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120V 20A RRANCH CIRCUIT RREAKER AND SHALL HAVE A RED MARKING LOCK-ON PROVISION AND SHALL RE	3)
IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS	ERS)
(CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. 6. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. WATERFLOW SWITCH (BY OTHE	RS)
7. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER CABLE AND WIRE LEGEND	
LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL MURPING CHARLE BY ACCORDANCE AND ACCORDANCE TO MEDIA 20 (MEDIA) LABEL PART NO AWG (Q/KFT) DESCRIPTION TOTAL LEN	STH —
8. ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC). 9. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE. 10. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.	

EQUIPMENT LIST					PANEL FACP	(MRP-2001) BATTERY	CALCULATION			
PART NO	DESCRIPTION				(SECONDA	RY POWER SOURCE REQUI	REMENTS)			
			PANEL POWER SUPPLY MAX CURRENT = 7A				TOTAL USED CAPACITY (IN ALARM) = 4.251A (60.73 %)			
MRP-2001	AGENT RELEASE PANEL						STANDBY CUR	RENT (AMPS)	SECONDARY ALARM	CURRENT (AMPS)
		PANEL CO	MDONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
2W-B 2-WIRE CO	ONVENTIONAL SMOKE DETECTOR	FANEL COI	WIFOINLINIS	1	MRP-2001 Main Board	Agent Release Panel Card	0.095	0.095	0.221	0.221
		CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
_ AIR PR	RESSURE SWITCH (BY OTHERS)	FACP•Z1	(S)	31	2W-B	2-wire Standard i3 Detector	0.0001	0.0031	0.13	4.03
- 7.01(1)	ALCOUNTE OWN OF (BT OTHERO)		PS	1	AIR PRESSURE SWITCH		0	0	0	0
- REL	LEASE SWITCH (BY OTHERS)		PS	1	RELEASE SWITCH		0	0	0	0
CHILLO	NEE VALVE CAUTOLI (DV OTLIEDO)	PACF*ZZ	VS	1	VALVE TAMPER SUPERVISORY SWITCH		0	0	0	0
- SHUT O	OFF VALVE SWITCH (BY OTHERS)		WF	1	WATERFLOW SWITCH		0	0	0	0
							TOTAL STANDBY (A)	0.0981	TOTAL ALARM (A)	4.251
- WATE	ERFLOW SWITCH (BY OTHERS)							REQUIRED STAN	DBY TIME = 24 HOURS	
						_		REQUIRED ALAF	RM TIME = 5 MINUTES	
CABLE AND WIRE LEGEND				TANDBY LOAD (A)		0.0981	24		2.35	
DESCRIPTION	TOTAL LENGTH		SECONDARY ALARM LOAD (A)		4.251	0.08333		0.354	125	
DESCRIPTION	TOTAL LLINOTTI		STANDBY AND ALARM	,	5)			2	.70865	
IDC 2 COND COLID COPPED EDI D				DERATING FACTOR 1.2						
IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	515'		SECONDARY LOAD REQUIREMENTS (AMP HOURS) 3.25038							
ANALOG GNGI IILLDED		PROVIDE (2) 12V 7AH BATTERIES								

SHEET INDEX			
SHEET#	SHEET DESCRIPTION		
FA-00	COVER SHEET		
FA-01	DESIGN PLAN - BASEMENT		
FA-02	WIRING DIAGRAMS		

14. EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY, HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES. 15. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A CENTRAL UL LISTED MONITORING STATION. THE MEANS OF MONITORING SHALL BE VIA TWO COPPER ANALOG PHONE LINES, AND THE FIRE ALARM PANEL WILL SEIZE

16. ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.

12. ONLY FIRE ALARM SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.

ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE. 10. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS. 11. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.

13. MAINTAIN 40 PERCENT MAXIMUM CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.

THE LINES FOR FIRE USE.

SCOPE OF WORK

1. INSTALLATION OF NEW FIRE ALARM DEVICES AS SHOWN ON PLANS. 2. DEDICATED PREACTION RELEASING PANEL THAT WILL BE TIED TO THE BUILDING FIRE ALARM SYSTEM ON THE FIRST FLOOR. 3. THE FIRE ALARM SYSTEM SHALL BE COMPLIANT TO CURRENT CODES.

		BUILDING DATA	
CONSTRUCTION TYPE: OCCUPANCY GROUP: OCCUPANT LOAD:	VB	FIRE PROTECTION:	FULLY SPRINKLERED
	A-2, B, S-1	NUMBER OF STORIES:	BASEMENT+ 2
	475	WORK AREA:	8,312 (BASEMENT)

APPLICABLE CODES

INTERNATIONAL BUILDING CODE - 2018 ED.
INTERNATIONAL MECHANICAL CODE - 2018 ED.
UNIFORM PLUMBING CODE - 2018 ED.
INTERNATIONAL FUEL GAS CODE - 2018 ED.
INTERNATIONAL ENERGY CONSERVATION CODE - 2018 ED.
NATIONAL ELECTRICAL CODE - 2017 ED.
INTERNATIONAL FIRE CODE - 2018 ED.
ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010 ED.
\(\text{NFPA 72 2019 EDITION}\)\frac{1}{\text{\text{NFPA 72 2019 EDITION}}\}

CONTRACTOR INFO

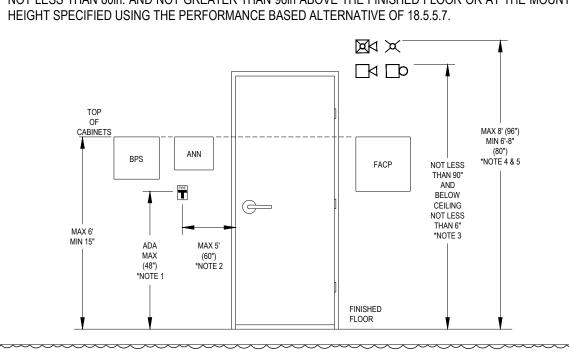
TYPICAL MOUNTING HEIGHTS
NFPA 72 2019 17.15.6 THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42in AND NOT MORE THAN 48in FROM THE FINISHED FLOOR.

2. NFPA 72 2019 17.15.9.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5ft OF EACH EXIT DOORWAY ON EACH FLOOR.

B. NFPA 72 2019 18.4.9.1 IF CEILING HEIGHTS ALLOW, AND UNLESS OTHERWISE PERMITTED BY 18.4.9.2 THROUGH 18.4.9.5, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90in AND BELOW THE FINISHED CEILINGS AT DISTANCES OF NOT LESS

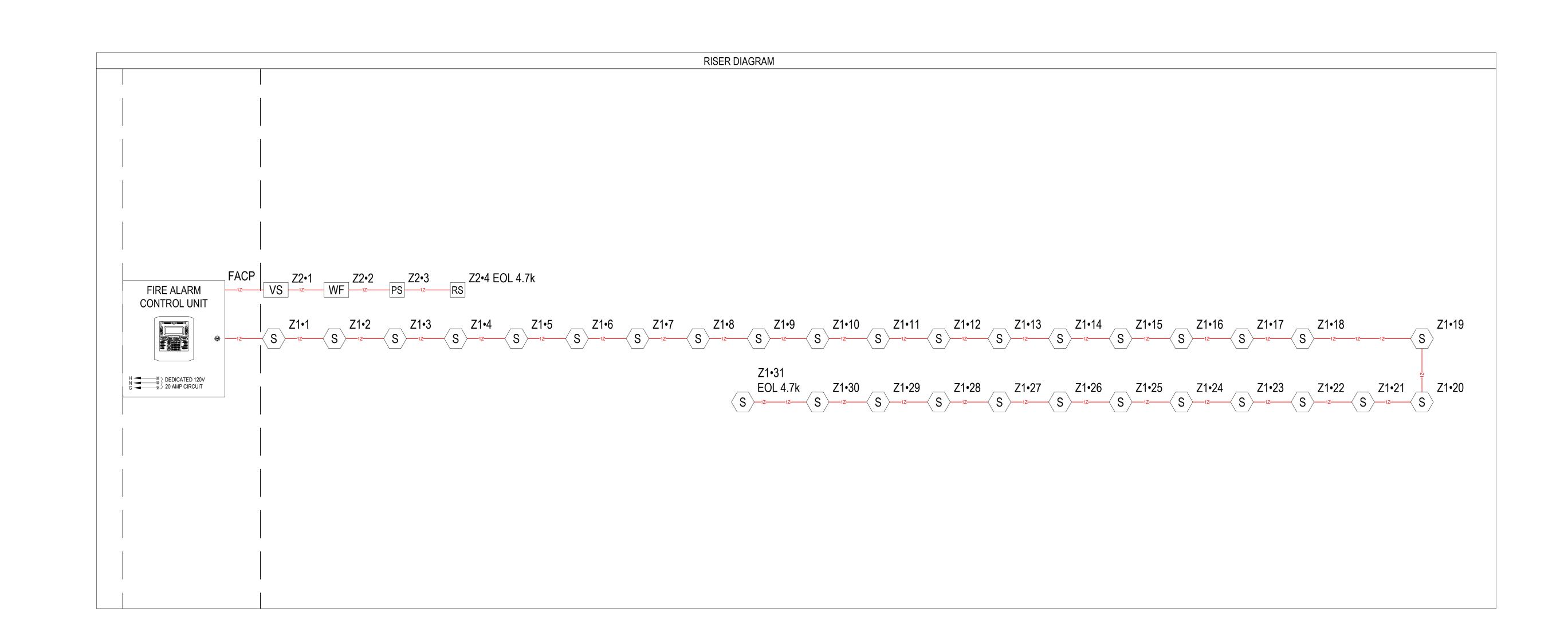
THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF 18.5.5. (SEE NOTE 5). NFPA 72 2019 18.5.5.1 WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80in. AND NOT GREATER THAN 96in ABOVE THE FINISHED FLOOR OR AT THE MOUNTING

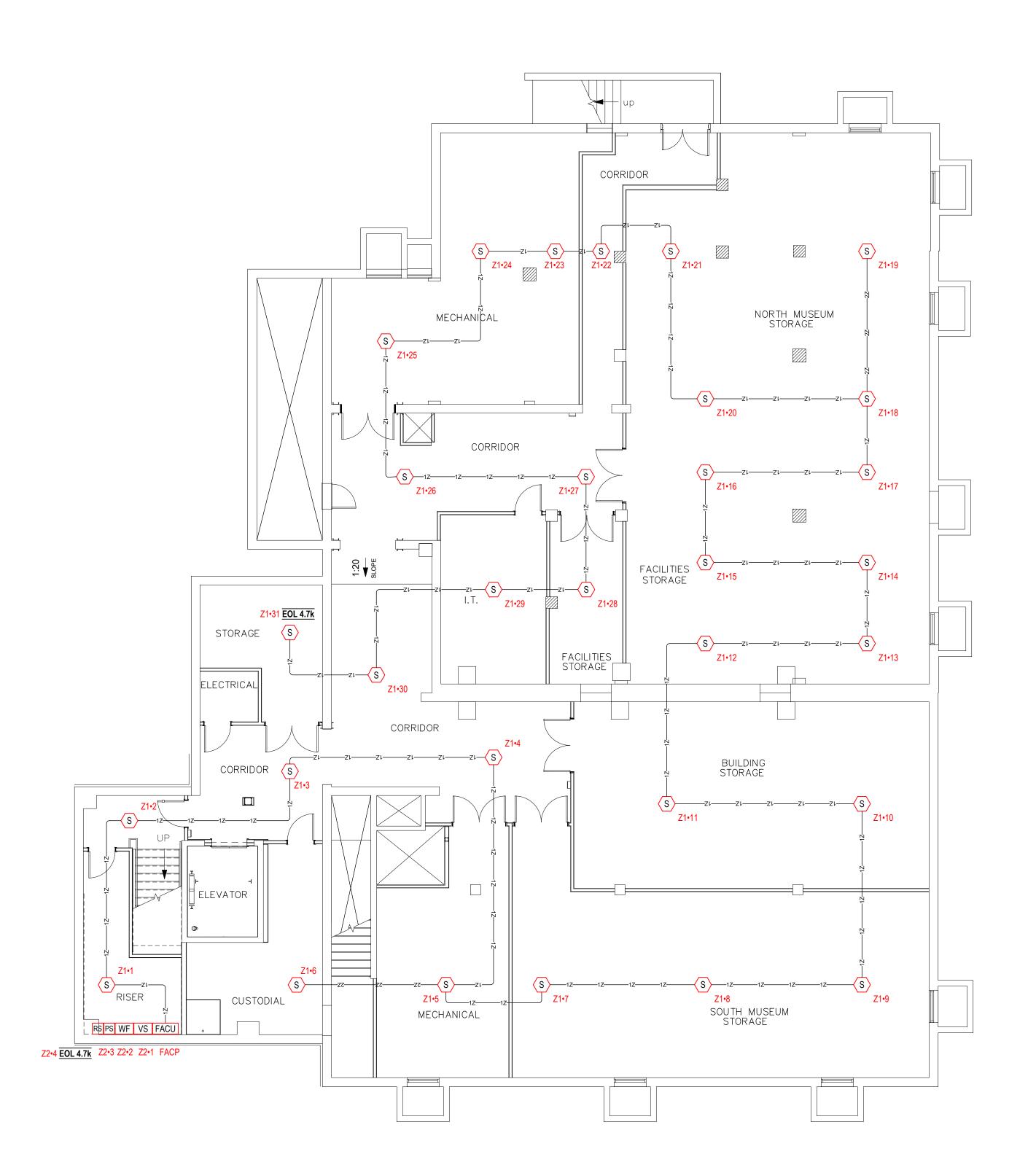
4. NFPA 72 2019 18.4.9.3 IF COMBINATION AUDIBLE/ VISIBLE APPLIANCES ARE INSTALLED, THE LOCATION OF

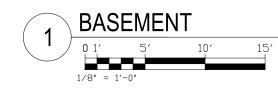


EVENT	ROUBLE SCHUL CHERLAR REPORTED TO THE SCHULL CHERCH CONTROL OF THE RAIL OF THE RAIL OF THE RAIL OF THE RAIL OF THE SCHULL CHERCH CONTROL OF THE RAIL OF
SMOKE DETECTOR	
PREACTION SHUT OFF VALVE	
SPRINKLER WATERFLOW ALARM	
24V RELEASE ON/OFF SWITCH	
PREACTION LOW AIR	
FACP AC POWER FAILURE	
SYSTEM LOW BATTERY	

NOTE: ALL SIGNALS WILL BE SENT TO A CENTRAL STATION









		DEVICE LEGEND			
SYMBOL		DESCRIPTION			
FACU		AGENT RELEASE PANEL			
$\langle s \rangle$		2-WIRE CONVENTIONAL SMOKE DETECTOR			
PS		AIR PRESSURE SWITCH (BY OTHERS)			
RS		RELEASE SWITCH (BY OTHERS)			
VS		SHUT OFF VALVE SWITCH (BY OTHERS)			
WF	WATERFLOW SWITCH (BY OTHERS)				
		CABLE AND WIRE LEGEND			
LABEL	AWG	WG DESCRIPTION			
Z	18	18 IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED			

Z1•001

ZONE NUMBER
DEVICE ADDRESS

