EXHAUST FAN SCHEDULE

TAG	LOCATION	TYPE	CFM	SP IN W.G.	RPM	SONES	WALL OPENING LxW (IN)	ELECTRICAL DATA			WEIGHT (LBS)	TYPICAL UNIT MFG & MODEL NO.	NOTES
								HP	VOLTS	PH			
SW-1	ENCLOSED STAIRS	SIDEWALL PROPELLER	75	0.12	984	1.8	14.25x14.25	1/50	115	1	15	GREENHECK SE	(1)(2)

NOTES: (1) PROVIDE SCR CONTROLS. (2) PROVIDE INTEGRAL 45° WEATHERHOOD AND GALVANIZED BIRDSCREEN. (3) PROVIDE INTEGRAL GRAVITY DAMPER. (WD-320)
(4) PROVIDE INTEGRAL WALL COLLAR.

A9 — SIDEWALL PROPELLER FAN

NOT TO SCALE

SPECIFICATIONS:

SCOPE OF WORK

1. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
2. DISCONNECT AND REFURBISH EXISTING FLOOR DRAINS AND ALL ASSOCIATED COMPONENTS. PATCH FLOOR SURROUNDING EXISTING FLOOR DRAINS TO MATCH SURROUNDING CONDITIONS. REINSTALL FLOOR DRAINS IN EXISTING OPENINGS AND RECONNECT TO EXISTING STORM DRAIN PIPING. FLOOR DRAINS SHALL BE INSTALLED IN COMPLETE WORKING ORDER. DRAIN SIZE SHALL MATCH EXISTING PIPE SIZE. WHERE FLOOR DRAINS CANNOT BE REFURBISHED REPLACE WITH NEW. ALL REFURBISHED FLOOR DRAINS SHALL BE RESTORED TO LIKE NEW CONDITIONS WHICH INCLUDES THE REPLACEMENT OF ANY/ALL MISSING FLOOR DRAIN COMPONENTS. SAND BLAST EXTERIOR AND PROVIDE NEW COAT OF EPOXY PAINT. FIELD VERIFY EXISTING CONDITIONS AND LOCATIONS OF FLOOR DRAINS.
3. EXISTING STORM DRAIN PIPING: REPLACE ALL EXISTING PVC PIPE WITH NEW STEEL PIPE, SEE SPECIFICATIONS. REFURBISH EXISTING CLEAN OUTS AND REPLACE ALL MISSING COMPONENTS. INSTALL NEW PIPING WATER TIGHT AND TEST STORM DRAIN SYSTEM FOR LEAKS OR PLUGGED PIPING. ALL LEAKS OR PLUGGED PIPING IN NEW AND EXISTING PIPING SHALL BE REPAIRED BY THE CONTRACTOR. FIELD VERIFY EXISTING CONDITIONS AND STORM DRAIN PIPING LOCATIONS.
4. DISCONNECT AND REMOVE EXISTING SIDEWALL EXHAUST FAN AND ASSOCIATED COMPONENTS, COMPLETE. EXHAUST FAN LOCATED AT THE TOP OF THE ATTACHED ENCLOSED STAIRWELL. PROVIDE NEW EXHAUST FAN AS SCHEDULED AND INSTALL WITHIN EXISTING OPENING. MODIFY EXISTING OPENING TO ACCOMMODATE NEW EXHAUST FAN. ALL MODIFICATIONS TO EXTERIOR SHALL MATCH EXISTING CONDITIONS. RECONNECT TO EXISTING POWER. INSTALL EXHAUST FAN PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ADJUST THERMOSTAT TO ENERGIZE FAN AT 75°F(ADJ.).
5. THE SCOPE OF WORK SHALL INCLUDE AN INSPECTION OF ALL VISIBLE PIPING AND ANY/ALL ISSUES CAUSING THE STORM DRAIN PIPING TO FUNCTION OTHER THAN ORIGINALLY INTENDED, SHALL BE REPAIRED/REPLACED AT THE COST OF THE CONTRACTOR. PROVIDE WRITTEN NOTIFICATION TO THE ENGINEER OF RECORD.

GENERAL

1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND ALL WORK NECESSARY, PRIOR TO BIDDING. VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS IN THE FIELD. GENERAL SCHEMATIC LAYOUT IS INDICATED; ALL OFFSETS, OBSTRUCTIONS, AND EXISTING CONFIGURATIONS AND CONSTRAINTS MUST BE FIELD VERIFIED.
2. OBTAIN NECESSARY PERMITS AND PAY ASSOCIATED FEES.
3. COORDINATE ANY SERVICE DISRUPTIONS WITH THE OWNER.
4. INSTALL ALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL LOCAL CODES AND STANDARDS.
5. DRAWINGS ARE DIAGRAMMATIC ONLY; FIELD-VERIFY ALL EXISTING CONDITIONS. COORDINATE INSTALLATIONS WITH OTHER TRADES. COORDINATE ELECTRICAL POWER REQUIREMENTS FOR ALL MOTORS.
6. THE INTENTION OF THESE CONTRACT DOCUMENTS IS TO CALL FOR FINISHED WORK, FULLY TESTED AND READY FOR OPERATION. ANY COMPONENTS OR LABOR NOT MENTIONED IN THE CONTRACT DOCUMENTS BUT REQUIRED FOR FUNCTIONING SYSTEMS SHALL BE PROVIDED. SHOULD THERE APPEAR TO BE ANY DISCREPANCIES OR QUESTIONS OF INTENT, THE CONTRACTOR SHALL REFER THE MATTER TO THE ARCHITECT FOR DECISION BEFORE START OF ANY RELATED WORK.
7. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
8. PERFORM WORK IN ACCORDANCE WITH LOCAL CODES.
9. SEAL ALL DUCT AND PIPE PENETRATIONS WITH FIRE SEALANT.
10. OBSERVE THE OWNER'S CLEANLINESS PROTOCOLS.

PIPING

1. PROVIDE ALL PIPING COMPLETE WITH FITTINGS, CLEAN OUTS, HANGERS, SUPPORTS, GUIDES, SLEEVES, AND ACCESSORIES.
2. STORM DRAIN PIPING SHALL BE GRADE A OR B, SCHEDULE 40, GALVANIZED STEEL PIPING WITH GROOVED-END FITTINGS DESIGNED FOR HUBLESS FITTINGS. HUBLESS JOINTS SHALL BE RUBBER GASKET AND SLEEVE OR CLAMP.
3. STORM DRAIN PIPING SHALL BE TESTED AND INSPECTED. INSPECTIONS AND TESTS SHALL BE PERFORMED ON THE PIPING INSTALLATION AS REQUIRED BY CODE. PERFORM TEST IN PRESENCE OF AUTHORITIES HAVING JURISDICTION. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. CAP ALL OUTLETS AND FILL PIPING SYSTEM TO OVERFLOWING FROM A POINT AT LEAST 10 FT ABOVE THE HIGHEST FLOOR. WATER LEVEL SHALL REMAIN CONSTANT THROUGHOUT A 2 HOUR TEST DURATION. PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY THE AUTHORITIES HAVING JURISDITION.
4. REPAIR OR REPLACE LEAKS OR DEFECTS WITHOUT ADDITIONAL COST.
5. PROVIDE ADEQUATE SUPPORT FOR PIPE AND CONTENTS TO PREVENT SAGGING, VIBRATION, OR SWAYING AND ALLOW FOR EXPANSION AND CONTRACTION. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED WHERE STRUCTURE CANNOT SUPPORT POINT LOADS.
6. MAKE CHANGES IN DIRECTION FOR DWV PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP BENDS. DO NOT CHANGE DIRECTION OF FLOW MORE THAN 90 DEGREES. USE PROPER SIZE OF STANDARD INCREASERS AND REDUCERS IF PIPES OF DIFFERENT SIZES ARE CONNECTED. REDUCING SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW IS PROHIBITED.
7. PITCH STORM DRAIN PIPING AT 1/4" PER FT. PIPING 4" AND LARGER MAY BE SLOPED AT 1/8" PER FT.

FANS

1. FANS SHALL COMPLY WITH AMCA, NEMA, AND BE UL LISTED. ELECTRICAL COMPONENTS LISTED IN ACCORDANCE WITH NFPA 70. FANS SHALL BE CLASSIFIED ACCORDING TO AMCA 99.
2. FANS SHALL BE DIRECT DRIVE PROPELLER TYPE WITH PERMANENTLY LUBRICATED, PERMANENTLY SEALED AND SELF ALIGNING BALL BEARINGS, DELIVERED AS AN FACTORY-ASSEMBLED UNIT.
3. FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED AND SELECTED FOR CONTINUOUS OPERATION AT MAXIMUM FAN SPEED AND MOTOR HORSEPOWER.
3. APPROVED MANUFACTURER'S INCLUDE THE FOLLOWING AND ARE SUBJECT TO COMPLIANCE WITH REQUIREMENTS:
   A. AEROVENT; A TWIN CITY FAN COMPANY
   B. COOK, LOREN COMPANY
   C. GREENHECK
4. FAN SHALL BE COMPLETE WITH FACTORY FAN BLADES, MOTOR, SHAFT, BEARINGS, DAMPERS, SUPPORTS, AND ACCESSORIES.
5. MOTOR ENCLOSURE SHALL BE GUARDED DRIPPROOF.
6. INSTALL POWER VENTILATORS LEVEL AND PLUMB.
7. COORDINATE INSTALLATION OF POWER VENTILATOR WITH EXISTING WALL OPENING.
8. VERIFY PROPER OPERATION OF FAN, DAMPERS AND ASSOCIATED COMPONENTS. TEST AND ADJUST FAN CONTROLS AND SAFETIES. ADJUST FAN FLOW RATE TO SCHEDULED AIRFLOW.
9. FAN SHALL BE SUPPLIED WITH INTEGRAL WALL COLLAR, WEATHER SHIELD HOOD, BIRD SCREEN, GRAVITY DAMPER, AND SOLID-STATE CONTROL CAPABLE OF REDUCING FAN SPEED FROM 100 TO 50 PERCENT.

NOTE:

1. SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS.

REV.	DESCRIPTION	DATE

ISSUED FOR PERMITTING
07-18-07

CURRENT ISSUE STATUS:

STATE OF MAINE — TODD A. ANDRE — No. 8241 — LICENSED PROFESSIONAL ENGINEER — 7-25-07

SMRT

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PROJECT: EXTERIOR IMPROVEMENTS & MODEL TENANT FIT-UP
110 FREE STREET
PORTLAND, MAINE

SHEET TITLE: PARKING GARAGE SPECIFICATIONS, SCHEDULE AND DETAIL

SCALE:	AS NOTED	DATE:	
PROJECT MANAGER:	JLH	GRAPHIC SCALE:	0" 1"
JOB CAP/DRAWN:	BAL		
A/E OF RECORD:	TAC	SHEET No.	M-003
SMRT CAD FILE:	M-003-07087		
PROJECT No.	07087		

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