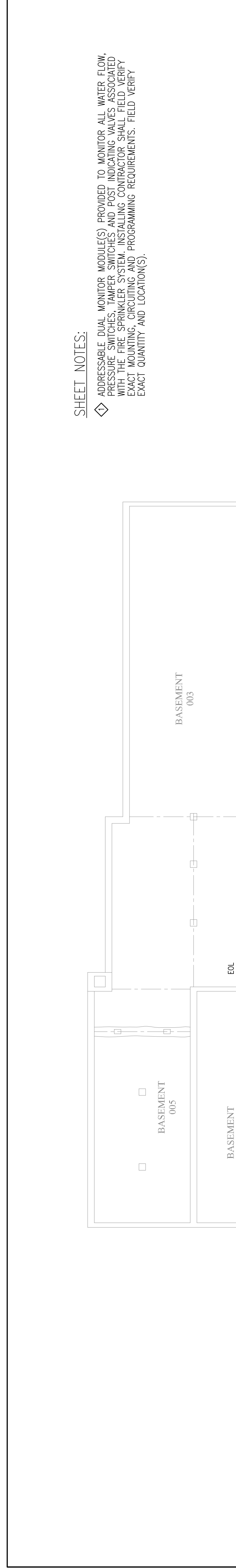


REVISION	DESCRIPTION	DATE
0	ISSUED FOR REVIEW & APPROVAL	5/3/2016

RESERVED FOR CITY STAMP



SHEET NOTES:

- ◇ ADDRESSABLE DIAL MONITOR MODULE(S) PROVIDED TO MONITOR ALL WATER FLOW, PRESSURE SWITCHES, TAMPER SWITCHES AND POST INDICATING VALVES ASSOCIATED WITH THE FIRE SPRINKLER SYSTEM. INSTALLING CONTRACTOR SHALL FIELD VERIFY EXACT MOUNTING, CIRCUITING AND PROGRAMMING REQUIREMENTS. FIELD VERIFY EXACT QUANTITY AND LOCATION(S).

FACP Battery Calculation		5/2/2016	
PROJECT NAME: PLEASANT AVE., PORTLAND ME			
Required Standby Time: 24 Hours		Required Alarm Time: 5 Minutes	
Regulated Load in Standby			
Device Type	Number of Devices	Current (Amps)	Total Current (Amps)
FACP - MS-9200UDLS MAIN CIRCUIT BOARD	1	X 0.14500	= 0.14500
ANN-80 - REMOTE ANNUNCIATOR	1	X 0.01500	= 0.01500
SD355 - SMOKE DETECTOR	21	X 0.00030	= 0.00630
MDP-300 - MONITOR MODULE	1	X 0.00075	= 0.00075
BG-12LX - PULL STATION	8	X 0.00030	= 0.00240
TOTAL STANDBY LOAD			0.16945
Regulated Load in ALARM			
Device Type	Number of Devices	Current (Amps)	Total Current (Amps)
FACP - MS-9200UDLS MAIN CIRCUIT BOARD	1	X 0.27500	= 0.27500
ANN-80 - REMOTE ANNUNCIATOR	1	X 0.04000	= 0.04000
MAX ALARM BELL - ALL ADDRESS DEVICES	1	X 0.40000	= 0.40000
NAC-1 (See Voltage Drop Calculations)	1	X 0.98800	= 0.98800
NAC-2 (Spare)	1	X 0.00000	= 0.00000
NAC-3 (Spare)	1	X 0.00000	= 0.00000
NAC-4 (Spare)	1	X 0.00000	= 0.00000
TOTAL ALARM LOAD			1.70300
Battery Requirements			
Standby Load Current (Amps)	0.16945	X	24.00000 = 4.06680
Alarm Load Current (Amps)	1.70300	X	0.08333 = 0.14192
Total Amperage Hours (before derating factor)			4.20872
Derating Factor			X 1.2
TOTAL AMPERE HOURS REQUIRED			5.05046
BATTERIES TO BE PROVIDED (2 - 12V)			7 AH

FPS1 Battery Calculation		5/2/2016	
PROJECT NAME: PLEASANT AVE., PORTLAND ME			
Required Standby Time: 24 Hours		Required Alarm Time: 5 Minutes	
AC Branch Current			
AC Branch Current: 3.2 Amps @ 120V			
Regulated Load in Standby			
Device Type	Number of Devices	Current (Amps)	Total Current (Amps)
FPS1 - FCPS-24FS6 MAIN CIRCUIT BOARD	1	X 0.06500	= 0.06500
TOTAL STANDBY LOAD			0.06500
Regulated Load in ALARM			
Device Type	Number of Devices	Current (Amps)	Total Current (Amps)
FPS1 - FCPS-24FS6 MAIN CIRCUIT BOARD	1	X 0.14500	= 0.14500
FFPS1-1 (See Voltage Drop Calculations)	1	X 0.99300	= 0.99300
FFPS1-2 (See Voltage Drop Calculations)	1	X 1.63700	= 1.63700
FFPS1-3 (See Voltage Drop Calculations)	1	X 1.47600	= 1.47600
FFPS1-4 (See Voltage Drop Calculations)	1	X 1.12100	= 1.12100
TOTAL ALARM LOAD			5.37200
Battery Requirements			
Standby Load Current (Amps)	0.06500	X	24.00000 = 1.56000
Alarm Load Current (Amps)	5.37200	X	0.08333 = 0.44767
Total Amperage Hours (before derating factor)			2.00767
Derating Factor			X 1.2
TOTAL AMPERE HOURS REQUIRED			2.40920
BATTERIES TO BE PROVIDED (2 - 12V)			7 AH

CUNNINGHAM
Security Systems

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PLEASANT AVENUE
PORTLAND, MAINE
BASEMENT FIRE ALARM PLAN & BATTERY CALCS

DRAWN	JPB	UNICAD JOB #16292
CHECKED	WAYNE B. HAWES	PROJECT # 90496
DATE	5/3/2016	
REVISION	0	
SCALE	1/8"=1'-0"	