FIRE ALARM SYSTEM GENERAL NOTES

1. GENERAL SCOPE – DEMOLISH THE EXISTING DEVICES AND PROVIDE NEW FIRE ALARM NOTIFICATION APPLIANCES AS SHOWN ON THE DRAWINGS TO COORDINATE WITH THE MODIFICATION OF BUILDING 4630. THE EXISTING FIRE ALARM CONTROL PANEL IS AN AFP–200 INTELLIGENT NOTIFIER PANEL AND IS LOCATED AT THE PLAN NORTH END OF THE BUILDING.

2. APPLICABLE CODES:

UFC 1–200–01*	GENERAL BUILDING REQUIREMENTS, 1 NOVEMBER 2014.
UFC 3–600–01*	FIRE PROTECTION ENGINEERING FOR FACILITIES, 28 NOVEMBER 2016.
UFC 3–600–10N*	FIRE PROTECTION ENGINEERING, AUGUST 2007.
UFC 4–021–01*	MASS NOTIFICATION SYSTEMS, JANUARY 2010.
NFPA 70	NATIONAL ELECTRIC CODE (NEC), 2017.
NFPA 72	NATIONAL FIRE ALARM CODE, 2016

*STANDARDS ARE PROVIDED FOR DESIGN REFERENCE ONLY.

3. NEW DEVICES SHALL BE UL LISTED.

4. SIGNALING LINE, INITIATING DEVICE, AND NOTIFICATION APPLIANCE CIRCUITS SHALL MATCH THE WIRING CLASSIFICATION OF EXISTING CIRCUITS.

5. IN FINISHED AREAS, ALL NEW CONDUIT AND BACK BOXES SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL NEW JUNCTION BOXES AND COVERS SHALL BE PAINTED RED IN UNFINISHED AREAS. IN FINISHED AREAS, ANY EXPOSED CONDUIT AND JUNCTION BOXES SHALL BE PAINTED TO MATCH THE ROOM FINISH. ALL NEW JUNCTION BOXES SHALL HAVE A PERMANENT, MACHINE PRINTED LABEL READING "FIRE ALARM CIRCUIT" ON THE INSIDE COVER. ALL FIRE ALARM CONDUITS IN FINISHED AREAS SHALL BE MARKED WITH ¾–IN RED BANDS EVERY 10 FEET, AT EACH SIDE OF A FLOOR, WALL, OR CEILING PENETRATION.

6. ALL SYSTEM POWER AND GROUND CIRCUITS SHALL BE TYPE "THHN" SOLID COPPER SIZED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND THE APPLICABLE CODES AND BE INSTALLED IN EMT TYPE CONDUIT.

7. ALL WIRING, CABLES, BOXES, TROUGHS AND OTHER RELATED EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).

8. ALL PENETRATIONS OF FIRE RESISTANCE RATED BARRIERS, WALLS, AND, SHAFT/ASSEMBLIES SHALL BE DRILLED AND THEN SEALED WITH AN APPROVED UL FIRE–RATED THROUGH–PENETRATION ASSEMBLY.

9. UL CLASSIFICATIONS AND MATERIAL PRODUCT DATA SHEETS FOR ALL FIRE STOPPING SYSTEMS SHALL BE SUBMITTED AND APPROVED BEFORE ANY FIRE STOPPING IS INSTALLED.

10. MANUAL FIRE ALARM STATION SHALL BE DOUBLE–ACTION TYPE AND SEMI–FLUSH MOUNTED IN FINISHED SPACES.

11. WALL–MOUNTED VISIBLE AND COMBINATION AUDIBLE/VISIBLE ALARM NOTIFICATION APPLIANCES SHALL BE MOUNTED 96–INCHES ABOVE THE FINISHED FLOOR MEASURED TO THE BOTTOM OF THE LENS, OR 6–INCHES BELOW THE CEILING MEASURED TO THE TOP OF THE LENS (WHICH EVER IS LOWER).

12. VISIBLE DEVICES AND VISIBLE/AUDIBLE DEVICES SHALL UTILIZE A CLEAR STROBE AND BE MARKED "ALERT".

13. SOUND PRESSURE LEVEL FROM AUDIBLE ALARM APPLIANCES SHALL NOT EXCEED 110 DBA IN ANY OCCUPIED AREA.

14. SMOKE DETECTORS SHALL BE PROVIDED AT ANY LOCATIONS WHERE NAC BOOSTER PANELS ARE PROVIDED.

FIRE ALARM SYSTEM GENERAL NOTES (CONT)

15. 25% SPARE CAPACITY SHALL BE PROVIDED ON POWER SUPPLIES AND INDIVIDUAL CIRCUITS.

16. SECONDARY POWER SUPPLY SHALL BE VIA SEALED LEAD CALCIUM BATTERY CAPABLE OF OPERATING THE FIRE ALARM SYSTEM ON STANDBY FOR EITHER 48 HOURS IN STANDBY OR TROUBLE FOLLOWED BY 15 MINUTES IN ALARM. CHARGING AND METERING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72.

17. PROVIDE MONITOR MODULES TO SUPERVISE ALL SPRINKLER VALVE TAMPER SWITCHES, FLOW/PRESSURE SWITCHES.

18. ALL DRAWINGS ARE CONCEPTUAL IN NATURE. THEY DO NOT SHOW THE EXACT LOCATIONS OF COMPONENTS NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL COMPONENTS FOR A PROPERLY INSTALLED AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES.

19. DEDICATED BATTERY CABINETS SHALL BE MOUNTED NO MORE THAN 3 FEET FROM THE FINISHED FLOOR.

FIRE ALARM LEGEND

Symbol	Description
CD	WALL MOUNTED COMBINATION HORN/STROBE (SUPERSCRIPT INDICATES CANDELA RATING)
CD	WALL MOUNTED COMBINATION HORN/STROBE TO BE DEMOLISHED
CD	EXISTING CEILING MOUNTED COMBINATION HORN/CLEAR STROBE TO REMAIN
	CEILING MOUNTED COMBINATION HORN/STROBE TO BE DEMOLISHED
CD	WALL MOUNTED CLEAR FIRE ALARM STROBE (SUPERSCRIPT INDICATES CANDELA RATING)
CD	CEILING MOUNTED CLEAR FIRE ALARM STROBE (SUPERSCRIPT INDICATES CANDELA RATING)
P	MANUAL PULL STATION
P	EXISTING MANUAL PULL STATION TO REMAIN
P	MANUAL PULL STATION TO BE DEMOLISHED
MM	MONITOR MODULE
	FLOW SWITCH
	TAMPER SWITCH
WP	WEATHER PROOF
HI/LO	HIGH/LOW PRESSURE SWITCH
FACP	EXISTING FIRE ALARM CONTROL PANEL
TRN	EXISTING TRANSMITTER
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR

SYM | DESCRIPTION | DATE | APPR

NAVFAC

COMMONWEALTH OF VIRGINIA
ALISON WAKELIN
Lic. No. 037705
01–MAY–18
PROFESSIONAL ENGINEER
SEAL

mbf
architects pa
317-C Pollock Street | New Bern, NC 28560
252.637.4573 | mbfarchitects.com
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
Stephen Demianczyk (BY EMAIL)
SATISFACTORY TO DATE 06/20/18
DES AJW DRW AEC CHK AJW
PM/DM E. Howard / R. Silva
BRANCH MANAGER DPS
CHIEF ENG/ARCH M. Durant
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND – MIDATLANTIC
IPT MARINE CORPS NAVAL STATION – NORFOLK, VA
MARINE CORPS AIR STATION CHERRY POINT, NC
P766 F-35B LIFT SYSTEM REPAIR FACILITY
BUILDING 4630
FIRE ALARM GENERAL NOTES AND LEGEND

SCALE:
EPROJECT NO. 1564839
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12771525
SHEET 55 OF 112
FA001
DRAWFORM REVISION: 10 MARCH 2009

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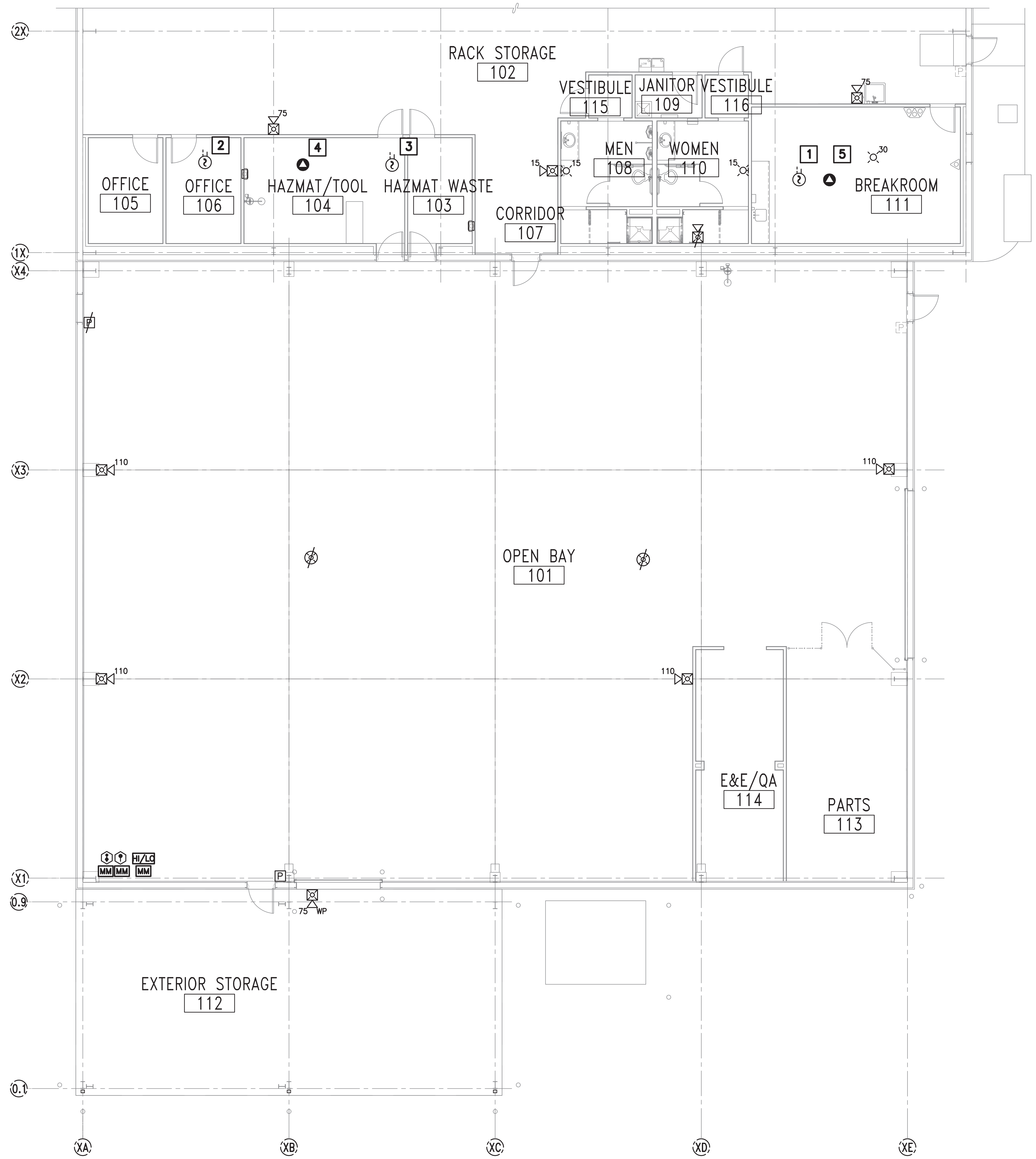
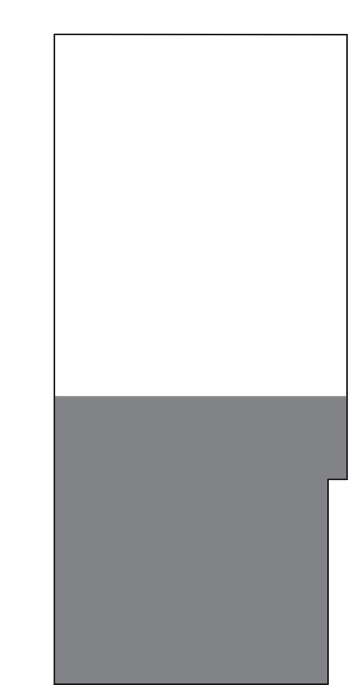


A2 FIRE ALARM PLAN

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

SHEET NOTES

1. PROVIDE DUCT SMOKE DETECTOR ON SUPPLY SIDE OF AHU-1 ON MECHANICAL PLATFORM. COORDINATE FINAL LOCATION WITH MECHANICAL.
2. PROVIDE DUCT SMOKE DETECTOR ON SUPPLY SIDE OF AHU-2. ON MECHANICAL PLATFORM COORDINATE FINAL LOCATION WITH MECHANICAL.
3. PROVIDE DUCT SMOKE DETECTOR ON SUPPLY SIDE OF OAU-1ON MECHANICAL PLATFORM. COORDINATE FINAL LOCATION WITH MECHANICAL.
4. PROVIDE CARBON MONOXIDE DETECTOR ABOVE PLATFORM 201
5. PROVIDE CARBON MONOXIDE DETECTOR ABOVE PLATFORM 202



A5 BUILDING 4630 KEY PLAN

SCALE: 1"=60'-0"

GRAPHIC SCALE: 1/8"=1'-0" 8' 0 4' 8' 16'

GRAPHIC SCALE: 1"=60' 60' 0 60' 120'

ALISON WAKELIN
Lic. No. 037705
01-MAY-18
COMMONWEALTH OF VIRGINIA PROFESSIONAL ENGINEER

mbf architects pa
317-C Pollock Street | New Bern, NC 28560
252.637.6373 | mbfarchitects.com

APPROVED	FOR COMMANDER NAVFAC
ACTIVITY	Stephen Demianczyk (BY EMAIL)
SATISFACTORY TO	DATE 06/20/18
DES AJW	DRW AEC / CHK AJW
PM/DM	E. Howard / R. Silva
BRANCH MANAGER	DPS
CHIEF ENG/ARCH	M. Durant
FIRE PROTECTION	DPS

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NAVAL FACILITIES ENGINEERING COMMAND ~ MIDATLANTIC
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P766 F-35B LIFT SYSTEM REPAIR FACILITY
BUILDING 4630
FIRE ALARM PLAN

SCALE:	
EPROJECT NO.:	1564839
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12771526
SHEET	56 OF 112

FA101

DRAWFORM REVISION: 10 MARCH 2009

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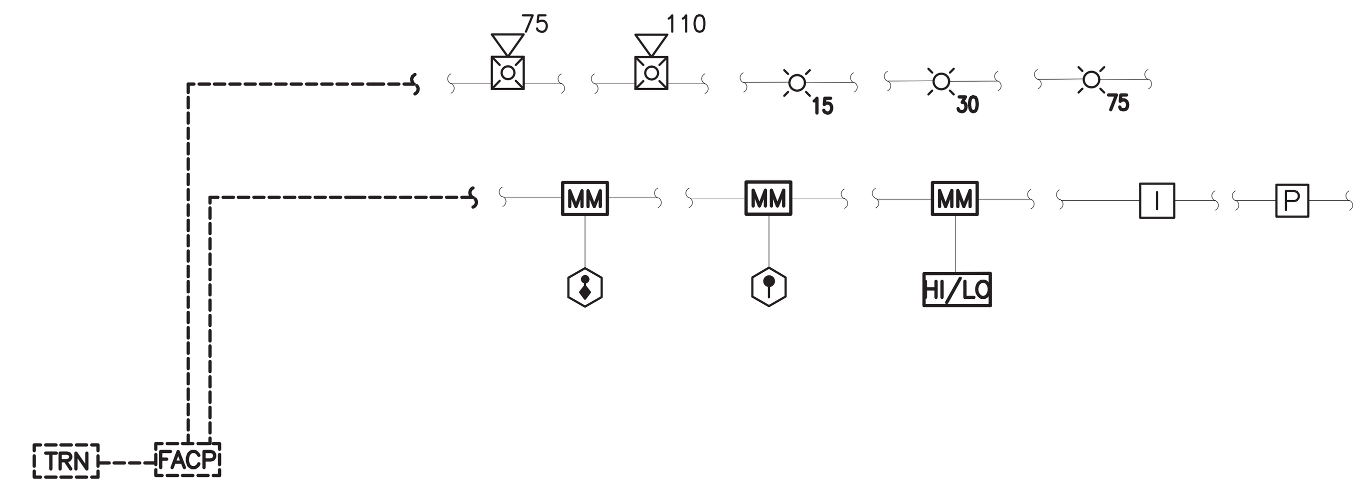

FIRST FLOOR

NOTE: NOT ALL FIRE ALARM DEVICES ARE DEPICTED IN RISER DIAGRAM.

C2 FIRE ALARM CONTROL UNIT RISER DIAGRAM

SCALE: NTS

FIRE ALARM INPUT	ACTIVATE AUDIBLE AND VISUAL FA EVACUATION THROUGHOUT BUILDING	ALARM CONDITION AT FACU	SUPERVISORY CONDITION AT FACU	TROUBLE CONDITION AT FACU	TRANSMIT ALARM SIGNAL TO FIRE DEPT.	TRANSMIT TROUBLE SIGNAL TO FIRE DEPT.	TRANSMIT SUPERVISORY SIGNAL TO FIRE DEPT.
MANUAL PULL STATION	●	●			●		
AUTOMATIC SPRINKLER FLOW SWITCH	●	●			●		
AUTOMATIC SPRINKLER SYSTEM TAMPER SWITCH			●				●
FACU CIRCUIT FAULT (OPEN, GROUND, SHORT)				●		●	
OTHER TROUBLE CONDITION				●		●	
HIGH/LOW PRESSURE SWITCH AT DRY PIPE RISER			●				●

OPERATION

A2 FIRE ALARM/MNS SEQUENCE OF OPERATIONS

SCALE: NTS

SYM | DESCRIPTION | DATE | APPR

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ALISON WAKELIN
Lic. No. 037705
01-MAY-18
PROFESSIONAL ENGINEER

mbf architects pa

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MARINE CORPS AIR STATION CHERRY POINT, NC
P766 F-35B LIFT SYSTEM REPAIR FACILITY
BUILDING 4630
FIRE ALARM DETAILS

SCALE:
EPROJECT NO. 1564839
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