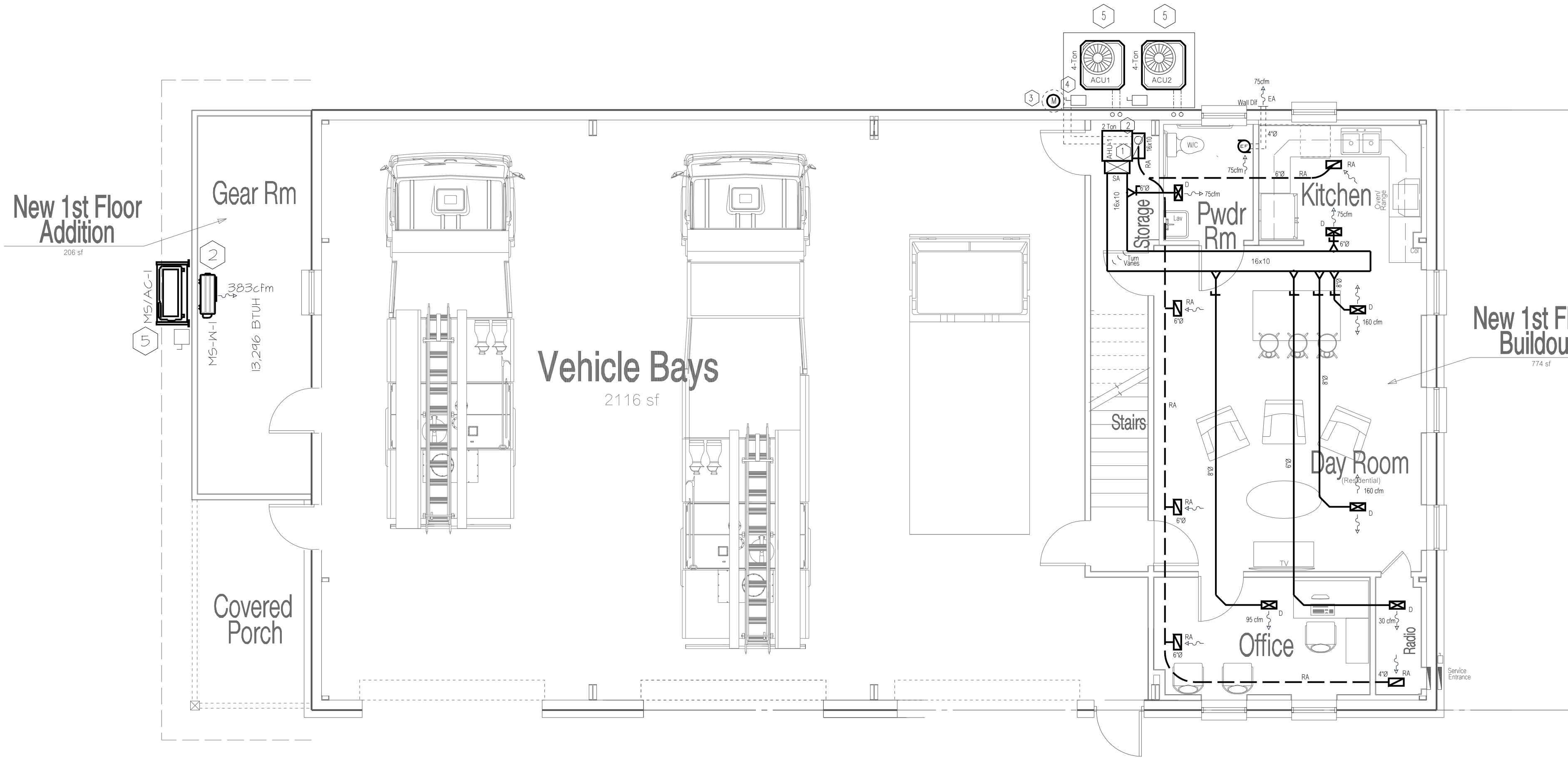
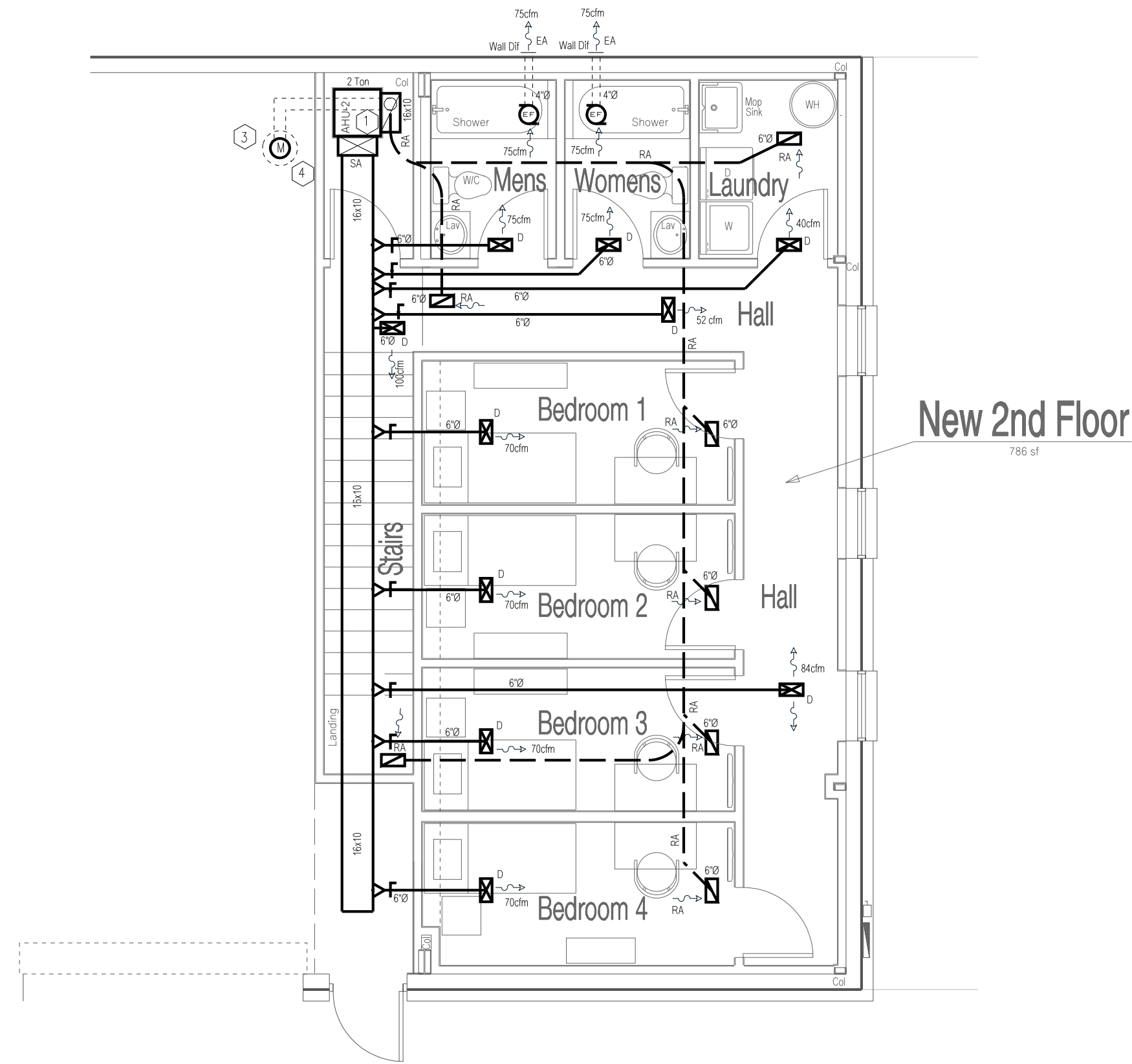




Mechanical - HVAC Main Floor Plan

Scale 1/8"=1'-0"



Mechanical - HVAC Mezzanine Floor Plan

Scale 1/8"=1'-0"

HVAC SYMBOL LEGEND	
AC	ABOVE CEILING
AD	ACCESS DOOR
	CEILING DIFFUSER
	CEILING RETURN GRILLE
	CEILING EXHAUST
	SIDEWALL REGISTER
	SIDEWALL GRILLE
CFM	CUBIC FEET PER MINUTE
FD	FIRE DAMPER
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
REL	RELIEF AIR
	THERMOSTAT (PROGRAMMABLE)
	MANUAL DAMPER
	MOTORIZED DAMPER
SA	SA - SUPPLY SIDE DUCT
RA	RA - RETURN SIDE DUCT
REL	REL - RELIEF AIR SIDE DUCT
	REFRIGERANT LINES
AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
RTU	ROOF TOP UNIT
FD	FIRE DAMPER

CODED NOTES

- INSTALL AIR HANDLER UNIT ON FLOOR LEVEL PER IBC LIMITATIONS & REQUIREMENTS. PROVIDE DRAIN PAN AND CONDENSATE DRAIN w/ TRAP FROM UNIT & RUN PIPE HEADER TO NEAREST CONDENSATE DRAIN. PLACE UNIT ON FLOOR OR ON RETURN AIR BOX.
- RUN REFRIGERANT PIPING BETWEEN A/C UNIT IN WALL TO CORRESPONDING CONDENSING UNIT LOCATED ON PAD OUTSIDE. FIELD VERIFY EXACT ROUTING. FOR SIZES REFER TO SCHEDULE ON M-2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- MOTOR OPERATED DAMPER. INTERLOCK WITH AHU ASSOCIATED AHU.
- PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT OF EACH AHU. THIS ITEM FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- OUTSIDE A/C UNIT ON CONCRETE PAD.
- OUTSIDE AIR HOOD SHALL BE LOREN COOK FR 8" SPIN ALUMINUM VENT. THROAT SIZE = 11/2" DIA OR OTHERWISE NOTED. HOOD IS 1/4" DIA. ROOF CRIMP = 8 1/2" w/ BACKDRAFT DAMPER. HEIGHT = 106 IN. HEIGHT ABOVE ROOF = 8 1/2" (VERIFY LOCATION WITH ROOFING CONTRACTOR).
- INSTALL CONDENSING UNIT ON CONCRETE PAD AT SIDE EXT WALL PER IMC REQUIREMENTS

RETURN AIR REGISTER SCHEDULE		
TYPE	SIZE	AIR VOLUME (CFM)
A	24" x 24"	500
B	24" x 12"	301-550
C	12" x 12"	200 - 400
D	12" x 6"	0 -200

SUPPLY AIR DIFFUSER SCHEDULE	
TYPE OF DIFFUSER	A - 8" - 300"
	AIR QUANTITY IN CFM
	NECK SIZE
TYPE	DESCRIPTION
A	SQUARE CEILING SUPPLY AIR DIFFUSER (MODULE SIZE AS SHOWN) ANEMOSTAT EPL-D, TITUS TMS
B	ROUND CEILING SUPPLY AIR DIFFUSER OMNI-DIRECTIONAL (MODULE) SIZE AS SHOWN) TITUS THRA. ANEMOSTAT
C	12" X 12" DIFFUSER or WALL GRILL
D	12" X 6" DIFFUSER

MANUFACTURERS LISTED ARE FOR DESIGN PURPOSES ONLY. OTHER MANUFACTURERS MAY BE USED INWHAN APPROVED BY A/E. NOTE: NOISE CRITERIA FOR EACH REGISTER, GRILL & DIFFUSER SHALL NOT EXCEED NC-30.

ELECTRIC FURNACE SPLIT SYSTEM UNIT SCHEDULE											
MARK	MODEL #	BLOWER DATA			COOLING DATA		HEATING	ELECT. DATA		EFFICIENCY	
		TOTAL CFM	MIN. OA CFM	EXT. SP	HP	TOTAL CAPACITY BTU/HR	TONS	TOTAL CAPACITY (BTU/H)	MOP		MCA
AHU-12	RUI24 - 230v-1ph RHEEM/RUUD	814	105	0.1	3/4			24,000	40	35	115/1ph/ 60hz
A/C-12	RAB-24-230v-1ph RHEEM/RUUD				1/5	24,000	2.0		25	15.0	230/1ph/ 60hz
MS-W-1	B-VFH24A-1 COMFORT AIRE	383	50	0.1	15W			13,100	20	30	240/1ph/ 60hz
MX/AC-1	A-VFH24TAA COMFORT AIRE					11,900	1.0				
NOTE: ALL UNITS DESIGN BASED ON RUUD/RHEEM PRODUCTS UNIT, CARRIER, ETC MAY BE USED											

NOTE: ALL UNITS DESIGN BASED ON RUUD/RHEEM PRODUCTS UNIT, CARRIER, ETC MAY BE USED

- PROVIDE & INSTALL FILTER RACK AND FILTERS.
- NOT USED.
- PROVIDE OUTSIDE AIR PER COMPLIANCE NOTE BELOW.
- PROVIDE SMOKE DETECTORS TO SHUT DOWN THE FANS IN THE EVENT OF SMOKE AND FIRE WHERE REQUIRED.
- PROVIDE PROGRAMMABLE THERMOSTAT
- UNITS ABOVE BASED ON RUUD UNITS. EQUIVALENT UNITS BY CARRIER, BRYANT OR YORK ARE ACCEPTABLE.
- UNITS ABOVE SHALL ALSO RECEIVE DEHUMIDIFIER UNIT.

- SEE OUTSIDE AIR CALCULATIONS - THIS SHEET
- SET ECONOMIZER TO FULL OPEN - MAX O.A.

OUTSIDE AIR COMPLIANCE NOTE:

- THE DESIGNER HAS REVIEWED IMC SECTION 403 TABLE 403.3 AND IS PROVIDING OUTSIDE AIR IN ACCORDANCE WITH THE FOLLOWING FORMULA:

$$V_{ex} = R_1 P_2 + R_2 A_2$$

AHU 1 (BEDROOM - LIVING AREAS)

Occupant Density = 15 CFM PER PERSON
= 6 P @ 15 = 90 CFM
= 4 BEDROOMS X 15 CFM = 30 CFM
Total O.A. = 105 cfm

Project Name

Construction Document for
Banks County Fire Station
Fire Station 33
Banks County, Georgia

Seal

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REVIEWS

DATE & NO.	DESCRIPTION

DATE OF DWG.

12 Aug. 2026

PRINTING DATE

SHEET NUMBER

M100

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