

APPLICABLE CODES

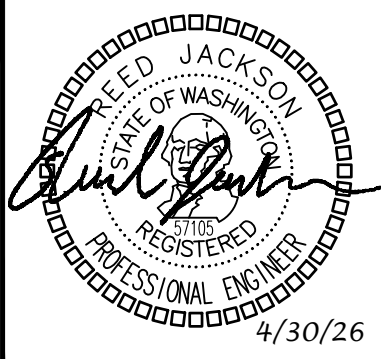
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DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS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

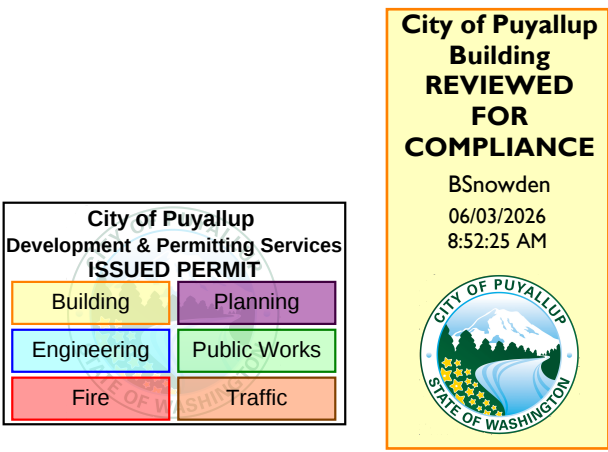
THESE DRAWINGS ARE BASED ON THE FOLLOWING CODES:

- 2021 INTERNATIONAL BUILDING CODE (WITH STATE OF WASHINGTON AMENDMENTS)
- 2021 INTERNATIONAL MECHANICAL CODE (WITH STATE OF WASHINGTON AMENDMENTS)
- 2021 UNIFORM PLUMBING CODE (WITH STATE OF WASHINGTON AMENDMENTS)
- 2021 INTERNATIONAL FUEL GAS CODE (WITH STATE OF WASHINGTON AMENDMENTS)
- 2021 WASHINGTON STATE ENERGY CODE – COMMERCIAL PROVISIONS

REMODEL OF EXISTING TACO TIME INTO A COFFEE SHOP. TWO EXISTING GAS HEATING/ELECTRIC COOLING ROOFTOP UNITS TO BE REUSED. NEW DUCTWORK SHALL BE INSTALLED FROM ROOFTOP UNITS FOR NEW FLOOR PLAN LAYOUT. NEW CEILING RESTROOM EXHAUST FANS SHALL BE INSTALLED PER CODE.

[illegible]

DRAWN:	JMN
DESIGNED:	JMN
REVIEWED:	JMN
APPROVED:	JMN



The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permittee on site for inspection.

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

DWG	DESCRIPTION	INCLUDED IN SET		SHEETS WITH REVISIONS	
		PERMIT SET 4/30/26			
M-000	LEGEND, GENERAL NOTES, DRAWING INDEX	●			
M-001	SCHEDULES, CALCULATIONS	●			
M-200	FLOOR PLAN	●			
M-201	ROOF PLAN	●			
M-400	DETAILS & DIAGRAMS	●			
M-500	HVAC LOAD CALCULATIONS	●			

PROJECT: **PEM WOODS COFFEE**

DATE: 4/30/26

SHEET TITLE:
LEGEND, GENERAL
NOTES, DRAWING
INDEX

SHEET NO

M-000

CALCULATIONS

[illegible]

NOTES: (1) VENTILATION RATES ARE PER THE 2021 IMC, TABLE 403.3.1.1.

SCHEDULES

EXISTING EQUIPMENT

EXISTING ROOFTOP HVAC UNIT SCHEDULE (ELEC COOL/GAS HEAT)													
EQUIP NO.	SERVICE	DISCHARGE	SUPPLY FAN		UNIT PROVIDED 100% OSA ECONOMIZER?	COOLING		HEATING		ELECTRICAL			BASIS OF DESIGN
			AIRFLOW, CFM	MIN. OSA, CFM		CAPACITY, MBH	SEER / EER	INPUT, MBH	OUTPUT, MBH	VOLTAGE	MCA	MOCp	
RTU-1	BEVERAGE PREP/WORKROOM	HORIZONTAL	1,900	250 (1)	YES	60.0	13.0 SEER	100	80	208V/3P	27.3	40	YORK D7CG060N07925EBA
RTU-2	SEATING AREA	HORIZONTAL	2,400	750 (1)	YES	72.0	13.0 SEER	125	100	208V/3P	33.2	40	YORK ZE072H12B2C1AA1A1

NOTES: (1) CONTRACTOR TO RE-BALANCE OUTSIDE AIR INTAKE FOR UNIT PER VENTILATION CALCULATIONS.

NEW EQUIPMENT

[illegible]

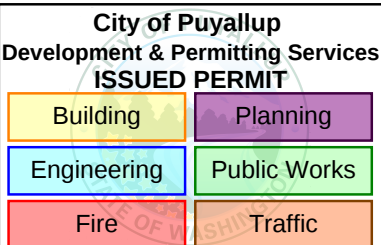
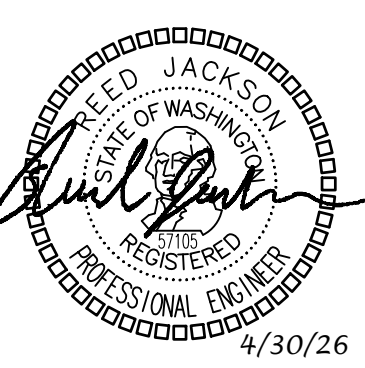
NOTES: (1) PROVIDE BACKDRAFT DAMPERS ON EXHAUST FANS.
(2) FAN SHALL RUN VIA MOTION SENSOR.
(3) 1.0 SONES MAXIMUM.
(4) FAN SHALL BE ENERGY STAR RATED.
(5) PROVIDE MANUFACTURER'S OPTIONAL MOTION SENSOR.

EQUIP NO.	BASIS OF DESIGN	AIRFLOW, CFM	ELECTRICAL, WATTS	MINIMUM FAN EFFICACY (1)	FAN EFFICACY
EF-1	COOK GEMINI GCVF-100	50	5.0	2.8 CFM/WATT	10.0 CFM/WATT

NOTES: (1) PER 2021 WSEC TABLE C403.8.4.

CALLOUT	DESCRIPTION	AIRFLOW RANGE, CFM	FACE SIZE, IN	BASIS OF DESIGN
CD-1	CEILING DIFFUSER	0-150	12x12	TITUS TDC
CD-2	CEILING DIFFUSER	0-300	24x24	TITUS TDC
RG-1	RETURN GRILLE	0-1000	24x12	TITUS 350ZRL
RG-2	RETURN GRILLE	0-2000	24x24	TITUS 350ZRL
SG-1	SUPPLY GRILLE	0-300	14x6	TITUS 301RL

DUCT TYPE	INSULATION MATERIAL	R-VALUE
SUPPLY AIR OR RETURN AIR DUCTS LOCATED IN UNCONDITIONED SPACE	MINERAL- WOOL BLANKET	6.0
SUPPLY AIR OR RETURN AIR DUCTS LOCATED OUTSIDE THE BUILDING	MINERAL- WOOL BLANKET	8.0
SUPPLY AIR OR RETURN AIR DUCTS EXPOSED WITHIN CONDITIONED SPACE	MINERAL- WOOL BLANKET	N/A
RETURN AIR OR EXHAUST AIR DUCTS DOWNSTREAM OF HEAT AND ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER	MINERAL- WOOL BLANKET	R-8
RELIEF OR EXHAUST AIR DUCTS WITHIN CONDITIONED SPACE AND DOWNSTREAM OF AN AUTOMATIC SHUTOFF DAMPER	MINERAL- WOOL BLANKET	R-16
EXHAUST AIR DUCTS WITHIN UNCONDITIONED SPACE	MINERAL- WOOL BLANKET	4.0
OUTSIDE AIR DUCTS WITHIN CONDITIONED SPACE	MINERAL- WOOL BLANKET	7.0

[illegible]

ROBISON
ENGINEERING, INC.
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
TEL: 206-364-3343
REI PROJECT:
1459-003
CONTACT:
MIKE NELSON

DRAWN:	JMN
DESIGNED:	JMN
REVIEWED:	JMN
APPROVED:	JMN

PROJECT: **PEM WOODS COFFEE**
 1127 E. MAIN AVENUE
 PUYALLUP, WA 98372

 **ROBISON**
 ENGINEERING, INC.

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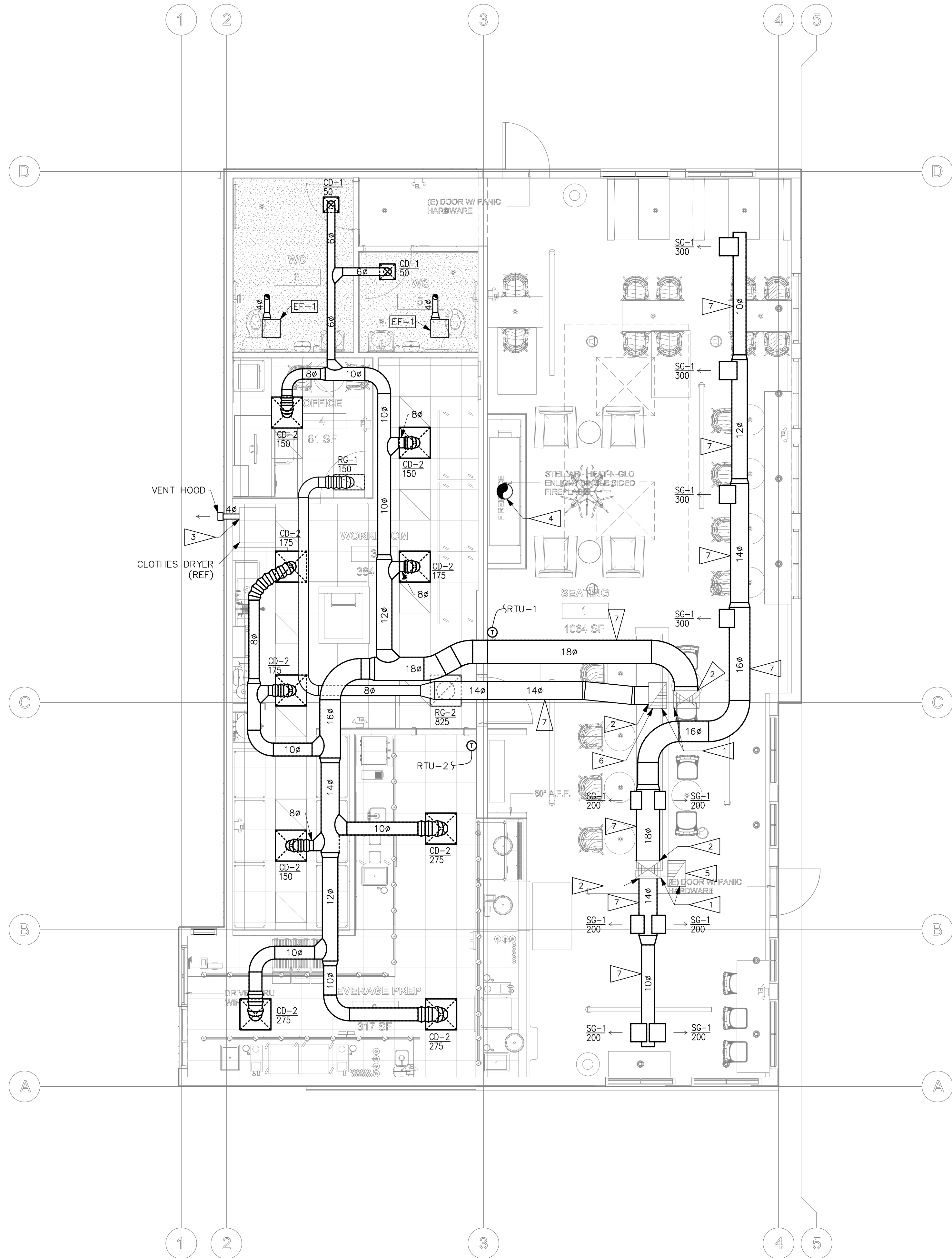
DATE: 4/30/26

SHEET TITLE:

SCHEDULES,
CALCULATIONS

PRCTI20260728

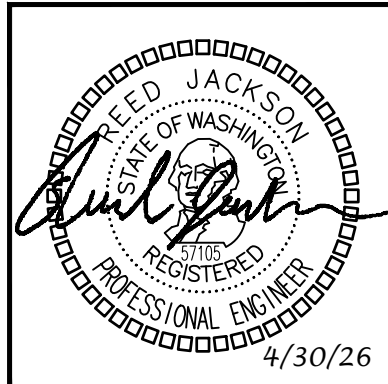
SHEET NO.
M-001



- PLAN NOTES:
1. CONTRACTOR TO PERFORM OPERATIONAL TEST AND INSPECTION OF EXISTING HVAC EQUIPMENT AND DUCTWORK. CONTRACTOR SHALL CLEAN AND PREPARE EXISTING HVAC EQUIPMENT AND DUCTWORK FOR NEW TENANT OCCUPANCY.
 2. ALL DUCT BRANCHES TO GRILLES/DIFFUSERS SHALL HAVE VOLUME BALANCING DAMPERS OR EACH GRILLE/DIFFUSER SHALL HAVE OPPOSED BLADE DAMPERS.
 3. INSULATE ALL DUCTWORK PER 2021 WSEC. REFER TO INSULATION SCHEDULE ON SHEET M-001.
 4. THERMOSTATS SHALL BE MOUNTED A MINIMUM OF 5'-6" AFF.
 5. DRYER EXHAUST TERMINATION. PROVIDE BACKDRAFT DAMPER. SCREEN SHALL NOT BE INSTALLED IN DRYER EXHAUST TERMINATION.

- FLAG NOTES:
- 1 EXISTING SUPPLY AND RETURN DUCT DROPS FROM EXISTING ROOFTOP HVAC UNITS.
 - 2 CONNECT NEW DUCTING TO EXISTING DUCTWORK.
 - 3 POINT OF CONNECTION TO CLOTHES DRYER.
 - 4 POINT OF CONNECTION TO FIREPLACE. CONTRACTOR TO VERIFY VENT SIZE WITH FIREPLACE MANUFACTURER.
 - 5 CONTRACTOR TO PROVIDE SCREENED OPENING AT BOTTOM OF EXISTING DUCT DROP FROM ROOFTOP UNIT. PROVIDE VOLUME DAMPER AND BALANCE AIRFLOW FOR 2,400 CFM.
 - 5 CONTRACTOR TO PROVIDE SCREENED OPENING AT BOTTOM OF EXISTING DUCT DROP FROM ROOFTOP UNIT. PROVIDE VOLUME DAMPER AND BALANCE AIRFLOW FOR 925 CFM.
 - 7 EXPOSED SPIRAL DUCTWORK.

NO.	DATE	DESCRIPTION	REVISIONS



ROBISON ENGINEERING, INC.
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
TEL: 206-364-3343
REI PROJECT: 1459-003
CONTACT: MIKE NELSON

JMN	JMN	JMN	JMN
DRAWN:	DESIGNED:	REVIEWED:	APPROVED:

PROJECT: **PEM WOODS COFFEE**
1127 E. MAIN AVENUE
PUYALLUP, WA 98372

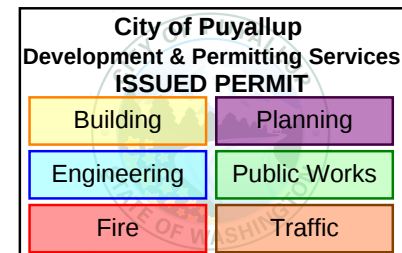
ROBISON ENGINEERING, INC.
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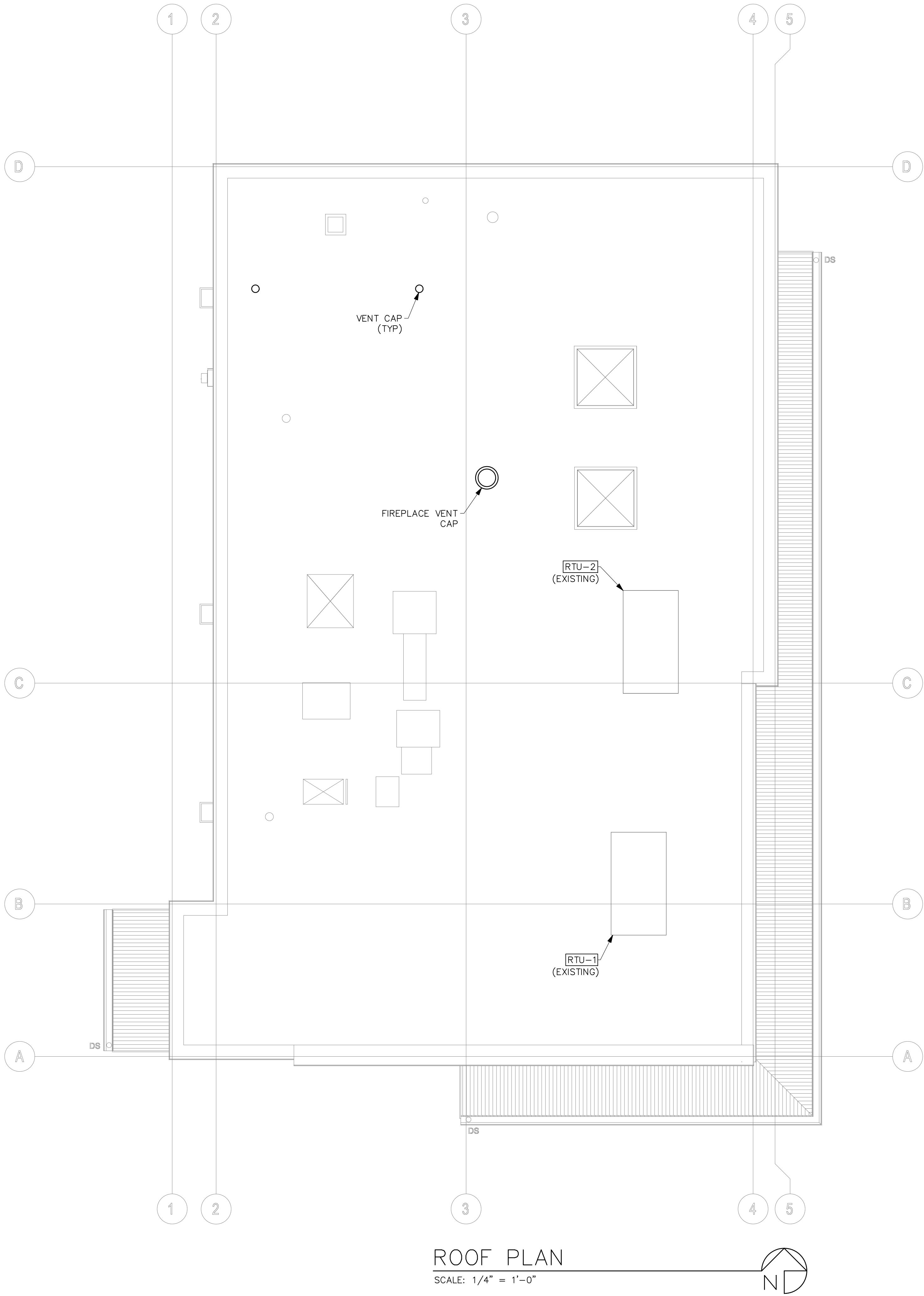
DATE: 4/30/26

SHEET TITLE: FLOOR PLAN

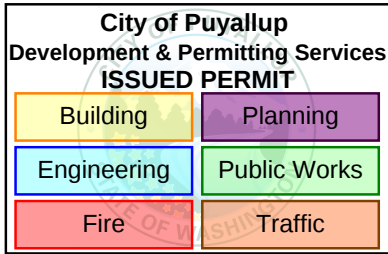
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SHEET NO. M-200

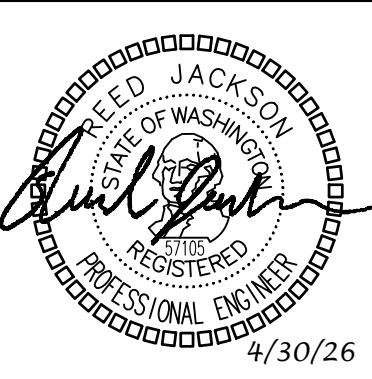




- PLAN NOTES:
- CONTRACTOR TO PERFORM OPERATIONAL TEST AND INSPECTION OF EXISTING HVAC EQUIPMENT AND DUCTWORK. CONTRACTOR SHALL CLEAN AND PREPARE EXISTING HVAC EQUIPMENT AND DUCTWORK FOR NEW TENANT OCCUPANCY.
 - EXHAUST VENT TERMINATIONS AND PLUMBING VENTS SHALL BE A MINIMUM OF 10'-0" CLEAR FROM ALL OUTSIDE AIR INTAKES AND A MINIMUM OF 3'-0" CLEAR FROM OPERABLE OPENINGS INTO THE BUILDING.



NO.	DATE	DESCRIPTION	REVISIONS



ROBISON ENGINEERING, INC.
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PEM WOODS COFFEE
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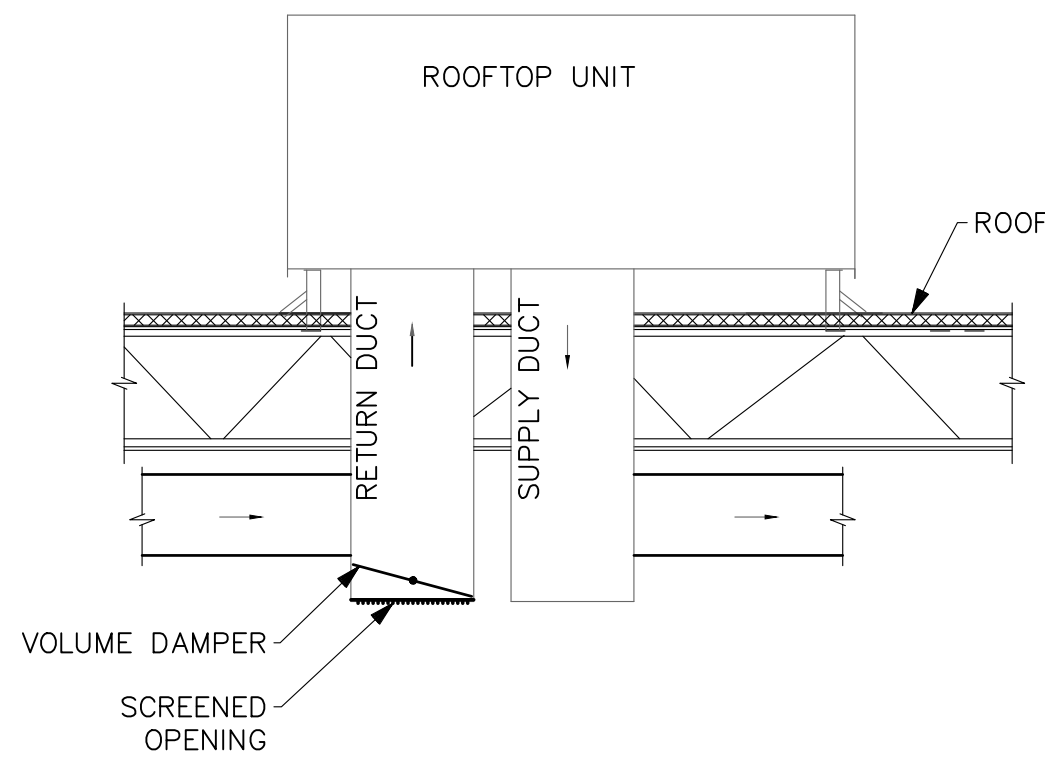
ROBISON ENGINEERING, INC.
19401 40TH AVE W, SUITE 302
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PHONE: (206) 364-3343

DATE: 4/30/26

SHEET TITLE: ROOF PLAN

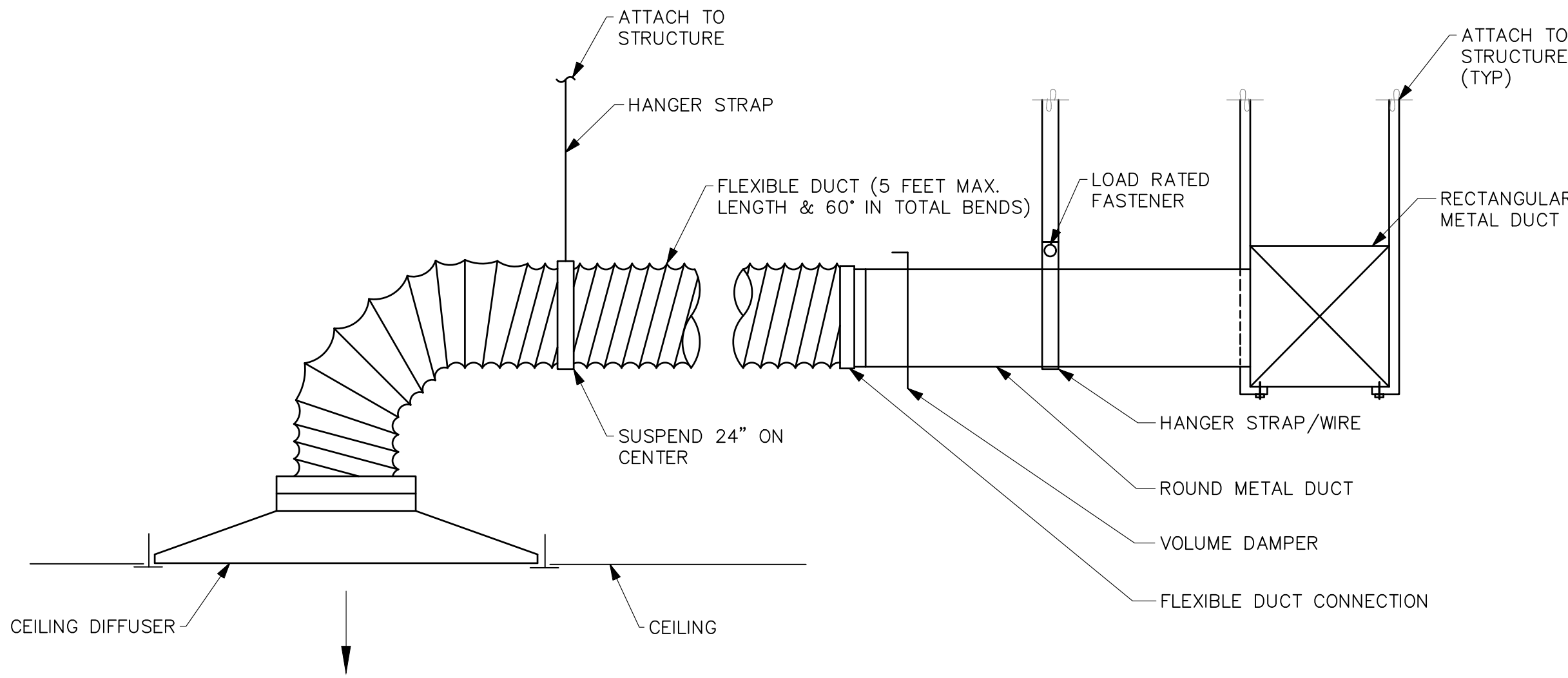
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SHEET NO. M-201



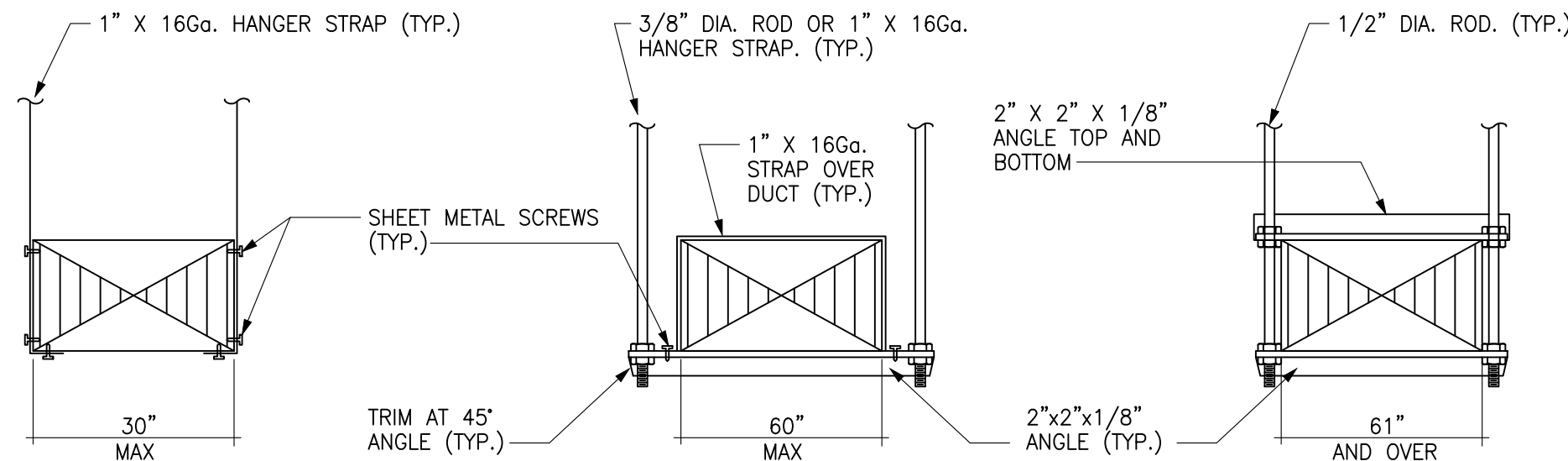
SCREENED OPENING AT EXISTING DUCT DROP
DETAIL

SCALE: NONE



DIFFUSER CONNECTION
DETAIL

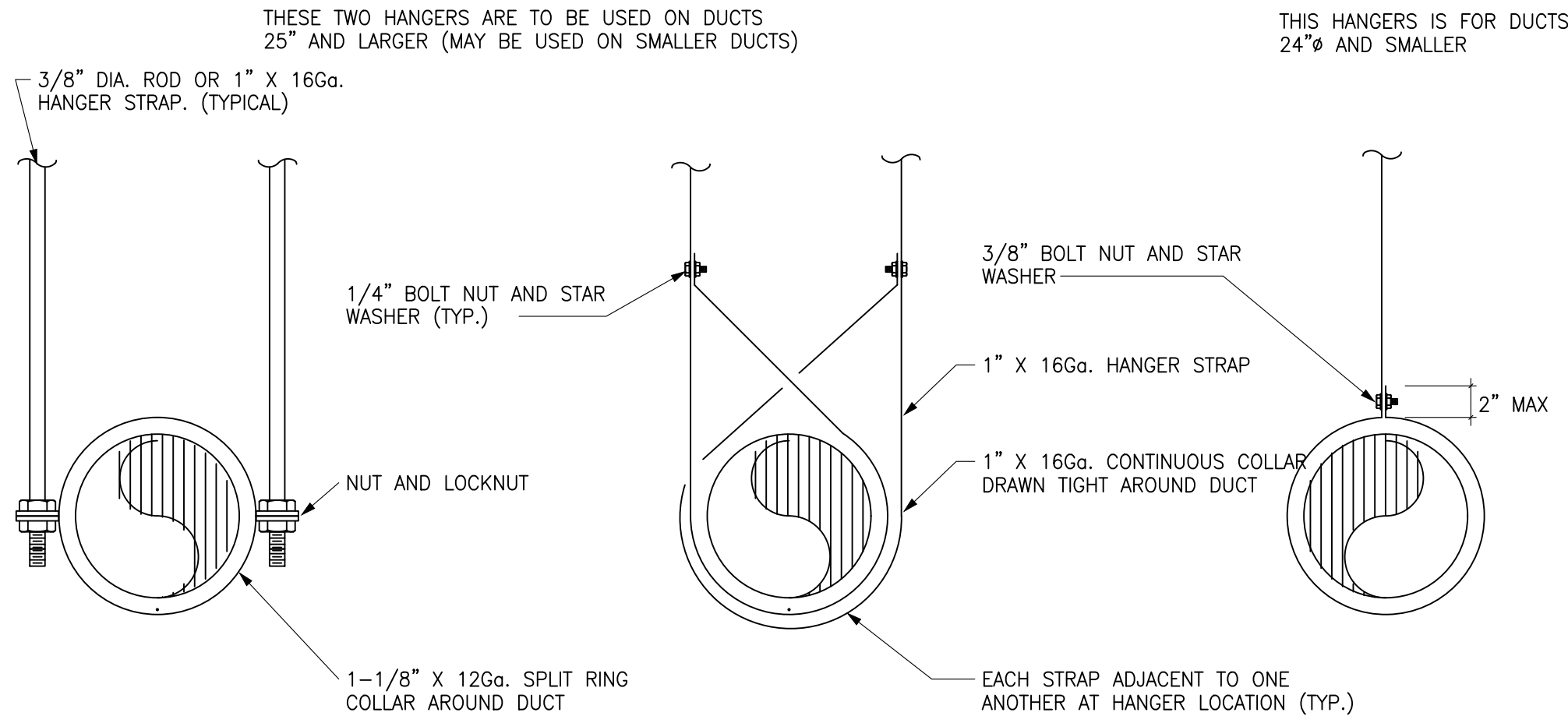
SCALE: NONE



- NOTES:
- HANGERS SHALL BE SPACED EVERY 5 FEET.
 - ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS AND WEIGHT LIMITATIONS. SUBMIT FOR REVIEW AND APPROVAL.
 - PROVIDE SWAY AND SEISMIC BRACING PER SMACNA SEISMIC GUIDELINES.

RECTANGULAR DUCT HANGER
DETAIL

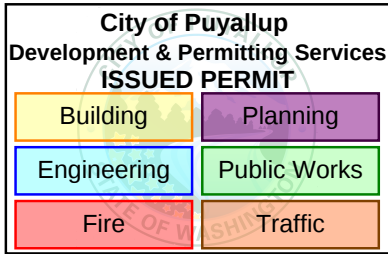
SCALE: NONE



- NOTES:
- HANGERS SHALL BE SPACED EVERY 5 FEET.
 - ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS AND WEIGHT LIMITATIONS. SUBMIT FOR REVIEW AND APPROVAL.
 - PROVIDE SWAY AND SEISMIC BRACING PER SMACNA SEISMIC GUIDELINES.

ROUND DUCT HANGER
DETAIL

SCALE: NONE



HVAC LOAD CALCULATIONS

Heating Load Details - System and Room										
Location		(Btu/h or % of System Total)								
		Rooftop	3%	Water	Wall	Glass	Slab	Ventilation	Infiltration	
Room [1] SEATING		1,670		2,320	4%	9,270	18%	0	36,600	70%
Room [2] BEVERAGE PREP		504	8%	998	16%	1,330	21%	0	2,730	44%
Room [3] WORKROOM		604	11%	905	17%	0	0%	0	3,080	57%
Room [4] OFFICE		127	11%	297	27%	0	0%	0	496	44%
Room [5] WC										
Room [6] WC										
						Excluded from heating				
						Excluded from heating				

Load Total Summary - System																
(Includes Ventilation and Plenum Loads)																
Location	Area	Cooling											Heating			
		CFM	Peak	btuh			Tons			ft ² /ton	CFM/ton	CFM/ft ²	CFM	btuh	kW	CFM/ft ²
				Total	Sensible	Latent	Total	Sensible	Latent							
Zone Default	1,890 ft ²	3,290	3.00 p.m.	105,000	79,800	25,000	8.7	6.7	2.1	216	377	1.74	1,040	65,400	19.2	0.55
Room [1] SEATING	1,100 ft ²	2,190	2.00 p.m.	72,000	50,100	21,900	6	4.2	1.8	183	365	2	741	52,600	15.4	0.68
Room [2] BEVERAGE PREP	326 ft ²	887	5.00 p.m.	21,300	19,900	1,430	1.8	1.7	0.1	183	500	2.72	164	6,260	1.8	0.5
Room [3] WORKROOM	386 ft ²	469	6.00 p.m.	12,000	10,500	1,460	1	0.9	0.1	386	469	1.21	109	5,430	1.6	0.28
Room [4] OFFICE	81 ft ²	54	7.00 p.m.	1,460	1,220	237	0.1	0.1	0	668	445	0.67	29	1,120	0.3	0.36
Room [5] WC				Excluded from cooling									Excluded from heating			
Room [6] WC				Excluded from cooling									Excluded from heating			

Total Load Summary - Room																
(Excludes Ventilation and Plenum Loads)																
Location	Area	Cooling												Heating		
		CFM	Peak	btuh			Tons			ft ² /ton	CFM/ton	CFM/ft ²	CFM	btuh	kW	CFM/ft ²
				Total	Sensible	Latent	Total	Sensible	Latent							
Zone Default	1,890 ft ²	3,290	300 p.m.	95,100	72,300	22,700	7.9	6	1.9	239	415	1.74	1,040	22,500	6.6	0.55
Room [1] SEATING	1,100 ft ²	2,190	900 a.m.	68,100	48,100	19,900	5.7	4	1.7	193	386	2	741	16,000	4.7	0.68
Room [2] BEVERAGE PREP	326 ft ²	887	500 p.m.	20,800	19,500	1,290	1.7	1.6	0.1	188	512	2.72	164	3,540	1	0.5
Room [3] WORKROOM	386 ft ²	469	700 p.m.	11,600	10,300	1,300	1	0.9	0.1	399	485	1.21	109	2,350	0.7	0.28
Room [4] OFFICE	81 ft ²	54	700 p.m.	1,410	1,200	211	0.1	0.1	0	690	459	0.67	29	622	0.2	0.36
Room [5] WC				Excluded from cooling								Excluded from heating				
Room [6] WC				Excluded from cooling								Excluded from heating				

Room Information, Part 1										
Values in <i>italics> have been changed from the default</i>										
Number	Name	Area	Ceiling Height	Ventilation		Infiltration		Cooling Temperature	Heating Temperature	Relative Humidity
				Cooling	Heating	Cooling	Heating			
[4] OFFICE	(WSMC 201) Office Spaces (Offices)	81 ft ²	10'	7.5 CFM/ person 0.06 CFM/ ft ² 5 CFM/ person	5 Same as cooling CFM 5 Same as cooling CFM 5 CFM cooling CFM	0.25 AC/ hour	4 Same as cooling CFM 4 CFM	75° F	70° F	50%
[5] WC	[Unoccupied] - Restrooms	49 ft ²	9'	Direct	0 Same as CFM cooling CFM 0 CFM cooling CFM	Direct	0 Same as cooling CFM 0 CFM	75° F	70° F	50%
[6] WC	[Unoccupied] - Restrooms	87 ft ²	9'	Direct	0 Same as CFM cooling CFM 0 CFM cooling CFM	Direct	0 Same as cooling CFM 0 CFM	75° F	70° F	50%

Room Information, Part 2						
Values in <i>italics</i> have been changed from the default						
Number	Lighting Load	Equipment Load		People		Glass Zone Type
		Sensible	Latent	Sensible btuh / Person	Latent btuh / Person	
[1] SEATING	0.8 watts / ft ² 3,000	0.5 watts / ft ² 1,870	0	72 people	275	275 C
[2] BEVERAGE PREP	1 watts / ft ² 1,110	10 watts / ft ² 11,100	0	2 people	375	625 C
[3] WORKROOM	1 watts / ft ² 1,320	5 watts / ft ² 6,390	0	2 people	375	625 C
[4] OFFICE	0.8 watts / ft ² 221	1 watts / ft ² 277	0	1 person	250	200 C
[5] WC	0.8 watts / ft ² 135	0	0	0 people	0	0 C
[6] WC	0.8 watts / ft ² 237	0	0	0 people	0	0 C

Supply Air Requirements													
Location	Current Supply CFM	Required Supply CFM	Cooling						Heating				
			Peak	Supply Temperature	Sensible Load (btuh)	Supply CFM	OSA CFM	OSA %	Heating Temperature Difference	Load (btuh)	Supply CFM	OSA CFM	OSA %
Zone Default		0	3,290 Jumbo p.m.	55° F	72,300	3,290	865	26%	20° F dT	22,500	1,040	865	83%
Room [1] SEATING	0	2,190 Jumbo a.m.			48,100	2,190	738	34%		16,000	741	738	100%
Room [2] BEVERAGE PREP	0	887 Jumbo p.m.			19,500	887	55	6%		3,540	164	55	34%
Room [3] WORKROOM	0	469 Jumbo p.m.			10,300	469	62	13%		2,350	109	62	57%
Room [4] OFFICE	0	54 Jumbo p.m.			1,200	54	10	19%		622	29	10	34%
Room [5] WC	0	0	Excluded from cooling						Excluded from heating				
Room [6] WC	0	0	Excluded from cooling						Excluded from heating				

Ventilation Schedule							
Location	Room Type	Ventilation Requirements	Area (m ²)	People	Ventilation CFM	Supply CFM	Ventilation %
Zone Default			1,890	77	865	3,290	26%
Room [1] SEATING	(WSMC 2021) Dining Room - (Food Service)	0.18 CFM / m ² 7.5 CFM / person	1,100	72	738	2,190	34%
Room [2] BEVERAGE PREP	(WSMC 2021) Kitchen Cooking- (Food Service)	0.12 CFM / m ² 7.5 CFM / person	326	2	55	887	6%
Room [3] WORKROOM	(WSMC 2021) Kitchen Cooking- (Food Service)	0.12 CFM / m ² 7.5 CFM / person	386	2	62	469	13%
Room [4] OFFICE	(WSMC 2021) Office Spaces (Offices)	0.06 CFM / m ² 5 CFM / person	81.1	1	10	54	19%
Room [5] WC	[Unoccupied] - Restrooms	Direct	0	0	0	0	0%
Room [6] WC	[Unoccupied] - Restrooms	Direct	0	0	0	0	0%

Cooling Load Details - System									
(Btu/h • % Total)									
(See "Cooling Load Details - Room" for lighting, equipment, and people loads)									
Location	Peak	Roof	Wall	Glass	Ventilation		Infiltration		
					Sensible	Latent	Sensible	Latent	
Zone Default	June 3:00 p.m.	3,220	3,200	2,000	2,000	19,300	118,760	776	139
Room [1] SEATING	June 2:00 p.m.	1,560	2,150	2,000	16,300	23%	5,940	8%	1,960
Room [2] BEVERAGE PREP	June 5:00 p.m.	664	363	663	3,110	24%	368	2%	146
Room [3] WORKROOM	June 6:00 p.m.	788	728	691	0	0%	282	2%	165
Room [4] OFFICE	June 7:00 p.m.	160	11%	284	19%	0	0%	20	1%
Room [5] WC	Excluded from cooling								
Room [6] WC	Excluded from cooling								

[illegible]

Heating Load Details - System and Room													
(Btu/h / % of System Total)													
Location		Roof		Wall		Glass		Slab	Ventilation		Infiltration		
Zone Default		2,910	4%	4,520	7%	10,600	16%	0	0%	42,900	66%	4,460	7%

Project Information			
Project Name:	WOODS COFFEE - PUYALLUP, WA		
Project Location:	Puyallup, WA		
Default Heating Temperature:	70° F	Heating Safety Factor (Room):	0%
		Heating Safety Factor (Ventilation):	0%
Default Cooling Temperature:	75° F	Cooling Safety Factor (Room):	0%
		Cooling Safety Factor (Ventilation):	0%
Default Relative Humidity:	50%	Floor Slab Heat Loss Coefficient:	0.54
Calculation Date:	April 22, 2026, 8:35 a.m.		
Design Conditions			
OSA Low:		24° F Latitude:	48° N
OSA Daily Range:		18° F Elevation:	40'
	OSA High Dry Bulb	OSA High Wet Bulb	
January	54° F		49° F
February	60° F		50° F
March	62° F		50° F
April	70° F		55° F
May	79° F		61° F
June	83° F		66° F
July	83° F		66° F
August	83° F		66° F
September	82° F		63° F
October	70° F		59° F
November	59° F		52° F
December	54° F		51° F

Roof Types				
Roof Type	U-Value	ASHRAE Type	Color	Description
1994 WSEC - CODE MIN	0.034		5 Dark	1994 WSEC - CODE MINIMUM

Roofs		
Location	Type	Area
Floor One	1994 WSEC - CODE MIN	1,990 ft ²

Wall Types				
Wall Type	U-Value	ASHRAE Type	Color	Description
WD - GWB - R19	0.053		5-Dark	Wood - GWB - R19

Walls						
Room Number	Length	Height	Area (Minus Doors and Glass)	Type	Facing Direction	On Perimeter
[1] SEATING	15'-3"	13'-6"	199 sq ft	WD - GWB - R19	S	
[1] SEATING	15'-3"	13'-6"	20 sq ft	WD - GWB - R19	S	
[1] SEATING	24'-9"	13'-6"	188 sq ft	WD - GWB - R19	E	
[1] SEATING	33'-3"	13'-6"	305 sq ft	WD - GWB - R19	E	
[1] SEATING	27'-11"	13'-6"	302 sq ft	WD - GWB - R19	N	
[2] BEVERAGE PREP	9'-1"	13'-6"	83 sq ft	WD - GWB - R19	W	

Walls						
Room Number	Length	Height	Area (Minus Doors and Glass)	Type	Facing Direction	On Perimeter
(2) BEVERAGE PREP	2'11"	13'-6"	296 ft ²	WD - GWB - R19	S	
(2) BEVERAGE PREP	2'11"	13'-6"	31 ft ²	WD - GWB - R19	N	
(3) WORKROOM	27'-6"	13'-6"	371 ft ²	WD - GWB - R19	W	
(4) OFFICE	9'	13'-6"	122 ft ²	WD - GWB - R19	W	
(6) WC	11'-3"	13'-6"	152 ft ²	WD - GWB - R19	W	
(6) WC	7'-9"	13'-6"	104 ft ²	WD - GWB - R19	N	

Glass Types			
Glass Type	U-Value	SHGC	Description
2021 WSEC - Entrance Doors	0.6	0.4	2021 WSEC Minimum - Entrance Doors
2021 WSEC - Fixed	0.34	0.38	2021 WSEC - Fixed - Fenestration
Existing - Skylight	1.3	0.65	Existing - Taco Time - Skylight
Existing - W-1	0.6	0.65	Existing - Taco Time - Window W-1

Glass				
Room Number	Area	Type	Facing Direction	Shaded
(1) SEATING	32 ft ²	Existing - Skylight	Up	
(1) SEATING	72 ft ²	2021 WSEC - Fixed	S	
(1) SEATING	126 ft ²	2021 WSEC - Fixed	E	
(1) SEATING	21 ft ²	2021 WSEC - Entrance Doors	E	
(1) SEATING	144 ft ²	2021 WSEC - Fixed	E	
(1) SEATING	55 ft ²	2021 WSEC - Fixed	N	
(1) SEATING	21 ft ²	2021 WSEC - Entrance Doors	N	
(2) BEVERAGE PREP	40 ft ²	Existing - W-1	W	
(2) BEVERAGE PREP	8 ft ²	Existing - W-1	N	

Room Information, Part 1										
Values in <i>italics></i> have been changed from the default										
Number	Name	Area	Ceiling Height	Ventilation		Infiltration		Cooling Temperature	Heating Temperature	Relative Humidity
				Cooling	Heating	Cooling	Heating			
[1] SEATING	(WSMC 2021) Dining Room- (Food Service)	1,100 ft ²	12'	0.18 CFM / ft ² 7.5 CFM / person	198 Same as 198 CFM cooling CFM 540 Same as 540 CFM cooling CFM	0.25 AC / hour CFM	55 Same as 55 cooling CFM	75° F	70° F	50%
[2] BEVERAGE PREP	(WSMC 2021) Kitchen Cooking- (Food Service)	326 ft ²	10'	0.12 CFM / ft ² 7.5 CFM / person	40 Same as 40 CFM cooling CFM 15 Same as 15 CFM cooling CFM	0.25 AC / hour CFM	14 Same as 14 cooling CFM	75° F	70° F	50%
[3] WORKROOM	(WSMC 2021) Kitchen Cooking- (Food Service)	386 ft ²	10'	0.12 CFM / ft ² 7.5 CFM / person	47 Same as 47 CFM cooling CFM 15 Same as 15 CFM cooling CFM	0.25 AC / hour CFM	17 Same as 17 cooling CFM	75° F	70° F	50%

[illegible]

DRAWN:	JMN
DESIGNED:	JMN
REVIEWED:	JMN
APPROVED:	JMN

PROJECT: PEM WOODS COFFEE

1127 E. MAIN AVENUE
PUYALLUP, WA 98372

ROBISON
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19401 40TH AVE. W. SUITE 302
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DATE: 4/30/26

SHEET TITLE:

HVAC LOAD
CALCULATIONS

PRCTI20260728

SHEET NO.
M-500