

1 HVAC FLOOR PLAN
M1.0 1/4" = 1'-0"

KEY NOTES:

- 1 REMOTE TEST STATIONS FOR SMOKE DETECTORS FOR RTU-1, 2 & 3. TEST STATIONS TO BE MOUNTED ON THE MANAGERS OFFICE WALL. SECURITY CONTRACTOR SHALL WIRE STU FACTORY MOUNTED SMOKE DETECTORS TO SECURITY WIRE 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 WAWA 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 DUCTWORK DOWN FROM FAN INTO CEILING/JOIST SPACE, AND CONNECT TO CEILING GRILLES.
- 4 REFER TO TYPICAL DUCT PLENUM DETAIL ON SHEET M3.0.
- 5 DUCT TAKE OFF ON TOP OF DUCT. PROVIDE DAMPER AFTER TAKE OFF.
- 6 COORDINATE DUCT WITH STRUCTURE IN THIS LOCATION. COORDINATE TAKEOFF LOCATIONS WITH TRUSS WEB OPENINGS.
- 7 PROVIDE SURFACE MOUNT ADAPTER FRAME TO ALLOW ACCESS TO CEILING ABOVE THROUGH DIFFUSER OPENING. SEE AIR DEVICE SCHEDULE.
- 8 ROUTE DUCT UNDER STRUCTURAL MEMBERS AT THIS LOCATION.
- 9 COORDINATE AND ROUTE MAIN DUCT HIGH IN JOIST SPACE. AVOID CONFLICTS WITH UTILITIES.
- 10 TRANSFER AIR DUCT ASSEMBLY.
- 11 PROVIDE SEALED 20" x 20" PLENUM BOX ASSEMBLY ABOVE TRANSFER GRILLES TO ALLOW FLEX TRANSFER DUCT CONNECTIONS.

PERMITTING NOTE:

ALL REFRIGERATION EQUIPMENT INCLUDING WALK-IN COOLERS AND REFRIGERATORS WILL BE SUBMITTED UNDER A SEPARATE PERMIT.

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.
- B. IN ADDITION TO SPECIFICATIONS REQUIREMENTS FOR TESTING AND BALANCING SUBMIT TESTING AND BALANCING REPORT WITH FLOOR PLAN INDICATING LOCATION OF INLETS AND OUTLETS WITH TAGS THAT MATCH THE TESTING AND BALANCING REPORT.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING VOLUME DAMPERS IN LOCATIONS ACCESSIBLE TO ALLOW FOR BALANCING.

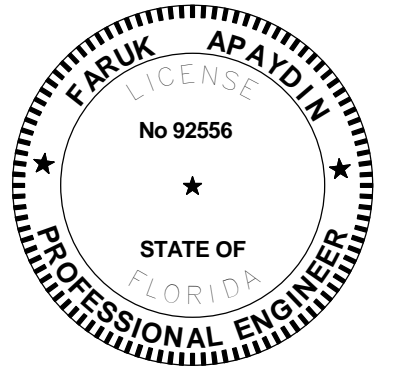
PROFESSIONAL OF RECORD: FARKH ABAYON
LICENSE NO. 92556
THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED...

ON THE DATE WITHIN THE DIGITAL SIGNATURE ABOVE, PRINTED COPIES
OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE
ELECTRONIC COPY IS THE OFFICIAL RECORD. THE ORIGINAL SHALL BE
MAINTAINED BY THE ENGINEER OF RECORD.

AECOM
AECOM Technical Services, Inc.
300 BROADWAY DRIVE, SUITE 250
ROCKFIELD LA 70767
973.883.8500 FAX 973.883.8601
http://www.aecom.com

CLIENT NAME
WAWA INC.
260 W. BALTIMORE PIKE
WAWA PA 19063

PROJECT NAME
F110 PROTOTYPE V2024.03
WAWA STORE #5489
NW JOHN SING Pkwy AND ROCKY BAYOU DR.
NICEVILLE, FL 32576



RELEASE	DATE
ISSUED FOR PERMIT	09/21/2025
REV. A - ISSUED FOR BID	09/23/2025
CONSTRUCTION	08/15/2025

PROTOTYPE	DATE	ISSUED FOR	BY	CHECKED	JOB
F110 PROTOTYPE	09/21/2025	ISSUED FOR BID	FARKH		

5489
NICEVILLE, FL
Wawa
M1.0

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-233.004, F.A.C.

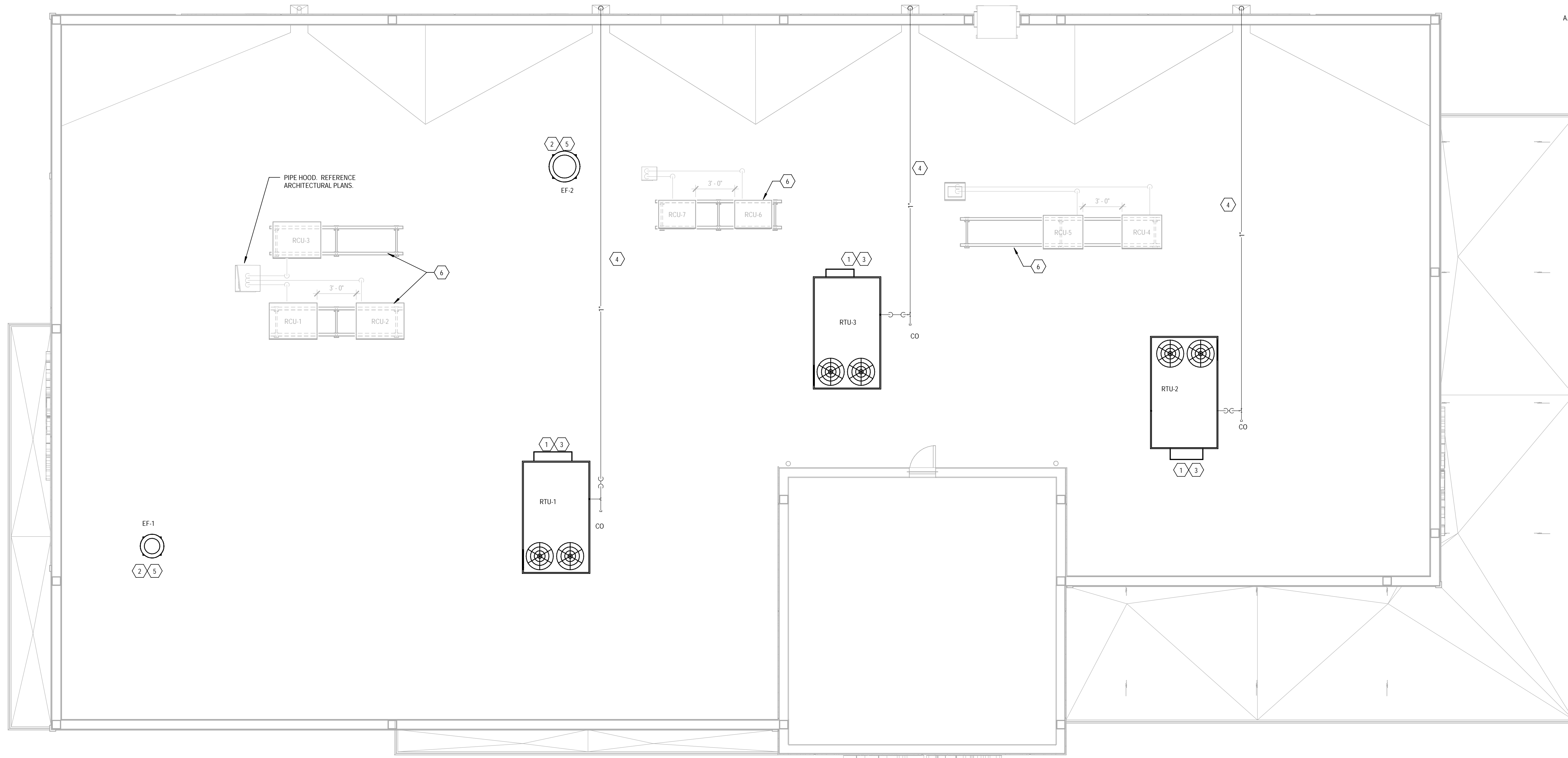
SHEET TITLE
HVAC FLOOR PLAN

KEY NOTES:

1. FACTORY INSTALLED SMOKE DETECTORS 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/JOIST 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 1' CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST TERMINATIONS ON ROOF.
6. FOOD SERVICE REFRIGERATION EQUIPMENT PROVIDED BY OTHERS.

SHEET GENERAL NOTE:

- A. CONTRACTOR RESPONSIBLE FOR USING CURBS PLUS CLIPS ON ALL RTU'S. CLIPS ARE DELIVERED TO SITE AS SEPARATE PACKAGE.



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

PROFESSIONAL OF RECORD: FARUK ABAYON
LICENSE NO. 92556
THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

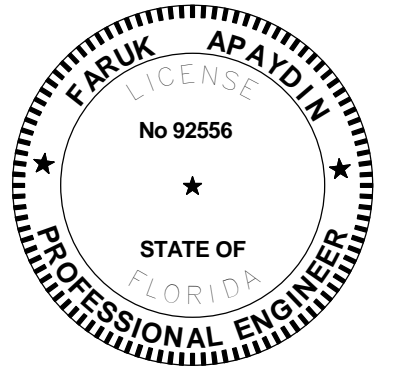
ON THE DATE WITHIN THE DIGITAL SIGNATURE ABOVE, PRINTED COPIES
OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE
SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

AECOM
AECOM Technical Services, Inc.
300 BROADACRES DRIVE, SUITE 250
ROCKFIELD HILL, AL 37073
973.883.8500 FAX 973.883.8601
http://www.aecom.com

CLIENT NAME
WAWA INC.
260 W. BALTIMORE PIKE
WAWA, PA 19063

PROJECT NAME
FT10 PROTOTYPE V2024.03
WAWA STORE #5489
NW JOHN SINGS PAVY AND ROCKY BAYOU DR.
NICEVILLE, FL 32576

SHEET TITLE
HVAC ROOF PLAN



RELEASE	DATE
ISSUED FOR PERMIT	09/21/2025
REV. A - ISSUED FOR BID	09/22/2025
ISSUED FOR CONSTRUCTION	08/15/2025

PROTOTYPE FT10 PROTYPE V2024.03	DATE 09/21/2025
PROJECT NO. 6033350-589	ISSUED FOR CONSTRUCTION
DESIGNER FARUK	CHECKED JUD

5489
NICEVILLE, FL
Wawa
M2.0

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-233.004, F.A.C.

OUTSIDE AIR CALCULATION									
AREA SERVED	AREA (SQFT)	PEOPLE / 1000 SQFT	# PEOPLE	CFM PERSON	PEOPLE O.A. RECD (CFM)	CFM SQFT	SOFT OUTSIDE AIR (CFM)	TOTAL CFM CALCULATED	CFM SUPPLIED
OFFICE	95	5	1	5	5	0.06	6	11	
RETAIL RIGHT	1206	15	10	7.5	143	0.12	145	288	
WASHROOM	135	20	3	7.5	23	0.12	17	40	
									RTU-1 339 600
FOOD SVC	440	20	9	7.5	68	0.12	53	121	
CORTEX	240	20	5	7.5	38	0.12	29	67	
BACKROOM	330	20	7	7.5	53	0.12	40	93	
									RTU-2 281 850
STAGING	65	2	1	10	10	0.12	7	17	
RESTROOM H	100	-	-	-	-	0.06	6	6	
RETAIL LEFT	690	15	11	7.5	83	0.12	83	166	
DELIVERY HAL	105	5	1	5	10	0.06	7	12	
VESTIBULE	115	10	2	5	10	0.06	7	17	
CHECKOUT	500	15	8	7.5	60	0.12	60	120	
									RTU-3 347 750

NOTES:
 1. OCCUPANCY LOAD VENTILATION RATES ARE BASED ON NET OCCUPABLE SPACE IN ACCORDANCE WITH THE JURISDICTION'S LATEST ACCEPTED VERSION OF THE FLORIDA MECHANICAL CODE, TABLE 403.3.1.1.
 2. ANTICIPATED NUMBER OF PEOPLE IS BASED ON AN OCCUPANCY LOAD FACTOR (P PEOPLES) VALUE BASED ON THE JURISDICTION'S LATEST ACCEPTED VERSION OF THE FLORIDA MECHANICAL CODE, TABLE 403.3.1.1.

AIR BALANCE SCHEDULE	
SYSTEM	CFM
RTU-1	+600
RTU-2	+850
RTU-3	+750
EF-1	-450
EF-2	-1400
BUILDING POSITIVE PRESSURE	+350

- ### HVAC GENERAL NOTES
- ALL MECHANICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE JURISDICTION'S LATEST ACCEPTED VERSION OF THE 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" WIDE GLASS FABRIC TAPE OR FOSTER 3000 MASTIC OR EQUAL. DUCT CONSTRUCTION, SEALING AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE JURISDICTION'S LATEST ACCEPTED VERSION OF THE FLORIDA BUILDING CODE - MECHANICAL AND THE JURISDICTION'S LATEST CODE ACCEPTED SMACNA STANDARDS.
 - OUTSIDE AIR INTAKES (ROOF TOP UNITS, GRAVITY ROOF VENTS, LOUVERS) SHALL MAINTAIN A MINIMUM OF 10'-0" FROM ANY EXHAUST OR SANITARY VENT.
 - PROVIDE ALL MECHANICAL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED SERVICE AREA CLEARANCES.
 - ALL ROOF TOP UNITS SHALL BE CONSTRUCTED AND INSTALLED TO WITHSTAND LOCAL WIND LOAD DESIGN.
 - SMOKE DETECTORS SHALL BE FURNISHED AND INSTALLED IN RTU BY THE UNIT MANUFACTURER. WIRED TO THE KEY SWITCH BY THE MECHANICAL CONTRACTOR, AND WIRED TO THE FIRE ALARM BY THE FIRE ALARM CONTRACTOR. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, NFPA 90A, STANDARD FOR INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, THE JURISDICTION'S LATEST ACCEPTED VERSION OF THE FLORIDA BUILDING CODE - MECHANICAL, AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A VISIBLE/AUDIIBLE NOTIFICATION PANEL. MAKE: SYSTEM SENSOR SSK4SI OR EQUAL, COMPATIBLE WITH BUILDING FIRE ALARM SYSTEM.
 - PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
 - HVAC CONTRACTOR IS RESPONSIBLE FOR ANY ADDED ELECTRICAL COSTS WHICH MAY RESULT FROM SUBSTITUTED EQUIPMENT.
 - PROVIDE EXTERNAL DUCT INSULATION FOR SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK. DUCTWORK INSULATION SHALL BE FOIL FACED FIBERGLASS DUCT WRAP WITH A MINIMUM THERMAL RESISTANCE (R) OF 4.0. INSULATION SHALL HAVE VAPOR BARRIER. INSTALL PER MFR REQUIREMENTS.
 - COORDINATE CEILING MOUNTED DIFFUSERS, REGISTERS, AND GRILLES AND OTHER CEILING MOUNTED EQUIPMENT WITH LIGHTING FIXTURES.
 - TURNING VANES SHALL BE PROVIDED IN ALL SUPPLY DUCT RECTANGULAR ELBOWS WITH ANGLES BETWEEN 15 DEGREES AND LESS THAN 90 DEGREES PER THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS MANUAL.
 - DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
 - DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.
 - UNLESS OTHERWISE NOTED, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE. COORDINATE DUCT ELEVATION WITH STORM LEADERS, WATER PIPING, SANITARY DRAINS AND MAJOR ELECTRICAL CONDUITS.
 - CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT & MATERIALS. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS AND CLEARANCE REQUIREMENTS FOR SERVICING OF EQUIPMENT.
 - VERIFY VOLTAGE WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
 - PROVIDE A TRAP IN ALL CONDENSATE PIPING SERVING AIR HANDLING UNITS AND ROOF TOP UNITS. SLOPE CONDENSATE LINE 1/8" PER FOOT. CONDENSATE LINES SHALL BE PVC SCH. 40. ALL CONDENSATE DRAIN PIPING SHALL BE PROPERLY SUPPORTED. SEE "CONDENSATE DRAIN TRAP" DETAIL.
 - GUARANTEE FOR ONE YEAR AFTER DATE OF ACCEPTANCE BY THE OWNER. ALL EQUIPMENT, MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECT.
 - DO NOT CUT STRUCTURAL STEEL WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
 - FLEXIBLE AND RIGID ROUND DUCT TAKE-OFFS FOR DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 8'-0". FLEXIBLE DUCT SHALL BE THERMAFLEX TYPE MKC OR EQUAL. FLEXIBLE DUCT SHALL BE INSULATED FIBERGLASS, R-4, CLASS 1, UL181 LISTED AND COMPLY WITH NFPA 90A AND NFPA 90B.
 - ALL WALL MOUNTED TEMPERATURE, HUMIDITY, AND CO2 SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 5'4" ABOVE FINISHED FLOOR TO THE TOP UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF THE WALL MOUNTED SENSORS SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF SENSORS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OR THEIR REPRESENTATIVE IN THE FIELD.
 - PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS ON THE DISCHARGE AND ENTERING SIDES OF PACKAGED ROOF TOP UNITS, FANS, AND OTHER VIBRATING EQUIPMENT TO WHICH DUCTWORK IS ATTACHED.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES' INSTALLATION SCHEDULES. COORDINATE WORK SCHEDULE WITH GENERAL CONTRACTOR.
 - REFER TO ARCHITECTURAL DRAWINGS FOR ALL RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. CHASE AND WALL PENETRATIONS INTENDED FOR DUCTWORK AND PIPING SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
 - MECHANICAL EQUIPMENT, DUCTWORK AND PIPING IS SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. FIELD VERIFY FINAL LOCATIONS TO INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
 - WHEN THERE IS MORE THAN ONE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS. THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL THOROUGHLY ACCOUNT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS BEFORE SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF HERSELF WITH THE PLANS.
 - CONTRACTOR TO ALLOW SUFFICIENT TIME (APPROXIMATELY 2 WEEKS) FOR EQUIPMENT REVIEW. CONTRACTOR SHALL SUBMIT THE FOLLOWING EQUIPMENT FOR REVIEW (1 HARD COPY) PRIOR TO ORDERING AND INSTALLATION: ROOF TOP UNITS, AIR HANDLING UNITS AND AIR COOLED CONDENSERS, DIFFUSERS AND REGISTERS, EXHAUST FANS AND MAKE UP AIR FANS, DUCT INSULATION, DUCT CONSTRUCTION STANDARDS.
 - AFTER THE HEATING AND AIR CONDITIONING SYSTEM INSTALLATIONS ARE COMPLETE, THE CONTRACTOR SHALL HAVE EACH SYSTEM TESTED, ADJUSTED, AND BALANCED BY AN INDEPENDENT TESTING AND BALANCING CONTRACTOR. SET SPECIFICATIONS FOR TESTING AND BALANCING CONTRACTOR CERTIFICATIONS AND REQUIREMENTS. UPON COMPLETION OF TEST AND BALANCE OF ALL SYSTEMS, THE CONTRACTOR SHALL PRESENT THE OWNER AND ARCHITECT WITH A WRITTEN TEST AND BALANCE REPORT IN A TIMELY MANNER PER SPECIFICATIONS.

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
	2 WAY OPPOSED SUPPLY DIFFUSER
	2 WAY CORNER SUPPLY DIFFUSER
	1 WAY SUPPLY DIFFUSER
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	AIR CURTAIN
	LINEAR SLOT DIFFUSER WITH PLENUM
	COMBINATION TEMPERATURE/HUMIDITY SENSOR
	TEMPERATURE SENSOR
	CO2 SENSOR
	TYPE MARK CFM
	MECHANICAL EQUIPMENT TAG
	CONDENSATE PIPING
	INLINE MOUNTED EXHAUST FAN
	ROOF MOUNTED EXHAUST FAN
	PACKAGED ROOFTOP AIR CONDITIONER

ABBREVIATIONS	
DB°F DRY BULB DEGREES FAHRENHEIT	LD LINEAR DIFFUSER
AC AIR CONDITIONING	LP LOW PRESSURE
ARC AIR CURTAIN	MAXIMUM
A.F.F. ABOVE FINISHED FLOOR	MBH1000 BTU PER HOUR
BAS BUILDING AUTOMATION SYSTEM	MCAMMINUM CIRCUIT AMPACITY
BTU BRITISH THERMAL UNIT	MIN MINIMUM
CD CEILING DIFFUSER	MOCP MAXIMUM OVER CURRENT PROTECTION
CFM CUBIC FEET PER MINUTE	MPMHLES PER HOUR
CO2 CARBON DIOXIDE	O.A. OUTSIDE AIR
O.C. ON CENTER	D DIAMETER
EER ENERGY EFFICIENCY RATIO	PVC POLYVINYL CHLORIDE
EF EXHAUST FAN	REQD. REQUIRED
FFM FAN FORCED HEATER	RTU PACKAGED ROOF TOP HVAC UNIT
G GRILLE	SCH SCHEDULE
G.C. GENERAL CONTRACTOR	SEER SEASONAL ENERGY EFFICIENCY RATIO
GFCl GROUND FAULT CIRCUIT INTERRUPTER	SF SQUARE FOOT
HP HORSEPOWER	TYP TYPICAL
IEER INTEGRATED ENERGY EFFICIENCY RATIO	V VOLTS
IN INCHES WATER COLUMN	W/ WITH
LBS POUNDS	WB°F WET BULB DEGREES FAHRENHEIT

LENNOX SETUP PARAMETERS / FLORIDA STORES (R2)
 UNIT ID CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):

- BACNET CONFIGURATION: GO TO SETTINGS-GENERAL-CONFIGURATION I01 POSITION
 - SET TO "B"
 - NETWORK CONFIGURATION: GO TO SETUP-NETWORK INTEGRATION, SET TO BACNET
 - CONTROL MODE: SET CONTROL MODE TO ROOM SENSOR, CO2, TEMP & HUMIDITY (PER UNIT, AS NEEDED).

INDIVIDUAL PARAMETER CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):

- PARAMETER 105 DEHUMID MODE: 7 NO CONDITIONS
- PARAMETER 106 DEHUMID SETPOINT: 50, THIS IS A CENTERED SET POINT (+/-)
- PARAMETER 107 DEHUMID DEADBAND: 3 (DEFAULT) THIS IS THE ACTUAL +/- VALUE
- PARAMETER 117 CO2 DAMPER MAX OPEN %: 50
- PARAMETER 118 CO2 START OPEN PPM: 1200
- PARAMETER 119 CO2 FULL OPEN PPM: 1500
- PARAMETER 137 OCCHEAT SET POINT: 68 (BACK UP)
- PARAMETER 139 OCC COOLING SET POINT: 72 (BACK UP)
- PARAMETER 154 OCC BLOWER MODE: ON CONTINUOUS 1

CFM VALUES / MSAV FAN SPEEDS (AIR BALANCER TO DEFINE / IF APPLICABLE):

- HEAT CFM VALUE PER THE HVAC SCHEDULE
- HIGH COOL CFM VALUE: PER THE HVAC SCHEDULE
- LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE
- VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE

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

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

HVAC AIR DEVICE SCHEDULE									
TYPE MARK	MANUFACTURER	MODEL	SERVICE	DESCRIPTION	MOUNTING TYPE	MATERIAL	NECK SIZE	FACE SIZE	NOTES
CD-1	PRICE	AMD	SUPPLY	LOUVERED FACE DIRECTIONAL DIFFUSER	SURFACE	ALUMINUM	18"X18"	24"X24"	6.7
CD-2	PRICE	AMD	SUPPLY	LOUVERED FACE DIRECTIONAL DIFFUSER	LAY-IN	ALUMINUM	18"X18"	24"X24"	1.6.7
CD-4	PRICE	AMD	SUPPLY	LOUVERED FACE DIRECTIONAL DIFFUSER	SURFACE	ALUMINUM	6"X6"	NECK-3"3/4"	6.7
G-1	PRICE	630FF	RETURN/BAKEXH1	LOUVERED FACE FILTER RETURN GRILLE	LAY-IN	ALUMINUM	20"X20"	NECK-3"3/4"	4
G-3	PRICE	630FF	EXHAUST	LOUVERED FACE FILTER RETURN GRILLE	SURFACE	ALUMINUM	8"X8"	NECK-3"3/4"	4
G-4	PRICE	630FF	EXHAUST	LOUVERED FACE FILTER RETURN GRILLE	SURFACE	ALUMINUM	6"X6"	NECK-3"3/4"	4
LD-1	PRICE	TB04	SUPPLY	48" INSULATED PLENUM W/ (4) 1" SLOTS	LAY-IN	ALUMINUM	SEE PLAN	N/A	4

NOTES:
 -NO SUBSTITUTIONS PERMITTED--
 1. FOR LAY-IN CEILINGS PROVIDE WITH 18"X18" FULL FACE APPEARANCE DIFFUSER NECK. PROVIDE WITH FACTORY SQUARE TO ROUND NECK ADAPTER MODEL "SR". ROUND NECK SIZE SHALL BE EQUAL TO FLEX SIZE SERVING DIFFUSER.
 2. PROVIDE WITH PLENUM INTERNALLY LINED WITH COATED FIBERBOARD. EXTERNALLY INSULATE PLENUM UPON INSTALLATION WITH DUCT WRAP INSULATION.
 3. PROVIDE WITH CENTER NOTCH OPTION (CM) AS REQUIRED WHEN USED IN 24" T-BAR CEILING.
 4. "OR" STYLE (1/4 TURN FASTENERS ONLY) - OMIT HINGE. FILTER TYPE RETURN GRILLES PROVIDED SOLELY FOR MAINTENANCE PURPOSES. OMIT FILTER UPON INSTALLATION.
 5. PROVIDE WITH TYPE 6 BEVELED SURFACE MOUNT FRAME AND FACTORY SQUARE TO ROUND NECK ADAPTER MODEL "SR".
 6. PROVIDE LAY-IN STYLE FACE DIFFUSER AND ALUMINUM PLASTER FRAME MODEL APF. COORDINATE LOCATION WITH CEILING FRAMING INSTALLER.
 7. PROVIDE WITH FACTORY BACK PAN INSULATION.

HVAC AIR CURTAIN SCHEDULE									
MARK	AREA SERVED	BASIS OF DESIGN			UNIT POWER			MOUNTING HEIGHT	NOTES
		MANUFACTURER	MODEL	NOZZLE CFM	HP	VOLTAGE	PHASE		
ARC-1	STAGING	POWERED AIRE	BCE-1-42	2170 CFM	0.5	120 V	1	7'-2"	1-4
ARC-2	DELIVERY VESTIBULE	POWERED AIRE	BCE-1-48	2155 CFM	0.5	120 V	1	7'-2"	1-4

NOTES:
 -NO SUBSTITUTIONS PERMITTED--
 1. MOUNT INSIDE BUILDING ABOVE DOOR AT 7'-2" A.F.F. MOUNTING HEIGHT IS FROM BOTTOM OF AIR CURTAIN.
 2. PROVIDE ALL NECESSARY MOUNTING BRACKETS AND ACCESSORIES.
 3. PROVIDE WITH MODEL 59A-300 COMMERCIAL MAGNETIC REED DOOR SWITCH
 4. AIR CURTAIN CONTROLLED BY MAGNETIC REED DOOR SWITCH. FAN ON WHEN DOOR IS OPEN.

HVAC EXHAUST FAN SCHEDULE										
MARK	CFM	EXT. STATIC PRESSURE	BASIS OF DESIGN			HP	FAN RPM	VOLTAGE	PHASE	NOTES
			FAN TYPE	DRIVE TYPE	SONES					
EF-1	450 CFM	0.375 in-wg	DOWNBLAST	DIRECT	7.4	1075	115V	1	7'-2"	1-4
EF-2	1400 CFM	0.475 in-wg	DOWNBLAST	DIRECT	7.9	1074	115V	1	7'-2"	1-4

NOTES:
 -NO SUBSTITUTIONS PERMITTED--
 1. PROVIDE WITH FACTORY DISCONNECT, FACTORY WIRED SOLID STATE SPEED CONTROLLER, 18" HIGH ROOF CURB WITH DAMPER TRAY, BACKDRAFT DAMPER, AND BIRD SCREEN.
 2. WIRE FOR CONTINUOUS OPERATION.

HVAC ROOFTOP UNIT SCHEDULE																						
MARK	AREA SERVED	NOMINAL TONS	SUPPLY AIR FAN DATA			ELECTRIC HEAT			UNIT POWER			COOLING CAPACITY			BASIS OF DESIGN							
			COOLING CFM	OUTSIDE AIR	E.S.P. (IN.)	HP LISTED	VOLTAGE	PHASE	MCA	MOCP	TOTAL COOLING MBH	SENSIBLE COOLING MBH	EDB (°F)	EWB (°F)	AMBIENT (DB° F/WB° F)	EER (SEER) (IEER)	MANUFACTURER	MODEL	NOTES			
RTU-1	FRONT CHECKOUT	8.5	3400 CFM	600	1.5	3.75	15	1	208V	3	44	50	1127	96.2	71	80	67	95/79	11 [14.6]	LENNOX ENLIGHT	LCT102H4E	1-21
RTU-2	FOOD SERVICE	12.5	4900 CFM	850	1.5	3.75	NA	NA	208V	3	61	80	1178	135.2	97.2	80	67	95/79	11 [14.6]	LENNOX ENLIGHT	LCT150H4E	2-21
RTU-3	RETAIL	10	3725 CFM	750	1.5	3.75	15	1	208V	3	54	70	1162	115.5	82.6	80	67	95/79	12.2 [15.5]	LENNOX ENLIGHT	LCT120H4E	2-21

NOTES:
 -NO SUBSTITUTIONS PERMITTED--
 1. PROVIDE CO2 SENSOR FOR INTERLINK WITH BUILDING AUTOMATION SYSTEM.
 2. PROVIDE LENNOX HUMIDITROL HOT GAS REHEAT OPTION.
 3. PROVIDE REMOTE WALL MOUNTED COMBINATION TEMPERATURE/HUMIDITY SENSOR MODEL 21W06 REFER TO CONTROL SYSTEM NOTES FOR CONTROL COMPONENTS REQUIREMENTS.
 4. PROVIDE 5-MINUTE ANTI-SHORT CYCLE TIMER.
 5. PROVIDE THRU THE BASE ELECTRICAL AND SINGLE POINT CONNECTION.
 6. PROVIDE WITH FACTORY 2" THROW AWAY PLEATED MERV 8 FILTERS.
 7. PROVIDE WITH 18" ROOF CURB.
 8. PROVIDE FACTORY 15 AMP GFCl SERVICE OUTLET WITH WEATHERPROOF COVER. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE FIELD WIRING TO RECEPTACLE.
 9. PROVIDE WITH FACTORY INSTALLED DISCONNECT.
 10. PROVIDE WITH MOTORIZED DAMPER AND OUTSIDE AIR INTAKE HOOD.
 11. PROVIDE MANUFACTURER'S MOTOR AND DRIVE PACKAGE AS REQUIRED TO MEET SCHEDULED AIR CAPACITIES AND PRESSURE DROP.
 12. PROVIDE FACTORY APPLIED PHENOLIC COATING FOR CORROSION PROTECTION ON CONDENSER COILS WITHIN 10 MILES OF SALT WATER.
 13. PROVIDE BUILDING AUTOMATION SYSTEM (BAS) EQUIPMENT - REFER TO BAS SYSTEM MASTER SPEC FOR SYSTEM DETAILS AND EQUIPMENT PART NUMBERS.
 14. PROVIDE FACTORY INSTALLED BACNET BAS INTERFACE.
 15. PROVIDE LENNOX BARY FILTER SWITCH.
 16. PROVIDE LENNOX MC CONTROL BOARD (STANDARD ON L-SERIES UNITS).
 17. TEMPERATURE SETPOINT: 74°F COOLING, 68°F HEATING. HUMIDITY SETPOINT: 50% RELATIVE HUMIDITY.
 18. PROVIDE WITH FACTORY CONDENSATE PAN WATER LEVEL MONITORING DEVICE FOR COMPLIANCE WITH FBC 2020 MECHANICAL SECTION 307.2.3.
 19. PROVIDE WITH FACTORY INSTALLED SUPPLY AND RETURN SMOKE DETECTORS.
 20. CORROSION RESISTANT COATING ON ALL COILS INCLUDING REHEAT COIL.

- ### 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 LOW BLOWER" AND "OCCUPIED HIGH BLOWER" IS ADJUSTED DURING UNIT SETUP TO PROVIDE MINIMUM FRESH AIR REQUIREMENTS PER RTU SCHEDULE AT ALL SUPPLY AIR BLOWER SPEEDS.
 - WHEN SUPPLY AIR BLOWER IS OFF, THE OUTDOOR AIR DAMPER IS CLOSED.
 - WHEN UNIT IS IN OCCUPIED MODE AND SUPPLY AIR BLOWER IS OPERATING BELOW THE "MIDPOINT" BLOWER SPEED, THE OUTDOOR AIR DAMPER IS AT MINIMUM "LOW BLOWER" POSITION.
 - WHEN UNIT IS IN OCCUPIED MODE AND SUPPLY AIR BLOWER IS OPERATING AT A SPEED EQUAL TO OR ABOVE THE "MIDPOINT" BLOWER SPEED, THE OUTDOOR AIR DAMPER IS AT MINIMUM "HIGH BLOWER" POSITION.
 - NOTE: THE "MIDPOINT" BLOWER SPEED IS AN AVERAGE OF THE MINIMUM AND MAXIMUM BLOWER SPEED (MINIMUM SPEED + MAXIMUM SPEED DIVIDED BY 2).

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-233.004, F.A.C.

WAWA INC.
 260 W. BAKTINDORE PIKE
 WAWA, PA 19063

PROJECT NAME: F110 PROTOTYPE V2024.03
 PROJECT NO.: 6032350-5489
 WAWA STORE #5489
 NEW JOHN SING PAVY AND ROCKY BAYOU DR., NICEVILLE, FL 32578

DATE: 08/15/2025
 RELEASE: 08/15/2025
 ISSUED FOR PERMIT: 08/15/2025
 REV. A - ISSUED FOR BID: 08/15/2025
 CONSTRUCTION: 08/15/2025

PROTOTYPE: F110 PROTOTYPE V2024.03
 PROJECT NO.: 6032350-5489
 DRAWN: [Signature]
 AUTHOR: [Signature]
 CHECKED: [Signature]
 CHECKER: [Signature]

5489
 NICEVILLE, FL

M4.0

PROFESSIONAL OF RECORD: FAYATTON & ASSOCIATES, INC.
 1000 N. W. 10TH AVE., SUITE 100
 MIAMI, FL 33136
 PHONE: (305) 575-1111
 FAX: (305) 575-1112
 WWW.FAYATTON.COM

ON THE DATE WITHIN THE DIGITAL SIGNATURE ABOVE, PRINTED COPIES OF THE DOCUMENT HAVE BEEN DIGITALLY SIGNED AND SEALED TO THE FOLLOWING EXTENT: [Signature]