

### EXHAUST FANS

FAN NO.	LOCATION	SERVICE	MODEL NO. *	FAN TYPE	CAPACITY CFM	S.P. *W.G.	ROOF OPENING SQ	TIP SPEED FPM	EST. FAN RPM	SONES	DRIVE	MOTOR			ELECTRICAL CHARACTERISTICS	ACCESSORIES	REMARKS	INTER-LOCK WITH
												TYPE	H.P.	R.P.M.				
EF-3	BLOWER BLDG.	COOLING VENT.	GB-200 <sup>cc</sup>	PRV	3440	0.25	20-1/2	4051	724	9.8	BELT	O.D.P.	1/2	1750	115/60/1	MOTORIZED DAMPER, ROOF CURB, EXTENDED BASE	FUTURE FAN. PROVIDE ROOF CURB ONLY AT THIS TIME	WL-5
EF-4	CONTROL BLDG.	COOLING VENT.	GB-160 <sup>a</sup>	PRV	2000	0.45	18-1/2	4030	926	10.3	BELT	O.D.P.	1/3	1750	115/60/1	MOTORIZED DAMPER, ROOF CURB, EXTENDED BASE		GV-1
EF-5	MAIN BLDG.	07	GB-100 <sup>a</sup>	PRV	1140	0.25	14-1/2	4366	1499	9.2	BELT	O.D.P.	1/4	1750	115/60/1	B.D. DAMPER, ROOF CURB, EXTENDED BASE		
EF-6	MAIN BLDG.	08	GB-100 <sup>a</sup>	PRV	1140	0.25	14-1/2	4366	1499	9.2	BELT	O.D.P.	1/4	1750	115/60/1	B.D. DAMPER, ROOF CURB, EXTENDED BASE		
EF-7	MAIN BLDG.	FUME HOOD	122 BCV <sup>b</sup>	UTIL.SET	850	1.0	11 <sup>ø</sup>	4510	1405	-	BELT	O.D.P.	1/4	1750	115/60/1	OUTLET SHUTTERS, WEATHER COVER, DRAIN IN LOW POINT FAN SCROLL.	FAN CONSTRUCTION TO BE EXPLOSION PROOF.	SF-3

\* BASED ON: a: GREENHECK b: TWIN CITY FAN & BLOWER cc: FUTURE GREENHECK FAN

### SUPPLY FANS

FAN NO.	LOCATION	SERVICE	MODEL NO. *	FAN TYPE	CAPACITY CFM	S.P. *W.G.	ROOF OPENING RD	TIP SPEED FPM	EST. FAN RPM	SONES	DRIVE	MOTOR			ELECTRICAL CHARACTERISTICS	ACCESSORIES	REMARKS
												TYPE	H.P.	R.P.M.			
SF-3	TRICKLING FILTER ROOF	SUPPLY	FLR-18 <sup>a</sup>	AXIAL	5000	0.30	18	-	2370	-	BELT	T.E.F.C.	1-1/2	1725	460/60/3	CURB PANEL, HOOD, MOTOR DRIVE CANOPY, BACKDRAFT DAMPER	
SF-3	TRICKLING FILTER ROOF	SUPPLY	FLR-18 <sup>a</sup>	AXIAL	5000	0.30	18	-	2370	-	BELT	T.E.F.C.	1-1/2	1725	460/60/3	CURB PANEL, HOOD, MOTOR DRIVE CANOPY, BACKDRAFT DAMPER	
SF-5	MAIN BLDG.	LAB MAKE-UP	BSQ-100 <sup>b</sup>	IN-LINE	820	0.35	-	3734	1275	9.3	BELT	O.D.P.	1/4	1725	115/60/1	VIBRATION ISOLATORS	

\* BASED ON: a: CEILCOTE b: GREENHECK

### CABINET UNIT HEATERS

UNIT NO.	LOCATION	MODEL NO. *	UNIT SIZE	ENCLOSURE		MAX. LENGTH INCHES	FAN CFM @ HIGH SPEED	AIR SPEEDS	ENT. F.	LVG. F.	WATER		HEATING CAPACITY MBH	MOTOR		ELECTRICAL CHARACTERISTICS	FILTER TYPE	CONTROLS	REMARKS
				GAUGE	INCHES						ENT. F.	LVG. F.		GPM	H.P.				
CUH-1	MAIN BLDG.	F-1000	02	16	35	230	2	60	126	180	160	1.7	16.4	1/10	1050	115/60/1	T.A.	UNIT MTD. T-STAT	

\* BASED ON: STERLING

### FURNACES

UNIT NO.	LOCATION	MODEL NO. *	TYPE	HEATING		AIR VOLUME CFM	E.S.P. *W.G.	MOTOR HP	DRIVE	ELECTRICAL CHARACTERISTICS	AIR FLOW	FILTER TYPE	REMARKS
				INPUT MBH	OUTPUT MBH								
GF-1	MECH. MEZZ	GSR21Q3-50	PULSE	50.0	47.0	1150	0.50	1/3	DIRECT	115/60/1	HORIZ	T.A.	W/ CONCENTRIC VENT/INTAKE AIR ROOF TERMINATION KIT, PROGRAMMABLE T-STAT

\* BASED ON: LENNOX

### GAS-FIRED UNIT HEATERS

UNIT NO.	LOCATION	MODEL NO. *	UNIT TYPE	FAN TYPE	CFM	AIR ENT. F.	GAS			POWER VENTER	H.P.	RPM	ELECTRICAL CHARACTERISTICS	CONTROLS	REMARKS
							INLET PRESSURE P.S.I.G.	INPUT MBH	OUTPUT MBH						
UH-4	07	GHND-012	HORIZ	PROP	1650	60	2	125.0	100.0	YES	1/10	1050	115/60/1	120 V T-STAT	
UH-5	07	GHND-012	HORIZ	PROP	1650	60	2	125.0	100.0	YES	1/10	1050	115/60/1	120 V T-STAT	
UH-6	08	GHND-012	HORIZ	PROP	1650	60	2	125.0	100.0	YES	1/10	1050	115/60/1	120 V T-STAT	
UH-7	08	GHND-012	HORIZ	PROP	1650	60	2	125.0	100.0	YES	1/10	1050	115/60/1	120 V T-STAT	

\* BASED ON: TRANE

### GRAVITY VENTS

UNIT NO.	LOCATION	SERVING	MODEL NO. *	TYPE	CFM	S.P. *W.G.	ROOF OPENING SIZE		CURB HEIGHT INCHES	OVERALL HEIGHT INCHES	ACCESSORIES	REMARKS
							INCHES	INCHES				
GV-2	CONTROL BLDG.	VENTIL. SYS.	FABRA	INTAKE	2000	0.12	20	20	12	16	MOTORIZED DAMPER, ROOF CURB	
GV-3	07	GARAGE	FABRA	INTAKE	1140	0.10	16	16	12	16	GRAV. B.D. DMPR., ROOF CURB	
GV-4	08	GARAGE	FABRA	INTAKE	1140	0.10	16	16	12	16	GRAV. B.D. DMPR., ROOF CURB	

\* BASED ON: GREENHECK

### DUCT FURNACES

UNIT NO.	LOCATION	SERVICE	MODEL NO. *	DESIGN CFM	HEATING SECTION				ACCESSORIES	REMARKS		
					GAS	INLET PRESSURE PSIG	INPUT MBH	OUTPUT MBH				
DF-1	07	LAB MAKE-UP	EEDU-100	820	NAT	2	100.0	80.0	-15	75	SEE SPEC'S.	

\* BASED ON: REZNOR

### COOLING COILS

UNIT NO.	SERVING	MODEL NO. *	AIR VOLUME CFM	ENT. AIR		LVG. AIR		COOLING		PRESSURE DROP *W.G.	COIL TYPE	ROWS	AIR FLOW	REMARKS
				F. D.B.	F. W.B.	F. D.B.	F. W.B.	TOTAL MBH	SENSIBLE MBH					
CC-1	GF-1	CH23-31	1150	80	67	60	58	30.2	23.0	0.06	D/X	2	HORIZ	

\* BASED ON: LENNOX

### AIR-COOLED CONDENSING UNITS

UNIT NO.	LOCATION	MODEL NO. *	CAPACITY		AMB. TEMP. F.	SUCTION TEMP. F.	COMP. KW	COND. FAN H.P.	CIRCUIT AMPACITY	AIR FLOW	ELECTRICAL CHARACTERISTICS	REMARKS
			TOTAL MBH	TONS								
CU-1	MAIN BLDG. GRADE	HS23-311	30.0	2.5	95	40	3.1	1/6	16.4	UP	208/60/1	REFRIG. LINE KIT, TIMED-OFF CONTROL

\* BASED ON: LENNOX

### WALL LOUVERS

LOUVER NO.	LOCATION	SERVING	LENGTH INCHES	HEIGHT INCHES	DEPTH INCHES	FRAME TYPE	BLADE TYPE	REMARKS
								SEE (2) M2
WL-12 <sup>b</sup>	BLOWER BLDG.	BLOWER BLDG.	36	48	4	GALV.	DRAINABLE	5.41 SQ. FT. F.A.
WL-13 <sup>b</sup>	MAIN BLDG.	LAB MAKE-UP	16	36	4	GALV.	DRAINABLE	1.61 SQ. FT. F.A., W/ MOTORIZED DAMPER

\* BASED ON: a: SWARTWOUT b: CESCO SLS4-DB-38

### ELECTRIC WATER HEATERS

WATER HEATER NO.	LOCATION	SERVICE	MODEL NO. *	STORAGE CAPACITY GALLONS	ELECTRIC		CAPACITY GPH	TEMP. RISE F.	WORKING PRESSURE P.S.I.	ELECTRICAL CHARACTERISTICS	REMARKS
					UPPER ELEM. KW	LOWER ELEM. KW					
WH-1	MECH. MEZZ.	OFFICE/LAB	DEN-30	30	-	2.5	13	80	150	208/60/1	

\* BASED ON: A.O. SMITH

### HEAT RECOVERY UNITS

UNIT NO.	LOCATION	SERVING	TYPE	MODEL NO. *	RECOVERY		OUTSIDE AIR TEMP., F.		PRESSURE DROP *W.G.	ELECTRICAL CHARACTERISTICS
					CFM	EFF. %	ENT. LVG.	LVG.		
HRU-1	2ND LEVEL	EXHAUST & O.A.	AIR TO AIR	ERV110ENT	110	75	-13	53	0.4	115/60/1

\* BASED ON: BROAN

This drawing was prepared by  
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
*Thomas A. Wentz*  
DATE 09 OCT 95 REG. NO. 13809



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REVISIONS	DATE	DESCRIPTION	DESIGNED	TAW
			CHECKED	TAW
			DRAWN	SRS

GRAPHIC SCALE  
0 HORIZ.  
0 VERT.

CITY OF ELK RIVER  
WASTEWATER TREATMENT FACILITIES  
MECHANICAL EQUIPMENT SCHEDULES  
DATE OCT 1995 SHEET M11 OF M11 SHEETS PROJECT NO. 230-151