Standard Version

Project Title:	Sample Project				
Project ID:	30206	**Prepared By:**	W.T	**Sheet:**	1 of 1
Project Manger:	T.M.	**Checked By:**	D.W.	**Date:**	2/4/18

CENTRIFUGAL PUMP MOTOR HP CALCULATION

Project Description

CHW-P1

$$BHP = \frac{GPM \times HD \times SpecificGravity}{3960 \times PumpEfficiency} \qquad MotorHP = \frac{BHP}{Motor\ /\ DrvieEfficiecny}$$

Pump Motor HP		Unit	Remarks
Pump GPM	**400**	GPM	Design Flow
Pump Head (HD)	**34**	ft	Calc. from Form 2A
Specific Gravity	**1.0**		Water at 60F
Pump Efficiency	**76%**		Typical: 60% to 80%
Break HP =	4.52	BHP	
Motor/Drive Efficiency	**85%**		Typical: 85% to 90%
Motor HP =	**5.32**	HP	

Notes:

Preliminary Calculation