

1 HVAC FLOOR PLAN
1/4" = 1'-0"

KEY NOTES:

- 1 REMOTE SMOKE DETECTOR TEST STATIONS FOR RTU-1, 2 & 3. TEST STATIONS TO BE MOUNTED ON THE MANAGER'S OFFICE WALL. SECURITY CONTRACTOR SHALL WIRE RTU FACTORY MOUNTED SMOKE DETECTORS TO SECURITY/FIRE ALARM PANEL. MECHANICAL CONTRACTOR SHALL PROVIDE TEST STATION AND WIRING BETWEEN COMPONENTS AS WELL AS WIRING TO SHUT DOWN THE A/C FAN UPON ACTIVATION OF THE SMOKE DETECTOR. G.C. TO TEST THE SMOKE DETECTOR FUNCTIONS WITH THE WAVA PROJECT MANAGER.
- 2 WALL MOUNTED SENSOR(S) FOR EACH MECHANICAL UNIT PER ROOFTOP UNIT SCHEDULE ON SHEET M3.0. G.C. SHALL INSTALL AND WIRE TO UNIT. BAS CONTRACTOR SHALL CONNECT TO MECHANICAL UNIT ONLY.
- 3 COORDINATE EXACT LOCATION OF EXHAUST FAN PENETRATION WITH ARCHITECTURAL ROOF PLAN. INSTALL GALVANIZED DUCT WORK DOWN FROM FAN, INTO CEILING/JOIST SPACE, AND CONNECT TO CEILING GRILLES.
- 4 REFER TO TYPICAL DUCT PLENUM DETAIL ON SHEET M3.0.
- 5 COORDINATE DUCT WITH STRUCTURE IN THIS LOCATION. COORDINATE TAKEOFF LOCATIONS WITH ANGLED WEB MEMBERS.
- 6 PROVIDE SURFACE MOUNT ADAPTER FRAME TO ALLOW ACCESS TO CEILING ABOVE THROUGH DIFFUSER OPENING. SEE AIR DEVICE SCHEDULE.
- 7 ROUTE DUCT UNDER STRUCTURAL MEMBERS AT THIS LOCATION.
- 8 DUCTWORK TO RUN WITHIN JOIST SPACING. MECHANICAL CONTRACTOR TO COORDINATE MECHANICAL WORK WITH ALL TRADES PRIOR TO INSTALLATION.
- 9 DUCT TAKEOFF WITH DAMPER FROM BOTTOM OF MAIN DUCT.
- 10 TRANSFER DUCT ASSEMBLY.
- 11 PROVIDE SEALED 20"x20" PLENUM BOX ASSEMBLY ABOVE TRANSFER GRILLES TO ALLOW FLEX TRANSFER DUCT CONNECTIONS.
- 12 GRILLE OPEN TO ABOVE CEILING.
- 13 INSTALL EXHAUST FAN ABOVE CEILING PER DETAIL SHEET M3.0. FAN SHALL BE WIRED TO EMERGENCY SHUTOFF SWITCH PROVIDED BY OTHERS. REFERENCE ARCHITECTURAL AND ELECTRICAL DRAWINGS.
- 14 MOUNT CENTER OF EXHAUST GRILLE AT 12" ABOVE FINISHED FLOOR. ROUTE DUCT SIZED AS SHOWN FROM GRILLE. UP IN WALL CAVITY TO ABOVE CEILING, THEN TO EXHAUST FAN AND OUT TO EXTERIOR WALL LOUVER. COORDINATE DUCT ROUTING WITH ALL OTHER TRADES.
- 15 EMERGENCY SHUTOFF SWITCH AND WALL PLACARD INDICATING VENTILATION SYSTEM EMERGENCY SHUTOFF PROVIDED BY OTHERS. REFERENCE ELECTRICAL AND ARCHITECTURAL DRAWINGS.
- 16 12"x12" EXTERIOR WALL LOUVER MODEL EHH-001 AS MANUFACTURED BY GREENHECK. INSTALL PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. FLORIDA PRODUCT APPROVAL #10088.1. PROVIDE WITH BIRD SCREEN, 1-1/2" FLANGE, AND ALUMINUM MILL FINISH.
- 17 COORDINATE WITH FIRE ALARM CONTRACTOR (ADA) FOR SMOKE DETECTORS TO BE RESETTABLE AND SUPERVISED AT FIRE ALARM PANEL. PROVIDE REMOTE TEST SWITCH IN THE CEILING TILE THAT CORRESPONDS TO DUCT DETECTOR.

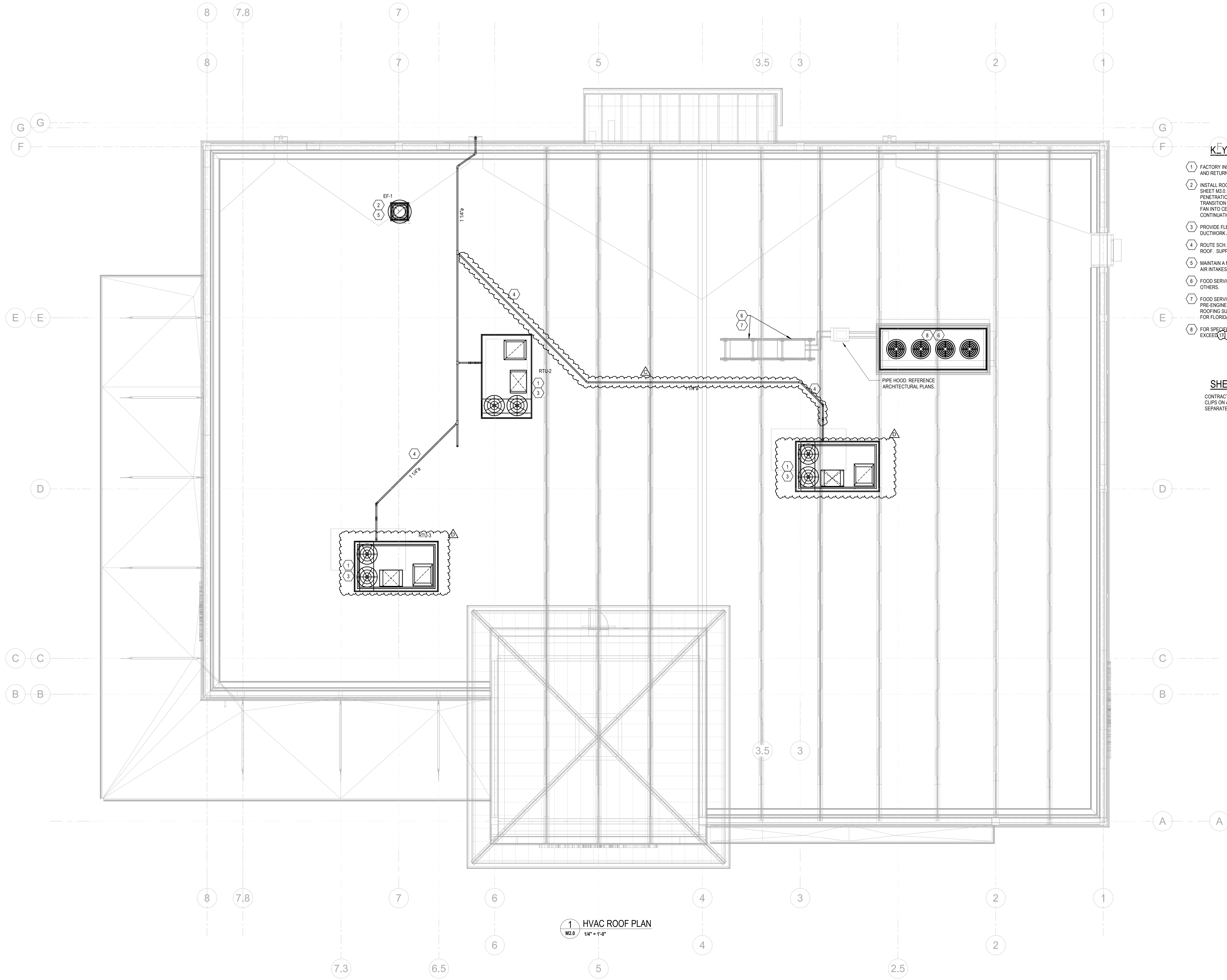
SHEET GENERAL NOTE:

A. MECHANICAL CONTRACTOR SHALL ADJUST ALL LINEAR SLOT DIFFUSERS TO A GENERALLY VERTICAL FLOW. ADJUSTMENT SHALL BE MADE SO AS TO AVOID AIRFLOWS ON SENSORS, REFRIGERATION CASES, OR OPEN FOOD REFRIGERATION EQUIPMENT.

HVAC LEGEND	
SYMBOL	DESCRIPTION
	NEW RECTANGULAR OR ROUND DUCT
	FLEXIBLE DUCT
	SUPPLY AIR DUCTWORK UP THROUGH PLAN
	RETURN AIR DUCTWORK UP THROUGH PLAN
	EXHAUST AIR DUCTWORK UP THROUGH PLAN
	90° ELBOW WITH TURNING VANES
	MANUAL AIR VOLUME CONTROL DAMPER
	4 WAY SUPPLY DIFFUSER
	3 WAY SUPPLY DIFFUSER
	2 WAY OPPOSED SUPPLY DIFFUSER
	2 WAY CORNER SUPPLY DIFFUSER
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	AIR CURTAIN
	LINEAR SLOT DIFFUSER WITH PLENUM
	COMBINATION TEMPERATURE/HUMIDITY SENSOR
	TEMPERATURE SENSOR
	CO2 SENSOR
	SWITCH
	TYPE MARK
	MECHANICAL EQUIPMENT TAG
	CONDENSATE PIPING
	ROOF MOUNTED EXHAUST FAN
	INLINE EXHAUST FAN
	PACKAGED ROOFTOP AIR CONDITIONER

No.	Description	Date
1	PERMIT SET	06/30/2022
2	PRE-BID SET	08/03/2022
3	MECHANICAL REV	08/03/2022
4	MECHANICAL REV	08/03/2022
5	MECHANICAL REV	08/03/2022
6	MECHANICAL REV	08/03/2022
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KEY NOTES:

- 1 FACTORY INSTALLED SMOKE DETECTOR IN MAIN SUPPLY AND RETURN OF EACH ROOFTOP UNIT.
- 2 INSTALL ROOF MOUNTED EXHAUST FAN PER DETAIL ON SHEET M3.0. COORDINATE EXACT LOCATION OF FAN PENETRATION WITH ARCHITECTURAL ROOF PLAN. TRANSITION GALVANIZED DUCTWORK AS NECESSARY FROM FAN INTO CEILING/VOID SPACE. SEE SHEET M1.0 FOR CONTINUATION.
- 3 PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL DUCTWORK AND MECHANICAL UNITS.
- 4 ROUTE SCH. 40 PVC CONDENSATE DRAIN PIPING ALONG ROOF. SUPPORT PIPING PER DETAIL ON SHEET M3.0.
- 5 MAINTAIN A MINIMUM 10' CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST TERMINATIONS ON ROOF.
- 6 FOOD SERVICE REFRIGERATION EQUIPMENT PROVIDED BY OTHERS.
- 7 FOOD SERVICE REFRIGERATION EQUIPMENT MOUNTED ON PRE-ENGINEERED RACK. REFER TO "CONDENSING UNIT ROOFING SUPPORT DETAIL" ON ARCHITECTURAL SHEETS FOR FLORIDA PRODUCT APPROVAL INFORMATION.
- 8 FOR SPECIFIC WIND LOADING REQUIREMENTS NOT TO EXCEED 174 MPH, SEE STRUCTURAL DRAWINGS.

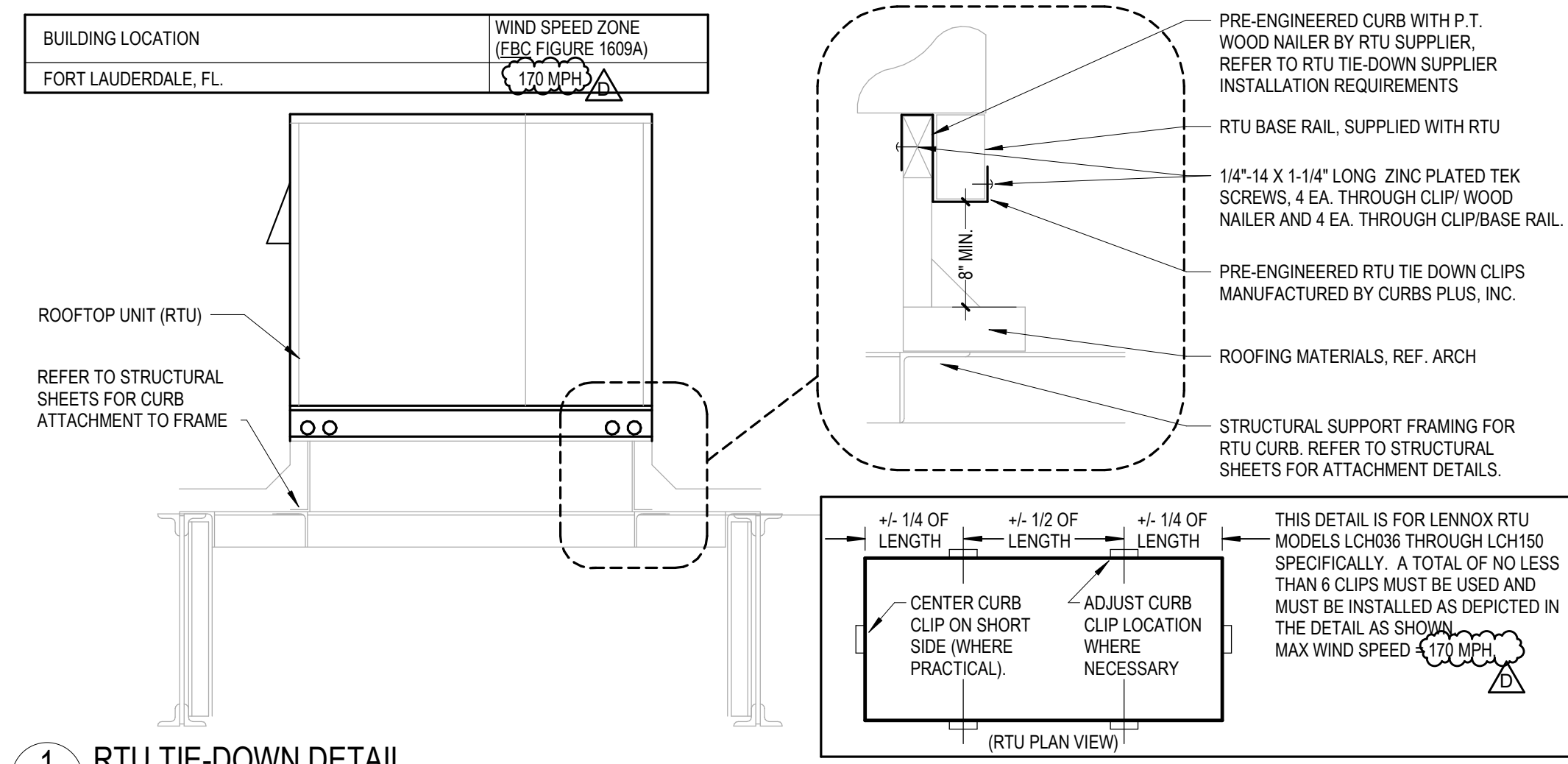
SHEET GENERAL NOTE:

CONTRACTOR RESPONSIBLE FOR USING CURBS PLUS CLIPS ON ALL RTUS. CLIPS ARE DELIVERED TO SITE AS SEPARATE PACKAGE.

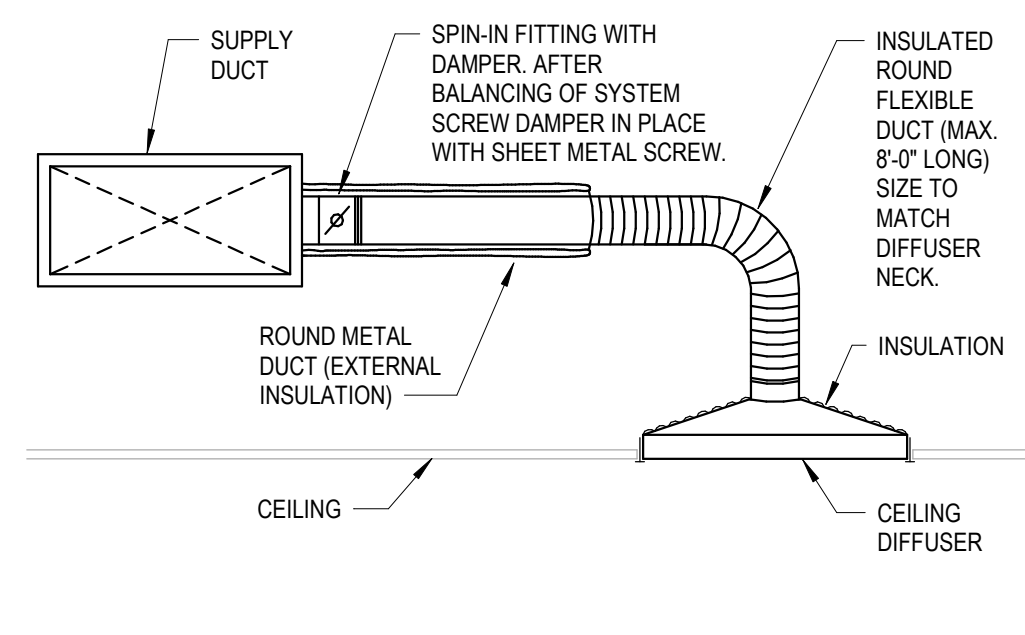
1 HVAC ROOF PLAN
M2.0
1/4" = 1'-0"

No.	Description	Date
PERMIT SET	06/30/2022	
PRE-BID SET	08/03/2022	
BID SET	08/25/2022	
CHANGES	08/25/2022	
Mech/Plumb Update	11/04/2022	
CONSTRUCTION SET	11/11/2022	

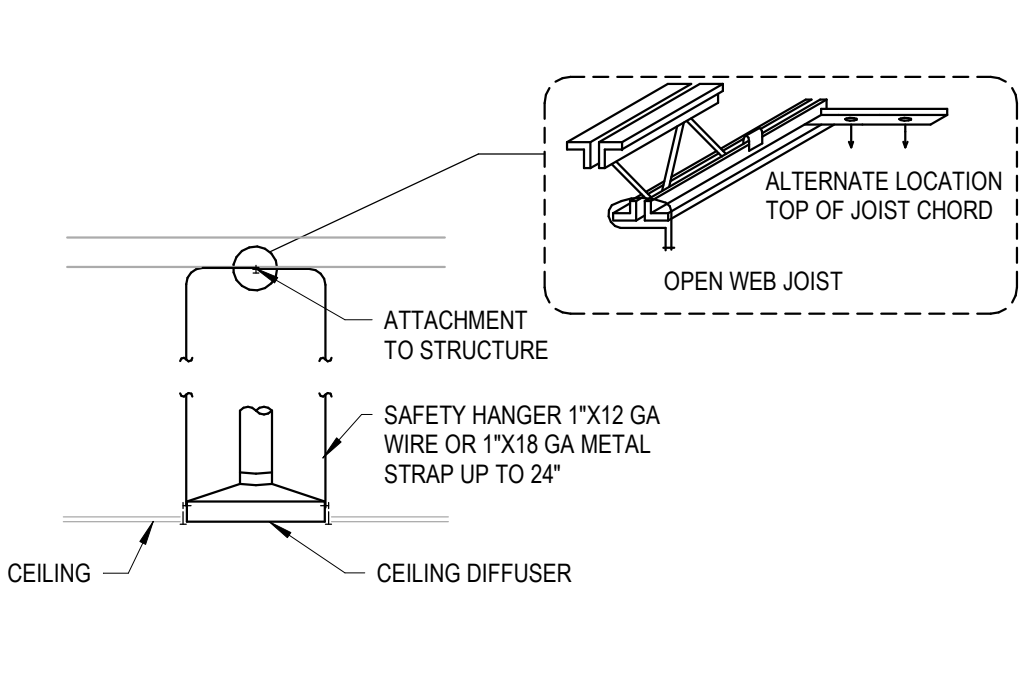
PROJECT NO. 2110033	DATE 06-03-2022	DRAWN JCF	CHECKED ESD
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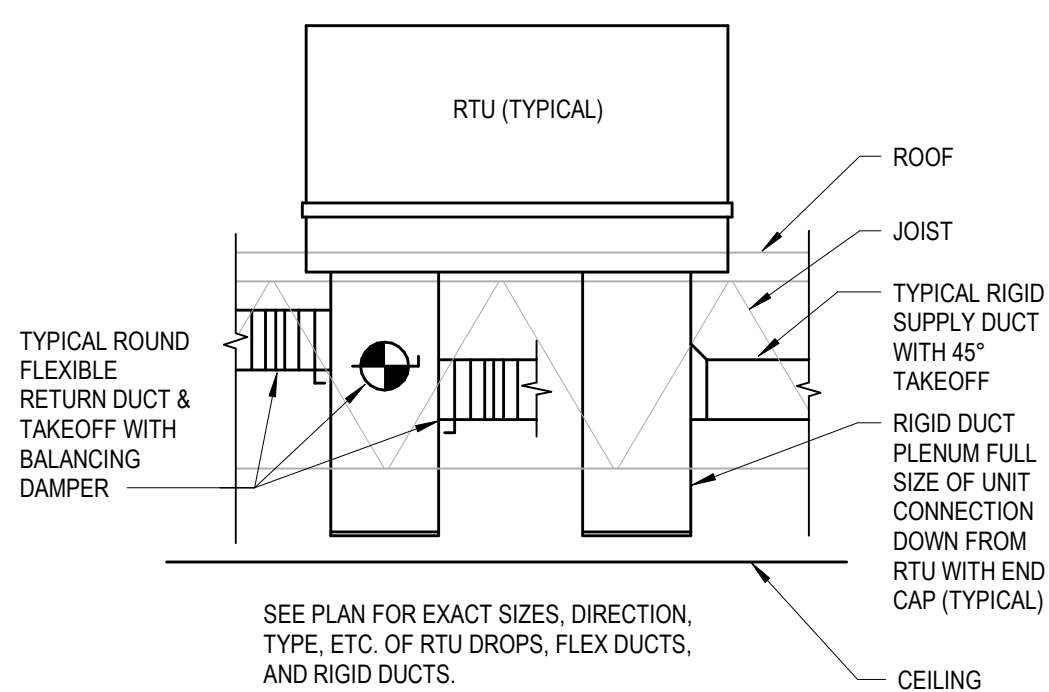
1 RTU TIE-DOWN DETAIL
M3.0 NOT TO SCALE



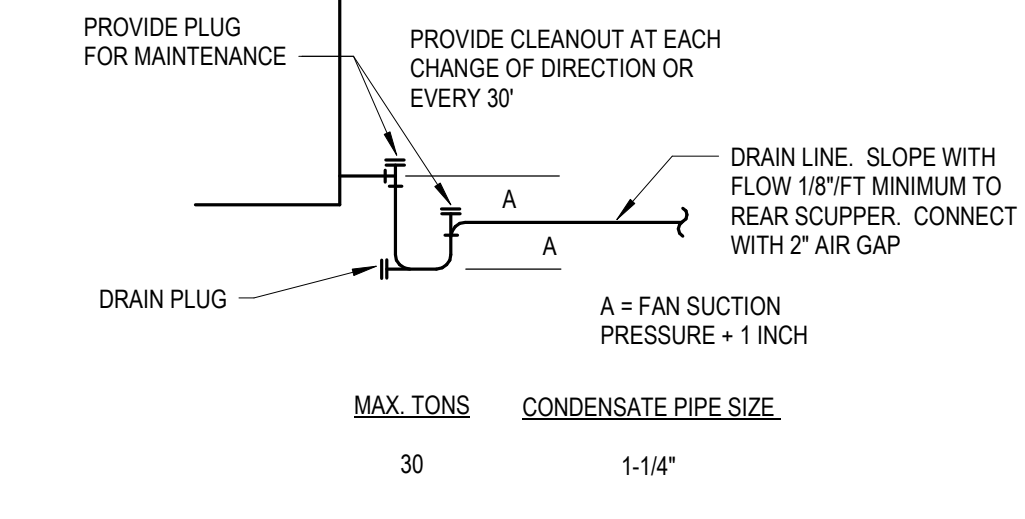
2 CEILING DIFFUSER RUNOUT DETAIL
M3.0 NOT TO SCALE



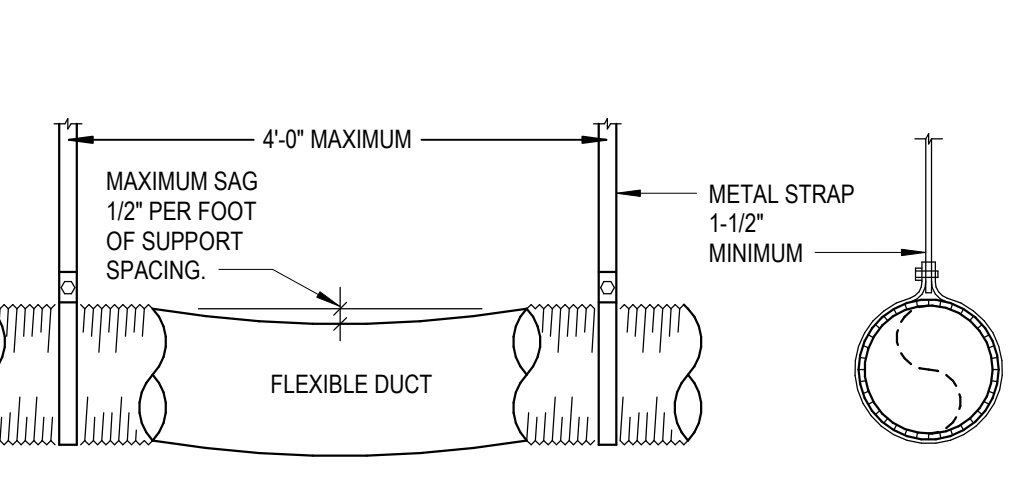
3 CEILING MOUNTED AIR DIFFUSER SUPPORT DETAIL
M3.0 NOT TO SCALE



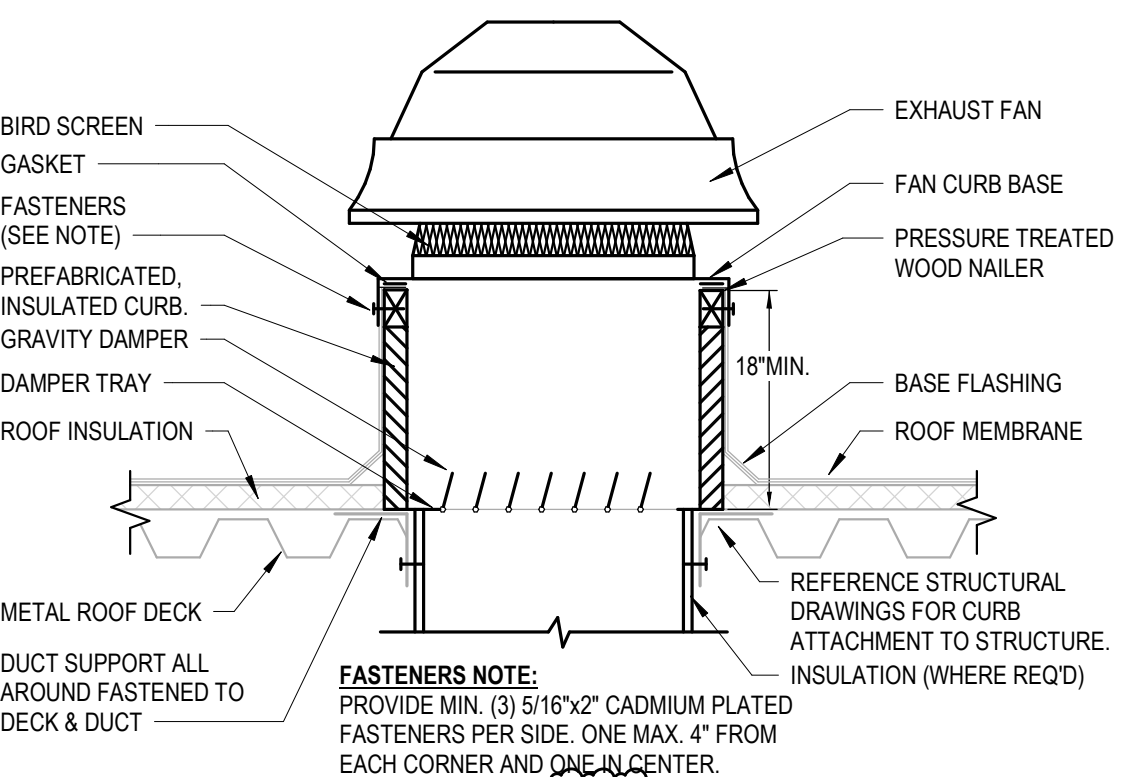
4 TYPICAL DUCT PLENUM DETAIL
M3.0 NOT TO SCALE



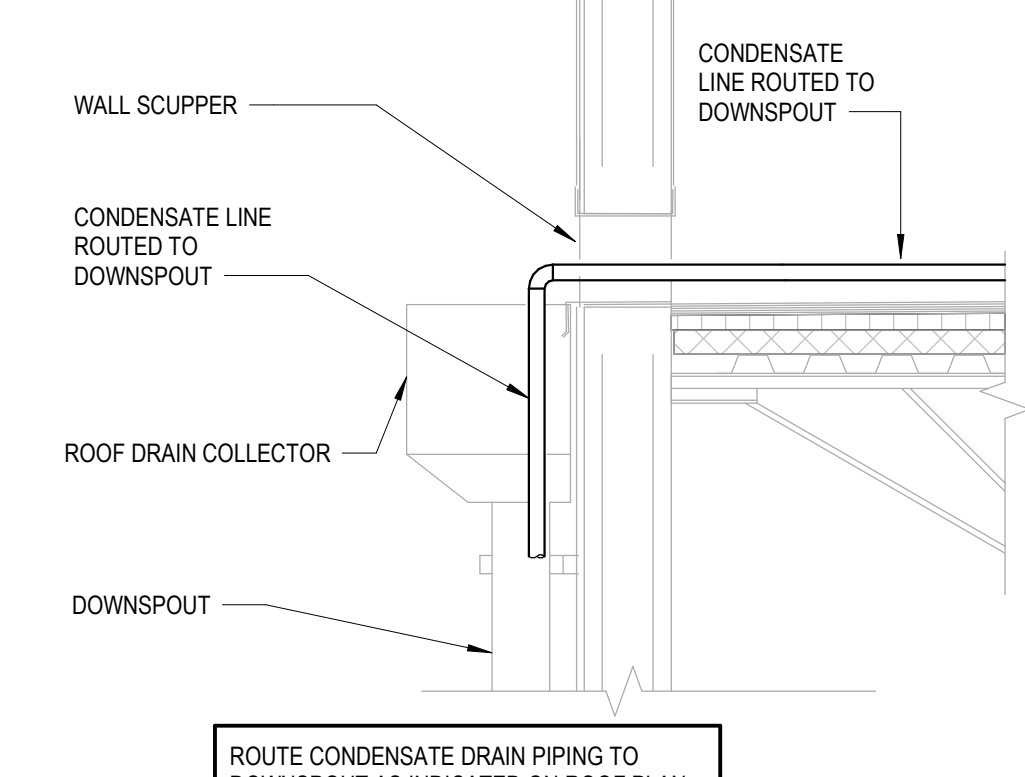
5 CONDENSATE DRAIN TRAP DETAIL
M3.0 NOT TO SCALE



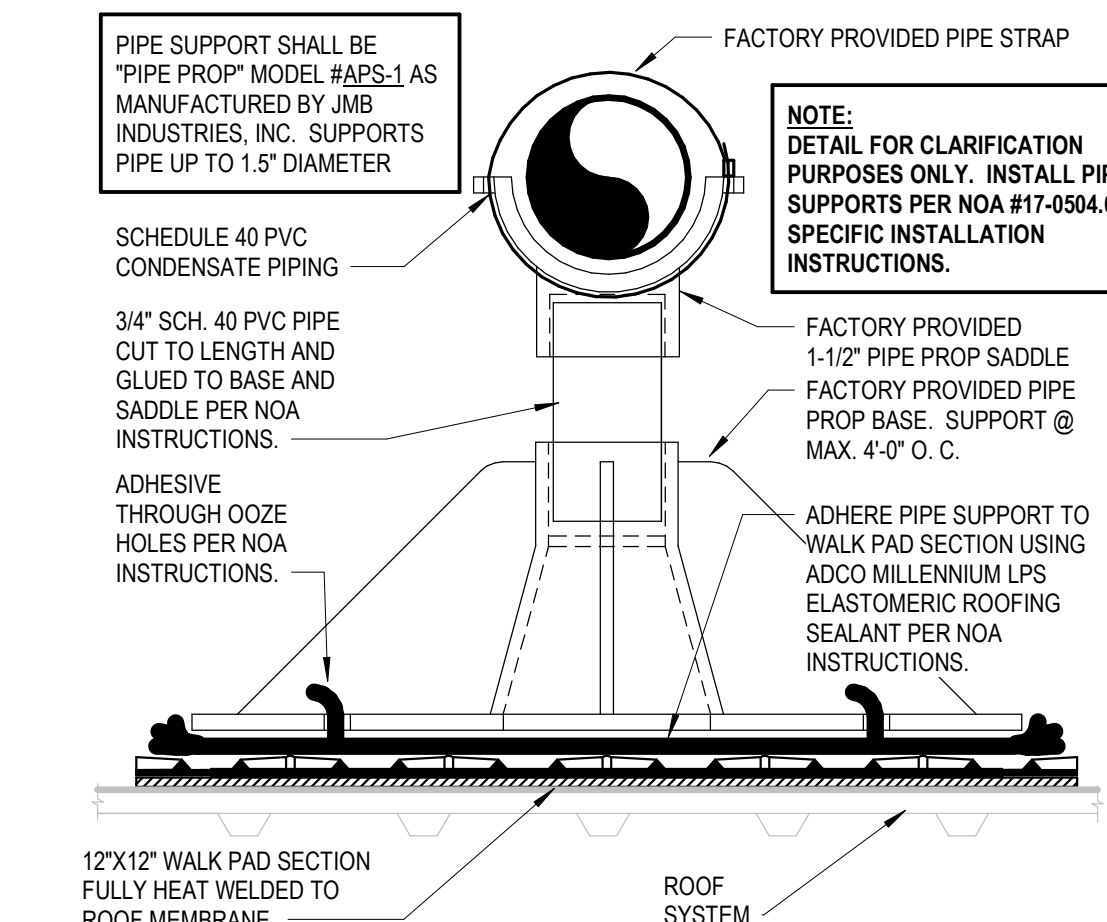
6 FLEX DUCT SUPPORT DETAIL
M3.0 NOT TO SCALE



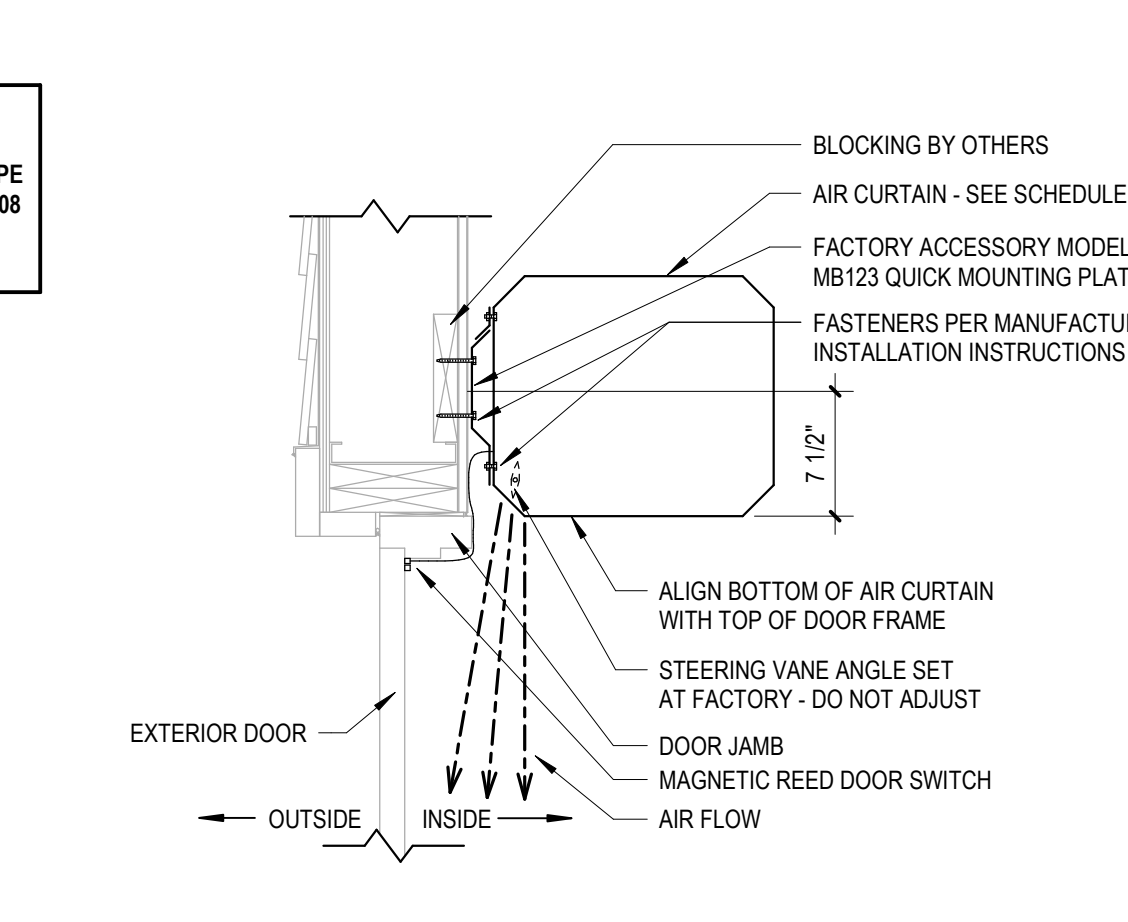
7 ROOF FAN MOUNTING DETAIL
M3.0 NOT TO SCALE



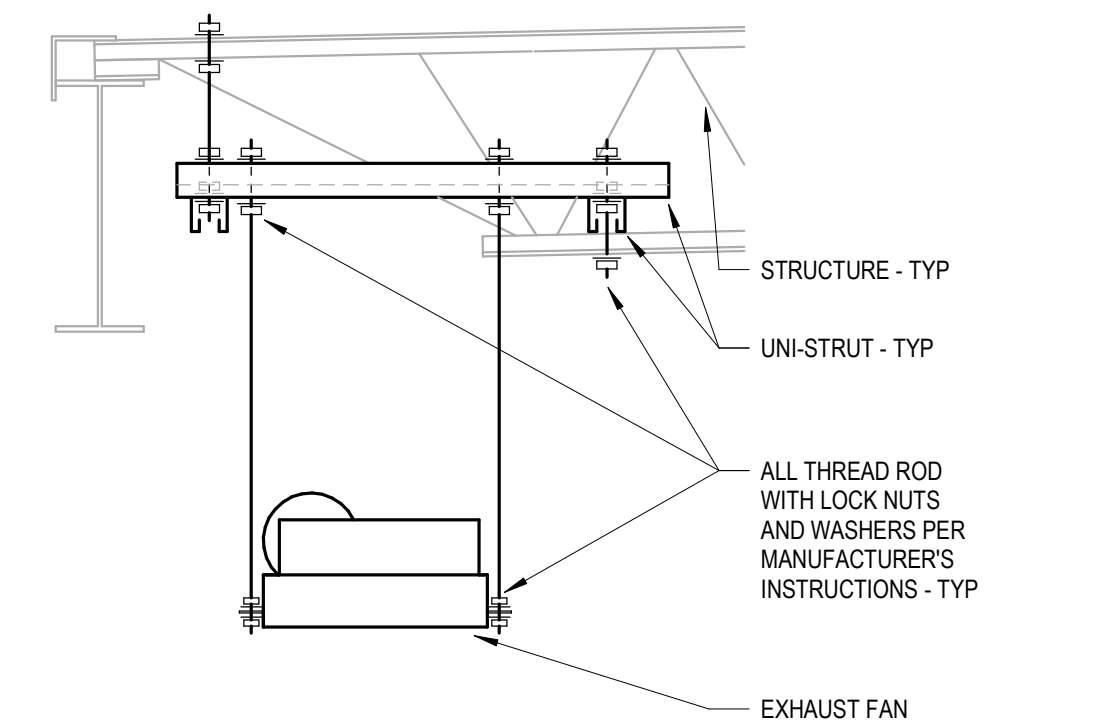
8 CONDENSATION TERMINATION DETAIL
M3.0 NOT TO SCALE



9 CONDENSATE PIPE ROOF SUPPORT DETAIL
M3.0 NOT TO SCALE



10 AIR CURTAIN INSTALLATION DETAIL
M3.0 NOT TO SCALE



11 INLINE FAN MOUNTING DETAIL
M3.0 NOT TO SCALE

HVAC GENERAL NOTES

- ALL MECHANICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE - MECHANICAL, SMACNA, UL, LOCAL CODES, MANUFACTURER'S RECOMMENDATIONS, AND ALL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK.
- SUPPLY AIR, RETURN AIR, OUTSIDE AIR AND EXHAUST AIR DUCTWORK SHALL BE SHEET METAL CONSTRUCTION. DUCT SHALL BE INSTALLED SECURELY SUPPORTED, HUNG OR SUSPENDED FROM THE STRUCTURE. JOINTS SHALL BE SEALED WITH 3\"/>

HVAC ROOFTOP UNIT SCHEDULE

MARK	AREA	SERVED	TONS	SUPPLY AIR FAN DATA		E.S.P. (IN.)	HP LISTED	CONTROL STAGES	VOLTAGE	PHASE	WGA	MCR	RTU WEIGHT (LBS.)	COOLING CAPACITY		BASIS OF DESIGN		MODEL	NOTES			
				OUTSIDE AIR (CFM)	RECYCLED AIR (CFM)									COOLING (MBH)	SENSIBLE (MBH)	EER (DEF/FMB/F)	MANUFACTURER			PRODUCT LINE		
RTU-1	RETAIL	8.5	3400	610	0.5	3.75	22.5	1	208V	3	70	1367	98.1	75.4	76.5	63.9	90/75	12.3	LENNOX ENLIGHT	LCT1024HE	1-20	
RTU-2	FOOD	10	4000	650	0.5	3.75	N/A	N/A	208V	3	54	70	1396	117	91.1	75.2	62.5	90/75	12.2	LENNOX ENLIGHT	LCT1204HE	2-20
RTU-3	RETAIL	7.5	3000	400	0.5	3.75	15	1	208V	3	50	50	1350	91.8	68.7	76.1	63.5	90/75	12.5	LENNOX ENLIGHT	LCT0924HE	2-20

- NOTES:
- PROVIDE CO2 SENSOR FOR INTERLINK WITH BUILDING AUTOMATION SYSTEM.
 - PROVIDE LENNOX HUMIDITROL HOT GAS REHEAT OPTION.
 - PROVIDE REMOTE WALL MOUNTED COMBINATION TEMPERATURE/HUMIDITY SENSOR MODEL 21W06.
 - REFER TO CONTROL SYSTEM NOTES FOR CONTROL COMPONENTS REQUIREMENTS.
 - PROVIDE 15 MINUTE ANTI-SHORT CYCLE TIMER.
 - PROVIDE THRU THE BASE ELECTRICAL AND SINGLE POINT CONNECTION.
 - PROVIDE WITH FACTORY 2\"/>

OUTSIDE AIR CALCULATION

AREA SERVED	AREA (SQFT)	CFM /SOFT	UNOCCUPIED MIN. O.A. REQUIRED	# PEOPLE	CFM /PERSON	PEOPLE O.A. REQ'D (CFM)	COMBINED O.A. REQ'D (CFM)	TOTAL O.A. SUPPLIED (CFM)	TOTAL O.A. DEFICIT (CFM)	
OFFICES	169	0.06	11	2	5	10	21	21	0	
RETAIL	2109	0.12	254	42	7.5	315	569	569	0	
CORRIDORS	45	0.06	3	0	0	0	3	3	0	
								RTU-1	593	610
								RTU-2	183	650
								RTU-3	266	400
FOOD SVC	805	0.18	145	5	7.5	38	183	183	0	
RETAIL	822	0.12	99	13	7.5	98	197	197	0	
WASH RM.	297	0.18	54	2	7.5	15	69	69	0	

- NOTES:
- OCCUPANCY LOAD VENTILATION RATES ARE BASED ON NET OCCUPABLE SPACE IN ACCORDANCE WITH THE 2020 FLORIDA MECHANICAL CODE TABLE 403.3.1.1.
 - ANTICIPATED NUMBER OF PEOPLE IS BASED ON AN OCCUPANCY LOAD FACTOR (# PEOPLE/SF) VALUE (BASED ON THE 2020 FLORIDA MECHANICAL CODE TABLE 403.3.1.1).

HVAC EXHAUST FAN SCHEDULE

MARK	CFM	EXT. STATIC PRESSURE	FAN TYPE	DRIVE TYPE	SONES	HP	FAN RPM	VOLTAGE	PHASE	UNIT POWER	BASIS OF DESIGN		MODEL	NOTES
											MANUFACTURER	PRODUCT LINE		
EF-1	1100 CFM	0.375 in-wg	DOWNBLAST	DIRECT	12.2	1/4	1550	120 V	1	1.0	LOREN COOK	ACED-120C15D	1.2	
EF-2	60 CFM	0.25 in-wg	DIRECT	0.6	28 WATTS	685	120 V	1	1	0.1	LOREN COOK	GN-148	2.3	

- NOTES:
- NO SUBSTITUTIONS PERMITTED--
 - PROVIDE WITH FACTORY DISCONNECT, FACTORY WIRED SOLID STATE SPEED CONTROLLER, 18\"/>

HVAC AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	DESCRIPTION	MOUNTING TYPE	MATERIAL	NECK SIZE	FACE SIZE	NOTES
CD-1	PRICE	AND	SUPPLY	LOUVERED FACE DIRECTIONAL DIFFUSER	LAY-IN	ALUMINUM	18\"/>		

- NOTES:
- NO SUBSTITUTIONS PERMITTED--
 - FOR LAY-IN CEILING PROVIDE WITH 18\"/>

HVAC AIR CURTAIN SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	NOZZLE CFM	HP	VOLTAGE	PHASE	MOUNTING HEIGHT	NOTES
AC-1	STAGING	POWERED AIRE	BCE-148	2155 CFM	0.5	120 V	1	7'-2"	1.4
AC-2	DELIVERY VESTIBULE	POWERED AIRE	BCE-148	2155 CFM	0.5	120 V	1	7'-2"	1.4

- NOTES:
- NO SUBSTITUTIONS PERMITTED--
 - MOUNT INSIDE BUILDING ABOVE DOOR AT 7'-2\"/>

RTU-1, 2, & 3 TEST AND BALANCE NOTES

- TEST AND BALANCE CONTRACTOR TO OBTAIN INITIAL BALANCE OF COOLING CFM FOR RTU USING FAN SHEAVE ADJUSTMENT TO WITHIN +/- 5% SCHEDULED COOLING CFM. PRODIGY CONTROLLER MAY BE USED FOR FINAL 5% TO OBTAIN SCHEDULED COOLING CFM.
- SET MINIMUM OUTSIDE AIR DAMPER POSITION FOR COOLING AND VERIFY OUTSIDE AIR CFM PER RTU SCHEDULE.
- NOT USED.
- NOT USED.
- USING PRODIGY CONTROLLER, VERIFY HEATING CFM EQUALS COOLING CFM.
- ALL PRODIGY CONTROLLER SETTINGS OTHER THAN THOSE MENTIONED ABOVE SHALL REMAIN AS THEIR DEFAULT VALUE AS SET FROM THE FACTORY.
- VERIFY POSITIVE BUILDING PRESSURE.

AIR BALANCE SCHEDULE

SYSTEM	CFM
RTU-1	+610
RTU-2	+650
RTU-3	+400
EF-1	-1100
EF-2	-60
BUILDING POSITIVE PRESSURE	+500

RTU-1, 2, & 3 SEQUENCE OF OPERATION

- SUPPLY AIR BLOWER SPEED UNIT HAS FOLLOWING SUPPLY AIR BLOWER SPEED SETTINGS THAT PERTAIN TO THIS INSTALLATION:
- COOLING AIR BLOWER SPEED
 - HEATING AIR BLOWER SPEED
- COOLING MODE
- Y1 DEMAND: COMPRESSOR 1 OPERATES AND SUPPLY AIR BLOWER OPERATES AT COOLING SPEED.
 - Y2 DEMAND: ALL COMPRESSORS OPERATE AND SUPPLY AIR BLOWER OPERATES AT COOLING SPEED.
- DEHUMIDIFICATION MODE
- IF THE UNIT RECEIVES A CALL FOR DEHUMIDIFICATION, ECONOMIZER FREE COOLING IS LOCKED OUT (ON UNITS EQUIPPED WITH ECONOMIZER).
 - CALL FOR DEHUMIDIFICATION, NO Y1, Y2 DEMAND: 1ST STAGE COMPRESSOR OPERATES, SUPPLY AIR BLOWER OPERATES AT COOLING SPEED, AND THE REHEAT VALVE IS ENERGIZED.
 - Y1 DEMAND WITH A CALL FOR DEHUMIDIFICATION: ALL COMPRESSORS OPERATE, SUPPLY AIR BLOWER OPERATES AT COOLING SPEED AND THE REHEAT VALVE IS ENERGIZED.
 - Y2 DEMAND WITH A CALL FOR DEHUMIDIFICATION: ALL COMPRESSORS OPERATE, SUPPLY AIR BLOWER OPERATES AT COOLING SPEED, AND THE REHEAT VALVE IS DE-ENERGIZED.
- HEATING MODE (ELECTRIC HEAT)
- W1 DEMAND: 1ST STAGE ELECTRIC HEAT IS ENERGIZED AND THE SUPPLY AIR BLOWER OPERATES AT HEATING SPEED.
 - W2 DEMAND: 2ND STAGE ELECTRIC HEAT IS ENERGIZED AND THE SUPPLY AIR BLOWER OPERATES AT HEATING SPEED.
- MODULATING OUTDOOR AIR DAMPER
- THE MINIMUM DAMPER POSITION FOR 'OCCUPIED HIGH BLOWER' IS ADJUSTED DURING UNIT SETUP TO PROVIDE MINIMUM FRESH AIR REQUIREMENTS PER RTU SCHEDULE.
 - WHEN SUPPLY AIR BLOWER IS OFF, THE OUTDOOR AIR DAMPER IS CLOSED.
 - WHEN UNIT IS IN OCCUPIED MODE AND SUPPLY AIR BLOWER IS OPERATING, THE OUTDOOR AIR DAMPER IS AT MINIMUM 'HIGH BLOWER' POSITION.

2600 Maitland Center Parkway
Suite #200
Maitland, FL 32751
P (407) 664-9100
F (407) 664-9101
C-p.com

CUHACI PETERSON

CLIENT NAME
WAWA
260 WEST BALTIMORE PIKE
WAWA, PENNSYLVANIA 19063

PROJECT NAME
WAWA FBSEHL v2012.2
STORE #5412
100 SOUTH PINE ISLAND ROAD,
PLANTATION, FL 33324

SHEET TITLE
HVAC SCHEDULES, NOTES AND DETAILS

Revision Schedule

No.	Description	Date
1	PERMIT SET	06/30/2022
2	PRE-BID SET	08/03/2022
3	BID SET	08/25/2022
4	CHANGES	08/25/2022
5	MECHANICAL UPDATE	11/04/2022
6	CONSTRUCTION SET	11/11/2022

PROJECT NO.
210633

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