ENERGY RECOVERY VENTILATOR (ERV) SCHEDULE

MARK	LOCATION	SERVICE	EXHAUST AIR - SUMMER				SUPPLY AIR - SUMMER				EXHAUST AIR - WINTER				SUPPLY AIR - WINTER				APD ("WC)		PURGE AIR (CFM)	EXH. FAN MOTOR (HP)	SUPP. FAN MOTOR (HP)	V/PH/Hz	UNIT EFF. (%)	MAX. WEIGHT (LBS)	NOTES
			AIR FLOW (CFM)	HEAT TRANSF. (MBH)	EAT DB/WB (F)	LAT DB/WB (F)	AIR FLOW (CFM)	HEAT TRANSF. (MBH)	EAT DB/WB (F)	LAT DB/WB (F)	AIR FLOW (CFM)	HEAT TRANSF. (MBH)	EAT DB/WB (F)	LAT DB/WB (F)	AIR FLOW (CFM)	HEAT TRANSF. (MBH)	EAT DB/WB (F)	LAT DB/WB (F)	EXHS. SIDE	SUPP. SIDE							
ERV01	SEC.CK.PT	O/AIR	70	5885	75/63	-	100	5885	95/75	86/71	70	3071	70/55	-	100	3071	0/-1	30/27	0.5	0.5	-	-	0.08	120/1/60	41	39	1, 2

NOTES:

1. PROVIDE VARIABLE SPEED DRIVES FOR SUPPLY AND EXHAUST FAN MOTORS.
2. PROVIDE MERV 8 PLEATED FILTERS AT EXHAUST AND SUPPLY AIR INLETS TO HEAT RECOVERY UNIT.

GROUND SOURCE HEAT PUMP SCHEDULE

MARK	LOCATION	SERVICE	TYPE	FAN DATA			COOLING MODE						HEATING MODE					WATER SIDE			
				MIN. AIR FLOW CAP. (CFM)	MINIMUM ESP (IN. WC.)	FAN MOTOR ECM (HP)	ENTERING AIR (DB/WB,°F)	LEAVING AIR (DB/WB,°F)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	MAX. WATER TEMP. (°F)	HEAT REJECTED (MBH)	ENTERING AIR TEMP. (°F)	LEAVING AIR TEMP. (°F)	TOTAL CAPACITY (MBH)	MIN. WATER TEMP. (°F)	HEAT ABSORBED (MBH)	WATER FLOW RATE (GPM)	PRESSURE DROP (IN. WC)	WATER GLYCOL SOL. (TYPE/%)	WATER SOURCE
GSHP01	STAIRWELL #3	ELEV. LOBBY LVL 5A	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP02	STAIRWELL #3	ELEV. LOBBY LVL 4A	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP03	STAIRWELL #3	ELEV. LOBBY LVL 3A	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP04	STAIRWELL #3	ELEV. LOBBY LVL 2A	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP05	STAIRWELL #3	ELEV. LOBBY LVL1A	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP06	STAIRWELL #1	ELEV. LOBBY LVL 5	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP07	STAIRWELL #1	ELEV. LOBBY LVL 4	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP08	STAIRWELL #1	ELEV. LOBBY LVL 3	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP09	STAIRWELL #1	ELEV. LOBBY LVL 2	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP10	STAIRWELL #1	ELEV. LOBBY LVL 1	HORIZONTAL	400	0.25	1/2	76.4/63.0	58.0/55.8	10,470	11,150	95	15.0	67.6	125	32,670	45	23.3	5.9	6.5	10.0	CLSD. WELL
GSHP11	MAINT. OFFICE	GF04109	HORIZONTAL	1,084	0.4	1/2	76.3/63.0	58.0/56.3	20,580	22,015	95	38.2	67.6	125	69,300	45	20.1	6.0	6.5	10.0	CLSD. WELL
GSHP12	COMM. ROOM	GF04111	HORIZONTAL	960	0.4	1/2	76.3/63.0	55.0/55.0	22,390	22,660	95	38.2	67.6	120	55,200	45	26.7	6.0	6.5	10.0	CLSD. WELL
GSHP13	ENTRY CNTRL BLDG.	ENTRY CNTRL BLDG.	VERTICAL	1,300	0.4	1/2	77.4/63.9	55.0/53.1	34,935	40,340	95	42.2	66.9	120	11,650	45	22.6	6.8	7.4	10.0	CLSD. WELL

NOTES:

1. MECHANICAL TO PROVIDE STARTERS.
2. CONTRACTOR SHALL VERIFY PUMP PERFORMANCE OVER THE ENTIRE RANGE OF OPERATION BASED ON FLUID AND CONCENTRATION USED.

GROUND SOURCE HEAT PUMP SCHEDULE (CONTINUATION)

MARK	FILTER DATA		ELECTRICAL DATA		UNIT DIMENTSIONS				SUPPLY/RETURN PIPE SIZE (IN.)	UNIT WEIGHT (LBS)	NOTES
	FILTER TYPE	FILTER SIZE (IN. x IN.)	UNIT MCA	V/ø/HZ	L (IN.)	W (IN.)	H (IN.)	WEIGHT (LBS)			
GSHP01	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP02	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP03	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP04	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP05	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP06	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP07	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP08	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP09	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP10	REPLACE	(2) 18X18	19.6	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP11	REPLACE	(2) 18X18	20.8	208/60/1	65.2	22.4	19.3	266	0.75/0.75	266	1, 2
GSHP12	REPLACE	28 X 24	20.8	208/60/1	22.4	25.6	52.5	268	0.75/0.75	268	1, 2
GSHP13	REPLACE	28 X 30	22.3	208/60/1	25.4	30.6	50.5	327	0.75/0.75	327	1, 2

NOTES:

1. MECHANICAL TO PROVIDE STARTERS.
2. CONTRACTOR SHALL VERIFY PUMP PERFORMANCE OVER THE ENTIRE RANGE OF OPERATION BASED ON FLUID AND CONCENTRATION USED.

US Army Corps of Engineers ®
BALTIMORE DISTRICT

MARK | DESCRIPTION | DATE | APPR. | MARK | DESCRIPTION | DATE | APPR.

Rev.

Designed by: JH
Dwn. by: DRC
Ckd. by: JB
Submitted by: SOWDAT J. REID
Date: 01/10/13
Drawing No.: F-141-62-101
Contract Number:
Plot Scale: 1:1
Plot Date:
File Number:
Size: ANSI D
File Name: 0026M-601P.DWG

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT
BALTIMORE, MARYLAND

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SCIF
U.S. ARMY INTELLIGENCE AND SECURITY COMMAND
FORT BELVOIR, VIRGINIA

MECHANICAL SCHEDULES

SHEET IDENTIFICATION
M-601P

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