EXHAUST FAN SCHEDULE									
FACTURER & MODEL TYPE CFM EXHAUST ESP ELECTRIC REMARKS	CONTROL								
HECK 52-30-610-BIO SIDEWALL - DIRECT DRIVE 8600 0.251 NE/60/L LO MITH FACTORY WALL COLLAR COL									
HECK 52-30-610-BIO SIDEWALL - DIRECT DRIVE 8.600 0,25" II5/60/I I.O WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD F	NERGIZED BY CO, NO2 PROVIDE WITH FACTORY MAGNETIC STARTER (AUTO / HAND / OFF) NERGIZED BY CO, NO2 PROVIDE WITH FACTORY MAGNETIC STARTER (AUTO / HAND / OFF)								
NHECK SI-16-428-B6 SIDEWALL - DIRECT DRIVE 1,964 0.15" 115/60/1 1/6 WITH GRAVITY SHUTTER AND WALL COLLAR	ON WITH DISCONNECT SWITCH 24/7/365 - PROVIDE FACTORY DISCONNECT SWITCH								
HECK 52-24-604-AIO SIDEMALL - DIRECT DRIVE 5,500 0.25" II5/60/I I.O WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD EINTECK SI-14-440-C8 SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD EINTECK SI-14-440-C8 SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD EINTECK SI-14-440-C8 SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD EINTECK SI-14-440-C8 SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD EINTECK SI-14-440-C8 SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD EINTECK SI-14-440-C8 SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR, OSHA GUARD, MOTORIZED DAMPER & 45 DEGREE WEATHER HOOD SIDEMALL - DIRECT DRIVE 600 0.15" II5/60/I 1/6 WITH FACTORY WALL COLLAR WITH GRAVITY SHUTTER AND WALL COLLAR WITH GRAVITY SHUTTER AND WALL COLLAR WITH GRAVITY SHUTTER AND WALL COLLAR WITH GRAVITY SHUTTER MOTORY SHUTTER AND WALL COLLAR WITH GRAVITY SHUTTER AND WALL COLLAR WITH GRAVITY SHUTTER WALL COLLAR WITH GRAVITY SHUTTER WALL COLLAR WITH GRAVITY SHUTTER WALL COLLAR WITH	NERGIZED BY CO, NO2 PROVIDE WITH FACTORY MAGNETIC STARTER (AUTO / HAND / OFF) ON WITH DISCONNECT SWITCH 24/7/365 - PROVIDE FACTORY DISCONNECT SWITCH								

	DESTRATIFICATION FAN SCHEDULE											
TAG	MANUFACTURER & MODEL	TYPE	CFM	ELECTRIC		REMARKS						
				POWER	AMP	REMARNS	CONTROL					
DF-I	LEADING EDGE 6000-I	INDUSTRIAL CEILING FAN	46,000	115/60/1	3	60" DIAMETER - 3 BLADES						
DF-2	LEADING EDGE 6000-I	INDUSTRIAL CEILING FAN	46,000	115/60/1	3	60" DIAMETER - 3 BLADES	PROVIDE 12008 SPEED CONTROLLER FOR 3 FANS 8 AMP					
DF-3	LEADING EDGE 6000-I	INDUSTRIAL CEILING FAN	46,000	115/60/1	3	60" DIAMETER - 3 BLADES	THE STATE OF THE S					
DF-4	LEADING EDGE 6000-I	INDUSTRIAL CEILING FAN	46,000	115/60/1	3	60" DIAMETER - 3 BLADES	PROVIDE 12003 SPEED CONTROLLER FOR I FAN 3 AMP					

	GAS UNIT HEATER SCHEDULE										
DTIII) DTIII											
TAG	MANUFACTURER & MODEL	INPUT	OUTPUT	FUEL	MOTOR HP	FLA	POWER	WEIGHT	REMARKS		
UH-I	TRANE GAPDOI2AD	125,000	100,000	LP GAS.	Ko	2.8	115/60/1	228 LBS	SEPARATED COMBUSTION, VERTICAL LOUVERS, INTERMITTENT PILOT, ALUMINIZED STEEL HEAT EXCHANGER		
UH-2	TRANE GAPDOI5AD	150,000	120,000	LP GAS.	1/4	4.0	115/60/1	256 LBS	SEPARATED COMBUSTION, VERTICAL LOUVERS, INTERMITTENT PILOT, ALUMINIZED STEEL HEAT EXCHANGER		
UH-3	TRANE GAPDOI2AD	125,000	100,000	LP GAS.	Ko	2,8	115/60/1	228 LB5	SEPARATED COMBUSTION, VERTICAL LOUVERS, INTERMITTENT PILOT, ALUMINIZED STEEL HEAT EXCHANGER		
UH-4	TRANE GAPDOI5AD	150,000	120,000	LP GAS.	<i>Y</i> ₄	4.0	115/60/1	256 LBS	SEPARATED COMBUSTION, VERTICAL LOUVERS, INTERMITTENT PILOT, ALUMINIZED STEEL HEAT EXCHANGER		
UH-5	TRANE GAPDOIOAD	100,000	80,000	LP GAS.	1/20	2.6	115/60/1	200 LBS	SEPARATED COMBUSTION, VERTICAL LOUVERS, INTERMITTENT PILOT, ALUMINIZED STEEL HEAT EXCHANGER		
UH-6	TRANE GAPDOI2AD	125,000	100,000	LP GAS.	Ko	2.8	115/60/1	228 LBS	SEPARATED COMBUSTION, VERTICAL LOUVERS, INTERMITTENT PILOT, ALUMINIZED STEEL HEAT EXCHANGER		

SHEETMETAL NOTES

- 1. All ductwork to be fabricated and installed per SMACNA Low Pressure Ductwork Standards.
- 2. Ductwork is shown diagrammatically and does not indicate all the offsets, rises and drops that will be required.
- 3. Exhaust fans and fan accessories are based on Greenheck - other manufactures will be considered.
- thickness with bird screen. 5. Motorized Dampers shall be Ruskin or Greenheck. 16 ga.

4. Exterior wall louvers to be by Ruskin or Greenheck. 6"

- galvanized frame with neoprene blade edge seals for fight closure.
- 6. Seal all connections between dampers and louvers watertight.
- Provide flashing and seal interface between building exterior wall and the louvers and exhaust hoods &fans.
- 8. Start, test and warranty (I-year) all fans and operable

UNIT HEATER VENTING

- 1. Unit heaters are to be vented per manufactures recommendation.
- 2. Both the vent and combustion air material shall be Type "B" UL listed vent pipe.
- 3. Flash the vent and combustion air pipes to the roof with a "Dectite" brand metal roof flashing.

CONTROL NOTES

- 1. It will be the Mechanical Contractor's responsibility to provide and install all controls and all control wiring. The Mechanical contractor can subcontract this work to a company specializing in controls or the contractor can do this work if it's employees are trained on the specific control systems being provided.
- 2. All control wiring that is run in concealed spaces to be plenum rated.
- All control wiring that is run exposed shall be Electrical Metallic Conduit (EMT) provided and installed by the mechanical contractor or his subcontractor.
- Carbon Monoxide and Nitrogen Dioxide System.
 Supply and install Carbon Monoxide and Nitrogen Dioxide system consisting of Two Control Panels, Four CO Sensors and Four NO2 Sensors.
- 4.2. System shall consist of TwO Macurco DPV-120 Control
- Panel (or equal by Kele)
 4.2.1. Externally visible LCD display.
 4.2.2. Lockable NEMA | Enclosure,
- 4.2.3. Fall Safe operation can be ignored, 4.3. Provide and install four CM-6 CO \$ NO2 sensors 4.3.1. Output; Fan Relay, Alarm Relay and 4-20mA current
- 4.3.2. Factory calibrated. 4.4. Sequence of Operation
- Upon detection of 25 ppm CO and/or 1 ppm NO2 in the Large Bay Activate EF-1\$2 and associated motorized dampers. Also open the two louver dampers in the Large Bay.
 Upon detection of 25 ppm CO and/or 1 ppm NO2 in the Small Bay Activate EF-4 and associated motorized damper. Also open the louver damper in the Small Bay.

 EF-3\$5 are to run continuously 24/7
- 4.4.1.3. EF-3\$5 are to run continuously 24/7. Provide and install a heating thermostat for UH-1.2.3.4.5 \$6. Thermostat to provide a low setpoint of 40 deq. F.

GENERAL NOTES

- 1. All systems are to be to meet the following Codes and
- I.I. ASHRAE 90.1 2007 Energy Standard for Commercial
- 1.2. ASHRAE 60.1 2007 Standard for Indoor Air Quality in Commercial Buildings.

 1.3. 2009 IECC - International Energy Conservation Code.

 1.4. NFPA - National Fire Protection Association Standards.
- Do not cut any structural members with pre-approval of structural engineer.

GAS PIPING NOTES

- I. All gas piping to be Schedule 40 Black Iron.
- 2. All gas piping is to be painted YELLOW with Rustoleum
- 3. All gas piping to be marked every 20' with a stenciled "LP GAS PIPING" or a Seton Brand pipe label.
- 4. At the unit heaters provide the following. 4.1. Drip leg with Tee.
- 4.2. Ga's rated shut off valve. 4.3. Union or UL listed flexible pipe connection.

WINTON SCOTT

ARCHITECTS

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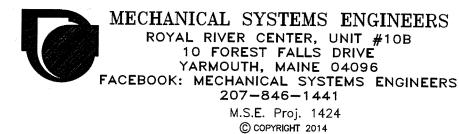
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PORTLAND PUBLIC WORKS 109 DISTRICT ROAD FACILITY Truck Bay Enclosure Project

109 District Road Portland, Maine

HEATING & VENTILATION SCHEDULES & NOTES

Scale: As Noted

JUNE 17, 2016