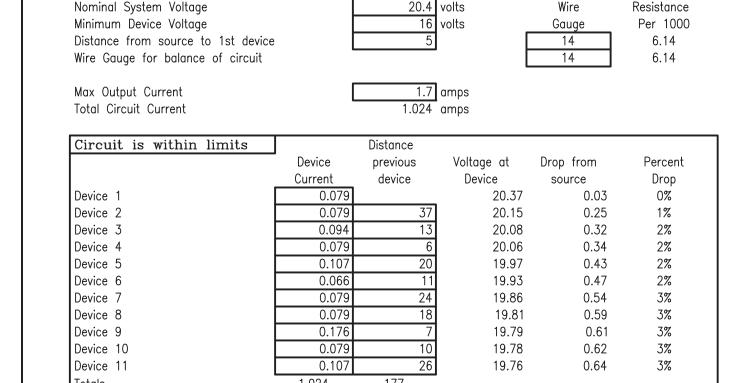


TZPATRICK ROWHOUSE-106 PARK STREET

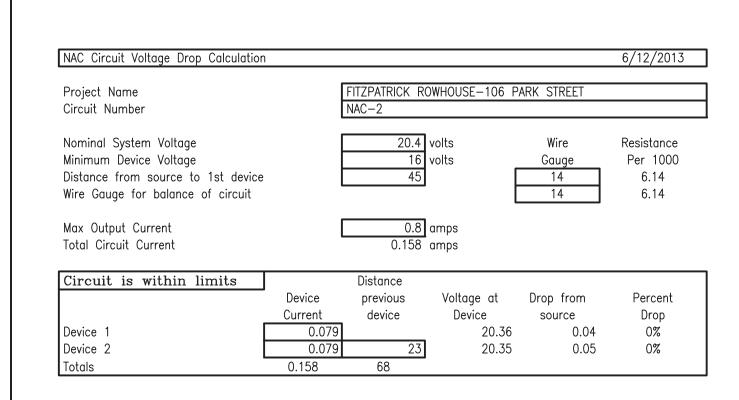
5/27/2013

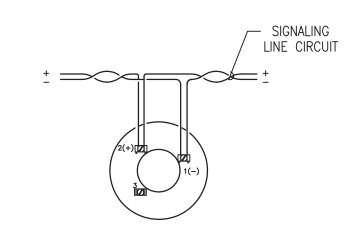


NAC Circuit Voltage Drop Calculation

Project Name

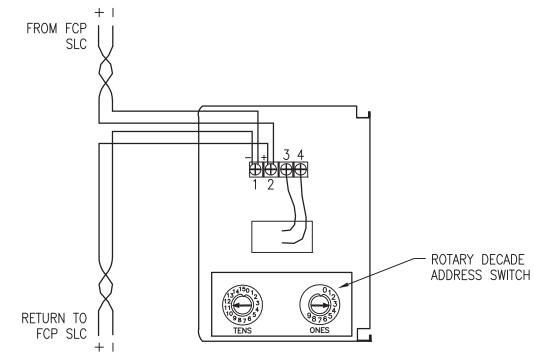
Circuit Number



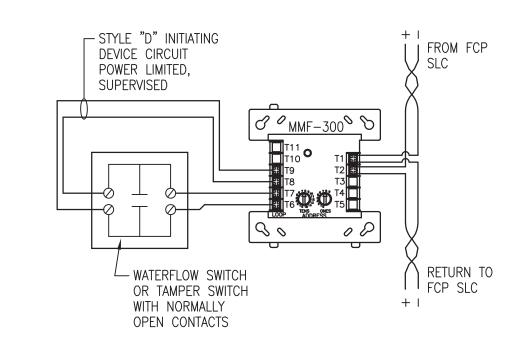


ADDRESSABLE SMOKE DETECTOR WIRING DETAIL

SCHEMATIC: NO SCALE



MANUAL PULL STATION WIRING DETAIL SCHEMATIC: NO SCALE



WATERFLOW / TAMPER WIRING DETAIL SCHEMATIC: NO SCALE

MS-9050UD

ADDRESSABLE FIRE ALARM CONTROL COMMUNICATOR

FIRE-LITE ALARMS

CONNECT TO DACT
PHONE LINE JACKS
ON MAIN BOARD

NAC-1

PRIMARY -

TELCO

JACKS

RSST SECONDARY -

REMOTE

**ANNUNCIATOF** 

2-#16/2 TWP -1-#14/2 AWG

<del>\</del> #22/4

**~** #22/4

Telephone Termination

(DEDICATED CKT.)

Board

## **GENERAL NOTES:**

- 1. THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- 2. INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 3. WIRING DEPICTED ON THESE PLANS IS SCHEMATIC ACTUAL WIRE LOCATIONS MAY DIFFER FROM THESE PLANS. WIRING SHALL BE PERFORMED AS ACTUAL BUILDING CONSTRUCTION CONDITIONS ALLOW AND TO MINIMIZE PENETRATIONS THROUGH AREA SEPARATION WALLS AND FIRE WALLS. THE USE OF A RACEWAY IS PERMITTED AS LONG AS NO 110V OR HIGHER VOLTAGE CABLES ARE IN THE SAME RACEWAY.
- 4. FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- 5. POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
- 6. POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS.
- 7. WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
- 8. WHEN UTILIZING SHIELDED CABLE TIE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
- 9. ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- 10. SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- 11. LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
- 12. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- 13. VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- 14. UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM. PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
- 15. PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE. SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.

A.D.V.A.N.C.E

SCHEMATIC: NO SCALE

FROM: c\_(+)

FCP, NAC POWER,

ADDRESSABLE (SIGNALING LINE) CIRCUIT

( INDICATING CKT. )

FIRE ALARM RISER DIAGRAM

-#14/2 AWG (STYLE Y)

-#14/2 AWG (STYLE Y)

SCHEMATIC: NO SCALE

OR PRÉVIOUS DEVICE 7

16. INSTALLING CONTRACTOR SHALL, PHYSICALLY, LABEL ALL INITIATING DEVICES AND NOTIFICATION APPLIANCE CIRCUIT END OF LINE (WHEN WIRING CLASS "B"). THESE LABELS SHALL BE IN PLACE PRIOR TO START—UP AND TESTING.

TYPICAL 2 WIRE STROBE WIRING DETAIL

A.D.V.A.N.C.E

NEXT DEVICE

OR EOL

VERIFY EXACT WIRE TYPE WITH FIRE ALARM

CONTRACTOR BEFORE ORDERING.

FIRE ALARM SYMBOL LEGEND NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT							
SYMBOL	DESCRIPTION	MOUNTING					
FCP	FIRE ALARM CONTROL PANEL		WALL-TOP @ 66"				
FPS	FIRE ALARM POWER SUPPLY	FIELD VERIFY					
FSA	FIRE SYSTEM ANNUNCIATOR	WALL-TOP @ 66"					
FSD	FIRE/SMOKE DAMPER	BY OTHERS					
(3)	SMOKE DETECTOR	CEILING					
⊘ <sub>R</sub>	120V SMOKE DETECTOR	CEILING					
©=-	DUCT SMOKE DETECTOR		BY OTHERS				
1	HEAT DETECTOR		CEILING				
SIM	SERIAL INTERFACE MODULE		FIELD VERIFY				
СМ	ADDRESSABLE CONTROL MODULE		FIELD VERIFY				
MM	ADDRESSABLE MONITOR MODULE	FIELD VERIFY					
Р	MANUAL PULL STATION		WALL @ 48"				
R	CONTROL RELAY (MULTI-VOLTAGE)		FIELD VERIFY				
RM	ADDRESSABLE RELAY MODULE	FIELD VERIFY					
_&_	MAGNETIC DOOR HOLDER	FIELD VERIFY					
\$	WATER FLOW SWITCH	BY OTHERS					
21	VALVE TAMPER SWITCH		BY OTHERS				
兄	BELL		BY OTHERS				
Q	CEILING MOUNT STROBE		FIELD VERIFY				
$\bigcirc$	CEILING MOUNT HORN / STROBE	FIELD VERIFY					
Ø	CEILING MOUNT SPEAKER / STROBE		FIELD VERIFY				
	MINI HORN	WALL @ 10'-0					
$\square$	HORN / STROBE	WALL 80"-96"					
<u> </u> SS <	SPEAKER / STROBE	WALL 80"-96"					
SP	SPEAKER		WALL @ 90"				
$\boxtimes$	STROBE		WALL 80"-96"				
ABBREVIATION	DESCRIPTION	Fcl	1 🔯				
E G	EXISTING WITH GUARD	WATTAGE (1/2W)	TSTROBE - 30				
Р	PENDENT MOUNT						
R S	RESIDENTIAL (110V) SOUNDER BASE	(S) DEV	VICE ADDRESS — (1) OR DO1				
WP	WEATHER PROOF	(L — D (D or M — DENOTE	OR DO1 ENOTES LOOP #) S DETECTOR OR MODULE #)				
EOL EOLR	END OF LINE RESISTOR END OF LINE RELAY	4 1146 /0	TND				
AWG TWP	AMERICAN WIRE GAUGE TWISTED PAIR	1-#16/2	WIRE TYPE ABBREVIATED				
TWSP	TWISTED SHIELDED PAIR		CONDUCTOR COUNT WIRE SIZE				
FPLP FPLR	FIRE POWER LIMITED PLENUM FIRE POWER LIMITED RISER		# OF CABLES (IF OMITTED ONLY 1 CABLE NEEDED)				
I I LIV	THE LOWER FIMILED VIOLE						

0

RESERVED FOR CITY STAMP

GRAM

DIA

RISER

EGEN

ON

TRIX,

MAM

ALCS,

UNICAD JOB #13186

101

0

AND

PORTL

ROWHOUS

TRIC

ZP

STRE

106

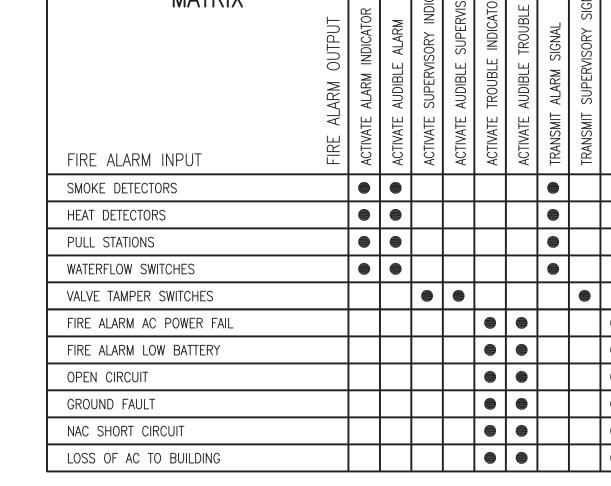
MAINE UNIFORM ENERGY & BUILDING CODE PORTLAND CITY CODE, CHAPTER10, FIRE PREVENTION & PROTECTION NFPA 1, FIRE CODE, & NFPA 101, LIFE SAFETY CODE

GROUP R OCCUPANCY

APPLICABLE CODES:

	OP.
①——P	FIRE ALARM IN
15 16	SMOKE DETECTORS
(I)——(2)	HEAT DETECTORS
① ②	PULL STATIONS
	WATERFLOW SWITCH
	VALVE TAMPER SW
	FIRE ALARM AC PO
	FIRE ALARM LOW I
	OPEN CIRCUIT
	GROUND FAULT
	NAC SHORT CIRCU

OPERATIONS MATRIX INPUT	ACTIVATE ALARM INDICATOR		ACTIVATE SUPERVISORY INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE TROUBLE INDICATOR	ACTIVATE AUDIBLE TROUBLE INDICATOR	TRANSMIT ALARM SIGNAL	TRANSMIT SUPERVISORY SIGNAL	TRANSMIT TROUBLE SIGNAL
SMOKE DETECTORS		•					•		
HEAT DETECTORS		•					•		
PULL STATIONS		•					•		
WATERFLOW SWITCHES		•					•		
VALVE TAMPER SWITCHES			•	•					
FIRE ALARM AC POWER FAIL						•			
FIRE ALARM LOW BATTERY					•	•			
OPEN CIRCUIT					•	•			
GROUND FAULT						•			•
NAC SHORT CIRCUIT					•	•			•
LOSS OF AC TO BUILDING						•			•



WAYNE B. HAWS CHECKED NICET IV 90496 DATE 2/25/2013 REVISION NONE SCALE FA-1

DRAWN