General		Matrix A-Sprinklered							
Category	Туре	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Install		
		Fire Alarm Control Panel	Potter	AFC-1000	If smoke control is required coordinate panel and manufacturer alternative with PPS. Fire panel to use the IP communicator for offsite notification.	Must be installed in the MDF, if available.	Install 72" top of panel AFI		
	Control	Main Fire Alarm Annunciator	Potter	RA-6500R (F)	Provide 20% spare addresses, minimum.	Locate in main office visible from secretary's desk	Install top of annunciator 6 Set system address to "31"		
Accessories	Alarm	SLC Expander Modules	Potter	PAD100-SLCE		In Remote power supplies	SLCEs are to be powered b alarm control panel. Maxim expander.		
ccess	Fire	Power Expander	Potter	PSN-1000 (E)		Locate in equipment rooms.	Install 72" top of panel AFF		
ts and Ac		Power Supplies	Altronix	AL600ULPD4CB	For non-fire alarm components, when needed, e.g., door hold opens. Provide with battery backup.	Locate in equipment rooms.	Install 72" top of panel AFF		
Control Units and	Large, intermediate, and all Schools	Voice Evacuation Panel	Potter	PVC-MP	Use distributed system for any intermediate to large schools, e.g., high schools. System to be capable of connecting to the Informacast system and Cisco phone system.	Locate in main office visible from secretary's desk adjacent to annunciator.	Install 72" top of panel AFI		
	rmedia				Zone voice systems to include floors, wings, cafeteria, commons, auditorium and similar large spaces.				
Fire Alarm	ırge, inte Schools	Distributed Evacuation Panels	Potter	PVC-DP		Locate in equipment rooms.	Install 72" top of panel AFF		
Ϋ́	B S	Voice Evacuation Panel	Potter	100M or 200M	OK to use for small schools. System to be capable of connecting to the Informacast	Locate in equipment rooms.	Install 72" top of panel AFF		
	Control S1	Local Operating Console (LOC)	Potter	PVX-RM8 or PVX- RM16	system and Cisco phone system.	Locate in main office visible from secretary's desk adjacent to annunciator.	Install top of LOC at 60" A		
	EVACS	Amplifiers		PVX-100 or PVX- 200					
	E								

Special Installation Requirements	Action
install 72" top of panel AFF	
nstall top of annunciator 60" AFF.	
Set system address to "31"	
SLCEs are to be powered by power expanders, not the fire alarm control panel. Maximum of two SLCEs per power expander.	
install 72" top of panel AFF	
install 72" top of panel AFF	
install 72" top of panel AFF	
nstall 72" top of panel AFF	
install 72" top of panel AFF	
nstall top of LOC at 60" AFF.	
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					Matrix A-Sprinklered	d		
General Category	Туре	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action
·				1				
		Manual Pull Stations	Potter	PAD100-PSDA	Provide with protective guard when located in student accessible locations.	Provide one outside the main office.	Semi flush for concealed wiring/conduit applications.	Alarm
	Manual Pull Stations		I otter			Provide one at the fire alarm control panel.	Wiremold V5748 box for surface applications.	/ Humm
	anual Pı Stations					· · · · · · · · · · · · · · · · · · ·		
	ua						4-s backbox with 1-gang mud ring for conduit applications	
	anı Sta						Mount with operating handle at 48" AFF.	
	<b>W</b>				Provide with protective guard when located in student			
		Protective Guard	STI	STI-1130	accessible locations.			
			511	511 1150				
es	_				Install at the ceiling in rooms identified using NFPA			
Accessories	on				72 spacing criteria except where smoke detectors are			
SSC	cti				suitable due to the ambient environment or where			
CG	te	Spot Smoke Detection	Potter	PAD100-PD	ceiling heights due not exceed 16 feet AFF.	Hallways and corridors		Alarm
Ac	De					Rooms with door hold opens		Alarm
	Spot Smoke Detection					At the top of each stairway		Alarm
and						Any room leading to a corridor or stairwell excluding		
	m					office, work rooms, and classrooms		Alarm
ice	t S	Detector Base	Potter	PAD100-6B		Add Alternate: Classroom Detection		Alarm
ev	od	Detector Base	Potter	PAD100-0B	Provide smoke detector with protective guard when			
<b>A</b>	$\mathbf{S}$				located in areas where subject to damage e.g.,			
рg		Protective Guard	STI		multipurpose rooms.			
Initiating Devices								
iti:	u				Use in rooms identified where ceiling height exceed 10	5		
Ē	tic	Beam Smoke Detectors	System Sensor	BEAM1224S	feet AFF. If 16 feet or less, provide spot detectors.	Gyms		Alarm
	Detection							
	Jei				Follow manufacturer and NFPA 72 spacing criteria.	Multipurpose Rooms		
	eI					Cafeterias		
	Smoke	Demote Track C 1/1	System Sensor		Provide for all Beam Smoke Detectors		4 - backber mith 1 - man multi	
	<u>B</u>	Remote Test Switch	System Sensor	KISISIKEY	Provide for all Beam Smoke Detectors	Locate in nearby, secure, accessible location.	4-s backbox with 1-gang mud ring	
	S				Provide beam smoke detector with protective guard	Locate in hearby, secure, accessible location.		
	an				when located in areas where subject to damage e.g.,			
	Beam	Protective Guard	STI	STI-9706 or 9707	gyms, multipurpose rooms, etc.			

					Matrix A-Sprinklere	d		
General Category	Туре	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action
	of Rise	Heat Detection - Rate of Rise	Potter	PAD100-HD	Use in areas identified.	Home Economics rooms		Alarm
	of ]				Follow manufacturer and NFPA 72 spacing criteria.	Shop Areas		Alarm
	Rate					Mechanical Rooms		Alarm
	Sa					Art and Crafts Rooms		Alarm
	-					Science Rooms		Alarm
ies	u					Restrooms with Showers		Alarm
ccessories	Detection					Elevator Shafts (when required by code)		Alarm
SS	ec					Crawl spaces used for storage		Alarm
l est	let					Attic spaces used for storage		Alarm
Ac	<b>Q</b>					Areas not suitable for smoke detection due to use of space		
q	<b>Sat</b>					and not suitable for rate of rise applications due to		
and	Heat	Detector Base	Potter	PAD100-6B		potential large temperature fluctuations.		Alarm
			Potter	PAD100-0D				
evices	: Detection - Temperature	Heat Detection - Fixed Temperature	Potter	PAD100-HD	Use in areas identified.	Boiler rooms		Alarm
Â	Detection [emperat				Follow manufacturer and NFPA 72 spacing criteria.	Kitchens		Alarm
Ĩ.	np					Generator rooms		Alarm
at	er De					Areas exposed to sunlight (skylights)		Alarm
Initiating	L L					Kiln Rooms		Alarm
In	Heat Fixed <b>7</b>					Areas not suitable for smoke detection due to use of space.		Alarm
	<b>F</b>	Detector Base	Potter	PAD100-6B				
	L.	Duct Smoke Detector	Potter	PAD100-DUCT		In locations where required by code.		Supervisory
	με	Duct Smoke Sensor	Potter	PAD100-DD				
	Other							

General Category	Туре	Component						
	Туре	Component	N.C	. M. 1.1	Destar Notes			
r		Ĩ	Manufacturer	· Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action
				PAD100-SIM,				
				PAD100-DIM, PAD100-OROI,				
		Input Modules	Potter	PAD100-TRTI	Do not use miniature modules (PAD100-MIM)	Fire sprinkler water flow alarms	Per manufacturer and NEC requirements	Alarm
	S				Dual module can be used where inputs are adjacent to			
	ule				each other.	Fire sprinkler supervisory valve switches		Supervisory
	Input Modules				Combination relay/input modules can be used where control points and inputs are adjacent to each other.	Tim		
	<b>[t</b> ]				control points and inputs are adjacent to each other.	Fire sprinkler supervisory pressure switches Kitchen hood fire suppression systems		Supervisory Alarm
	nd					Beam smoke detectors		Alarm
Ň	In							Alailli
orie						Supervisor power for elevator shunt trip		Supervisory
Accessories						For monitoring dry contacts of any other system or device that is required to be monitored and is not-addressable.		Various
and A	70			PAD100-RM, PAD100-OROI,				
	ıle	Output Modules	Potter	PAD100-TRTI	Provide with isolation relay for shutdown connections.	HVAC shutdown	Per manufacturer and NEC requirements	
Modules	Output Modules				Combination relay/input modules can be used where		DCM to only be used for monitoring devices in the same	
Ĩ	t N				control points and inputs are adjacent to each other.	Smoke dampers	room.	
$\mathbf{Z}$	nc					Magnetic door holder control		
	Itr					Elevator recall		
	Ō					Elevator shunt trip For controlling any other system or device that is required		
	-					to be controlled by the fire alarm system.		
				DAD100 CD4		to be controlled by the fire alarm system.		
				PAD100-SIM, PAD100-DIM,				
	or les			PAD100-DIM, PAD100-OROI,				
	ato Iul	Isolator Modules	Potter	PAD100-OROI, PAD100-TRTI			Per manufacturer and NEC requirements	
	<b>I</b> solator Modules							
	ľ X							

					Matrix A-Sprinklered	I		
General Category	Туре	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action
	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-				· ·	* *	
p		Speaker	Potter	FASPKR-R, FASPKR-W FASPKR-W	System to provide intelligibility throughout per NFPA 72.			
lances an es		Strobe	Potter					
Notification Appliances and Accessories		Combination Speaker/ Strobe		SPKSTR-24CLPPR, SPKSTR-24CLPPW	Provide low frequency in nap or sleeping areas.			
otificati		Surface Backbox		SPKRBB	Provide surface backbox for all exposed installations.	Provide beam smoke detector with protective guard when located in areas where subject to damage e.g., gyms, multipurpose rooms, etc.		
Ż		Protective Guard	STI	STI-9711, STI-9714	Provide notification appliances with protective guard when located in areas where subject to damage e.g., gyms, multipurpose rooms, etc.			
		Document Storage Cabinet	Mier Products	BW-DocBox				
Miscellaneous		Shut down relays		MR-101, MR-201, RIC-1, RIC-2, etc.	Provide isolation relays powered by 24 VDC when used for interfacing to other systems, e.g., HVAC shutdown.			
lano								
scel								
Mi								