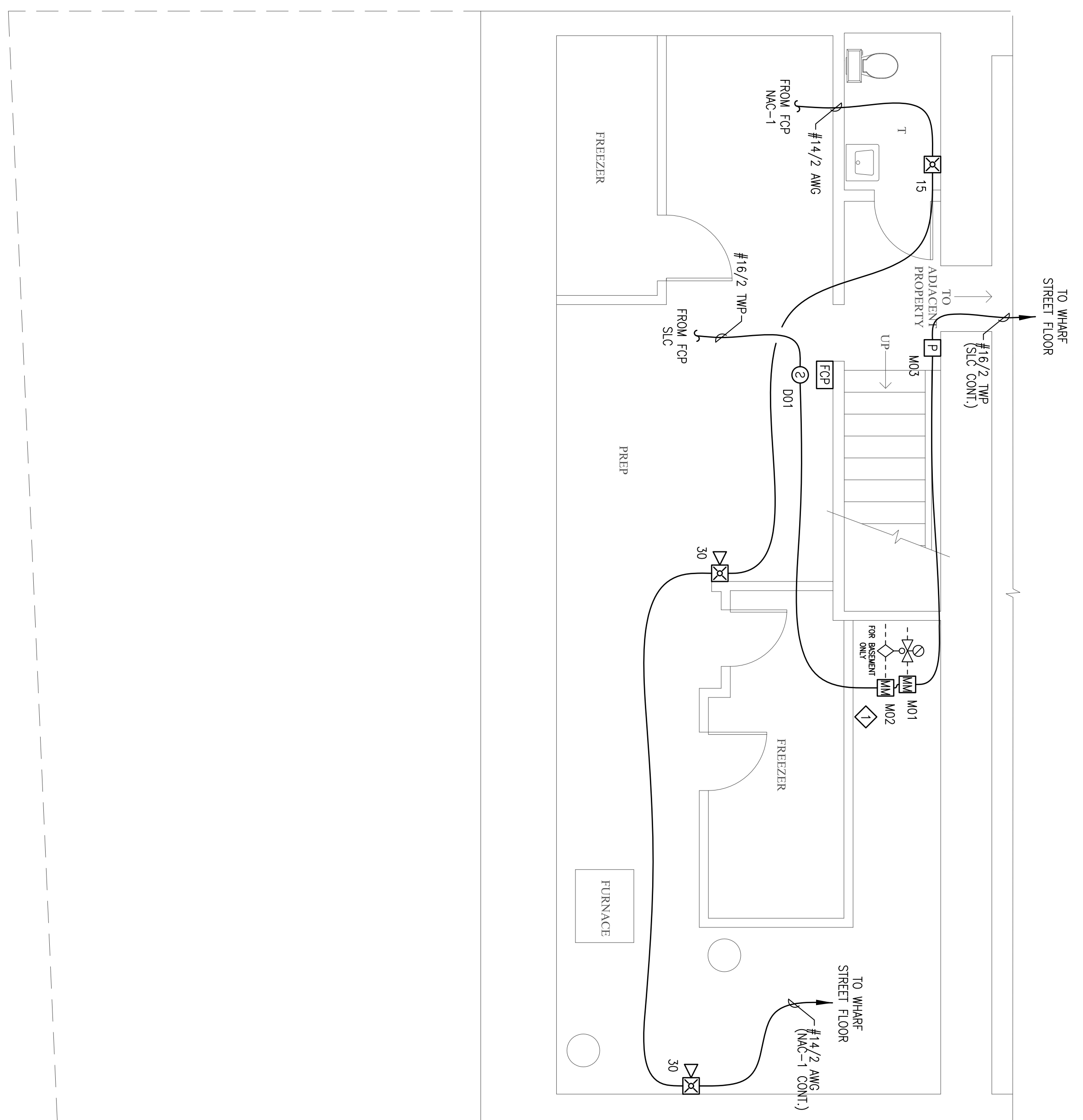


FORE STREET



WHARF STREET

BASEMENT FIRE ALARM PLAN
SCALE: 1/4"=1'-0"

SHEET NOTES:

- ADDRESSABLE 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).

RESERVED FOR CITY STAMP

REVISION	DESCRIPTION	DATE
0	ISSUED FOR REVIEW & APPROVAL	4/8/2015

CUNNINGHAM
Security Systems
10 Princes Point Road, Yarmouth, Maine 04096
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424-426 FORE STREET
PORTLAND, MAINE 04101
BASEMENT FIRE ALARM PLAN

DATE	4/8/2015
CHECKED	WYNNE B. HANS
DRAWN	JFB UNICAD JOB #15227

NAC Circuit Voltage Drop Calculation 4/7/2015

Project Name: 424-426 FORE STREET
Circuit Number: NMC-1

Nominal System Voltage: 20.4 volts
Minimum Device Voltage: 16 volts
Distance from source to 1st device: 15
Wire Gauge for balance of circuit: 14
Max Output Current: 1.50 amps
Total Circuit Current: 1.050 amps

Device	Current	Distance previous device	Voltage at Device	Drop from source	Percent Drop
Device 1	0.086	31	20.30	0.10	0%
Device 2	0.107	26	20.12	0.28	1%
Device 3	0.107	26	19.98	0.42	2%
Device 4	0.107	15	19.91	0.49	2%
Device 5	0.212	9	19.87	0.53	3%
Device 6	0.212	12	19.84	0.56	3%
Device 7	0.086	43	19.77	0.53	3%
Device 8	0.087	13	19.76	0.54	3%
Device 9	0.087	13	19.75	0.55	3%
Totals	1.050	177			

NAC Circuit Voltage Drop Calculation 4/7/2015

Project Name: 424-426 FORE STREET
Circuit Number: NMC-2

Nominal System Voltage: 20.4 volts
Minimum Device Voltage: 16 volts
Distance from source to 1st device: 40
Wire Gauge for balance of circuit: 14
Max Output Current: 1.50 amps
Total Circuit Current: 0.813 amps

Device	Current	Distance previous device	Voltage at Device	Drop from source	Percent Drop
Device 1	0.212	18	20.20	0.20	1%
Device 2	0.066	31	20.13	0.27	1%
Device 3	0.107	31	20.05	0.35	2%
Device 4	0.107	5	20.04	0.36	2%
Device 5	0.107	21	20.01	0.39	2%
Device 6	0.079	36	19.97	0.43	2%
Device 7	0.066	8	19.97	0.43	2%
Totals	0.813	159			

NAC Circuit Voltage Drop Calculation 4/7/2015

Project Name: 424-426 FORE STREET
Circuit Number: NMC-3

Nominal System Voltage: 20.4 volts
Minimum Device Voltage: 16 volts
Distance from source to 1st device: 55
Wire Gauge for balance of circuit: 14
Max Output Current: 1.50 amps
Total Circuit Current: 0.555 amps

Device	Current	Distance previous device	Voltage at Device	Drop from source	Percent Drop
Device 1	0.079	18	20.21	0.19	1%
Device 2	0.066	24	20.16	0.24	1%
Device 3	0.079	20	20.10	0.30	1%
Device 4	0.079	20	20.06	0.34	2%
Device 5	0.066	11	20.04	0.36	2%
Device 6	0.079	7	20.03	0.37	2%
Device 7	0.107	37	20.01	0.39	2%
Totals	0.555	172			

NAC Circuit Voltage Drop Calculation 4/7/2015

Project Name: 424-426 FORE STREET
Circuit Number: NMC-4

Nominal System Voltage: 20.4 volts
Minimum Device Voltage: 16 volts
Distance from source to 1st device: 65
Wire Gauge for balance of circuit: 14
Max Output Current: 1.50 amps
Total Circuit Current: 0.859 amps

Device	Current	Distance previous device	Voltage at Device	Drop from source	Percent Drop
Device 1	0.176	6	20.06	0.34	2%
Device 2	0.107	6	20.03	0.37	2%
Device 3	0.079	24	19.95	0.45	2%
Device 4	0.079	14	19.90	0.50	2%
Device 5	0.066	3	19.80	0.50	2%
Device 6	0.176	43	19.80	0.60	3%
Device 7	0.176	3	19.80	0.60	3%
Totals	0.859	158			

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UNIGAD Inc.
Fire Alarm Design & Drafting Services

SCALE: 1/4"=1'-0"
FA-2