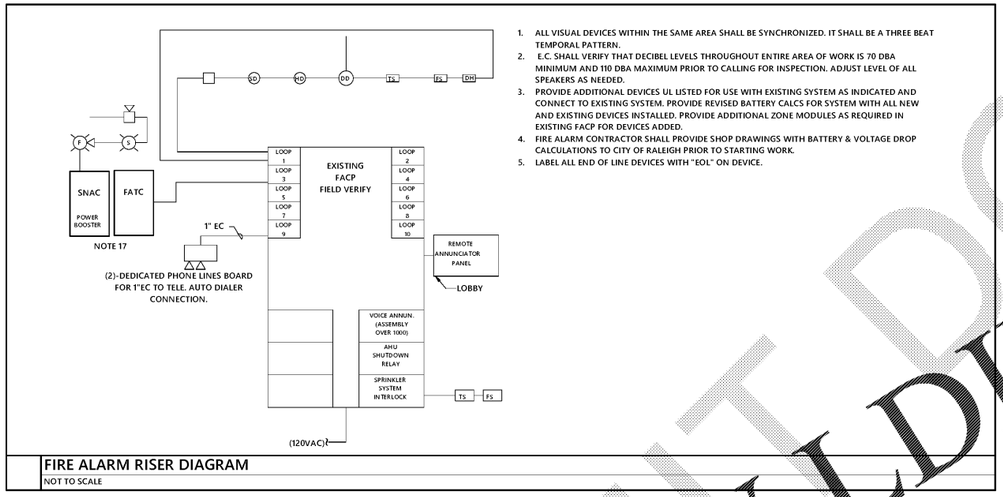

FIRE ALARM RISER DIAGRAM

NOT TO SCALE

1. ALL VISUAL DEVICES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED. IT SHALL BE A THREE BEAT TEMPORAL PATTERN.
2. E.C. SHALL VERIFY THAT DECIBEL LEVELS THROUGHOUT ENTIRE AREA OF WORK IS 70 DBA MINIMUM AND 110 DBA MAXIMUM PRIOR TO CALLING FOR INSPECTION. ADJUST LEVEL OF ALL SPEAKERS AS NEEDED.
3. PROVIDE ADDITIONAL DEVICES UL LISTED FOR USE WITH EXISTING SYSTEM AS INDICATED AND CONNECT TO EXISTING SYSTEM. PROVIDE REVISED BATTERY CALCS FOR SYSTEM WITH ALL NEW AND EXISTING DEVICES INSTALLED. PROVIDE ADDITIONAL ZONE MODULES AS REQUIRED IN EXISTING FACP FOR DEVICES ADDED.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITH BATTERY & VOLTAGE DROP CALCULATIONS TO CITY OF RALEIGH PRIOR TO STARTING WORK.
5. LABEL ALL END OF LINE DEVICES WITH "EOL" ON DEVICE.

RALEIGH FIRE PROTECTION SYMBOL LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FPT-N	FIRE ALARM TERMINAL CABINET. N=TRANSPONDER NUMBER
FSCP-N	FIRE SUPPRESSION CONTROL PANEL. N=DENOTES SUPPRESSION TYPE
GAP-N	GRAPHIC ANNUNCIATOR PANEL
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
FAA	FIRE ALARM ANNUNCIATOR
PRNT	PRINTER
MIC	REMOTE VOICE EVACUATION MICROPHONE
	FIRE SERVICE OR EMERGENCY PHONE STATION
	SPEAKER/VISUAL APPLIANCE (WALL MOUNTED)
	VISUAL ONLY APPLIANCE (WALL MOUNTED)
	SPEAKER ONLY APPLIANCE (WALL MOUNTED)
	SPEAKER/VISUAL APPLIANCE (CEILING MOUNTED)
	VISUAL ONLY APPLIANCE (CEILING MOUNTED)
	SPEAKER ONLY APPLIANCE (CEILING MOUNTED)
	ADDRESSABLE I/O OUTPUT MODULE. N = DENOTES NUMBER OF INPUTS AND OUTPUTS
CM	ADDRESSABLE CONTROL MONITOR
IM	ADDRESSABLE INPUT MONITOR
S	SMOKE ALARM (SINGLE STATION)
S	SMOKE ALARM (MULT. STATION)
S SB	DETECTOR WITH SOUNDER BASE (SB)
S MC	DETECTOR - MULTI CRITERIA TYPE (MC)
S	SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE)
S ION	SMOKE DETECTOR - IONIZATION TYPE (ION)
H X	HEAT DETECTOR/SENSOR. X=TYPE
— LH —	LINEAR HEAT DETECTOR
	DUCT SMOKE DETECTOR (NFPA 72, SECTION 17.7.5.5)
X	PROVIDE BOX, AS SHOWN, TO DENOTE COMBINATION DETECTORS
A	ABORT SWITCH
M	MANUAL RELEASING STATION
	FLAME DETECTOR (TYPE DENOTED)
X	GAS DETECTOR (TYPE DENOTED)
F	F.A. PULLSTATION (TYPE DENOTED)
FS	FIRE ALARM MAIN/RESERVE
PS	HIGH PRESSURE SWITCH
FS	SPRINKLER FLOW SWITCH
VS	VALVE SUPERVISORY SWITCH
PS	SPRINKLER PRESSURE SWITCH
LT	SPRINKLER TEMPERATURE SWITCH
	END OF LINE RESISTOR

FIRE ALARM SYSTEM MATRIX	BUILDING SYSTEM OUTPUTS																				CENTRAL COMM	
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL INDICATOR	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL HORNS-STROBES	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	RETURN ELEVATOR TO ALTERNATE FLOOR	RETURN ELEVATOR TO FIRST FLOOR	SHUNT TRIP AFTER ELEV. REACHES DESIGNATED FLOOR	SHUT DOWN RESPECTIVE HVAC	SHOW CHANGE OF STATUS ON ANNUNCIATOR	SHOW CHANGE OF STATUS ON CENTRAL PANEL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
MANUAL FIRE ALARM PULL BOXES	X	X				X	X	X	X									X	X	X		
BUILDING SMOKE DETECTOR	X	X				X	X	X	X									X	X	X		
DUCT SMOKE DETECTOR			X	X			X			X					X	X	X		X			
SPRINKLER WATER FLOW	X	X				X	X	X	X									X	X	X		
SPRINKLER TAMPER			X	X			X			X								X	X		X	
ELEV. EQ. ROOM SMOKE DETECTOR	X	X				X	X	X	X				X					X	X	X			
ELEV. EQ. ROOM HEAT DETECTOR	X	X				X	X	X	X				X	X				X	X	X			
ELEV. SHAFT HEAT DETECTOR	X	X				X	X	X	X					X				X	X	X			
1ST FLOOR ELEV. LOBBY SMOKE DET.	X	X				X	X	X	X			X						X	X	X			
UPPER FLR. ELEV. LOBBY SMOKE DET.	X	X				X	X	X	X				X					X	X	X			
HOOD SUPPRESSION SYSTEM	X	X				X	X	X	X									X	X	X			
NOTIFICATION DEVICE SHORT CIRCUIT					X	X		X				X						X	X				
OPEN CIRCUIT					X	X		X				X						X	X			X	
GROUND FAULT					X	X		X				X						X	X			X	
FIRE ALARM A.C. POWER FAILURE					X	X		X				X						X	X			X	
FIRE ALARM SYSTEM LOW BATTERY					X			X				X						X	X			X	
GENERATOR NFPA 110 ALARM ACTIVE			X	X																			
GENERATOR FUEL LEVEL			X	X																			
FIRE PUMP RUNNING			X							X													
FIRE PUMP COMMON TROUBLE			X							X													
FIRE PUMP POWER FAILURE/PHASE REVER.			X							X													

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City of Raleigh Transit Division
510 W Martin St, Raleigh, NC 27601

NO.	SUBMISSION	DATE
1	PERMIT/BID SET	11/08/19

CHECKED BY: MKG
DRAWN BY: RDH
PROJECT NUMBER: 1908
SHEET NAME: FIRE ALARM LEGEND, RISER AND NOTES
SHEET NUMBER: FA001

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