

STEAM CONDENSATE RECEIVER SCHEDULE (SEE HPE SCHEDULE FOR ELECTRICAL SERVICE)

SYMBOL	TYPE	LOCATION	SERVICE	NO. OF PUMPS	FLOW	HEAD	TEMP.	SIZE		PUMP	RECEIVER	FOUND. TYPE	REMARKS NOTES 1,2	BASIS OF DESIGN
					GPM ea.	PSI	F°	SUCT. IN	DISCH. IN	MOTOR HP ea.	GAL.			
CR-1	DUPLEX	BASEMENT MER	CULLUM	2	9	25	212	2	1.5	0.5	23	1	-	BELL & GOSSETT CB
CR-2	DUPLEX	TUNNEL	LINCOLN	2	9	25	212	2	1.5	0.5	23	1	-	BELL & GOSSETT CB

NOTES

1. PUMPS TO BE NON-OVERLOADING AT EVERY POINT ON PUMP CURVE.
2. PROVIDE TEFC MOTORS, WATER LEVEL GAUGE W/ SHUTOFF VALVE, THERMOMETER, INLET STRAINER, DISCHARGE PRESSURE GAUGES, UNIT MOUNTED CONTROL, PANEL W/ PUMP ALTERNATOR, HIGH LEVEL ALARM CONTACTS, CONTROL TRANSFORMER, TWO FLOAT SWITCHES, HOA MAGNETIC STARTERS AND DISCONNECT SWITCH.

FAN COIL UNIT SCHEDULE (SEE HPE SCHEDULE FOR ELECTRICAL SERVICE)

SYMBOL	SERVICE	TYPE (SEE NOTE 1)	FAN				COOLING (NOTE 2)										HEATING										REMARKS (NOTE 3)	BASIS OF DESIGN	
			CFM	ESP IN. WG	HP	RPM	EAT DB °F	EAT WB °F	EWT °F	GPM	SENS. MBH	TOTAL MBH	PD/ FT. WG	CONTROL VALVE			EAT °F	MBH	EWT °F	GPM	PD/FT. WG	CONTROL VALVE			BRANCH PIPE SIZE				
														TYPE	MAX. PD (FT.)	FAIL POS.						BRANCH PIPE SIZE	TYPE	MAX. PD (FT.)		FAIL POS.			BRANCH PIPE SIZE
FCU B3-1	TUNNEL	4P HCON	180	0.25	0.03	1194	80	65	43	0.7	3.5	4.7	3.2	2W MOD.	7 FT.	NO	3/4"	60	14.2	180	0.94	4.03	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCDB020	
FCU B3-2	TUNNEL	4P HCON	180	0.25	0.03	1194	80	65	43	0.7	3.5	4.7	3.2	2W MOD.	7 FT.	NO	3/4"	60	14.2	180	0.94	4.03	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCDB020	
FCU B2-1	B219 - EMR	4P HCAB	1200	-	0.23	-	75	65	43	4	28.43	34.51	6.4	2W MOD.	7 FT.	NC	1"	65	64.1	180	4	6.1	2W MOD.	7 FT.	NO	1"	NOTE 4	EM CC048	
FCU B1-1	B120 - ELEC EM	2P HCAB	350	-	0.16	-	75	65	43	2	8.8	10.9	5.3	2W MOD.	7 FT.	NC	3/4"	-	-	-	-	-	-	-	-	-	-	NOTE 4	EM CC012
FCU B1-2	B118 - ELEC MAIN	2P HCAB	1200	-	0.23	-	75	65	43	4	28.43	34.51	6.4	2W MOD.	7 FT.	NC	1"	-	-	-	-	-	-	-	-	-	-	NOTE 4	EM CC048
FCU B1-3	B118 - ELEC MAIN	2P HCAB	1200	-	0.23	-	75	65	43	4	28.43	34.51	6.4	2W MOD.	7 FT.	NO	1"	-	-	-	-	-	-	-	-	-	-	NOTE 4	EM CC048
FCU 1-1	CH-100 - PANTRY	4P HCAB	350	-	0.16	-	75	62	43	1	7.3	7.8	3	2W MOD.	7 FT.	NO	3/4"	65	22.9	180	2	3.4	2W MOD.	7 FT.	NO	3/4"	NOTE 4	EM CC012	
FCU 1-2	CH-1S1 MAIN STAIR	4P VCON	250	-	0.04	1208	75	62	43	0.6	4	4.11	0.6	2W MOD.	7 FT.	NO	3/4"	65	10.4	180	0.69	1.15	2W MOD.	7 FT.	NO	3/4"	NOTE 5	TRANE FCBB020	
FCU 1-3	CH-1S1 MAIN STAIR	4P VCON	250	-	0.04	1208	75	62	43	0.6	4	4.11	0.6	2W MOD.	7 FT.	NO	3/4"	65	10.4	180	0.69	1.15	2W MOD.	7 FT.	NO	3/4"	NOTE 5	TRANE FCBB020	
FCU 1-4	CH-102A OFFICE	4P VCON	650	0.25	0.22	1745	75	62	43	1.9	12.2	12.5	1.6	2W MOD.	7 FT.	NO	3/4"	65	24.8	180	1.65	8.12	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCAB060	
FCU 1-5	CH-102B COLLAB	4P VCON	650	0.25	0.22	1745	75	62	43	1.9	12.2	12.5	1.6	2W MOD.	7 FT.	NO	3/4"	65	24.8	180	1.65	8.12	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCAB060	
FCU 1-6	CH-104B/CH-106B	4P HCON	875	0.4	0.24	1596	75	62	43	3	19.2	19.6	2.7	2W MOD.	7 FT.	NO	1"	65	30.2	180	0.86	4.44	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCCB100	
FCU 1-7	CH-101 LOBBY	4P HCON	310	0.4	0.09	1565	75	62	43	1.1	6.6	6.9	2.1	2W MOD.	7 FT.	NO	3/4"	65	13.8	180	0.92	2.21	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCCB040	
FCU 2M-1	CH-300 GALLERY	4P HCON	730	0.4	0.24	1745	75	62	43	2.6	16.1	16.8	3.1	2W MOD.	7 FT.	NO	3/4"	65	30.2	180	2.01	13.81	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCDB080	
FCU 3-1	SHARED	4P VCAB	360	-	0.08	1485	75	62	43	1.4	8.3	9.1	3.4	2W MOD.	7 FT.	NO	3/4"	65	14.8	180	0.99	2.53	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCBB040	
FCU 3-2	SHARED	4P VCAB	600	-	0.16	1540	75	62	43	1.8	11.2	11.5	1.4	2W MOD.	7 FT.	NO	3/4"	65	23.9	180	1.59	7.58	2W MOD.	7 FT.	NO	3/4"	-	TRANE FCBB060	

NOTES:

1. TYPE - 4P = 4 PIPE, 2P = 2 PIPE, VHR = VERTICAL HIGH RISE, HCAB = HORIZONTAL CABINET, HCON = HORIZONTAL CONCEALED, VCAB = VERTICAL CABINET, VCON = VERTICAL CONCEALED
2. CHILLED WATER LWT = 56°F
3. PROVIDE SPARE SET OF ALL FILTERS.
4. PROVIDE INTEGRAL CONDENSATE PUMP.
5. PROVIDE CABINET EXTENSIONS TO CONCEAL ALL PIPING AND TRIM.

RADIANT HEATING PANEL SCHEDULE

SYMBOL	SERVICE	PANEL WIDTH (FT.)	PANEL LENGTH (FT.)	HEATING								REMARKS	BASIS OF DESIGN
				MBH	AWT	GPM	NO. PASSES	CONTROL VALVE			BRANCH PIPE SIZE		
								TYPE	MAX. PD (FT.)	FAIL POS.			
RHP B2-1	MEN B201	1	26	4.9	150	0.25	2	2W 2POS	1 FT.	NO	3/4"	NOTES 1, 2	STERLING
RHP B2-2	JOIST/STAIR B203	1	1	9	2.0	0.2	2	2W 2POS	1 FT.	NO	3/4"	NOTE 1	STERLING
RHP B2-3	WOMEN B207	1	13	2.8	170	0.28	2	2W 2POS	1 FT.	NO	3/4"	NOTE 1	STERLING
RHP B1-1	MEN B101	1	27	5.1	160	0.26	2	2W 2POS	1 FT.	NO	3/4"	NOTES 1, 2	STERLING
RHP B1-2	WOMEN B103	1	15	3.4	175	0.7	2	2W 2POS	1 FT.	NO	3/4"	NOTE 1	STERLING

NOTES:

1. PANELS MUST BE 12" WIDE AND COVER THE ENTIRE LENGTH OF THE RESPECTIVE SPACE EXTERIOR WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LENGTHS.
2. PROVIDE CORNER PIECES AND ACCESSORIES AS REQUIRED FOR CONTINUOUS PANELS AROUND ROOM PERIMETER.

DUCT-MOUNTED CHILLED WATER COIL SCHEDULE

SYMBOL	SERVICE OR LOCATION	CFM	MBH	EAT		LAT		APD	WATER										DUCT WxH	REMARKS	BASIS OF DESIGN
				°F DB	°F WB	°F DB	°F WB		EWT	LWT	GPM	PD/ FT. WG	CONTROL VALVE			BRANCH PIPE SIZE (IN.)	ROWS				
													TYPE	MAX. PD (FT.)	FAIL POS.						
CC-1	COLD STORAGE	150	6.9	88	55	46	46	IN. WG	0.3	43	45.7	5	6.56	2W. MOD.	7 FT.	NO	1"	12	12X4	-	TRANE - COONEY



**US Army Corps
of Engineers ®**

[illegible]

US ARMY CORPS OF ENGINEERS

DESIGNED BY:

DRAWN BY:

RKG

CHECKED BY:

WCJ

SUBMITTED BY:

SIZE:

ASND

JACOBS / EWING

COLE

A Joint Venture

ISSUE DATE:

NOTIFICATION NO.:

W91ZDS-1P-R-0014

CONTRACT NO.:

W91ZDS-1P-C0031

PROJECT NO.:

20180424

WEST POINT, NY
605 CULLUM HALL RENOVATION

SCHEDULES - HVAC

SHEET ID

M604