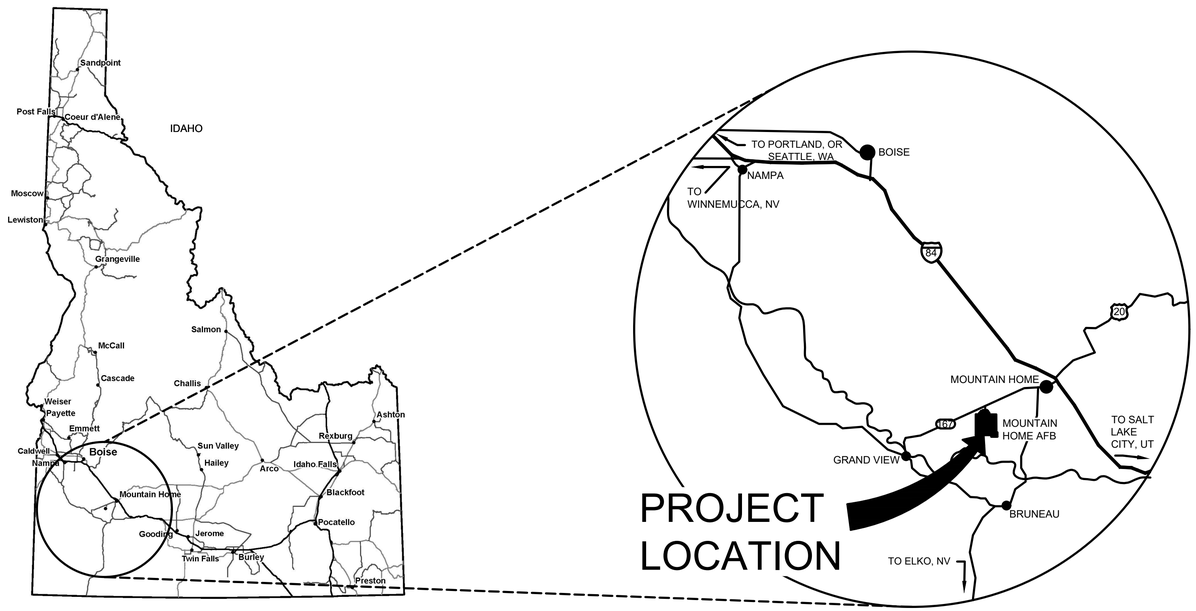
U.S. AIR FORCE

366 CES/CEN

MOUNTAIN HOME AIR FORCE BASE, ID
REPLACE FIRE ALARM SYSTEM, BLDG 2606
100% DESIGN SUBMITTAL



DELIVERY ORDER NO.: FA4897-25-F-0020

CONTRACT NO.: FA4897-20-D-0001

ISSUE DATE: 19 DECEMBER 2025

QUALITY CONTROL REVIEW

Signature — 12 DEC 2025 Date

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER

12/19/2025

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U.S. AIR FORCE

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: P. DIERK
SIZE: ANSI D
ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO.: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 10430451
SHEET NUMBER: 1 OF 14

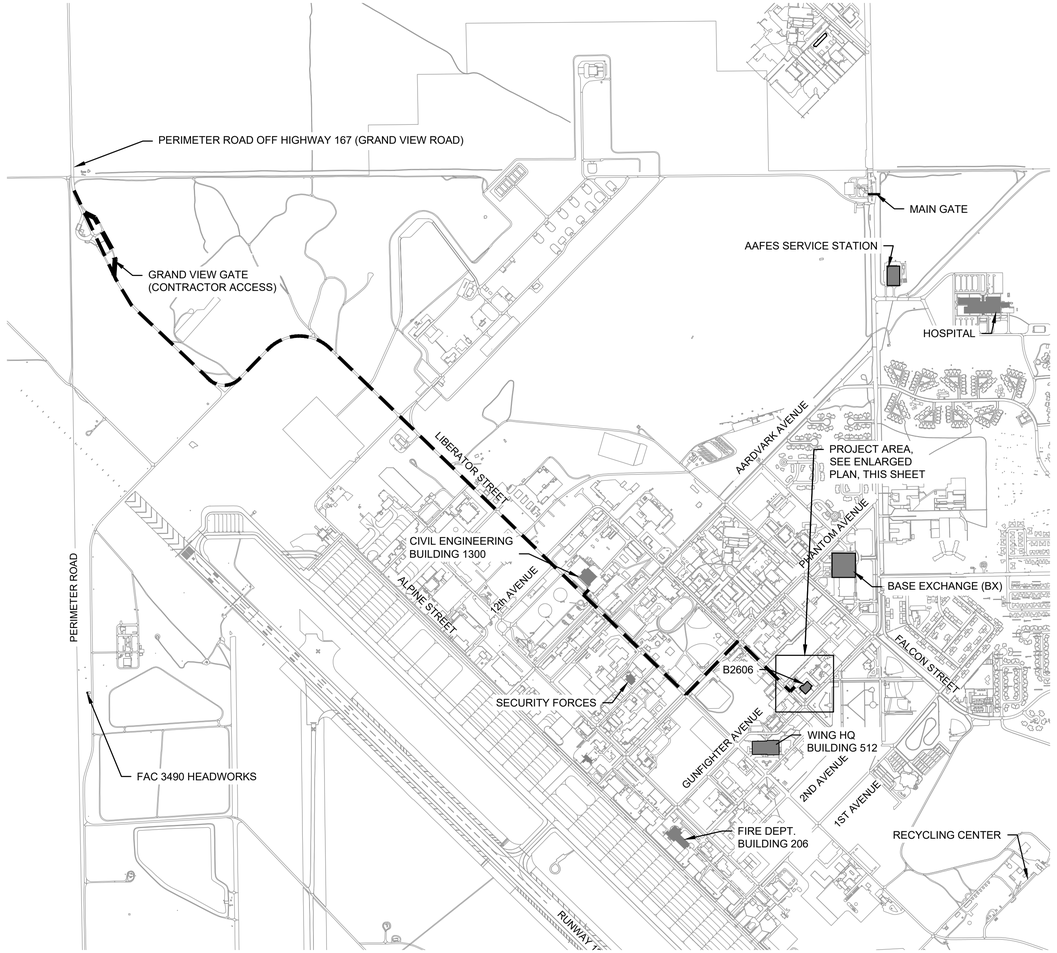
U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR
412 E. PARKCENTER BLVD.
BOISE, ID
(208) 387-7000
HDR Engineering, Inc.

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

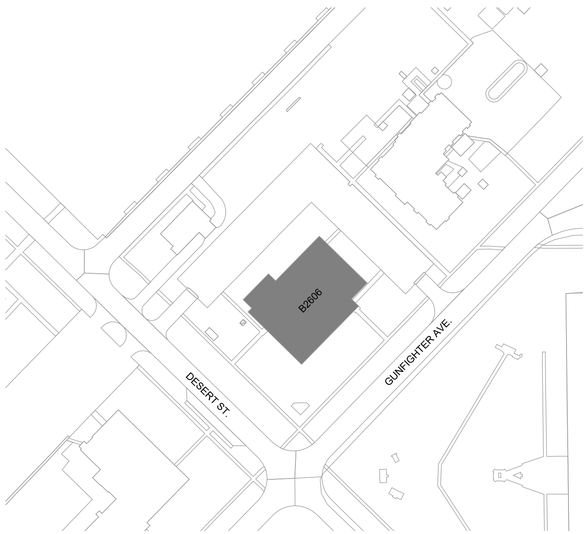
COVER SHEET

SHEET ID
B2606
G001



A1 CONTRACTOR ACCESS AND HAUL ROUTE

SCALE: 1" = 1000'



A6 PROJECT AREA

SCALE: 1" = 100'

LEGEND

CONTRACTOR ACCESS/HAUL ROUTE

BUILDING OF INTEREST

GENERAL NOTES

1. RESTORE STAGING AND STORAGE AREAS TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CONTRACTING OFFICER.
2. 30 DAYS MINIMUM PRIOR TO MOBILIZATION, THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A CONTRACTOR LAYDOWN YARD REQUEST TO THE BASE COMMUNITY PLANNER FOR COORDINATION AND APPROVAL (THIS INCLUDES STOCKPILE LOCATIONS).
3. IMPLEMENT BEST MANAGEMENT PRACTICES (BMPS) PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
4. COORDINATE HAUL ROUTES, LAYDOWN AREAS, AND UTILITY CONNECTIONS WITH THE CONTRACTING OFFICER FOR APPROVAL.

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER
12/19/2025

MARK	DESCRIPTION	DATE

ISSUE DATE:
19 DECEMBER 2025
DELIVERY ORDER NO:
FA4897-25-F-0017
CONTRACT NUMBER:
FA4897-20-D-0001
PROJECT NUMBER:
1042916
SHEET NUMBER:
2 OF 14

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: BERR
SIZE: ANSI D

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

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BOISE, ID
(208) 387-7000
HDR Engineering, Inc.

MOUNTAIN HOME AIR FORCE BASE
B2318 FIRE ALARM REPAIR

CONTRACTOR HAUL ROUTE

SHEET ID
B2606
G002

100% DESIGN SUBMITTAL

GENERAL FIRE ALARM AND MASS NOTIFICATION NOTES

1. PROVIDE A COMPLETE ADDRESSABLE FIRE ALARM AND MASS NOTIFICATION SYSTEM WITH EMERGENCY VOICE COMMUNICATIONS THROUGHOUT AS NOTED ON DRAWINGS. INSTALL SILENT KNIGHT 6820EVS SERIES FIRE ALARM / MASS NOTIFICATION CONTROL UNIT, SILENT KNIGHT EVS-RCU SUPERVISED REMOTE COMMAND UNIT (LOC), AND SILENT KNIGHT 5895 NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER SUPPLIES AS DETAILED ON DRAWINGS AND AS REQUIRED. PROVIDE COMPLETE OCCUPANT NOTIFICATION THROUGHOUT. PROVIDE MANUAL PULL STATIONS AT ALL EXITS. PROVIDE DUCT SMOKE DETECTION AND HVAC SHUT-DOWN PER NFPA 90A, NFPA 90B, AND UFC 3-600-01. MONITOR ALL FIRE PROTECTION SYSTEMS INCLUDING BUT NOT LIMITED TO AUTOMATIC SPRINKLERS.
2. THE NEW FIRE ALARM AND MASS NOTIFICATION SYSTEM SHALL BE EQUIPPED WITH AN AES INTELLINET 2.0 MESH NETWORK TRANSMITTER. THE TRANSMITTER SHALL TRANSMIT THE FOLLOWING POINTS:
    1. GENERAL FIRE ALARM ACTIVATION OF AREA SMOKE/HEAT DETECTOR
    2. GENERAL FIRE ALARM ACTIVATION OF MANUAL PULL STATION.
    3. GENERAL FIRE ALARM ACTIVATION OF SPRINKLER WATERFLOW.
    4. GENERAL FIRE ALARM ACTIVATION OF DUCT SMOKE DETECTION.
    5. GENERAL ALARM ACTIVATION OF CARBON MONOXIDE DETECTOR.
    6. GENERAL SUPERVISORY ALARM.
    7. GENERAL TROUBLE ALARM.
3. WORK SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, NFPA 72, UFC 3-600-01 WITH CHANGE 6, 06 MAY 2021, UFC 4-021-01 AS AMENDED BY US ARMY CORPS OF ENGINEERS (USACE) DESIGN GUIDE FOR VISUAL NOTIFICATION FOR MASS NOTIFICATION SYSTEM, USACE ENGINEERING AND CONSTRUCTION BULLETIN (ECB) REGARDING UFC 4-021-01 ISSUED 25-OCT-18, UFC 4-010-05, AND THE AUTHORITY HAVING JURISDICTION (AHJ). A CERTIFICATE OF FINAL INSPECTION SHALL BE PROVIDED BY THE CONTRACTOR AT THE COMPLETION OF THE WORK AND PRESENTED TO ENGINEER AND CONTRACTING OFFICER AS THE COMPLETION OF EACH BUILDING.
4. THE CONTRACT DOCUMENTS ARE BASED ON RECORD DRAWINGS AND LIMITED FIELD OBSERVATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL CONDITIONS AND MAKE NECESSARY CHANGES TO ACCOMMODATE THE INSTALLATION OF NEW WORK AT NO ADDITIONAL COST TO THE GOVERNMENT.
5. THE CONTRACTOR SHALL COMPLETE THE DESIGN AS REQUIRED TO PROVIDE A COMPLETE AND SATISFACTORILY FUNCTIONING SYSTEM AS INDICATED ON THE CONTRACT DOCUMENTS AND AS EVIDENTLY INTENDED. IT IS NOTED THAT THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK. INTERCONNECTIONS HAVE NOT BEEN SHOWN, AND THE CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND WIRING AS REQUIRED ACCOMPLISHING THE FUNCTIONS INTENDED. THE CONTRACTOR SHALL FURNISH AND INSTALL THE REQUIRED QUANTITIES AND TYPES OF CABLES, CONDUCTORS, RACEWAYS, REMOTE POWER SUPPLIES AND INTERCONNECTIONS, SHIELDING REQUIREMENTS, ETC., AS REQUIRED BY THE SYSTEM MANUFACTURER, THE SPECIFICATIONS, AND APPLICABLE CODES. ALL WIRING SHOWN ON RISER DIAGRAMS SHALL ALSO BE FURNISHED AND INSTALLED REGARDLESS OF WHETHER THESE ITEMS ARE SHOWN ON THE FLOOR PLANS.
6. DEDICATED 120 VAC SHALL BE PROVIDED FOR FIRE ALARM AND MASS NOTIFICATION SYSTEM CONTROL UNITS, INCLUDING FA/MNS CONTROL UNIT, REMOTE POWER SUPPLIES, NOTIFICATION DEVICE POWER SUPPLIES, ALARM TRANSCEIVERS, ETC. COMPLY WITH THE NATIONAL ELECTRICAL CODE, NFPA 72 AND UFC 3-520-01. ENLIST THE SERVICES OF AN ELECTRICAL SUBCONTRACTOR AS MAY BE REQUIRED TO ACCOMPLISH INSTALLATION AND TESTING.
7. DUCT SMOKE DETECTORS SHALL BE PROVIDED FOR HVAC UNITS EXCEEDING 2,000 CFM OR FOR UNITS SHARING THE SAME PLENUM HAVING A COMBINED CAPACITY EXCEEDING 2,000 CFM. DUCT SMOKE DETECTORS ARE NOT REQUIRED WHERE AIR DISTRIBUTION SYSTEMS ARE INCAPABLE OF SPREADING SMOKE BEYOND THE ENCLOSING WALLS, FLOORS AND CEILINGS OF THE ROOM OR SPACE IN WHICH THE SMOKE IS GENERATED. ADDRESSABLE FIRE ALARM MODULES SHALL BE PROVIDED TO ACCOMPLISH HVAC UNIT SHUT DOWN.
8. FIRE/SMOKE DAMPERS AND SMOKE DAMPERS SHALL BE INTERFACED WITH FIRE ALARM / MASS NOTIFICATION SYSTEMS TO CLOSE IN THE EVENT OF FIRE ALARM OR ASSOCIATED DUCT SMOKE DETECTOR ACTIVATION. DUCT SMOKE DETECTOR SHALL BE INSTALLED WITHIN 5 FT OF ALL FIRE/SMOKE AND SMOKE DAMPERS PENETRATING RATED CONSTRUCTION. CONTRACTOR TO ENLIST THE SERVICES OF MECHANICAL AND ELECTRICAL SUBCONTRACTORS AS MAY BE REQUIRED TO ACCOMPLISH INSTALLATION AND TESTING.
9. THE DETECTOR PLACEMENT DETAILED ON DRAWINGS IS BASED UPON SMOOTH CEILING CONSTRUCTION. THE ACTUAL PLACEMENT OF DETECTORS WILL BE DEPENDENT UPON THE LOCATION AND ARRANGEMENT OF STRUCTURAL COMPONENTS, ROOF/CEILING HEIGHT AND ROOF/CEILING SLOPE.
10. DOORS EQUIPPED WITH ELECTRONIC LOCKING HARDWARE (ELECTRONIC ACCESS CONTROL AND DELAYED EGRESS) SHALL BE INTERFACED WITH FIRE ALARM / MASS NOTIFICATION SYSTEMS TO RELEASE DOORS IN THE EVENT OF FIRE ALARM ACTIVATION. CONTRACTOR TO ENLIST THE SERVICES OF ELECTRONIC SECURITY AND DOOR HARDWARE SUBCONTRACTORS AS MAY BE REQUIRED TO ACCOMPLISH INSTALLATION AND TESTING.
11. THE QUANTITY AND PLACEMENT OF VISUAL NOTIFICATION DEVICES IS DEPENDENT UPON THE DEVICE'S CANDELA RATING. DEVICE PLACEMENT SHALL BE BASED UPON ALLOWABLE DEVICE COVERAGE ASSOCIATED WITH THE DEVICES CANDELA RATING PER NFPA 72.
12. SPEAKER QUANTITIES, PLACEMENT AND TAP SETTINGS SHALL BE SELECTED TO ENSURE VOICE INTELLIGIBILITY IN ACCORDANCE WITH UFC 4-021-01 AND NFPA 72. ACOUSTIC MODELING SHALL BE PROVIDED USING COMPUTER BASE SOFTWARE SUCH AS, BUT NOT LIMITED TO, MODELER BY BOSE AND EASE BY ADMG. SHOP DRAWINGS SHALL DEFINE EACH ACOUSTICALLY DEFINED SPACE (ADS), INTENDED SOUND PRESSURE LEVEL (SPL) AND INTENDED INTELLIGIBILITY VALUE STI OR CIS. REFER TO APPENDIX D OF NFPA 72 FOR INTELLIGIBILITY GUIDANCE. ACCEPTANCE TESTING SHALL INCLUDE VOICE INTELLIGIBILITY TESTING TO CONFIRM INTELLIGIBLE SYSTEM DESIGN.
13. WEATHER PROOF FIRE ALARM DEVICES SHALL BE PROVIDED AS REQUIRED, BASED UPON OCCUPANCY, ENVIRONMENTAL CONDITIONS AND AS NOTED ON DRAWINGS.
14. UNLESS OTHERWISE NOTED, ALL EQUIPMENT SHALL BE NEW, SHALL BE SUITABLE FOR THE APPLICATION INTENDED, AND SHALL BEAR LABELS OR MARKINGS INDICATING THIRD PARTY TESTING LABORATORY LISTINGS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
15. FIELD VERIFY LOCATIONS OF DEVICES IN FINISHED SPACES, WITH WHITEBOARDS, BULLETIN BOARDS, ELECTRONIC DISPLAYS, FURNITURE, CABINETS, MILLWORK, AND CASEWORK PRIOR TO ROUGH-IN.
16. FIRE ALARM AND MASS NOTIFICATION CABLES WILL BE INSTALLED IN METALLIC RACEWAYS. METALLIC RACEWAYS, CONDUIT, BACK BOXES, AND JUNCTION BOXES SHALL BE FACTORY PAINTED RED. RACEWAY AND WIRING SHALL BE CONCEALED IN FINISHED SPACES, AND MAY BE INSTALLED EXPOSED IN UNFINISHED SPACES SUCH AS MECHANICAL AND ELECTRICAL ROOMS. ALL RACEWAY AND WIRING, WHETHER CONCEALED OR EXPOSED, SHALL BE INSTALLED EITHER PERPENDICULAR OR PARALLEL TO THE BUILDING'S STRUCTURAL COMPONENTS. PROVIDE PULL AND JUNCTION BOXES AS REQUIRED TO MEET CODE AND INSTALLATION REQUIREMENTS.
17. CONDUIT WITHIN FINISHED SPACES SHALL BE PAINTED TO MATCH ADJACENT CEILING AND WALL SURFACES. CONDUIT SHALL BE IDENTIFIED BY PAINTING 3/4 IN. RED BANDS ON 20 FT. INTERVALS AND ON BOTH SIDES OF WALL, FLOOR AND CEILING PENETRATIONS. JUNCTION BOX COVERS SHALL BE IDENTIFIED ON THEIR INTERIOR AS "FIRE ALARM".
18. THE CONTRACTOR MAY EXERCISE THE OPTION TO RE-USE EXISTING CONDUIT, JUNCTION BOXES AND BACK BOXES, PROVIDED THAT THE CONDUIT IS INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND NFPA 72, IS FREE FROM CORROSION, MECHANICAL DAMAGE AND MEETS THE FIRE ALARM SYSTEM DESIGN INTENT. CONDUIT RE-USED SHALL BE PAINTED IN ACCORDANCE WITH PROJECT REQUIREMENTS. ALL RE-USED CONDUIT, JUNCTION BOXES AND BACK BOXES SHALL BE DEEMED PART OF THE SYSTEM INSTALLATION AND BE WARRANTED IN ACCORDANCE WITH THE CONTRACTS WARRANTY PROVISIONS (WARRANTED AS NEW MATERIALS).
19. CONDUCTORS SHALL BE IDENTIFIED AT EACH JUNCTION BOX, OUTLET BOX, CABINET, PULL BOX, ETC., INDICATING PANEL AND CIRCUIT NUMBER, CONTROL WIRE IDENTIFICATION NUMBER, OTHER APPROPRIATE INFORMATION. ALL PULL AND JUNCTION BOXES SHALL BE LABELED AS TO FUNCTION. ALL CONDUCTORS SHALL BE IDENTIFIED WITH PERMANENT MACHINE-PRINTED, HEAT-SHRINK IDENTIFICATION LABELS MANUFACTURED FOR THE PURPOSE OF CABLE IDENTIFICATION. HAND-WRITTEN, ENGRAVED OR "P-TOUCH STYLE LABELS ARE NOT ACCEPTABLE. IDENTIFICATION HANDWRITTEN ON CABLE JACKET IS NOT ACCEPTABLE.
20. EQUIPMENT SHALL BE SECURELY FASTENED BY MEANS OF ANCHORS, RODS, HANGERS, SUPPORTS, GUIDES, SWAY BRACES, ETC., MAINTAIN ALIGNMENT AND PREVENT EQUIPMENT MOVEMENT.
21. THROUGH-AND MEMBRANE-PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION SHALL BE SEALED WITH FIRE STOPPING MATERIALS APPROVED AND LISTED FOR THE RATING OF THE CONSTRUCTION TO BE PENETRATED. PROVIDE DOCUMENTATION ON ALL SUCH PENETRATION SEALING SYSTEMS FOR VERIFICATION OF PROPER INSTALLATION. CONTRACTOR SHOP DRAWINGS SHALL SHOW THE LOCATION OF FIRE AND SMOKE RATED CONSTRUCTION. SHOP DRAWINGS SHALL INCLUDE FIRESTOPPING DETAILS FOR EACH TYPE OF FIRESTOPPING MATERIAL USED IN THE PROJECT. ONLY QUALIFIED CONTRACTOR AND INSTALLERS SHALL INSTALL FIRESTOPPING. REFER TO 07 84 00 SPECIFICATIONS.
22. PENETRATIONS OF ROOFS, EXTERIOR WALLS, FOUNDATIONS, OR OTHER WATER OR MOISTURE PROOF CONSTRUCTION SHALL BE SEALED WITH APPROPRIATE SEALING FITTINGS OR SEALED CONSTRUCTION TO PREVENT THE INTRODUCTION OF MOISTURE INTO THE BUILDING.
23. WHERE EMPTY RACEWAYS ARE INSTALLED FOR FUTURE USE, THEY SHALL BE LABELED AT BOTH ENDS AND FITTED WITH NYLON PULL STRINGS FOR FUTURE USE.
24. WORK SHALL BE PERFORMED ON DE-ENERGIZED SYSTEMS ONLY TO PREVENT PERSONNEL INJURY AND POTENTIAL SYSTEM FAILURE. WHERE WORK ON SYSTEMS WILL REQUIRE INTERRUPTION OF ELECTRICAL SERVICE, TEMPORARY PROVISIONS FOR TEMPORARY POWER SHALL BE PROVIDED UNTIL THE WORK IS COMPLETE. ALL INTERRUPTIONS TO BUILDING UTILITIES SHALL BE APPROVED IN WRITING BY THE CONTRACTING OFFICERS REPRESENTATIVE.
25. SHOP DRAWINGS AND CALCULATIONS MUST BE PREPARED BY AN INDIVIDUAL WHO HAS OBTAINED NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES, FIRE ALARM SYSTEMS, LEVEL III CERTIFICATION, AT A MINIMUM. THE CONTRACTOR SHALL SECURE THE SERVICES OF A QFPE AND THE QFPE MUST REVIEW THE SHOP DRAWINGS, CALCULATIONS (INCLUDING BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS), AUDIBILITY AND INTELLIGIBILITY MODELING, AND MATERIAL SUBMITTALS. THE SHOP DRAWINGS SHALL BEAR THE REVIEW STAMP OF THE QFPE PRIOR TO SUBMITTING THE FIRE ALARM SYSTEM SHOP DRAWINGS TO THE DFPE (UFC 3-600-01 SECTION 9-18.2). SUBMIT SHOP DRAWINGS AND CALCULATIONS TO THE ENGINEER (DFPE) FOR REVIEW IN A MANNER AS REQUIRED PER NFPA 72 AND UFC 3-600-01. SUBMIT EQUIPMENT DATA SHEETS FOR A COMPLETE INSTALLATION OF THE FIRE ALARM SYSTEM. APPROVED SHOP DRAWINGS, DATA SHEETS, AND CALCULATIONS SHALL BE REQUIRED PRIOR TO COMMENCEMENT OF WORK.
26. PROVIDE SURGE PROTECTIVE DEVICES (SPDS) TO PROTECT ALL POWER SUPPLY CIRCUITS TO THE FA/MNS CONTROL UNIT, RTU, TRANSCEIVERS, INCLUDING SUBPANELS (E.G. NOTIFICATION APPLIANCE CIRCUIT (NAC) BOOSTER PANELS). SPDS SHALL BE INSTALLED IN ACCORDANCE WITH UFC 3-520-01. ALL SPDS SHALL BE UL 1283 AND UL 1449 LISTED IN ACCORDANCE WITH UFC 3-600-01.
27. PROVIDE SURGE PROTECTIVE DEVICES (SPDS) FOR ALL FIRE ALARM DATA, SLC AND NOTIFICATION CIRCUITS THAT LEAVE THE BUILDING'S PROTECTIVE ENVELOPE. PROVIDE SURGE PROTECTIVE DEVICES FOR ALL FIRE ALARM NOTIFICATION DEVICES INSTALLED ON THE BUILDING'S EXTERIOR WALL, UNLESS THE BUILDING IS PROTECTED WITH AN APPROVED LIGHTNING PROTECTION SYSTEM. ALL SPDS SHALL BE UL 1283 AND UL 1449 LISTED IN ACCORDANCE WITH UFC 3-600-01.
28. PROVIDE A LOCK-ON BREAKER IN THE BRANCH PANELBOARD THAT SERVES AS PRIMARY POWER FOR THE FIRE PROTECTION SYSTEMS. WHERE MORE THAN ONE DEDICATED 120 VAC POWER CIRCUIT IS REQUIRED FOR FIRE PROTECTION SYSTEMS, A DEDICATED PANEL BOARD SIZED FOR A MINIMUM OF SIX (6) CIRCUITS DEDICATED TO FIRE PROTECTION AND LIFE SAFETY SYSTEMS POWERED FROM A LOCK-ON BREAKER IN THE UPSTREAM DISTRIBUTION EQUIPMENT SHALL BE PROVIDED.
29. LOCK-ON BREAKERS SHALL BE FACTORY OR FIELD PAINTED RED. ADDITIONALLY, PROVIDE A MECHANICALLY FASTENED RED LAMINATED PLASTIC LABEL WITH WHITE CENTER CORE WITH THE FOLLOWING INSCRIPTION: "FIRE PROTECTION/LIFE SAFETY EQUIPMENT" FOR EACH LOCK-ON BREAKER.
30. FOR FACILITIES THAT ARE PROVIDED WITH STANDBY EMERGENCY POWER SYSTEMS, FIRE PROTECTION SYSTEMS SHALL BE POWERED BY THE EMERGENCY POWER SYSTEM.
31. MULTIPLE PIECES OF FIRE ALARM AND MASS NOTIFICATION CONTROL EQUIPMENT, POWER SUPPLIES, ETC. MAY SHARE A DEDICATED POWER CIRCUIT, PROVIDED THAT THE COMBINED CURRENT LOAD DOES NOT EXCEED 80% OF THE CIRCUITS RATING. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THE CIRCUIT LOADING DOES NOT EXCEED 80%.
32. ORIGINAL FIRE ALARM CONTROL UNIT ENCLOSURES SHALL BE REMOVED AND SHALL NOT SERVE AS FIRE ALARM TERMINAL CABINETS OR JUNCTION BOXES FOR THE NEW WORK UNDER ANY CIRCUMSTANCES. WHERE THE RE-USE OF EXISTING CONDUIT PREVIOUSLY ENTERING THE ORIGINAL FIRE ALARM CONTROL UNIT OR FIRE ALARM ENCLOSURE IS REQUIRED, SUCH AS WHERE CONDUIT ENTERS FROM BELOW GRADE, CONCEALED SPACE, ETC. NEW TERMINAL CABINETS, CABLE TROUGHS, OR NEMA ENCLOSURES RATED FOR THE ENVIRONMENT PRESENT SHALL BE PROVIDED.
33. ALL CABLES TERMINATED WITHIN CONTROL EQUIPMENT, REMOTE PANELS, POWER SUPPLIES, TERMINAL CABINETS, ADDRESSABLE INTERFACE MODULE ENCLOSURES, ETC. SHALL BE NEATLY TERMINATED USING SCREWED TERMINALS STRIPS OR SCREWED JUNCTION BLOCKS. NO WIRE NUTS, CRIMP-ON, LATCHING, PUSH-ON OR SOLDERED CONNECTORS SHALL BE ALLOWED.
34. HIGH VOLTAGE (120VAC), NON-POWER LIMITED AND POWER LIMITED CABLE INSTALLED WITHIN EQUIPMENT ENCLOSURES SHALL BE SEPARATED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
35. INDIVIDUAL EXISTING SUSPENDED ACOUSTICAL CEILING TILES WILL BE REMOVED AS REQUIRED TO COMPLETE THE DEMOLITION AND INSTALLATION OF THE FIRE ALARM / MASS NOTIFICATION SYSTEM. NEW REPLACEMENT TILES WILL MATCH EXISTING TILES. WHERE THE EXISTING CEILING TILES HAVE BEEN DISCONTINUED, THE CONTRACTOR WILL IDENTIFY A DONOR ROOM FROM WHICH TILES WILL BE REMOVED AND USED IN OTHER BUILDING AREAS TO MATCH EXISTING TILES. ALL TILES WITHIN THE DONOR ROOM WILL BE REPLACED WITH NEW TILES, CURRENTLY IN PRODUCTION HAVING SIMILAR SALIENT FEATURES AND CLOSELY MATCHING THE ORIGINAL TILES. CARE SHOULD BE TAKEN NOT TO ADVERSELY DISTURB THERMAL OR ACOUSTIC INSULATION SUPPORTED BY CEILING TILES.
36. ANY ACCESS OPENINGS CUT INTO CEILINGS AND WALLS TO ACCOMMODATE THE FA/MNS INSTALLATION WILL BE REPAIRED IN A MANNER THAT MAINTAINS THE FIRE-RESISTANCE AND SMOKE RATINGS.

GENERAL FIRE ALARM DEMOLITION NOTES

1. THE EXISTING CONDITIONS AND DEMOLITION PLANS WERE DEVELOPED BASED ON RECORD DRAWINGS AND FIELD VERIFICATION WHERE POSSIBLE. CONTRACTOR SHALL ALLOW FOR VARIANCES IN DEVICES DEPICTED ON DEMOLITION DRAWINGS AND UNFORESEEN CONDITIONS.THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER OR CONTRACTING OFFICER'S REPRESENTATIVE (COR) OF DISCREPANCIES AND UNDOCUMENTED CONDITIONS PRIOR TO INITIATING WORK.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO: STRUCTURES, CEILINGS, WALLS, FLOORS, FURNITURE, EQUIPMENT, UTILITIES, ETC. DAMAGE TO EXISTING CONDITIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE GOVERNMENT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND PAINTING FLOORS, CEILINGS, AND WALLS TO MATCH EXISTING CONDITIONS IN ALL AREAS IMPACTED BY THE DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM AND INSTALLATION OF THE NEW FIRE ALARM AND MASS NOTIFICATION SYSTEM.
6. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE A WORK SCHEDULE TO THE GOVERNMENT AND HAVE WRITTEN APPROVAL FROM THE COR, BEFORE COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING AROUND OCCUPANT SCHEDULE AS DETERMINED BY THE GOVERNMENT AND MAINTAIN MINIMUM IMPACT DUE TO CONSTRUCTION.
7. FIRE SUPPRESSION SUPERVISORY DEVICES INCLUDING TAMPER SWITCHES, PRESSURE SWITCHES, FLOW SWITCHES, ETC. ARE TO REMAIN, UNLESS OTHERWISE NOTED. THESE SYSTEMS AND DEVICES WILL BE TIED TO THE NEW FIRE ALARM SYSTEMS IN EACH BUILDING.
8. ALL FIRE ALARM CONDUIT NOT INCORPORATED WITHIN NEW FIRE ALARM AND MASS NOTIFICATION SYSTEM SHALL BE REMOVED IN THEIR ENTIRETY, WITH THE EXCEPTION OF CONDUIT CONCEALED WITHIN MASONRY WALLS, FINISHED GYPSUM BOARD WALLS, FINISHED GYPSUM BOARD CEILING WITHOUT ACCESS AS WELL AS THOSE CONCEALED BEHIND STRUCTURAL COMPONENTS. ALL ABANDONED CONDUIT SHALL BE LABELED AND ITS OUTLET LOCATION IDENTIFIED. ALL WIRING/CABLE SHALL BE REMOVED FROM ANY CONDUIT ALLOWED TO REMAIN IN PLACE.
9. IONIZATION PRINCIPLE SMOKE DETECTORS CONTAIN THE RADIOACTIVE ISOTOPE AMERICIUM 241. SEPARATE IONIZATION PRINCIPLE SMOKE DETECTORS FROM OTHER ELECTRONIC WASTE AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
10. ALL ABANDONED THROUGH- AND MEMBRANE-PENETRATIONS RESULTING FROM THE EXISTING FIRE ALARM SYSTEM DEMOLITION WILL BE CLOSED AND OR SEALED TO RESTORE FIRE-RESISTANCE AND SMOKE RATINGS.
11. INDIVIDUAL EXISTING SUSPENDED ACOUSTICAL CEILING TILES WILL BE REMOVED AS REQUIRED TO COMPLETE THE DEMOLITION AND INSTALLATION OF THE FIRE ALARM / MASS NOTIFICATION SYSTEM. NEW REPLACEMENT TILES WILL MATCH EXISTING TILES. WHERE THE EXISTING CEILING TILES HAVE BEEN DISCONTINUED, THE CONTRACTOR WILL IDENTIFY A DONOR ROOM FROM WHICH TILES WILL BE REMOVED AND USED IN OTHER BUILDING AREAS TO MATCH EXISTING TILES. ALL TILES WITHIN THE DONOR ROOM WILL BE REPLACED WITH NEW TILES, CURRENTLY IN PRODUCTION HAVING SIMILAR SALIENT FEATURES AND CLOSELY MATCHING THE ORIGINAL TILES. CARE SHOULD BE TAKEN NOT TO ADVERSELY DISTURB THERMAL OR ACOUSTIC INSULATION SUPPORTED BY CEILING TILES.

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER

12/19/2025

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: D. DERR
ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
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U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR
HDR Engineering, Inc.
412 E. PARKCENTER BLVD.
BOISE ID
(208) 387-7000

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

GENERAL FIRE ALARM AND DEMOLITION NOTES

SHEET ID
B2606
FA001

100% DESIGN SUBMITTAL

FIRE ALARM AND MASS NOTIFICATION SYMBOLS LEGEND

- CONTROL EQUIPMENT -	
FMCU	FIRE ALARM AND MASS NOTIFICATION CONTROL UNIT
FAMLOC	FIRE ALARM ANNUNCIATOR AND LOCAL OPERATORS CONSOLE
NAC	NAC EXTENDER BOOSTER POWER SUPPLY
AES	AES INTELLINET 2.0 MESH NETWORK ALARM TRANSMITTER
- MANUAL STATIONS -	
F	MANUAL STATION, FIRE ALARM
- DETECTION -	
	GAS DETECTOR, SUBSCRIPT DEFINES TYPE
S	SMOKE DETECTOR, SPECIFY TYPE
	HEAT DETECTOR, SPECIFY TYPE
S BR	SMOKE DETECTOR, BEAM TYPE - RECEIVER
S BT	SMOKE DETECTOR, BEAM TYPE - TRANSMITTER
S	DUCT MOUNTED SMOKE DETECTOR
- ADDRESSABLE MODULES -	
AIM	ADDRESSABLE INPUT MODULE
AIM 2	ADDRESSABLE DUAL INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
- NOTIFICATION APPLIANCES -	
	SPEAKER/STROBE COMBO, WALL MOUNT, CLEAR LENS
C	SPEAKER/STROBE COMBO, CEILING MOUNT, CLEAR LENS
S W	SPEAKER ONLY, WALL MOUNT
S C	SPEAKER ONLY, CEILING MOUNT
WP S	SPEAKER ONLY, EXTERIOR WEATHERPROOF, TAPPED AT 2 WATTS
V F	FIRE ALARM BELL, VIBRATING TYPE
	STROBE ONLY, WALL MOUNT
	STROBE ONLY, CEILING MOUNT
F	SPRINKLER WATERFLOW BELL
- PERIPHERAL DEVICES -	
	EXTERIOR MOUNTED ANTENNA FOR RF TRANSMISSION
K	KNOX BOX
DH	DOOR HOLDER
EOL	END OF LINE SUPERVISION DEVICE
WF	FLOW SWITCH
RL	NON-ADDRESSABLE OUTPUT RELAY
PS	PRESSURE SWITCH
RTS	REMOTE ALARM INDICATING AND TEST SWITCH
SS	SURGE SUPPRESSOR
VS	VALVE SUPERVISORY SWITCH
	120/280 VAC ELECTRICAL DISTRIBUTION PANEL- SOURCE OF DEDICATED 120 VAC
- WALL RATINGS -	
S S S	SMOKE-RATED PARTITION
	1-HOUR FIRE-RATED BARRIER
	2-HOUR FIRE-RATED BARRIER

-FIRE ALARM DEMOLITION SYMBOLS LEGEND-	
- CONTROL EQUIPMENT -	
FACU	FIRE ALARM CONTROL UNIT
ANN	FIRE ALARM ANNUNCIATOR PANEL
XCVR	RF ALARM TRANSCEIVER
-MANUAL STATIONS-	
F	MANUAL STATION, FIRE ALARM
-DETECTION-	
DET	DETECTOR TO BE REMOVED
S	DUCT MOUNTED SMOKE DETECTOR, SPECIFY TYPE
- ADDRESSABLE MODULES -	
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
-FIRE ALARM NOTIFICATION APPLIANCES-	
	NOTIFICATION APPLIANCE TO BE REMOVED
F	SPRINKLER WATERFLOW BELL
- PERIPHERAL DEVICES -	
RTS	REMOTE ALARM INDICATING AND TEST SWITCH
WF	FLOW SWITCH
VS	VALVE SUPERVISORY SWITCH
PS	PRESSURE SWITCH
DH	DOOR HOLDER
	120/208 VAC ELECTRICAL DISTRIBUTION PANEL- SOURCE OF DEDICATED 120 VAC
	RF TRANSCEIVER ANTENNA, MOUNTING HARDWARE AND ASSOCIATED CONDUIT

- DEVICE SUBSCRIPTS & ABBREVIATIONS -

AHU	AIR HANDLING UNIT
AUX	AUXILIARY POWER
C	CEILING MOUNT
CO	CARBON MONOXIDE
DOD	DEPARTMENT OF DEFENSE
FA	FIRE ALARM
FA/MNS	FIRE ALARM AND MASS NOTIFICATION SYSTEM
HPS	HIGH POWER SPEAKER
MNS	MASS NOTIFICATION SYSTEM
R	RETURN AIR DUCT
RTS	REMOTE TEST STATION
RTU	ROOF TOP UNIT
S	SUPPLY AIR DUCT
SLA	SEALED LINE CIRCUIT (BATTERY)
SLC	SIGNALING LINE CIRCUIT
SF	SUBFLOOR
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
nW	WATTAGE SETTING (n=SPEAKER TAP)
WP	WEATHERPROOF
XP	EXPLOSION PROOF

NOTE: NOT ALL SUBSCRIPTS AND ABBREVIATIONS MAY BE USED.

CODE ANALYSIS

APPLICABLE CODES AND STANDARDS

INTENATIONAL CODE CONFERENCE
INTERNATIONAL BUILDING CODE (IBC) (2024), AS AMENDED BY UFC 1-200-01
INTERNATIONAL EXISTING BUILDING CODE (IEBC) (2024), AMENDED BY UFC 1-200-01
INTERNATIONAL MECHANICAL CODE (IMC) (2024)

UNIFIED FACILITY CRITERIA

UFC 1-200-01	DOD BUILDING CODE, CHANGE 4, (2024)
UFC 3-520-01	INTERIOR ELECTRICAL SYSTEMS (2025)
UFC 3-600-01	FIRE PROTECTION ENGINEERING FOR FACILITIES, CHANGE 6, (2021)
UFC 3-601-02	OPERATION AND MAINTENANCE: INSPECTION, TESTING AND MAINTENANCE OF FIRE PROTECTION SYSTEMS, CHANGE 1 (2025)
UFC 4-010-01	DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS, CHANGE 3 (2024)
UFC 4-010-06	CYBERSECURITY OF FACILITY RELATED CONTROL SYSTEMS (2023)
UFC 4-021-01	DESIGN AND O&M: MASS NOTIFICATION SYSTEMS, CHANGE 1 (2010)

NATIONAL FIRE PROTECTION ASSOCIATION

NFPA 1	FIRE CODE (2024)
NFPA 70	NATIONAL ELECTRIC CODE (2023)
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (2025)
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES (2025)
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS (2024)
NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS (2024)
NFPA 101	LIFE SAFETY CODE (2024)
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS (2024)
NFPA 220	STANDARD ON TYPES OF BUILDING CONSTRUCTION (2024)
NFPA 241	STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS (2022)

OTHER APPLICABLE STANDARDS
ARCHITECTURAL BARRIERS ACT (ABA)
MHAFB INSTALLATION FACILITY STANDARDS (IFS)

PROJECT DEFINITION

ALTERATION LEVEL III — IEBC §604.1
THIS PROJECT IS DEFINED AS AN ALTERATION LEVEL I IN ACCORDANCE WITH IEBC. AN ALTERATION LEVEL I INCLUDES THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE (IEBC §602.1). HOWEVER, IEBC ALSO DEFINES AN ALTERATION LEVEL I EXCEEDING 50 PERCENT OF THE BUILDING AREA AS AN ALTERATION LEVEL III (IEBC §604.1).

RENOVATION — UFC 3-600-01 §2-1.20
ADDITIONALLY, THIS PROJECT IS DEFINED AS A RENOVATION IN ACCORDANCE WITH NFPA 101. RENOVATIONS INCLUDE THE REPLACEMENT IN KIND, STRENGTHENING, OR UPGRADING BUILDING ELEMENTS, MATERIALS, EQUIPMENT, OR FIXTURES THAT DO NOT RESULT IN A RECONFIGURATION OF THE BUILDING SPACES WITHIN (NFPA 101 §43.2.2.1.2).

MAJOR PROJECT — UFC 3-600-01 §2-1.20
THIS PROJECT IS ALSO DEFINED AS A MAJOR PROJECT. UFC 3-600-01 §1-7.1.1 REQUIRES THAT A CODE ANALYSIS BE PERFORMED FOR ALL MAJOR PROJECTS. THIS CODE ANALYSIS APPLIES ONLY TO THE PROJECT'S SCOPE (I.E., INSTALLATION OF A NEW FA/MNS). ACCORDINGLY, THIS CODE ANALYSIS IS LIMITED TO DEFINING THE CODE PATH REQUIRED TO ACHIEVE A COMPLIANT FA/MNS.

OCCUPANCY CLASSIFICATION

GROUP A-3 ASSEMBLY — IBC §303.4
GROUP B BUSINESS — IBC §304.1

ASSEMBLY OCCUPANCY — NFPA 101 §3.3.196.2
BUSINESS OCCUPANCY — NFPA 101 §3.3.196.3

MIXED-USE / NON-SEPARATED — IBC §508.3

ALLOWABLE HEIGHT AND AREA

BASED UPON TYPE VB CONSTRUCTION WITHOUT AUTOMATIC SPRINKLER PROTECTION THE FOLLOWING HEIGHT AND AREA LIMITATIONS OCCUR.

ALLOWABLE AREA	6,000 SF			IBC TABLE 506.2
ALLOWABLE AREA WITH FRONTAGE INCREASE	10,500 SF	ACTUAL AREA	14,395 SF *	IBC §506.3
ALLOWABLE HEIGHT	40 FT	ACTUAL HEIGHT	APROX 35 FT	IBC TABLE 504.3
ALLOWABLE FLOORS	1 STORY	ACTUAL FLOORS	1 STORY WITH MEZZANINE	IBC TABLE 504.4

* THIS CONSITUTES A PRE-EXISTING / NON-CONFORMING CONDITION. THIS PROJECT WILL NOT CORRECT THIS PRE-EXISTING/ NON-CONFORMING CONDITION. THIS PROJECT WILL NOT MAKE THIS BUILDING ANY LESS CONFORMING THAN PRIOR TO CONSTRUCTION.

THIS PROJECT WILL NOT IMPACT BUILDING HEIGHT AND AREA.

TYPES OF CONSTRUCTION

TYPE VB (IBC TABLE 601) 000 (NFPA 220 TABLE 4.1.1)

THIS PROJECT WILL NOT IMPACT BUILDING CONSTRUCTION TYPE.

FIRE AND SMOKE PROTECTION FEATURES

THE FELLOWSHIP HALL IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY 1-HR FIRE-RATED BARRIER.

THE KITCHEN AND ADJACENT MECHNICAL ROOM ARE SEPARATED FROM THE REMAINDER OF THE BUILDING BY 2-HR FIRE-RATED BARRIER.

STORAGE ROOM ADJACENT TO THE KITCHEN IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY A SMOKE PARTITION.

THE INTEGRITY OF FIRE-RATED BARRIERS AND SMOKE PARTIONS SHALL BE MAINTAINED

INTERIOR FINISHES

FOR EXISTING ASSEMBLY OCCUPANCIES (>300 PERSONS) THE FOLLOWING WALL AND CEILING FINISHES ARE ALLOWED. — NFPA 101 §13.3.3

EXIT ENCLOSURE WALL AND CEILING FINISHES	CLASS A
LOBBY AND CORRIDOR WALL AND CEILING FINISHES	CLASS A OR CLASS B
OTHER SPACES WALL AND CEILING FINISHES	CLASS A OR CLASS B

FOR EXISTING ASSEMBLY OCCUPANCIES (>300 PERSONS) THE FOLLOWING FLOOR FINISHES ARE ALLOWED. — NFPA 101 §13.3.3.3

STAIRS AND EXIT ACCESS CORRIDOR FLOOR FINISHES	CLASS I OR CLASS II
OTHER SPACES FLOOR FINISHES	NO RESTRICTIONS

WALL, CEILING AND FLOOR FINISH RATINGS SHALL BE MAINTAINED.

FIRE PROTECTION AND LIFE SAFETY SYSTEMS

SINCE THIS PROJECT IS A FIRE ALARM REPLACEMENT PROJECT, THE NEW FIRE ALARM SYSTEM SHALL COMPLY WITH THE FIRE ALARM REQUIRMENTS FOR NEW ASSEMBLY OCCUPANCIES (NFPA 101, CHAPTER 12).

A MANUAL FIRE ALARM SYSTEM IS REQUIRED FOR ALL NEW ASSEMBLY OCCUPANCIES. — NFPA 101 §12.3.4.2

PROVIDE SMOKE DETECTION IN ACCORDANCE WITH NFPA 101. NFPA 101 DOES NOT REQUIRE AREA DETECTION FOR THE BUILDING. ADDITIONALLY UFC 3-600-01 DISCOURAGES THE INSTALLATION OF DETECTION NOT REQUIRED BY CODE. HOWEVER, PER MHAFB REQUEST AREA HEAT AND SMOKE DETECTION WILL BE PROVIDED FOR UNSPRINKLERED PORTIONS OF THE BUILDING. THIS IS CONSIDERED A VOLUNTARY ADDITION. — UFC 3-600-01 §9-18.5.1.1

SMOKE DETECTION WILL ONLY BE PROVIDED OVER CONTROL EQUIPMENT AND AT FIRE DOORS AND FIRE SHUTTERS. — NFPA 72 §17.7.5.6

DUCT SMOKE DETECTORS WILL BE INSTALLED ON AIR HANGLING EQUIPMENT EXCEEDING 2,000 CFM AND CAPABLE OF SPREADING SMOKE. — NFPA 72 §17.7.5.5

OCCUPANT NOTIFICATION SHALL BE PROVIDED IN ACCORDANCE WITH PUBLIC MODE REQUIRMENTS. — NFPA 72 §18.5

AUDIBLE APPLIANCES WILL SOUND WITH A SPL OF AT LEAST 15 DECIBELS (DB) ABOVE THE AMBIENT SOUND LEVEL OR 5 DB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, WHEN MEASURED 5 FEET ABOVE THE FLOOR. — NFPA 72 §18.4.4.1

MASS NOTIFICATION SYSTEM SHALL BE PROVIDED DUE TO THE FACT THAT MORE THAN 10 FULL-TIME DOD PERSONNEL ARE PRESENT — UFC 4-010-01 §2-3.5

AUDIBILITY AND VOICE INTELIGIBILITY SHALL BE PROVIDED THROUGHOUT. — UFC 4-021-01

AUTOMATIC SPRINKLER PROTECTION IS REQUIRED FOR ALL BUILDINGS HAVING TYPE III, IV AND V CONSTRUCTION, WHERE THE BUILDING AREA EXCEEDS 5,000 SF. AUTOMATIC SPRINKLER PROTECTION IS PROVIDE ONLY WITHIN THE KITCHEN AND ADJACENT MECHANICAL ROOM." — UFC 3-600-01 §9-7.2.1.3

* THIS CONSITUTES A PRE-EXISTING / NON-CONFORMING CONDITION. THIS PROJECT WILL NOT CORRECT THIS PRE-EXISTING/ NON-CONFORMING CONDITION. THIS PROJECT WILL NOT MAKE THIS BUILDING ANY LESS CONFORMING THAN PRIOR TO CONSTRUCTION.

OTHER THAN INTERFACING WITH THE EXISTING SPRINKLER SYSTEM WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, THIS PROJECT WILL NOT IMPACT THE EXISTING SPRINKLER SYSTEM.

MEANS OF EGRESS

THIS PROJECT WILL NOT IMPACT MEANS OF EGRESS.

EXISTING MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION.

STATE OF TEXAS — ROBERT D. RICHTER — 125123 — LICENSED PROFESSIONAL ENGINEER

12/19/2025

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: D. DERR
SIZE: ANSI D
ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO.: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 10430451
SHEET NUMBER: 4 OF 14

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR Engineering, Inc.
412 E. PARKCENTER BLVD.
BOISE ID
(208) 387-7000

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

SYMBOLS LEGEND AND CODE ANALYSIS

SHEET ID
B2606
FA002

100% DESIGN SUBMITTAL

PLAN NORTH

0 4' 8' 16'

A1 LEVEL ONE DEMOLITION PLAN - FIRE ALARM

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

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED PROFESSIONAL ENGINEER
12/19/2025

SHEET NOTES

1. REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PATCH AND PAINT WALL AND CEILING OPENINGS NOT SLATED FOR RE-USE TO MATCH SURROUNDING SURFACES.
2. THIS BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. PERFORM WORK IN SUCH A MANNER AS TO LIMIT INTERRUPTION TO BUILDING OCCUPANTS.
3. WORSHIP SPACES INCLUDING THE SANCTUARY, CHOIR LOFT, CRY ROOM, NARTHEX, LOBBY AND SACRISTY SHALL BE USED EACH SUNDAY. TOOLS, SCAFFOLDS, LADDERS, LIFTS, CONSTRUCTION DEBRIS, PROTECTIVE COVERINGS, MATERIALS, ETC. SHALL BE REMOVED FROM THESE AREAS NO LATER THAN FRIDAY NOON AND THOROUGHLY CLEANED (VACUUM, WIPED DOWN, ETC.). UNLESS OTHERWISE PERMITTED, PATCHING AND PAINTING ACTIVITIES WITHIN THESE SPACES SHALL BE COMPLETED NO LATER THAN THE PRIOR WEDNESDAY TO ALLOW ODORS ASSOCIATED WITH THESE ACTIVITIES TO DISSIPATE.
4. WORK PERFORMED WITHIN THE DAY CHAPEL, KITCHEN AND MULTIPURPOSE ROOM SHALL BE SCHEDULED IN ADVANCE WITH STAFF TO ENSURE THAT WORK ACTIVITIES DO NOT INTERFERE WITH SCHEDULED EVENTS.
5. UNLESS OTHERWISE NOTED, CEILINGS HEIGHTS ARE LESS THAN 10FT.
6. UNLESS OTHERWISE NOTED, CEILINGS FEATURE ACOUSTICAL CEILING TILES SUPPORTED BY METAL GRIDDED FRAMES. REFER ALSO TO CEILING LEGEND.
7. THROUGH AND MEMBRANE PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION SHALL BE PERFORMED IN A MANNER THAT MAINTAINS THE EXISTING RATINGS. LISTED FIRESTOPPING SYSTEMS AND MATERIALS SHALL BE PROVIDED AS REQUIRED. REFERENCE DIVISION 07 84 00.

SHEET KEY NOTES

1. DEMO EXISTING SILENT KNIGHT 5820XL FACU, MONACO ENTERPRISES TRANSCEIVER, OLD FIRELITE SENSISCAN 1000 ENCLOSURE CURRENTLY USED TO HOUSE ADDRESSABLE MODULES, CONDUIT AND WIRE IN ITS ENTIRETY. THE NEW FMCU WILL NOT BE REINSTALLED AT THIS LOCATION.
2. DEMO EXISTING DEDICATED 120 VAC TO THE FACU. THE NEW FMCU WILL NOT BE REINSTALLED AT THIS LOCATION.
3. DEMO EXISTING SILENT KNIGHT 5208, SILENT KNIGHT 5496 POWER SUPPLY, CONDUIT AND WIRE IN ITS ENTIRETY. THE NEW FMCU WILL BE INSTALLED AT THIS LOCATION.
4. THE EXISTING FACU IS CURRENTLY POWERED BY PANEL D, CIRCUIT 21. DEMO EXISTING DEDICATED 120 VAC TO THE FACU. DEDICATED POWER WILL BE INSTALLED IN ACCORDANCE WITH UFC 3-520-01 §3-2.7 INTERIOR ELECTRICAL SYSTEMS.
5. DEMO EXISTING ADDRESSABLE INTERFACE MODULES FROM EXISTING VALVE TAMPER SWITCHES AND WATER FLOW DETECTION DEVICES. CONFIGURE FLEXIBLE CONDUIT AND BACK-BOXES FOR RE-USE WITH NEW FMCU.
6. REMOVE EXISTING FIRE ALARM INTERFACE FROM EXISTING ELECTROMAGNETIC DOOR HOLDERS. DOOR HOLDERS WILL REMAIN. CONFIGURE FOR RE-USE WITH NEW FMCU.
7. DEMO EXISTING DEVICE, BACK-BOX, CONDUIT AND WIRE. REPLACE EXISTING CEILING TILE WITH NEW CEILING TILE. ALTERNATELY, THE EXISTING BACK-BOX MAY BE REUSED FOR THE NEW DEVICE, PROVIDED THAT THE BACK-BOX DIMENSIONS ARE COMPATIBLE WITH NEW DEVICE. EXISTING CONDUIT SERVING THE EXISTING BACK-BOX MAY BE REUSED IF THE CONDUIT IS NO LESS THAN 3/4 IN, IS INSTALLAED IN ACCORDANCE WITH THE NEC AND IS WARRANTED AS NEW. (TYPICAL)
8. DEMO EXISTING MANUAL PULL STATION, WIREMOLD, BACKBOX AND WIRE. PATCH AND PAINT MOUNTING HOLES AND TEXTURE TO MATCH SURROUNDING SURFACES.
9. EXISTING DOOR HOLDER LACKS APPROPRIATE BLOCKING AND HAS PULLED PARTIALLY FROM WALL. RESECURE DOOR HOLDER TO WITHSTAND PULLING FORCE OF 25LBS.

WALL RATINGS

S S S	SMOKE-RATED PARTITION
	1-HOUR FIRE-RATED BARRIER
	2-HOUR FIRE-RATED BARRIER

CEILING LEGEND

A	GYPSUM BOARD
B	OPEN TO DECK ABOVE
C	OPEN TO WOOD JOISTS
D	OPEN TO ROOF RAFTERS ABOVE

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: DERR
SIZE: ANSI D

ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 0430451
SHEET NUMBER: 5 OF 14

U.S. AIR FORCE
366 CESCEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

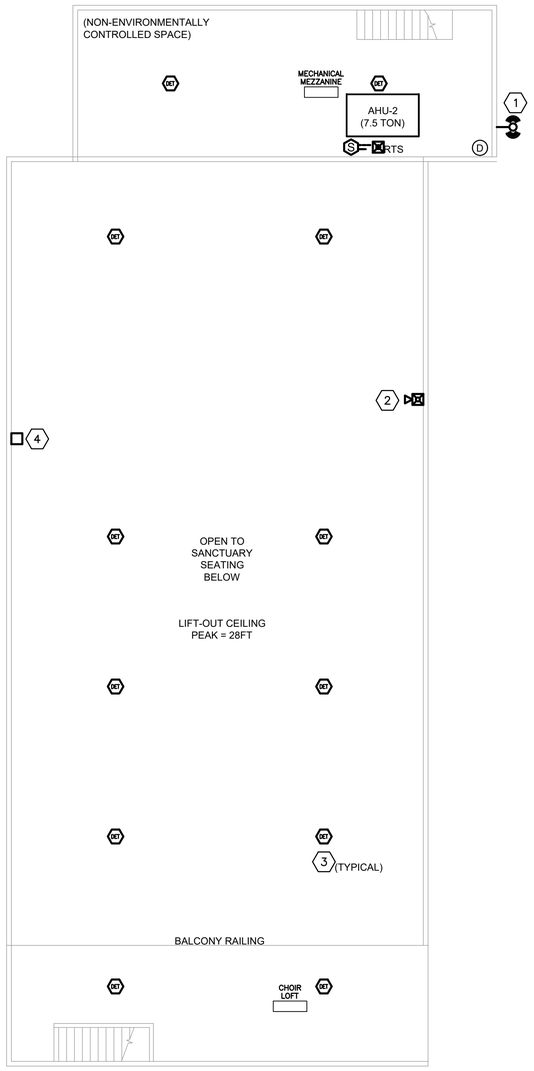
HDR Engineering, Inc.
412 E. PARKCENTER BLVD.
BOISE, ID
(208) 387-7000

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

LEVEL ONE DEMOLITION PLAN - FIRE ALARM

SHEET ID
B2606
FD101

100% DESIGN SUBMITTAL



SHEET NOTES

1. REMOVE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PATCH AND PAINT WALL AND CEILING OPENINGS NOT SLATED FOR RE-USE TO MATCH SURROUNDING SURFACES.
2. THIS BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. PERFORM WORK IN SUCH A MANNER AS TO LIMIT INTERRUPTION TO BUILDING OCCUPANTS.
3. WORSHIP SPACES INCLUDING THE SANCTUARY, CHOIR LOFT, CRY ROOM, NARTHEX, LOBBY AND SACRISTY SHALL BE USED EACH SUNDAY. TOOLS, SCAFFOLDS, LADDERS, LIFTS, CONSTRUCTION DEBRIS, PROTECTIVE COVERINGS, MATERIALS, ETC. SHALL BE REMOVED FROM THESE AREAS NO LATER THAN FRIDAY NOON AND THOROUGHLY CLEANED (VACUUM, WIPED DOWN, ETC.). UNLESS OTHERWISE PERMITTED, PATCHING AND PAINTING ACTIVITIES WITHIN THESE SPACES SHALL BE COMPLETED NO LATER THAN THE PRIOR WEDNESDAY TO ALLOW ODORS ASSOCIATED WITH THESE ACTIVITIES TO DISSIPATE.
4. WORK PERFORMED WITHIN THE DAY CHAPEL, KITCHEN AND MULTIPURPOSE ROOM SHALL BE SCHEDULED IN ADVANCE WITH STAFF TO ENSURE THAT WORK ACTIVITIES DO NOT INTERFERE WITH SCHEDULED EVENTS.
5. UNLESS OTHERWISE NOTED, CEILINGS HEIGHTS ARE LESS THAN 10FT.
6. UNLESS OTHERWISE NOTED, CEILINGS FEATURE ACOUSTICAL CEILING TILES SUPPORTED BY METAL GRIDDED FRAMES. REFER ALSO TO CEILING LEGEND.
7. THROUGH AND MEMBRANE PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION SHALL BE PERFORMED IN A MANNER THAT MAINTAINS THE EXISTING RATINGS. LISTED FIRESTOPPING SYSTEMS AND MATERIALS SHALL BE PROVIDED AS REQUIRED. REFERENCE DIVISION 07 84 00.

SHEET KEY NOTES

1. DEMO EXISTING MONACO TRANSCEIVER ANTENNA, CONDUIT, SURGE SUPPRESSOR, COAXIAL CABLE AND MOUNTING HARDWARE.
2. DEMO EXISTING HORN/STROBE, BACKBOX, CONDUIT AND WIRE. PATCH AND PAINT BOX OPENING AND MOUNTING HOLES TO MATCH SURROUNDING SURFACES.
3. DEMO EXISTING HEAT DETECTOR, BACKBOX AND WIRE. ALTERNATELY, THE EXISTING BACK-BOX MAY BE REUSED FOR THE NEW DEVICE, PROVIDED THAT THE BACK-BOX DIMENSIONS ARE COMPATIBLE WITH NEW DEVICE. EXISTING CONDUIT SERVING THE EXISTING BACK-BOX MAY BE REUSED IF THE CONDUIT IS NO LESS THAN 3/4 IN, IS INSTALLAED IN ACCORDANCE WITH THE NEC AND IS WARRANTED AS NEW.
4. DEMO EXISTING WIREMOLD SERVICING MANUAL PULL STATION. PATCH AND PAINT MOUNTING HOLES AND TEXTURE TO MATCH SURROUNDING SURFACES.

CEILING LEGEND

A	GYPSUM BOARD
B	OPEN TO DECK ABOVE
C	OPEN TO WOOD JOISTS
D	OPEN TO ROOF RAFTERS ABOVE

PLAN NORTH

0 4' 8' 16'

A1 MEZZANINE LEVEL DEMOLITION PLAN - FIRE ALARM
SCALE: 1/8" = 1'-0"

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER
12/19/2025

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 10430451
SHEET NUMBER: 6 OF 14
SIZE: ANSI D

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: D. DERR

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOWE AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR Engineering, Inc.
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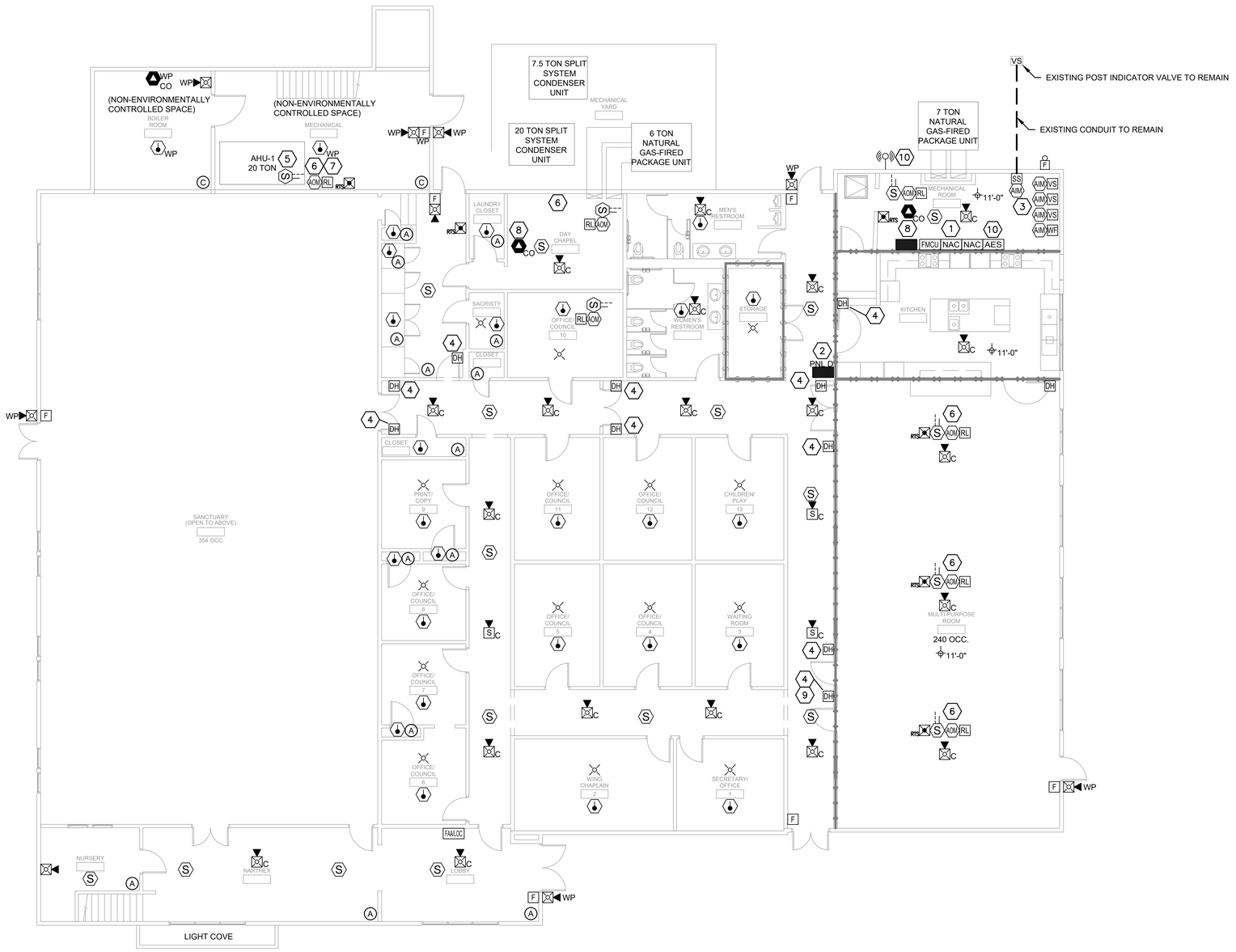
BOISE, ID
(208) 387-7000

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

MEZZANINE LEVEL DEMOLITION PLAN - FIRE ALARM

SHEET ID
B2606
FD102

100% DESIGN SUBMITTAL



PLAN NORTH

0 4' 8' 16'

A1 LEVEL ONE FLOOR PLAN - FIRE ALARM AND MASS NOTIFICATION SYSTEM

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

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER

12/19/2025

SHEET NOTES

1. THIS BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. PERFORM WORK IN SUCH A MANNER AS TO LIMIT INTERRUPTION TO BUILDING OCCUPANTS.
2. WORSHIP SPACES INCLUDING THE SANCTUARY, CHOIR LOFT, CRY ROOM, NARTHEX, LOBBY AND SACRISTY SHALL BE USED EACH SUNDAY. TOOLS, SCAFFOLDS, LADDERS, LIFTS, CONSTRUCTION DEBRIS, PROTECTIVE COVERINGS, MATERIALS, ETC. SHALL BE REMOVED FROM THESE AREAS NO LATER THAN FRIDAY NOON AND THOROUGHLY CLEANED (VACUUM, WIPED DOWN, ETC.). UNLESS OTHERWISE PERMITTED, PATCHING AND PAINTING ACTIVITIES WITHIN THESE SPACES SHALL BE COMPLETED NO LATER THAN THE PRIOR WEDNESDAY TO ALLOW ODORS ASSOCIATED WITH THESE ACTIVITIES TO DISSIPATE.
3. WORK PERFORMED WITHIN THE DAY CHAPEL, KITCHEN AND MULTIPURPOSE ROOM SHALL BE SCHEDULED IN ADVANCE WITH STAFF TO ENSURE THAT WORK ACTIVITIES DO NOT INTERFERE WITH SCHEDULED EVENTS.
4. UNLESS OTHERWISE NOTED, CEILINGS HEIGHTS ARE LESS THAN 10FT.
5. UNLESS OTHERWISE NOTED, CEILINGS FEATURE ACOUSTICAL CEILING TILES SUPPORTED BY METAL GRIDDED FRAMES. REFER ALSO TO CEILING LEGEND.
6. THROUGH AND MEMBRANE PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION SHALL BE PERFORMED IN A MANNER THAT MAINTAINS THE EXISTING RATINGS. LISTED FIRESTOPPING SYSTEMS AND MATERIALS SHALL BE PROVIDED AS REQUIRED. REFERENCE DIVISION 07 84 00.

SHEET KEY NOTES

1. INSTALL NEW FMCU, NAC POWER SUPPLIES, AES TRANSMITTERS, AND SURGE SUPPRESSORS. INSTALL ENGRAVED PLASTIC SIGN IDENTIFYING FIRE ALARM/MASS NOTIFICATION CONTROL UNIT. NOTIFICATION APPLIANCE POWER SUPPLIES, AND SURGE SUPPRESSOR ENCLOSURE. INSTALL ENGRAVED SIGNAGE INDICATING DEDICATED 120 VAC SOURCE, TO INCLUDE PANEL NUMBER/NAME AND CIRCUIT NUMBER(S).
2. DEDICATED 120 VAC POWER SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA 72, AND UFC 3-520-01 §3-2.7 - INTERIOR ELECTRICAL SYSTEMS. WHERE MORE THAN ONE DEDICATED CIRCUIT IS REQUIRED, INSTALL DEDICATED FIRE PROTECTION SUB-PANEL HAVING NO FEWER THAN 6 CIRCUITS.
3. INSTALL NEW ADDRESSABLE MONITOR MODULES AND INTERFACE WITH EXISTING SPRINKLER SYSTEM SUPERVISORY DEVICES. ADJUST TAMPER SWITCHES AND FLOW SWITCHES AS REQUIRED TO ACHIEVE CODE REQUIRED SUPERVISION AND RESPONSE TIMES. PROVIDE SURGE SUPPRESSOR FOR POST INDICATOR VALVE ISC CIRCUIT.
4. INTERFACE ELECTROMAGNETIC DOOR HOLDER TO FIRE ALARM SYSTEM AND ARRANGE TO CLOSE UPON DETECTION OF SMOKE AT DEDICATED SMOKE DETECTORS, UPON SPRINKLER SYSTEM WATER FLOW AND UPON GENERAL ALARM.
5. INSTALL DUCT DETECTOR WITHIN WEATHERPROOF ENCLOSURE SPECIFICALLY LISTED FOR THE DUCT DETECTOR INSTALLED TO PREVENT CONDENSATION BUILDUP INSIDE DUCT DETECTOR HOUSING.
6. INSTALL ADDRESSABLE OUTPUT MODULES FOR SHUT DOWN OF AHU. MOUNT CONTROL RELAY AT VARIABLE FREQUENCY DRIVE.
7. INSTALL ADDRESSABLE CONTROL MODULE AND RELAY WITHIN NEMA R ENCLOSURE.
8. INSTALL CO DETECTOR WITHIN THE FIRST ROOM SERVED BY THE SUPPLY AIR OF THE GAS FIRED PACKAGE UNIT.
9. EXISTING DOOR HOLDER LACKS APPROPRIATE BLOCKING AND HAS PULLED PARTIALLY FROM WALL. RESECURE DOOR HOLDER TO WITHSTAND PULLING FORCE OF 25LBS.
10. INSTALL EXTERIOR OMNIDIRECTIONAL VHF ANTENNA FOR AES RADIO TRANSMITTER. COORDINATE LOCATION WITH GOVERNMENT. ANTENNA MOUNTING LOCATION SHALL BE BASED UPON SIGNAL STRENGTH.

WALL RATINGS

S S S	SMOKE-RATED PARTITION
	1-HOUR FIRE-RATED BARRIER
	2-HOUR FIRE-RATED BARRIER

CEILING LEGEND

A	GYPSUM BOARD
B	OPEN TO DECK ABOVE
C	OPEN TO WOOD JOISTS
D	OPEN TO ROOF RAFTERS ABOVE

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: D.ETER
SIZE: ANSI D

ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 10430451
SHEET NUMBER: 7 OF 14

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

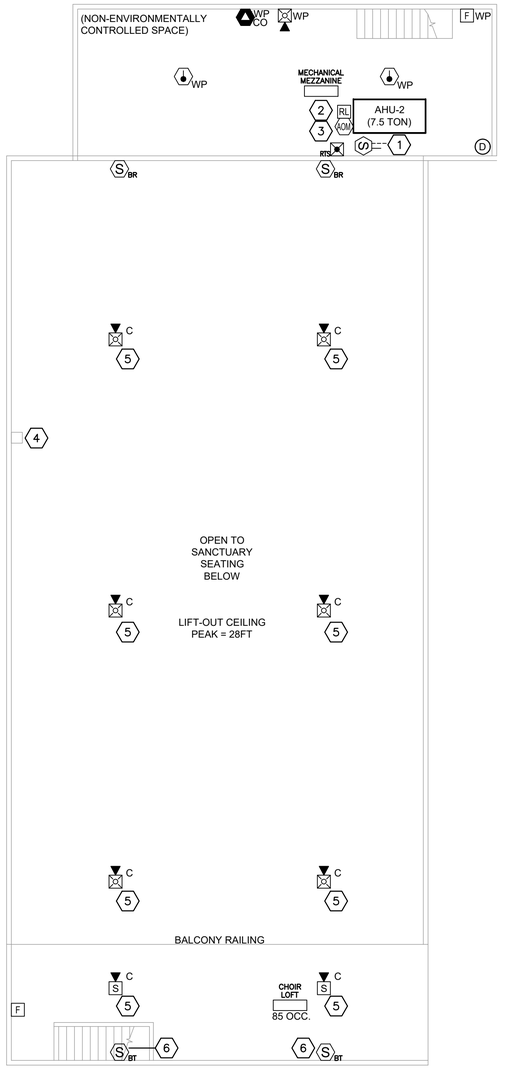
HDR
HDR Engineering, Inc.
412 E. PARKCENTER BLVD.
BOISE ID
(208) 387-7000

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

LEVEL ONE FLOOR PLAN - FIRE ALARM AND MASS NOTIFICATION SYSTEM

SHEET ID
B2606
FA101

100% DESIGN SUBMITTAL



SHEET NOTES

1. THIS BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. PERFORM WORK IN SUCH A MANNER AS TO LIMIT INTERRUPTION TO BUILDING OCCUPANTS.
2. WORSHIP SPACES INCLUDING THE SANCTUARY, CHOIR LOFT, CRY ROOM, NARTHEX, LOBBY AND SACRISTY SHALL BE USED EACH SUNDAY. TOOLS, SCAFFOLDS, LADDERS, LIFTS, CONSTRUCTION DEBRIS, PROTECTIVE COVERINGS, MATERIALS, ETC. SHALL BE REMOVED FROM THESE AREAS NO LATER THAN FRIDAY NOON AND THOROUGHLY CLEANED (VACUUM, WIPED DOWN, ETC.). UNLESS OTHERWISE PERMITTED, PATCHING AND PAINTING ACTIVITIES WITHIN THESE SPACES SHALL BE COMPLETED NO LATER THAN THE PRIOR WEDNESDAY TO ALLOW ODORS ASSOCIATED WITH THESE ACTIVITIES TO DISSIPATE.
3. WORK PERFORMED WITHIN THE DAY CHAPEL, KITCHEN AND MULTIPURPOSE ROOM SHALL BE SCHEDULED IN ADVANCE WITH STAFF TO ENSURE THAT WORK ACTIVITIES DO NOT INTERFERE WITH SCHEDULED EVENTS.
4. UNLESS OTHERWISE NOTED, CEILINGS HEIGHTS ARE LESS THAN 10FT.
5. UNLESS OTHERWISE NOTED, CEILINGS FEATURE ACOUSTICAL CEILING TILES SUPPORTED BY METAL GRIDDED FRAMES. REFER ALSO TO CEILING LEGEND.
6. THROUGH AND MEMBRANE PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION SHALL BE PERFORMED IN A MANNER THAT MAINTAINS THE EXISTING RATINGS. LISTED FIRESTOPPING SYSTEMS AND MATERIALS SHALL BE PROVIDED AS REQUIRED. REFERENCE DIVISION 07 84 00.

SHEET KEY NOTES

1. INSTALL DUCT DETECTOR WITHIN WEATHERPROOF ENCLOSURE SPECIFICALLY LISTED FOR THE DUCT DETECTOR INSTALLED TO PREVENT CONDENSATION BUILD UP INSIDE DUCT DETECTOR HOUSING.
2. INSTALL ADDRESSABLE CONTROL MODULE AND RELAY WITHIN NEMA R ENCLOSURE.
3. INSTALL ADDRESSABLE OUTPUT MODULES FOR SHUT DOWN OF AHU. MOUNT CONTROL RELAY AT VARIABLE FREQUENCY DRIVE.
4. INSTALL NEW 3/4IN W/REMOLD TO SERVICE NEW MANUAL PULL STATION AND EXTERIOR SPEAKER/STROBE.
5. INSTALL NEW SPEAKER / STROBE ON BOTTOM OF WOODEN BEAM.
6. INSTALL NEW PHOTOELECTRIC BEAM DETECTOR WITH FAR END MIRROR TO ALLOW DETECTOR TESTING AND SERVICING FROM THE CHOIR LOFT.

CEILING LEGEND

A	GYPSUM BOARD
B	OPEN TO DECK ABOVE
C	OPEN TO WOOD JOISTS
D	OPEN TO ROOF RAFTERS ABOVE

PLAN NORTH

0 4' 8' 16'

A1 MEZZANINE LEVEL FLOOR PLAN - FIRE ALARM AND MASS NOTIFICATION SYSTEM
SCALE: 1/8" = 1'-0"

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER
12/19/2025

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 10430451
SHEET NUMBER: 8 OF 14

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: PETER
SIZE: ANSI D

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

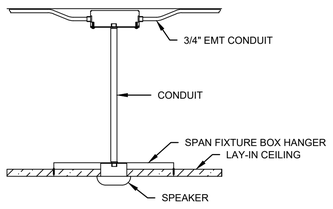
HDR
412 E. PARKCENTER BLVD.
BOISE, ID
(208) 387-7000
HDR Engineering, Inc.

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

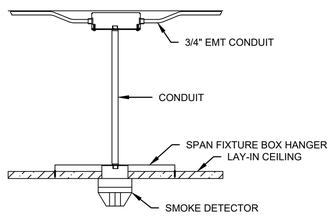
MEZZANINE LEVEL FLOOR PLAN - FIRE ALARM AND MASS NOTIFICATION SYSTEM

SHEET ID
B2606
FA102

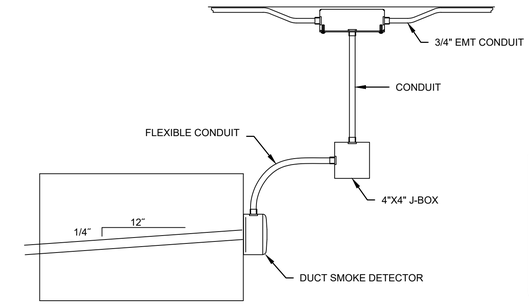
100% DESIGN SUBMITTAL



F1 TYPICAL DETAIL FOR SPEAKER MOUNTED ON LAY-IN CEILING
SCALE: NTS

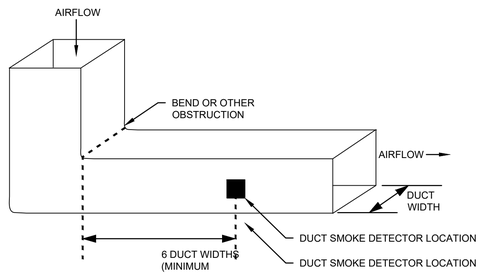


F3 TYPICAL DETAIL FOR SMOKE DETECTOR MOUNTED ON LAY-IN CEILING
SCALE: NTS

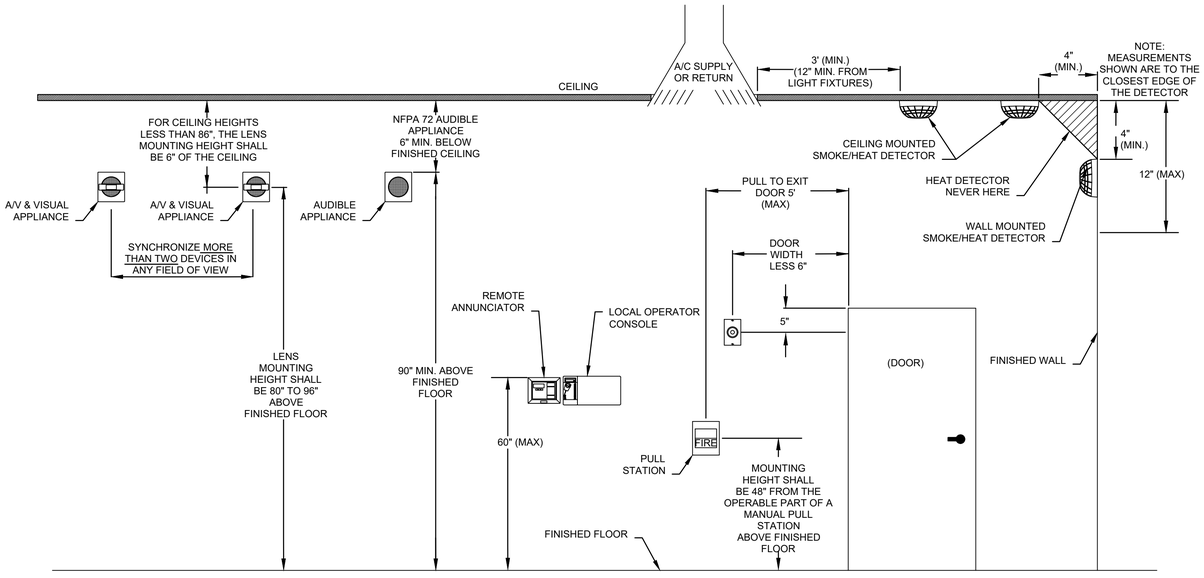


1) THE SAMPLING TUBE SHOULD BE ANGLED AT LEAST ½" DOWNWARD FOR EVERY 12" OF DUCT WIDTH.

D1 TYPICAL DETAIL FOR DUCT SMOKE DETECTOR MOUNTING
SCALE: NTS



D3 DUCT SMOKE DETECTOR DETAIL
SCALE: NTS



A1 TYPICAL DEVICE MOUNTING DETAIL
SCALE: NTS

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER	ISSUE DATE: 19 DECEMBER 2025
DRAWN BY: W. CUNARD	DELIVERY ORDER NO: FA4897-25-F-0020
CHECKED BY: Z. SACHSENMAIER	CONTRACT NUMBER: FA4897-20-D-0001
SUBMITTED BY: DERR	PROJECT NUMBER: 0430451
SIZE: ANSI D	SHEET NUMBER: 9 OF 14

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR
HDR Engineering, Inc.
412 E. PARKCENTER BLVD.
BOISE ID
(208) 387-7000

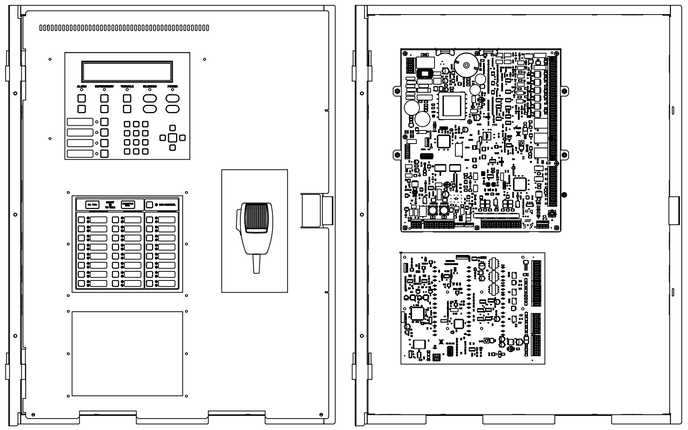
MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

FIRE ALARM AND MASS NOTIFICATION SYSTEM
TYPICAL DETAILS

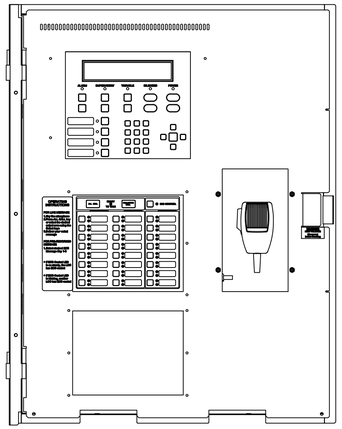
STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER
12/19/2025

SHEET ID
B2606
FA501

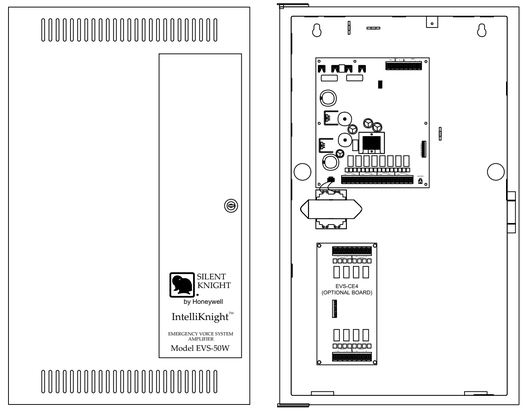
100% DESIGN SUBMITTAL



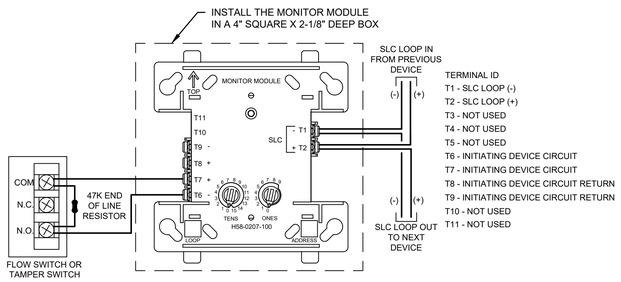
E1 6820 EVS FIRE ALARM AND MASS NOTIFICATION CONTROL UNIT
SCALE: NTS



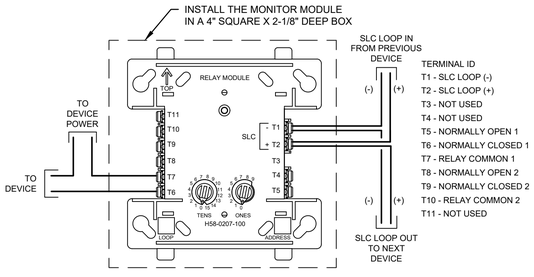
E4 6820 EV-LOC FIRE ALARM ANNUNCIATOR AND LOCAL OPERATORS CONSOLE
SCALE: NTS



E6 EVS-50 AMPLIFIER
SCALE: NTS



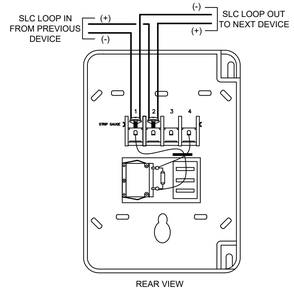
C1 SK-MONITOR ADDRESSABLE INPUT MODULE
SCALE: NTS



RELAY CONTACT RATINGS:

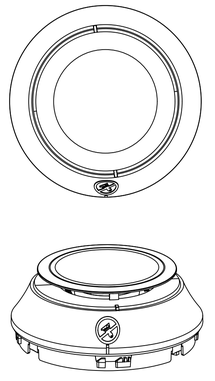
CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION	APPLICATION
3 A	30 VDC	Resistive	Non-coded
2 A	30 VDC	Resistive	Coded
.9 A	110 VDC	Resistive	Non-coded
.9 A	125 VDC	Resistive	Non-coded
.5 A	30 VDC	Inductive (L/R=5ms)	Coded
1 A	30 VDC	Inductive (L/R=2ms)	Coded
3 A	125 VAC	Inductive (PF=.35)	Non-coded
1.5 A	25 VAC	Inductive (PF=.35)	Non-coded
.7 A	70.7 VAC	Inductive (PF=.35)	Non-coded
2 A	25 VAC	Inductive (PF=.35)	Non-coded

A1 SK-RELAY ADDRESSABLE RELAY MODULE
SCALE: NTS



NOTE: THE MANUAL PULL STATION CAN BE FLUSH MOUNTED ON A SINGLE GANG DEEP BOX OR CAN BE SURFACE MOUNTED ON A SB-I/O OR SB-10 BOX.

A3 SK-PULL ADDRESSABLE MANUAL PULL STATION
SCALE: NTS



A6 SK-PHOTO ADDRESSABLE SMOKE DETECTOR
SCALE: NTS

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER

12/19/2025

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 10430451
SHEET NUMBER: 10 OF 14

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNJARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: P. DERR
E SIZE: ANSI D

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR
412 E. PARKCENTER BLVD.
BOISE, ID
(208) 387-7000
HDR Engineering, Inc.

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

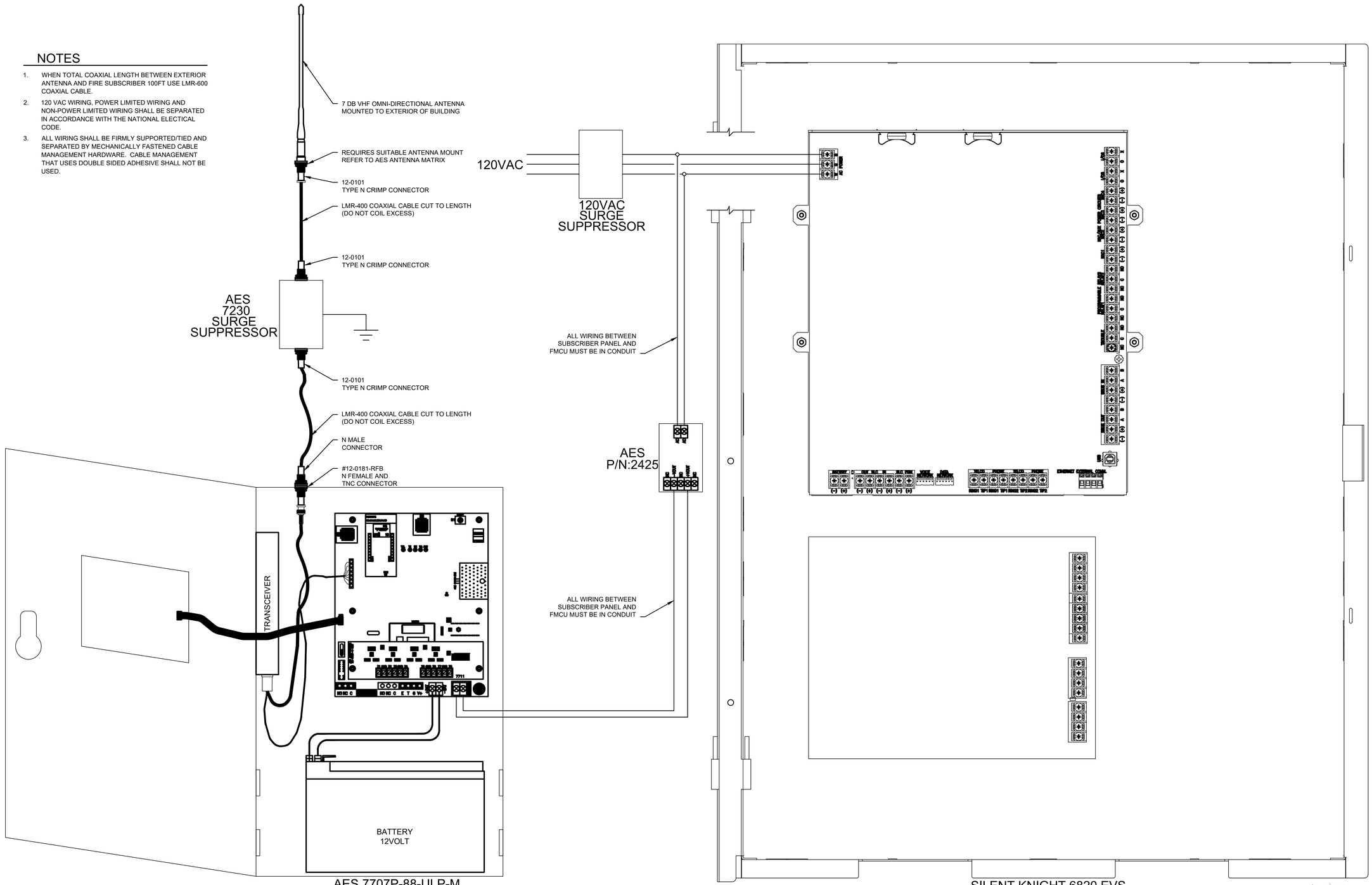
FIRE ALARM AND MASS NOTIFICATION SYSTEM
TYPICAL DETAILS

SHEET ID
B2606
FA502

100% DESIGN SUBMITTAL

NOTES

1. WHEN TOTAL COAXIAL LENGTH BETWEEN EXTERIOR ANTENNA AND FIRE SUBSCRIBER 100FT USE LMR-600 COAXIAL CABLE.
2. 120 VAC WIRING, POWER LIMITED WIRING AND NON-POWER LIMITED WIRING SHALL BE SEPARATED IN ACCORDANCE WITH THE NATIONAL ELECTICAL CODE.
3. ALL WIRING SHALL BE FIRMLY SUPPORTED/TIED AND SEPARATED BY MECHANICALLY FASTENED CABLE MANAGEMENT HARDWARE. CABLE MANAGEMENT THAT USES DOUBLE SIDED ADHESIVE SHALL NOT BE USED.



A1 TYPICAL INTELLINET 2.0 FIRE SUBSCRIBER POWER AND ANTENNA MOUNTING DETAIL
SCALE: NTS

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER
12/19/2025

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: DIERR
SIZE: ANSI D
ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 10430451
SHEET NUMBER: 11 OF 14

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR
HDR Engineering, Inc.
412 E. PARKCENTER BLVD.
BOISE, ID
(208) 387-7000

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

FIRE ALARM AND MASS NOTIFICATION SYSTEM
TYPICAL DETAILS

SHEET ID
B2606
FA503

100% DESIGN SUBMITTAL

FIRE ALARM / MASS NOTIFICATION SYSTEM SEQUENCE OF OPERATIONS MATRIX

		NOTIFICATION														MONITORING				SAFETY & CONTROLS	
		ACTIVATE INTERIOR SPEAKERS	ACTIVATE EXTERIOR SPEAKERS	ACTIVATE FIRE ALARM AND MASS NOTIFICATION STROBES	INITIATE DEDICATED FIRE EVACUATION MESSAGE - TEMPORAL 4	INITIATE CARBON MONOXIDE MESSAGE - TEMPORAL 4	INTERRUPT DEDICATED FIRE EVACUATION MESSAGE - TEMPORAL 3	INITIATE PRE-RECORDED MASS NOTIFICATION MESSAGE PLAYBACK	INITIATE PRE-RECORDED FIRE EVACUATION MESSAGE PLAYBACK	INITIATE PRE-RECORDED "ALL CLEAR" MESSAGE PLAYBACK	DISPLAY ALARM SIGNAL AT FMCU AND REMOTE ANNUNCIATOR	ACTIVATE AUDIO ALARM SIGNAL AT FMCU AND REMOTE ANNUNCIATOR	DISPLAY TROUBLE SIGNAL AT FMCU AND REMOTE ANNUNCIATOR	ACTIVATE AUDIO TROUBLE SIGNAL AT FMCU AND REMOTE ANNUNCIATOR	DISPLAY SUPERVISORY SIGNAL AT FMCU AND REMOTE ANNUNCIATOR	ACTIVATE AUDIO SUPERVISORY SIGNAL AT FMCU AND REMOTE ANNUNCIATOR	TRANSMIT DEVICE ACTIVATION SIGNAL TO BASE MONITORING CENTER	SHUT DOWN ASSOCIATED HVAC UNIT	RELEASE ELECTRONIC LOCKING HARDWARE	RELEASE ELECTRO-MAGNETIC DOOR HOLDERS
	ALARM CONDITION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
1	MANUAL PULL STATION ACTIVATION	●	●	●	●					●	●					●		●	●		
2	AREA SMOKE DETECTOR ACTIVATION	●	●	●	●					●	●					●		●	●		
3	SANCTUARY BEAM DETECTORS	●	●	●	●					●	●					●		●	●		
4	AREA HEAT DETECTOR ACTIVATION	●	●	●	●					●	●					●		●	●		
5	SPRINKLER SYSTEM WATERFLOW SWITCH ACTIVATION	●	●	●	●					●	●					●		●	●		
6	CARBON MONOXIDE DETECTOR ACTIVATION	●	●	●		●				●	●					●		●	●		
7	DUCT SMOKE DETECTOR ACTIVATION	●	●	●	●					●	●					●	●	●	●		

	SUPERVISORY CONDITION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	SPRINKLER SYSTEM TAMPER SWITCH ACTIVATION													●	●	●			

	TROUBLE CONDITION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	LOSS OF FMCU PRIMARY POWER											●	●			●			
2	FMCU BATTERY FAULT											●	●			●			
3	FMCU SYSTEM TROUBLE											●	●			●			
4	LOSS OF PRIMARY REMOTE NAC POWER SUPPLY POWER											●	●			●			
5	REMOTE NAC POWER SUPPLY BATTERY FAULT											●	●			●			
6	REMOTE NAC POWER SUPPLY TROUBLE											●	●			●			
7	AMPLIFIER FAULT											●	●			●			
8	SLC CIRCUIT GROUND FAULT											●	●			●			
9	SLC CIRCUIT SHORT											●	●			●			
10	SLC CIRCUIT OPEN											●	●			●			
11	NAC CIRCUIT GROUND FAULT											●	●			●			
12	NAC CIRCUIT SHORT											●	●			●			
13	NAC CIRCUIT OPEN											●	●			●			
14	SPEAKER CIRCUIT GROUND FAULT											●	●			●			
15	SPEAKER CIRCUIT SHORT											●	●			●			
16	SPEAKER CIRCUIT OPEN											●	●			●			

	MASS NOTIFICATION SYSTEM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	LOC - MICROPHONE OFF HOOK	●	●	●										●	●	●			
2	LOC - MICROPHONE OFF HOOK WITH FIRE ALARM ACTIVE	●	●	●			●							●	●	●			
3	PRE-RECORDED MESSAGE MANUAL ACTIVATION	●	●	●				●						●	●	●			
4	PRE-RECORDED MESSAGE MANUAL ACTIVATION WITH FIRE ALARM ACTIVE	●	●	●			●	●						●	●	●			
5	PRE-RECORDED "ALL CLEAR" MESSAGE ACTIVATION	●	●	●					●					●	●	●			
6	PRE-RECORDED "ALL CLEAR" MESSAGE ACTIVATION WITH FIRE ALARM ACTIVE	●	●	●			●		●					●	●	●			

NOTES:

1. THIS SEQUENCE OF OPERATIONS MATRIX SHOWN IS A DEPICTION OF TYPICAL INPUTS AND OUTPUTS. CONTRACTOR SHALL DEVELOP SEQUENCE OF OPERATIONS MATRIX SPECIFIC TO THE BUILDING.
2. THE CONTRACTOR SHALL PROGRAM THE FA/MNS CONTROL UNITS AND THE AES BASE-WIDE MONITORING SYSTEM TO TRANSMIT AND RECEIVE ALARM SIGNALS/DATA TO INCLUDE ALARM TYPE (ALARM, TROUBLE AND SUPERVISORY SIGNALS), DEVICE TYPE (SMOKE DETECTOR, HEAT DETECTOR, DUCT SMOKE DETECTION, MANUAL PULL STATION, SUPPRESSION SYSTEM STATUS, SPRINKLER WATER FLOW, SPRINKLER VALVE SUPERVISION, ETC.).
3. FIRE ALARM AND CARBON MONOXIDE ALARM VOICE MESSAGES WILL FOLLOW PRE-ALERT WARNING TONES. REFER TO FIRE ALARM AND MASS NOTIFICATION SYSTEM VOICE MESSAGES SCHEDULE FOR ADDITIONAL DETAILS.

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER
12/19/2025

A1 FIRE ALARM AND MASS NOTIFICATION SYSTEM SEQUENCE OF OPERATIONS MATRIX
SCALE: NTS

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

DESIGNED BY:	R. RICHTER
DRAWN BY:	W. CUNARD
CHECKED BY:	Z. SACHSENMAIER
SUBMITTED BY:	D. DERR
SIZE:	ANSI D
ISSUE DATE:	19 DECEMBER 2025
DELIVERY ORDER NO:	FA4897-25-F-0020
CONTRACT NUMBER:	FA4897-20-D-0001
PROJECT NUMBER:	10430451
SHEET NUMBER:	12 OF 14

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

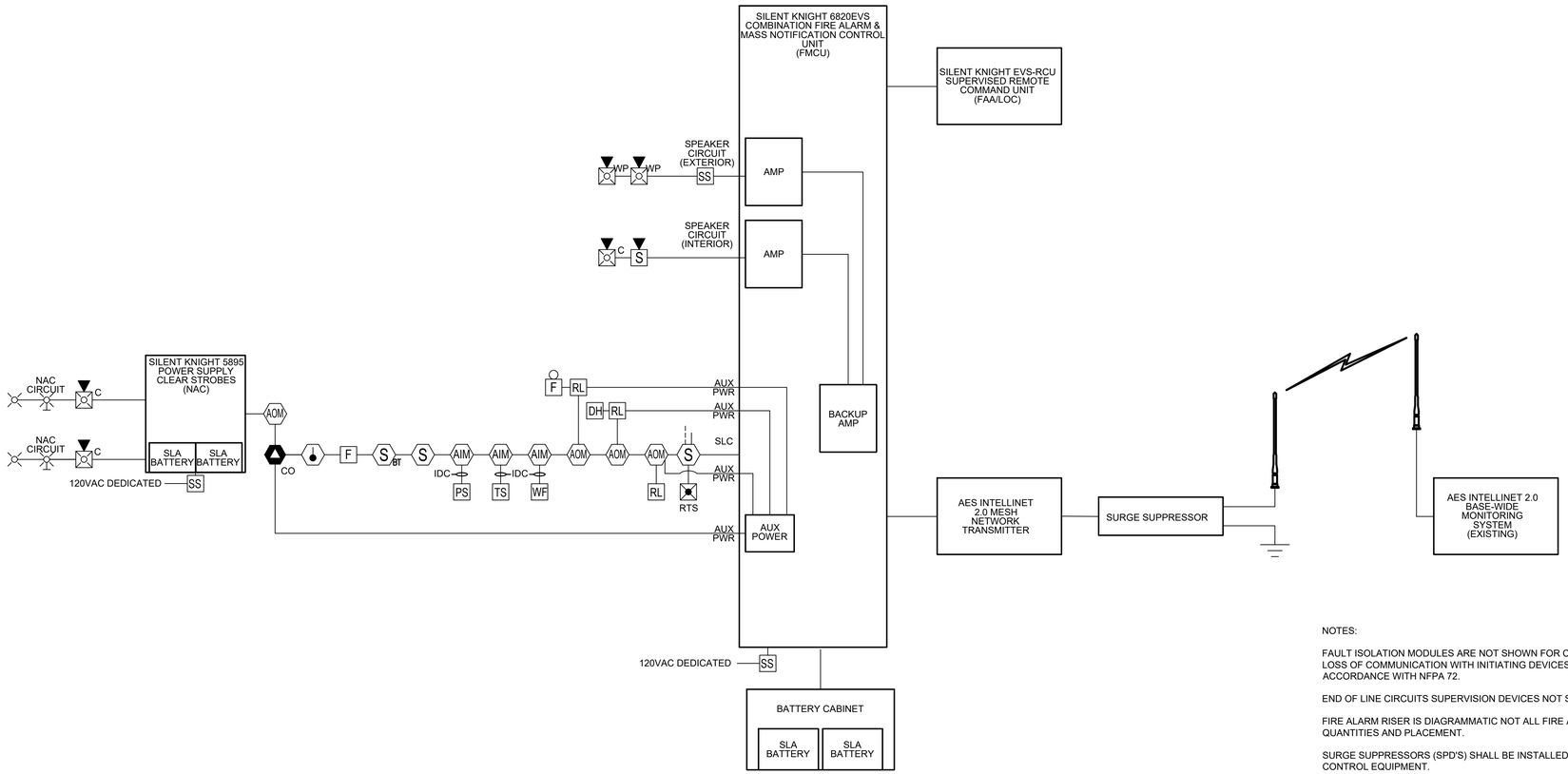
HDR
HDR Engineering, Inc.
412 E. PARKCENTER BLVD.
BOISE ID
(208) 387-7000

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

FIRE ALARM AND MASS NOTIFICATION SYSTEM
SEQUENCE OF OPERATIONS MATRIX

SHEET ID
B2606
FA601

100% DESIGN SUBMITTAL



NOTES:

FAULT ISOLATION MODULES ARE NOT SHOWN FOR CLARITY. FAULT ISOLATION MODULES SHALL BE PROVIDED TO LIMIT LOSS OF COMMUNICATION WITH INITIATING DEVICES AND CONTROL MODULES IN THE EVENT OF A SINGLE FAULT IN ACCORDANCE WITH NFPA 72.

END OF LINE CIRCUITS SUPERVISION DEVICES NOT SHOWN FOR CLARITY. PROVIDE AS REQUIRED FOR CLASS B CIRCUITS.

FIRE ALARM RISER IS DIAGRAMMATIC NOT ALL FIRE ALARM DEVICES ARE SHOWN. CONSULT PLAN SHEETS FOR DEVICE QUANTITIES AND PLACEMENT.

SURGE SUPPRESSORS (SPD'S) SHALL BE INSTALLED WITHIN A SEPARATE ENCLOSURE LOCATED ADJACENT TO FA/MNS CONTROL EQUIPMENT.

EXTERIOR SPEAKERS TO BE INSTALLED ON A DEDICATED AMPLIFIER WITH SEPARATE SPEAKER CIRCUIT.

WHERE A REMOTE EXTERIOR AES ANTENNA IS REQUIRED TO ENSURE RELIABLE COMMUNICATIONS, PROVIDE SURGE SUPPRESSOR, COAXIAL CABLE AND EXTERIOR ANTENNA MOUNTING HARDWARE. ANTENNA SHALL BE INSTALLED IN A MANNER THAT PROVIDES CLEAR LINE OF SITE TO RECEIVING CENTER ANTENNAS.

A1 FIRE ALARM AND MASS NOTIFICATION SYSTEM RISER DIAGRAM
SCALE: NTS

STATE OF TEXAS
ROBERT D. RICHTER
125123
LICENSED
PROFESSIONAL ENGINEER
12/19/2025

U.S. AIR FORCE

MARK	DESCRIPTION	DATE

DESIGNED BY: R. RICHTER
DRAWN BY: W. CUNARD
CHECKED BY: Z. SACHSENMAIER
SUBMITTED BY: B. ZIERK
SIZE: ANSI D
ISSUE DATE: 19 DECEMBER 2025
DELIVERY ORDER NO.: FA4897-25-F-0020
CONTRACT NUMBER: FA4897-20-D-0001
PROJECT NUMBER: 1043451
SHEET NUMBER: 15 OF 16

U.S. AIR FORCE
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE
MOUNTAIN HOME, IDAHO

HDR
412 E. PARKCENTER BLVD.
BOISE, ID
(208) 387-7000
HDR Engineering, Inc.

MOUNTAIN HOME AIR FORCE BASE
B2606 FIRE ALARM REPAIR

FIRE ALARM AND MASS NOTIFICATION
SYSTEM RISER DIAGRAM

SHEET ID
B2606
FA602

100% DESIGN SUBMITTAL

FIRE ALARM AND MASS NOTIFICATION SYSTEM VOICE MESSAGES

MESSAGE NUMBER	MESSAGE NAME	VOICE TYPE	PRE-MESSAGE TONE DURATION/ROUNDS	AUDIBLE MESSAGE WORDING	STROBE ACTIVATION	LOOP DURATION
DEDICATED FIRE EVAC	FIRE ALARM - GENERAL	FEMALE/ ENGLISH	THREE PULSE TEMPORAL (NFPA 72 §18.4.2.1) 422-775HZ UPWARD SWEEP OVER 850 MILLISECONDS SEPARATED BY 1 SECOND FOLLOWED BY 1.5 SECOND DELAY /TWO ROUNDS	"MAY I HAVE YOUR ATTENTION PLEASE? A FIRE EMERGENCY HAS BEEN REPORTED IN THIS BUILDING. PLEASE LEAVE THE BUILDING BY THE NEAREST EXIT OR EXIT STAIRWAY.	YES (STROBES WILL CONTINUE TO FLASH UNTIL FA/MNS SYSTEM HAS BEEN RESET.)	REPEAT VOICE MESSAGE TWICE, THEN REPEAT FULL CYCLE UNTIL A MINIMUM DURATION OF 180 SECONDS HAS BEEN REACHED.
DEDICATED CARBON MONOXIDE	CARBON MONOXIDE	FEMALE/ ENGLISH	FOUR PULSE TEMPORAL (NFPA 72 § 18.4.3.2) 520 HZ OVER 850 MILLISECONDS SEPARATED BY 1 SECOND FOLLOWED BY 1.5 SECOND DELAY /TWO ROUNDS	CARBON MONOXIDE HAS BEEN DETECTED IN THIS BUILDING. PLEASE LEAVE THE BUILDING BY THE NEAREST EXIT OR EXIT STAIRWAY.	YES (STROBES WILL CONTINUE TO FLASH UNTIL FA/MNS SYSTEM HAS BEEN RESET.)	REPEAT VOICE MESSAGE TWICE, THEN REPEAT FULL CYCLE UNTIL A MINIMUM DURATION OF 180 SECONDS HAS BEEN REACHED.

LOCAL OPERATOR CONSOLE INITIATED MESSAGES

MESSAGE NUMBER	MESSAGE NAME	VOICE TYPE	PRE-MESSAGE TONE DURATION/ROUNDS	AUDIBLE MESSAGE WORDING	STROBE ACTIVATION	LOOP DURATION
1	SHELTER IN PLACE	FEMALE/ ENGLISH	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	"ATTENTION, ATTENTION. A TERRORIST THREAT HAS BEEN RECEIVED. EFFECTIVE IMMEDIATELY, IMPLEMENT SHELTER IN PLACE PROCEDURES. ALL PERSONNEL SHOULD REMAIN CALM AND STAY WHERE YOU ARE. SHUT DOWN HVAC SYSTEMS AND AWAIT FURTHER INSTRUCTIONS."	YES	PROVIDE A 2-SECOND PAUSE…REPEAT THE MESSAGE.
2	BOMB THREAT	FEMALE/ ENGLISH	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	"ATTENTION, ATTENTION. A BOMB THREAT HAS BEEN ISSUED FOR THIS BUILDING. ALL PERSONNEL ARE TO EVACUATE IMMEDIATELY USING THE NEAREST EXIT. FURTHER INSTRUCTIONS WILL BE ISSUED OUTSIDE THE BUILDING BY EMERGENCY RESPONSE TEAMS".	YES	PROVIDE A 2-SECOND PAUSE…REPEAT THE MESSAGE.
3	ACTIVE SHOOTER	FEMALE/ ENGLISH	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	"LOCKDOWN, LOCKDOWN, LOCKDOWN. ACTIVE SHOOTER ON BASE, ACXTIVE SHOOTER ON BASE. LOCKDOWN, LOCKDOWN, LOCKDOWN."	YES	PROVIDE A 2-SECOND PAUSE…REPEAT THE MESSAGE.
4	EXERCISE ACTIVE SHOOTER	FEMALE/ ENGLISH	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	"EXERCISE, EXERCISE, EXERCISE ACTIVE SHOOTER ON BASE. LOCKDOWN, LOCKDOWN, LOCKDOWN".	YES	PROVIDE A 2-SECOND PAUSE…REPEAT THE MESSAGE.
5	WEATHER WARNING LIGHTNING WITHIN 5 MILES	FEMALE/ ENGLISH	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	"A WEATHER WARNING HAS BEEN ISSUED FOR OBSERVED LIGHTNING WITHIN 5 NAUTICAL MILES OF THE BASE AND IS VALID FROM NOW UNTIL FURTHER NOTICE".	YES	PROVIDE A 2-SECOND PAUSE…REPEAT THE MESSAGE.
6	FIRE ALARM - GENERAL	FEMALE/ ENGLISH	THREE PULSE TEMPORAL (NFPA 72 §18.4.2.1) 422-775HZ UPWARD SWEEP OVER 850 MILLISECONDS SEPARATED BY 1 SECOND FOLLOWED BY 1.5 SECOND DELAY /TWO ROUNDS	"MAY I HAVE YOUR ATTENTION PLEASE? A FIRE EMERGENCY HAS BEEN REPORTED IN THIS BUILDING. PLEASE LEAVE THE BUILDING BY THE NEAREST EXIT OR EXIT STAIRWAY.	YES	REPEAT VOICE MESSAGE TWICE, THEN REPEAT FULL CYCLE UNTIL A MINIMUM DURATION OF 180 SECONDS HAS BEEN REACHED.
7	SYSTEM TEST	FEMALE/ ENGLISH	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	"THIS IS A SYSTEM TEST. PLEASE TAKE NO ACTION, THIS IS ONLY A TEST".	YES	PROVIDE A 2-SECOND PAUSE…REPEAT THE MESSAGE.
8	ALL CLEAR	FEMALE/ ENGLISH	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	"ALL CLEAR, THE EMERGENCY HAS NOW ENDED. PLEASE RESUME NORMAL OPERATIONS. THANK YOU FOR YOUR COOPERATION".	NOT APPLICABLE	PROVIDE A 2-SECOND PAUSE…REPEAT THE MESSAGE.
LIVE VOICE	MICROPHONE (LOC) KEYING	N/A	THREE 1000 HZ TONES (1-SECOND EACH) ARE PLAYED, FOLLOWED BY THE MESSAGE.	LIVE VOICE	YES	NOT APPLICABLE

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FIRE ALARM AND MASS NOTIFICATION SYSTEM
VOICE MESSAGES

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