CANNOT BE DRAINED BY GRAVITY WITH CONDENSATE PUMP, ROUTE ALL CONDENSATE LINES HIDDEN WITHIN STRUCTURE TO AN APPROVED LOCATION PROVIDED BY THE PROVIDE ELECTRIC HEAT MODEL #KFCEH310C15

OUTDOOR UNITS - SPLIT SYSTEM	M HEAT PUMP	
MARK NUMBER	HP-1 4 TON	HP-2 2 TON
SYSTEM	LOBBY/OFFICE/STORAGE	LEVEL 1 LOBBY
TYPE	1-PORT HEAT PUMP	1-PORT HEAT PUMP
NORMAL COOLING CAPACITY	47,000 BTUH	24,000 BTUH
NORMAL HEATING CAPACITY	46,000 BTUH	24000 BTUH
EFFICIENCY SEER/EER	14/11.5	20/12.5
EFFICIENCY HSPF/COP	8.2/3.64	10/3.22
REFRIGERANT	410 A	410 A
REFRIGERANT CHARGE	8.68 LBS	
MAX OPERATING TEMPS	125/-30	122/-4
MAX PIPING LENGTH	200 FT	98 FT
MAX PIPING HEIGHT	80 FT	65 FT
VOLTS-PHASE - **	208/230-3 PHASE	208/230-1 PHASE
MCA/MOP - **	14.5/25 AMPS	15/25 AMPS
COMPRESSOR	CONSTANT SPEED	VARIABLE SPEED
WEIGHT	250	150 LBS
BASIS OF DESIGN	CARRIER 25HCE448AP05	CARRIER 38MAQB243

** - ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DESIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS. ELECTRICAL CONTRACTOR RESPONSIBLE FOR SIZING ALL CONDUCTORS & OVERCURRENT PROTECTION. VERIFY WITH EQUIPMENT SUBMITTALS FOR EQUIPMENT ELECTRICAL REQUIREMENTS

	IR SCHEDU	JLE - CO	RRIDOR	S											
DOOM NUMBER	ADEA (00 ET)	COCUDANT	NUMBER OF	OUTOIDE AID	OUTOIDE AID	OUTOIDE AID		70NE	OLIDBIA	DDIMADV	DETUDNI	EVALATION	7	0 1 1	AID
ROOM NUMBER	AREA (SQ. FT.)		NUMBER OF	OUTSIDE AIR	OUTSIDE AIR	OUTSIDE AIR		ZONE	SUPPLY	PRIMARY			Zone	Corrected	AIR
AND NAME		LOAD				REQUIRED (CFM)		OSA	AIR (CFM)) AIR (CFM)		OSA	SYSTEMS
		(#/1000 SQ. FT.)		(CFM/P)	(CFM/SQ FT.)			(CFM)		FRACTION			Efficiency	CFM	
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Z p			Evz		
ORRIDORS	2995	0	0	0	0.06	180	0.8	225	1000	0.22	1000	0	0.91	246.79	PTHP-4
TORAGE	300	0	0	0	0.12	36	0.8	45	1000	0.22	1000	0	1.09	49.44	SF-1
TORAGE	300	U	U	U	0.12	30	0.6	40	1000	0.05	1000	U	1.09	49.44	21-1
OTAL	3295		0			216		270	2000		2000	0	0.91	296	
								Vou	Vps				Ev		
					CORRECTI	ED TOTAL OUT	DOOR	R AIR FL	OW RATE	296	CFM	Corrected	OSA Fraction	Zs =	0.15
/ENTILATION A	ID SCHEDI	F	1												
V	ur agern	JLE - FG	- 1												
LITTLATION															
			NUMBER OF	OUTSIDE AIR	OUTSIDE AIR	OUTSIDE AIR		ZONE	SUPPLY	PRIMARY	RETURN	EXHAUST	Zone	Corrected	AIR
ROOM NUMBER AND NAME	AREA (SQ. FT.)		NUMBER OF OCCUPANTS	OUTSIDE AIR		OUTSIDE AIR REQUIRED (CFM)		ZONE OSA	SUPPLY AIR (CFM)	PRIMARY OSA			Zone Ventilation	Corrected OSA	AIR SYSTEMS
ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT	OCCUPANTS			OUTSIDE AIR REQUIRED (CFM)		ZONE OSA (CFM)	SUPPLY AIR (CFM)			EXHAUST) AIR (CFM)			AIR SYSTEMS
ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT LOAD	OCCUPANTS	REQUIREMENT	REQUIREMENT		Ez	OSA		OSA			Ventilation	OSA	
ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)	OCCUPANTS Pz	REQUIREMENT (CFM/P)	REQUIREMENT (CFM/SQ FT.)	REQUIRED (CFM) Vbz		OSA (CFM) Voz	AIR (CFM)	OSA FRACTION Z p	AIR (CFM) AIR (CFM)	Ventilation Efficiency Evz	OSA CFM	SYSTEMS
ROOM NUMBER AND NAME DBBY C001	AREA (SQ. FT.) Az 994	OCCUPANT LOAD (#/1000 SQ. FT.)	OCCUPANTS Pz 0	REQUIREMENT (CFM/P) Rp	REQUIREMENT (CFM/SQ FT.) Ra 0.06	Vbz	0.8	OSA (CFM) Voz	Vpz 400	OSA FRACTION Zp 0.19	AIR (CFM) AIR (CFM) 0	Ventilation Efficiency Evz 1.01	OSA CFM 91.47	SYSTEMS
ROOM NUMBER AND NAME OBBY C001 ARCEL RM C008	AREA (SQ. FT.) Az 994 220	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0	Pz 0 0	REQUIREMENT (CFM/P) Rp 0 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12	Vbz 60 26	0.8	OSA (CFM) Voz 75 33	Vpz 400 100	OSA FRACTION Zp 0.19 0.33	935 0	0 0	Ventilation Efficiency Evz 1.01 0.87	OSA CFM 91.47 40.49	FC-1 FC-1
ROOM NUMBER AND NAME OBBY C001 ARCEL RM C008 TORAGE C006	AREA (SQ. FT.) Az 994 220 132	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0	OCCUPANTS Pz 0	REQUIREMENT (CFM/P) Rp 0 0 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12 0.12	Vbz 60 26 16	0.8 0.8 0.8	OSA (CFM) Voz 75 33 19	AIR (CFM) Vpz 400 100 50	OSA FRACTION Zp 0.19 0.33 0.38	935 0 0	0 0 0	Evz 1.01 0.87 0.82	OSA CFM 91.47 40.49 23.42	FC-1 FC-1 FC-1
ROOM NUMBER AND NAME OBBY C001 ARCEL RM C008 TORAGE C006 FFICE C002	AREA (SQ. FT.) Az 994 220 132 195	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0 0	Pz 0 0 0 1	REQUIREMENT (CFM/P) Rp 0 0 0 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12 0.12 0.06	REQUIRED (CFM) Vbz 60 26 16 17	0.8 0.8 0.8 0.8	OSA (CFM) Voz 75 33 19 21	AIR (CFM) Vpz 400 100 50 100	OSA FRACTION Zp 0.19 0.33 0.38 0.21	935 0 0	0 0 0 0	Evz 1.01 0.87 0.82 0.99	91.47 40.49 23.42 25.61	FC-1 FC-1 FC-1 FC-1
ROOM NUMBER AND NAME OBBY C001 ARCEL RM C008 TORAGE C006 OFFICE C002 OFFICE C003	AREA (SQ. FT.) Az 994 220 132 195 234	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0 0 5 5	Pz 0 0 0 1 2	REQUIREMENT (CFM/P) Rp 0 0 0 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12 0.12 0.06 0.06	REQUIRED (CFM) Vbz 60 26 16 17 24	0.8 0.8 0.8 0.8	OSA (CFM) Voz 75 33 19 21 30	AIR (CFM) Vpz 400 100 50 100 150	OSA FRACTION Zp 0.19 0.33 0.38 0.21 0.20	935 0 0 0	0 0 0 0 0	Efficiency Evz 1.01 0.87 0.82 0.99 1.00	91.47 40.49 23.42 25.61 36.87	FC-1 FC-1 FC-1 FC-1 FC-1
ROOM NUMBER AND NAME OBBY C001 ARCEL RM C008 TORAGE C006 FFICE C002 FFICE C003 FFICE C004	AREA (SQ. FT.) Az 994 220 132 195 234 193	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0 0 5 5 5	Pz 0 0 0 1 2 1	REQUIREMENT (CFM/P) Rp 0 0 0 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12 0.12 0.06 0.06 0.06	REQUIRED (CFM) Vbz 60 26 16 17 24 17	0.8 0.8 0.8 0.8 0.8	OSA (CFM) Voz 75 33 19 21 30 21	AIR (CFM) Vpz 400 100 50 100 150 150	OSA FRACTION Zp 0.19 0.33 0.38 0.21 0.20 0.14	935 0 0 0 0	0 0 0 0 0 0	Evz 1.01 0.87 0.82 0.99 1.00 1.06	91.47 40.49 23.42 25.61 36.87 25.43	FC-1 FC-1 FC-1 FC-1 FC-1 FC-1
ROOM NUMBER AND NAME OBBY C001 ARCEL RM C008 TORAGE C006 OFFICE C002 OFFICE C003 OFFICE C004	AREA (SQ. FT.) Az 994 220 132 195 234	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0 0 5 5	Pz 0 0 0 1 2	REQUIREMENT (CFM/P) Rp 0 0 0 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12 0.12 0.06 0.06	REQUIRED (CFM) Vbz 60 26 16 17 24	0.8 0.8 0.8 0.8	OSA (CFM) Voz 75 33 19 21 30	AIR (CFM) Vpz 400 100 50 100 150	OSA FRACTION Zp 0.19 0.33 0.38 0.21 0.20	935 0 0 0	0 0 0 0 0	Efficiency Evz 1.01 0.87 0.82 0.99 1.00	91.47 40.49 23.42 25.61 36.87	FC-1 FC-1 FC-1 FC-1 FC-1
ROOM NUMBER	AREA (SQ. FT.) Az 994 220 132 195 234 193	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0 0 5 5 5	Pz 0 0 0 1 2 1	REQUIREMENT (CFM/P) Rp 0 0 0 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12 0.12 0.06 0.06 0.06	REQUIRED (CFM) Vbz 60 26 16 17 24 17	0.8 0.8 0.8 0.8 0.8	OSA (CFM) Voz 75 33 19 21 30 21	AIR (CFM) Vpz 400 100 50 100 150 150	OSA FRACTION Zp 0.19 0.33 0.38 0.21 0.20 0.14	935 0 0 0 0	0 0 0 0 0 0	Evz 1.01 0.87 0.82 0.99 1.00 1.06	91.47 40.49 23.42 25.61 36.87 25.43	FC-1 FC-1 FC-1 FC-1 FC-1 FC-1
ROOM NUMBER AND NAME OBBY C001 PARCEL RM C008 STORAGE C006 OFFICE C002 OFFICE C003 OFFICE C004 OFFICE C005	AZ 994 220 132 195 234 193 158	OCCUPANT LOAD (#/1000 SQ. FT.) 0 0 0 5 5 5	Pz 0 0 0 1 2 1 1	REQUIREMENT (CFM/P) Rp 0 0 0 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.12 0.12 0.06 0.06 0.06	REQUIRED (CFM) Vbz 60 26 16 17 24 17 14	0.8 0.8 0.8 0.8 0.8	OSA (CFM) Voz 75 33 19 21 30 21 18	AIR (CFM) Vpz 400 100 50 100 150 150	OSA FRACTION Zp 0.19 0.33 0.38 0.21 0.20 0.14	935 0 0 0 0 0	0 0 0 0 0 0 0	Ventilation Efficiency Evz 1.01 0.87 0.82 0.99 1.00 1.06 1.08	91.47 40.49 23.42 25.61 36.87 25.43 22.21	FC-1 FC-1 FC-1 FC-1 FC-1 FC-1



		#2	#3	#4	#5	
	PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #3	PLAN REVIEW #4	PLAN REVIEW #5	
	PLAN	PLAN	PLAN	PLAN	PLAN	
	3.28.2022	4.18.2022	5.5.2022	6.7.2022	6.24.2022	
	\mathbb{V}	\lozenge	$\langle g \rangle$	\Diamond	\€	
12-11-20	10081	MGA	MRD	MRD		
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PLAN	6.24.2022	8		Acad File:
PLAN	6.7.2022	$\bigvee \!$	MRD	DSGN By:
PLAN	5.5.2022	$\langle g \rangle$	MRD	Chkd By:
PLAN	4.18.2022	\lozenge	MGA	Drawn By:
FLAN	2.20.20.5	717	10001	Proj No:

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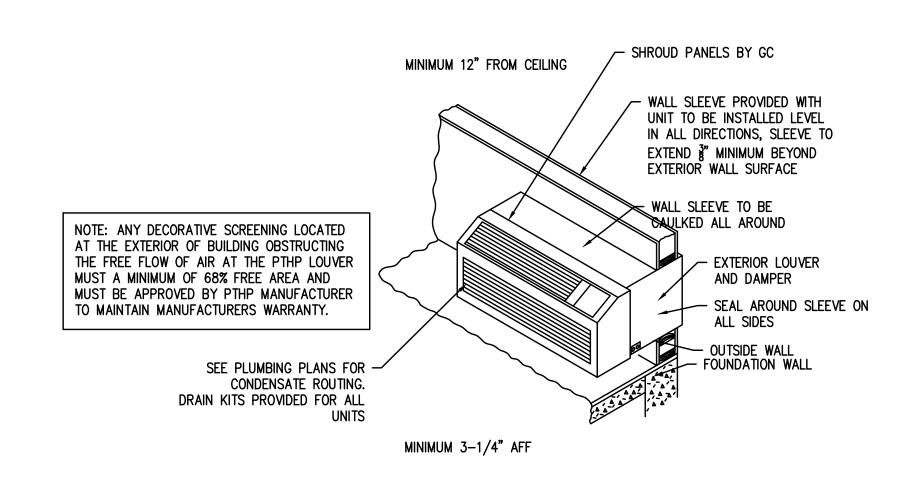
PERMIT SET 12/10/20



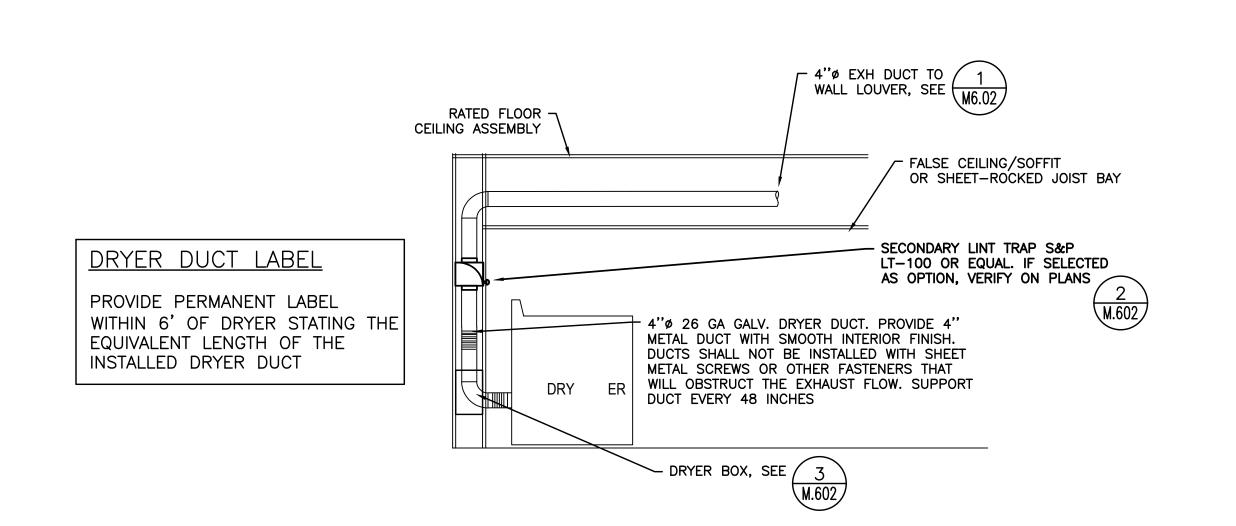
Consulting Engineers 2007 S.E. Ash St. Portland, OR 97214 PHN: (503) 234-0548 FAX: (503) 234-0677 WWW.MFIA-ENG.COM

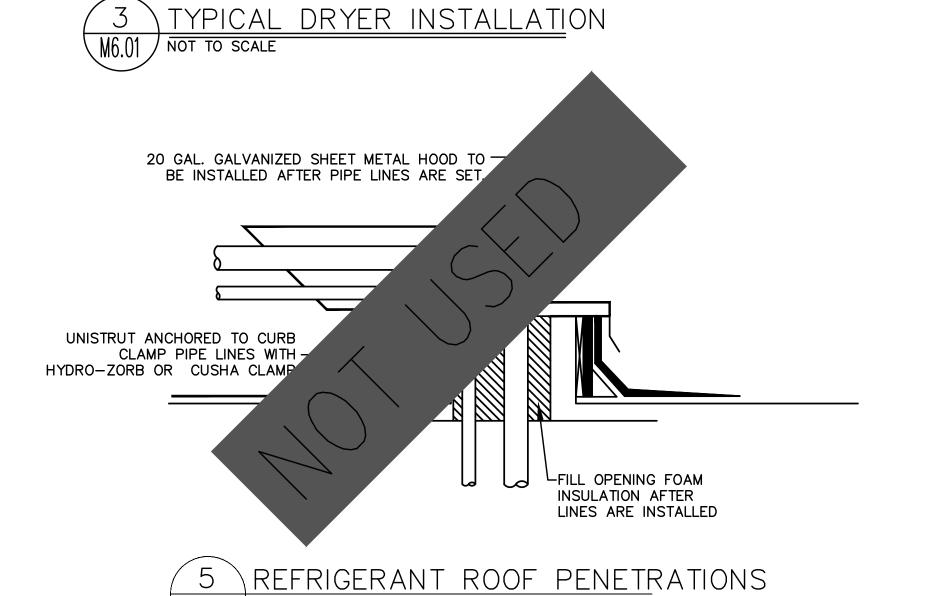
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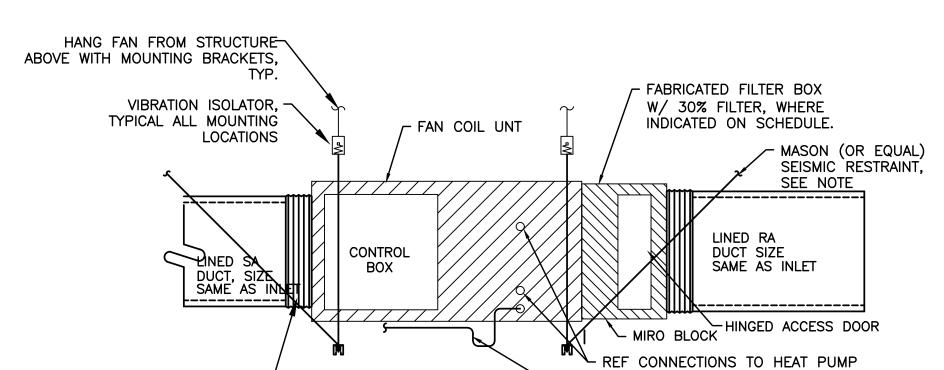
M6.00











NOTE: LOCATE SUPPORT & SIESMIC TO MAINTAIN UNHINDERED ACCESS FOR MAINTENANCE OF UNIT.

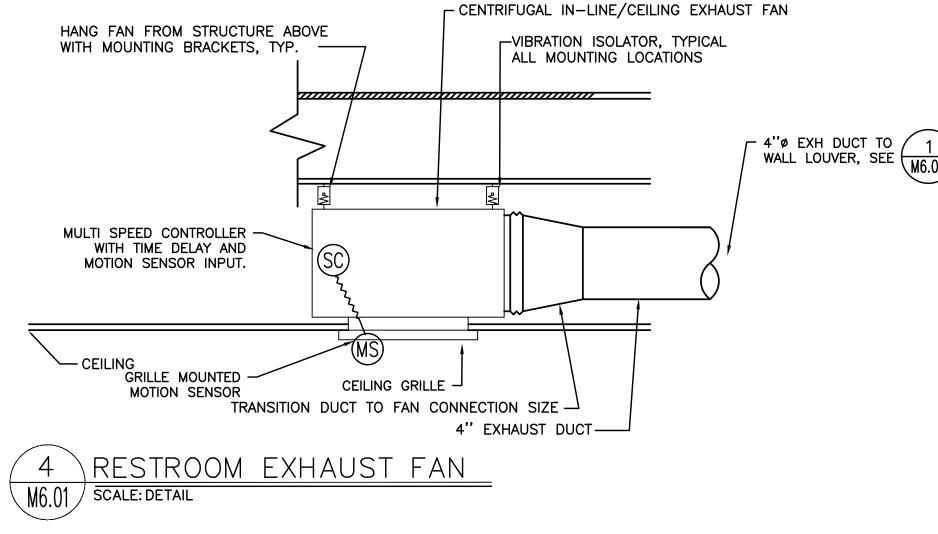
MATCH UNIT OUTLET SEE PLUMBING PLANS

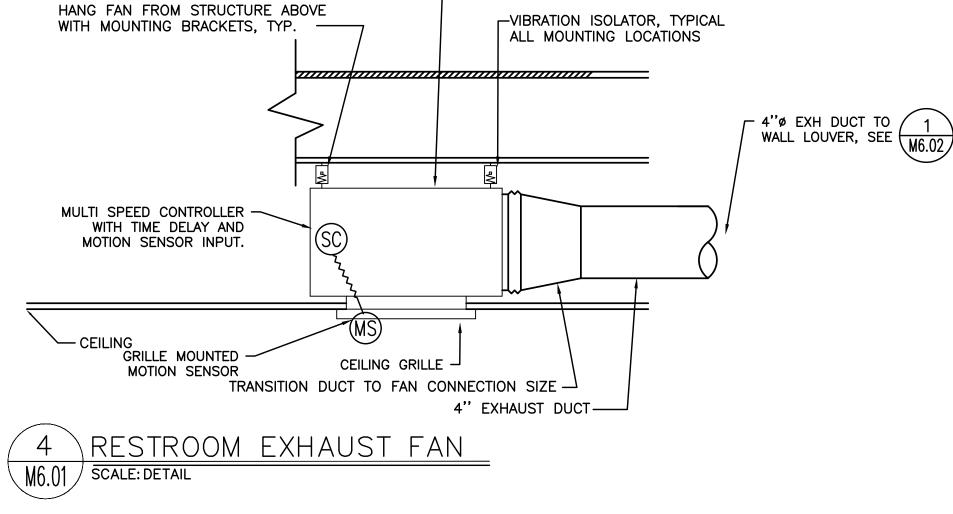
M6.01 SCALE: DETAIL

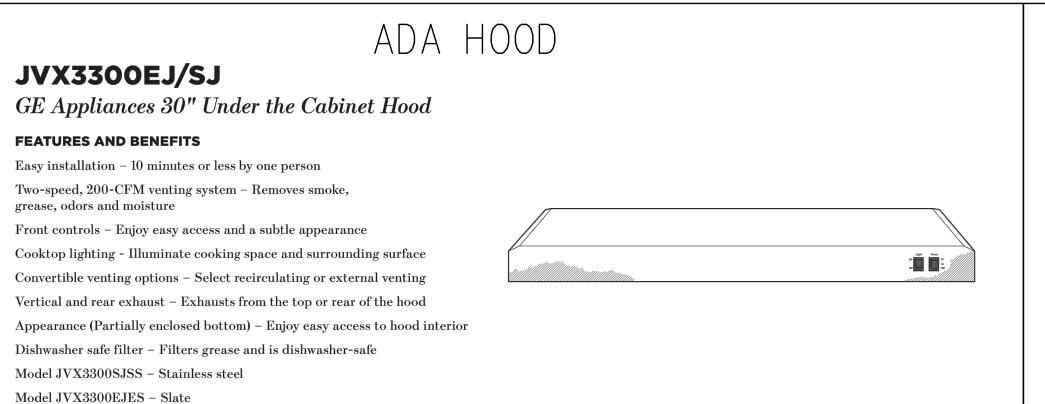
FLEXIBLE DUCT CONNECTION -

∠ CEILING

TYPICAL FOR INLET AND DISCHARGE







CFM/SONES RATINGS	
Exhaust High Speed (HS)	200/6.0
Exhaust Working Speed (WS)	100/1.5

Specification Revised 5/16

JVM3160RF/EF

GE® 1.6 cu. ft. Over-the-Range Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES) HOOD EXHAUST DUCT: Outside ventilation requires a HOOD EXHAUST DUCT. Read the following carefully.

EXHAUST CONNECTION: The hood exhaust has been designed to mate with a standard 3-1/4" x 10" rectangular duct. If a round duct is required, a rectangular-to-round transition adaptor must be used. Do not use less than a 6" diameter duct

REAR EXHAUST: If a rear or horizontal exhaust is to be used, care should be taken to align exhaust with space between studs, or wall should be prepared at the time it is constructed by leaving enough space between the wall studs to accommodate exhaust.

MAXIMUM DUCT LENGTH: For satisfactory air movement, the total duct length of 3-1/4" x 10" rectangular or 6" diameter round duct should not exceed 140 equivalent feet.

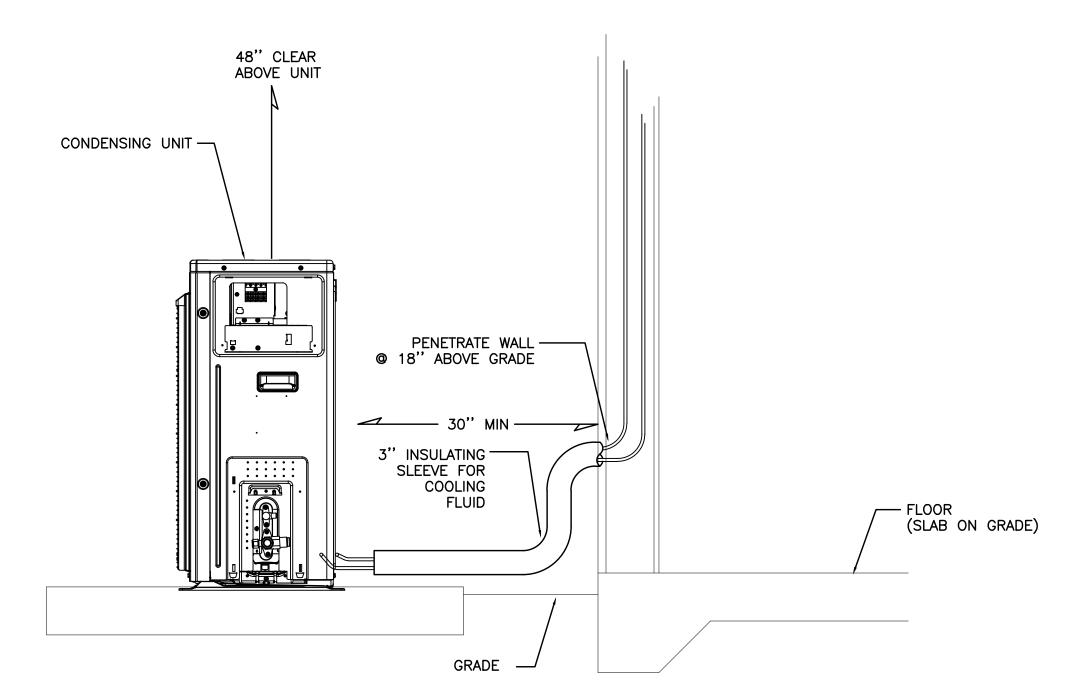
ELBOWS, TRANSITIONS, WALL AND ROOF CAPS, etc., present additional resistance to airflow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total duct length, add the equivalent length of all transitions and adaptors plus the lengths of all straight duct sections. The chart below shows the approximate feet of equivalent length of some typical ducts.

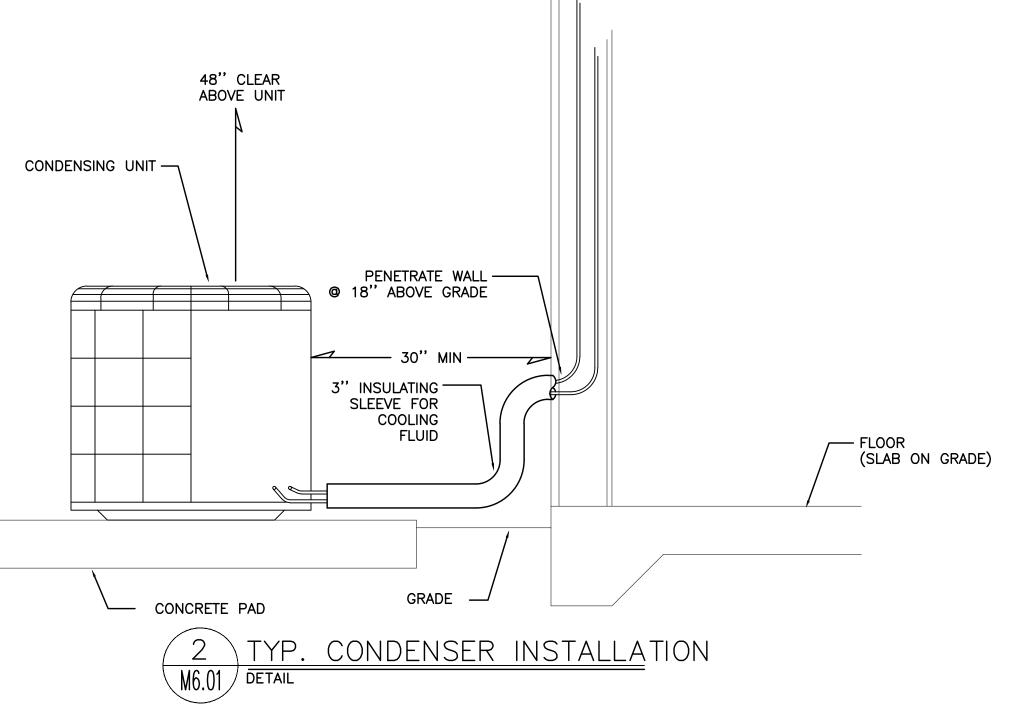
DUCT	EQUIVALENT FEET
A. Rectangular-To-round	
Transition Adaptor	5 ft.
B. Wall Cap	40 ft.
C. 90° Elbow	10 ft.
D. 45° Elbow	5 ft.
E. 90° Elbow	25 ft.
F. 45° Elbow	5 ft.
G Poof Con	24 ft



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.

Specification Revised 9/20





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OPTIONAL ACCESSORIES (AVAILABLE AT ADDITIONAL COST)

Filter Kit JX81L–

Recirculating Charcoal Filter Kit

To be used when

he Spacemaker

cannot be vented

nicrowave oven

o the outside.

0

12-10-20

EXPIRES: 31DEC21

REVIEW
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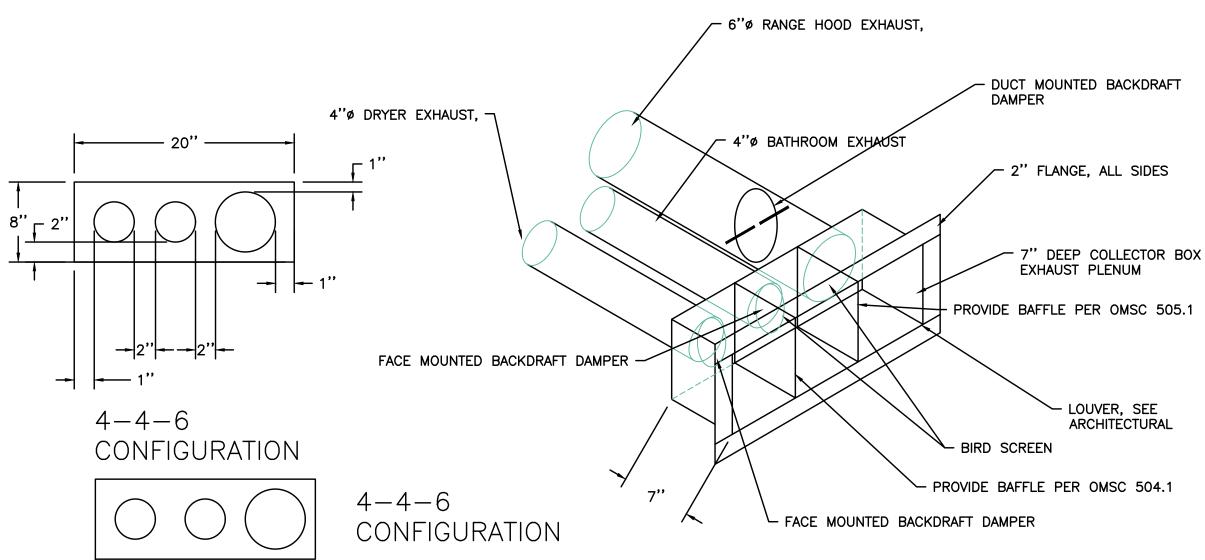
PERMIT SET 12/10/20





SHEET

M6.01



ADA DRYER

GFD55ESSN/ESPN GE® 7.8 cu. ft. Capacity Front Load Electric Dryer

DRYER EXHAUSTING INFORMATION -METAL DUCT ONLY

For complete information, see installation instructions packed with your dryer. **DUCTING MATERIALS:** For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting. **EXHAUST LENGTH CALCULATION:**

- 1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
- 2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table.
- A turn of 45° or less may be ignored. Two 45° turns within the duct length should be treated as a 90° elbow.
- A turn over 45° should be treated as a 90° elbow.

Dryers must be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard. Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other

obstruction with the opening pointed down. FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE CALL 1-800-GE-CARES.



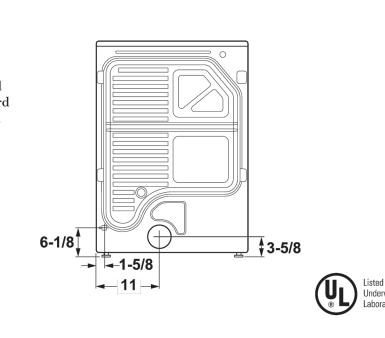
For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.

Best performance Maximum length of 4" dia. **rigid metal** duct Exhaust hood type dryer models 45 ft. 60 ft. 45 ft. 35 ft. 25 ft.

15 ft.

Specification Revised 11/19

25 ft.



GTX22EASK

GE Appliances Series 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Electric Dryer

FOR COMPLETE INFORMATION. SEE INSTALLATION INSTRUCTIONS PACKED WITH YOUR DRYER.

DUCTING MATERIALS:

For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semirigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

EXHAUST LENGTH CALCULATION:

1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.

2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table. A turn of 45° or less may be ignored. Two 45° turns within the duct length should be treated as a 90° elbow. A turn over 45° should be treated as a 90° elbow.

Dryers must be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.

FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE CALL 1-800-GE-CARES.



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or $GE\ Appliances\ product\ questions,\ visit\ our\ website\ at\ geappliances.com$ or call GE Answer Center® Service, 800.626.2000.

DRYER EXHAUSTING INFORMATION—

Long Vent 6.1-7.4 cu. ft. capacity electric & gas (GTD33, GTD42, GTD45, 4 60 ft. 45 ft. GTD65, GTX22, GTX33, GTX42

USE METAL DUCT ONLY VERTICAL AND

HORIZONTAL DUCTING

and GTX65)

For every extra 90° elbow, reduce the allowable vent system length by 10 ft. Two 45° elbows will be treated like one 90° elbow. For the side exhaust installations, add one 90° elbow to the chart. When calculating the total vent system length, you must add all the straight portions and elbows of the system (including the



SIDE WALL DWELLING UNIT VENTING WITH HOOD



DB-425

Locate a distributor near you by using the

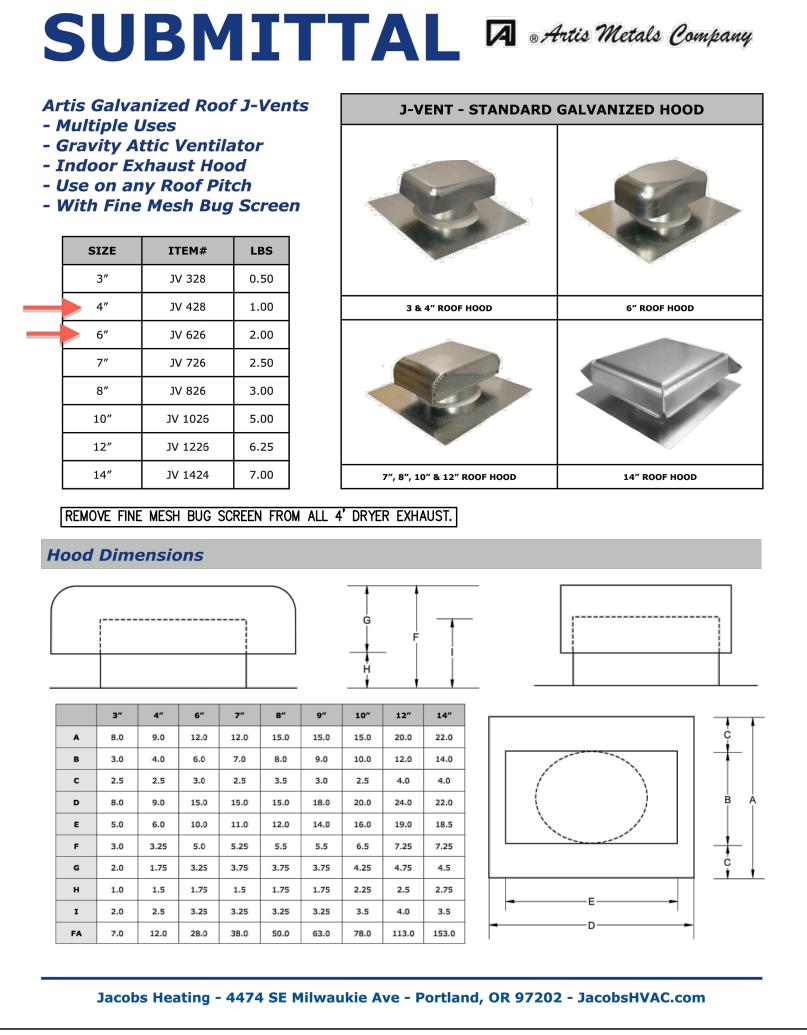
online supplier locator at www.dryerbox.com

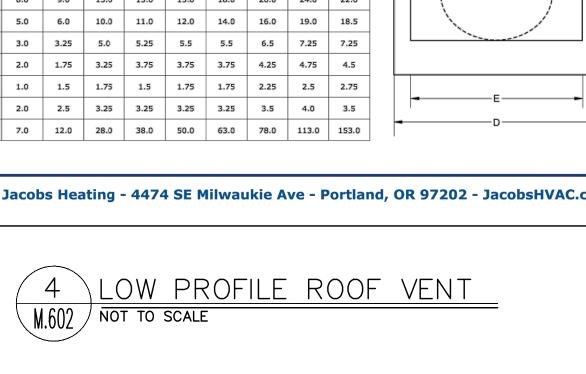
All rights reserved. Made in the USA Resources for other well made ventilation products by InOvate: www.Dryer-Ell.com • www.DryerFlex.com • www.DryerJack.com

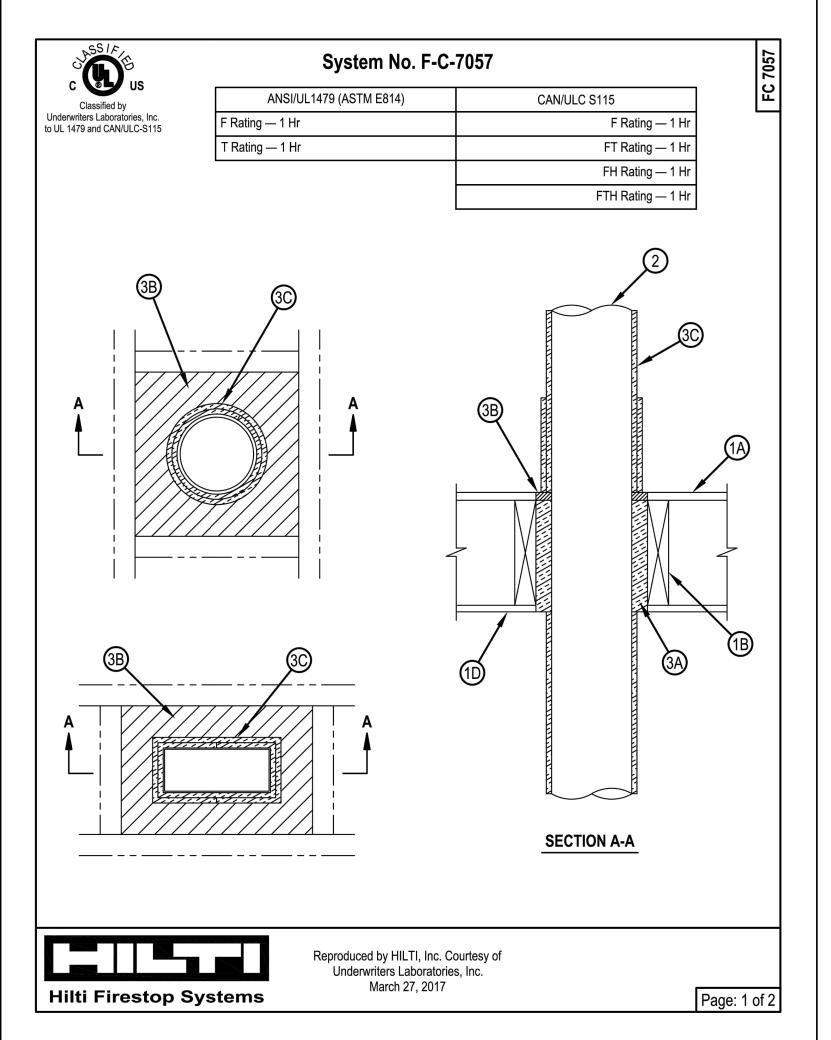
www.DryerPlacard.com • www.DryerWallVent.com

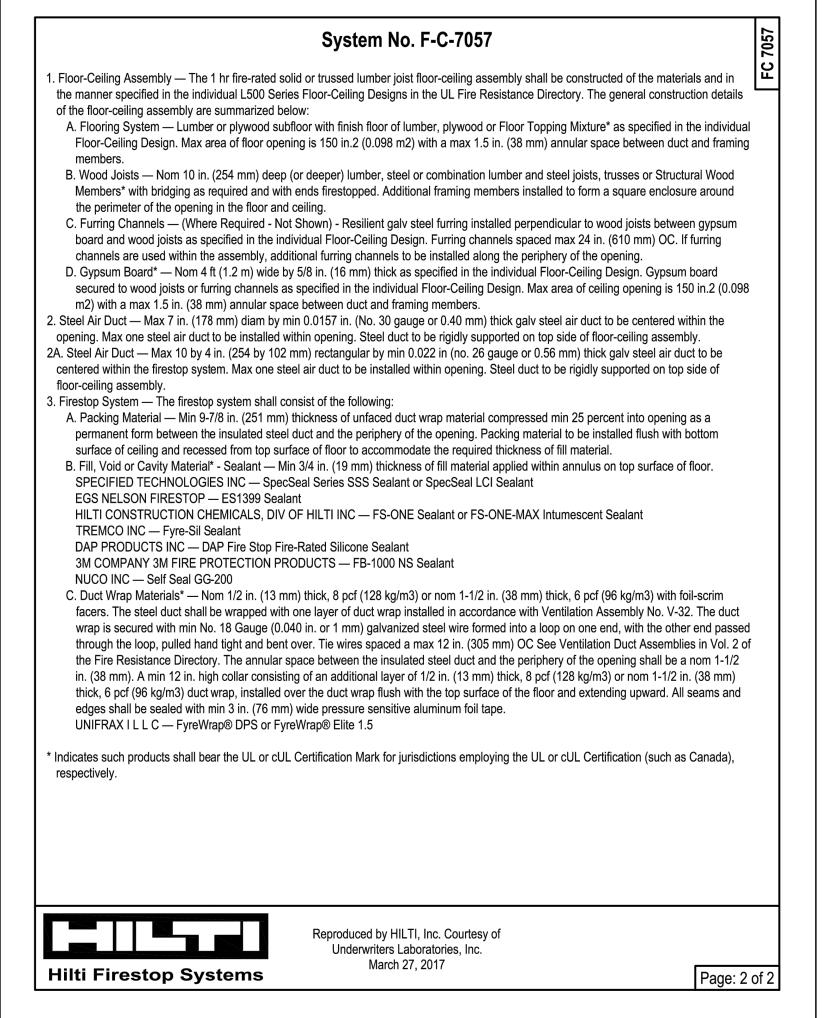
www.dryerbox.com

M.602 NOT TO SCALE











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Consulting Engineers 2007 S.E. Ash St. Portland, OR 97214 PHN: (503) 234-0548 FAX: (503) 234-0677 WWW.MFIA-ENG.COM

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