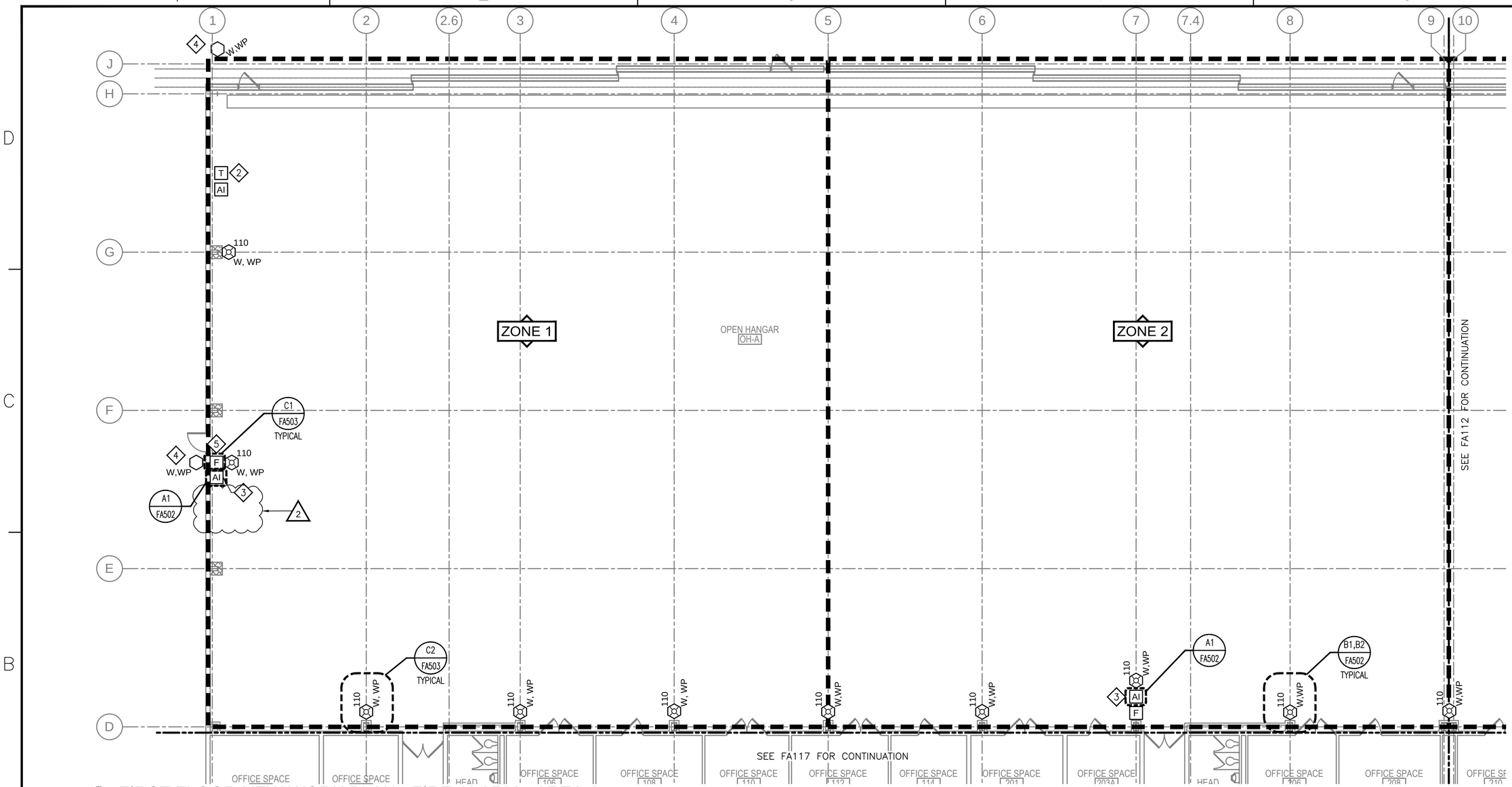

A1 FIRST FLOOR NEW WORK PLAN - FIRE ALARM - AREA A

SCALE: 1/8" = 1'-0"

SHEET NOTES

1. CONDUIT MUST ENTER THE BOTTOM OF EACH FIRE ALARM APPLIANCE. CONDUIT MUST NOT ENTER FROM THE SIDES OR TOP OF THE APPLIANCE.
2. PROVIDE EACH ADDRESSABLE MODULE WITHIN HANGAR BAY IN MINIMUM NEMA 4 ENCLOSURE WITH CLEAR FRONT.
3. PROVIDE MANUAL PULL STATION, NOTIFICATION APPLIANCES IN HANGAR BAY AND EXTERIOR NOTIFICATION APPLIANCES MINIMUM NEMA 4.
4. PROVIDE MASS NOTIFICATION/FIRE ALARM NOTIFICATION APPLIANCES, MANUAL PULL STATIONS, TEMPERATURE SENSORS AND ASSOCIATED MODULES AS INDICATED ON THE DRAWING AND ALL ASSOCIATED FIRE ALARM CONDUIT/CIRCUITS.

KEY NOTES

1. NOT USED.
2. PROVIDE LOW TEMPERATURE SENSOR SET AT 40 DEGREES FAHRENHEIT APPROXIMATELY 8 FEET ABOVE THE FINISHED FLOOR. MONITOR MODULE MUST SUPERVISE TEMPERATURE SENSOR. PROVIDE LOW TEMPERATURE SENSOR AND MONITOR MODULE WITHIN A MINIMUM NEMA 4 ENCLOSURE.
3. PROVIDE ADDRESSABLE MONITOR MODULE FOR MANUAL PULL STATION. PROVIDE PULL STATION A MINIMUM NEMA 4 WITH MINI MODULE.
4. PROVIDE SPEAKER AT 8-WATT TAP AT APPROXIMATELY 30 FEET ABOVE FINISHED FLOOR.
5. MAINTAIN A MINIMUM 5 FOOT SEPARATION BETWEEN MANUAL PULL STATION AND AFFF MANUAL RELEASE STATION.

CAUTION: IF THIS PLAN IS A REDUCTION, GRAPHIC SCALE MUST BE USED

0 4' 8' 12' 16'

1/8" = 1'-0

KEY PLAN

A	B	C
D	E	F

STM	DESCRIPTION	DATE	APPR
1	REMOVE RELAY	6/1/2016	
	FINAL SUBMISSION	5/2/2016	

NAVFAC

COMMONWEALTH OF VIRGINIA
MATTHEW J. BATBOUTA
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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES	MCP	DRW	LDB	CHK	MJB

PM/DM KPL/IAS

BRANCH MANAGER

CHIEF ENG/ARCH Mark J. Airaghi, PE

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAS OCEANA ~ VIRGINIA BEACH, VIRGINIA
HAMPTON ROADS IPT

NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA

HANGAR 111 FIRE PROTECTION AND STRUCTURAL REPAIRS

1st FLOOR NEW WORK PLAN - FIRE ALARM - AREA A

SCALE: AS SHOWN

EPROJECT NO.: 1372146

CONSTR. CONTR. NO.

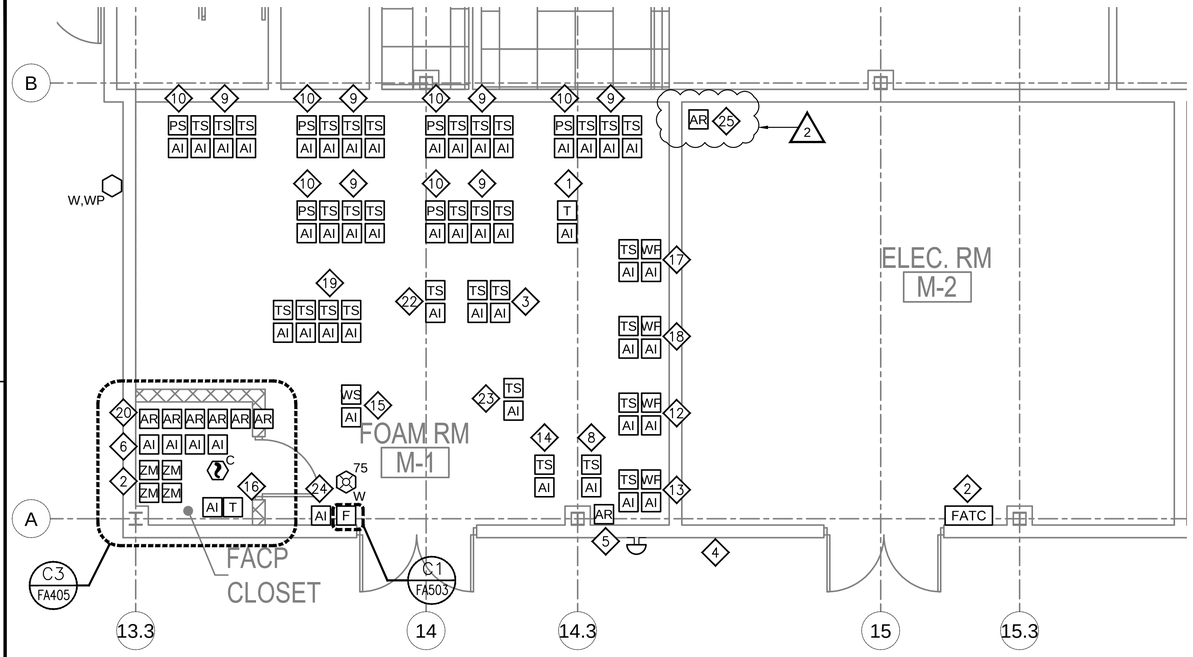
NAVFAC DRAWING NO. 12716315

SHEET 93 OF 170

FA111

DRAWFORM REVISION: 10 MAY 2014

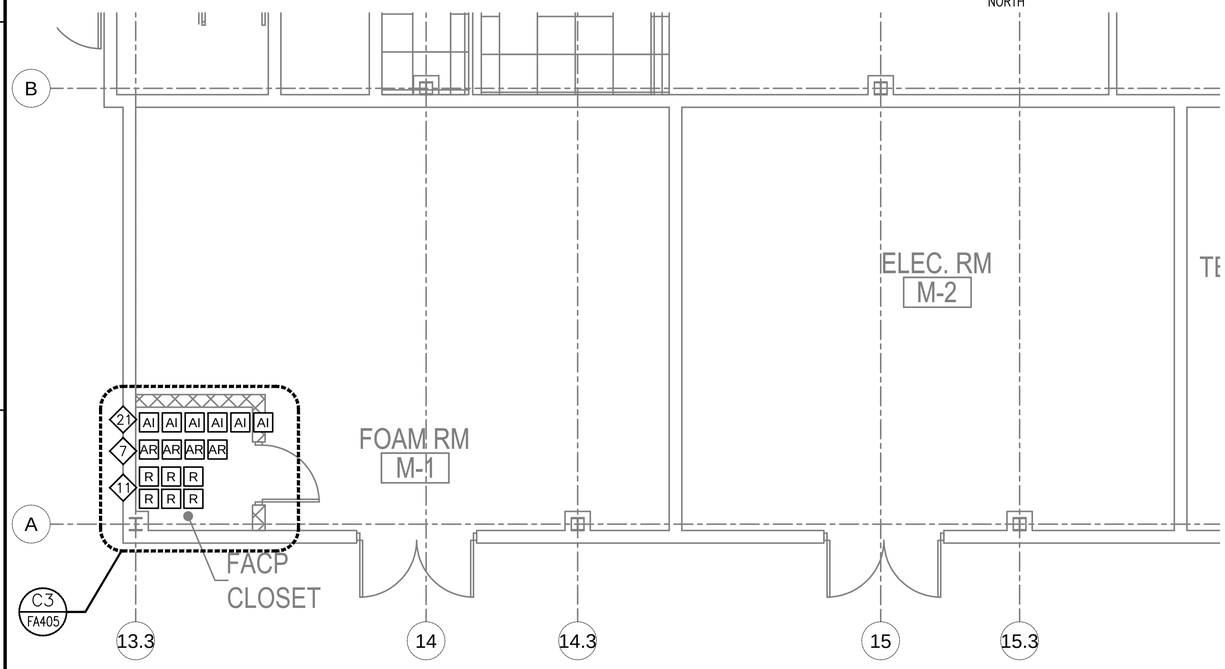
FILE NAME: G:\86\18793\02 BIM-CADD\2.1 Cadd Files\1372146_FA111.dwg LAYOUT NAME: Area A PLOTTED: Wednesday, June 01, 2016 - 9:17am USER: tdberry



ENLARGED PLAN - FOAM ROOM - NEW WORK PLAN - FIRE ALARM CONTROL PANEL

C1 SCALE: 1/4" = 1'-0"

PROJECT NORTH



ENLARGED PLAN - FOAM ROOM - NEW WORK PLAN - FOAM RELEASING CONTROL PANEL

A1 SCALE: 1/4" = 1'-0"

PROJECT NORTH

SHEET NOTES

1. PROVIDE FIRE ALARM CONTROL PANELS IN NEW FIRE ALARM CLOSET. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON FIRE ALARM CLOSET.

KEY NOTES

1. PROVIDE LOW TEMPERATURE SENSOR WITH MONITOR MODULE SET AT 40° FAHRENHEIT.
2. EXTEND AND RECONNECT THE FOLLOWING EXISTING CIRCUITS (ZONES) TO ZONE MODULES LOCATED IN FIRE ALARM CLOSET AND CONNECT TO THE BUILDING FIRE ALARM/MASS NOTIFICATION CONTROL PANEL. PROVIDE MODULES IN FIRE ALARM MODULE CABINET. PROVIDE FIRE ALARM TERMINAL CABINET AT CONNECTION TO EXISTING CIRCUITS.
   - ZONE 2 – FLOOR 1 MANUAL PULL STATIONS
   - ZONE 3 – FLOOR 2 MANUAL PULL STATIONS
   - ZONE 4 – FLOOR 1 SMOKE DETECTORS
   - ZONE 5 – FLOOR 2 SMOKE DETECTORS
3. PROVIDE ADDRESSABLE MONITOR MODULES FOR VALVE SUPERVISORY SWITCH OF CONCENTRATE LINE TO PROPORTIONER AND RETURN LINE.
4. PROVIDE CABLE FROM EXISTING ANTENNAE TO RELOCATED MONACO PANEL. EXISTING ANTENNAE LOCATED OUTSIDE OF ELECTRICAL ROOM.
5. PROVIDE ELECTRIC BELL. ELECTRIC BELL MUST ACTIVATE UPON WATER FLOW DETECTION.
6. PROVIDE ADDRESSABLE MONITOR MODULES FOR THE BUILDING FIRE ALARM/MASS NOTIFICATION CONTROL PANEL TO MONITOR AFFF RELEASE, ALARM, SUPERVISORY AND TROUBLE CONDITIONS ON THE RELEASING CONTROL PANEL. PROVIDE MODULES IN FIRE ALARM MODULE CABINET.
7. PROVIDE ADDRESSABLE RELAY MODULES COMPATIBLE WITH THE E3 SERIES RELEASING CONTROL PANEL FOR THE PURPOSES OF PROVIDING A SIGNAL TO THE FIRE ALARM/MASS NOTIFICATION CONTROL PANEL OF AFFF RELEASE, ALARM, SUPERVISORY AND TROUBLE CONDITIONS. PROVIDE MODULES IN FIRE ALARM MODULE CABINET.
8. PROVIDE ADDRESSABLE MONITOR MODULE FOR VALVE SUPERVISION OF SPRINKLER SYSTEM TEST HEADER CONTROL VALVE. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
9. PROVIDE ADDRESSABLE MONITOR MODULES FOR THE FOLLOWING CONDITIONS ON THE AFFF DELUGE VALVE ASSEMBLY. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
   - SUCTION CONTROL VALVE
   - DISCHARGE CONTROL VALVE
   - TEST HEADER CONTROL VALVE
10. PROVIDE ADDRESSABLE MONITOR MODULE FOR THE ALARM PRESSURE SWITCH.
11. PROVIDE A RELEASING MODULE FOR EACH DELUGE VALVE LOCATED IN THE FOAM ROOM. PROVIDE RELEASING MODULES WITHIN FIRE ALARM CLOSET AND ENERGIZE MODULES FROM RELEASING CONTROL PANEL 24 VOLT CIRCUIT.
12. PROVIDE ADDRESSABLE MONITOR MODULES FOR VALVE SUPERVISION AND WATER FLOW DETECTION ON THE FIRST FLOOR OFFICE CONTROL VALVE ASSEMBLY. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
13. PROVIDE ADDRESSABLE MONITOR MODULES FOR VALVE SUPERVISION AND WATER FLOW DETECTION ON THE SECOND FLOOR OFFICE CONTROL VALVE ASSEMBLY. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
14. PROVIDE ADDRESSABLE MONITOR MODULE FOR VALVE SUPERVISION OF THE ISOLATION VALVE FOR THE AFFF SYSTEM. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
15. PROVIDE WATER SENSOR WITH MONITOR MODULE.
16. PROVIDE LOW TEMPERATURE SENSOR WITH MONITOR MODULE IN FIRE ALARM CLOSET SET AT 60° FAHRENHEIT.
17. PROVIDE ADDRESSABLE MONITOR MODULES FOR VALVE SUPERVISION AND WATER FLOW DETECTION ON CEILING ZONE 1 OF THE HANGAR BAY CONTROL VALVE ASSEMBLY. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
18. PROVIDE ADDRESSABLE MONITOR MODULES FOR VALVE SUPERVISION AND WATER FLOW DETECTION ON CEILING ZONE 2 OF THE HANGAR BAY CONTROL VALVE ASSEMBLY. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
19. PROVIDE ADDRESSABLE MONITOR MODULES FOR VALVE SUPERVISION OF THE FOLLOWING FOAM CONCENTRATE LINE CONTROL VALVES. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
   - SURROGATE TANK
   - AFFF TANK 1
   - AFFF TANK 2
   - TANK TO TANK
20. PROVIDE ADDRESSABLE RELAY MODULES FOR THE PURPOSES OF PROVIDING A SIGNAL TO THE RELEASING CONTROL PANEL OF ACTIVATION OF EACH OF THE PRESSURE ALARM SWITCHES. TOTAL OF SIX.
21. PROVIDE ADDRESSABLE MONITOR MODULES COMPATIBLE WITH THE E3 SERIES RELEASING CONTROL PANEL FOR THE PURPOSE OF MONITORING EACH OF THE PRESSURE ALARM SWITCHES. TOTAL OF SIX.
22. PROVIDE ADDRESSABLE MONITOR MODULE FOR VALVE SUPERVISION OF CONCENTRATE CONNECTION VALVE BETWEEN TANKS. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
23. PROVIDE ADDRESSABLE MONITOR MODULE FOR VALVE SUPERVISION OF STRAINER ISOLATION VALVE. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.
24. PROVIDE ADDRESSABLE MONITOR MODULE FOR MANUAL PULL STATION. PROVIDE PULL STATION A MINIMUM NEMA 4 WITH MINI MODULE.
25. PROVIDE ADDRESSABLE RELAY WITHIN 3 FEET OF SUMP PUMP SHUNT TRIP.

CAUTION: IF THIS PLAN IS A REDUCTION, GRAPHIC SCALE MUST BE USED

0 2' 4' 6' 8'

¼" = 1'-0

KEY PLAN

A	B	C
D	E	F

SYM	DESCRIPTION	DATE	APPR
1	SUMP PUMP SHUNT	6/1/2016	
1	FINAL SUBMISSION	5/2/2016	

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PM/DM KPL/IAS

BRANCH MANAGER

CHIEF ENG/ARCH Mark J. Airaghi, PE

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND MID-ATLANTIC
INS OCEANA – VIRGINIA BEACH, VIRGINIA

NAVAL AIR STATION OCEANA
VIRGINIA BEACH, VIRGINIA

HANGAR 111 FIRE PROTECTION AND STRUCTURAL REPAIRS

FOAM ROOM NEW WORK PLAN - FIRE ALARM

SCALE: AS SHOWN

EPROJECT NO.: 1372146

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12716328

SHEET 106 OF 170

FA402

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: G:\86\18793\02 BIM-CADD\2.1 Cadd Files\1372146_FA402.dwg LAYOUT NAME: Area A PLOTTED: Wednesday, June 01, 2016 - 9:17am USER: lbberry

RELEASING CONTROL PANEL OPERATION MATRIX

HANGAR 111 RELEASING CONTROL PANEL MATRIX	ANNUNCIATION				NOTIFICATION						CONTROL						
INITIATING DEVICES	Alarm Annunciation RCP and send status to FMCP	Alarm AFFF Discharge Annunciation RCP and send status to FMCP	Supervisory Annunciation RCP and send status to FMCP	Trouble Annunciation RCP and send status to FACP	Activate Rotating Blue Beacon in Zone 1	Activate Rotating Blue Beacon in Zone 2	Activate Rotating Blue Beacon in Zone 3	Activate Rotating Blue Beacon in Zone 4	Activate Rotating Blue Beacon in Zone 5	Activate Rotating Blue Beacon in Zone 6	Activate AFFF control Valve for Zone 1 See Notes 1 & 2	Activate AFFF control Valve for Zone 2 See Notes 1 & 2	Activate AFFF control Valve for Zone 3 See Notes 1 & 2	Activate AFFF control Valve for Zone 4 See Notes 1 & 2	Activate AFFF control Valve for Zone 5 See Notes 1 & 2	Activate AFFF control Valve for Zone 6 See Notes 1 & 2	De-Activate Flow Control Valves (all zones) See Note 3
Hangar Bay Zone 1 (First IR Detector)	X				X												
Hangar Bay Zone 1 (Second IR Detector)		X			X						X						
Hangar Bay Zone 2 (First IR Detector)	X					X											
Hangar Bay Zone 2 (Second IR Detector)		X				X						X					
Hangar Bay Zone 3 (First IR Detector)	X						X										
Hangar Bay Zone 3 (Second IR Detector)		X					X						X				
Hangar Bay Zone 4 (First IR Detector)	X							X									
Hangar Bay Zone 4 (Second IR Detector)		X						X						X			
Hangar Bay Zone 5 (First IR Detector)	X								X								
Hangar Bay Zone 5 (Second IR Detector)		X							X						X		
Hangar Bay Zone 6 (First IR Detector)	X									X							
Hangar Bay Zone 6 (Second IR Detector)		X								X						X	
AFFF Manual Pull Station Zone 1		X			X						X						
AFFF Manual Pull Station Zone 2		X				X						X					
AFFF Manual Pull Station Zone 3		X					X						X				
AFFF Manual Pull Station Zone 4		X						X						X			
AFFF Manual Pull Station Zone 5		X							X						X		
AFFF Manual Pull Station Zone 6		X								X						X	
AFFF Pressure Switch Flow - Zone 1 (Signal Received from Fire Alarm/Mass Notification Panel)					X												
AFFF Pressure Switch Flow - Zone 2 (Signal Received from Fire Alarm/Mass Notification Panel)						X											
AFFF Pressure Switch Flow - Zone 3 (Signal Received from Fire Alarm/Mass Notification Panel)							X										
AFFF Pressure Switch Flow - Zone 4 (Signal Received from Fire Alarm/Mass Notification Panel)								X									
AFFF Pressure Switch Flow - Zone 5 (Signal Received from Fire Alarm/Mass Notification Panel)									X								
AFFF Pressure Switch Flow - Zone 6 (Signal Received from Fire Alarm/Mass Notification Panel)										X							
Any Abort Station			X														X
Releasing Panel Disable AFFF Switch			X														X
Releasing Panel AC Power Fail				X													
Releasing Panel Low Battery				X													
Releasing Panel open circuit				X													
Releasing Panel ground fault				X													
SLC/Initiating Device Circuit Short				X													
Notification Appliance Circuit Short				X													

Notes:
1. ACTIVATION OF TWO (2) IR FLAME DETECTORS WITHIN THE SAME AFFF ZONE WILL INITIATE THE ACTIVATION OF THE APPLICABLE AFFF ZONE.
2. PROGRAM A TWO (2) SECOND TIME DELAY BETWEEN ACTIVATION OF MULTIPLE AFFF ZONES.
3. PROGRAM A TWO (2) SECOND TIME DELAY ON CLOSING FLOW CONTROL VALVES. SIMULTANEOUS CLOSURE OF MULTIPLE FLOW CONTROL VALVES IS PROHIBITED.
4. A MAXIMUM OF THREE AFFF ZONES CAN OPERATE. AFTER THE ACTIVATION OF THE 3RD ZONE, THE AFFF ZONES ARE LOCKED OUT. THE IR DETECTION MUST CONTINUE TO OPERATE AND REPORT TO THE RELEASING CONTROL PANEL, BUT THE IR DETECTORS MUST NOT CAUSE OPERATION OF FURTHER AFFF ZONES.

FIRE ALARM OPERATION MATRIX

HANGAR 111 FIRE ALARM/MASS NOTIFICATION PANEL MATRIX	ANNUNCIATION				SIGNAL TO RELEASING CONTROL PANEL						MONACO TRANSMISSION TO DISPATCH				NOTIFICATION		CONTROL		
INITIATING DEVICES	Alarm Annunciation FACP	Alarm AFFF Discharge Annunciation FACP	Supervisory Annunciation FACP	Trouble Annunciation FACP	AFFF Pressure Switch Flow - Zone 1	AFFF Pressure Switch Flow - Zone 2	AFFF Pressure Switch Flow - Zone 3	AFFF Pressure Switch Flow - Zone 4	AFFF Pressure Switch Flow - Zone 5	AFFF Pressure Switch Flow - Zone 6	Alarm Signal	AFFF Discharge Signal	Supervisory Signal	Trouble Signal	Sound General Evacuation Speakers and Strobes Throughout Building	Sound Mass Notification Message on Speakers and activate strobes. Temporarily overide Fire Alarm # in Alarm.	Activate Exterior Electric Bell	Shut Down Associated HVAC Unit	Shut Down All HVAC Units and Close all Low Leakage Air Dampers	Shunt Sump Pump
Alarm Signal from Releasing Panel	X										X				X					
Alarm AFFF Discharge Signal from Releasing Panel		X										X			X		X			X
Supervisory Signal from Releasing Panel			X										X							
Trouble Signal from Releasing Panel				X										X						
Floor 1 Manual Pull Stations (Existing Zone 2)	X										X				X					
Floor 2 Manual Pull Stations (Existing Zone 3)	X										X				X					
Floor 1 Smoke Detectors (Existing Zone 4)	X										X				X					
Floor 2 Smoke Detectors (Existing Zone 5)	X										X				X					
Wet Pipe Sprinkler Flow Switch	X										X				X		X			
AFFF Pressure Switch - Zone 1		X			X							X			X		X			X
AFFF Pressure Switch - Zone 2		X				X						X			X		X			X
AFFF Pressure Switch - Zone 3		X					X					X			X		X			X
AFFF Pressure Switch - Zone 4		X						X				X			X		X			X
AFFF Pressure Switch - Zone 5		X							X			X			X		X			X
AFFF Pressure Switch - Zone 6		X								X		X			X		X			X
Smoke Detector	X										X				X					
Valve Tamper Switch			X										X							
Temperature Sensor			X										X							
Water Sensor			X										X							
Duct Detector			X										X					X		
HVAC Shut Down Button			X										X						X	
Activation of Mass Notification Microphone			X										X			X				
Activation of Mass Notification from Waves/Base Wide System			X										X			X				
Fire Alarm AC Power Fail				X										X						
Fire Alarm System Low Battery				X										X						
Fire alarm panel open circuit				X										X						
Fire alarm panel ground fault				X										X						
SLC/Initiating Device Circuit Short				X										X						
Notification Appliance Circuit Short				X										X						

FIRE ALARM AND MASS NOTIFICATION SYSTEM CIRCUIT SCHEDULE

FLOOR	ZONE	CONTROL EQUIPMENT LOCATION	FIRE ALARM SLC NO.	RELEASING SLC NO.	AMPLIFIER AUDIO CIRCUIT NO.[1]	IR DETECTOR POWER SUPPLY PS PANEL NO.	IR DETECTOR POWER SUPPLY CIRCUIT NO.	FIRE ALARM STROBES POWER SUPPLY NAP PANEL NO.	FIRE ALARM STROBES POWER SUPPLY CIRCUIT NO.	BEACON POWER SUPPLY NAP PANEL NO.	BEACON POWER SUPPLY CIRCUIT NO.	BELL POWER SUPPLY CIRCUIT NO.
First	1	FACP Closet	1	1A	1	1 1 1 1	1-1 1-2(SPARE) 1-3 1-4(SPARE)	1	1-1	1	1-3 1-4	NA
First	2	FACP Closet	1	1A	1	2 2 2 2	2-1 2-2(SPARE) 2-3 2-4(SPARE)	1	1-2			NA
First	3	FACP Closet	1	1A	1	3 3 3 3	3-1 3-2(SPARE) 3-3 3-4(SPARE)	2	2-1	2	2-3 2-4	NA
First	4	FACP Closet	1	2A	2	4 4 4 4	4-1 4-2(SPARE) 4-3 4-4(SPARE)	2	2-2			NA
First	5	FACP Closet	1	2A	2	5 5 5 5	5-1 5-2(SPARE) 5-3 5-4(SPARE)	3	3-1	3	3-3 3-4	NA
First	6	FACP Closet	1	2A	2	6 6 6 6	6-1 6-2(SPARE) 6-3 6-4(SPARE)	3	3-2			NA
First		FACP Closet	1	3A	NA	NA	NA	NA	NA	NA	NA	NA
Second		FACP Closet	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Third	M	FACP Closet	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Exteror	NA	FACP Closet	NA	NA	3	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Each amplifier cabinet shall contain a backup amplifier of equal size to the primary amplifier.

SYM	DESCRIPTION	DATE	APPR
1	MATRIX SUMP PUMP REVISION	6/1/2016	
1	FINAL SUBMISSION	5/2/2016	

NAVFAC

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FIRE PROTECTION

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NAS OCEANA - VIRGINIA BEACH, VIRGINIA
HAMPTON ROADS PIT
NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA
HANGAR 111 FIRE PROTECTION AND STRUCTURAL REPAIRS
FIRE ALARM MATRICES AND SCHEDULES

SCALE: AS SHOWN
EPROJECT NO.: 1372146
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12716336
SHEET 114 OF 170
FA701

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: G:\86\18793\02 BIM-CADD\2.1 Cadd Files\1372146_FA701.dwg LAYOUT NAME: Area A PLOTTED: Wednesday, June 01, 2016 - 9:17am USER: idberry