Project Title: Sample Project

 Project ID:
 30206
 Prepared By:
 W.T
 Sheet:
 1 of 1

 Project Manger:
 T.M.
 Checked By:
 D.W.
 Date:
 8/20/15

FAN MOTOR HP CALCULATION

Notes:

Required Motor HP Calculation

$$BHP = \frac{CFM \times SP \times SpGr}{6356 \times FanEfficiency}$$

$$MotorHP = \frac{BHP}{Motor / DriveEfficiency}$$

Fan Motor HP			Remarks
Airflow	10,000	CFM	Design Flow
Static Pressure	2.40	inches	Calc. from Form 2A
Specific Gravity	1.00		S.G. of Air = 1.0
Fan Efficiency	70%	Percent	Typical: 65% to 85%
Brake HP =	5.39	BHP	
Motor/Drive Effriciency	85%		Typical: 80% to 95%
Motor HP =	6.35	HP	

Selection

HP: 7.5 HP motor

Manufacturer: Baldor

Model: xxxx

Notes: xxxx

REMARKS:

Preliminary Motor HP calculation for new roof exhaust fan.

Selected 7.5 HP motor.

ID:150818 (J.Smith)