

# REPLACE FIRE ALARM SYSTEM, INFRASTRUCTURE CHILlicothe CORRECTIONAL CENTER (Chillicothe, Missouri)

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OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR  
  
DEPARTMENT OF  
CORRECTIONS

PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: FSC Inc

PROJECT NUMBER: C2326-01

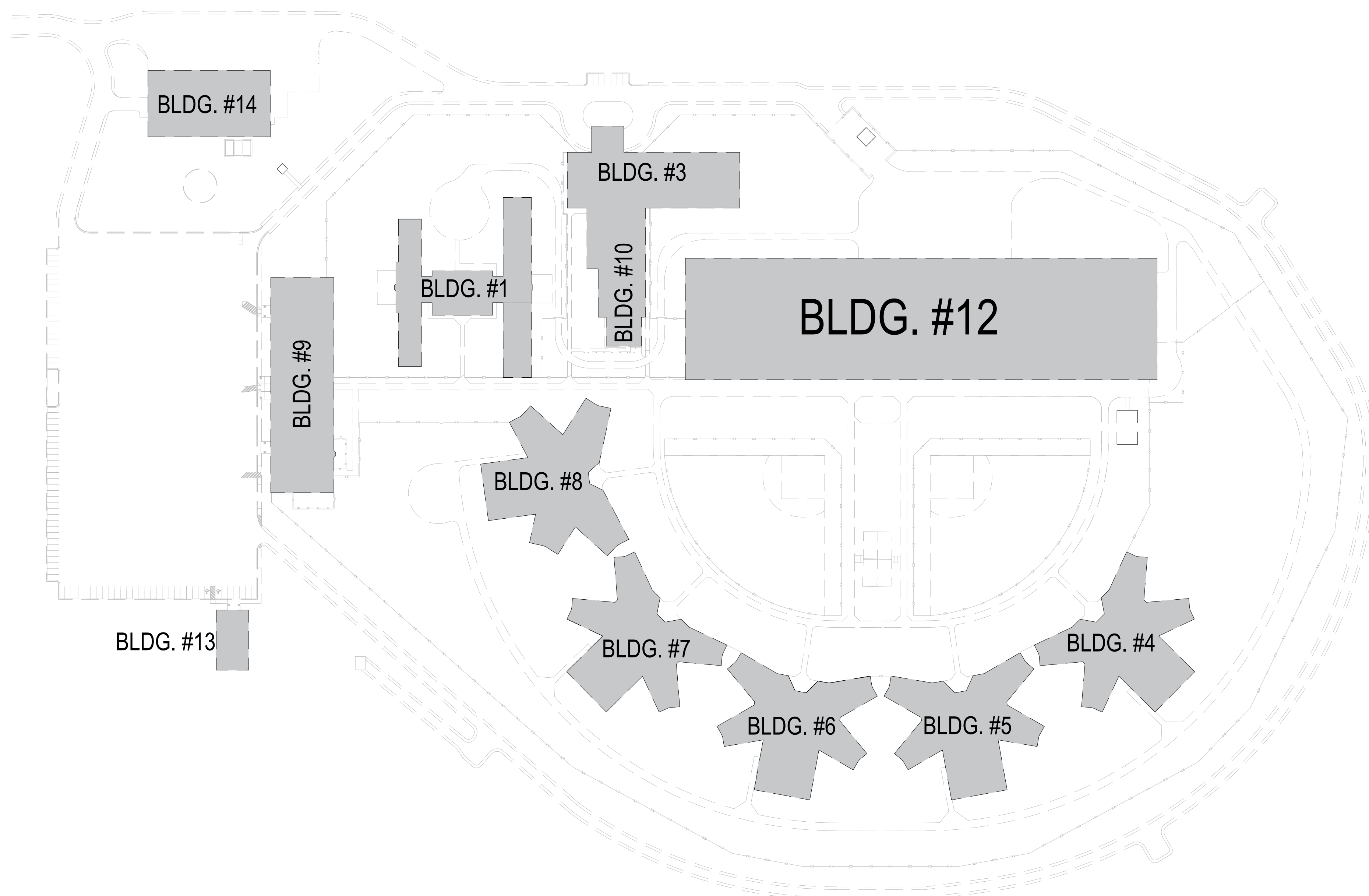
SITE NUMBER: 7030  
ASSET NUMBER: 9327030038



REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.

# CHILLICOTHE CORRECTIONAL CENTER

CHILLICOTHE, MISSOURI



SHEET INDEX	
SHEET NUMBER	SHEET NAME
FA-000	COVER SHEET
FA-001	FIRE ALARM SITE PLAN
FA-002	FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
FA-003	FIRE ALARM SCHEMATIC DETAILS
FA-100	BUILDING #1 - FIRE ALARM PLAN
FA-200	BUILDING #3 & #10 - FIRE ALARM PLAN
FA-300	BUILDING #4 - #7 - FIRE ALARM PLAN
FA-400	BUILDING #8 - FIRE ALARM PLAN
FA-500	BUILDING #9, #13, & #14 - FIRE ALARM PLAN
FA-600	BUILDING #12 AREA A - FIRE ALARM PLAN
FA-601	BUILDING #12 AREA B - FIRE ALARM PLAN
FA-602	BUILDING #12 AREA C - FIRE ALARM PLAN
FAD-100	BUILDING #1 - FIRE ALARM DEMO PLAN
FAD-200	BUILDING #3 & #10 - FIRE ALARM DEMO PLAN
FAD-300	BUILDING #4 - #7 - FIRE ALARM DEMO PLAN
FAD-400	BUILDING #8 - FIRE ALARM DEMO PLAN
FAD-500	BUILDING #9, #13, & #14 - FIRE ALARM DEMO PLAN
FAD-600	BUILDING #12 AREA A - FIRE ALARM DEMO PLAN
FAD-601	BUILDING #12 AREA B - FIRE ALARM DEMO PLAN
FAD-602	BUILDING #12 AREA C - FIRE ALARM DEMO PLAN

BUILDING LEGEND	
BLDG #	BUILDING NAME
1	ADMINISTRATIVE SEGREGATION & MENTAL HEALTH BUILDING
3	RECEPTION, DIAGNOSTIC & MEDICAL BUILDING
4	HOUSING UNIT #1
5	HOUSING UNIT #2
6	HOUSING UNIT - TREATMENT UNIT
7	HOUSING UNIT - TRANSITIONAL UNIT
8	HOUSING UNIT - STEP DOWN UNIT
9	ADMINISTRATION & VISITATION BUILDING
10	RECEPTION, DIAGNOSTIC & MEDICAL BUILDING
12	CENTRAL SERVICES BUILDING
13	STAFF TRAINING BUILDING
14	CENTRAL PLANT / VEHICLE MAINTENANCE / STORAGE



OFFICE OF ADMINISTRATION  
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3151 LITTON ROAD  
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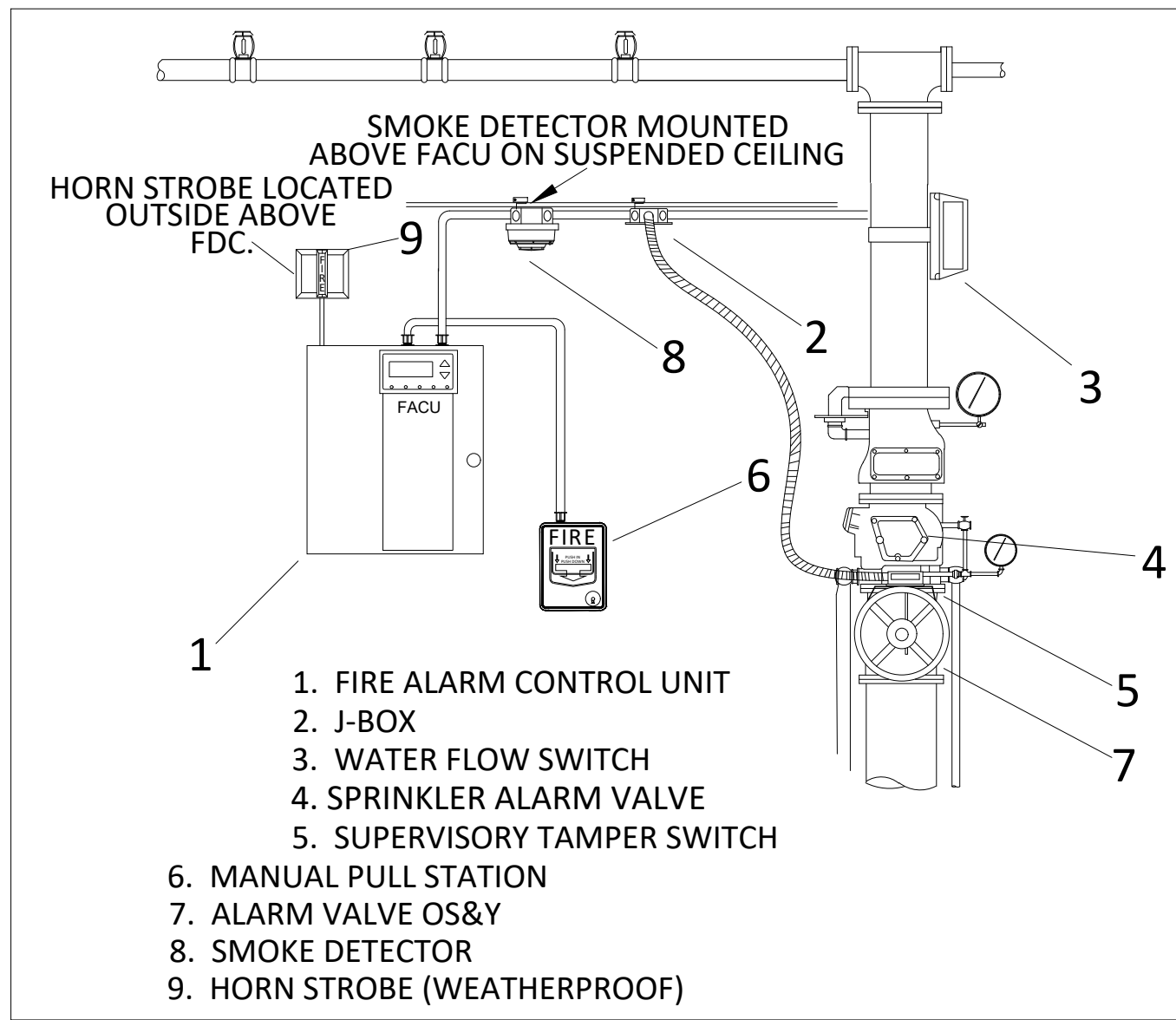
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DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
FIRE ALARM SITE PLAN

SHEET NUMBER:  
FA-001







**GENERAL NOTES**

- INSTALLATION CONTRACTOR SHALL MAINTAIN A LEGIBLE AND ACCURATE SET OF AS-BUILT (MARKED-UP) DRAWINGS FOR RECORD DRAWING PURPOSES AND PROVIDE AS-BUILT PLANS TO FSC, INC. TO ALLOW PROPER RECORD KEEPING BY FSC INC. ENGINEERING DEPARTMENT.
- INSTALLATION CONTRACTOR SHOULD BE FAMILIAR WITH CURRENT STANDARDS OF NFPA 72, NFPA 70, IBC, AND LOCAL CODE REQUIREMENTS. THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE CODES, STANDARDS, LOCAL AMENDMENTS AND MANUFACTURER'S SPECIFICATIONS.
- THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BEGIN UNTIL THE DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER OR RECORD AND THE AUTHORITY HAVING JURISDICTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY LOCATIONS, DEPTHS, ELEVATIONS, AND SIZES OF THE EXISTING SYSTEMS THAT SHALL BE REPLACED. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL WIRING, ETC. AT THE TIME OF BID. CONTRACTOR SHALL BE AWARE OF THE FULL EXISTING PROJECT CONDITIONS AT TIME OF BID.
- FIRE ALARM SYSTEMS AND NETWORK SHALL BE NON-PROPRIETARY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONDUITS, BOXES, ETC. AND FIBER FROM THE FACU TO EACH BUILDING'S FIBER PATCH PANEL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TERMINATIONS AND PROGRAMMING, INCLUDING FIBER MODULES (SINGLE MODE OR MULTIMODE) AND PROGRAMMING.
- CONTRACTOR SHALL INTERFACE WITH INTERNAL SITE IT SYSTEM TO ESTABLISH ANY ADDRESSES, ETC. TO COMPLETE THE SYSTEM.
- ALL OF CAMPUS BUILDINGS AND FIRE ALARM (FA) SYSTEM STATUS. (SPEC: A MONITOR SHALL BE LOCATED IN THE MAIN GUARD STATION, DEDICATED TO THE FA SYSTEM THAT ALLOWS SECURITY TO MONITOR EACH BUILDING AT A GLANCE. A TROUBLE OR ALARM IN ANY BUILDING OR FACU WILL ACTIVE A NONFICTION ON THE SCREEN AND PROVIDE AUDIBLE NOTIFICATION (SONALERT OR SIMILAR) THAT THERE IS AN ISSUE AT XX BUILDING.
- THE CONTRACTOR IS RESPONSIBLE FOR CONNECTING AND INTEGRATING ALL FIRE ALARM UNITS INTO THE CAMPUS NETWORK. THE CONTRACTOR SHALL COORDINATE WITH THE STATE'S REPRESENTATIVES TO OBTAIN IP ADDRESSES AND OTHER REQUIRED INFORMATION FOR NETWORK PROGRAMMING. THE CONTRACTOR SHALL PROGRAM OR ENGAGE A SUBCONTRACTOR TO PROGRAM THE CAMPUS NETWORK SO ALL NEW FACPS REPORT THE MAIN FACU THAT IS TO BE LOCATED IN THE ADMINISTRATIVE BUILDING'S MAIN SECURITY OFFICE WHERE INDICATED ON THE DRAWINGS.
- ENGAGE SPRINKLER CONTRACTOR AS NECESSARY TO REPLACE SPRINKLER MONITORING EQUIPMENT.
- AC POWER FOR ALL FIRE ALARM CONTROL PANELS SHALL BE 120VAC, 50/60 HZ, 20 AMPS. WIRE SHALL BE MINIMUM 12 AWG WITH 600V INSULATION.
- THE LOCATION OF THE DEDICATED BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT.
- 120VAC CIRCUITS SHALL BE RUN IN SEPARATE CONDUIT.
- ALL NON-POWER LIMITED WIRING SHALL HAVE A MINIMUM OF A 1/4" SEPARATION FROM POWER LIMITED WIRING.
- ALL WIRING AND/OR CABLES SHALL BE ROUTED IN CONDUIT AND FIRE ALARM RATED.
- TEE-TAPPING IS ONLY PERMISSIBLE ON CLASS 'B' SLC CIRCUITS.
- ALL FIRE ALARM DEVICES AND WIRING SHALL BE PROPERLY LABELED WITH DEVICE AND WIRING IDENTIFICATION. RECOMMEND LABELING ALL DEVICES WITH A GOOD LABEL, MAKER PRODUCT.
- A BREAKER LOCK SHOULD BE INSTALLED AT THE ELECTRICAL PANEL ON THE BRANCH CIRCUIT FEEDING ANY FIRE ALARM PANEL. MUST BE IDENTIFIED BY RED AND LABELED AS SERVING THE FIRE ALARM SYSTEM.
- SET STROBES TO CANDELA NOTED ON PLAN SHEET.
- REFER TO DEVICE INSTALLATION SHEETS FOR BACK BOX REQUIREMENTS.
- REFER TO DEVICE INSTALLATION SHEETS FOR REQUIREMENTS ON INSTALLING ALL EQUIPMENT.
- ALL CIRCUITS SHALL BE IDENTIFIED AT TERMINAL AND JUNCTION LOCATIONS WHICH WILL HELP PREVENT UNINTENTIONAL SIGNALS TO OCCUR ON THE SYSTEM.
- ALL WIRING CIRCUITS TO BE CHECKED FOR PROPER ELRD (END OF LINE RESISTOR DEVICE) READINGS. ALL GROUND FAULTS AND AND SHORTS SHALL BE ELIMINATED PRIOR TO FINAL ACCEPTANCE TESTING.
- INTEGRITY OF CIRCUIT SHALL BE TESTED TO VERIFY THAT WHEN THE SYSTEM IS IN AN ENERGIZED STATE THE SYSTEM WILL FUNCTION PROPERLY.
- ANY MODIFICATION MADE TO THE DEVICE LAYOUT, WIRING LAYOUT OR CONFIGURATION OF WIRING TO NOTIFICATION OR INITIATING DEVICES SHALL BE REVIEWED AND APPROVED BY AN FSC, INC. REPRESENTATIVE WHOSE DIRECT RESPONSIBILITY INCLUDES DESIGN AND ENGINEERING.
- SMOKE DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.
- SMOKE DETECTORS SHALL BE SPACED AS INDICATED ON THE DRAWINGS AND FOLLOW THE SPACING REQUIREMENTS SPECIFIED IN NFPA 72. ANY CHANGES IN SMOKE DETECTOR LAYOUT DUE TO OBSTRUCTIONS IN THE CEILING SHALL BE REVIEWED AND APPROVED BY AN FSC, INC. REPRESENTATIVE WHOSE DIRECT RESPONSIBILITY INCLUDES DESIGN AND ENGINEERING.
- FIRE SPRINKLER WATER FLOW AND VALVE TAMPER SWITCHES SHALL BE MONITORED BY THE FIRE ALARM SYSTEM (IF APPLICABLE).
- AIR HANDLER UNITS THAT ARE GREATER THAN 2000 CFM SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR IN THE RETURN DUCT. VERIFY LOCATION IN FIELD.
- NOTIFICATION APPLIANCE CIRCUITS ARE TO BE 14AWG 2 CONDUCTOR SOLID FPLR, FPLP, OR THHN WITH A MINIMUM OF 19 STRANDS AS REQUIRED. THHN WIRE MUST BE INSTALLED IN CONDUIT.
- SIGNALING LINE CIRCUITS ARE TO BE 18AWG 2 CONDUCTOR SOLID FPLR, FPLP (PLENUM RATED) CABLE OR 16AWG OR 18AWG THHN WIRE (MUST BE 7 STRAND OR LESS) AS REQUIRED. THHN WIRE MUST BE INSTALLED IN CONDUIT.
- AUDIO CIRCUITS ARE TO BE 14AWG 2 CONDUCTOR SOLID SHIELDED TWISTED PAIR FPLR OR FPLP (PLENUM RATED) AS REQUIRED.
- DO NOT "T-TAP" NOTIFICATION APPLIANCE CIRCUIT WIRING.
- LIMIT NOTIFICATION APPLIANCE CIRCUIT WIRING TO THE SHORTEST POSSIBLE DISTANCE TO ACHIEVE CIRCUIT OPERATION.
- ALL FIRE ALARM CABLE IS TO BE INSTALLED IN ACCORDANCE WITH ARTICLE 760 OF NFPA 70 NATIONAL ELECTRICAL CODE.
- PLENUM RATED CABLE MUST BE INSTALLED IN ALL PLENUM AREAS. RISERS NOT IN CONDUIT MUST USE FPLP CABLE WHEN PENETRATING MORE THAN ONE FLOOR.
- INPUT MODULE END OF LINE RESISTORS ARE BY MANUFACTURER INSTRUCTIONS.
- NOTIFICATION APPLIANCE END OF LINE RESISTORS ARE BY MANUFACTURER INSTRUCTIONS. WHERE POSSIBLE, ALWAYS USE OEM SUPPLIED RESISTORS. WHERE OEM SUPPLIED RESISTORS ARE NOT AVAILABLE, USE RESISTOR COLOR CODE TO SELECT THE PROPER RESISTOR, MATCHING VALUES TO OEM SUPPLIED RESISTOR.
- A SMOKE DETECTOR SHALL BE PROVIDED ABOVE ALL FIRE ALARM CONTROL UNITS.
- WALL MOUNT NOTIFICATION DEVICES SHALL BE INSTALLED AT 80" A.F.F. TO THE BOTTOM OF THE BOX.
- MANUAL PULL STATIONS SHALL BE INSTALLED AT A MINIMUM 42" A.F.F. AND NOT GREATER THAN 48" TO THE OPERATING MECHANISM.
- WHERE (2) OR MORE STROBES ARE VISIBLE THEY WILL BE SYNCHRONIZED.
- ALL NEW REQUIRED CABLING SHALL HAVE INDEPENDENT SUPPORTS.
- PROVIDE AUDIBILITY SOUND LEVEL OF 70 dBA THROUGHOUT THE AREA OF WORK.
- CONTRACTOR SHALL COORDINATE WITH ALL OTHER MEP TRADES (MECHANICAL/ELECTRICAL/PLUMBING) FOR EXACT LOCATION OF CEILING / WALL MOUNTING OF FIRE ALARM DEVICES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM SPACES FOR SUSPENDED CEILINGS, DETECTORS ABOVE SUSPENDED CEILINGS SHALL CONFORM TO NFPA 72.
- EXISTING WIRING SHOWN IN THE DRAWINGS WAS PROVIDED BY THE STATE OF MISSOURI IN THE FORM OF AS BUILT DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING WIRING.
- FSC, INC. SHALL BE NOTIFIED OF COMMISSIONING OF THE SYSTEM AND SHALL BE PROVIDED ALL DOCUMENTATION WITH RESPECT TO SYSTEM COMMISSIONING AND AHJ ACCEPTANCE.
- DESIGN IS IN ACCORDANCE WITH CODES AND STANDARDS LISTED AND THE AHJ OF THE STATE OF MISSOURI. NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE - 2022 UL STANDARD 864 - STANDARD FOR CONTROL UNITS AND ACCESSORIES FOR FIRE ALARM SYSTEMS UL STANDARD 268 - STANDARD FOR SMOKE DETECTORS FOR FIRE ALARM SYSTEMS NEC 70 - NATIONAL ELECTRICAL CODE

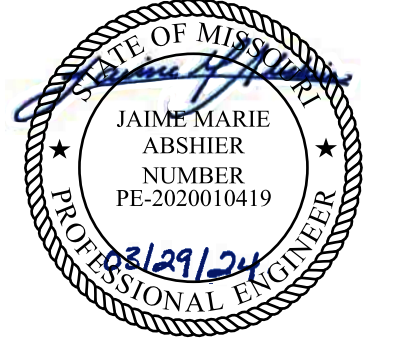
**FIRE ALARM SYMBOL LEGEND**

SYMBOL	DESCRIPTION
[FACU]	ADDRESSABLE FIRE ALARM CONTROL PANEL 12V 7AH BATTERY
[NAC]	INTELLIGENT NOTIFICATION POWER SUPPLY
[ANN]	FIRE ALARM ANNUNCIATOR
[PAD]	FIRE ALARM REMOTE EXTENDER PANEL
[VDM]	VIDEO DISPLAY UNIT WITH LCD MONITOR, KEYBOARD, AND PRINTER
[DDBOX]	FIRE ALARM DOCUMENT BOX
[MPS]	MANUAL PULL STATION
[SD]	ADDRESSABLE SMOKE DETECTOR
[CD]	ADDRESSABLE CARBON MONOXIDE DETECTOR
[SDM]	ADDRESSABLE SMOKE DETECTOR
[HD]	ADDRESSABLE HEAT DETECTOR
[DSM]	DUCT SMOKE DETECTOR
[RT]	REMOTE TEST STATION
[IMM]	DUEL OR SINGLE INPUT MODULE(S)
[CM]	CONTROL MODULE
[FJ]	FIRE ALARM JUNCTION BOX
[HNS]	FIRE ALARM HORN STROBE
[HS]	FIRE ALARM STROBE
[HH]	FIRE ALARM HORN
[WB]	FIRE ALARM WATERFLOW BELL
[FSR]	FIRE SPRINKLER RISER
[WFS]	WATERFLOW SWITCH
[TS]	TAMPER SWITCH
[ELR]	END OF LINE RESISTOR
[X]	X: NO. OF WIRES, Y: AWG. SIZE

**FIRE ALARM ABBREVIATIONS LEGEND**

ABBREVIATION	DESCRIPTION
EX	EXISTING DEVICE
BAS	BUILDING AUTOMATION SYSTEM
R	RELOCATION OF EXISTING DEVICE
C	CELLING MOUNTED DEVICE
WG	END OF LINE
PC	PULL STATION COVER
WP	WEATHERPROOF DEVICE
EP	EXPLOSION PROOF DEVICE
dB	DECIBLE (UNIT FOR SOUND PRESSURE)
LF	LOW FREQUENCY
SB	SOUNDER BASE
HT	HIGH TEMPERATURE
AHU	AIR HANDLING UNIT
RTU	ROOF TOP UNIT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UNO	UNLESS NOTED OTHERWISE
NIC	NOT IN CONTRACT
HVLS	HIGH VOLUME LOW SPEED
HVAC	HIGH VOLTAGE AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
NAC	NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LINE CIRCUIT
SBUS	SERIAL BUS
RDP	REMOTE DISPLAY
SPK	SPEAKER CIRCUIT
PWR	AUXILIARY POWER
FBUS	VOICE BUS
FDC	FIRE DEPARTMENT CONNECTION
NTS	NOT TO SCALE
EOL	END OF LINE
UG	UNDERGROUND
VAC	ALTERNATING CURRENT VOLTAGE
VDC	DIRECT CURRENT VOLTAGE
EMT	ELECTRICAL METALLIC TUBING
WG	WIRE GUARD

STATE OF MISSOURI  
MICHAEL L. PARSON,  
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PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

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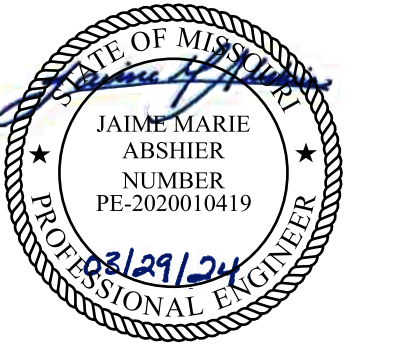
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CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS**

SHEET NUMBER:  
FA-002

ALARM CAUSE		SYSTEM ANNUNCIATION AND RESPONSES TO ALARMS																		NOTES:	
		FIRE ALARM CONTROL PANEL			REMOTE ANNUNCIATOR			NOTIFY MONITORING STATION			PUBLIC VISUALS		PUBLIC AUDIBLES		HVAC		AUTOMATIC DOOR RELEASE				
		ALM	TRB	SUP	RECORD EVENT IN SYSTEM MEMORY	RECORD EVENT BY SYSTEM PRINTER	ALM	TRB	SUP	ALM	TRB	SUP	ON	OFF	ON	OFF	ACTIVATE HVAC SHUT DOWN	CLOSE ASSOCIATED SMOKE DAMPERS	AUTOMATIC DOOR RELEASE UPON ALARM SIGNAL		AUTOMATIC DOOR RELEASE UPON A/C POWER LOSS
GENERAL ALARM CONDITIONS	AREA SMOKE DETECTOR	●			●	●	●			●			●		●			●		AS INDICATED ON PLANS	
	AREA HEAT DETECTOR	●			●	●	●			●			●		●			●		AS INDICATED ON PLANS	
	MANUAL PULL STATION	●			●	●	●			●			●		●			●		DUAL ACTION TYPE WITH STOPPER II	
	DUCT SMOKE DETECTOR (HVAC)	●			●	●	●			●			●		●			●		GLOBAL HVAC SHUTDOWN	
	DUCT SMOKE DETECTOR (CELL)	●			●	●	●			●			●		●			●			
PWR. & WIRE CONDITIONS	SPRINKLER WATERFLOW	●			●	●	●			●			●		●			●		SPRINKLER WATERFLOW	
	SPRINKLER TAMPER SWITCH			●	●	●			●			●		●					●	SPRINKLER TAMPER SWITCH	
	AC POWER FAILURE		●		●	●		●											●	AUTOMATIC DOOR RELEASE	
	SINGLE LINE CIRCUIT (SLC) SINGLE OPEN, GROUND, OR SHORT		●		●	●		●													(SLC) - CLASS B/STYLE 4
	INITIATING DEVICE CIRCUIT (HTRI) SINGLE OPEN, GROUND, OR SHORT		●		●	●		●													(IDC) - CLASS B/STYLE B
	NOTIFICATION APPLIANCE CIRCUIT (NAC) SINGLE OPEN, GROUND, OR SHORT		●		●	●		●													(NAC) - CLASS B/STYLE Y
	COMM. FAULT		●		●	●		●													
LOW BATTERY		●		●	●		●														
RESET & SILENCE	SIGNAL SILENCE (AUDIBLES OFF)				●								●		●						
	SYSTEM RESET				●								●		●						





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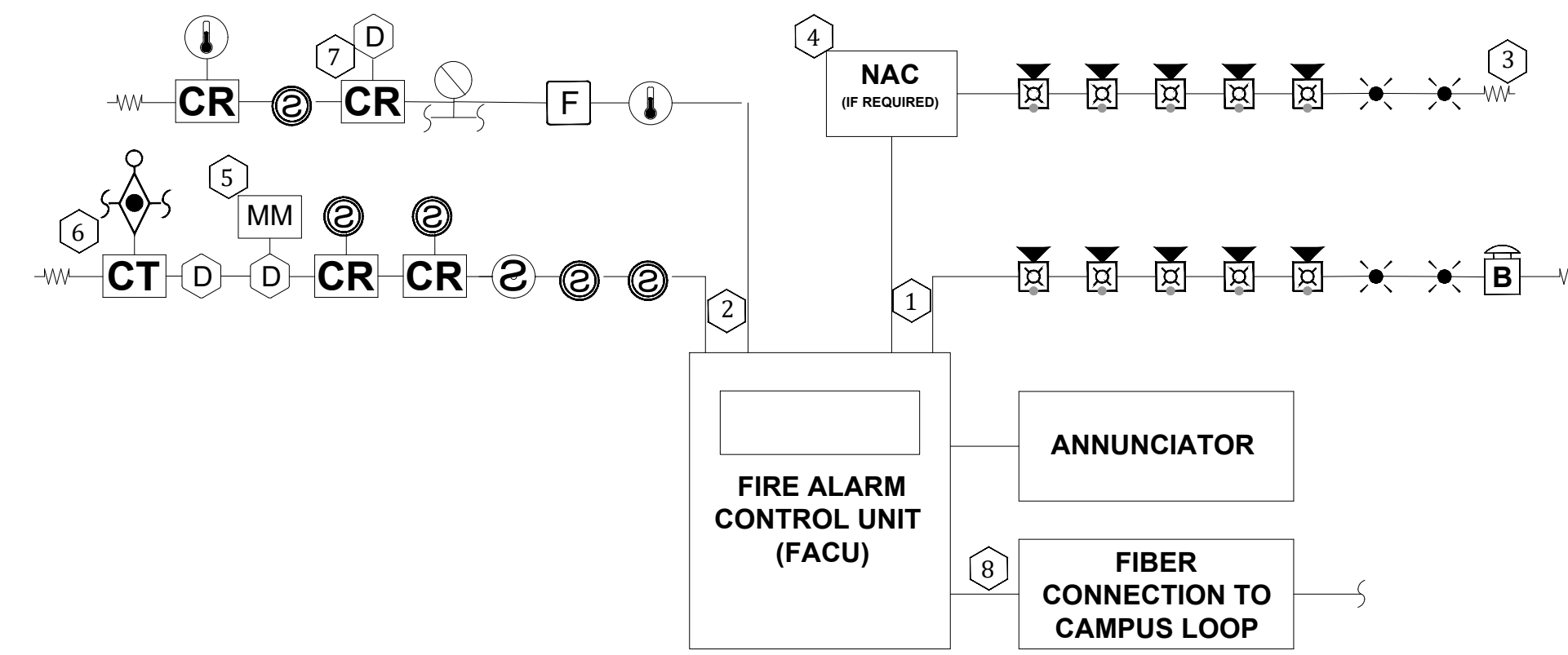
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CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**FIRE ALARM  
SCHEMATIC DETAILS**

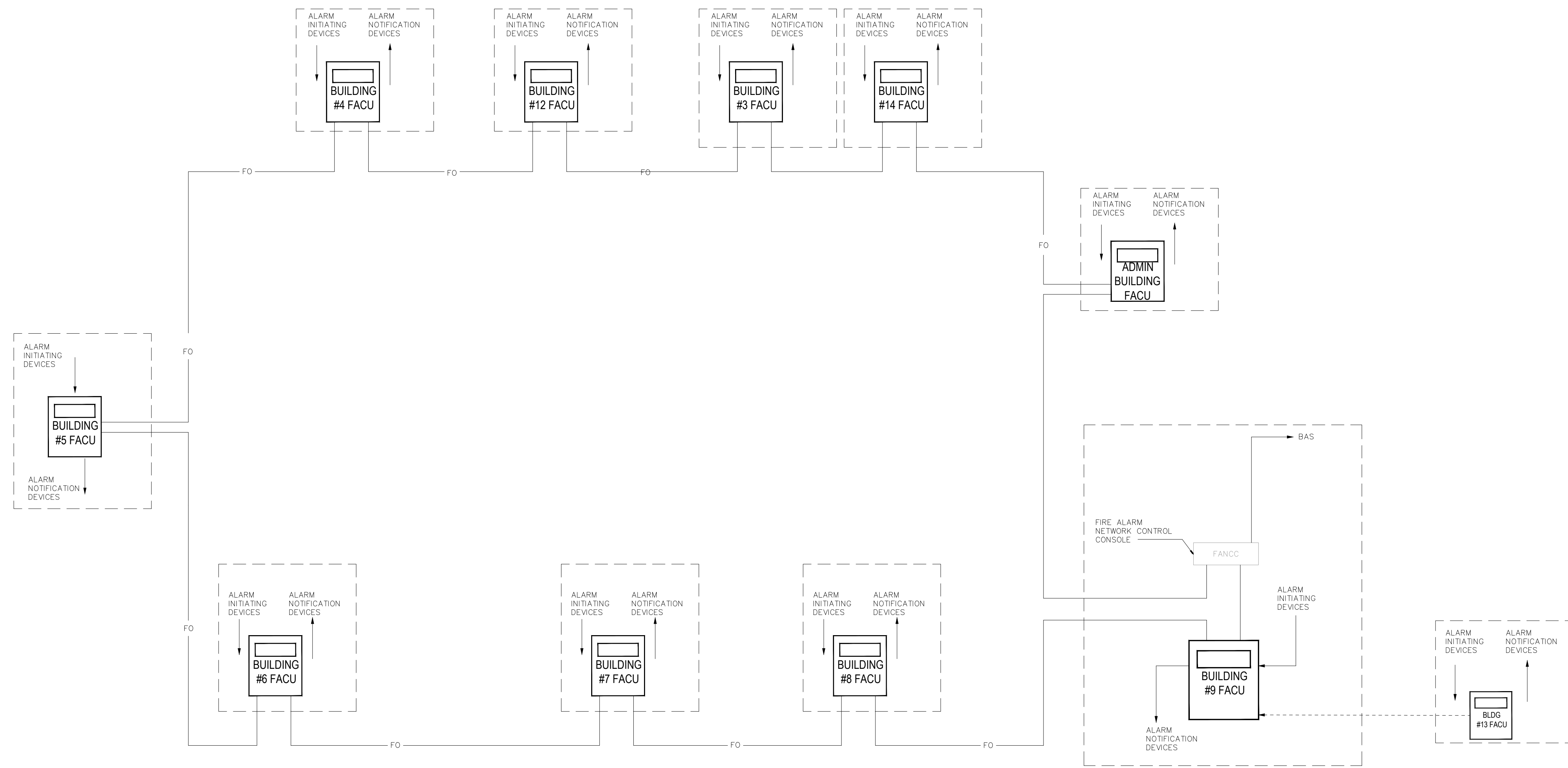
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**FA-003**



**1** TYPICAL FIRE ALARM RISER DIAGRAM  
N.T.S.

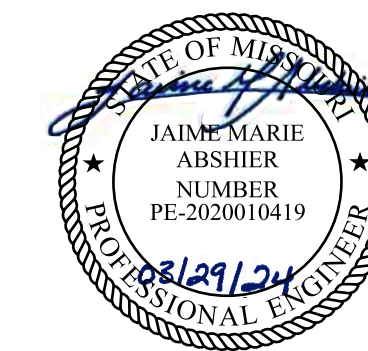
**FIRE ALARM RISER KEYED NOTES**

- 1 TYPICAL NAC CIRCUITS.
- 2 TYPICAL INITIATION DEVICE CIRCUITS.
- 3 TYPICAL END OF LINE RESISTOR.
- 4 NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL. PROVIDE QUANTITY AS NECESSARY. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 5 PROVIDE A REMOTE TEST STATION FOR DUCT MOUNTED SMOKE DETECTORS NOT ACCESSIBLE FROM THE FINISHED FLOOR IN A SECURE LOCATION. VERIFY FINAL LOCATION WITH OWNER.
- 6 MONITOR MODULES FOR WATER FLOW SWITCH ON FIRE PROTECTION SYSTEM.
- 7 WIRING TO SMOKE DAMPER CONTROL.
- 8 CONNECT FACU TO FIBER BACKBONE OF CAMPUS NETWORK AT LOCATION PROVIDED WITHIN BUILDING.



**2** CAMPUS FIBER CONNECTIVITY DIAGRAM  
N.T.S.





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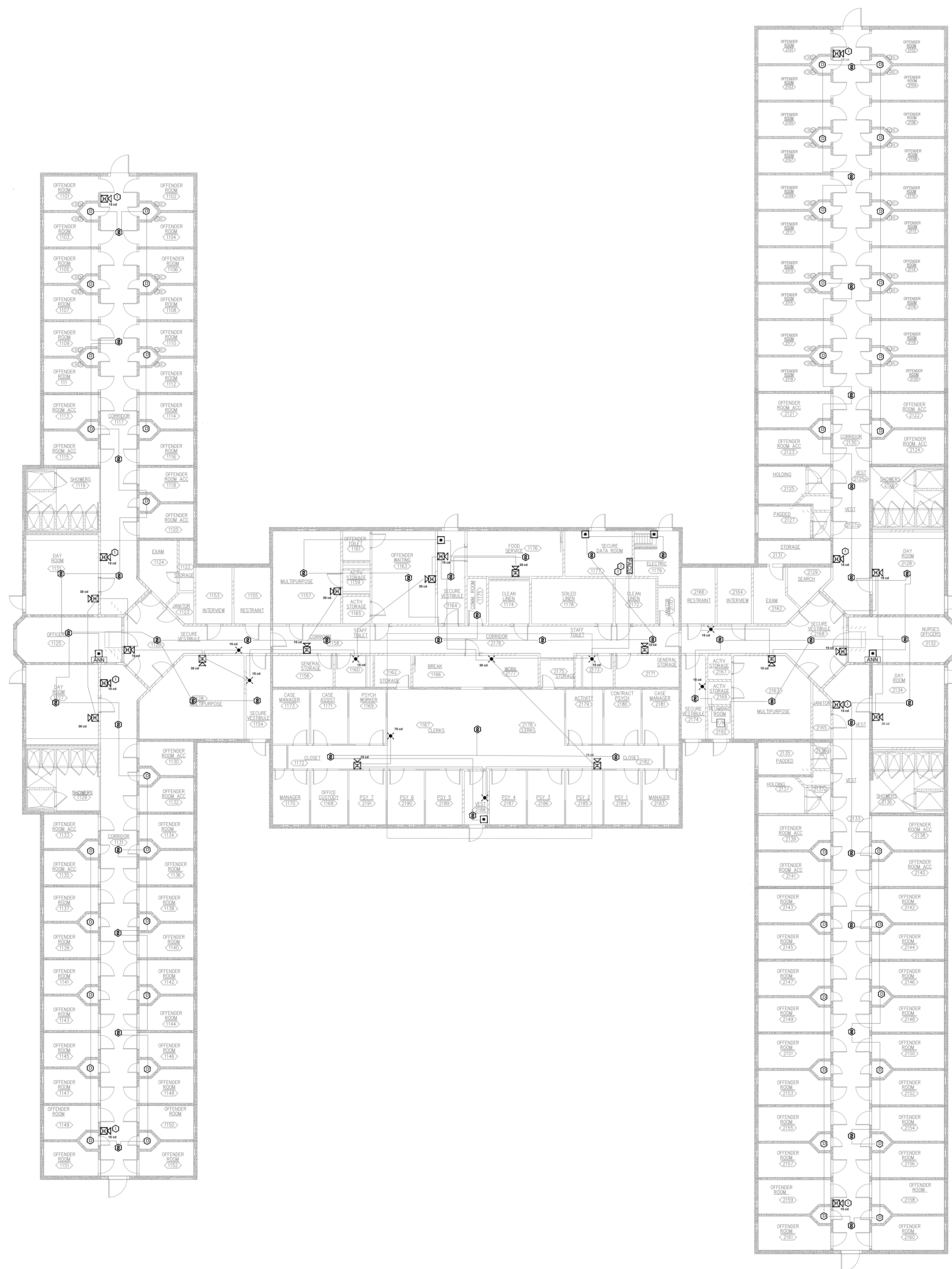
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CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #1 - FIRE  
ALARM PLAN**

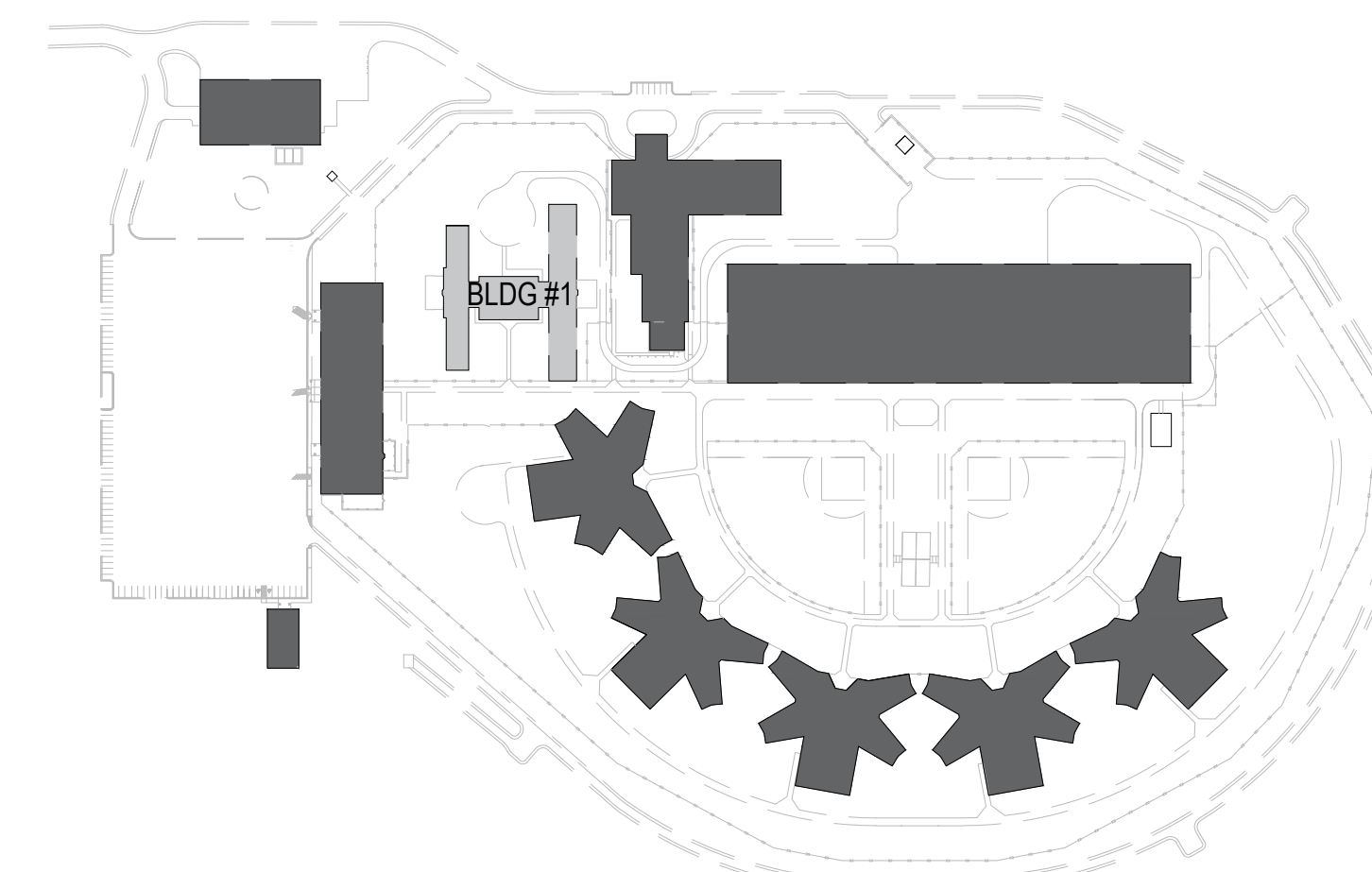
SHEET NUMBER:  
FA-100

KEY NOTES

- 1 ADDED NOTIFICATION APPLIANCE TO MEET THE REQUIREMENTS OF NFPA 72
- 2 FIRE ALARM CONTROL UNIT. TIE INTO CAMPUS FIBER NETWORK TO REPORT BACK TO ADMIN FACU.
- 3 FIELD VERIFY EQUIPMENT BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.

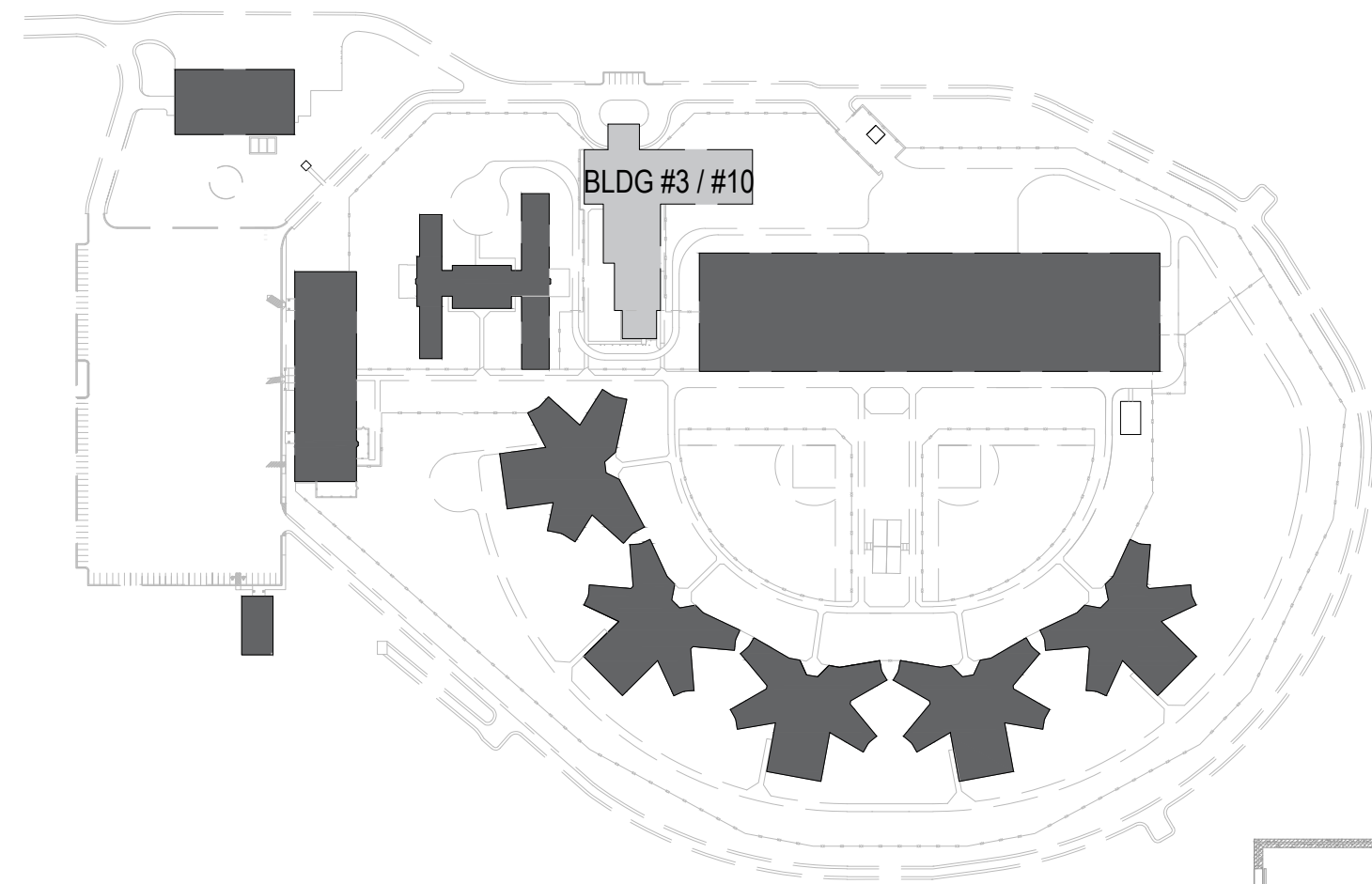


**1 BUILDING #1 - FIRE ALARM PLAN**  
SCALE: 1/16" = 1'-0"

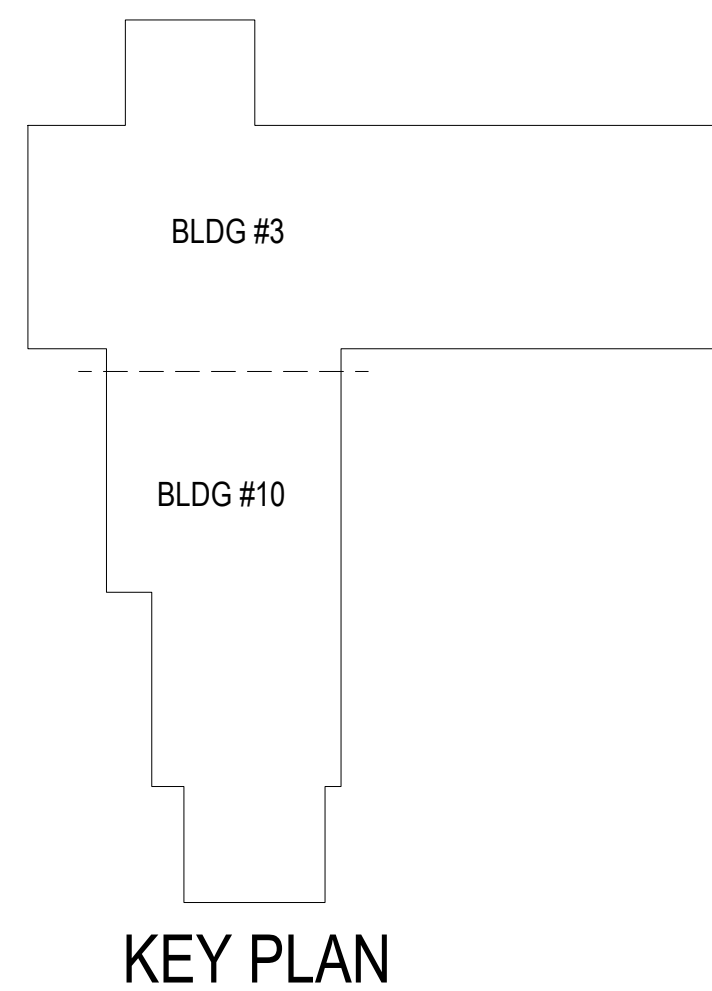


AREA PLAN





AREA PLAN

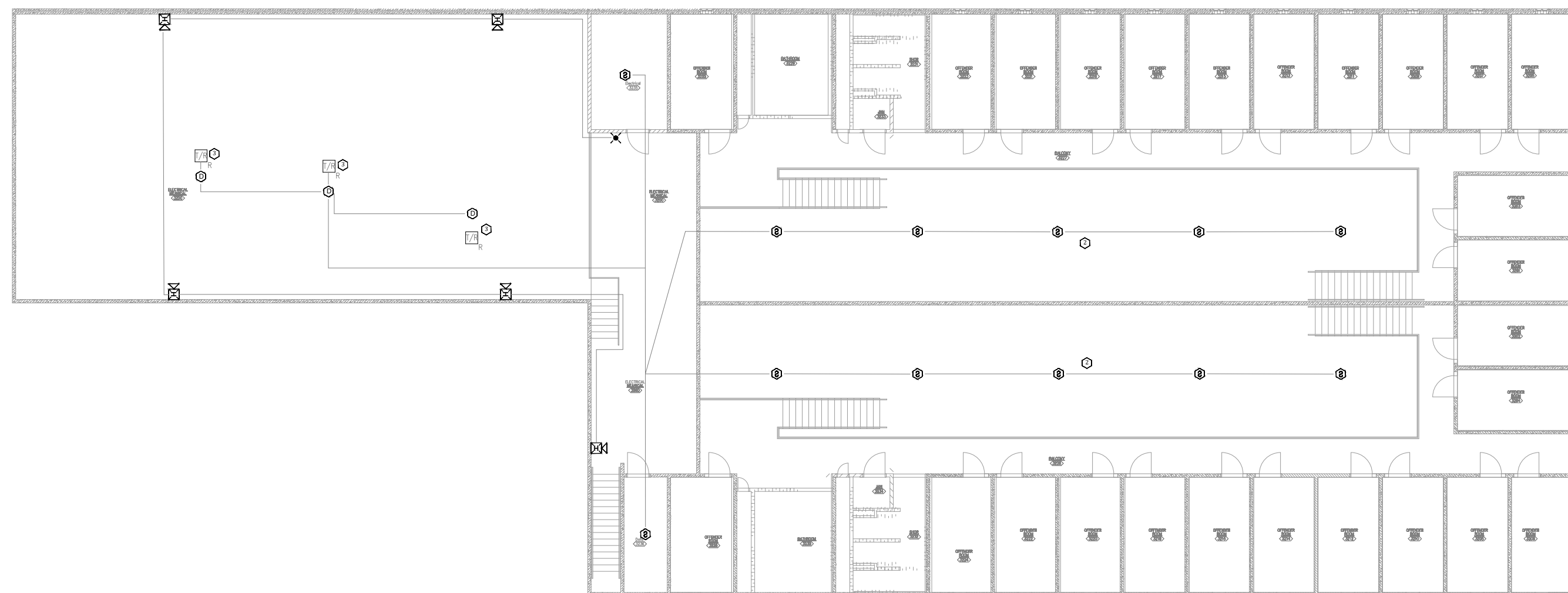


KEY PLAN



REFER TO FA200 DETAIL 3

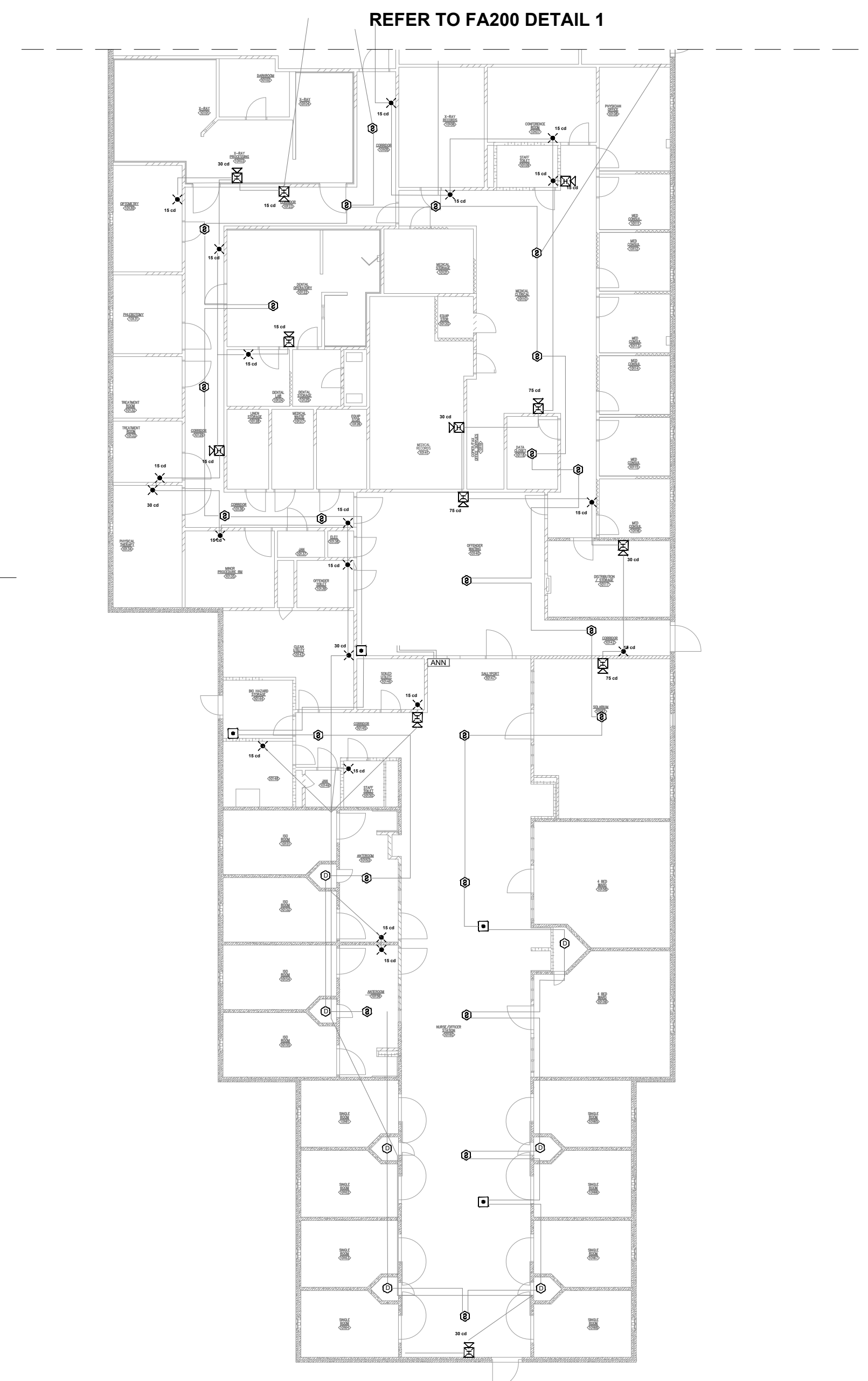
1 BUILDING #3 - FIRE ALARM FIRST FLOOR PLAN  
SCALE: 1/16" = 1'-0" NORTH



2 BUILDING #3 - FIRE ALARM SECOND FLOOR PLAN  
SCALE: 1/16" = 1'-0" NORTH

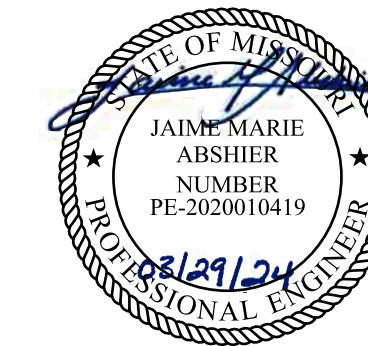
KEY NOTES

- 1 FIRE ALARM CONTROL UNIT. TIE INTO CAMPUS FIBER NETWORK TO REPORT BACK TO ADMIN FACU.
- 2 NOTIFICATION NOT PRESENT IN THIS AREA PER NFPA 72 SECTION 18.6 VISUAL NOTIFICATION IN PRIVATE MODE SHALL BE SUFFICIENT TO MEET THE INTENT OF THE USER. AREA IS UNDER SURVEILLANCE 24/7 WITH TRAINED STAFF TO EVACUATE OCCUPANT IF NEEDED. STAFF WILL BE NOTIFIED VIA ANNUNCIATOR AT THE 24/7 MANNED STATION.
- 3 FIELD VERIFY EQUIPMENT BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.
- 4 ADDED DETECTION APPLIANCE TO MEET THE REQUIREMENTS OF NFPA 72



REFER TO FA200 DETAIL 1

3 BUILDING #10 - FIRE ALARM PLAN  
SCALE: 1/16" = 1'-0" NORTH



REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.

OFFICE OF ADMINISTRATION  
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DESIGN AND CONSTRUCTION

REPLACE FIRE ALARM  
SYSTEM,  
INFRASTRUCTURE  
CHILLICOTHE  
CORRECTIONAL CENTER

3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

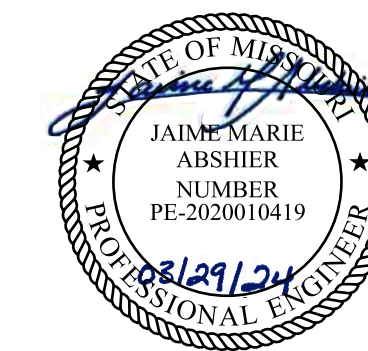
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

CAD DWG FILE: C2326-01-FA-FP-106  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
BUILDINGS #3 & #10 -  
FIRE ALARM PLAN

SHEET NUMBER:  
FA-200





REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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CORRECTIONAL CENTER

3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

CAD DWG FILE: C2326-01-FA-FP-107  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

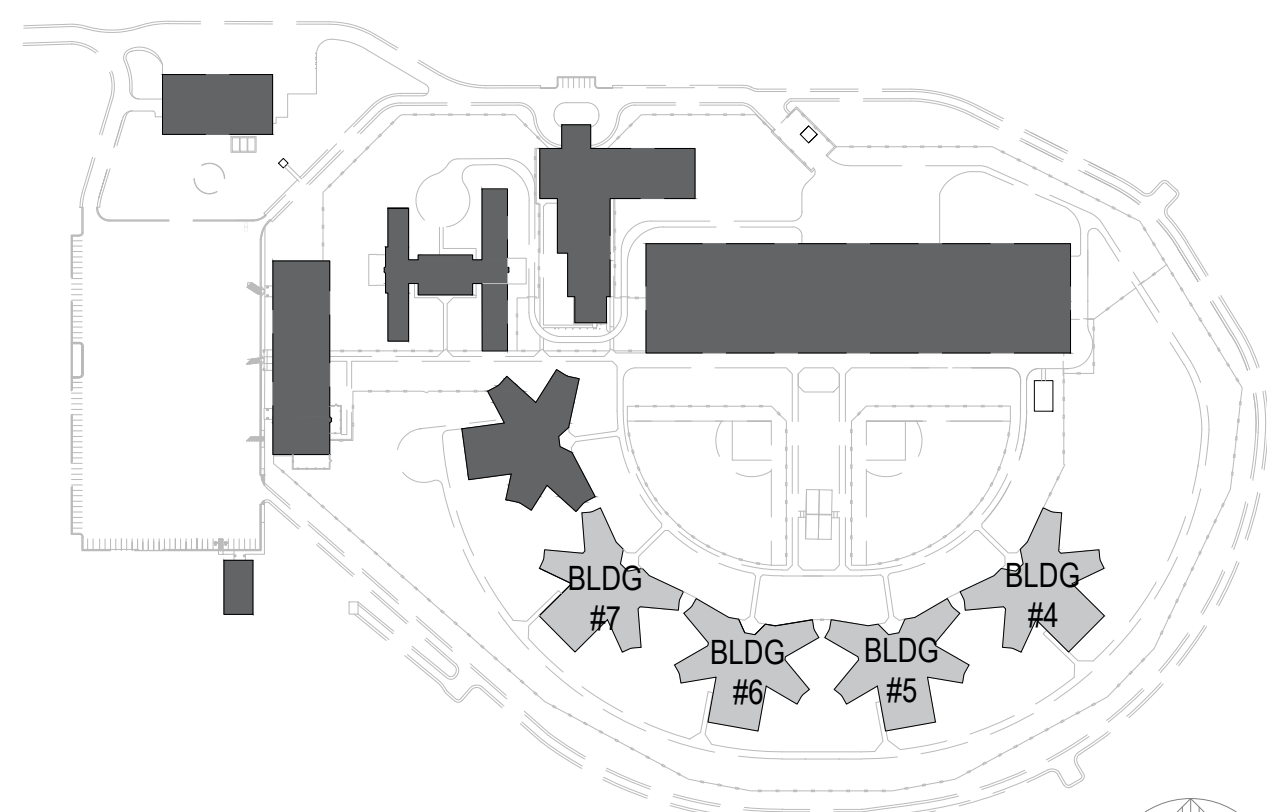
SHEET TITLE:  
**BUILDING #4 - #7 -  
FIRE ALARM PLAN**

SHEET NUMBER:  
FA-300

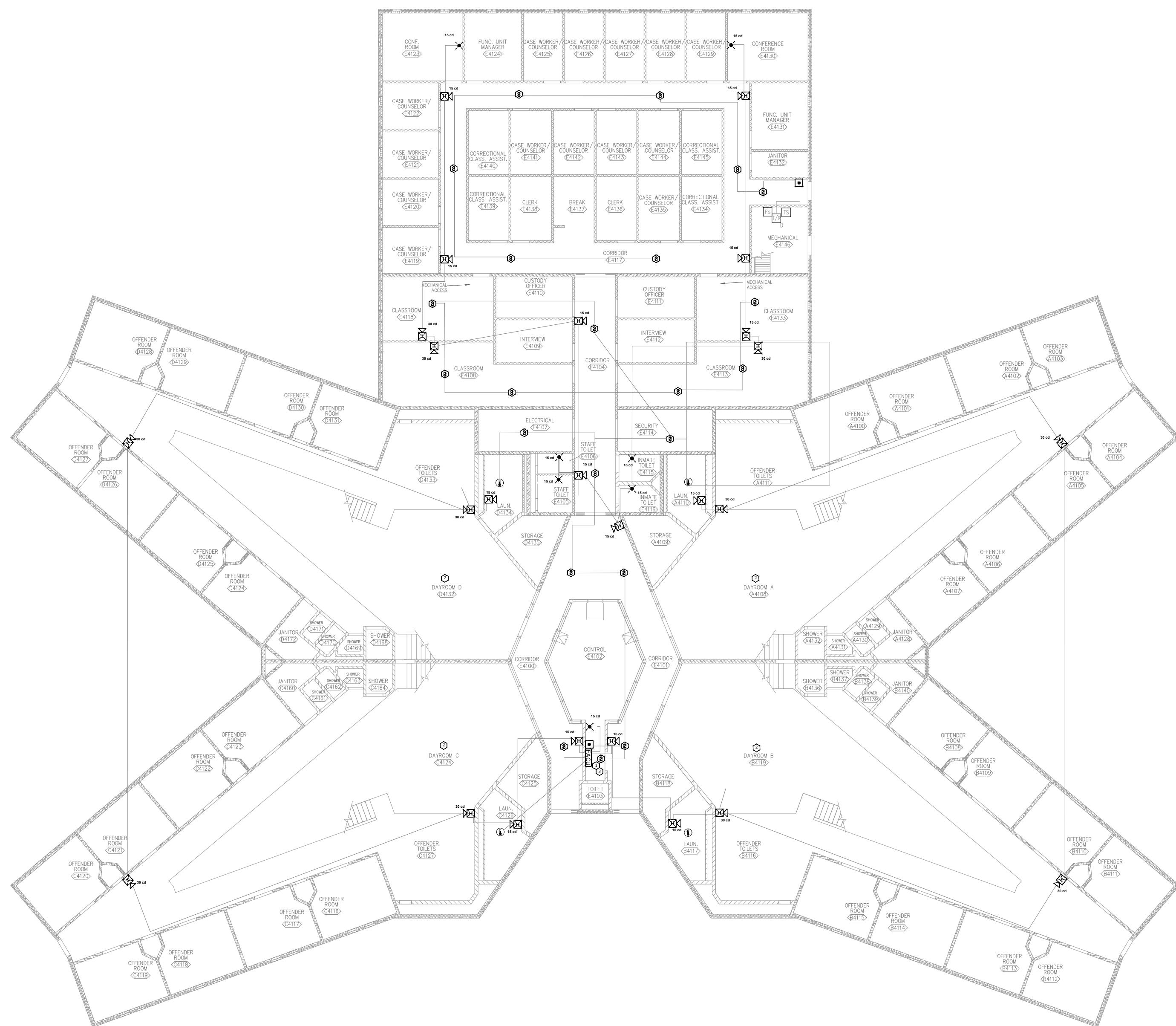
7 OF 20 SHEETS

KEY NOTES

- 1 FIRE ALARM CONTROL UNIT. TIE INTO CAMPUS FIBER NETWORK TO REPORT BACK TO ADMIN FACU.
- 2 NOTIFICATION NOT PRESENT IN THIS AREA PER NFPA 72 SECTION 18.6 VISUAL NOTIFICATION IN PRIVATE MODE SHALL BE SUFFICIENT TO MEET THE INTENT OF THE USER. AREA IS UNDER SURVEILLANCE 24/7 WITH TRAINED STAFF TO EVACUATE OCCUPANTS IF NEEDED. STAFF WILL BE NOTIFIED VIA ANNUNCIATOR AT THE 24/7 MANNED STATION.
- 3 FIELD VERIFY EQUIPMENT BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.
- 4 DUCT DETECTOR PROVIDED FOR MONITORING CELLS ON MEZZANINE LEVEL AND CELLS DIRECTLY BELOW ON 1ST FLOOR.

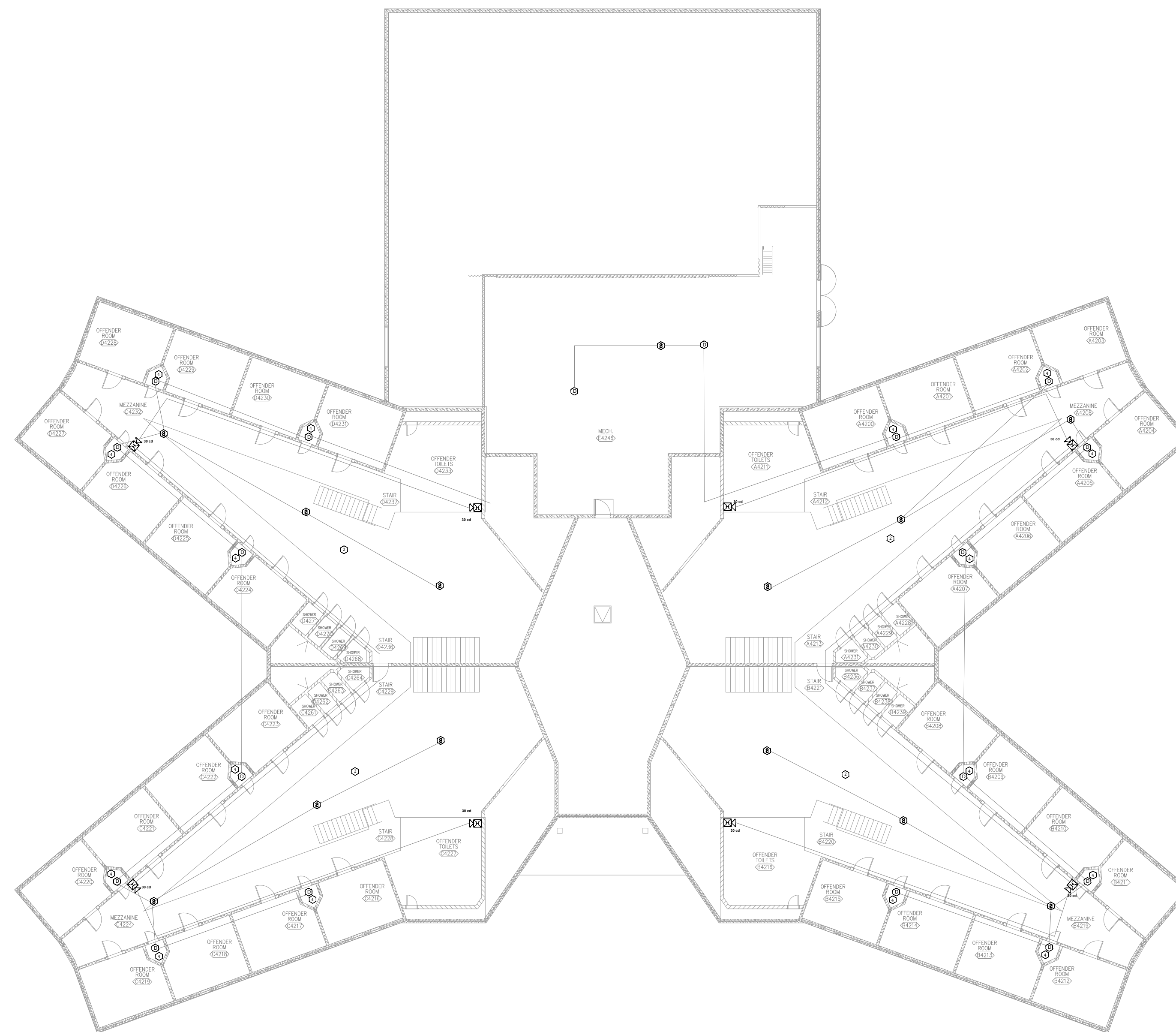
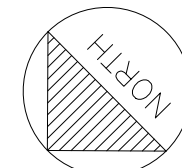


KEY PLAN



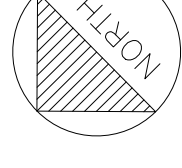
1 **BUILDING #4 - #7 - FIRE ALARM FIRST FLOOR PLAN**  
SCALE: 1/16" = 1'-0"

TYPICAL FOR BUILDING #4 THROUGH BUILDING #7  
NOTE: NORTH ARROW INDICATION FOR BUILDING #4, REFER TO KEY PLAN TO ORIENT NORTH FOR BUILDINGS #5-#7.

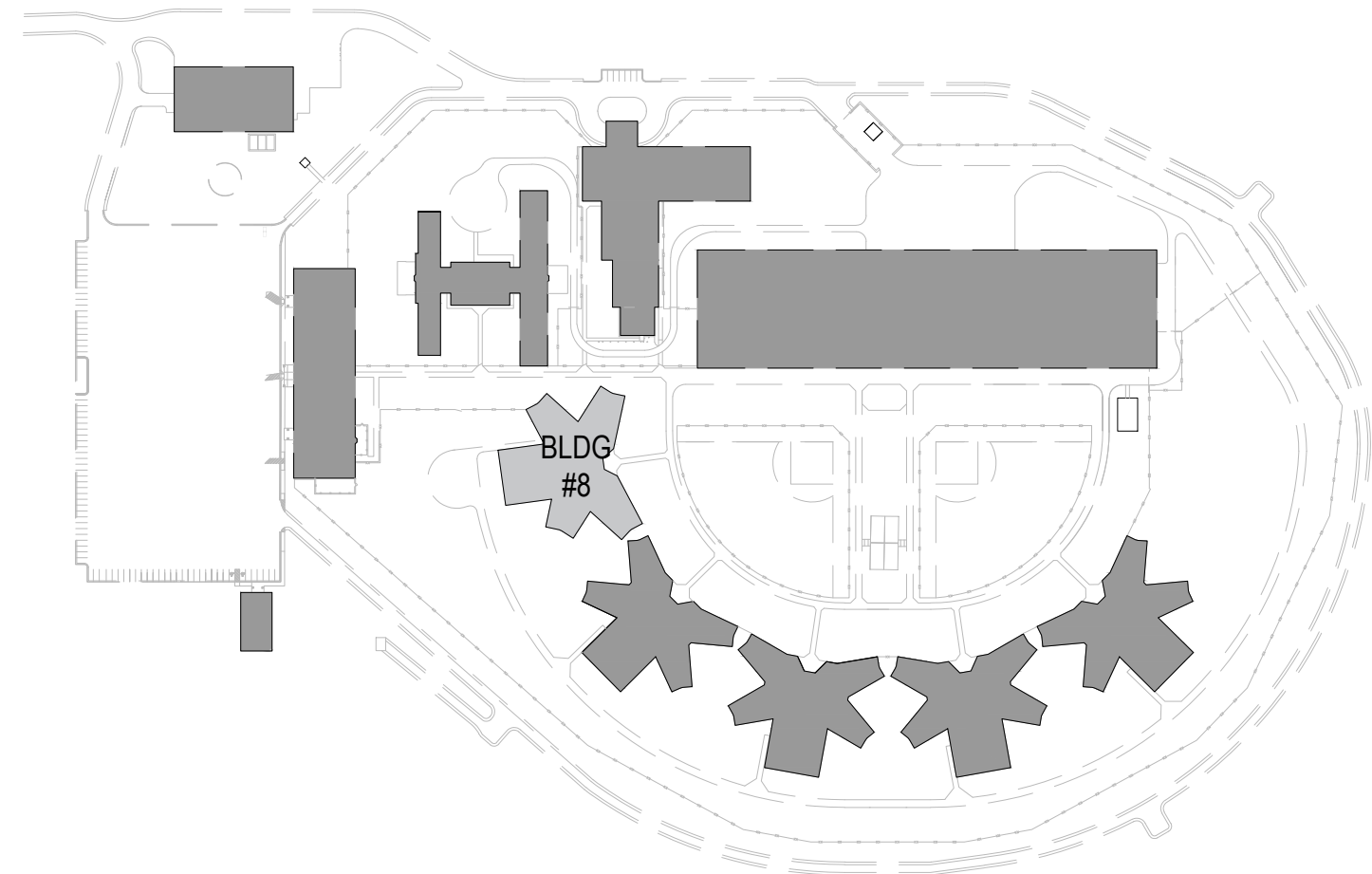


2 **BUILDING #4 - #7 - FIRE ALARM SECOND FLOOR PLAN**  
SCALE: 1/16" = 1'-0"

TYPICAL FOR BUILDING #4 THROUGH BUILDING #7  
NOTE: NORTH ARROW INDICATION FOR BUILDING #4, REFER TO KEY PLAN TO ORIENT NORTH FOR BUILDINGS #5-#7.



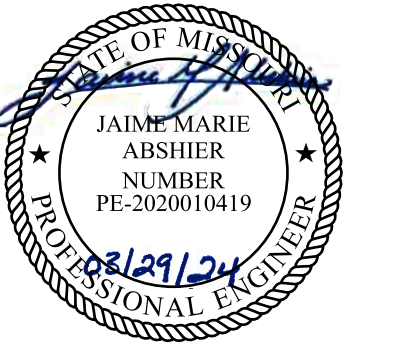




AREA PLAN

KEY NOTES

- 1 FIRE ALARM CONTROL UNIT. TIE INTO CAMPUS FIBER NETWORK TO REPORT BACK TO ADMIN FACU.
- 2 NOTIFICATION NOT PRESENT IN THIS AREA PER NFPA 72 SECTION 18.6 VISUAL NOTIFICATION IN PRIVATE MODE SHALL BE SUFFICIENT TO MEET THE INTENT OF THE USER. AREA IS UNDER SURVEILLANCE 24/7 WITH TRAINED STAFF TO EVACUATE OCCUPANTS IF NEEDED. STAFF WILL BE NOTIFIED VIA ANNUNCIATOR AT THE 24/7 MANNED STATION.
- 3 FIELD VERIFY EQUIPMENT BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.
- 4 DUCT DETECTOR PROVIDED FOR MONITORING CELLS ON MEZZANINE LEVEL AND CELLS DIRECTLY BELOW ON 1ST FLOOR.



REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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CORRECTIONAL CENTER

3151 LITTON ROAD  
CHILLICOTHE, MO 64601

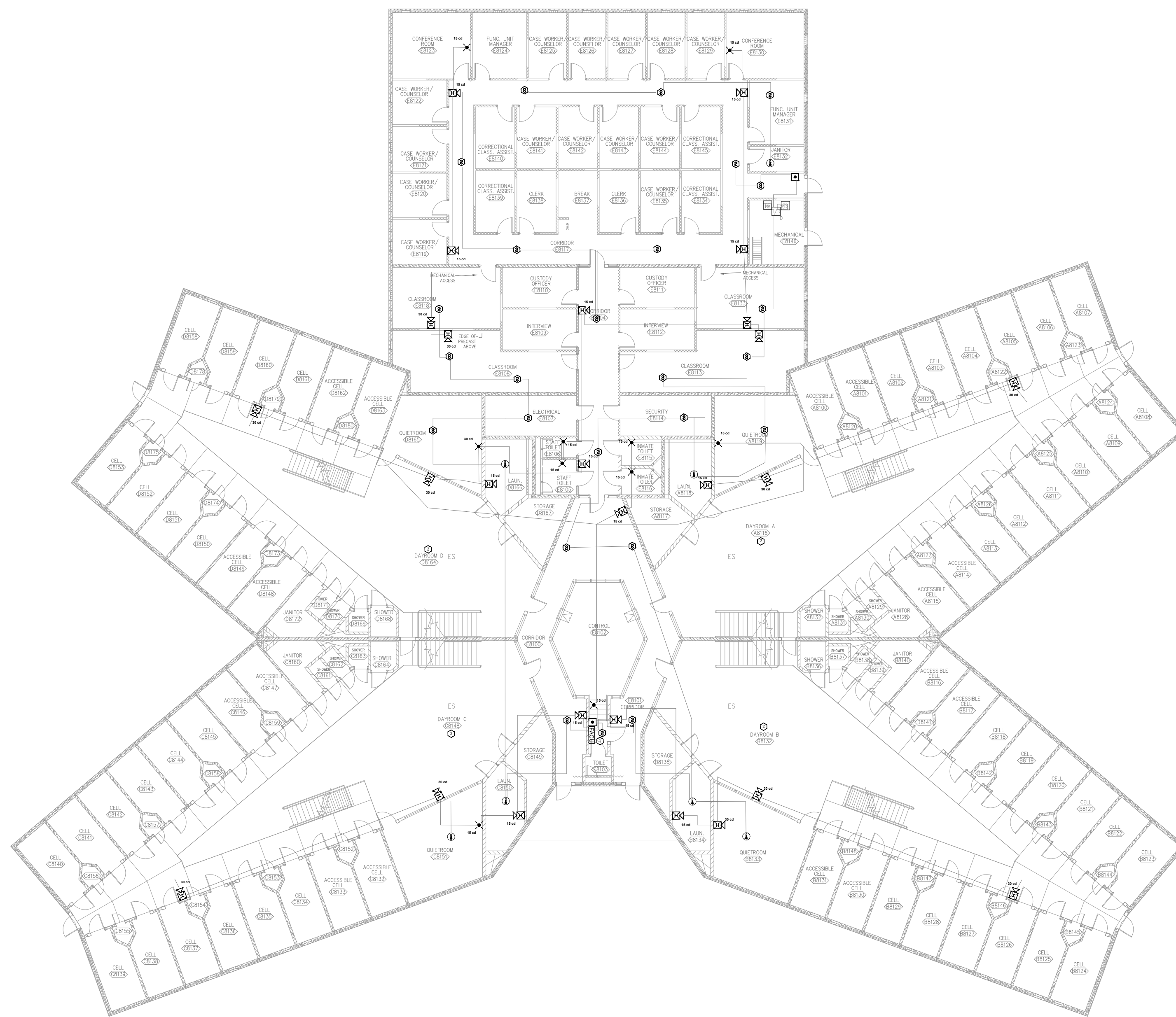
PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

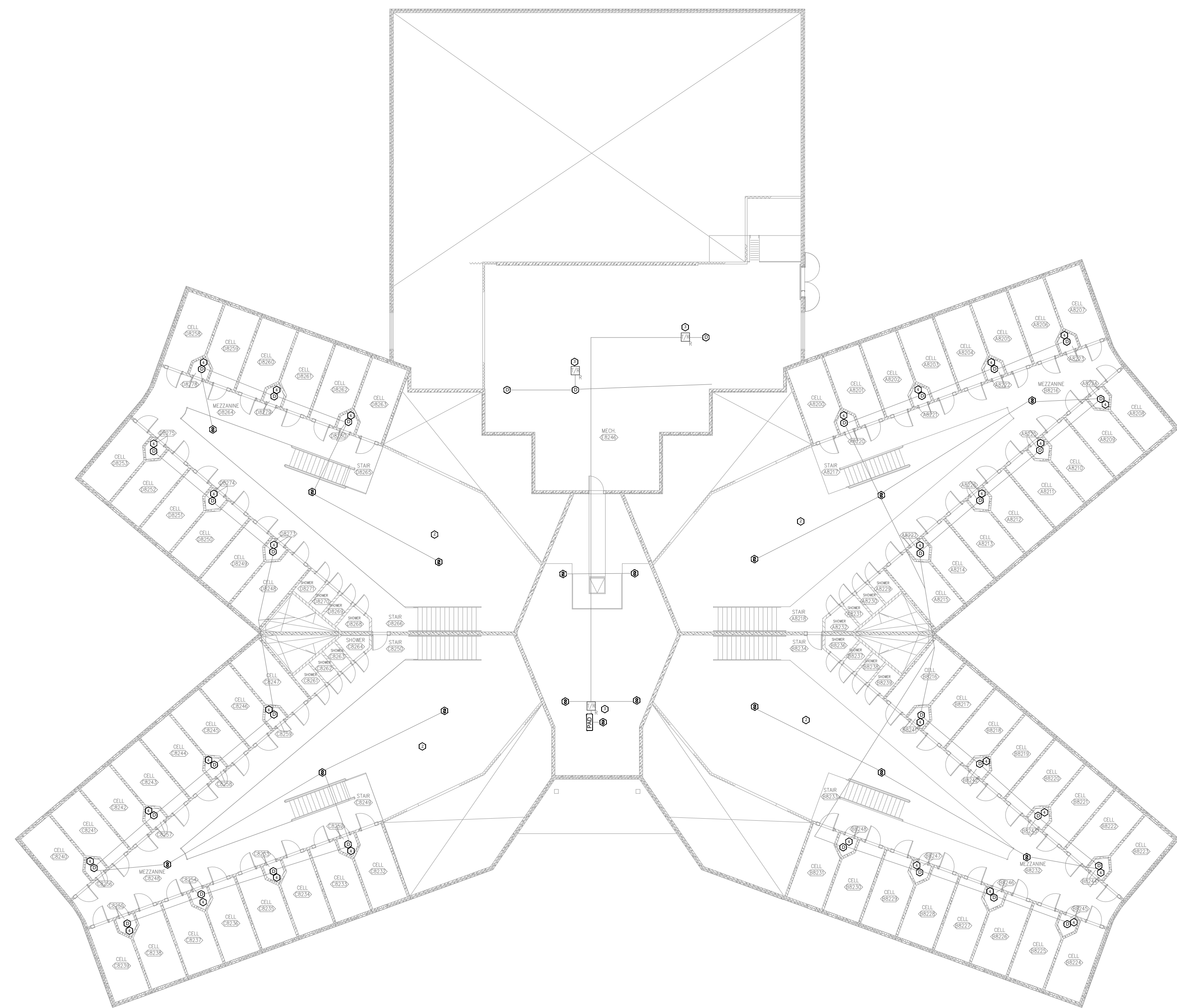
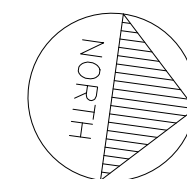
CAD DWG FILE: C2326-01-FA-FP-108  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
BUILDING #8 - FIRE  
ALARM PLAN

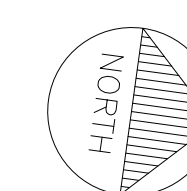
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FA-400



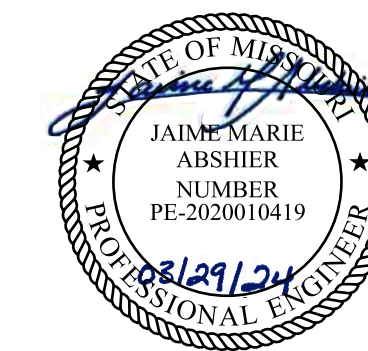
1 BUILDING #8 - FIRE ALARM FIRST FLOOR PLAN  
SCALE: 1/16" = 1'-0"



2 BUILDING #8 - FIRE ALARM SECOND FLOOR PLAN  
SCALE: 1/16" = 1'-0"



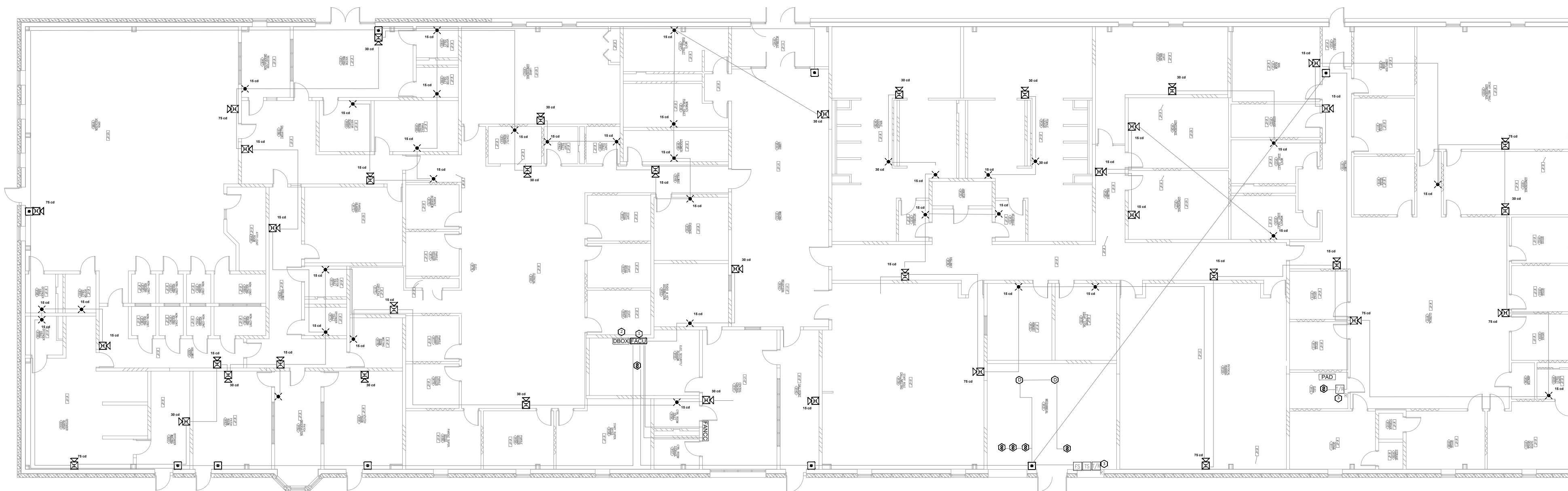




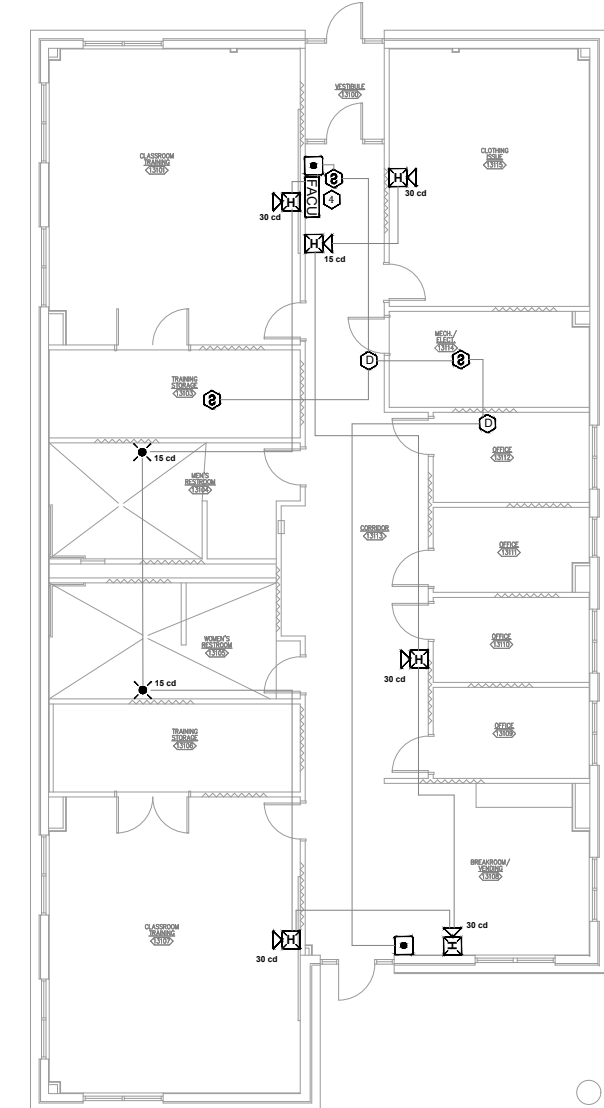
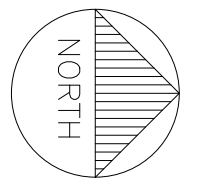
REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.

KEY NOTES

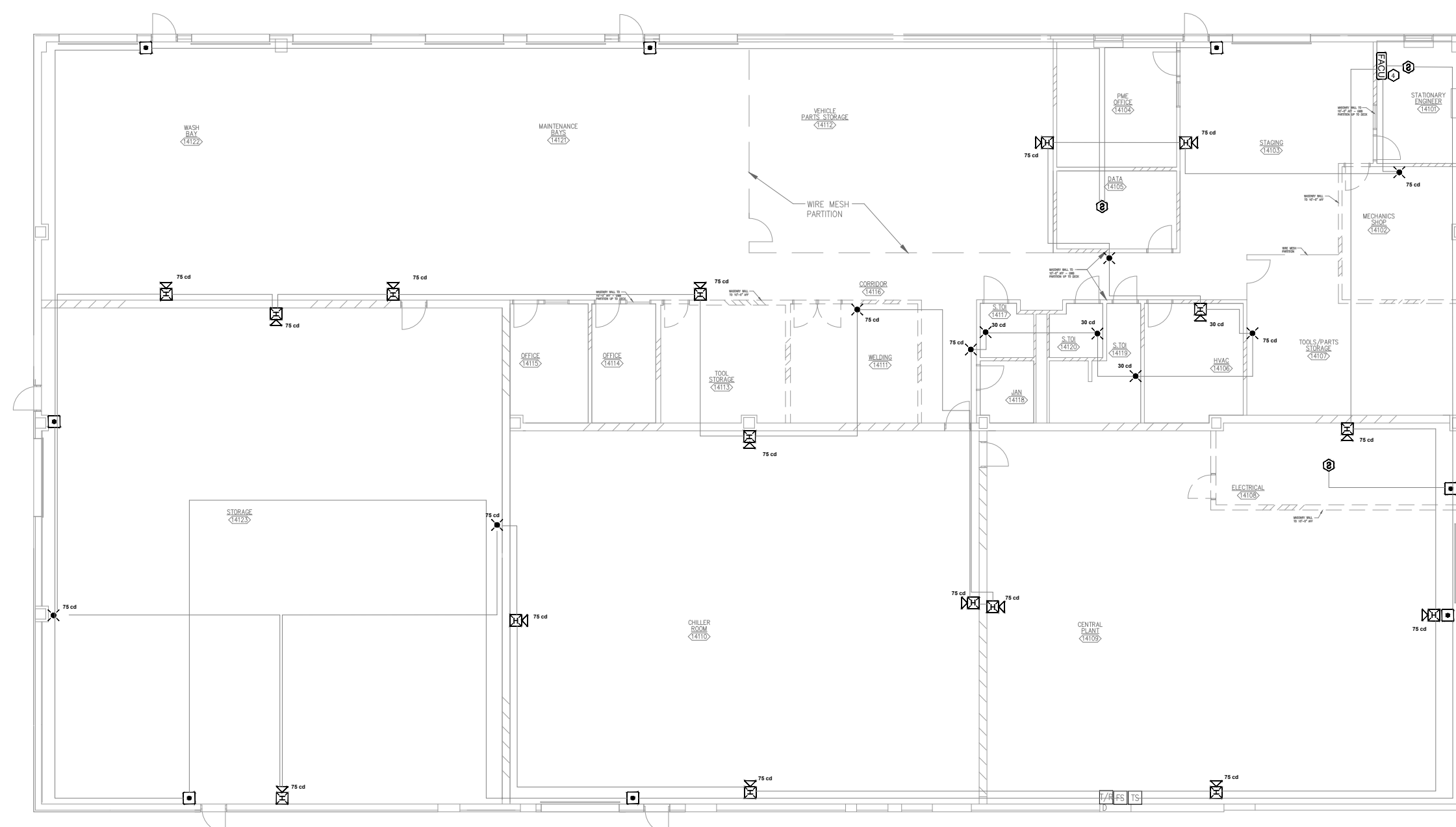
- 1 FIRE ALARM PANELS LOCATED THROUGHOUT TO REPORT TO MAIN PANEL LOCATED HERE.
- 2 PROVIDE FIRE ALARM DOCUMENT BOX TO BEST SUIT THE SPACE. COORDINATE WITH OWNER FINAL TYPE AND MOUNTING LOCATION. PROVIDE TYPE INDICATED ON LEGEND OR SIMILAR.
- 3 FIELD VERIFY EQUIPMENT BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.
- 4 FIRE ALARM CONTROL UNIT. TIE INTO CAMPUS FIBER NETWORK TO REPORT BACK TO ADMIN FACU.



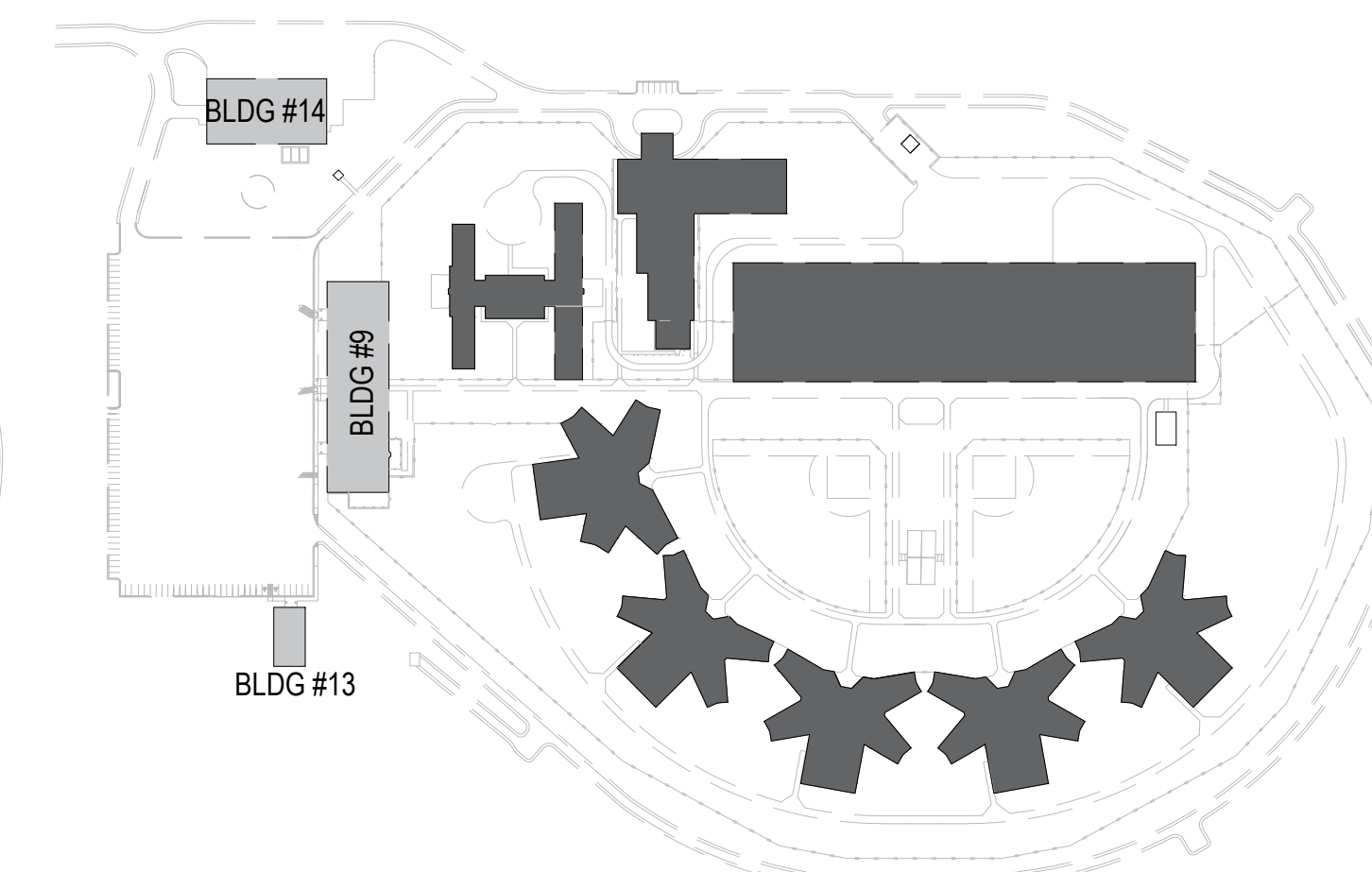
1 BUILDING #9 - FIRE ALARM PLAN  
SCALE: 1/16" = 1'-0"



2 BUILDING #13 - FIRE ALARM PLAN  
SCALE: 1/16" = 1'-0"



3 BUILDING #14 - FIRE ALARM PLAN  
SCALE: 1/16" = 1'-0"



AREA PLAN

OFFICE OF ADMINISTRATION  
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REPLACE FIRE ALARM  
SYSTEM,  
INFRASTRUCTURE  
CHILLICOTHE  
CORRECTIONAL CENTER

3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

CAD DWG FILE: C2326-01-FA-FP-109  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
BUILDINGS #9, #13, &  
#14 - FIRE ALARM  
PLAN

SHEET NUMBER:  
FA-500



REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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CORRECTIONAL CENTER

3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

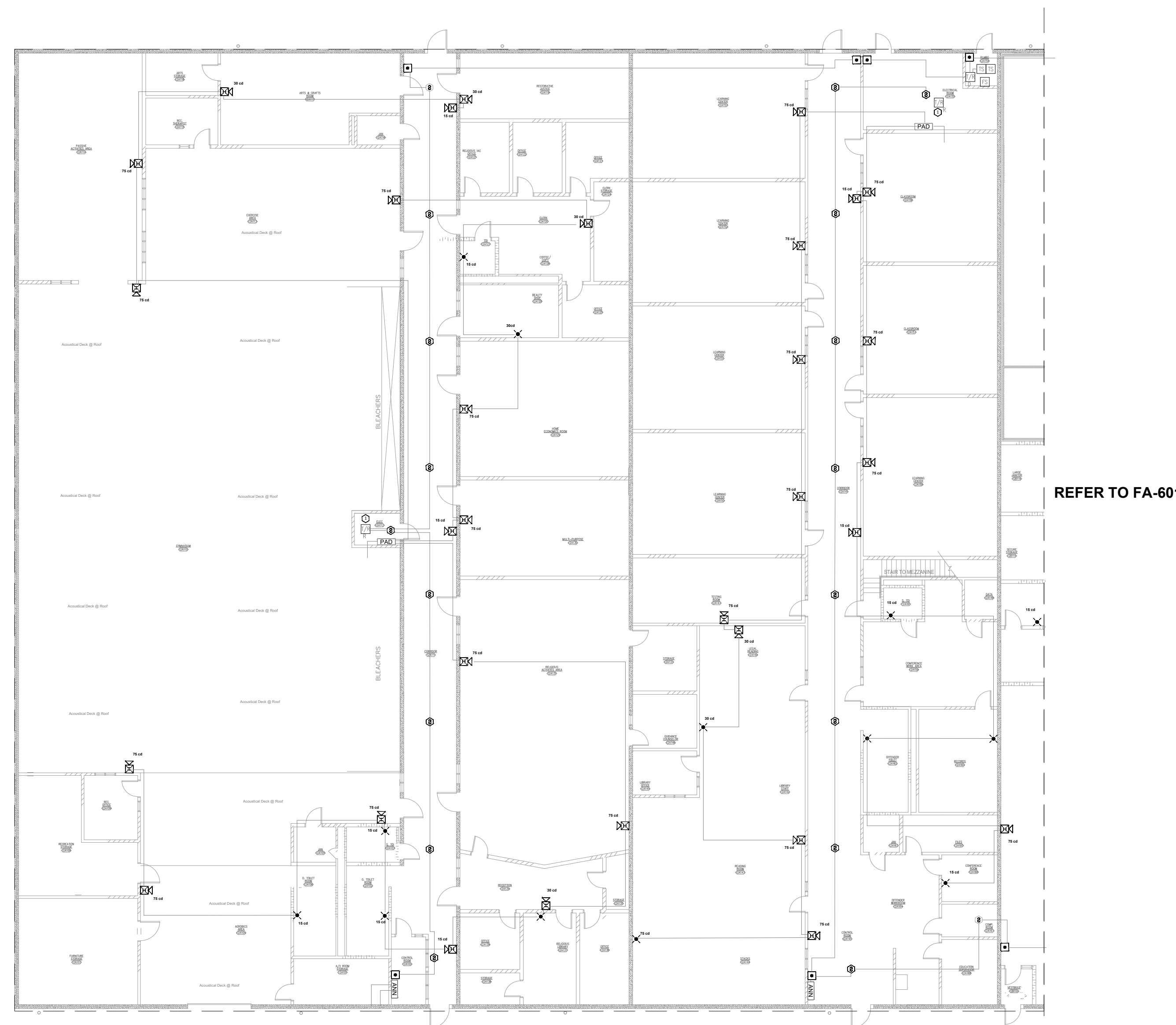
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CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #12 AREA A  
- FIRE ALARM PLAN**

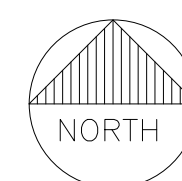
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KEY NOTES

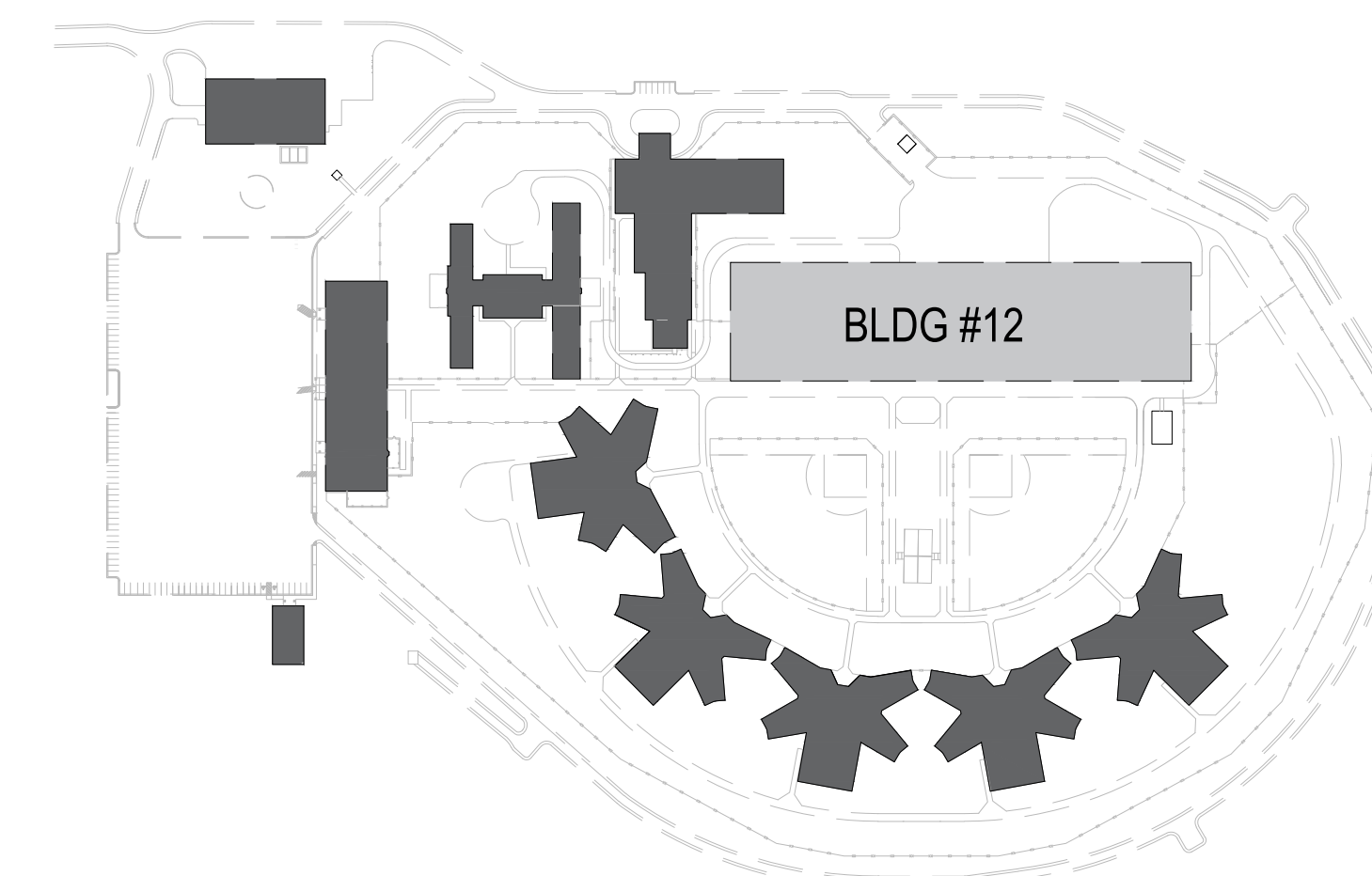
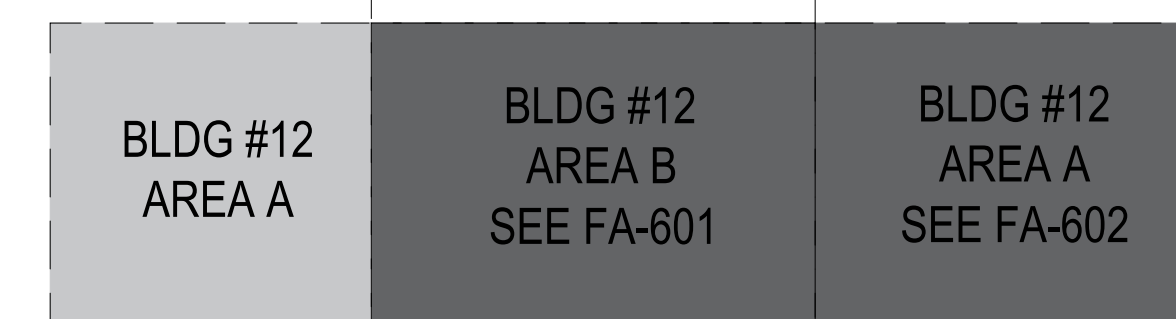
- 1 FIELD VERIFY EQUIPMENT AND QUANTITY BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.



1 **BUILDING #12 AREA A - FIRE ALARM PLAN**  
SCALE: 1/16" = 1'-0"

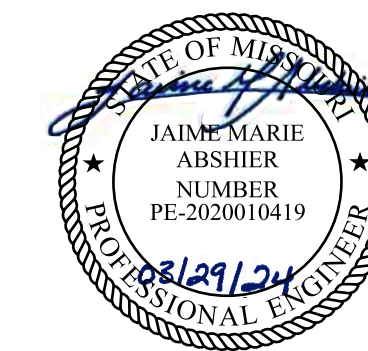


KEY PLAN



AREA PLAN





REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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ISSUE DATE: 03/29/2024

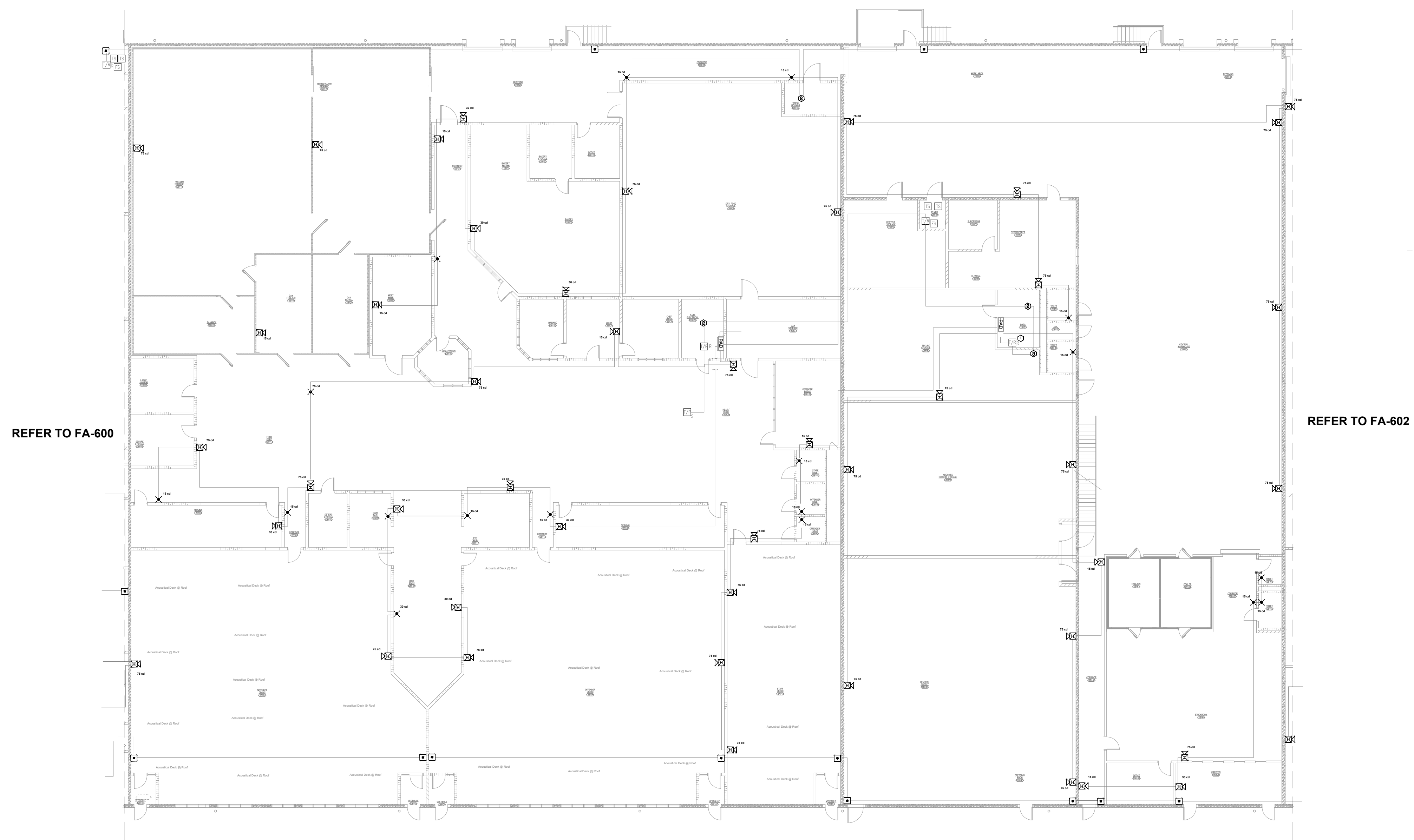
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DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #12 AREA B  
- FIRE ALARM PLAN**

SHEET NUMBER:  
**FA-601**

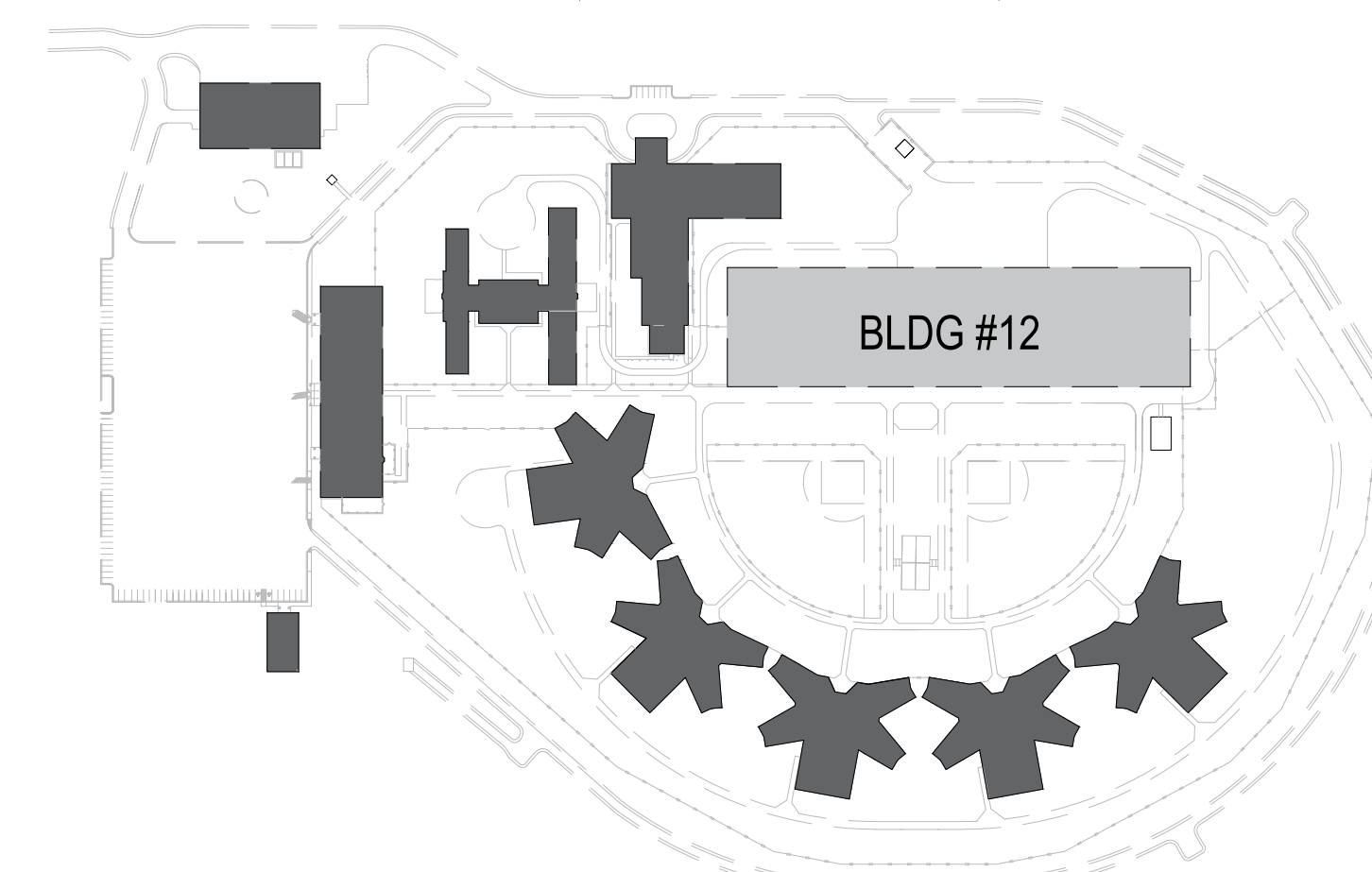
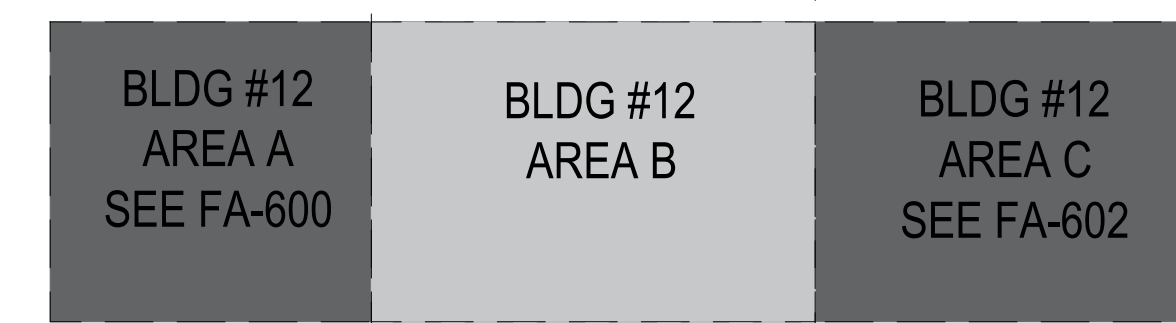
KEY NOTES

- 1 FIELD VERIFY EQUIPMENT AND QUANTITY BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.



**1 BUILDING #12 AREA B - FIRE ALARM PLAN**  
SCALE: 1/16" = 1'-0"  
NORTH

KEY PLAN



AREA PLAN



REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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REPLACE FIRE ALARM  
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CORRECTIONAL CENTER

3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION:  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_

ISSUE DATE: 03/29/2024

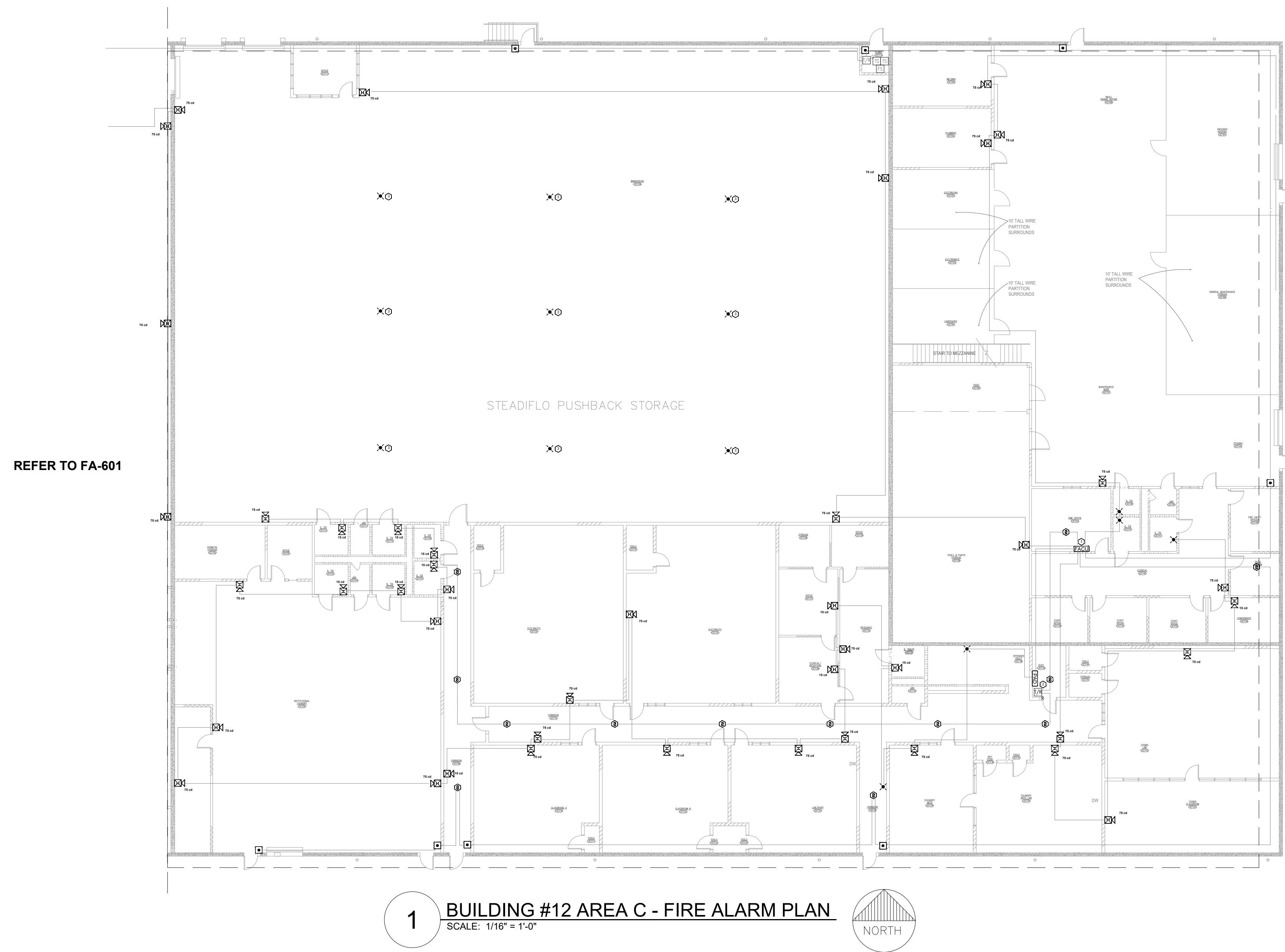
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DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #12 AREA C  
- FIRE ALARM PLAN**

SHEET NUMBER:  
**FA-602**

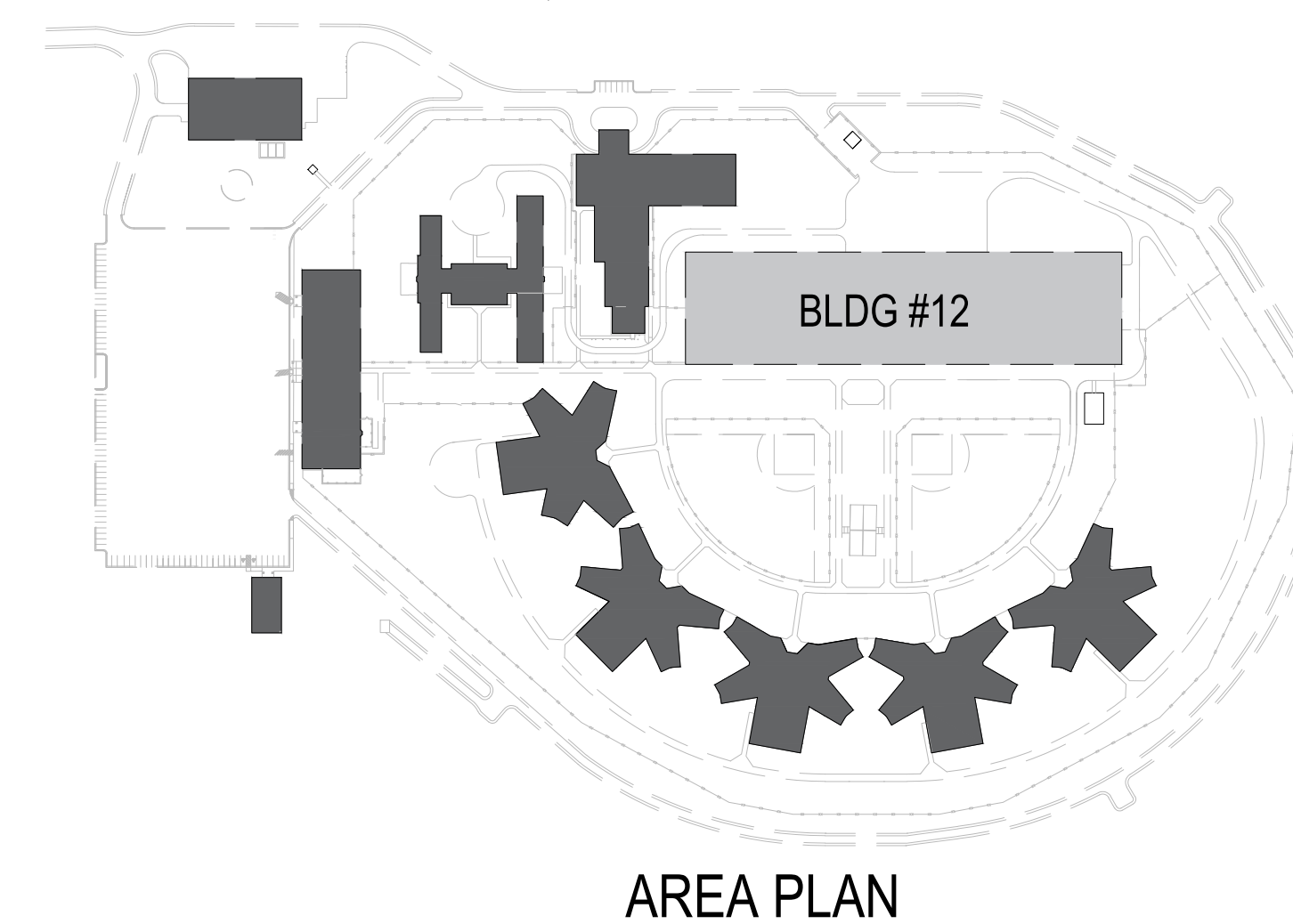
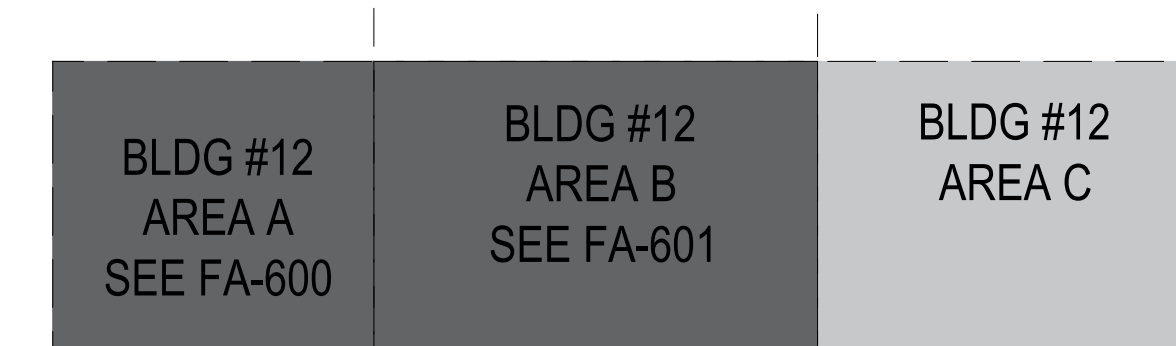
**KEY NOTES**

- 1 FIRE ALARM CONTROL UNIT. TIE INTO CAMPUS FIBER NETWORK TO REPORT BACK TO ADMIN FACU.
- 2 FIELD VERIFY EQUIPMENT AND QUANTITY BEING MONITORED AND/OR CONTROLLED BY THE FIRE ALARM SYSTEM. COORDINATE EXISTING CONDITIONS WITH OWNER FACILITIES MANAGEMENT.
- 3 ADDED NOTIFICATION APPLIANCE TO MEET THE REQUIREMENTS OF NFPA 72



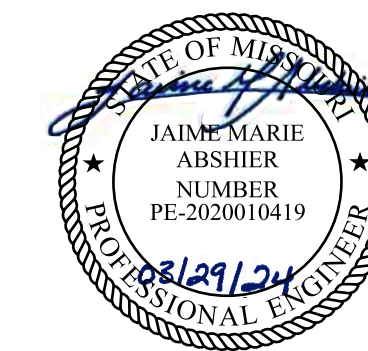
**1** BUILDING #12 AREA C - FIRE ALARM PLAN  
SCALE: 1/16" = 1'-0"  
NORTH

**KEY PLAN**



**AREA PLAN**





REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
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DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

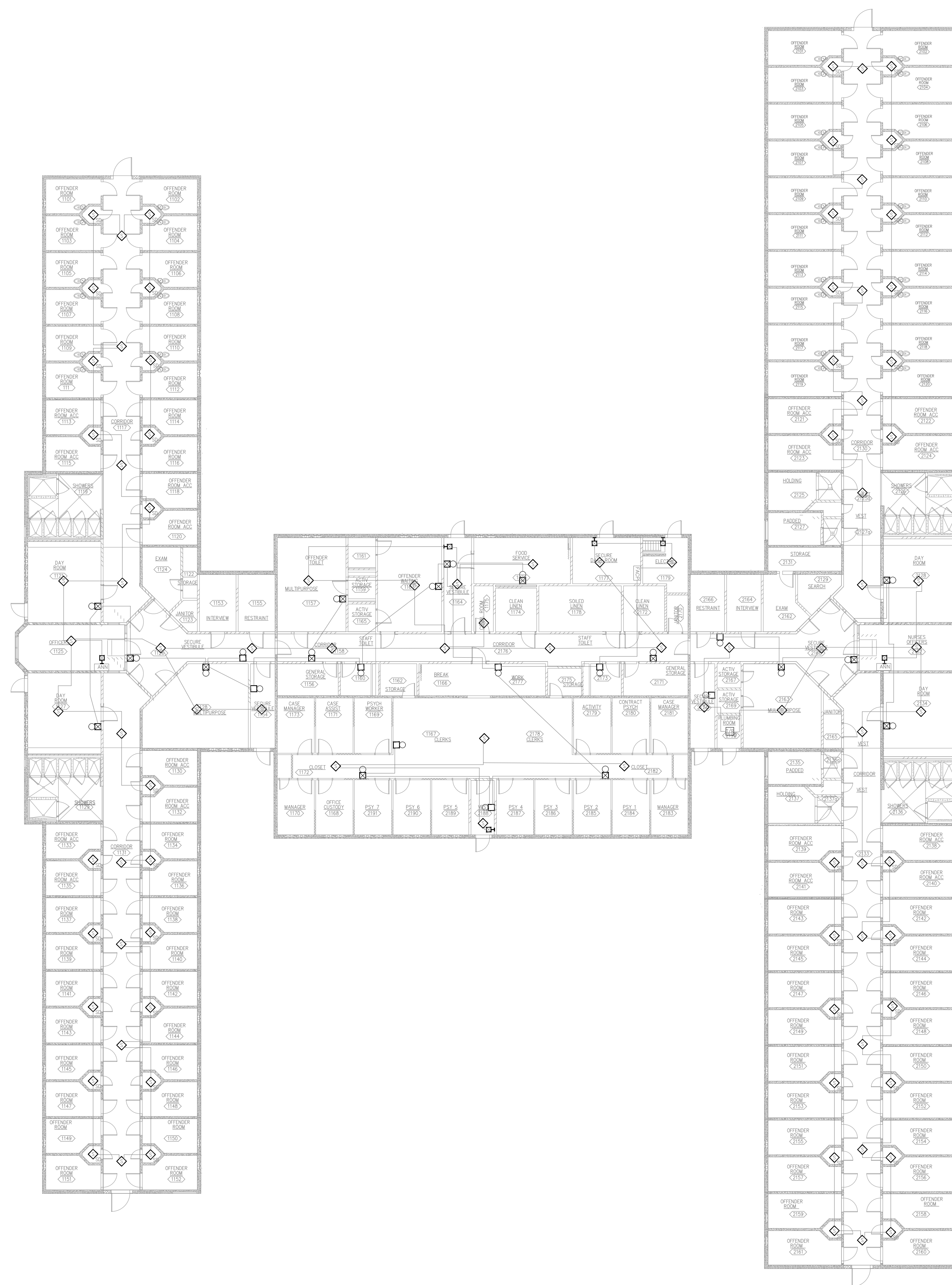
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DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #1 - FIRE  
ALARM DEMO PLAN**

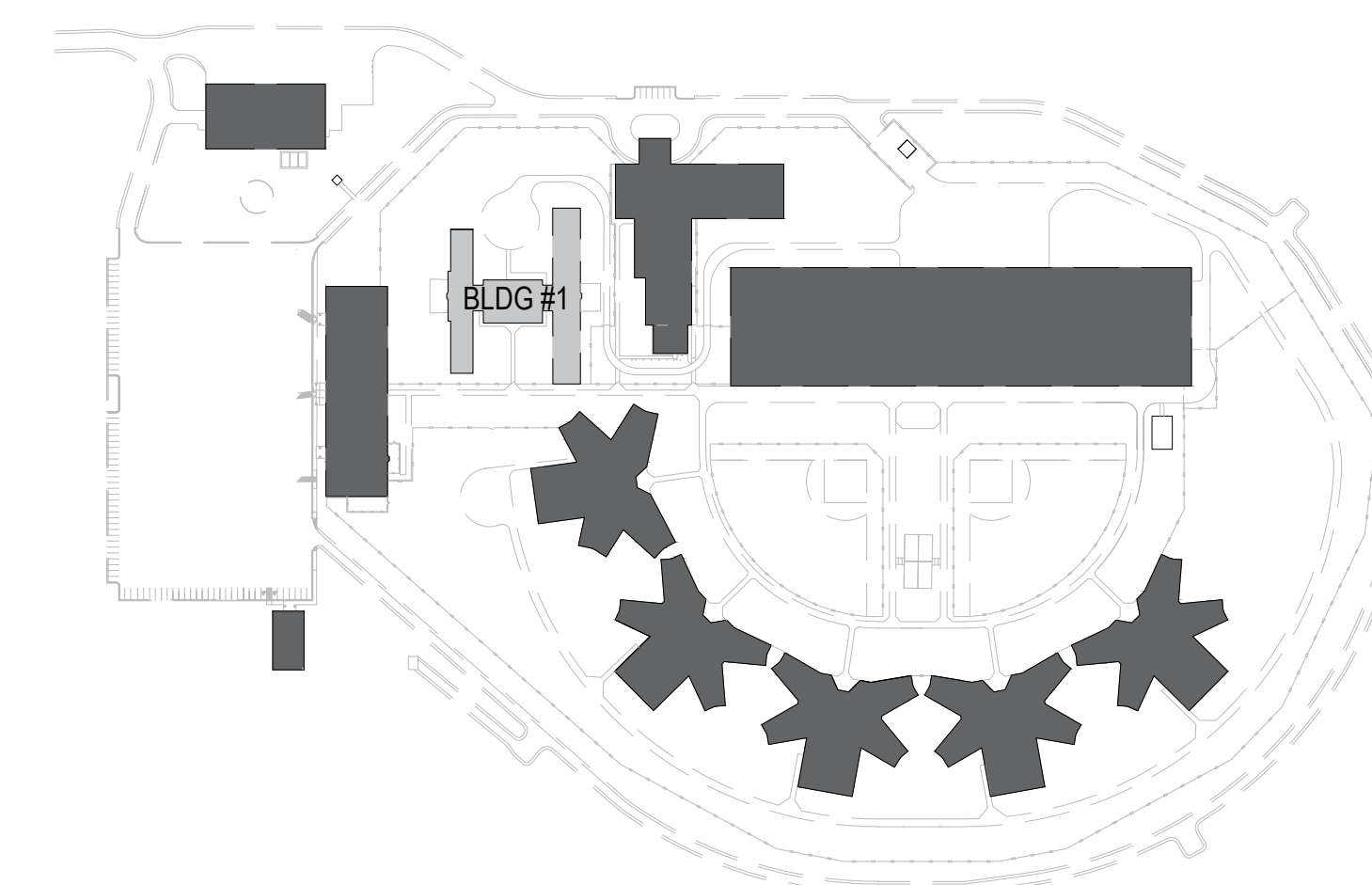
SHEET NUMBER:  
**FAD-100**

GENERAL NOTES

1. ALL NOTIFICATION AND DETECTION DEVICES ARE TO BE REPLACED. LOCATIONS TO BE MODIFIED AS NECESSARY TO MEET THE REQUIREMENTS OF NFPA 72. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL WIRING AND CONDUIT IN GOOD WORKING CONDITION MAY BE RE UTILIZED FOR NEW FIRE ALARM SYSTEM.

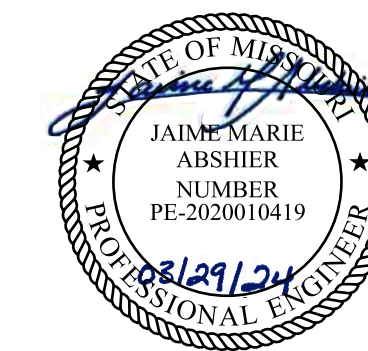


**1** BUILDING #1 - FIRE ALARM DEMO PLAN  
SCALE: 1/16" = 1'-0"



AREA PLAN





REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

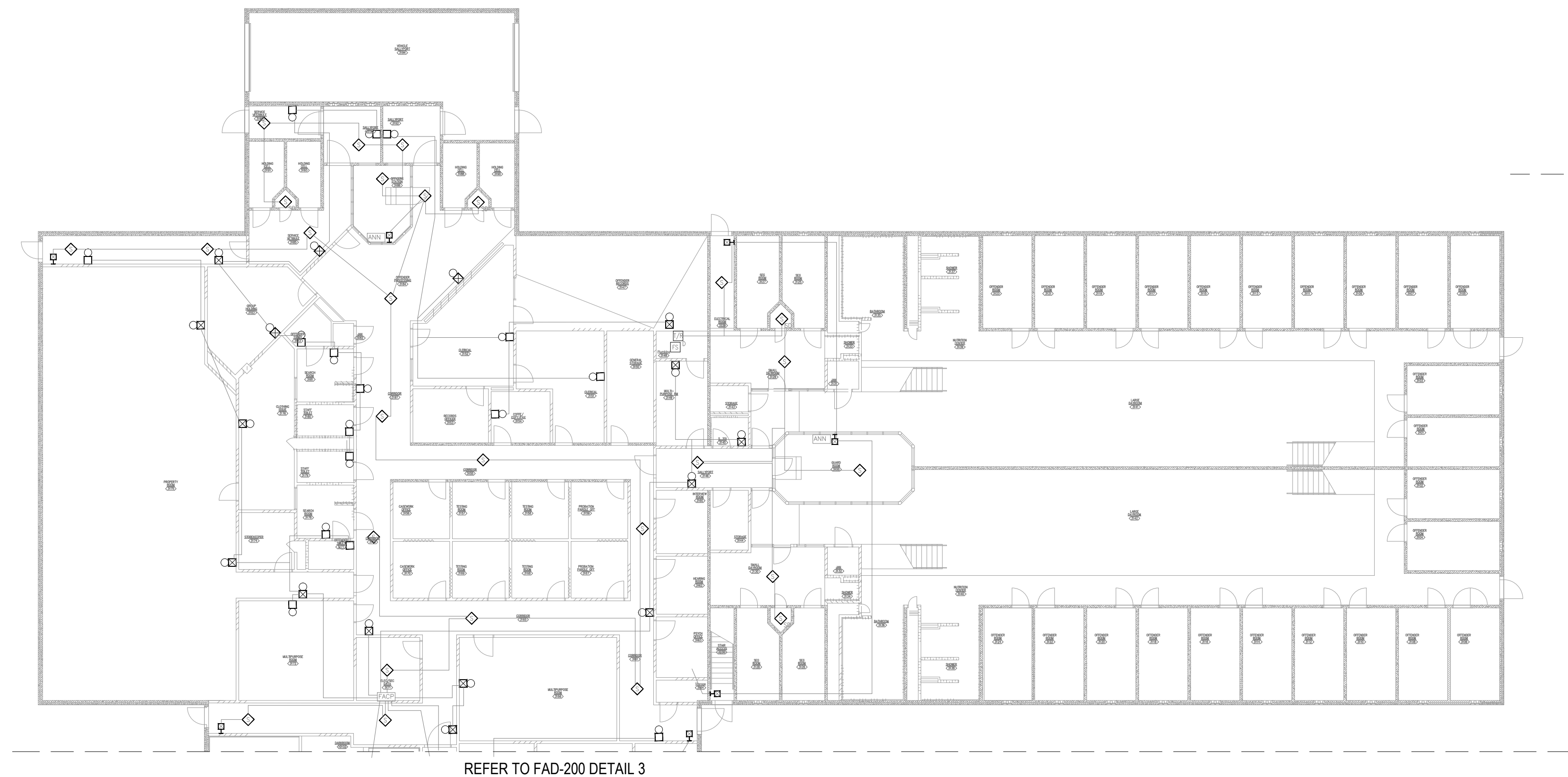
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CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #3 & #10 -  
FIRE ALARM DEMO  
PLAN**

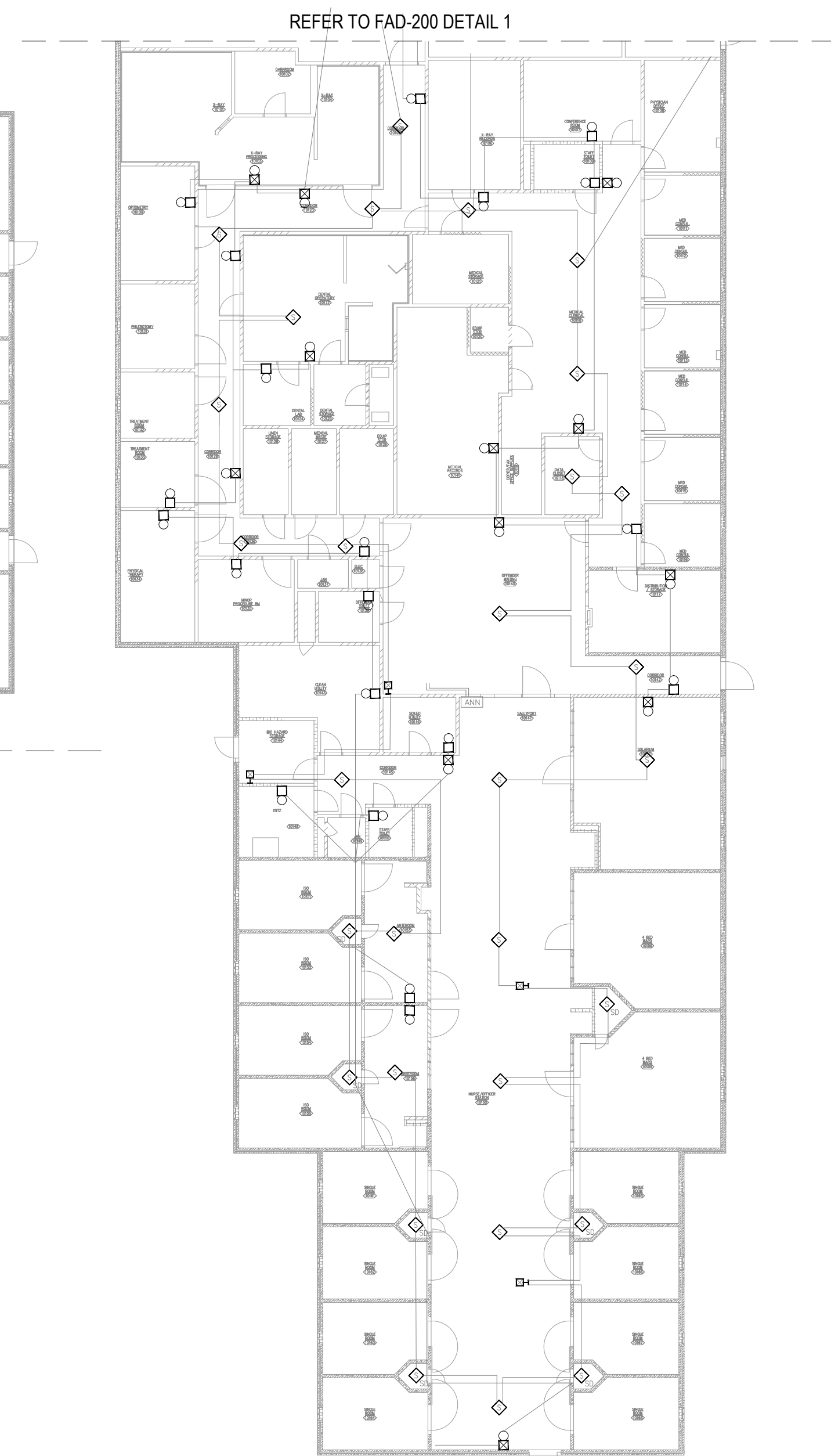
SHEET NUMBER:  
FAD-200

GENERAL NOTES

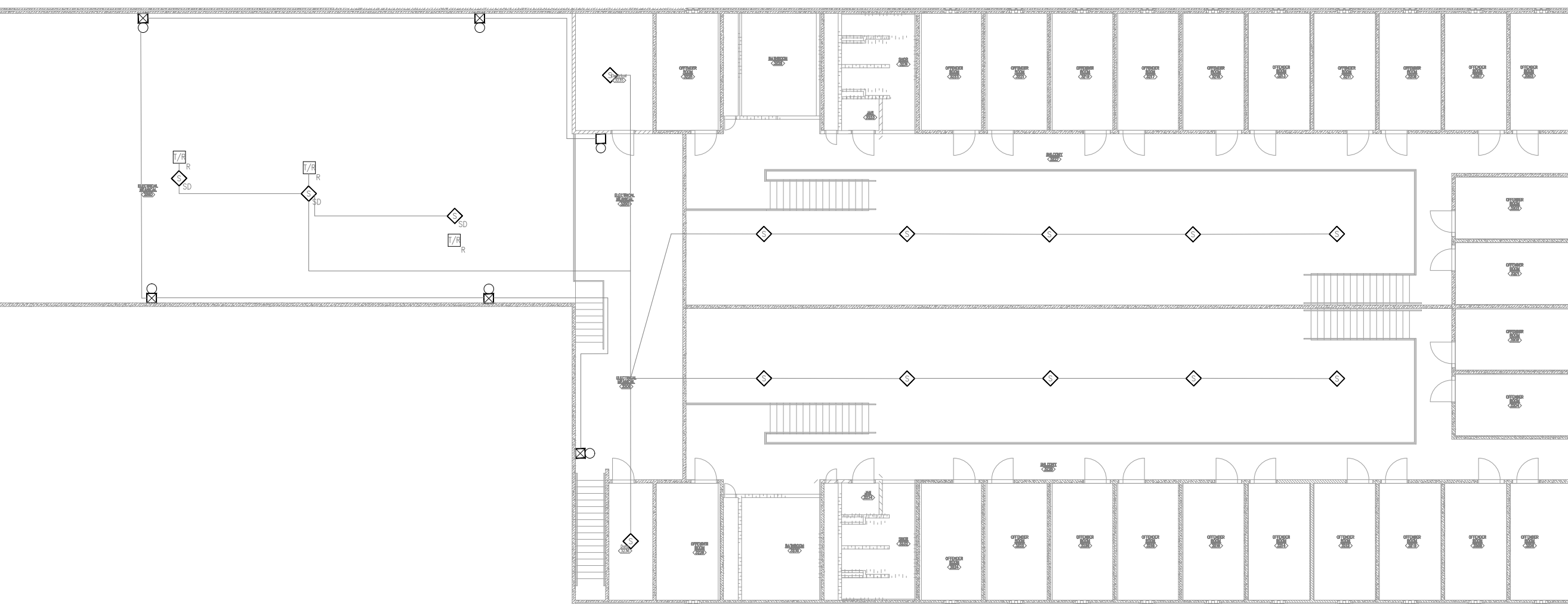
1. ALL NOTIFICATION AND DETECTION DEVICES ARE TO BE REPLACED. LOCATIONS TO BE MODIFIED AS NECESSARY TO MEET THE REQUIREMENTS OF NFPA 72. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL WIRING AND CONDUIT IN GOOD WORKING CONDITION MAY BE RE UTILIZED FOR NEW FIRE ALARM SYSTEM.



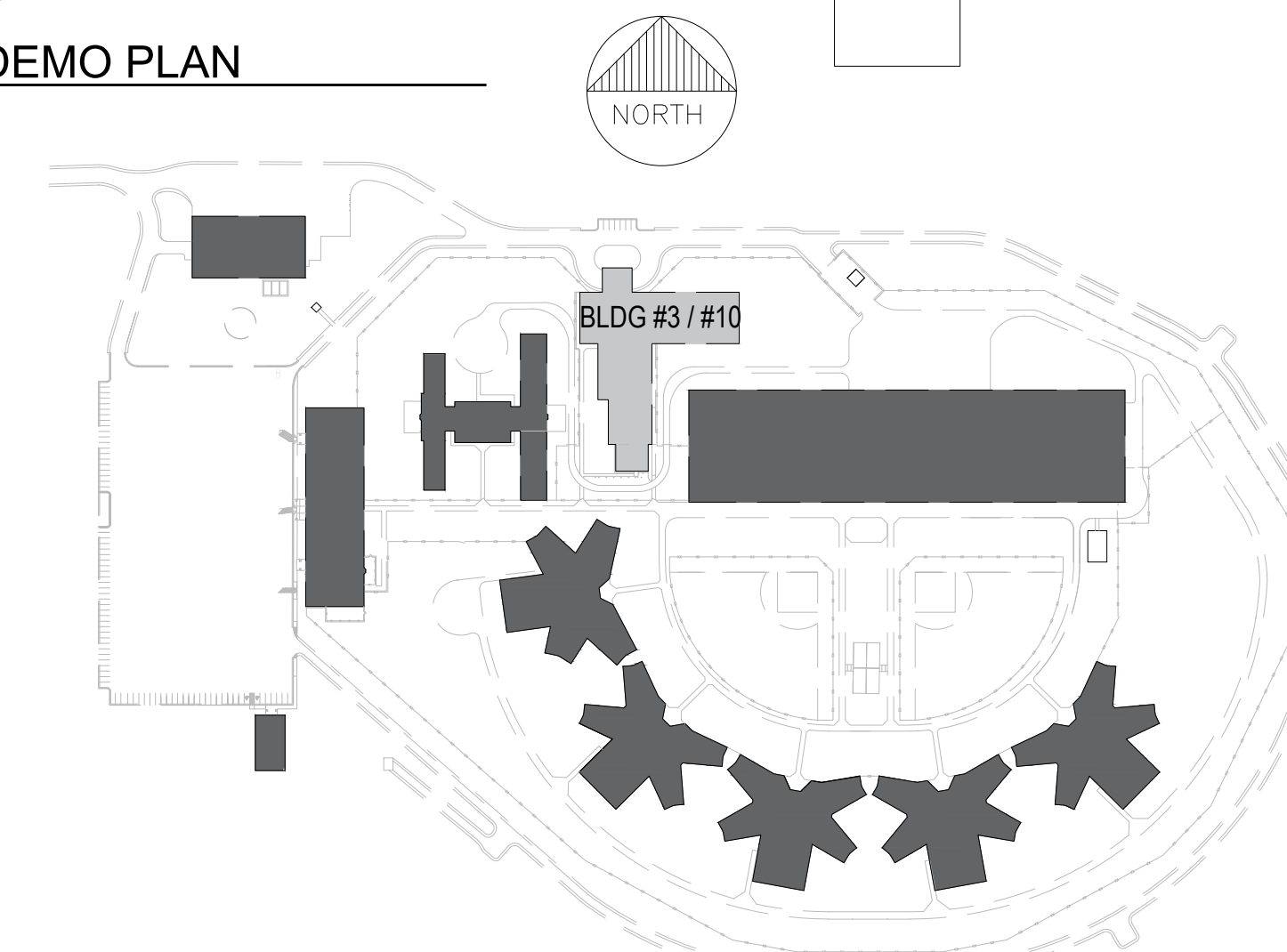
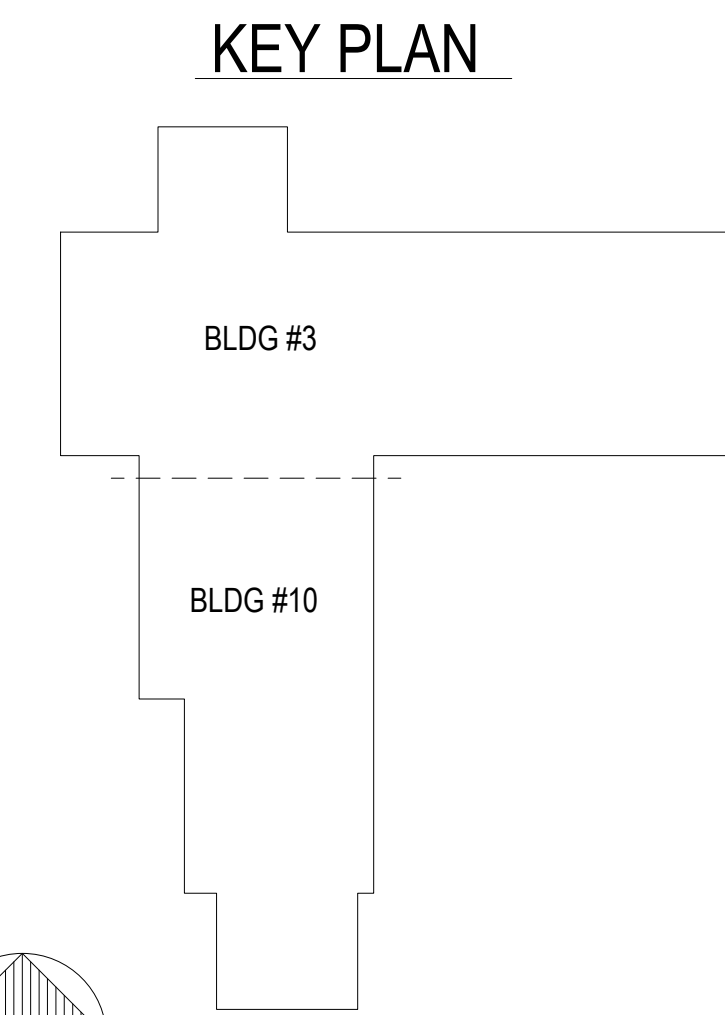
**1 BUILDING #3 - FIRE ALARM FIRST FLOOR DEMO PLAN**  
SCALE: 1/16" = 1'-0"  
NORTH



**3 BUILDING #10 FIRE ALARM DEMO PLAN**  
SCALE: 1/16" = 1'-0"  
NORTH

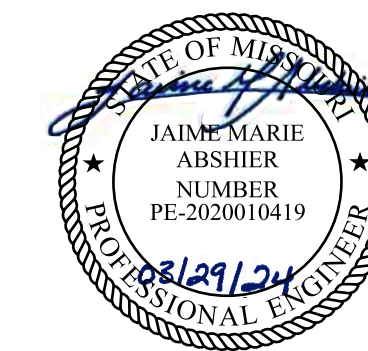


**2 BUILDING #3 - FIRE ALARM SECOND FLOOR DEMO PLAN**  
SCALE: 1/16" = 1'-0"  
NORTH



AREA PLAN





REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



OFFICE OF ADMINISTRATION  
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REPLACE FIRE ALARM  
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INFRASTRUCTURE  
CHILLICOTHE  
CORRECTIONAL CENTER

3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/29/2024

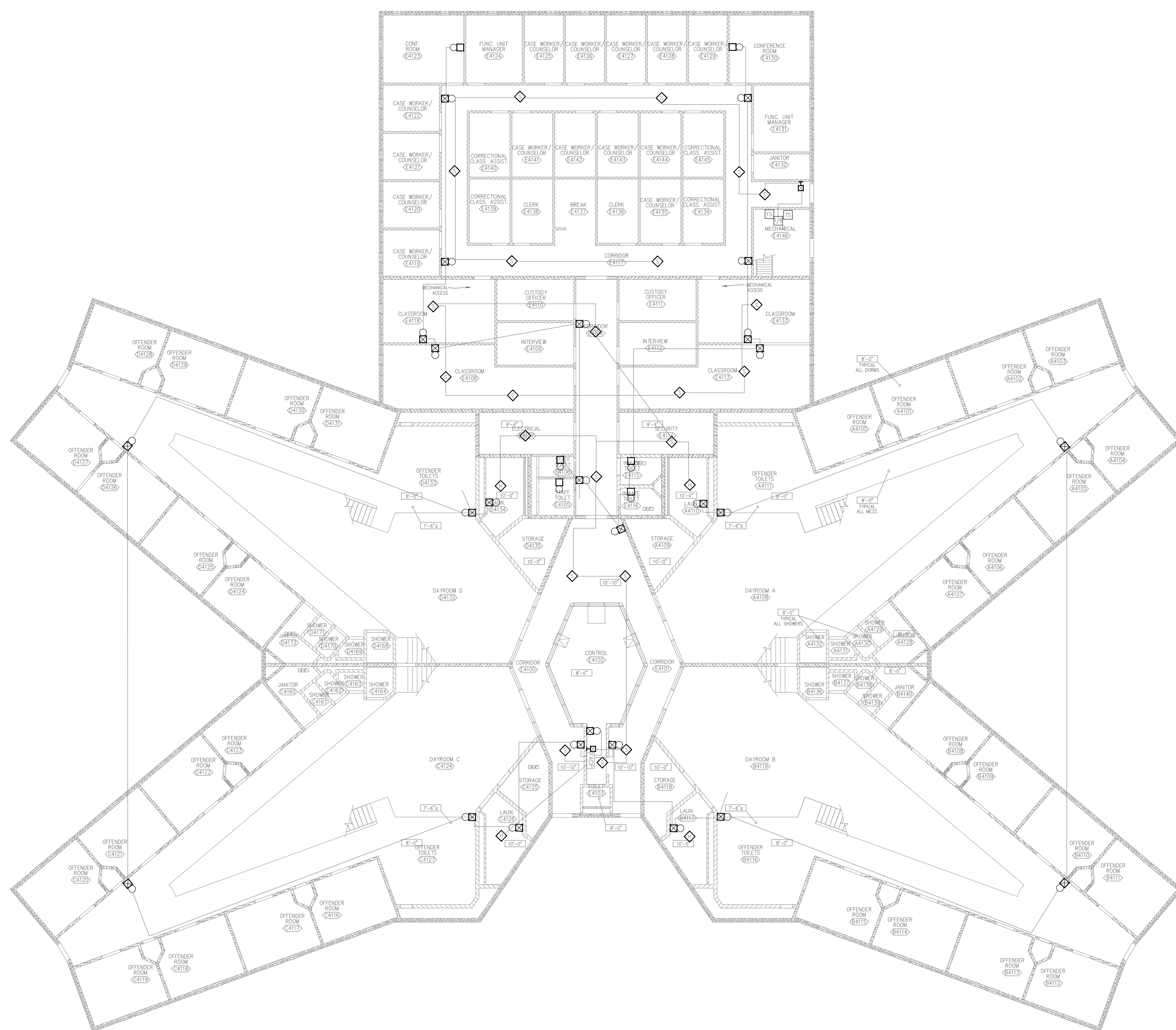
CAD DWG FILE: C2326-01-FA-FP-115  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #4 - #7 -  
FIRE ALARM DEMO  
PLAN**

SHEET NUMBER:  
**FAD-300**

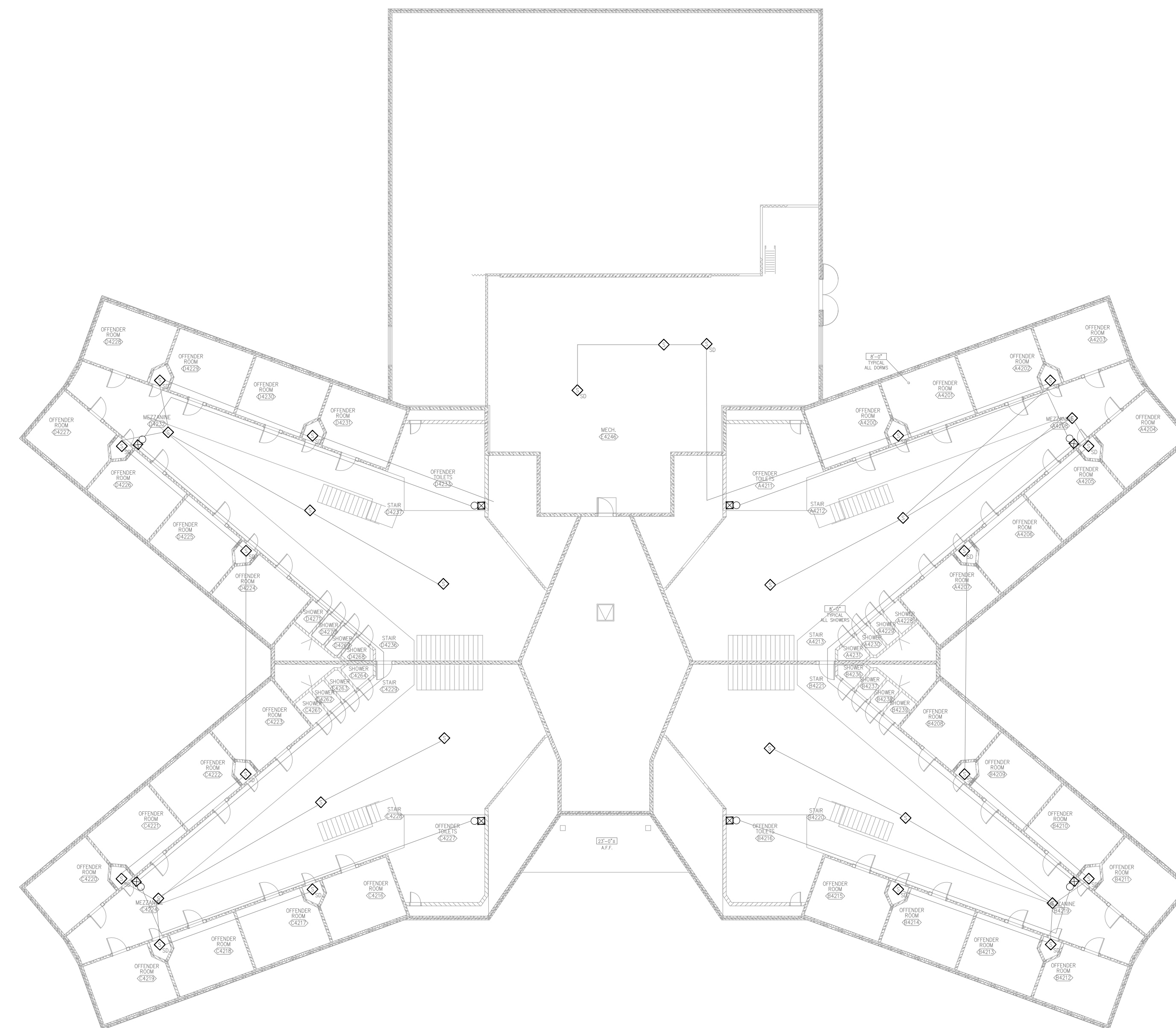
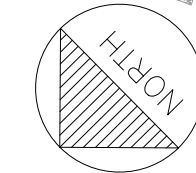
GENERAL NOTES

1. ALL NOTIFICATION AND DETECTION DEVICES ARE TO BE REPLACED. LOCATIONS TO BE MODIFIED AS NECESSARY TO MEET THE REQUIREMENTS OF NFPA 72. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL WIRING AND CONDUIT IN GOOD WORKING CONDITION MAY BE RE UTILIZED FOR NEW FIRE ALARM SYSTEM.



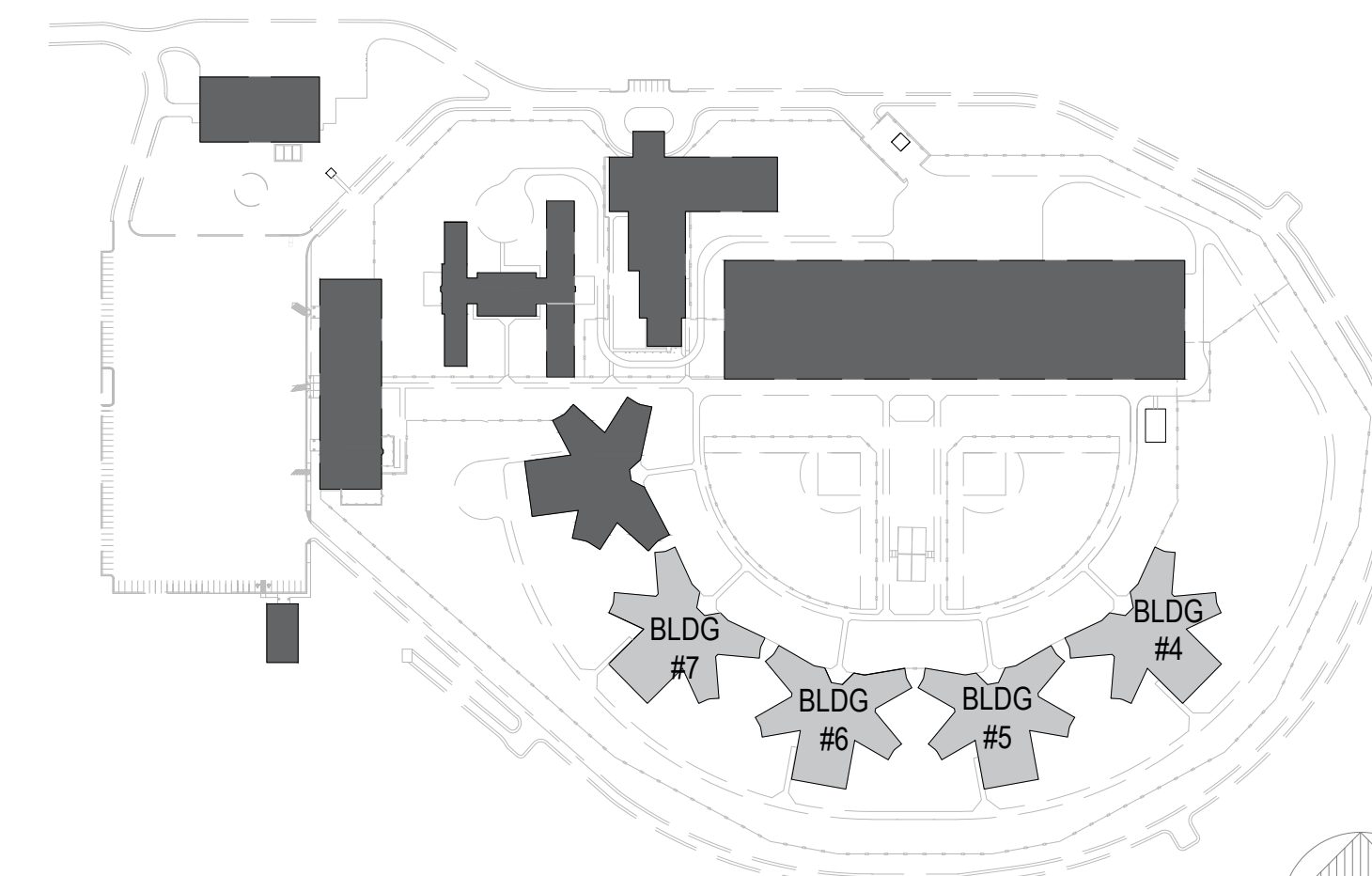
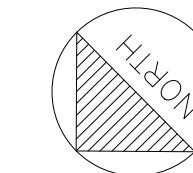
**1 BUILDING #4 - #7 - FIRE ALARM FIRST FLOOR DEMO PLAN**  
SCALE: 1/16" = 1'-0"

TYPICAL FOR BUILDING #4 THROUGH BUILDING #7  
NOTE: NORTH ARROW INDICATION FOR BUILDING #4, REFER TO KEY PLAN  
TO ORIENT NORTH FOR BUILDINGS #5-#7.



**2 BUILDING #4 - #7 - FIRE ALARM SECOND FLOOR DEMO PLAN**  
SCALE: 1/16" = 1'-0"

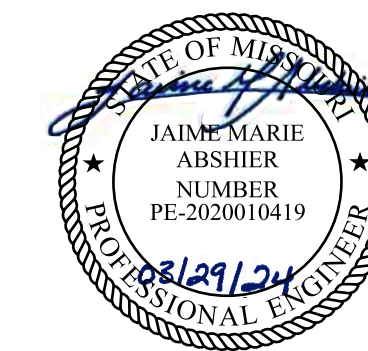
TYPICAL FOR BUILDING #4 THROUGH BUILDING #7  
NOTE: NORTH ARROW INDICATION FOR BUILDING #4, REFER TO KEY PLAN  
TO ORIENT NORTH FOR BUILDINGS #5-#7.



KEY PLAN







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3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
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ISSUE DATE: 03/29/2024

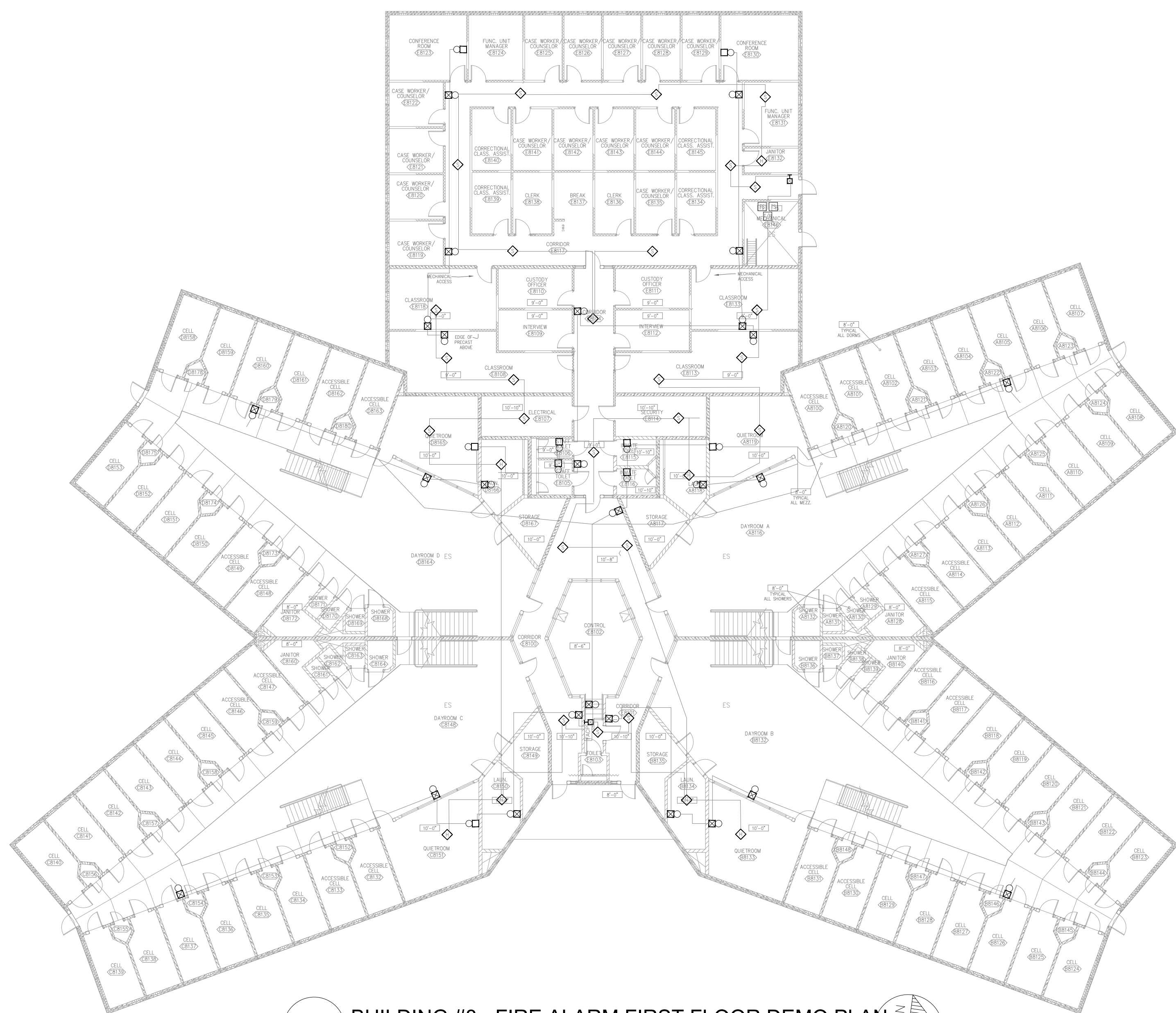
CAD DWG FILE: C2326-01-FA-FP-116  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #8 - FIRE  
ALARM DEMO PLAN**

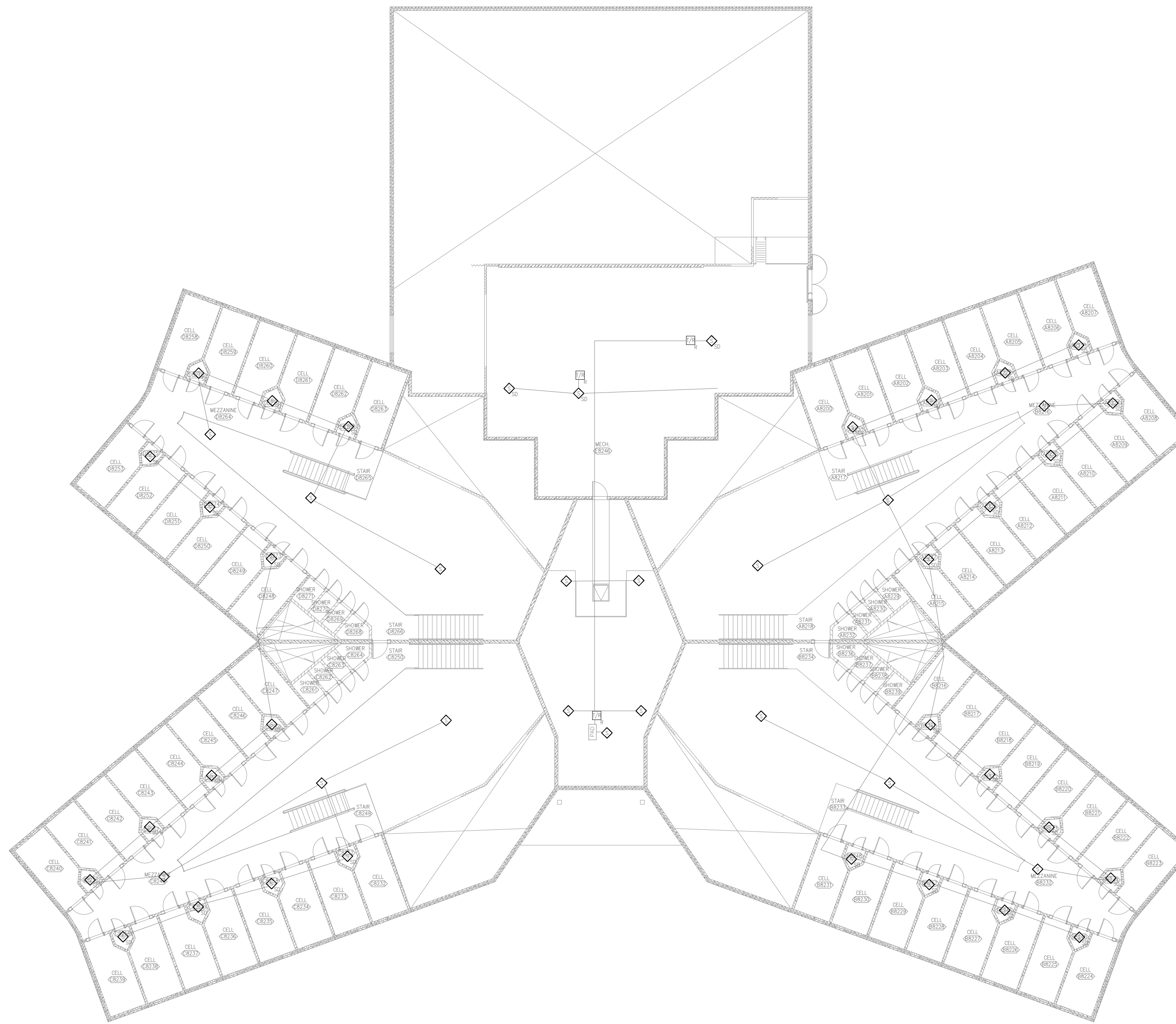
SHEET NUMBER:  
**FAD-400**

GENERAL NOTES

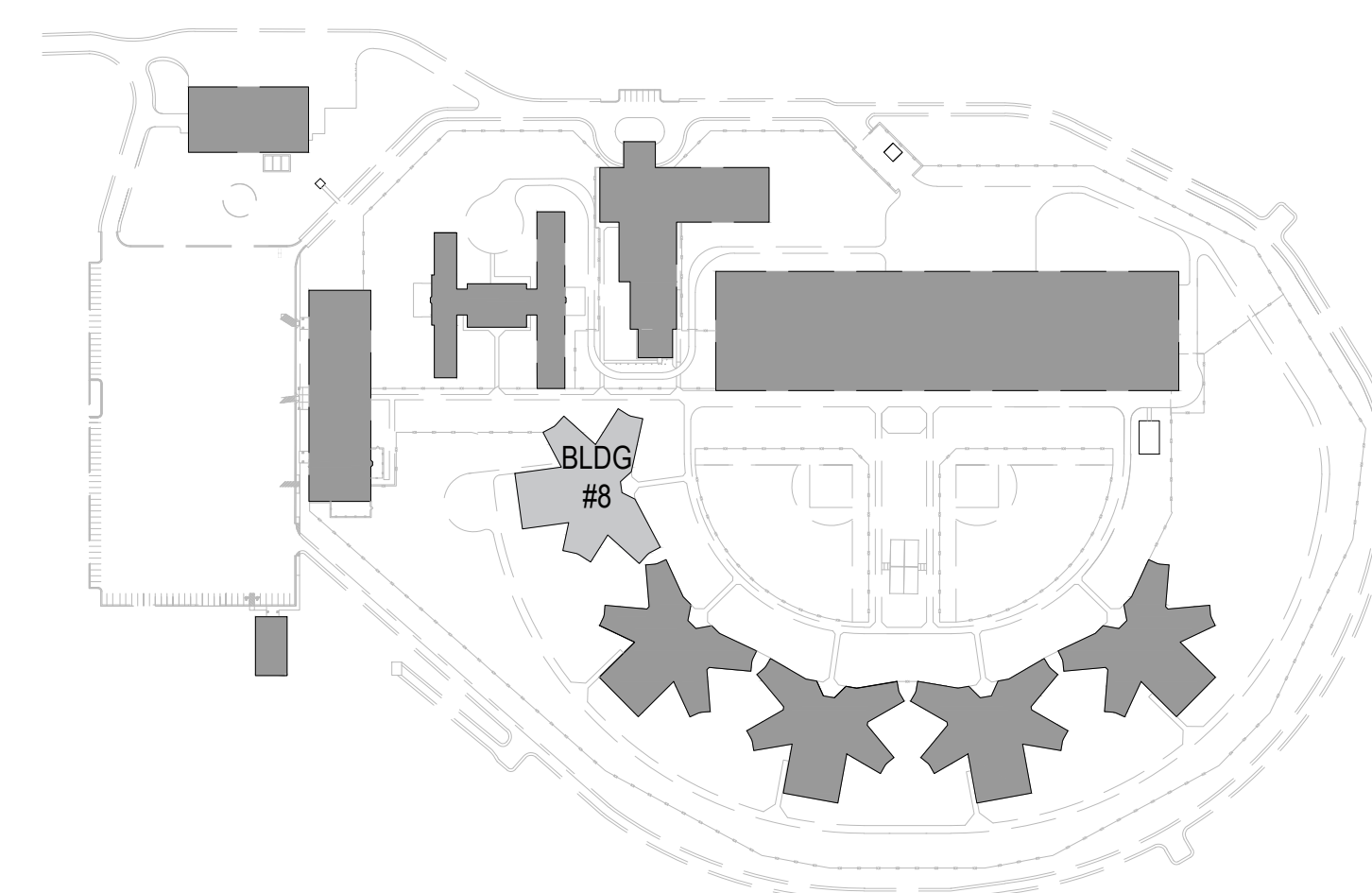
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2. ALL WIRING AND CONDUIT IN GOOD WORKING CONDITION MAY BE RE UTILIZED FOR NEW FIRE ALARM SYSTEM.



**1 BUILDING #8 - FIRE ALARM FIRST FLOOR DEMO PLAN**  
SCALE: 1/16" = 1'-0"

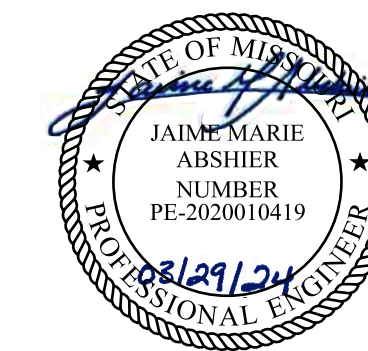


**2 BUILDING #8 - FIRE ALARM SECOND FLOOR DEMO PLAN**  
SCALE: 1/16" = 1'-0"



**AREA PLAN**





REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

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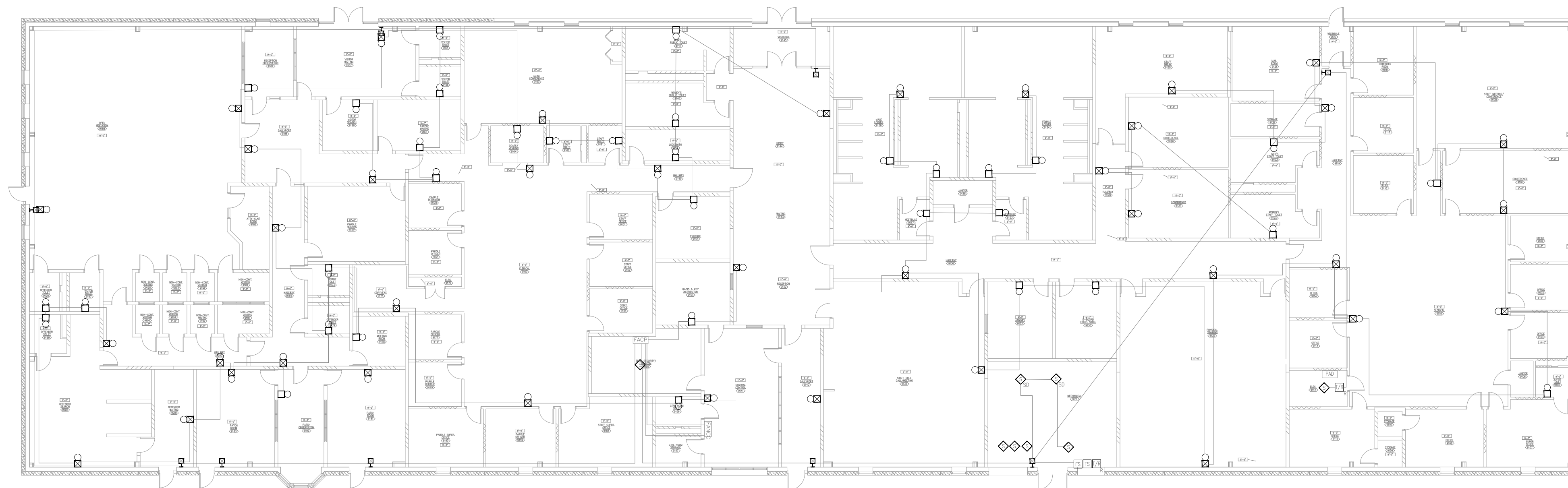
CAD DWG FILE: C2326-01-FA-FP-117  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
**BUILDING #9, #13, &  
#14 - FIRE ALARM  
DEMO PLAN**

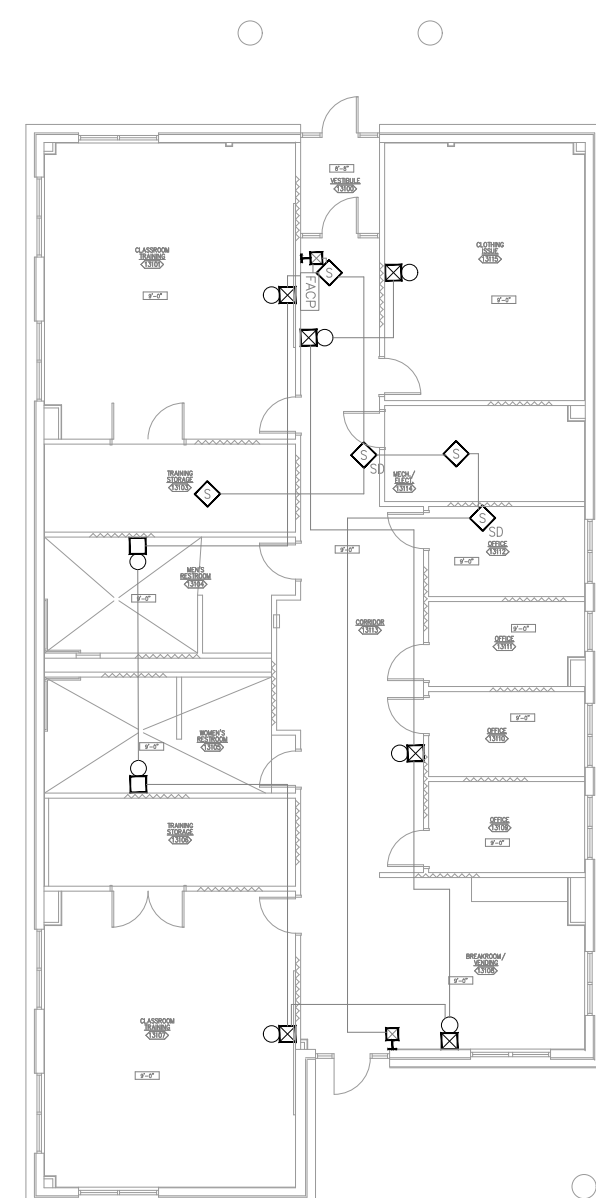
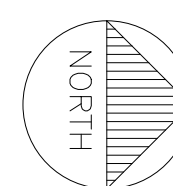
SHEET NUMBER:  
**FAD-500**

GENERAL NOTES

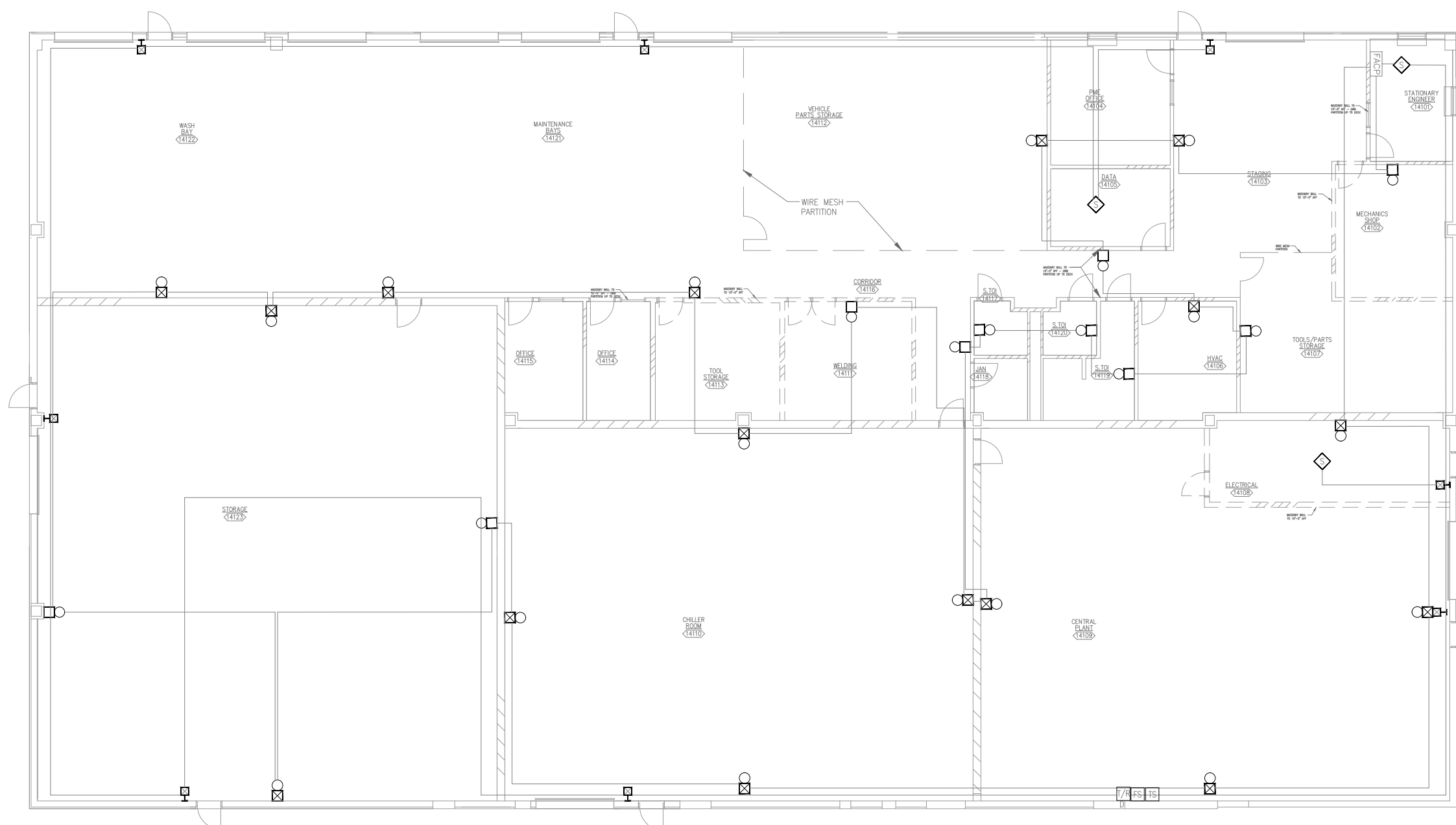
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2. ALL WIRING AND CONDUIT IN GOOD WORKING CONDITION MAY BE RE UTILIZED FOR NEW FIRE ALARM SYSTEM.



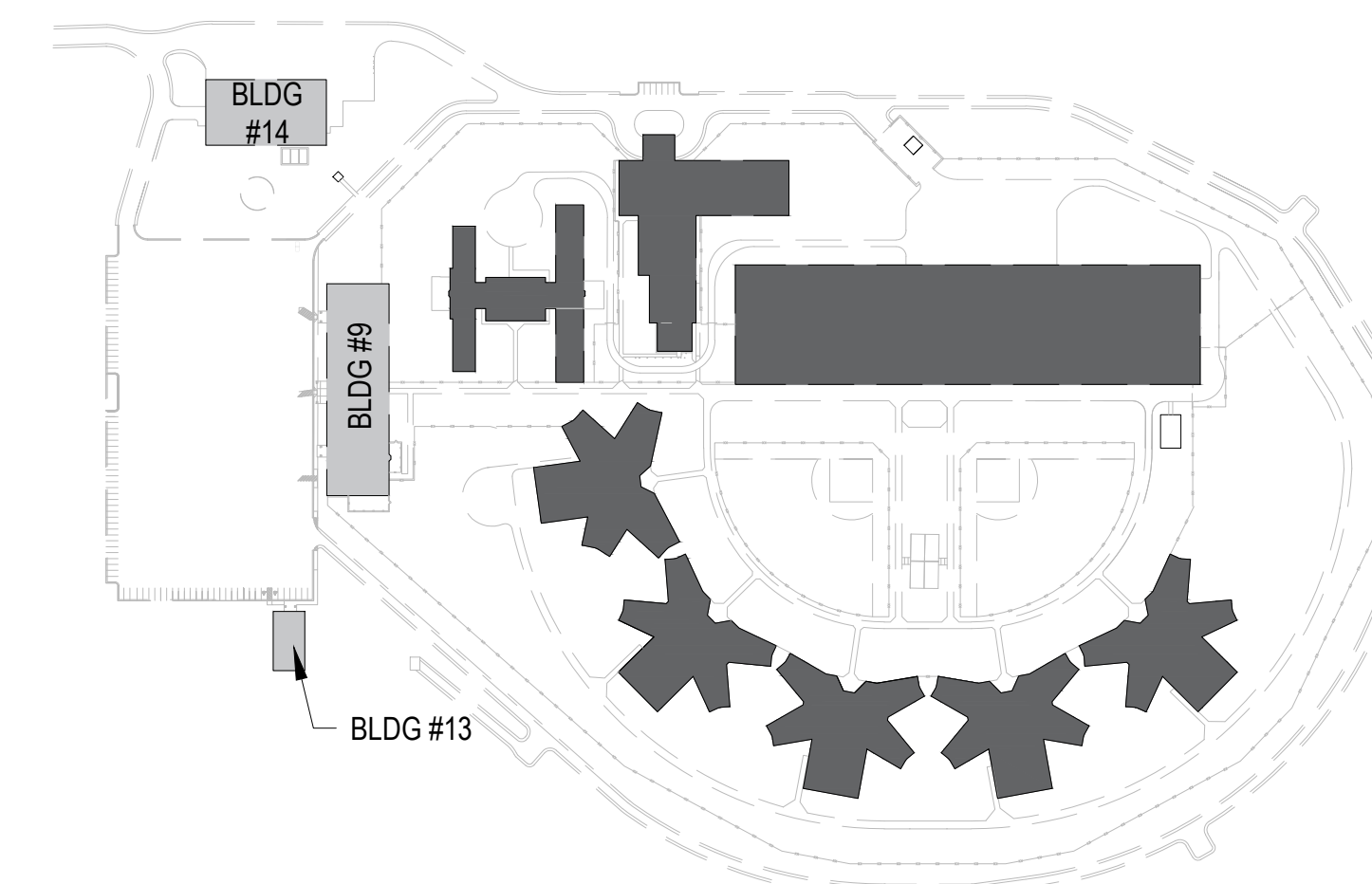
**1** BUILDING #9 - FIRE ALARM DEMO PLAN  
SCALE: 1/16" = 1'-0"



**2** BUILDING #13 - FIRE ALARM DEMO PLAN  
SCALE: 1/16" = 1'-0"

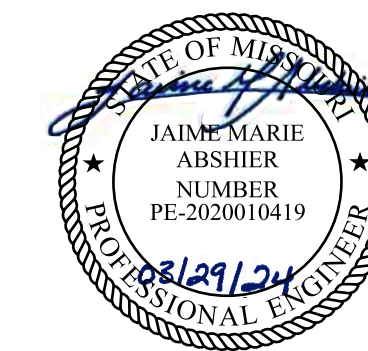


**3** BUILDING #14 - FIRE ALARM DEMO PLAN  
SCALE: 1/16" = 1'-0"



AREA PLAN





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3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
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ISSUE DATE: 03/29/2024

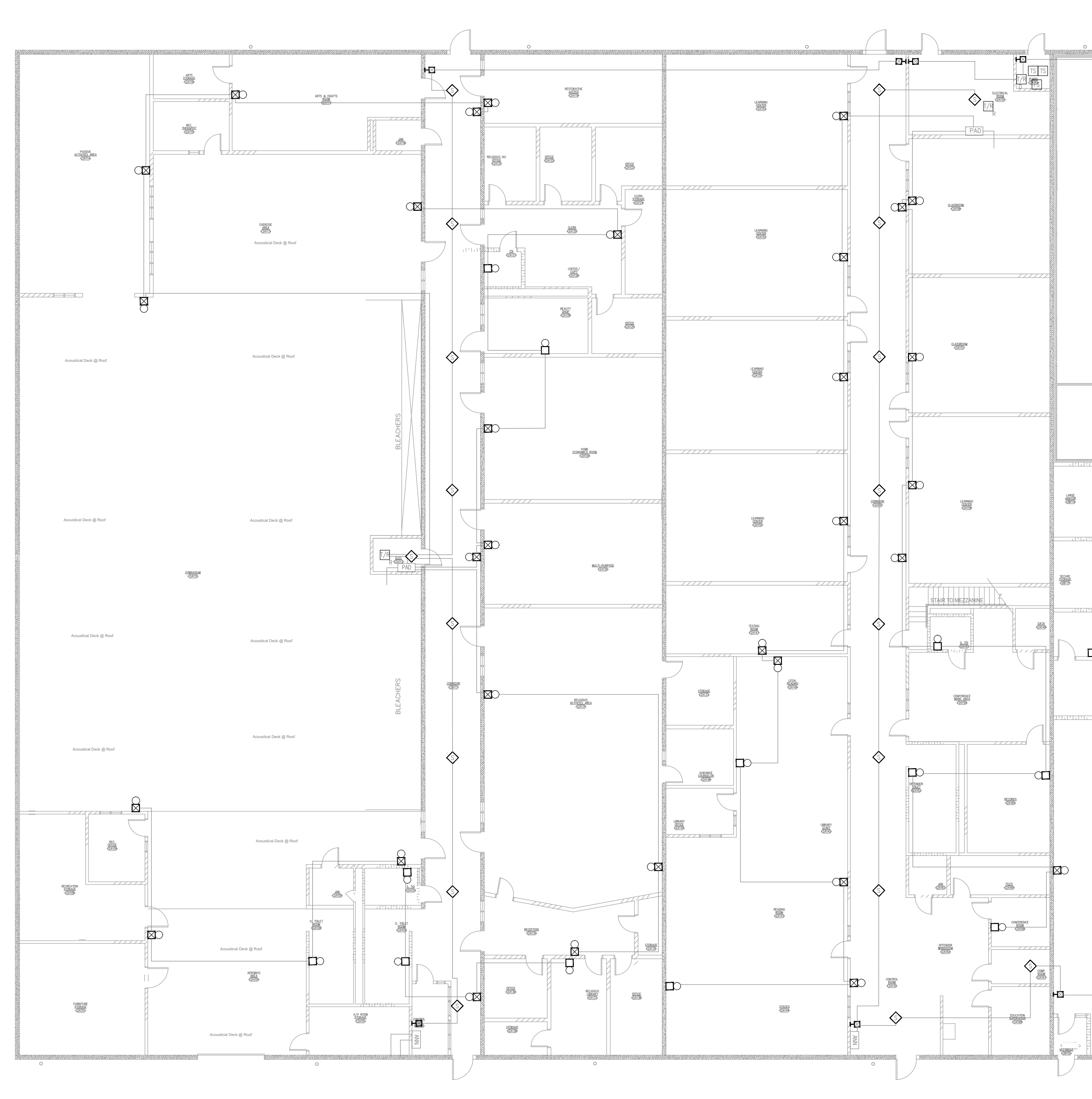
CAD DWG FILE: C2326-01-FA-FP-118  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
BUILDING #12 AREA A  
- FIRE ALARM DEMO  
PLAN

SHEET NUMBER:  
FAD-600

GENERAL NOTES

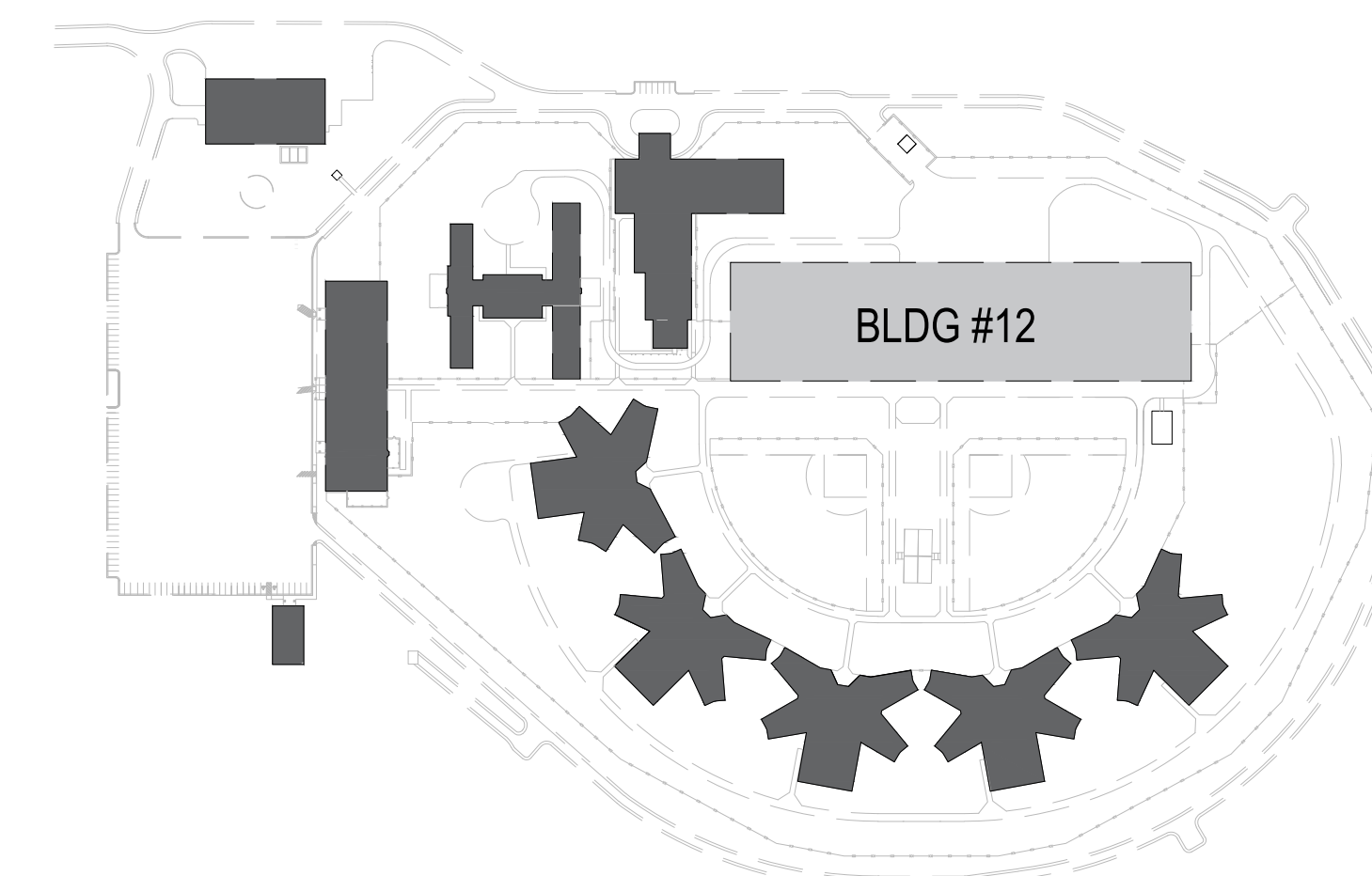
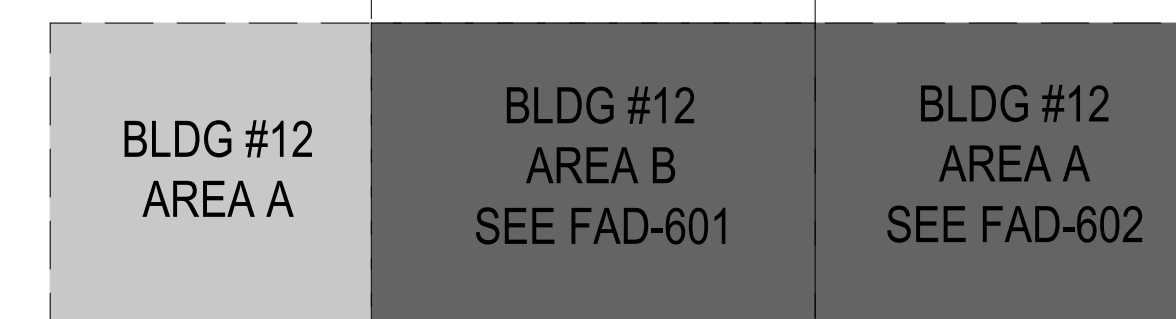
1. ALL NOTIFICATION AND DETECTION DEVICES ARE TO BE REPLACED. LOCATIONS TO BE MODIFIED AS NECESSARY TO MEET THE REQUIREMENTS OF NFPA 72. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
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**1** BUILDING #12 AREA A - FIRE ALARM DEMO PLAN  
SCALE: 1/16" = 1'-0"

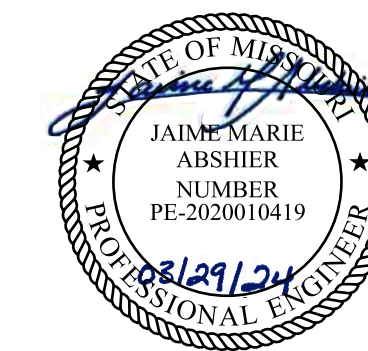


KEY PLAN



AREA PLAN





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3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
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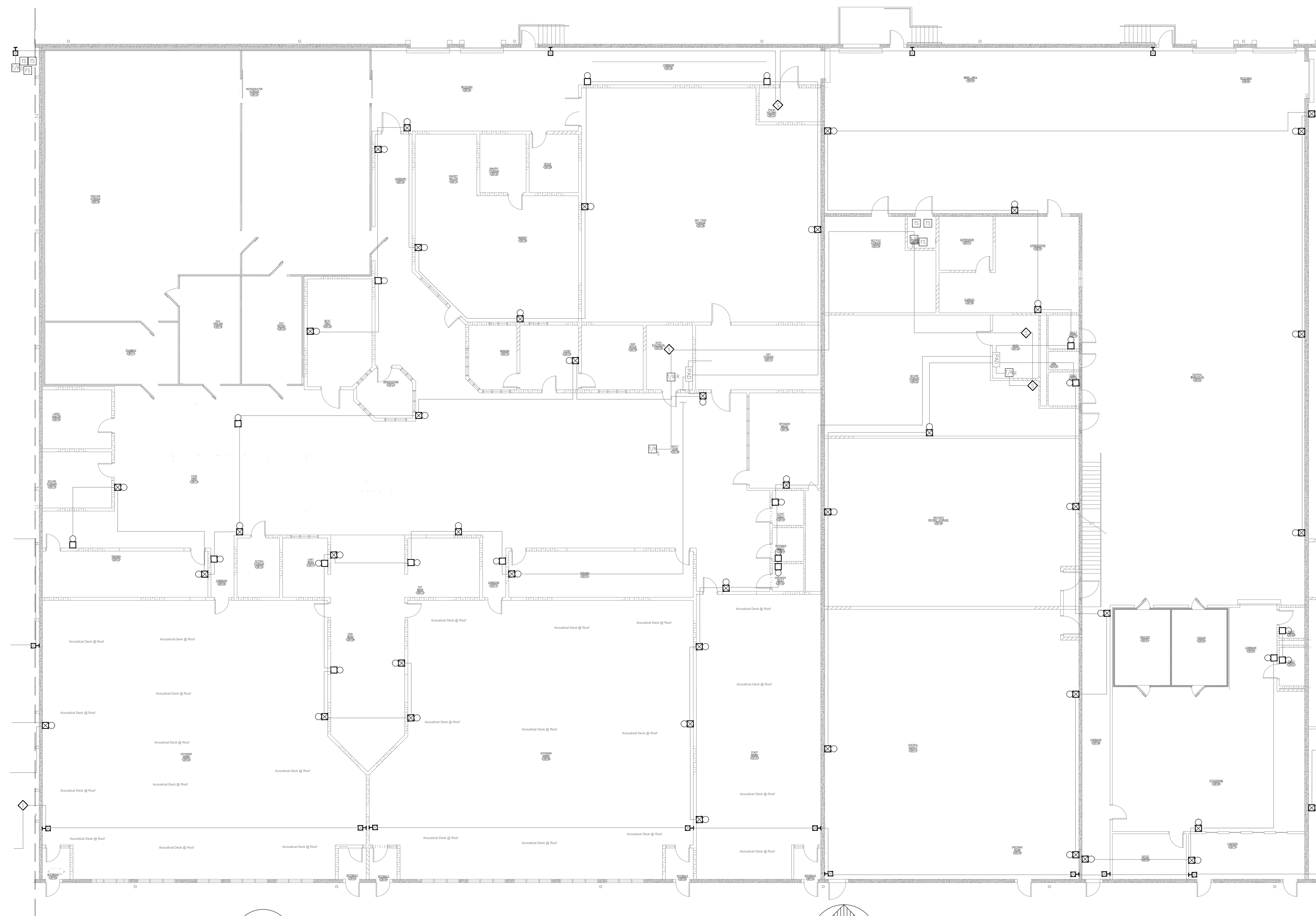
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DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
BUILDING #12 AREA B  
- FIRE ALARM DEMO  
PLAN

SHEET NUMBER:  
FAD-601

GENERAL NOTES

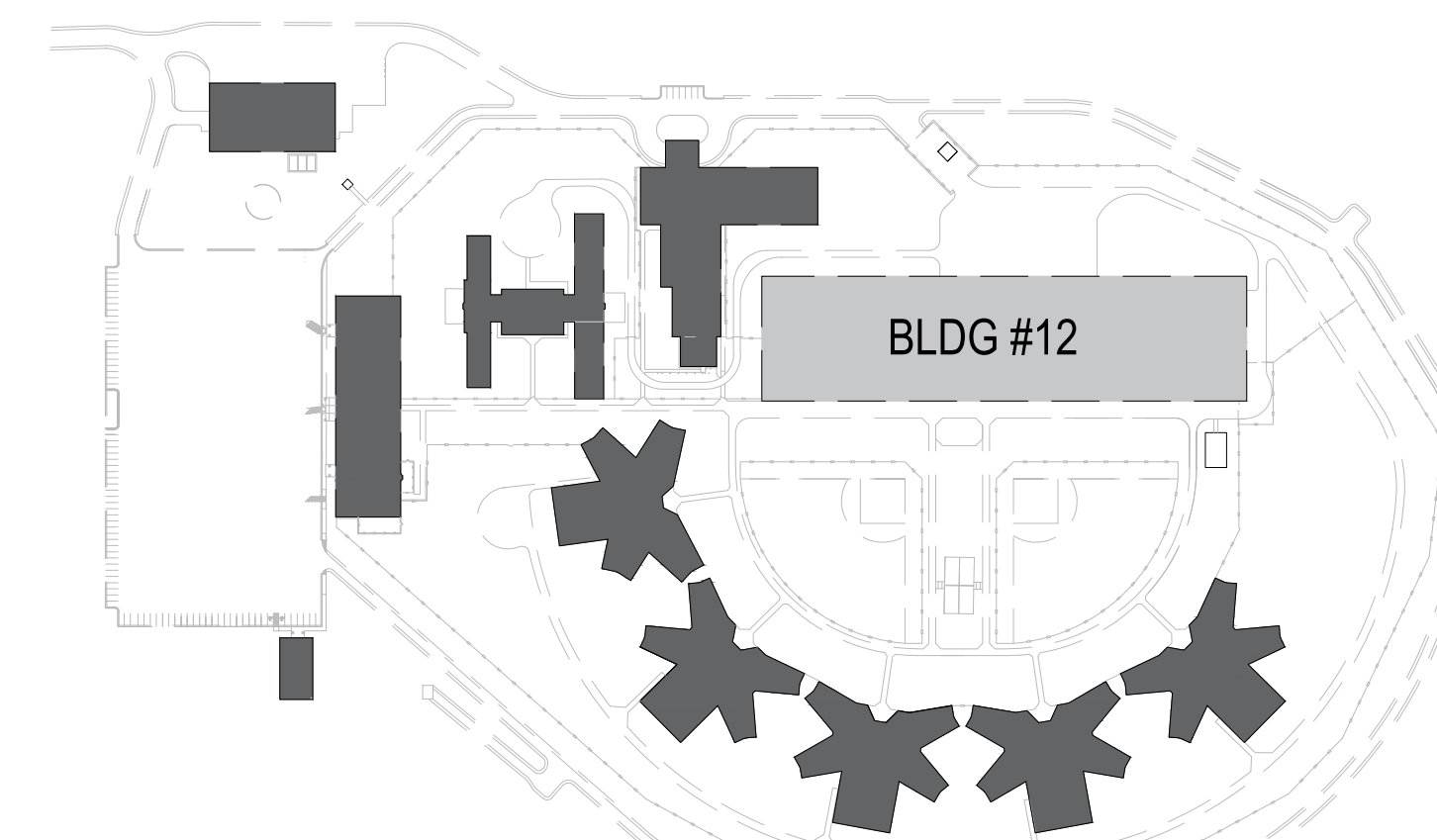
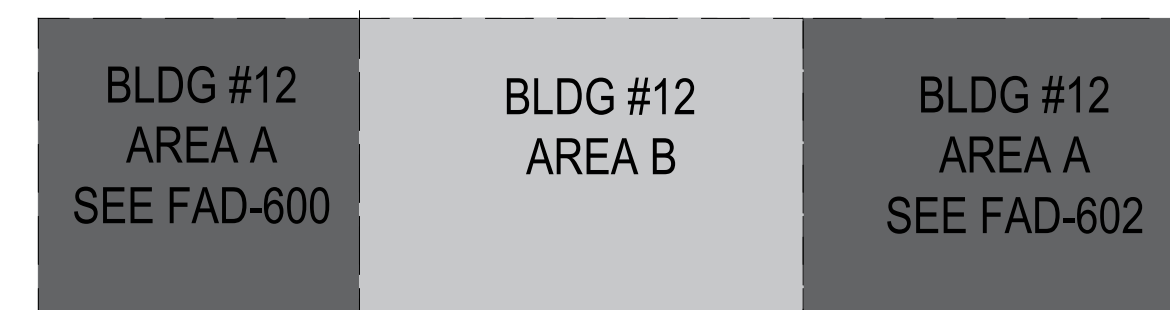
1. ALL NOTIFICATION AND DETECTION DEVICES ARE TO BE REPLACED. LOCATIONS TO BE MODIFIED AS NECESSARY TO MEET THE REQUIREMENTS OF NFPA 72. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
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1 BUILDING #12 AREA B - FIRE ALARM DEMO PLAN  
SCALE: 1/16" = 1'-0"

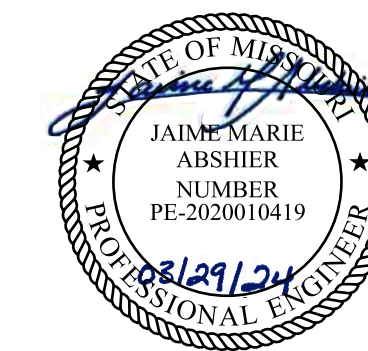


KEY PLAN



AREA PLAN





REFER TO FA-002 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.



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3151 LITTON ROAD  
CHILLICOTHE, MO 64601

PROJECT # C2326-01  
SITE # 7030  
ASSET # 9327030038

REVISION: \_\_\_\_\_  
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ISSUE DATE: 03/29/2024

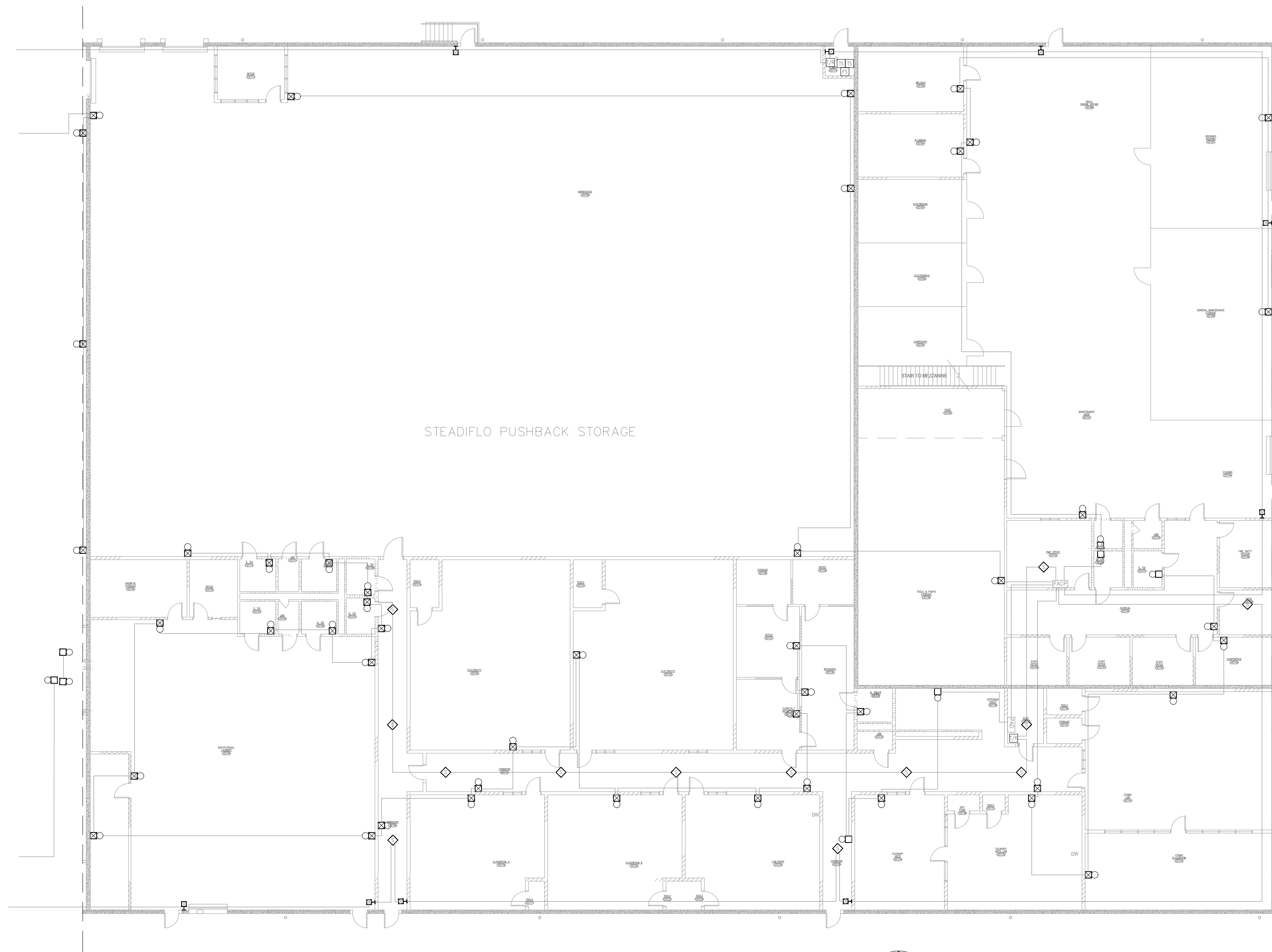
CAD DWG FILE: C2326-01-FA-FP-120  
DRAWN BY: DB  
CHECKED BY: JMA  
DESIGNED BY: FSC

SHEET TITLE:  
BUILDING #12 AREA C  
- FIRE ALARM DEMO  
PLAN

SHEET NUMBER:  
FAD-602

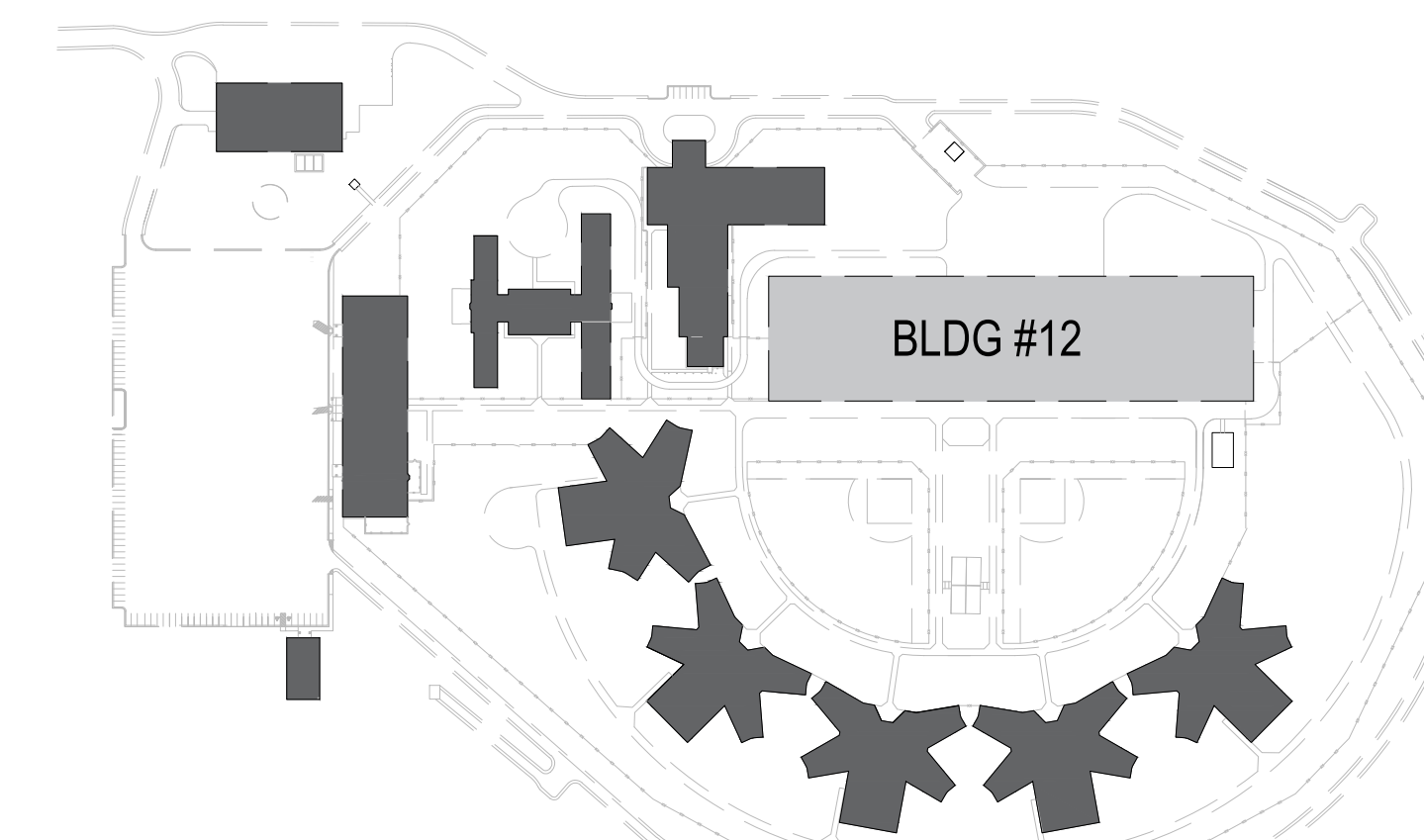
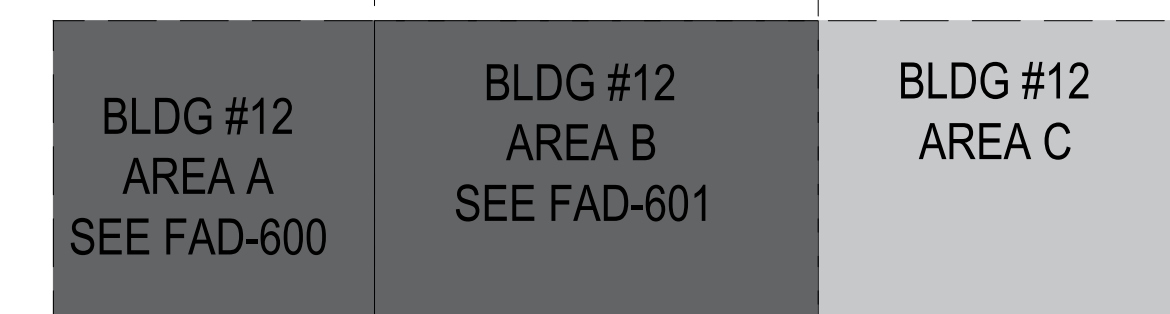
GENERAL NOTES

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**1** FIRE ALARM DEMO BUILDING 12C FIRST FLOOR  
SCALE: 1/16" = 1'-0"  
NORTH

KEY PLAN



AREA PLAN