

FAN SCHEDULE											
TAG	LOCATION	MFR.	MODEL	FLOW RATE		STATIC PRESURE		FAN [RPM]	MOTOR		NOTES
				[CFM]	[L/s]	[inWC]	[Pa]		[hp]	[kW]	
SF-1	Pump/Control Room	Greenheck	SS1-16-428-A	1500	708	0.554	138	1498	¾	0	1,2,3
EF-1	Dry Well	Greenheck	SQ-140HP-VG	500	236	0.5	125	924	¾	0	1,2,3

NOTES:
 1) FAN MOTOR - 115/60/1
 2) VARIABLE SPEED ECM MOTOR
 3) SPEED CONTROL BY OCCUPANCY & HAZARDOUS GAS

LOUVRE SCHEDULE											
TAG	MFR.	MODEL	LOCATION	% FREE AREA	NOMINAL SIZE (HxW)		AIR FLOW		STATIC PRESURE		NOTES
					[in x in]	[mm x mm]	[CFM]	[L/s]	[inWC]	[Pa]	
L-1	Price	DE439	56062	50.4	60x60	1500x1500	11000	5191	0.15	37	1,2
L-2	Price	DE439	56062	50.4	60x60	2100x1200	11000	5191	0.15	37	1,2
L-3	Price	DE439	56062	50.4	30x30	750x750	1000	472	0.02	5	1,2

NOTES:
 1) LOUVRES ARE EXTRUDED ALUMINUM CONSTRUCTION
 2) COLOR TO MATCH 56072 - CHARCOAL

DAMPER ACTUATOR SCHEDULE						
TAG	HP	DESCRIPTION	VOLTS	PHASE	POS	
MD-1	FRACTIONAL	GENSET INTAKE AIR DAMPER	24	1	NC	
MD-2	FRACTIONAL	GENSET EXHAUST AIR DAMPER	24	1	NC	
MD-3	FRACTIONAL	GENSET RECIRCULATION DAMPER	24	1	NO	
MD-4	FRACTIONAL	VENTILATION INTAKE AIR DAMPER	24	1	NO	

SEQUENCE OF OPERATION

- UNOCCUPIED**
- SUPPLY FAN SF-1 AND EXHAUST FAN EF-2 SHALL RUN AT LOW SPEED.
 - MOTORIZED DAMPER MD-4 SHALL BE SET AT A MINIMUM POSITION TO INTRODUCE 750 CFM INTO THE SUPERSTRUCTURE.
 - EF-1 SHALL RUN AT LOW SPEED TO EXHAUST 250 CFM FROM THE DRY WELL.
 - RELIEF DAMPER D-1 SHALL OPEN TO ALLOW EXCESS AIR OUT OF THE STRUCTURE.
- OCCUPIED**
- SF-1 SHALL RUN AT HIGH SPEED.
 - MOTORIZED DAMPER MD-4 SHALL OPEN TO 100% TO INTRODUCE 1500 CFM INTO THE SUPERSTRUCTURE.
 - EF-1 SHALL RUN AT HIGH SPEED TO EXHAUST 500 CFM FROM THE DRY WELL.
 - RELIEF DAMPER D-1 SHALL OPEN TO ALLOW EXCESS AIR OUT OF THE STRUCTURE.
- EMERGENCY**
- UPON DETECTION OF HAZARDOUS LEVELS OF COMBUSTIBLE GAS, MD-4 SHALL OPEN TO 100% AND SF-1 SHALL RUN AT HIGH SPEED.


NOTES

- EQUIPMENT IDENTIFICATION IS GENERIC. PROJECT SPECIFIC TAGGING STANDARD TO BE CONFIRMED BY THE CITY OF WINNIPEG AND COMMUNICATED TO MECHANICAL CONTRACTOR BEFORE PERMANENTLY MARKING EQUIPMENT.
- LOUVRES TO MATCH COLOR 56072, CHARCOAL.


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LOCATION APPROVED UNDERGROUND STRUCTURES			
SUPV. U/G STRUCTURES COMMITTEE	DATE		
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.			

B.M. ELEV.			
2	ISSUED FOR TENDER	15.12.23	EM
1	ISSUED FOR 95% REVIEW	15.12.02	EM
NO.	REVISIONS	YY.MM.DD	BY

 500 - 311 Portage Avenue, Winnipeg M8 Canada R3B 2B9 Tel. 204.489.5900 Fax. 204.453.9012 www.stantec.com			
DESIGNED BY	EM	CHECKED BY	JLT
DRAWN BY	EM	APPROVED BY	JLT
HOR. SCALE:	AS. NOTED	RELEASED FOR CONSTRUCTION:	
VERTICAL:		DATE	2015.11.11
DATE	2015.11.11	BY	

ENGINEER'S SEAL	
CONSULTANT DRAWING NO. M-601	

 THE CITY OF WINNIPEG PLANNING, PROPERTY & DEVELOPMENT	
ST. BONIFACE INDUSTRIAL PARK PHASE 2 WASTEWATER PUMPING STATION HVAC SCHEDULES	
SHEET	OF
I	I
CAD FILE DRAWING NUMBER 09351m-601.DWG	
CITY DRAWING NUMBER I-0215L-M0102-001	

PLOT DATE: 2016 01 07

BID OPPORTUNITY: 983-2015

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