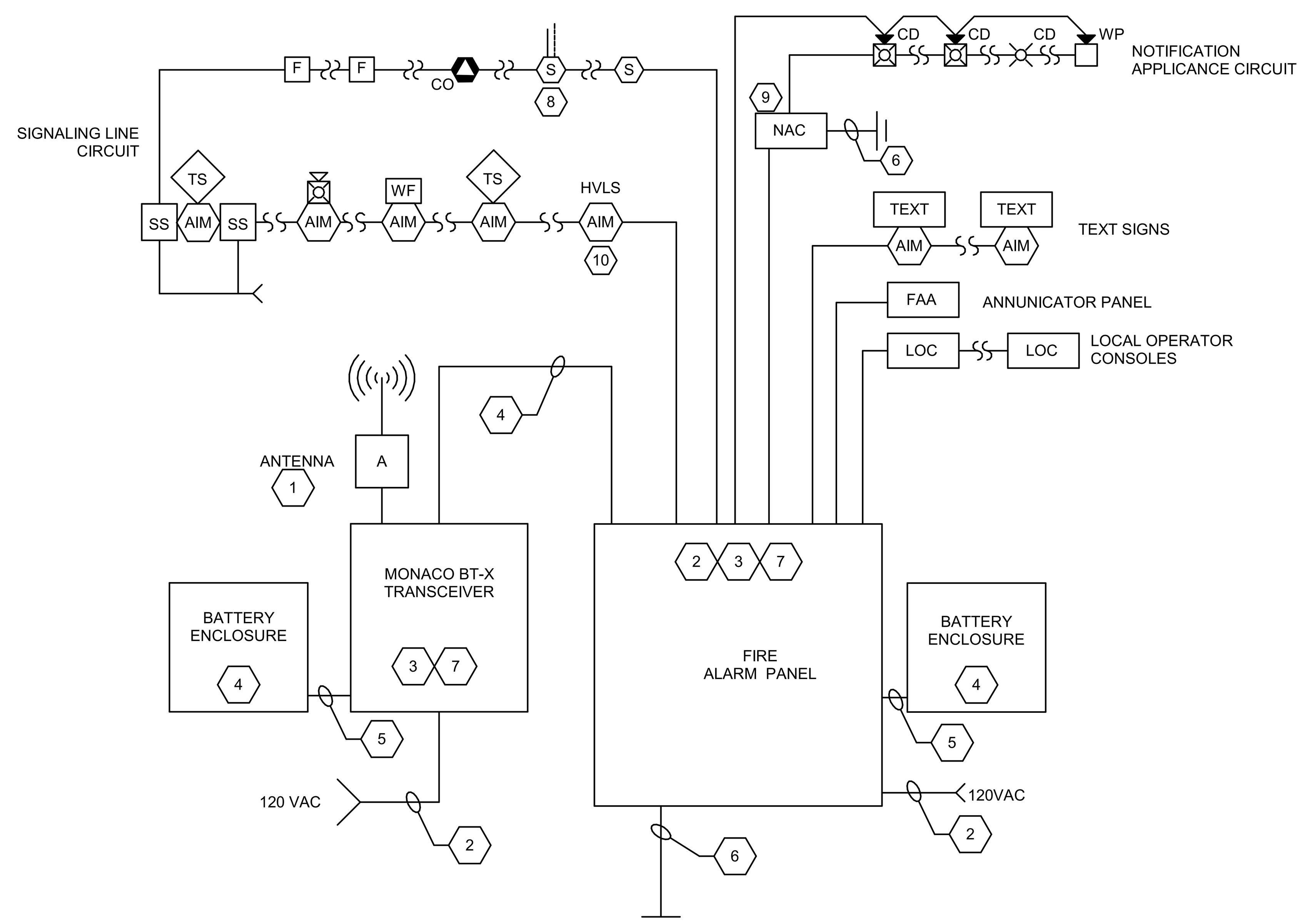
FIRE ALARM KEYED NOTES

1. RADIO SHALL TRANSMIT SIGNAL TO A REMOTE STATION. COORDINATE WITH CITY AND FIRE DEPARTMENT.
2. INSTALL NEW DEDICATED 120V BRANCH CIRCUIT WITH BREAKER LOCK AND IDENTIFICATION. BREAKER SHALL BE RED IN COLOR.
3. INSTALL NEW 120V SPD ON INCOMING POWER WITHIN PANEL.
4. BATTERIES INSTALLED IN FACP OR SEPARATE ENCLOSURE SIZED FOR 24 HOURS IN STANDBY PLUS 15 MINUTES IN ALARM .
5. INSTALL NEW POWER SUPPLY CONDUCTORS IN 3/4" C.
6. INSTALL NEW (1#6 COPPER GROUND WIRE) 3/4" C TO BUILDING GROUND.
7. INSTALL PERMANENT SIGNAGE WITH 1/8" LETTERING IDENTIFYING LOCATION OF 120V CIRCUIT BREAKER.
8. PROVIDE REMOTE TEST AND RESET STATION FOR EACH DUCT SMOKE DETECTOR THAT IS MOUNTED ABOVE 7-FEET OR CANNOT BE REACHED FROM FLOOR.
9. ACTUAL NUMBER OF NAC PANELS TO BE DETERMINED BY FIRE ALARM SUBCONTRACTOR AND WILL BE REPRESENTED ON SHOP DRAWINGS.
10. ADDRESSABLE MONDULE FOR HVLS FAN. COORDINATE WITH ELECTRICAL CONTRACTOR LOCATION OF SHUNT TRIP BREAKERS FOR EACH HVLS FAN.



FIRE ALARM SYSTEM GENERAL NOTES

1. FIRE ALARM SYSTEM DESIGN, INSTALLATION, AND MATERIALS SHALL BE IN ACCORDANCE WITH LRAFB DESIGN GUIDE, **UFC 3-600-01, UFC 4-021-01, ECB 2017-17,** NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES, AND THE REQUIREMENTS OF THE AHJ AND INSURANCE CARRIER.
2. THE SYSTEM SHALL BE A COMPLETE, ELECTRONICALLY SUPERVISED, ADDRESSABLE, INTELLIGENT (BOTH MANUAL AND AUTOMATIC) ANNUNCIATED **COMBINATION** FIRE ALARM / **MASS NOTIFICATION** SYSTEM COVERING THE ENTIRE FACILITY. **THE COMBINED SYSTEMS SHALL UTILIZE COMMON AUDIO SPEAKERS.**
3. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES.
4. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AHJ AND INSURANCE CARRIER'S REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM **AND MASS NOTIFICATION** SYSTEM.
6. **THE MASS NOTIFICATION SYSTEM SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM TO TEMPORARILY STOP AUDIBLE FIRE ALARM WHEN MASS NOTIFICATION VOICE SYSTEM IS IN USE. SEE SHEET FA003 FOR COMPLETE LIST OF MASS NOTIFICATION MESSAGES AND MESSAGE PRIORITY.**
7. INSTALL SURGE SUPPRESSION DEVICES LISTED IN ACCORDANCE WITH UL 497B FOR ALL CIRCUITS THAT ENTER OR EXIT THE BUILDING ENVELOPE.
8. REMOTE FIRE ALARM ANNUNCIATES **AND LOCAL OPERATING CONSOLES** SHALL BE COORDINATED WITH THE FIRE DEPARTMENT AND AHJ PRIOR TO INSTALLATION.
9. PROVIDE CONNECTION TO EXTERIOR WATERFLOW ALARM BELL OR HORN/STROBE AS REQUIRED.
10. PROVIDE NOTIFICATION, INITIATING, AND MONITORING DEVICES AS INDICATED ON THE DRAWINGS. FIRE ALARM DEVICES SHALL BE OF ONE MANUFACTURER AND SHALL BE LISTED FOR USE WITH THE FIRE ALARM PANEL.
11. SIGNALING LINE CIRCUITS SERVING NON-INITIATING DEVICES SHALL BE CLASS "A" AND A MINIMUM 18 AWG SOLID COPPER WIRE.
12. SIGNALING LINE CIRCUITS SERVING INITIATING DEVICES SHALL BE CLASS "A" AND A MINIMUM 16 AWG SOLID COPPER WIRE.
13. SPEAKER CIRCUITS SHALL BE A MINIMUM OF 16 AWG SOLID COPPER WIRE.
14. NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS "A" AND A MINIMUM 16 AWG SOLID COPPER WIRE.
15. PROVIDE CLASS "A" SEPARATION DISTANCE BETWEEN OUTGOING AND RETURN CONDUITS PER SECTION A.23.4.2.2 OF NFPA 72.
16. PROVIDE NOTIFICATION APPLIANCE CIRCUIT PANEL(S) TO POWER NOTIFICATION DEVICES AS REQUIRED. CONNECT TO FIRE ALARM SYSTEM.
17. AUDIBLE NOTIFICATION DEVICES SHALL SOUND UNTIL SILENCED AT THE CONTROL PANEL OR REMOTE ANNUNCIATOR AS REQUIRED. VISUAL ALARM IS DISPLAYED UNTIL DEVICE IS RETURNED TO ITS NORMAL POSITION OR SUPERVISORY CONDITION IS CLEARED.
18. INTERFACE WITH AND MONITOR DUCT DETECTORS FOR HVAC UNITS WITH CFM OF 2,000 OR GREATER. PROVIDE REMOTE TEST AND RESET STATION FOR EACH DUCT SMOKE DETECTOR THAT IN MOUNTED ABOVE 7-FEET OR CANNOT BE REACHED FROM FLOOR.
19. DUCT SMOKE DETECTION SHALL TRANSMIT A SUPERVISORY SIGNAL TO THE FACP.
20. AIR HANDLING SYSTEMS THAT ARE MONITORED SHALL SHUTDOWN AND REMAIN DOWN UNTIL MANUALLY RESET.
21. INTERFACE WITH AND MONITOR ALL FIRE SUPPRESSION SYSTEM DEVICES INCLUDING (BUT NOT LIMITED TO) SPRINKLER FLOW AND TAMPER SWITCHES.
22. SYSTEM INSTALLER SHALL BE A LICENSED FIRE ALARM CONTRACTOR IN THE STATE OF ARKANSAS.
23. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH OTHER TRADES. FAILURE TO COORDINATE MAY RESULT IN REVISED INSTALLATION AT CONTRACTOR'S EXPENSE.
24. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE FUNCTIONALITY OF THE EXISTING FIRE ALARM SYSTEM BEFORE MODIFICATION/EXTENSION WORK BEGINS
25. CEILING MOUNTED DEVICE LOCATIONS MUST BE COORDINATED WITH THE ARCHITECT. DEVICE LOCATED SOFFIT PANEL SYSTEM MUST BE LOCATED IN CENTER OF PANELS.
26. FIRE ALARM SYSTEM SHALL MONITOR ANY KNOX BOXES FOR TAMPERING AND TRANSMIT A SUPERVISORY SIGNAL IF TAMPERING OCCURS.
27. ALL WIRING SHALL BE IN CONDUIT.
28. IN UNFINISHED AREAS, ALL CONDUIT, JUNCTION/BACK BOXES, COVERS, AND COUPLINGS, MUST BE FACTORY PAINTED RED (ABOVE CEILINGS, MECHANICAL ROOMS, CONCEALED SPACES). IN FINISHED AREAS, ITEMS ARE PERMITTED TO BE PAINTED TO MATCH THE ROOM FINISH, BUT THE INSIDE COVER OF THE JUNCTION BOX MUST BE IDENTIFIED AS "FIRE ALARM."
29. COORDINATE WITH HVLS FANS TO SHUNT DOWN IMMEDIATELY UPON ANY FIRE ALARM ACTIVATION.
30. **THE FIRE ALARM AND MASS NOTIFICATIONS SYSTEMS SHALL BE FULLY COMPATIBLE WITH THE EXISTING RADIO BASED MONOCO SYSTEMS AT THE BASE TO TRANSMIT TO THE BASE FIRE ALARM CONTROL CENTER/DISPATCH OFFICE OR OTHER DESIGNATED AREA.**
31. **ALL RADIO TRANSCEIVER EQUIPMENT, CABLES, AND ACCESSORIES SHALL BE PROVIDED BY MONOCO ENTERPRISES FOR A COMPLETE AND COORDINATED SYSTEM.**
32. **PERFORM PROGRAMMING WORK AT ALL BASE STATIONS, INCLUDING THE CENTRAL FIRE STATION, AND THE WIDE AREA MNS CENTRAL CONTROL UNIT.**
33. **COORDINATE REQUIRED ZONE IDENTIFICATION NUMBERS WITH BASE FIRE ALARM SHOPS.**
34. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FIRE ALARM / MASS NOTIFICATION SYMBOLS LEGEND

Symbol	Description
FACP FMCU	FIRE ALARM/MASS NOTIFICATION CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
DOC	DOCUMENTS PANEL
LOC	LOCAL OPERATOR CONSOLE WITH MICROPHONE AND PRERECORDED ANNOUNCEMENT SWITCHES
SS	SURGE SUPPRESSOR
TXT	SCROLLING TEXTURAL SIGN
F	MANUAL PULL STATION
CO	CARBON MONOXIDE DETECTOR
S	SMOKE DETECTOR
S	WALL SMOKE SENSOR (MOUNT TOP OF DEVICE 6" BELOW CEILING)
	DUCT SMOKE DETECTOR
CD	FIRE ALARM/MASS NOTIFICATION SPEAKER & STROBE COMBINATION (CLEAR LENS) (CEILING MOUNT) (CD = CANDELLA) ("ALERT" LETTERING)
	FIRE ALARM/MASS NOTIFICATION SPEAKER (CEILING MOUNT)
CD	FIRE ALARM/MASS NOTIFICATION STROBE (CLEAR LENS) (CEILING MOUNT) ("ALERT" LETTERING)
CD	FIRE ALARM/MASS NOTIFICATION SPEAKER & STROBE COMBINATION (CLEAR LENS) (WALL MOUNT) (CD = CANDELLA) ("ALERT" LETTERING)
	FIRE ALARM/MASS NOTIFICATION SPEAKER (WALL MOUNT)
CD	FIRE ALARM/MASS NOTIFICATION STROBE (CLEAR LENS) (WALL MOUNT) ("ALERT" LETTERING)
	8"Ø FIRE SPRINKLER ELECTRIC ALARM BELL
WF	WATER FLOW DETECTOR (WET SYSTEM) OR PRESSURE SWITCH (DRY SYSTEM)
TS	TAMPER SWITCH
KB	KNOX BOX
A	ANTENNA
WP	WEATHER PROOF

LITTLE ROCK A.F.B. ARKANSAS

MARK	DESCRIPTION	DATE

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NORTH LITTLE ROCK AIR FORCE BASE

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LRAFB B718 DORM

FIRE ALARM NOTES AND LEGEND

SHEET ID

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