DIFFUSER, GRILLE, LOUVER, AND DAMPER SCHEDULE

TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	TYPE	SIZE IN (MM)	MOUNT	CONSTRUCTION	NOTES
FV-L601	SUPPLY AIR DAMPER	MAIN FLOOR	RUSKIN	TED50	THERMALLY INSULATED CONTROL DAMPER	12x12 (305x305)	WALL	EXTRUDED ALUMINUM	1, 4
FV-L602	RETURN AIR DAMPER	MAIN FLOOR	RUSKIN	TED50	THERMALLY INSULATED CONTROL DAMPER	8x8 (200x200)	DUCT	EXTRUDED ALUMINUM	1, 4
FV-L603	EXHAUST AIR DAMPER	MAIN FLOOR	RUSKIN	TED50	THERMALLY INSULATED CONTROL DAMPER	18x18 (460x460)	WALL	EXTRUDED ALUMINUM	1, 4
FV-L604	SUPPLY AIR DAMPER	MAIN FLOOR	RUSKIN	TED50	THERMALLY INSULATED CONTROL DAMPER	18x18 (460x460)	WALL	EXTRUDED ALUMINUM	1, 4
FV-L605	RETURN AIR DAMPER	LOWER LEVEL	RUSKIN	TED50	THERMALLY INSULATED CONTROL DAMPER	12x12 (305x305)	DUCT	EXTRUDED ALUMINUM	1, 4
GR-F66-1	SUPPLY AIR LOUVER	MAIN FLOOR	GREEENHECK	EHH-401	HEAVY DUTY FIXED DRAINABLE LOUVER	12x12 (305x305)	WALL	EXTRUDED ALUMINUM	2, 4
GR-F67-1	SUPPLY AIR LOUVER	MAIN FLOOR	GREEENHECK	EHH-401	HEAVY DUTY FIXED DRAINABLE LOUVER	18x18 (460x460)	WALL	EXTRUDED ALUMINUM	2, 4
GR-F66-2	EXHAUST AIR LOUVER	MAIN FLOOR	GREEENHECK	EHH-401	HEAVY DUTY FIXED DRAINABLE LOUVER	18x18 (460x460)	WALL	EXTRUDED ALUMINUM	2, 4
GR-F66-3	SUPPLY GRILLE	MAIN FLOOR	EH PRICE	152G/F/L/A/B12	DOUBLE DEFLECTION GRILLE	10x10 (250x250)	DUCT	EXTRUDED ALUMINUM	3, 4
GR-F67-2	SUPPLY GRILLE	LOWER LEVEL	EH PRICE	152G/F/L/A/B12	DOUBLE DEFLECTION GRILLE	10x10 (250x250)	DUCT	EXTRUDED ALUMINUM	3, 4
GR-F67-3	SUPPLY GRILLE	COMMINUTOR CHAMBER	EH PRICE	152G/F/L/A/B12	DOUBLE DEFLECTION GRILLE	7x7 (175x175)	DUCT	EXTRUDED ALUMINUM	3, 4
GR-F67-4	SUPPLY GRILLE	PUMP MOTOR ROOM	EH PRICE	152G/F/L/A/B12	DOUBLE DEFLECTION GRILLE	10x10 (250x250)	DUCT	EXTRUDED ALUMINUM	3, 4
GR-F67-5	SUPPLY GRILLE	PUMP ROOM	EH PRICE	152G/F/L/A/B12	DOUBLE DEFLECTION GRILLE	6x6 (150x150)	DUCT	EXTRUDED ALUMINUM	3, 4
GR-F66-4	RETURN GRILLE	MAIN FLOOR	EH PRICE	80G/A/B12	EGG GRATE FACE RETURN	8x6 (200x150)	DUCT	EXTRUDED ALUMINUM	3, 4
GR-F67-6	RETURN GRILLE	COMMINUTOR CHAMBER	EH PRICE	80G/A/B12	EGG GRATE FACE RETURN	7x7 (175x175)	DUCT	EXTRUDED ALUMINUM	3, 4
GR-F67-7	RETURN GRILLE	LOWER LEVEL	EH PRICE	80G/A/B12	EGG GRATE FACE RETURN	12x12 (305x305)	DUCT	EXTRUDED ALUMINUM	3, 4

NOTES:
1. LOW LEAK THERMALLY INSULATED VOLUME CONTROL DAMPER, OPPOSED ACTION BLADES. EQUIPPED WITH FACTORY INSTALLED MODULATING ACTUATOR NEMA 4X RATED, AIR FLOW POSITION CONTROLLED BY A POSITION CONTROLLER.
2. HEAVY GAUGE EXTRUDED ALUMINUM HORIZONTAL DRAINABLE LOUVER, 100 mm (4 in) DEPTH, (2) COAT KYNAR 70% FINISH. INSECT SCREEN. COLOR TO MATCH BUILDING EXTERIOR.
3. PROTECTED WITH WHITE POWDER CORROSION-RESISTANT COATING APPLIED BY MANUFACTURER
4. SUPPLIED BY MECHANICAL CONTRACTOR

AIR CONDITIONING UNIT SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	COOLING CAPACITY (RATED)		COOLING CAPACITY RANGE		MAX OUTDOOR INTAKE TEMPERATURE		SEER	ELECTRICAL			WEIGHT		MOUNTING	NOTES
					KW	MBH	KW	MBH	C	F		VOLT	PHASE	HZ	LBS	KG		
AC-L69	MAIN FLOOR	COOLING ONLY	MITSUBISHI ELECTRIC	MSY-GL24NA	6.6	22.5	2.4 - 9.2	8,200 - 31,400			20.5	230	1	60	37	17	INSIDE WALL	1, 2, 4, 5
CU-L68	OUTDOOR	COOLING ONLY	MITSUBISHI ELECTRIC	MUY-GL24NA-U1	6.6	22.5	2.4 - 9.2	8,200 - 31,400	46	115	20.5	230	1	60	119	54	OUTDOOR WALL	1, 3, 4, 5

NOTES:
1. ENERGY STAR WALL-MOUNTED AIR CONDITIONING SYSTEM. R410A REFRIGERANT.
2. WALL MOUNTED THERMOSTAT.
3. SNOW GUARDS, WIND DEFLECTOR FOR OUTDOOR UNIT.
4. WALL MOUNTED STEEL BRACKETS.
5. UNITS SUPPLIED BY MECHANICAL CONTRACTOR.

FAN SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	DRIVE TYPE	AIR		STATIC PRESSURE		MOTOR			ELECTRICAL			WEIGHT		DAMPER SIZE		NOTES
						CFM	L/S	I.W.C.	Pa	HP	KW	RPM	VOLT	PHASE	HZ	LBS	KG	IN	MM	
SF-F66	MAIN FLOOR	SUPPLY AIR	GREENHECK	BSQ-70-5	BELT	282	133	1.25	311	1/2	0.37	2318	575	3	60	76	34	12x12	305x305	1 - 3, 6
SF-F67	MAIN FLOOR	SUPPLY AIR	GREENHECK	BSQ-80-7	BELT	792	374	1.00	249	3/4	0.56	2430	575	3	60	79	36	12x12	305x305	4 - 6

NOTES:
1. CENTRIFUGAL INLINE FAN, HORIZONTAL MOUNTING, RIGHT SIDE DISCHARGE, ALUMINUM CONSTRUCTION, INTERNALLY INSULATED FAN HOUSING WITH 25mm FIBERGLASS DUCT LINER, INSULATED MOTOR COVER. MANUFACTURER'S APPLIED CORROSION RESISTANT POWDER PROTECTIVE COATING.
2. DISCONNECT SWITCH NEMA-4X PERMANENTLY LUBRICATED, SEALED BALL BEARING MOTOR. HANGING SPRING ISOLATORS KIT. ULC LISTED.
3. FILTER BOX WITH 51 mm ALUMINUM FILTER.
4. CENTRIFUGAL INLINE FAN, HORIZONTAL MOUNTING, INLINE DISCHARGE, ALUMINUM CONSTRUCTION, INTERNALLY INSULATED FAN HOUSING WITH 25mm FIBERGLASS DUCT LINER, INSULATED MOTOR COVER. MANUFACTURER'S APPLIED CORROSION RESISTANT POWDER PROTECTIVE COATING.
5. DISCONNECT SWITCH NEMA-4X PERMANENTLY LUBRICATED, SEALED BALL BEARING MOTOR. HANGING SPRING ISOLATORS KIT. ULC LISTED.
6. FANS SUPPLIED BY MECHANICAL CONTRACTOR.

ELECTRIC HEATERS SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	TYPE	HEAT OUTPUT		TEMPERATURE RISE		FAN				ELECTRICAL			WEIGHT		MOUNTING	NOTES
					BTUH	KW	°C	°F	HP	RPM	CFM	L/S	VOLT	PHASE	HZ	LBS	KG		
HCE-L60	MAIN FLOOR	TERMOLEC		DUCT HEATER	40,956	12.0							575	3	60			IN-DUCT	1 - 2, 11
HCE-L68	LOWER LEVEL	TERMOLEC		DUCT HEATER	47,782	14.0							575	3	60			IN-DUCT	1 - 2, 11
UH-L61	MAIN FLOOR	OUELLET	OAS10036AM	UNIT HEATER	34,120	10.0	25	45	1/30	1550	700	330	575	3	60	45	20	SUSPENDED	3 - 6, 11
UH-L62	LOWER LEVEL	OUELLET	OAS10036AM	UNIT HEATER	34,120	10.0	25	45	1/30	1550	700	330	575	3	60	45	32	SUSPENDED	3 - 6, 11
UH-L63	PUMP MOTOR ROOM	OUELLET	OAS04036AM	UNIT HEATER	13,648	4.0	14	25	1/30	1550	700	330	575	3	60	45	32	SUSPENDED	3 - 6, 11
UH-L64	PUMP CHAMBER	OUELLET	OWD03036	UNIT HEATER	10,236	3.0	8	14			700	330	575	3	60	70	32	SUSPENDED	7 - 11
UH-L65	COMMUNITOR CHAMBER	OUELLET	OWD03036	UNIT HEATER	10,236	3.0	8	14			700	330	575	3	60	70	32	SUSPENDED	7 - 11

NOTES:
1. ELECTRIC OPEN COIL IN-DUCT HEATER, CSA APPROVED, FLANGED TYPE, SUITABLE FOR DUCT SIZE PER DRAWING, GALVANIZED STEEL FRAME, STAINLESS STEEL COIL TERMINAL, FAIL SAFE AUTOMATIC RESET, BUILT-IN DISCONNECT SWITCH.
2. CONTROL TRANSFORMER, AIR FLOW INDICATING PRESSURE SWITCH, IN-DUCT AIR SUPPLY TEMPERATURE STAT FOR ENERGIZING AND DE-ENERGIZING, ELECTRONIC THERMOSTAT, INTERCONNECTED WITH HVAC CONTROLLER.
3. INDUSTRIAL SUSPENDED ELECTRIC UNIT HEATER, CSA LISTED. 18 GA CONSTRUCTION, EPOXY/POLYESTER POWDER PAINTED. ADJUSTABLE LOUVERS TO DIRECT AIR FLOW. HIGH-LIMIT TEMPERATURE CONTROL WITH AUTOMATIC RESET.
4. TOTALLY ENCLOSED FACTORY-LUBRICATED BALL BEARING FAN MOTOR. MOTOR IS THERMALLY PROTECTED. FAN DELAY PURGES HEATER OF RESIDUAL HEAT. FAN BLADES WITH ALMOND EPOXY/POLYESTER COATING.
5. TUBULAR HEATING ELEMENTS, FINNED STEEL. FACTORY INSTALLED CONTACTOR AND 208V CONTROL CIRCUIT. NEMA 4X WALL MOUNTED THERMOSTAT CONNECTED TO UNIT CONTROL TERMINAL BLOCK. DISCONNECT SWITCH.
6. FACTORY SUPPLIED CEILING MOUNTING BRACKETS ALOWING 360 ° ROTATION. MAXIMUM INSTALLATION HEIGHT - 3m.
7. INDUSTRIAL WASHDOWN UNIT HEATER. 16 Ga 304 STAINLESS STEEL, MOISTURE AND CORROSION RESISTANT HOUSING. ULC LISTED. ADJUSTABLE STAINLESS STEEL OUTLET LOUVERS. STAINLESS STEEL REAR PROTECTION. GRILLE
8. HIGH-LIMIT TEMPERATURE CONTROL WITH AUTOMATIC RESET. DISCONNECT SWITCH WITH LOCKABLE HANDLE. ANODDIZED ALUMINUM, DELAYED-ACTION FAN. ENCLOSED EPOXY COATED MOTOR WITH PERMANENTLY LUBRICATED BALL BEARING.
9. EPOXY PAINTED FAN TO RESIST MOISTURE AND CORROSION. SEALED TUBULAR HEATING ELEMENT WITH 316 STAINLESS STEEL FINS. EPOXY PAINT FINISH FOR CORROSION RESISTANT.
10. FACTORY SUPPLIED STAINLESS STEEL SWIVEL MOUNTING BRACKET FOR WALL OR CEILING MOUNTING. NEMA 4X WALL MOUNTED THERMOSTAT.
11. SUPPLIED BY MECHANICAL CONTRACTOR.

DRAWING NUMBER	REFERENCE DRAWINGS

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: 21.07.2023

NO.	REVISIONS	DATE	DESIGN	CHECK
0	ISSUED FOR TENDER	2023/07/20	SA	BLM

DILLON CONSULTING

DESIGNED BY: SA	CHECKED BY: BLM
DRAWN BY: HL	APPROVED BY: BLM
SCALE: NTS	RELEASED FOR CONSTRUCTION BY:
DATE: JUL. 2023	DATE:
CONSULTANT NO.: 22-3229	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
X. AFANASEV
Member
32647
REGISTERED PROFESSIONAL ENGINEER
21.07.2023
Rev. 0

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

RIVERBEND LIFT PUMPING STATION
2023 UPGRADES
MECHANICAL EQUIPMENT SCHEDULES

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0178L-M0010	001	0	A1

223229-10-P&ID-CON_PD2.dwg

A1 SIZE - 594mm x 841mm

DILLON CONSULTING LIMITED 1558 WILLSON PLACE, WINNIPEG, MANITOBA, R3T 0Y4, PHONE (204) 453-2301, FAX (204) 452-4412

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