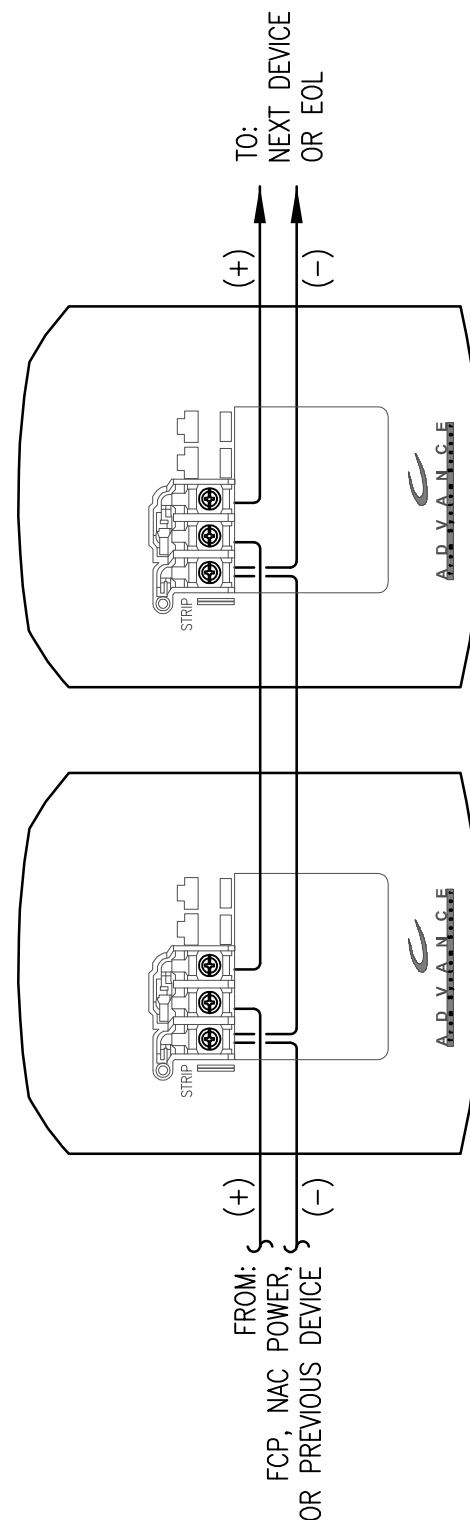


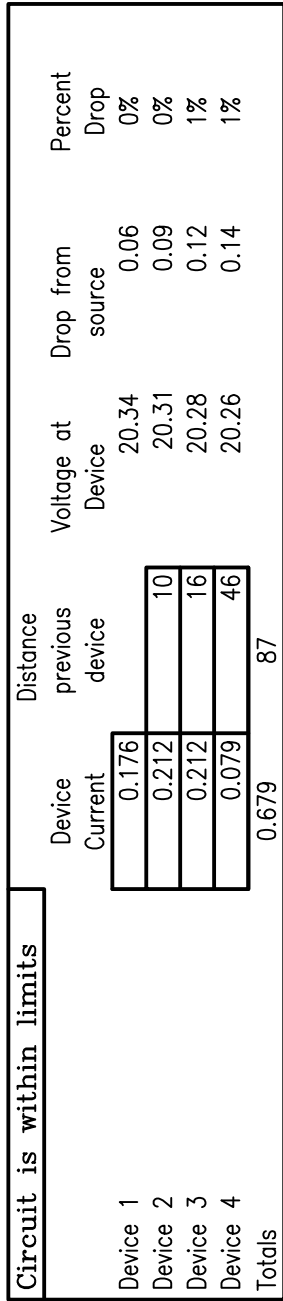
SMOKE DETECTOR WIRING DETAIL

SCHEMATIC: NO SCALE

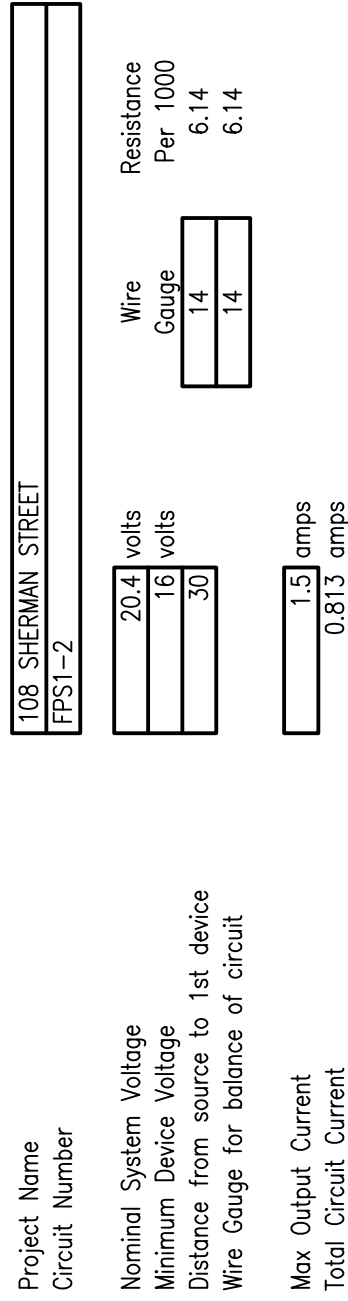


TYPICAL 2 WIRE STROBE WIRING DETAIL

SCHEMATIC: NO SCALE



NAC Circuit Voltage Drop Calculation	10/18/2013
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Circuit is within limits	Distance
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[illegible]

NAC Circuit Voltage Drop Calculation			10/18/2013						
Project Name									
108 SHERMAN STREET									
Circuit Number									
FPS1-3									
Nominal System Voltage	20.4 volts	<table><tr><td>Wire Gauge</td><td>14</td></tr><tr><td>Resistance Per 1000</td><td>6.14</td></tr><tr><td></td><td>6.14</td></tr></table>	Wire Gauge	14	Resistance Per 1000	6.14		6.14	
Wire Gauge	14								
Resistance Per 1000	6.14								
	6.14								
Minimum Device Voltage	16 volts								
Distance from source to 1st device	40								
Wire Gauge for balance of circuit									
Max Output Current	1.5 amps								
Total Circuit Current	0.446 amps								

Circuit is within limits		Device Current	Distance previous device	Voltage at Device	Drop from source	Percent Drop
Device 1		0.079		20.29	0.11	1%
Device 2		0.017	26	20.23	0.17	1%
Device 3		0.017	31	20.17	0.23	1%
Device 4		0.079	17	20.13	0.27	1%
Device 5		0.017	7	20.12	0.28	1%
Device 6		0.079	8	20.11	0.29	1%
Device 7		0.079	7	20.10	0.30	1%
Device 8		0.079	27	20.09	0.31	2%
Totals		0.446	163			


NAC Circuit Voltage Drop Calculation	10/18/2013
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1008 VERMONT STREET		Resistance									
FPS1-1-4		Per 1000									
Project Name	Wire Gauge	14	6.14								
Circuit Number	Wire Gauge for source of circuit	14	6.14								
<table><tr><td>Nominal System Voltage</td><td>20.4 volts</td></tr><tr><td>Minimum Device Voltage</td><td>16 volts</td></tr><tr><td>Distance from source to 1st device</td><td>60</td></tr><tr><td>Wire Gauge for balance of circuit</td><td></td></tr></table>				Nominal System Voltage	20.4 volts	Minimum Device Voltage	16 volts	Distance from source to 1st device	60	Wire Gauge for balance of circuit	
Nominal System Voltage	20.4 volts										
Minimum Device Voltage	16 volts										
Distance from source to 1st device	60										
Wire Gauge for balance of circuit											
Max Output Current		1.5 amps									
Total Circuit Current		0.378 amps									

Circuit is within limits		Distance	Voltage at Device	Drop from source	Percent drop
Device 1	Correct	0.017	20.26	0.14	1%
Device 2	Device 2	0.017	20.22	0.18	1%
Device 3	0.079	10	20.21	0.19	1%
Device 4	0.079	32	20.17	0.23	1%
Device 5	0.079	54	20.16	0.24	1%
Device 6	0.079	72	20.16	0.24	1%
Totals	0.378	140			

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