IDNET CHANNEL M1				SWITCH SETTINGS										
Address	Device Type	Point Type	Location Description		1	2	3	4	5	6	7	8	9	Variable
M1-1	PHOTO	SMOKE	BSMT ELECTRIC METER AREA	1-1	X							ON		
M1-2	OHEAT	HEAT	BASEMENT	1-2		X						ON		
M1-3	OHEAT	HEAT	BASEMENT UNIT STORAGE	1-3	X	X						ON		
M1-4	MCOP	UTILITY	BSMT UNIT #29	1-4			X					ON		
M1-5	ADRPUL	PULL	BSMT UNIT #29	1-5	X		X					ON		
M1-6	SPHOTO	SMOKE	BSMT UNIT #29	1-6		X	X					ON	ON	
M1-7	ADRPUL	PULL	BASEMENT NORTH	1-7	X	X	X					ON		
M1-8	MCOHS	UTILITY	BSMT BOILER ROOM	1-8				X				ON	ON	4098-9773
M1-9	MCOHS	UTILITY	BSMT LAUNDRY AREA	1-9	X			X				ON	ON	4098-9773
M1-10	ADRPUL	PULL	BASEMENT	1-10		X		X				ON		
M1-11	OHEAT	HEAT	BASEMENT	1-11	X	X		X				ON		
M1-12	OHEAT	HEAT	BSMT OIL TANKS	1-12			X	X				ON		
M1-13	MCOH	UTILITY	BASEMENT	1-13	X		X	X				ON		
M1-14	OHEAT	HEAT	BASEMENT	1-14		X	X	X				ON		
M1-15	OHEAT	HEAT	BASEMENT	1-15	X	X	X	X				ON		
M1-16	RIAM	DHOLDER	1ST FLR DOOR HOLDER	1-16					X			ON		
M1-17	SPHOTO	SMOKE	1ST FLR UNIT #3	1-17	X				X			ON	ON	
M1-18	MCOP	UTILITY	1ST FLR UNIT #3	1-18		X			X			ON		
M1-19	MCOPS	UTILITY	1ST FLR UNIT #1	1-19	X	X			X			ON	ON	4098-9773
M1-20	MCOPS	UTILITY	1ST FLR UNIT #2	1-20			X		X			ON	ON	4098-9773
M1-21	PHOTO	SMOKE	1ST FLR CORRIDOR	1-21	X		X		X			ON		
M1-22	MCOP	UTILITY	1ST FLR UNIT #4	1-22		X	X		X			ON		
M1-23	SPHOTO	SMOKE	1ST FLR UNIT #4	1-23	X	X	X		X			ON	ON	
M1-24	PHOTO	SMOKE	1ST FLR CORRIDOR	1-24				X	X			ON		
M1-25	ADRPUL	PULL	1ST FLR CORRIDOR	1-25	X			X	X			ON		
M1-26	MCOP	UTILITY	1ST FLR UNIT #6	1-26		X		X	X			ON		
M1-27	SPHOTO	SMOKE	1ST FLR UNIT #6	1-27	X	X		X	X			ON	ON	
M1-28	MCOP	UTILITY	1ST FLR UNIT #8	1-28			X	X	X			ON		
M1-29	SPHOTO	SMOKE	1ST FLR UNIT #8	1-29	X		X	X	X			ON	ON	
M1-30	PHOTO	SMOKE	1ST FLR CORRIDOR	1-30		X	X	X	X			ON		
M1-31	ADRPUL	PULL	1ST FLR CORRIDOR	1-31	X	X	X	X	X			ON		
M1-32	SPHOTO	SMOKE	1ST FLR UNIT #7	1-32						X		ON	ON	
M1-33	MCOP	UTILITY	1ST FLR UNIT #7	1-33	X					X		ON		
M1-34	MCOP	UTILITY	1ST FLR UNIT #5	1-34		X				X		ON		
M1-35	SPHOTO	SMOKE	1ST FLR UNIT #5	1-35	X	X				X		ON	ON	
M1-36	ADRPUL	PULL	1ST FLR ENTRANCE	1-36			X			X		ON		
M1-37					X		X			X		ON		
M1-38	MCOP	UTILITY	MEZZ UNIT #10	1-38		X	X			X		ON		
M1-39	SPHOTO	SMOKE	MEZZ UNIT #10	1-39	X	X	X			X		ON	ON	
M1-40	MCOP	UTILITY	MEZZ UNIT #12	1-40				X		X		ON		
M1-41	SPHOTO	SMOKE	MEZZ UNIT #12	1-41	X			X		X		ON	ON	
M1-42	SPHOTO	SMOKE	MEZZ UNIT #11	1-42		X		X		X		ON	ON	
M1-43	MCOP	UTILITY	MEZZ UNIT #11	1-43	X	X		X		X		ON		
M1-44	MCOP	UTILITY	MEZZ UNIT #9	1-44			X	X		X		ON		
M1-45	SPHOTO	SMOKE	MEZZ UNIT #9	1-45	X		X	X		X		ON	ON	
M1-46						X	X	X		X		ON		
M1-47	MCOP	UTILITY	2ND FLR UNIT #13	1-47	X	X	X	X		X		ON		
M1-48	SPHOTO	SMOKE	2ND FLR UNIT #13	1-48					X	X		ON	ON	
M1-49	MCOP	UTILITY	2ND FLR UNIT #14	1-49	X				X	X		ON		
M1-50	SPHOTO	SMOKE	2ND FLR UNIT #14	1-50		X			X	X		ON	ON	
M1-51	PHOTO	SMOKE	2ND FLR CORRIDOR	1-51	X	X			X	X		ON		
M1-52	ADRPUL	PULL	2ND FLR CORRIDOR	1-52			X		X	X		ON		
M1-53	MCOP	UTILITY	2ND FLR UNIT #15	1-53	X		X		X	X		ON		
M1-54	SPHOTO	SMOKE	2ND FLR UNIT #15	1-54		X	X		X	X		ON	ON	
M1-55	PHOTO	SMOKE	2ND FLR CORRIDOR	1-55	X	X	X		X	X		ON		
M1-56	RIAM	DHOLDER	2ND FLR CORRIDOR	1-56				X	X	X		ON		
M1-57	MCOP	UTILITY	2ND FLR UNIT #16	1-57	X			X	X	X		ON		
M1-58	SPHOTO	SMOKE	2ND FLR UNIT #16	1-58		X		X	X	X		ON	ON	
M1-59	MCOP	UTILITY	2ND FLR UNIT #18	1-59	X	X		X	X	X		ON		
M1-60	SPHOTO	SMOKE	2ND FLR UNIT #18	1-60			X	X	X	X		ON	ON	
M1-61	MCOP	UTILITY	2ND FLR UNIT #20	1-61	X		X	X	X	X		ON		
M1-62	SPHOTO	SMOKE	2ND FLR UNIT #20	1-62		X	X	X	X	X		ON	ON	
M1-63	PHOTO	SMOKE	2ND FLR CORRIDOR	1-63	X	X	X	X	X	X		ON		
M1-64	ADRPUL	PULL	2ND FLR CORRIDOR	1-64							X	ON		
M1-65	MCOP	UTILITY	2ND FLR UNIT #17	1-65	X						X	ON		
M1-66	SPHOTO	SMOKE	2ND FLR UNIT #17	1-66		X					X	ON	ON	
M1-67	MCOP	UTILITY	2ND FLR UNIT #19	1-67	X	X					X	ON		
M1-68	SPHOTO	SMOKE	2ND FLR UNIT #19	1-68			X				X	ON	ON	
M1-69					X		X				X	ON		
M1-70						X	X				X	ON		
M1-71	MCOP	UTILITY	3RD FLR UNIT #21	1-71	X	X	X				X	ON		
M1-72	SPHOTO	SMOKE	3RD FLR UNIT #21	1-72				X			X	ON	ON	
M1-73	MCOP	UTILITY	3RD FLR UNIT #22	1-73	X			X			X	ON		
M1-74	SPHOTO	SMOKE	3RD FLR UNIT #22	1-74		X		X			X	ON	ON	
M1-75	SPHOTO	SMOKE	3RD FLR CORRIDOR	1-75	X	X		X			X	ON	ON	
M1-76	SPHOTO	SMOKE	3RD FLR CORRIDOR	1-76			X	X			X	ON	ON	
M1-77	RIAM	DHOLDER	3RD FLR CORRIDOR	1-77	X		X	X			X	ON		
M1-78	ADRPUL	PULL	3RD FLR CORRIDOR	1-78		X	X	X			X	ON		
M1-79	MCOP	UTILITY	3RD FLR UNIT #23	1-79	X	X	X	X			X	ON		
M1-80	SPHOTO	SMOKE	3RD FLR UNIT #23	1-80					X		X	ON	ON	
M1-81	MCOP	UTILITY	3RD FLR UNIT #24	1-81	X				X		X	ON		
M1-82	SPHOTO	SMOKE	3RD FLR UNIT #24	1-82		X			X		X	ON	ON	
M1-83	ADRPUL	PULL	3RD FLR CORRIDOR	1-83	X	X			X		X	ON		
M1-84	MCOP	UTILITY	3RD FLR UNIT #25	1-84			X		X		X	ON		
M1-85	SPHOTO	SMOKE	3RD FLR UNIT #25	1-85	X		X		X		X	ON	ON	
M1-86	MCOP	UTILITY	3RD FLR UNIT #26	1-86		X	X		X		X	ON		
M1-87	SPHOTO	SMOKE	3RD FLR UNIT #26	1-87	X	X	X		X		X	ON	ON	
M1-88	MCOP	UTILITY	3RD FLR UNIT #28	1-88				X	X		X	ON		
M1-89	SPHOTO	SMOKE	3RD FLR UNIT #28	1-89	X			X	X		X	ON	ON	
M1-90	PHOTO	SMOKE	3RD FLR CORRIDOR	1-90		X		X	X		X	ON		
M1-91	MCOP	UTILITY	3RD FLR UNIT #27	1-91	X	X		X	X		X	ON		
M1-92	SPHOTO	SMOKE	3RD FLR UNIT #27	1-92			X	X	X		X	ON	ON	
M1-93	ADRPUL	PULL	3RD FLR CORRIDOR	1-93	X		X	X	X		X	ON		
M1-94						X	X	X	X		X	ON		
M1-95	HEAT	HEAT	ROOF LEVEL	1-95	X	X	X	X	X		X	ON		
M1-96										X	X	ON		
M1-97					X					X	X	ON		
M1-98						X				X	X	ON		
M1-99					X	X				X	X	ON		
M1-100	NAC4PT	SIGNAL	BSMT ELECTRIC METER AREA	1-100			X			X	X	ON		

84 CARLETON 4007es FACP

Module	Qty	Description		Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment							
4007-9201	1	FIRE ALARM EPS CONTROL PANEL 100 PT ADDR. – RED	*	0.1800	0.1800	0.1850	0.1850
4007-9806	1	SDACT MODULE		0.0600	0.0600	0.1260	0.1260
		Panel Totals			0.2400		0.3110
IDNet Addressable Devices (SLC)							
4099-9004	11	ADDRESSABLE SINGLE ACTION MANUAL STATION	*	Constant current draw of .8mA standby and 1mA alarm per address used. Devices requiring additional current are accounted for in the section labeled "Miscellaneous Peripheral Devices Requiring Additional System Power".			
4090-9002	3	IDNET RELAY IAM	*				
4098-9714	66	TRUEALARM PHOTO SMOKE SENSOR					
4098-9733	10	TRUEALARM HEAT SENSOR					
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC	*				
4098-9792	15	TRUEALARM SENSOR BASE	*				
4098-9772	29	TRUEALARM 520HZ SOUNDER BASE W/ REMOTE LED	*				
4098-9773	4	TRUEALARM 520HZ SOUNDER BASE W/ CO MOD, REM LED	*				
4098-9770	28	TRUEALARM SENSOR BASE WITH CO MODULE	*				
Miscellaneous Peripheral Devices That Require (Additional) System Power							
4606-9202BA	1	COLOR TOUCHSCRN ANNUN FOR 4007ES FACP (RUI)		0.0700	0.0700	0.1240	0.1240
Notification Appliances							
4906-9202	3	ADDRESSABLE CEILING MNT MC V/O, RED	15	0.0008	0.0024	0.0600	0.1800
4906-9228	7	ADDRESSABLE CEIL MNT MC A/V, RED	15	0.0008	0.0056	0.0750	0.5250
49AV-WRF	3	A/V WALL MT, RED, FIRE LABEL	15	0.0008	0.0024	0.0590	0.1770
49AV-WRF	1	A/V WALL MT, RED, FIRE LABEL	30	0.0008	0.0008	0.0670	0.0670
49VO-WRF	1	VO, WALL MT, RED, FIRE LABEL	30	0.0008	0.0008	0.0570	0.0570
		Peripheral Totals			0.0820		1.1300
		Added Current for EPS Conversion of 24 to 29 Volt IDNac Devices			0.0000		0.5735
		RUI Totals	1		0.0035		0.0035
		Address Totals	91 Addresses		0.0728		0.0910
		System Totals*:	Standby		0.3983	Alarm	2.1090

* Device Address current draw included below (See Additional Current Draws):

1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

Battery Set #1 (Cabinet/Charger #1)			Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set:						
4007es				0.3220		1.4410
		Sub Total		0.3220		1.4410
Additional Current Draws:						
IDNac Current Boost for 29vdc Regulated Output **				0.0000		0.5735
RUI Connected Peripheral Devices	1	x 0.0035		= 0.0035	x 0.0035	= 0.0035
MAPNET/IDNet Device Address Communication Current	91	x 0.000800		= 0.0728	x 0.001000	= 0.0910
		Sub Total		0.3983		2.1090
Spare addressable point capacity 0%	0	x 0.0008		= 0.0000	x 0.001	= 0.0000
		Total		0.3983		2.1090
Standby Time = 24 Hrs		x 0.3983		= 9.5592 Standby Ah		
Alarm Time = 5 Min		0.08333 x 2.109		= 0.1758 Alarm Ah		
				9.7350		
Additional Spare Battery Capacity = 0%			+	0.0000		
				9.7350		
Battery Discharge Factor = 20%			+	1.9470		
Minimum Battery Required	2081-9288 12AH (2x)			11.6819		
Battery Supplied	2081-9288 12AH (2x)					

84 CARLETON 4009 NAC

Module	Qty	Description		Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment							
4009-9201	1	4009 IDNET NAC EXTENDER, 120 VAC		0.0850	0.0850	0.1850	0.1850
4009-9807	1	NAC CARD, 4PT, IDNET		0.0400	0.0400	0.0400	0.0400
		Panel Totals			0.1250		0.2250
Notification Appliances							
4098-9772	29	TRUEALARM 520HZ SOUNDER BASE W/ REMOTE LED	*	0.0000	0.0000	0.1390	4.0310
4098-9773	4	TRUEALARM 520HZ SOUNDER BASE W/ CO MOD, REM LED	*	0.0000	0.0000	0.1390	0.5560
4905-9835	10	TEMPORAL CODE 4 MODULE		0.0002	0.0018	0.0150	0.1500
		Peripheral Totals			0.0018		4.7370
		Added Current for EPS Conversion of 24 to 29 Volt IDNac Devices			0.0000		0.0000
		RUI Totals	0		0.0000		0.0000
		Address Totals	0 Addresses		0.0000		0.0000
		System Totals*:	Standby		0.1268	Alarm	4.9620

Battery Set #1 (Cabinet/Charger #1)			Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set:						
4009				0.1268		4.9620
		Sub Total		0.1268		4.9620
		Total		0.1268		4.9620
Standby Time = 24 Hrs		x 0.1268		= 3.0432 Standby Ah		
Alarm Time = 5 Min		0.08333 x 4.962		= 0.4135 Alarm Ah		
				3.4567		
Additional Spare Battery Capacity = 0%			+	0.0000		
				3.4567		
Battery Discharge Factor = 20%			+	0.6913		
Minimum Battery Required	2081-9272 6.2AH (2x)			4.1480		
Battery Supplied	2081-9272 6.2AH (2x)					

84 CARLETON 4009 NAC VOLTAGE DROPS

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

NOTIFICATION CIRCUIT DESCRIPTION	Power Supply	Plan Ckt.	Dist. (D) Feet	Wire Gauge	Wire Res. / Ft. (R)	Total Alarm (A)	V. Drop (A*2D*R)	Volt @ End	% Volt Drop	Min Device Voltage	Max Distance
TC4 TRIGGER CIRCUIT	4009	H1	5	14ga	0.0031	0.075	0.002	19.498	0.01%	16vdc	7600 Ft.
SOUNDER BASES CIRCUIT 1 BSMT	4009	H2	82	14ga	0.0031	0.432	0.218	19.282	1.12%	16vdc	1320 Ft.
SOUNDER BASES CIRCUIT 2 1ST FLR	4009	H3	277	14ga	0.0031	1.127	1.917	17.583	9.83%	16vdc	506 Ft.
SOUNDER BASES CIRCUIT 3 MEZZ	4009	H4	217	14ga	0.0031	0.571	0.761	18.739	3.90%	16vdc	998 Ft.
SOUNDER BASES 2ND FLR	4009	H5	344	14ga	0.0031	1.127	2.380	17.120	12.21%	16vdc	506 Ft.
SOUNDER BASES 3RD FLR	4009	H6	302	14ga	0.0031	1.405	2.605	16.895	13.36%	16vdc	406 Ft.
NOT USED	4009	H7		14ga	0.0031	0.000	0.000	19.500	0.00%	16vdc	0 Ft.
NOT USED	4009	H8		14ga	0.0031	0.000	0.000	19.500	0.00%	16vdc	0 Ft.

PID	4098-9772	4098-9773	4905-9835
Candela			
Device Type	SOUNDER	SOUNDER	CODE 4
Supv. Current	0.0000	0.0000	0.0002
Alarm Current	0.1390	0.1390	0.0150
Alarm Current @ 23 Volts	0.1390	0.1390	0.0000
			5
	1	2	1
	6	2	1
	4		1
	8		1
	10		1

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THAT THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOUR LOCAL SIMPLEXGRINNELL DISTRICT OFFICE.

84 CARLETON – 4007es CIRCUIT SUMMARY & VOLTAGE DROP

Channel	Description	Alarm Current	% Drop	Unit Load*	Wire Length	Spare Current	Spare VoltageDrop
A1:1	84 CARLETON B – 3RD	1.006A	0.78%	15	881	66%	96%
N/A		0.000A	0.00%	0	0	100%	100%
N/A		0.000A	0.00%	0	0	100%	100%

A1: ENHANCED POWER SUPPLY – CHANNEL 1					SWITCH SETTINGS								
IDNac Number	Device Type	PID	Candela	Custom Label (Max 40 Characters)	1	2	3	4	5	6	7	8	Existing?
A1:1-1	AV	49AV-WRF	30cd	BASEMENT 1-1-1	X							ON	No
A1:1-2	AV	49AV-WRF	15cd	BASEMENT 1-1-2		X						ON	No
A1:1-3	VO	49VO-WRF	30cd	BASEMENT 1-1-3	X	X						ON	No
A1:1-4	AV	49AV-WRF	15cd	BASEMENT 1-1-4			X					ON	No
A1:1-5	AV	49AV-WRF	15cd	BASEMENT 1-1-5	X		X					ON	No
A1:1-6	A/V	4906-9228	15cd	1ST FLOOR 1-1-6	X	X						ON	No
A1:1-7	STRB	4906-9202	15cd	1ST FLOOR 1-1-7	X	X	X					ON	No
A1:1-8	A/V	4906-9228	15cd	1ST FLOOR 1-1-8				X				ON	No
A1:1-9	A/V	4906-9228	15cd	MEZZANINE 1-1-9	X			X				ON	No
A1:1-10	A/V	4906-9228	15cd	2ND FLOOR 1-1-10		X		X				ON	No
A1:1-11	STRB	4906-9202	15cd	2ND FLOOR 1-1-11	X	X		X				ON	No
A1:1-12	A/V	4906-9228	15cd	2ND FLOOR 1-1-12		X	X					ON	No
A1:1-13	A/V	4906-9228	15cd	3RD FLOOR 1-1-13	X		X	X				ON	No
A1:1-14	STRB	4906-9202	15cd	3RD FLOOR 1-1-14	X	X	X					ON	No
A1:1-15	A/V	4906-9228	15cd	3RD FLOOR 1-1-15	X	X	X	X				ON	No

A1:1 Notification SLC Distributed Load Voltage Drop

Starting Voltage: 29vdc
Min. Device Voltage: 23.vdc
Allowable % Drop: 20.7%

Primary Wire Gauge: 14ga
Home Run Wire Gauge: 14ga

Wire Res. Per Ft. 0.0031 @ 75° Celsius
Wire Res. Per Ft. 0.0031 @ 75° Celsius

Branch	Device #	From	Distance (Feet)	PID	Candela	Device Draw	Class B Calculations: Current at Device	Voltage Drop	Voltage at Device	% Vdrop Wire Length
1	A1:1-1	PANEL	29	49AV-WRF	30cd	0.0670	0.301	0.054	28.946	Branch 1: 0.78%
1	A1:1-2	A1:1-1	59	49AV-WRF	15cd	0.0590	0.234	0.085	28.862	Length: 218
1	A1:1-3	A1:1-2	39	49VO-WRF	30cd	0.0570	0.175	0.042	28.820	
1	A1:1-4	A1:1-3	39	49AV-WRF	15cd	0.0590	0.118	0.028	28.791	
1	A1:1-5	A1:1-4	52	49AV-WRF	15cd	0.0590	0.059	0.019	28.773	
2	A1:1-6	PANEL	48	4906-9228	15cd	0.0750	0.210	0.062	28.938	Branch 2: 0.43%
2	A1:1-7	A1:1-6	53	4906-9202	15cd	0.0600	0.135	0.044	28.894	Length: 143
2	A1:1-8	A1:1-7	42	4906-9228	15cd	0.0750	0.075	0.019	28.875	
3	A1:1-9	PANEL	84	4906-9228	15cd	0.0750	0.075	0.039	28.961	Branch 3: 0.13%
4	A1:1-10	PANEL	68	4906-9228	15cd	0.0750	0.210	0.088	28.912	Branch 4: 0.61%
4	A1:1-11	A1:1-10	73	4906-9202	15cd	0.0600	0.135	0.061	28.852	Length: 203
4	A1:1-12	A1:1-11	62	4906-9228	15cd	0.0750	0.075	0.029	28.823	
5	A1:1-13	PANEL	78	4906-9228	15cd	0.0750	0.210	0.101	28.899	Branch 5: 0.7%
5	A1:1-14	A1:1-13	83	4906-9202	15cd	0.0600	0.135	0.069	28.831	Length: 233
5	A1:1-15	A1:1-14	72	4906-9228	15cd	0.0750	0.075	0.033	28.797	

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BURNHAM ENTERPRISES
PORTLAND, ME 04101

Revisions shown with ⚠ symbol

ISSUE LOG									
MARK	DATE	DESCRIPTION	CHK	CAD					

DRAWN BY:	M.DESIATA
CHECKED BY:	S.KALAFARSKI
ISSUE DATE:	7/1/16
JOB #:	
PROJECT #:	147-992934001

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SYSTEM:
FIRE ALARM SYSTEM

SHEET:
CALCULATIONS AND SCHEDULES

FA-601

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30" x 42" - Arch E1 Size