FMS	Γ		OL	πрυ	15		Γ			IN	PU	TS				Г				,	SOF	ΓWΑ	RE					П	
INPUT/OUTPUT		BIN	ARY		AN/	LOG		BIN	AR	′		A١	<b>IA</b> L	OG			ΑL	ARM		DE	С		EN	IER	3Y	MG	MT.		
SUMMARY TYPICAL PACKAGED AND SPLIT AIR CONDITIONING UNIT (WITH GAS HEAT)	START/STOP	ENABLE/DISABLE	OPEN/CLOSE	SETPOINT ADJUST	DDC CONTROL		DIFF. PRESSURE SWITCH	AUX. CONTACT	ALARM CONTACT	PULSE CONTACT	CONCENTRATION (PPM)	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	VOLUME (CFM)	STATUS/INTERLOCK	HI/LO LIMIT	RUN TIME TOTALIZATION	PEOPOPOINAI	BBOD + INTEGRAL	-	TIME SCHEDULE S/S	OPTIMUM START/STOP	DAY/NIGHT SETBACK	DEMAND LIMIT/CYCLE	RESET OPTIMIZATION	ECONOMIZER	FAN SYNCHRONIZATION	NOTES
ROOM TEMPERATURE	Π		П	Т			Г		Г			Χ						П	Т	Τ	Τ	Γ		Г		Г		П	
ROOM OFFSET												Χ								Τ	Ι	Г							
ROOM HUMIDITY (PKG. UNITS ONLY)	Г		П	Т			Г		Г				X					П	Т	Τ	Т	Г		Г		Г		П	
OVERRIDE	Γ		П	Т	П		Г		Г	X				Г				П	Т	Τ	Т	Г		Г		Γ		П	
SUPPLY FAN	X		П	Т			Г		Г				Г					П	Т	Τ	Т	Г		Г		Г		П	
COOLING STAGE 1	X		П	Т	Г		Г	Г	Г	Г		Г	Г	Г				П	Т	Т	Т	Г		Г	Г	Г		П	
COOLING STAGE 2 (IF APPLICABLE)	X			Т	Г														T	Τ	Τ	Γ		Г				П	
HEAT STAGE 1	X																			I									
HEAT STAGE 2 (IF APPLICABLE)	X		П	Т			Г		Г									П	Т	Τ	Τ	Γ		Г		Г		П	
REVERSING VALVE (DEHUM)			Χ	$\perp$															1		I								

FMS		•	OUT	PUTS	3				ı	NPL	TS								SO	FTW	RE						
INPUT/OUTPUT	В	INAR	Y	A	NAL	OG	L,	BIN	IARY		,	ANA	LOG	;	^	LAR	м		DDC	$\perp$	Đ	NER	GY	MG	MT.		
SUMMARY							SWITCH									ATION			_	y.	STOP	*	빚	×		TION	
TYPICAL DUCTLESS SPLIT SYSTEM HEAT PUMP		ENABLE/DISABLE		JINT ADJUST	CONTROL		쀭		CONTACT		TEMPERATURE	TVE HUMIDITY	<b>∝</b> ।		S/INTERLOCK			PROPORTIONAL	. + INTEGRAL	SCHEDIII E S	START	F SETB	ND LIMIT/CYC	I OPTIMIZATION	ECONOMIZER	SYNCHRONIZATION	
SPLII SYSIEM HEAT PUMP	START	OPEN /C			8		DIFF.	YO.	ALARM	3	TEMPE	RELATIVE	PRESSURE	VOLUME	STATUS	zا≥		PROP	PROP.	Ä	MIMITAU	DAY/		RESET	ECON	FAN	
ROOM TEMPERATURE			Т	П	T	Т		T		Т	X	П			- 1	(	Т		П		Т						(

(1) TEMPERATURE POINT FOR INFORMATION ONLY. CONTROL SHALL BE BY THERMOSTAT FURNISHED BY UNIT MANUFACTURER.

FMS			Ol	ЛΡΙ	JTS					IN	PUTS	5							S	OFTV	VAF	RE						
INPUT/OUTPUT SUMMARY		BIN	ARY	1	AN	ALOG			3IN	ARY		AI	VAL (	G		AL/	ARM		DDC	;	7	EN	ERC	Υ	MGI	ÆΤ.	-	
TYPICAL FOR WALL- MOUNT UNIT (GAS HEAT)	START/STOP	ENABLE/DISABLE	OPEN/CLOSE		SEIFOINI AUJUSI			DIFF. PRESSURE SWITCH					DEFECTION HOMIDILY	HUMIDITY	STATUS/INTERLOCK	=	RUN TIME TOTALIZATION	PROPORTIONAL	PROP. + INTEGRAL		EDULE	OPTIMUM START/STOP	DAY/NIGHT SETBACK	DEMAND LIMIT/CYCLE	RESET OPTIMIZATION		FAN SYNCHRONIZATION	NOTES
ROOM TEMPERATURE	T	T	П	Ť	Ť	П	T	Ť	Ť			X	Ť	t	T		T	$^{\dagger}$		П	T	П			П	T	T	_
ROOM OFFSET	F			1	Ţ	П	4	1	Ŧ	F		X		I	F		$\Box$	Ŧ		П	4						4	
COOLING STAGE 1	X	H	$\forall$	+	$^{+}$	Н	+		t	+	Н	$^{+}$	$^{+}$	t	H		+	+	H	Н	1	_		Н	Н	-	+	-
HEATING STAGE 1	X	Г	П	Т	Т	П	T	Т	Т	T	П	T	Т	Т	Г		П	Т		П	П				П	T	T	
VENTILATION SYSTEM	Т	Г	X	Т	Т	П	Т	Т	Τ		П	Т		Т	П		П	Т		П							П	
SUPPLY FAN	X			T	Т	П	T	T	T		П	T	Т	Т				T		П	X							
SUPPLY AIR TEMPERATURE	Т	П	П	$\neg$	Т	П	╗		Т		\ \tag{\chi}	X.		Т	Т			$\top$		П	П				П		$\neg$	

																							4						_	7411	MIII		
FMS			0	UTF	PUT	s						IN	PUI	rs								1	S	FT	WAF	₹E_	gm.	1			1		]
INPUT/OUTPUT		BIN	ARY		,	NA	го	G		ВІ	NA	₹Y		1	MA	LOC	,		AL/	RM			DDC		ź		ERG	γĬ		П.			l
SUMMARY		5			UST				RE SWITCH		5	ь	SENSING RELAY					LOCK		TOTALIZATION			2	<b>.</b>	E S/S	L/588/12		/C/E	ZATION		SONIZATION	1	
MISCELLANEOUS	START/STOP	ENABLE/DISABLE	OPEN/CLOSE		SETPOINT ADJUST	DDC CONTROL			MESSURE	AUTCONTACT	AL CONTACT	CONTACT	CURRENT SEN	TEMPERMENT	RELANCE HUN	Š	VOLUE (CF)	STATEMINTERLOCK	LIMIT	RUN TIME TO		PROPORTIONAL	PROP. + INTEG	***	TIME SCHE	OPTIMUM/STA	DAY/NIGE SE	DEMANDILIMIT	RESET ON THE	NOM	FAN SYNCHRO	NOTES	
FREEZER TEMPERATURE SENSOR	L		L		600		_	W			L	Ľ	W	X.		×			X		4	4		Ш		Ц	Ы	Ц	Ц	_	4		
COOLER TEMPERATURE SENS	L	L	P		4	a			1	Ø.				22	1	•			Χ							Ш	Ш	Ш	Ш		$\perp$		
OUTSIDE AIR TEMPERATURE	L	1	L.	Ш	2	W	<b>L</b>		Ľ	W	D.	L,	1	X													Ш		Ш		$\perp$		
OUTSIDE AIR HUMIDITY	L	8	₩		/	1		<u>.</u>	١.	1					Χ												Ш				_		
CABINET HEATING	L	Х					3		Ø.	/	Ĺ																Ш				$\perp$		
THRU-WALL(PTAC) UNR	b.	X	L				Ø.	1111			L	Ш		Ш							_			Ш	Ш	Ц	Ц	Ц	Ц	_	4		
EXHAUST TO SEE	V)	<u></u>		W			L	L	L	L	L															Ш	Ш	Ш			$\perp$		

		AIR D	ISTRIBUTIO	n schedu	LE	
MARK	ТҮРЕ	NECK (1) CONNECTION	FINISH	OBD	PRICE NO. UNLESS NOTED	REMARKS (2)
(A)	CEILING DIFFUSER	6"Ø	MANUFACTURER'S STANDARD FINISH	YES	SCD-4C	24 X 24 PANEL (3)
A B	CEILING DIFFUSER	8"Ø	MANUFACTURER'S STANDARD FINISH	YES	SCD-4C	24 X 24 PANEL (3)
(A)	CEILING DIFFUSER	10"Ø	MANUFACTURER'S STANDARD FINISH	YES	SCD-4C	Z4 X Z4 PANEL (3)
(c)	CEILING RETURN/EXHAUST	10" X 10"	MANUFACTURER'S STANDARD FINISH	NO	80	12 X 12 PANEL WITH BORDER FRAME
D	CEILING RETURN/EXHAUST	22" X 22"	MANUFACTURER'S STANDARD FINISH	NO	80	24 X 24 PANEL WITH BORDER FRAME
E	SUPPLY REGISTER	SEE PLANS	MANUFACTURER'S STANDARD FINISH	YES	520D	DOUBLE DEFLECTION 3/4" BLADE SPACING
F	RETURN GRILLE	SEE PLANS	MANUFACTURER'S STANDARD FINISH	NO	535	45" DEFLECTION 1/2" BLADE SPACING

- (1) DUCT RUNOUT SIZE SAME AS NECK CONNECTION SIZE, UNLESS NOTED OTHERWISE.
- (2) PROVIDE LAY-IN TYPE FOR T-BAR CEILINGS AND SURFACE TYPE FOR ALL OTHER CEILINGS. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR CEILING TYPES
- (3) PROVIDE WITH REMOVABLE CORE (RC) AND MOLDED, INSULATED BACKPAN WITH FOIL SKRIM VAPOR BARRIER.
- (4) NOT USED.
- (5) NOT USED.

(6) OMIT OBD FOR WALL MOUNT HVAC UNITS.

	PAC	KAGED	HEATING	& AIR	CONDITION	ING UNI	T SCHED	ULE
ITEM	NOM. TONS	C.F.M. TOTAL	EXT. S.P. INCHES W.C.	C.F.M. O.A.	COOLING CAP. SENS/TOT MBH (1)	S.E.E.R. MIN. (1)	HTG. CAP. MBH N. GAS IN.	CARRIER MODEL NO.
AC-1	10	3,380	1.0	315	114.0	11.1 E.E.R.	224.0	48TCEE12/73/83
AC-2	8.5	3,000	1.0	300	99.0	11.0 E.E.R.	180.0	8TCDE09 (2)(3)(4)
AC-3	25	10,000	1.0	1700	280.0	9.8 E.E.R.	400.0	48TCFE29 (2)(3)(5)
AC-4	7.5	2,400	1.0	375	88.0	11.0 E.E.R.	224.0	CFE08 (2)(3)(5)

- (1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 210.
- (2) FURNISH FACTORY INSTALLED DISCONNECT AND HOT GAS REI
- (3) FURNISH ION GENERATOR AS SCHEDULED.

			alla,	GEN	FOR	<b>&amp;</b>		
ITEM	AHU NO.	MAX, TREATED 4	ату.	Essimple	DRY	POWER (VA)	VARIABLE OUTPUT WITH AIRFLOW	MANUFACTURER & MODEL NUMBER
IG-1	WGU/FUR	Allin.	1	1	CLUDED	24 VA	INTEGRAL	GPS-2400 (1)(2)(3)(4)
IG-2	AHU/AC	2,500		1	INGLUDED	24 VA	INTEGRAL	GPS-2400 (1)(2)(3)(4)
			<b>.</b>					

	CONDE	Ensing Unit	SCHEDULE	-
ITEM	SERVES	CAPACITY M.B.H.	S.E.E.R.	CARRIER MODEI NO.
CU-1	AHU-1	121.0	11.2 E.E.R.	38AUZB12
CU-2	COIL-1	34.5	13.0	24ABB336

	GAS	S FIRE	D FU	RNAC	E SCH	IEDULE	
ITEM	LOCATION	O.A. C.F.M.	C.F.M.	S.P.	НР.	HEATING M.B.H. INPUT	CARRIER MODEL NO.
FUR-1	MECH 159	150	1350	0.8	1/5	66.0	58STA070 (1)

		AI	R HAN	IDLIN	G UNIT	SCHE	DULE	
ITEM	C.F.M.	EXT.	FAN HP.	O.A.	COOLING CA	РАСІТУ МВН	CARRIER MODEL NO.	REMARKS
HEN	C.F.IVI.	5.P.	FAN DE.	C.F.M.	SENSIBLE	TOTAL	CARRIER MODEL NO.	REIVIARES
AHU-1	3750	1.0	2.4	240	-	121.0	40RUAA12	(1)(2)

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
(2) FURNISH ION GENERATOR AS SCHEDULED.

н.	V.A.C. LEGEND	
SYMBOL	DESCRIPTION	
—— SL ——	REFRIGERANT SUCTION / LIQUID	_
D	CONDENSATE DRAIN	
Û	THERMOSTAT 4'-6" A.F.	
<u>s</u>	SENSOR	
<b>◀</b> FD	FIRE DAMPER	
¢ or C.F.M.	CUBIC FEET PER MINUTE	
1 M-1	DETAIL NO	
$\boxtimes$	SUPPLY DIFFUSER	
	RETURN OR EXHAUST GRILLE	
or MVD	MANUAL VOLUME SAMPER	7
<u> </u>	DOTOR US CATED DAMPER	
	CARE ELL WISS CONCRET THICK TURNING VANES	
(A)	AIR STATE NECTONNECTION SIZE	
<b>₩</b>	NEW TO EXISTING CONNECTION	
N. 999	DIAMETER	
TYP.	TYPICAL	
	DEMOLITION EXTENTS (DEMO. PLANS ONLY)	

ARRANGE PIPING AND DUCTWORK TO CLEAR STRUCTURAL AND LIGHT FIXTURES.

PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT

PROVIDE MVD IN EACH ZONE SUPPLY DUCT OF MULTI-ZONE AHU'S. PROVIDE ACCESS DOORS IN DUCTWORK FOR ALL FIRE AND SMOKE DAMPERS, AND DUCT-MOUNTED COILS AND CONTROL DEVICES.

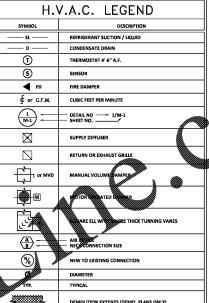
PROVISIONS SHALL BE MADE FOR DRAINING ALL OUTSIDE LINES SUBJECT TO FREEZING.

UNDERGROUND PIPING SHALL HAVE A MINIMUM COVER OF 24 INCHES.

SLOPE DRAIN LINES TOWARD DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT. THRU-WALL UNITS SHALL BE LOCATED SO AS TO BE SYMMETRICAL WITH ROOM, WINDOWS, WALL SECTIONS, AND OTHER ARCHITECTURAL REQUIREMENTS.

	DU	CT FU	IRNACE SC	HEDULE	
ITEM	LOCATION	C.F.M.	HEATING M.B.H. INPUT	HEATING M.B.H. OUTPUT	MANUF. & MODI NO.
DF-1	MECH 160	3750	225.0	182.25	MODINE DFG22

COIL SCHEDULE					
ITEM	C.F.M.	TOTAL M.B.H.	SENS. M.B.H.	MAX. A.P.D.	CARRIER MODEL NO.
COIL-1	1350	40.0	30.9	0.2"	CAPMP4ZZ1ALA



HVAC PLAN

DELOACH

4150 NEW HOPE CHURCH ROAD, ACWORTH, GA 30102 FOR THE BARTOW COUNTY SCHOOL, SYSTEM - DR. PHILLIP D. PAGE, SUPERINTENDENT CARTERSMILE, GEORGIA

ALLATOONA ELEMENTARY SCHOOL

SCALE: 1/8" = 1'-0" SHEET M4.01

