

AIR DISTRIBUTION SCHEDULE NOTES:

1. PROVIDE SQUARE TO ROUND ADAPTERS FOR EXHAUST/RETURN GRILLES AS REQUIRED.
2. ALL SUPPLY AIR DIFFUSERS SHALL BE FACTORY INSULATED, FOIL-BACKED TYPE.
3. SEE WALL HUNG UNIT SCHEDULE FOR ADDITIONAL DEVICES.
4. ALL SIDEWALL MOUNTED DEVICES SHALL BE FACTORY PRIMED FOR FIELD PAINTING TO MATCH WALL PER SPECIFICATION SECTION 099123.

AIR DISTRIBUTION SCHEDULE

SYMBOL	MAX CFM	FACE SIZE	NECK SIZE	THROW	FUNCTION	MANUFACTURER	DESCRIPTION
E1	750	24"x12"	22" X 10"	--	E/RAG	PRICE 80	W/ SHEET METAL PLENUM, FULL SIZE OF GRILLE FACE
E2	1600	24"x24"	22" X 22"	--	E/RAG	PRICE 80	W/ SHEET METAL PLENUM, FULL SIZE OF GRILLE FACE
E3	4500	50"x32"	48" X 30"	--	SRAG	PRICE 95	HEAVY DUTY GYM GRILLE, 3/4" SPACING 45 DEG. DEFLECTION
E4	1200	82"x36"	80" X 36"	--	SRAG	PRICE 95	HEAVY DUTY GYM GRILLE, 3/4" SPACING 45 DEG. DEFLECTION
E5	7100	792"x4"	792" X 4"	--	E/RAG	PRICE LBP	Linear Bar Grille Return - CORE 15A W/ 1" FRAME
E7	1000	24"x24"	22" X 22"	--	E/RAG	PRICE ATG1	Aluminum Transfer Grilles
E8	600	18"x18"	12" X 12"	--	E/RAG	PRICE ATG1	Aluminum Transfer Grilles
E9	1000	14"x14"	12" X 12"	--	E/RAG	PRICE ATG1	Aluminum Transfer Grilles
S1	100	24"x24"	6"ø	4-WAY	CD	PRICE SCD-1	Square Cone Diffuser
S2	210	24"x24"	8"ø	4-WAY	CD	PRICE SCD-1	Square Cone Diffuser
S4	750	15"x6"	15" X 7"	1-WAY	CD	PRICE HCD1	High Capacity Drum Louver Diffuser - 0 DEGREE DEFLECTION
S5	550	24"x24"	12"ø	4-WAY	CD	PRICE SMD/AMD	Modular Ceiling Diffusers
S6	400	24"x24"	10"ø	4-WAY	CD	PRICE SMD/AMD	Modular Ceiling Diffusers
S7	350	24"	10"ø	4-WAY	CD	PRICE RID	Round Industrial Diffusers
S8	100	36"x4"	6"ø	1-WAY	CD	PRICE SDS 100 W/ SDB	Linear Slot Diffuser with Plenum
S9	150	60"x4"	6"ø	1-WAY	CD	PRICE SDS 100 W/ SDB	Linear Slot Diffuser with Plenum
S10	150	9"x6"	10" X 7"	1-WAY	CD	PRICE HCD1	High Capacity Drum Louver Diffuser - 0 DEGREE DEFLECTION
S11			5"ø	1-WAY	CD	PRICE SDS	Linear Slot Diffuser
SR1	0	18"x18"	16" X 16"	--	E/RAG	PRICE ATG1	Access Door

EXHAUST/SUPPLY FAN SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 233423 FOR FEATURES.
2. REFER TO M700 SHEETS AND SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
4. AT CONTRACTOR'S OPTION, PROVIDE TRANSITION FROM FAN BACKDRAFT DAMPER TO EQUIVALENT ROUND DUCT AND EXHAUST DOWN TO EXHAUST GRILLE, WHERE FAN SERVES SINGLE GRILLE.

EXHAUST/SUPPLY FAN SCHEDULE

NUMBER	AIRFLOW (CFM)	EXT. S.P. (IN W.C.)	MAX. SONE LEVEL	DRIVE	POWER	MODEL	CONTROLLED BY
EF - 1	150	0.250	5.8	DIRECT	0.083 HP	PENNBARRY DX08	INTERLOCK W/ LIGHTS
EF - 2	800	0.250	9.3	DIRECT	0.300 HP	PENNBARRY DX13	THERMOSTAT
EF - 3	220	0.480	7.5	DIRECT	68.300 W	FANTECH FR150	PRESSURE SWITCH
EF - 4	650	0.250	9.3	DIRECT	0.300 HP	PENNBARRY DX13	THERMOSTAT

ELECTRIC HEATER SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 238216.14 FOR FEATURES.
2. REFER TO M700 SHEETS AND SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

ELECTRIC HEATER SCHEDULE

NUMBER	TYPE	KW	MANUFACTURER
EH - 1	WALL	4	QMARK AWH4000
EH - 2	WALL	4	QMARK AWH4000

SMOKE VENT SCHEDULE

UNIT	LENGTH	WIDTH	LOCATION	MANUFACTURER	MODEL
SV-1	5' - 0"	7" - 0"	STAGE	MILCOR	U-LPA-6084
SV-2	5' - 0"	7" - 0"	STAGE	MILCOR	U-LPA-6084
SV-3	5' - 0"	7" - 0"	STAGE	MILCOR	U-LPA-6084
SV-4	5' - 0"	7" - 0"	STAGE	MILCOR	U-LPA-6084

HVAC CONTROL PANELS

Space Name	Space Number	Designation
ELEC.	138	DDC CP
ELEC.	138	CP
DATA	156	DDC CP
DATA	156	CP

DEDICATED OUTSIDE AIR UNIT W/ ENERGY RECOVERY SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 237433 FOR FEATURES.
2. REFER TO M700 SHEETS FOR CONTROLS.
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
4. ENERGY RECOVERY WHEEL MOTOR TO BE 1/2 HP MINIMUM.
5. ROOM RETURN AIR CONDITIONS: 75°F DB AT 50% R.H.
6. PROVIDE UNIT INSTALLED FIRE ALARM ADDRESSABLE SMOKE DETECTOR ON RETURN SIDE OF UNIT.
7. PROVIDE EACH UNIT WITH AN AIR TREATMENT SYSTEM CONTROLLING CONTAMINANTS OF CONCERN AND MEETING THE REQUIREMENTS OF THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1-2007. AIR TREATMENT MUST BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. SYSTEM SHALL BE POWERED BY A 24 VOLT CONNECTION THROUGH UNIT. SUPPLIER SHALL PROVIDE A LETTER STATING THAT THEIR PRODUCT MEETS ALL REQUIREMENTS OF ASHRAE 62.1-2007 FOR REDUCTION OF OUTSIDE AIR, AS WELL AS ALL SUPPORTING DOCUMENTATION AND CALCULATIONS.
8. PROVIDE THIRD PARTY ECONOMIZER IF REQUIRED TO ALLOW FOR DUCT CONFIGURATION SHOWN ON FLOOR PLAN AND RELIEF.
9. PROVIDE HOT GAS REHEAT ON ALL UNITS.

DEDICATED OUTSIDE AIR UNIT W/ ENERGY RECOVERY SCHEDULE

NUMBER	SUPPLY AIR			EXHAUST AIR			COOLING				HEATING				MANUFACTURER AND MODEL				
	TOTAL CFM	EXT. STATIC PRESS. (IN. W.C.)	MIN. FAN MOTOR HP	TOTAL CFM	EXT. STATIC PRESS. (IN. W.C.)	MIN. FAN MOTOR HP	O.A. EAT (D.B./W.B.)(°F)	WHEEL LAT (D.B./W.B.)(°F)	WHEEL % EFF	COOLING CAPACITY (BTU/H)	COIL LAT (D.B./W.B.)(°F)	HOT GAS REHEAT LAT (D.B.)(°F)	O.A. EAT (D.B./W.B.)(°F)	WHEEL LAT (D.B./W.B.)(°F)		WHEEL % EFF	INPUT CAPACITY (BTU/H)	OUTPUT CAPACITY (BTU/H)	
ERU - 1	2,000	1.50	3.0	2,960	1.50	5.0	95/75	78.9/65.5	78.1	66,800	55/54.5	77.2	20/16.5	61.3/48.8	78.1	100,000	80,000	98	Greenheck RVE-40-36-30H-5D-C
ERU - 2	2,300	1.50	3.0	2,350	1.50	5.0	95/75	80.7/66.7	69.3	101,700	52.3/52	77.5	20/16.5	56/45.5	69.3	100,000	80,000	88.2	Greenheck RVE-40-36-30H-7.5D-C
ERU - 3	2,650	1.50	3.0	2,695	1.50	5.0	95/75	81.4/67.1	66.2	104,000	54.8/54.4	78.1	20/16.5	54.1/44.2	66.2	150,000	120,000	96	Greenheck RVE-40-36-30H-7.5D-E
ERU - 4	2,600	1.00	3.0	2,170	1.00	3.0	95/75	82.4/67.7	61.3	123,900	52.8/52.1	74.5	20/16.5	51.3/42.3	61.3	150,000	120,000	94	Greenheck RVE-40-36-30H-10D-E

ROOFTOP AIR CONDITIONING UNIT SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 237413 FOR FEATURES.
2. REFER TO M700 SHEETS AND SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
4. PROVIDE EACH UNIT WITH AN AIR TREATMENT SYSTEM CONTROLLING CONTAMINANTS OF CONCERN AND MEETING THE REQUIREMENTS OF THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1-2007. AIR TREATMENT MUST BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. SYSTEM SHALL BE POWERED BY A 24 VOLT CONNECTION THROUGH UNIT. SUPPLIER SHALL PROVIDE A LETTER STATING THAT THEIR PRODUCT MEETS ALL REQUIREMENTS OF ASHRAE 62.1-2007 FOR REDUCTION OF OUTSIDE AIR, AS WELL AS ALL SUPPORTING DOCUMENTATION AND CALCULATIONS.
5. PROVIDE THIRD PARTY ECONOMIZER IF REQUIRED TO ALLOW FOR DUCT CONFIGURATION SHOWN ON FLOOR PLAN AND RELIEF.
6. PROVIDE HOT GAS REHEAT ON ALL UNITS.

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

NUMBER	SUPPLY AIR				COOLING				HEATING				MANUFACTURER	MODEL NUMBER				
	TOTAL CFM	O.A. CFM	EXT. STATIC PRESS. (IN. W.C.)	FAN BHP	TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/HR)	ENTERING D.B. (°F)	LEAVING W.B. (°F)	O.A. CONDENSER (°F)	INPUT CAPACITY (BTU/HR)	OUTPUT CAPACITY (BTU/HR)	LAT D.B. (°F)			FUEL	MIN. EFF. (EER)		
RTU - 1	8,000	1,875	1.00	4.51	272,840	211,130	95.0	76.0	51.6	50.4	95	220,000	178,000	90.6	N. GAS	9.8	Carrier	48TCDD24
RTU - 2	8,000	1,875	1.00	4.51	272,840	211,130	95.0	76.0	51.6	50.4	95	220,000	178,000	90.6	N. GAS	9.8	Carrier	48TCDD24
RTU - 3	8,000	1,875	1.00	4.51	272,840	211,130	95.0	76.0	51.6	50.4	95	220,000	178,000	90.6	N. GAS	9.8	Carrier	48TCDD24
RTU - 4	8,000	1,875	1.00	4.51	272,840	211,130	95.0	76.0	51.6	50.4	95	220,000	178,000	90.6	N. GAS	9.8	Carrier	48TCDD24
RTU - 5	8,550	500	1.00	6.00	240,120	198,410	95.0	75.6	54.1	52.5	95	310,000	251,000	97.2	N. GAS	9.8	Carrier	48TCEE24
RTU - 6	8,550	500	1.00	6.00	240,120	198,410	95.0	75.6	54.1	52.5	95	310,000	251,000	97.2	N. GAS	9.8	Carrier	48TCEE24
RTU - 7	4,600	325	1.00	3.98	140,660	101,750	95.0	76.4	55.9	53.6	95	180,000	148,000	90.6	N. GAS	10.0	Carrier	48TCDD14
RTU - 8	5,650	325	1.00	3.45	172,460	138,970	95.0	76.2	53.4	53.4	95	180,000	146,000	93.0	N. GAS	10.0	Carrier	48TCDE16
RTU - 9	4,725	325	1.00	2.56	167,670	127,520	95.0	76.4	51.4	51.4	95	180,000	146,000	96.6	N. GAS	10.8	Carrier	48TCDE16
RTU - 10	6,900	1,525	1.00	4.20	214,680	168,500	95.0	79.4	56.8	55.9	95	220,000	170,000	93.9	N. GAS	10.8	Carrier	48TCDE20
RTU - 11	7,250	1,525	1.00	4.78	216,290	172,200	95.0	79.2	57.2	56.2	95	220,000	170,000	93.7	N. GAS	10.8	Carrier	48TCDE20
RTU - 12	4,525	425	1.00	4.19	145,160	111,080	95.0	76.9	54.1	53.4	95	180,000	148,000	93.3	N. GAS	10.8	Carrier	48TCDE14

MINI-SPLIT UNIT SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 238126 FOR FEATURES.
2. REFER TO M700 SHEETS AND SPECIFICATION SECTION 230900 AND 230993 FOR CONTROLS.
3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
4. PROVIDE EACH UNIT WITH AN AIR TREATMENT SYSTEM CONTROLLING CONTAMINANTS OF CONCERN AND MEETING THE REQUIREMENTS OF THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1-2007. AIR TREATMENT MUST BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. SYSTEM SHALL BE POWERED BY A 208 VOLT CONNECTION THROUGH UNIT. SUPPLIER SHALL PROVIDE A LETTER STATING THAT THEIR PRODUCT MEETS ALL REQUIREMENTS OF ASHRAE 62.1-2007 FOR REDUCTION OF OUTSIDE AIR, AS WELL AS ALL SUPPORTING DOCUMENTATION AND CALCULATIONS.
5. PROVIDE ALL UNITS WITH TWO (2) SETS OF WASHABLE FILTERS.
6. PROVIDE ALL UNITS WITH WIRED, WALL-MOUNTED THERMOSTATS.

MINI-SPLIT SCHEDULE

NUMBER	INDOOR UNIT (MAHU)			OUTDOOR UNIT (MHP)			MANUFACTURER
	AIRFLOW CFM	OUTSIDE AIR CFM	TOTAL CAPACITY (BTU/H)	ENTERING D.B. (°F)	LEAVING W.B. (°F)	O.A. CONDENSER (°F)	
MAHU - 1	300	0	12,000	60	67	95	CARRIER 40MAQB12B-3 / CARRIER 38MAQB12-3 - WITH LOW AMBIENT COOLING KIT
MAHU - 2	300	0	12,000	60	67	95	CARRIER 40MAQB12B-3 / CARRIER 38MAQB12-3 - WITH LOW AMBIENT COOLING KIT
MAHU - 3	340	0	12,000	60	67	95	CARRIER 40MAQB12B-3 / CARRIER 38MAQB12-3 - WITH LOW AMBIENT COOLING KIT
MAHU - 4	340	0	12,000	60	67	95	CARRIER 40MAQB12B-3 / CARRIER 38MAQB12-3 - WITH LOW AMBIENT COOLING KIT
MAHU - 5	340	0	12,000	60	67	95	CARRIER 40MAQB12B-3 / CARRIER 38MAQB12-3 - WITH LOW AMBIENT COOLING KIT
MAHU - 6	290	0	9,000	60	67	95	CARRIER 40MAQB09B-3 / CARRIER 38MAQB09-3 - WITH LOW AMBIENT COOLING KIT

SA&E PROJECT NUMBER: 01-615-056
 BID PACKAGE: BP-1
 ISSUED FOR CONSTRUCTION: 10/15/2019
Southern AE
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 (770) 819-7777
 architects & engineers
 REVISIONS: R # 1, Doc # AD1, Date 11.4.2019

FACILITY CODE NUMBER: 674-0110
GYMNASIUM/AUDITORIUM FOR:
HEARD COUNTY SCHOOLS
 545 MAIN STREET, FRANKLIN, GA 30217
HEARD COUNTY SCHOOL SYSTEM
 FRANKLIN, GEORGIA

MECHANICAL EQUIPMENT SCHEDULES
 DRAWING NUMBER: M601
 STATE OF GEORGIA REGISTERED ARCHITECT
 GEORGIA REGISTERED ARCHITECT
 REGISTERED PROFESSIONAL ENGINEER