



# ISD OUTREACH BUILDING AND ELEMENTARY BUILDING FIRE ALARM REPLACEMENT



ADMIN  
BUILDING

ELEMENTARY  
BUILDING

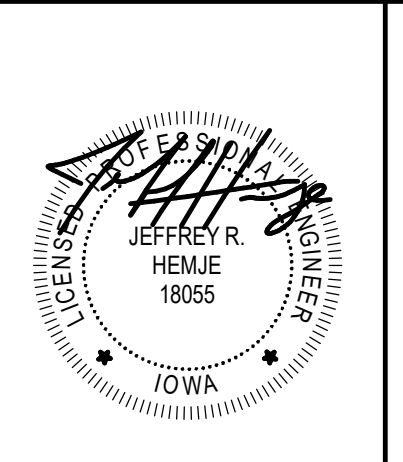
OUTREACH  
BUILDING

3501 HARRY LANGDON BLVD.  
COUNCIL BLUFFS, IA 51503  
CONSTRUCTION DRAWINGS

FEBRUARY 2, 2024  
MEI PROJECT #23266  
RFB938100-01

SHEET LIST	
Sheet Number	Sheet Name
E001	COVER SHEET
E002	FIRE ALARM DETAILS AND NOTES
ED101	OUTREACH BUILDING - FIRE ALARM DEMOLITION PLANS
ED201	ELEMENTARY SCHOOL - FIRE ALARM DEMOLITION PLANS
E101	OUTREACH BUILDING - FIRE ALARM PLANS
E201	ELEMENTARY SCHOOL - FIRE ALARM PLANS

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.


 JEFFREY R. HEME  
 18066

My license renewal date is December 31, 2025  
 Pages or sheets covered by this seal:  
 ELECTRICAL SERIES

date: 2/2/2024  
 project number: 23266  
 designed by: JRH  
 drawn by: DGM  
 sheet number: E001

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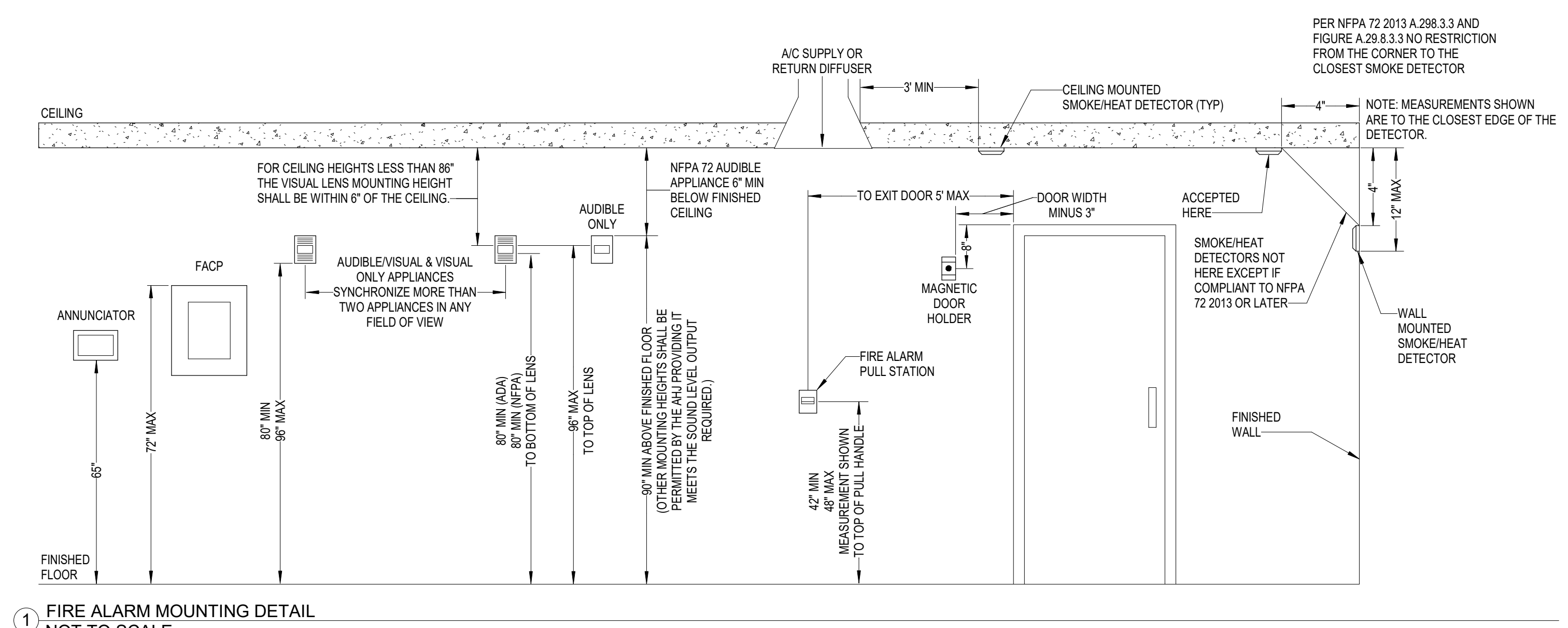
COVER SHEET

IOWA SCHOOL FOR THE DEAF  
FIRE ALARM REPLACEMENT

agency approval

FILL	DESCRIPTION
	GYP CEILING
	ACT CEILING
	OPEN CEILING

ELECTRICAL SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>FIRE ALARM</b>			
	FIRE ALARM SMOKE DETECTOR		CEILING FIRE ALARM STROBE
	FIRE ALARM HEAT DETECTOR		CEILING FIRE ALARM STROBE - AMBER
	DUCT MOUNTED SMOKE DETECTOR		CEILING FIRE ALARM STROBE - BLUE
	FIRE ALARM MANUAL PULL STATION		WALL SEVERE WEATHER STROBE
	FIRE SPRINKLER VALVE SWITCH		WALL FIRE ALARM STROBE - BLUE
	FIRE SPRINKLER FLOW SWITCH		WALL FIRE ALARM STROBE - AMBER
	FIRE ALARM CONTROL PANEL		WALL FIRE ALARM STROBE - BLUE
	FIRE ALARM ANNUNCIATOR PANEL		CEILING FIRE ALARM HORN & STROBE COMBINATION
	FIRE ALARM MAGNETIC DOOR HOLDER		CEILING FIRE ALARM SPEAKER & STROBE COMBINATION
	FIRE ALARM HORN & STROBE COMBINATION		WALL FIRE ALARM SPEAKER & STROBE COMBINATION
	FIRE ALARM HORN & STROBE COMBINATION		CEILING FIRE ALARM SPEAKER
	FIRE ALARM MANUAL PULL STATION		WALL FIRE ALARM SPEAKER
	FIRE ALARM MANUAL PULL STATION		WALL FIRE ALARM SPEAKER
<b>GENERAL</b>			
	LIGHTING FIXTURE		WALL MOUNTED JUNCTION BOX
	DISTRIBUTION PANEL, SWITCHBOARD OR MOTOR CONTROL CENTER		JUNCTION BOX
	CABINET, ENCLOSURE, SWITCH CONTROL PANEL, TYPE INDICATED ON PLANS		CONDUIT SEAL
	BRANCH CIRCUIT - EXPOSED		CONDUIT DOWN
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL		CONDUIT UP
	BRANCH CIRCUIT CONCEALED IN FLOOR		CONDUIT STUBOUT
	BRANCH CIRCUIT - CLASS TWO WIRING		CONDUIT BREAK
	HORN (TYPE, QUANTITY OF HORNS INDICATES QUANTITY OF CIRCUITS)		BELL
	SPECIAL PURPOSE HORN (TYPE AS INDICATED)		PUSH-BUTTON
	CONDUIT - CONDUIT TYPE (SEE INDICATED ON PLANS)		RICKER
	SUBSCRIPT 'WP' APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEW TYPE 'WP' EQUIPMENT		THERMOSTAT
	SUBSCRIPT 'SR' OR 'RT' APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEW TYPE 'SR' OR 'RT' EQUIPMENT		SUBSCRIPT 'E' ADDED TO ANY SYMBOL, INDICATES EXISTING
	SUBSCRIPT 'RD' ADDED TO ANY SYMBOL INDICATES REDESTAL MOUNTED		SUBSCRIPT 'R' ADDED TO ANY SYMBOL, INDICATES RELOCATED
	SUBSCRIPT 'EP' APPLIED TO ANY SYMBOL, INDICATES EXPLOSION PROOF CLASS, GROUP & DIVISION AS NOTED		WHERE TOP IS USED ON PLANS INDICATES A TYPICAL NOTE OR CONDITION
			SUBSCRIPT 'DL' ADDED TO ANY SYMBOL INDICATES DAMP LOCATION
			SUBSCRIPT 'K' ADDED TO ANY SYMBOL INDICATES KEY OPERATED
			SUBSCRIPT 'P' ADDED TO ANY SYMBOL, INDICATES PILOT LIGHT



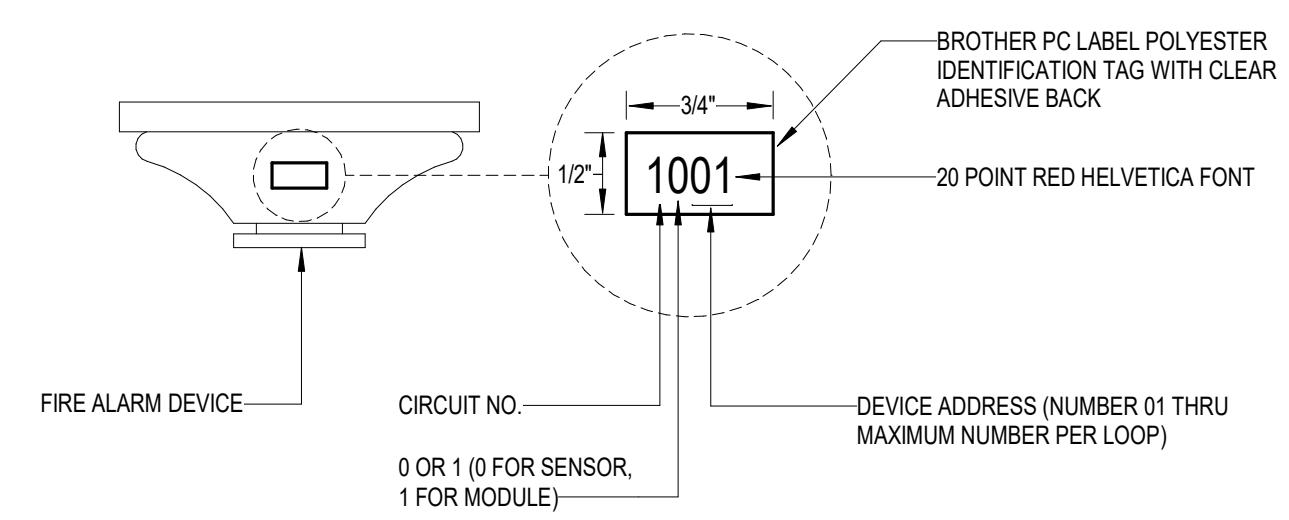
1 FIRE ALARM MOUNTING DETAIL NOT TO SCALE

**GENERAL ELECTRICAL DEMOLITION NOTES**

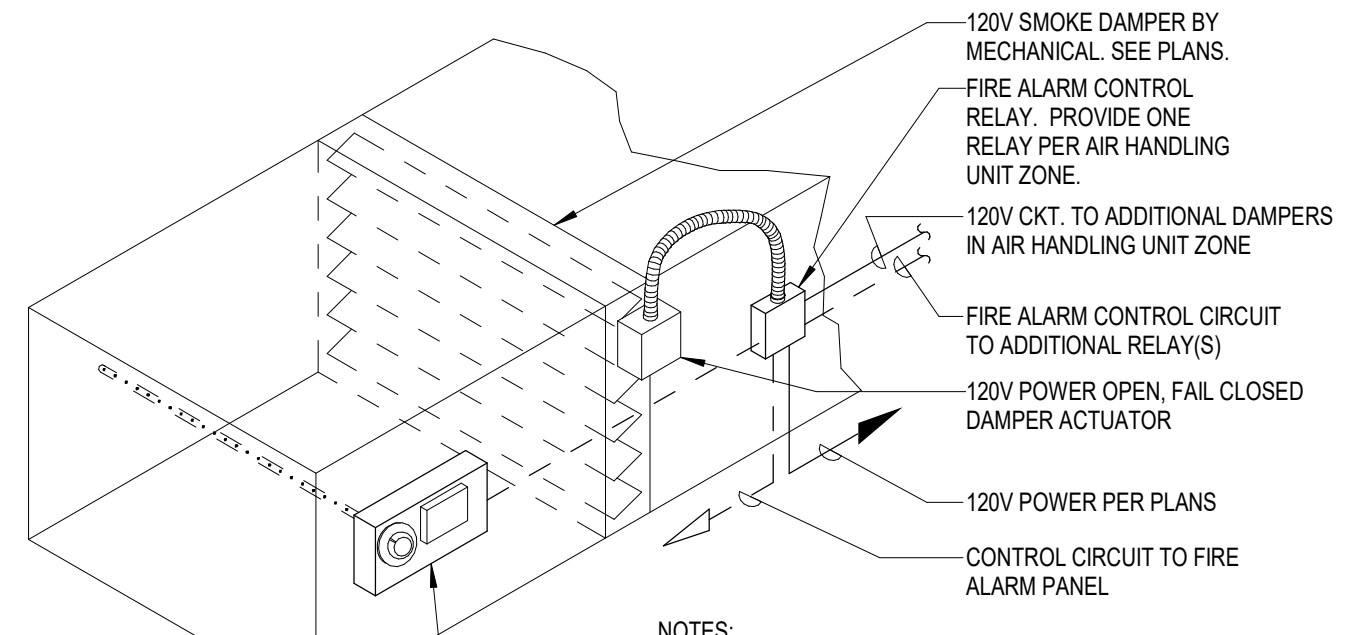
1. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL FIXTURES, DEVICES AND EQUIPMENT REMOVED.
2. WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS BACK TO THE SOURCE. ABANDON CONCEALED CONDUITS IN WALLS WHICH ARE NOT REMOVED.
3. DEMOLITION DRAWINGS INDICATE FIXTURES, DEVICES AND MAJOR PIECES OF EQUIPMENT WHICH ARE TO BE REMOVED OR RECONNECTED. REMOVE INDICATED ITEMS AND ASSOCIATED ITEMS NOT INDICATED BUT WHICH MUST BE REMOVED TO ACCOMMODATE REMODELING. SEE PROJECT MANUAL "WORK IN EXISTING BUILDINGS" FOR ADDITIONAL INFORMATION.
4. ALL EXISTING ELECTRICAL DEVICES, FIXTURES, EQUIPMENT, WIRING AND RACEWAYS INCLUDING DATA/COMMUNICATION SYSTEMS SHALL BE REMOVED UNLESS OTHERWISE INDICATED. WHERE EXISTING WALLS ARE TO BE REMOVED ALL ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE REMOVED. DISCONNECT POWER TO THAT DEVICES AND EQUIPMENT MAY BE REMOVED WITH WALLS. SEE ARCHITECTURAL DRAWINGS FOR WALLS TO BE REMOVED. ABANDON CONCEALED CONDUITS WHERE WALLS ARE NOT REMOVED. REUSE CONDUITS WHERE POSSIBLE. DEMOLITION IS NOT INDICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO THE BID DATE.
5. REMOVE EXISTING FIRE ALARM DEVICES AND WIRING. THE CONTRACTOR MAY REUSE CONDUIT AND BOXES WHERE POSSIBLE FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. SEE PROJECT MANUAL AND NEW WORK DRAWINGS.
6. SUBSCRIPT 'E' INDICATES AN EXISTING FIXTURE OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING CONTINUITY UNLESS NOTED OTHERWISE.
7. SUBSCRIPT 'R' INDICATES AN EXISTING FIXTURE OR DEVICE SCHEDULED FOR RELOCATION. REMOVE EXISTING FIXTURE OR DEVICE AND SALVAGE FOR REUSE. SEE NEW WORK PLANS FOR NEW LOCATION AND RECONNECT AS REQUIRED.
8. UPDATE ALL PANELBOARD DIRECTORIES IMPACTED BY ELECTRICAL WORK.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING, AND REPLACEMENT OF ALL EXISTING WALLS, CEILING, FLOORS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF NEW ELECTRICAL WORK.

**GENERAL FIRE ALARM NOTES**

1. ALL FIRE ALARM WIRING SHALL BE RAN IN CONDUIT. IN EXPOSED STRUCTURE AREAS, ROUTE CONDUIT TIGHT TO DECK. CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER AND GROUPED WHERE POSSIBLE. PAINT EXPOSED CONDUIT TO MATCH STRUCTURE IN FINISHED AREAS WITHOUT A CEILING.
2. PROVIDE ELECTRICAL CONNECTIONS TO SMOKE AND FIRE/SMOKE DAMPERS INCLUDING POWER AND FIRE ALARM. PROVIDE A DUCT MOUNTED SMOKE DETECTOR WITH 2'-0" OF SMOKE DAMPER PER IMC 607.3.3.2. PROVIDE 120V CONNECTION FROM LOCKABLE CIRCUIT BREAKER IN NEAREST 120V PANEL WITH A MAXIMUM OF 6 PER 20A TP CIRCUIT. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.



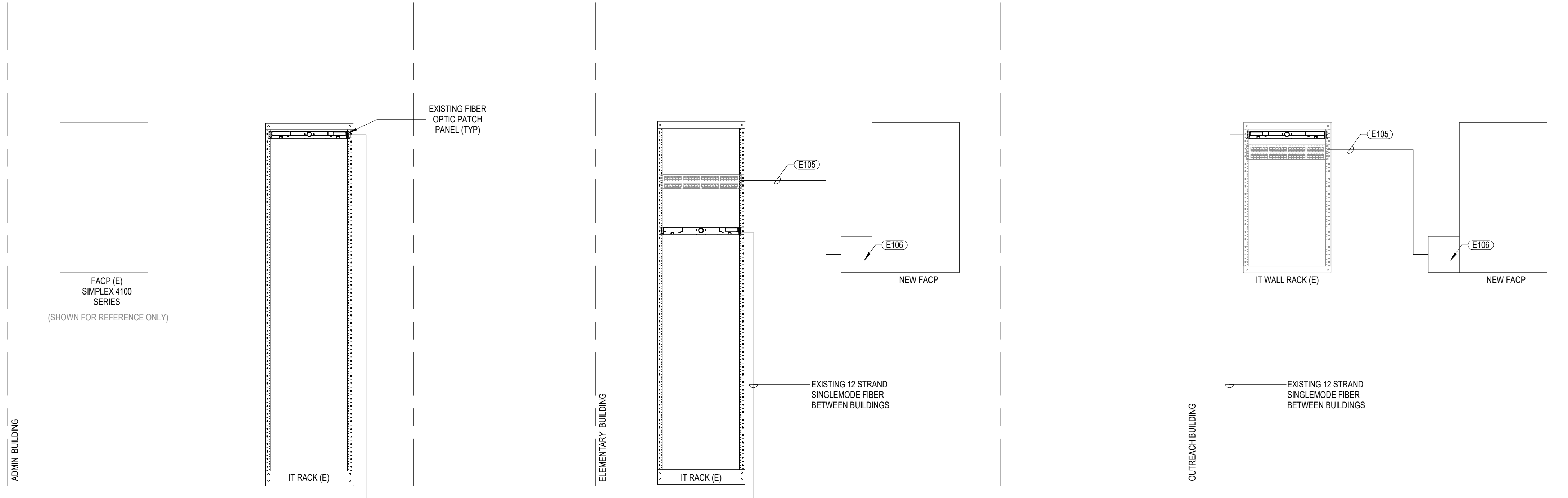
2 DETECTOR LOCATION MARKER DETAIL NOT TO SCALE



3 FIRE/SMOKE DAMPER CONNECTION DETAIL NOT TO SCALE

**KEYNOTES**

- E105 PROVIDE ONE CAT 6 CABLE FROM NEW FIRE ALARM PANEL TO EXISTING IT RACK FOR IP DIALER COMMUNICATION. TERMINATE TO EXISTING
- E106 IP DIALER (ADJACENT TO FACP). REFER TO SPECIFICATIONS.



5 FIRE ALARM CONNECTIVITY SCHEMATIC 12' = 1'-0"

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**FIRE ALARM DETAILS AND NOTES**  
**IOWA SCHOOL FOR THE DEAF**  
**FIRE ALARM REPLACEMENT**

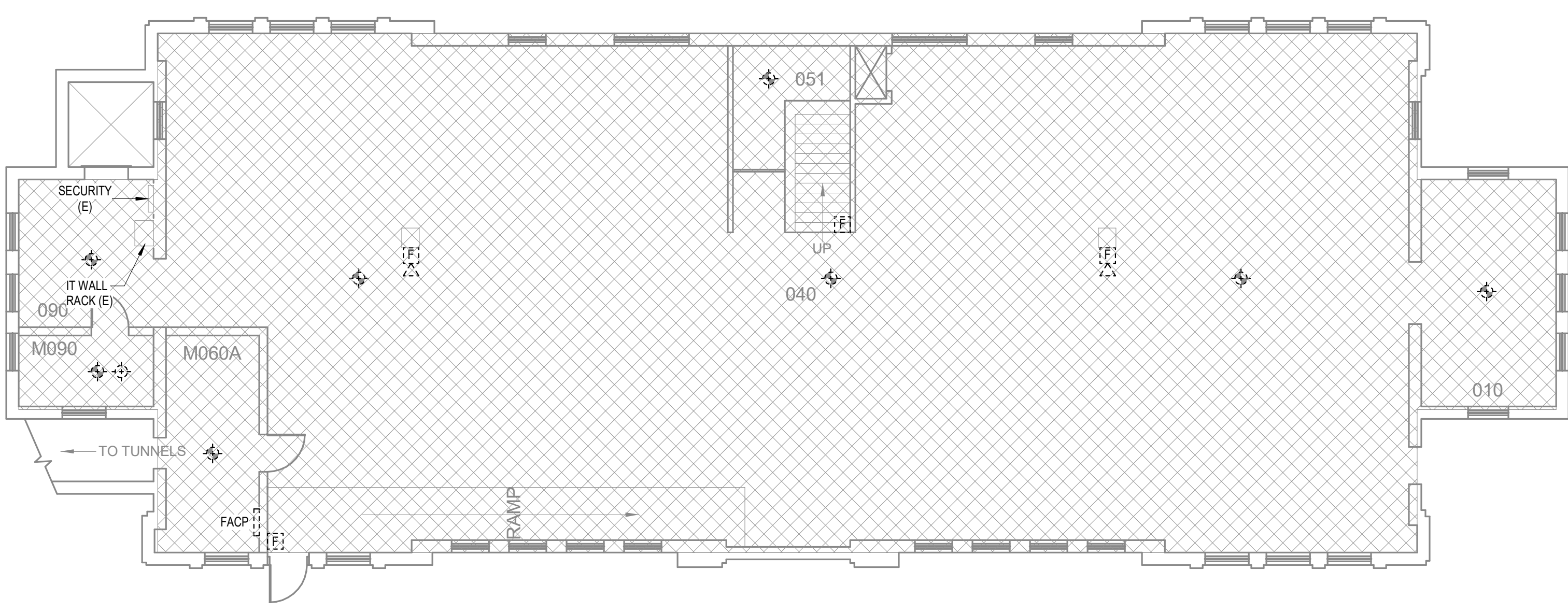
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date: 2/2/2024  
 project number: 23206  
 designed by: JRH  
 drawn by: DGM  
 sheet number:

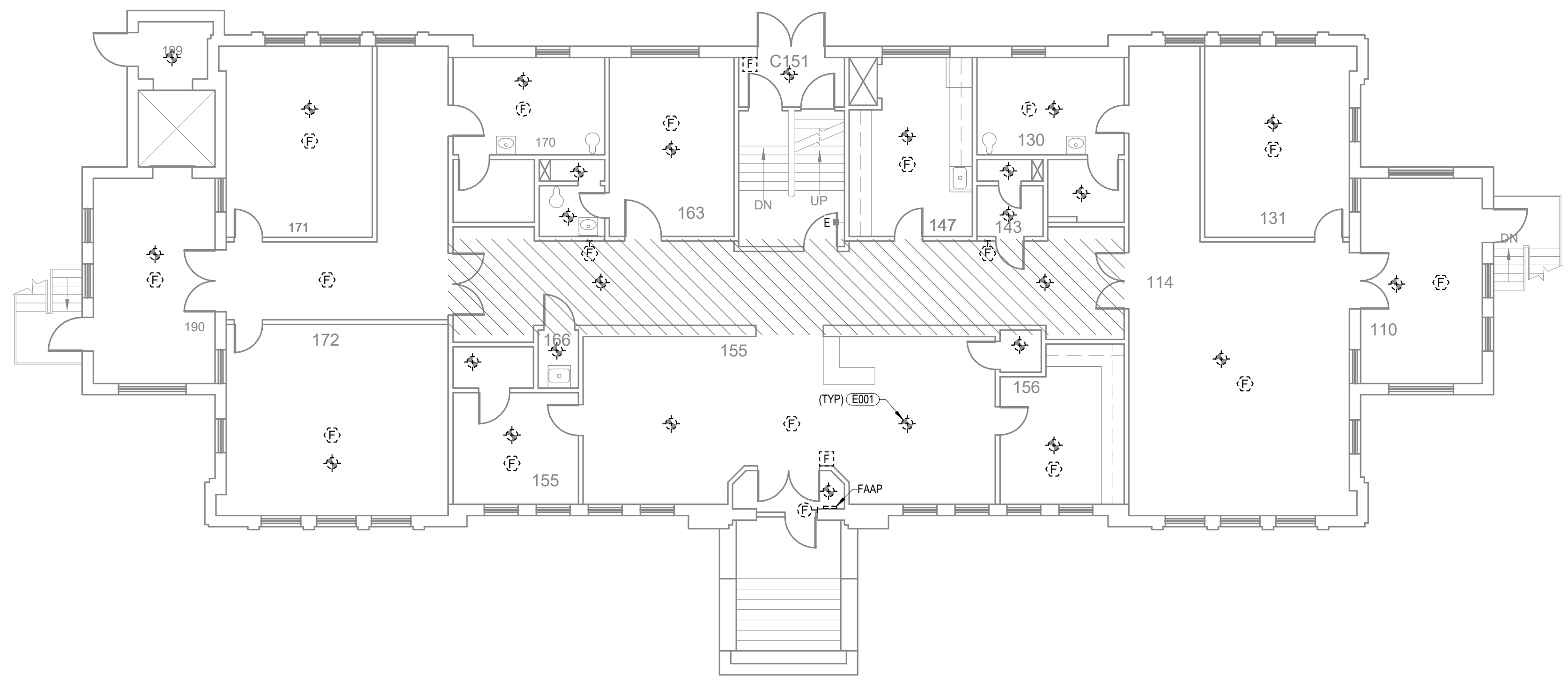
**KEYNOTES**  
E001 REMOVE EXISTING DEVICE AND ASSOCIATED WIRING COMPLETE.

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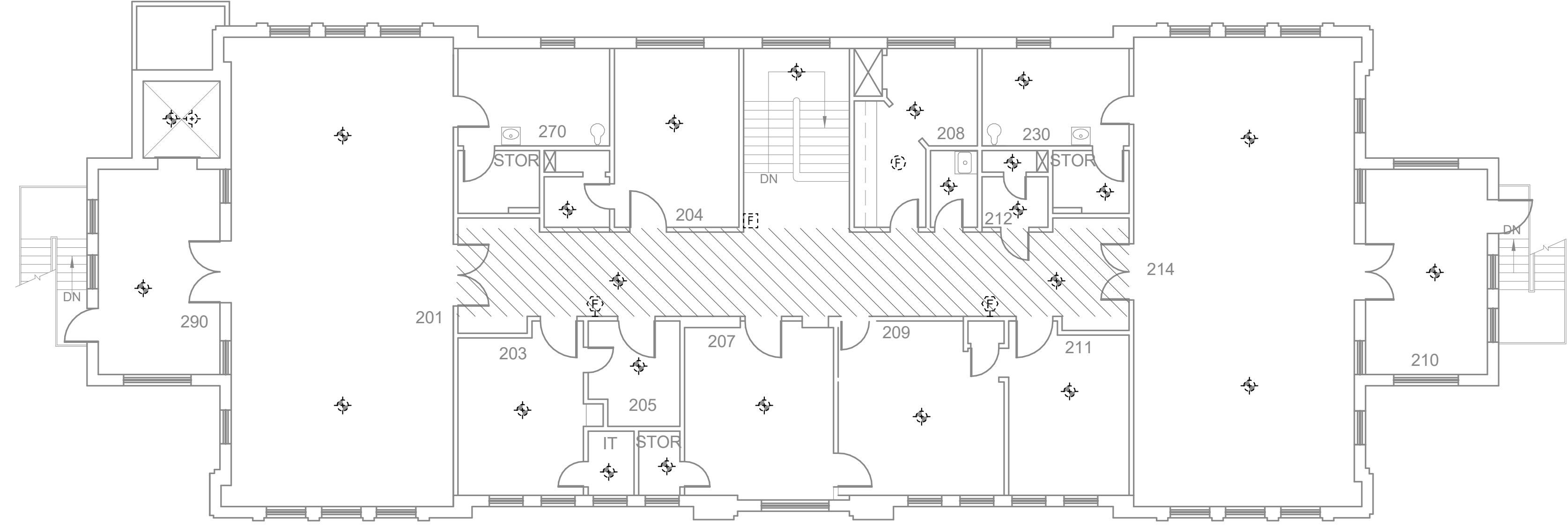
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Nebraska COA Number: CA-0035  
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1 OUTREACH BUILDING - BASEMENT - FIRE ALARM DEMOLITION  
1/8" = 1'-0"



2 OUTREACH BUILDING - FIRST FLOOR - FIRE ALARM DEMOLITION  
1/8" = 1'-0"



3 OUTREACH BUILDING - SECOND FLOOR - FIRE ALARM DEMOLITION  
1/8" = 1'-0"

MARK	REVISION	DATE

**OUTREACH BUILDING - FIRE ALARM DEMOLITION PLANS**  
**IOWA SCHOOL FOR THE DEAF FIRE ALARM REPLACEMENT**

agency approval

date:	2/2/2024
project number:	23206
designed by:	JRH
drawn by:	DGM
sheet number:	ED101

**KEYNOTES**

E001 REMOVE EXISTING DEVICE AND ASSOCIATED WIRING COMPLETE.

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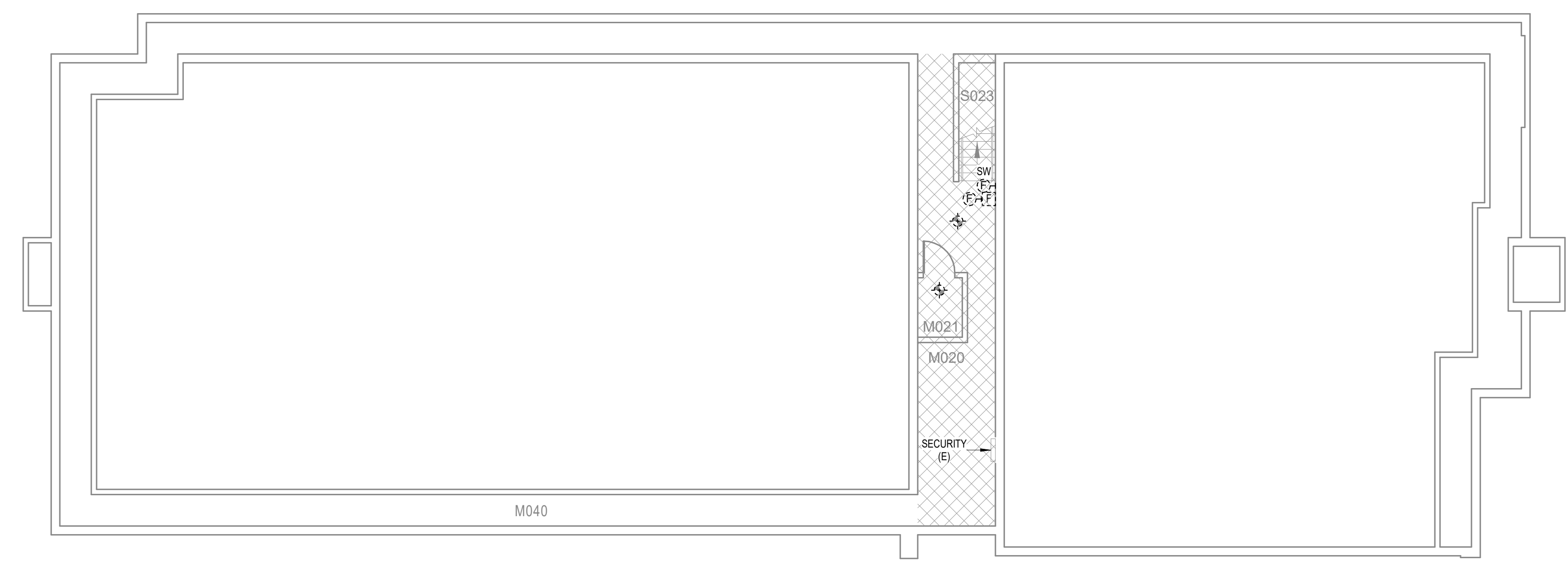
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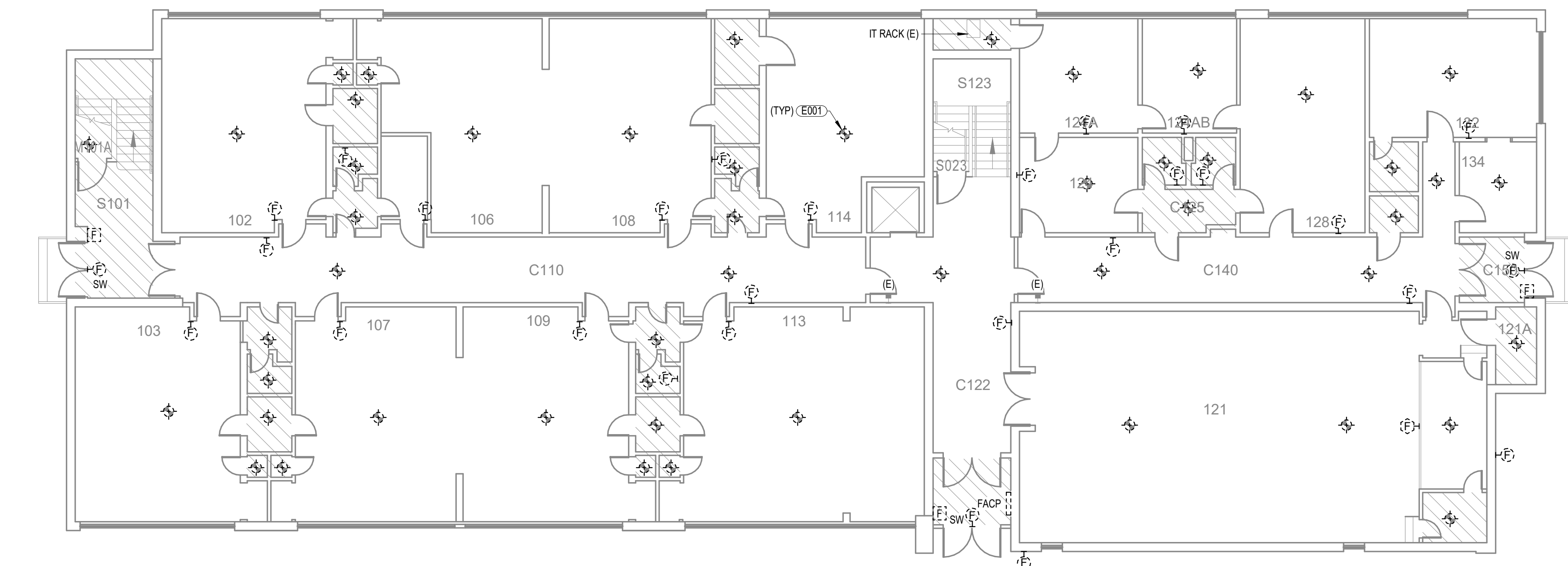
**ELEMENTARY SCHOOL - FIRE ALARM DEMOLITION PLANS****IOWA SCHOOL FOR THE DEAF  
FIRE ALARM REPLACEMENT**

agency approval

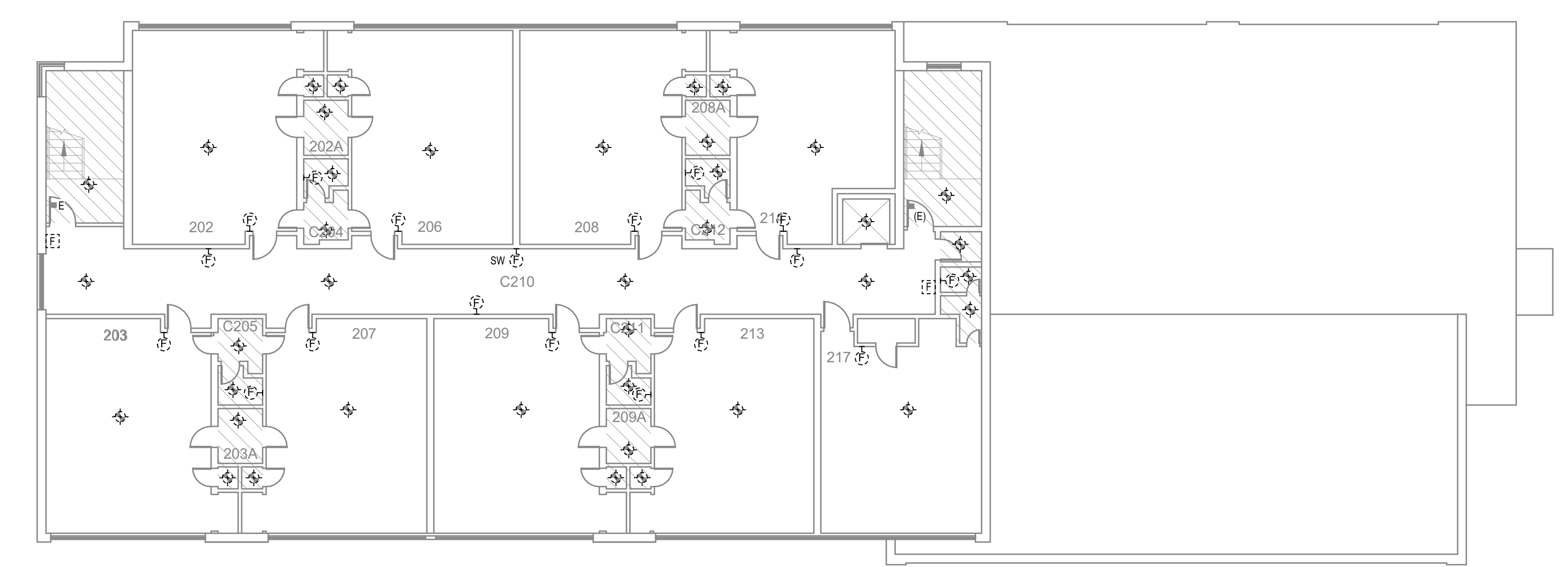
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drawn by:	DGM
sheet number:	



1 ELEMENTARY SCHOOL - BASEMENT - FIRE ALARM DEMOLITION  
1/8" = 1'-0"



2 ELEMENTARY SCHOOL - FIRST FLOOR - FIRE ALARM DEMOLITION  
1/8" = 1'-0"



3 ELEMENTARY SCHOOL - SECOND FLOOR - FIRE ALARM DEMOLITION  
1/8" = 1'-0"

**KEYNOTES**

- E101 PROVIDE ONE CAT 6 DATA CABLE FROM FIRE ALARM CONTROL PANEL TO IT NETWORK FOR CONNECTION TO IP DIALER. COORDINATE DIALER CONNECTIONS AND NETWORK CONFIGURATIONS WITH OWNER'S IT REPRESENTATIVE.
- E102 LABEL 'EV' DENOTES CONNECTION TO ELEVATOR RECALL SYSTEM. PROGRAM FIRE ALARM SYSTEM TO INITIATE ELEVATOR RECALL UPON SMOKE DETECTION. DETECTORS AT LANDINGS SHALL CAUSE THE ELEVATOR TO RETURN TO AN ALTERNATE LEVEL. DESIGNATED AND ALTERNATE LEVELS TO BE DETERMINED BY THE ELEVATOR INSPECTOR AND FIRE MARSHAL.
- E104 COORDINATE FIRE ALARM WITH ACCESS CONTROL SYSTEM TO RELEASE DOORS UPON ACTIVATION OF FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH A&U.

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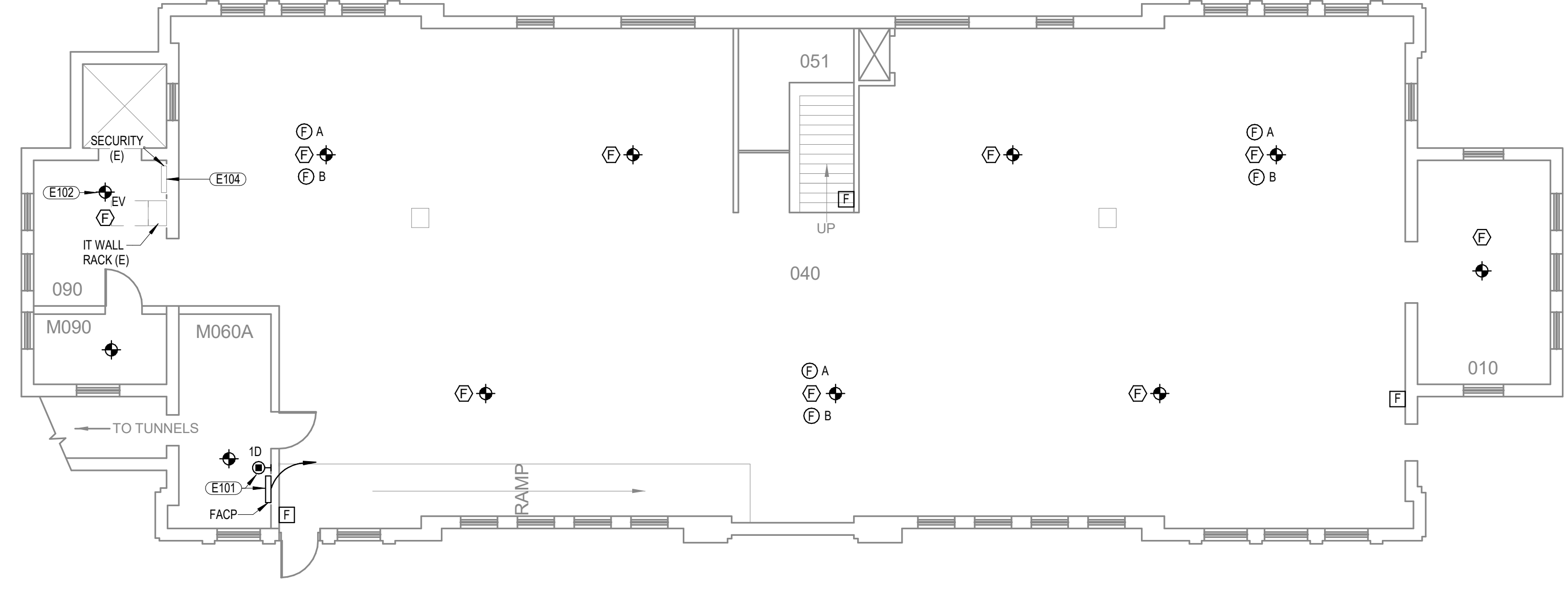
**OUTREACH BUILDING - FIRE ALARM PLANS**

**IOWA SCHOOL FOR THE DEAF  
 FIRE ALARM REPLACEMENT**

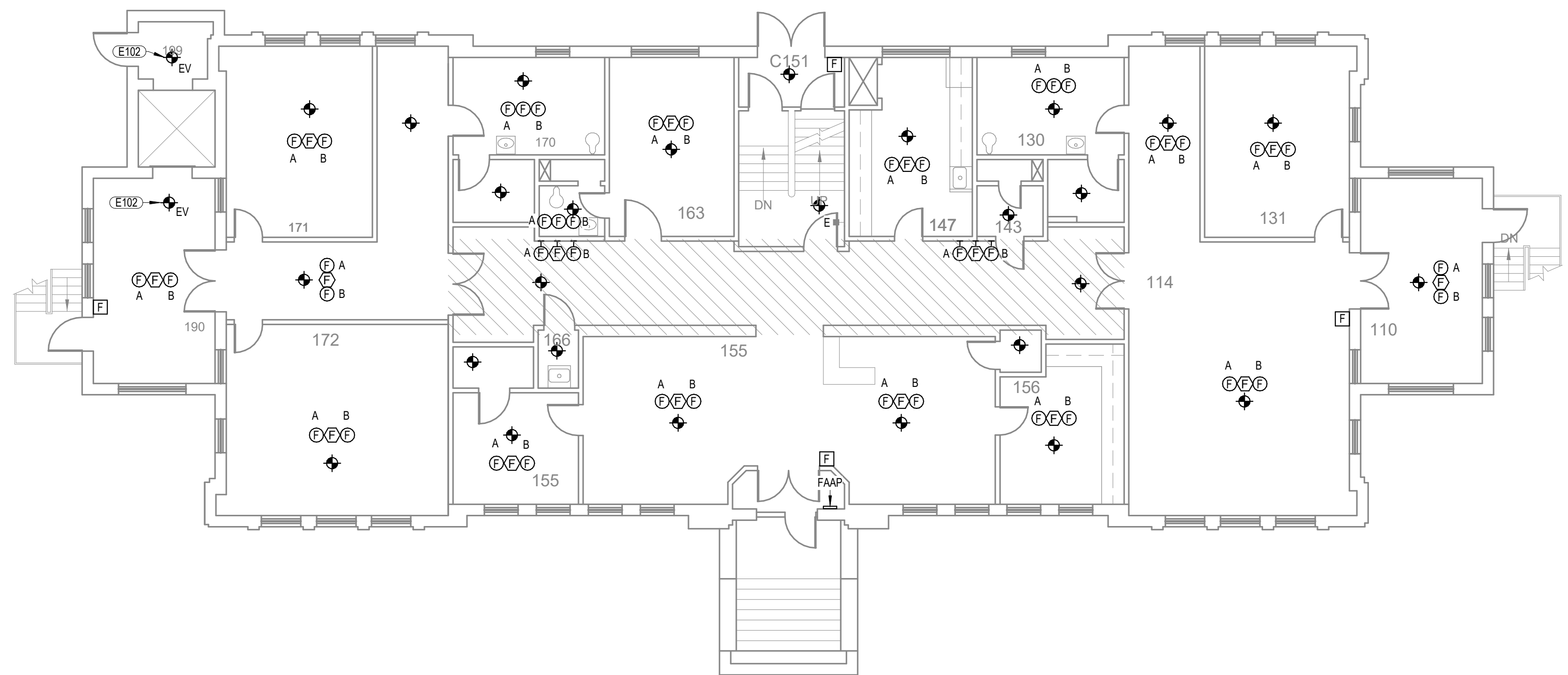
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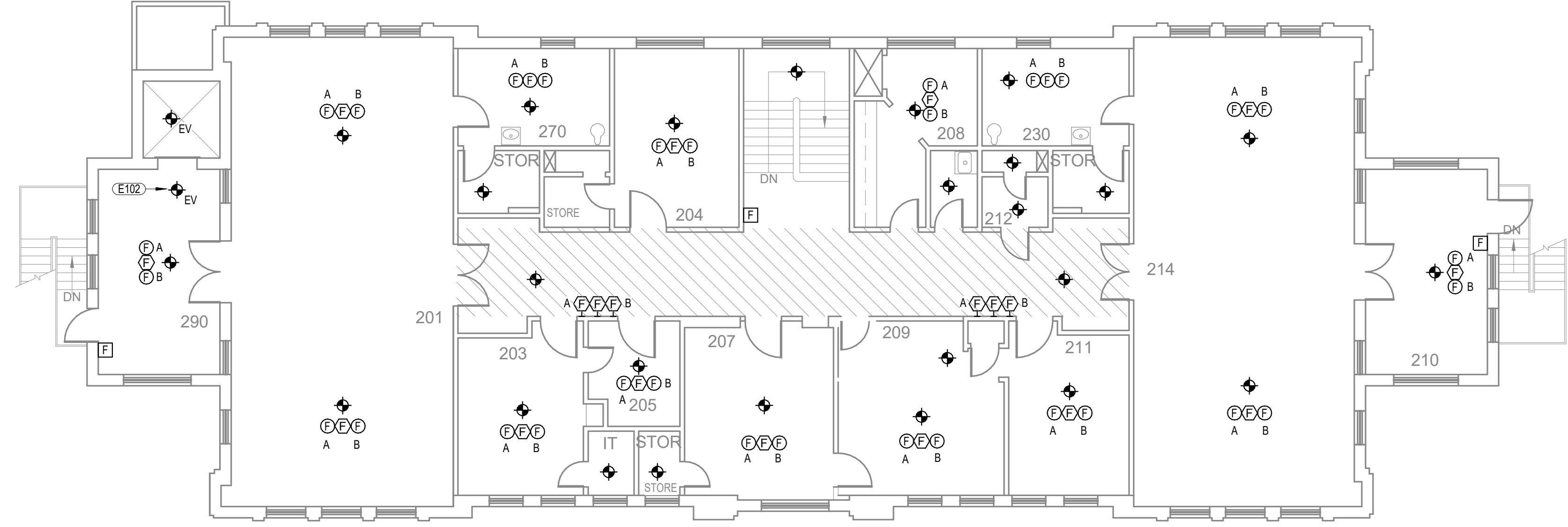
**E101**



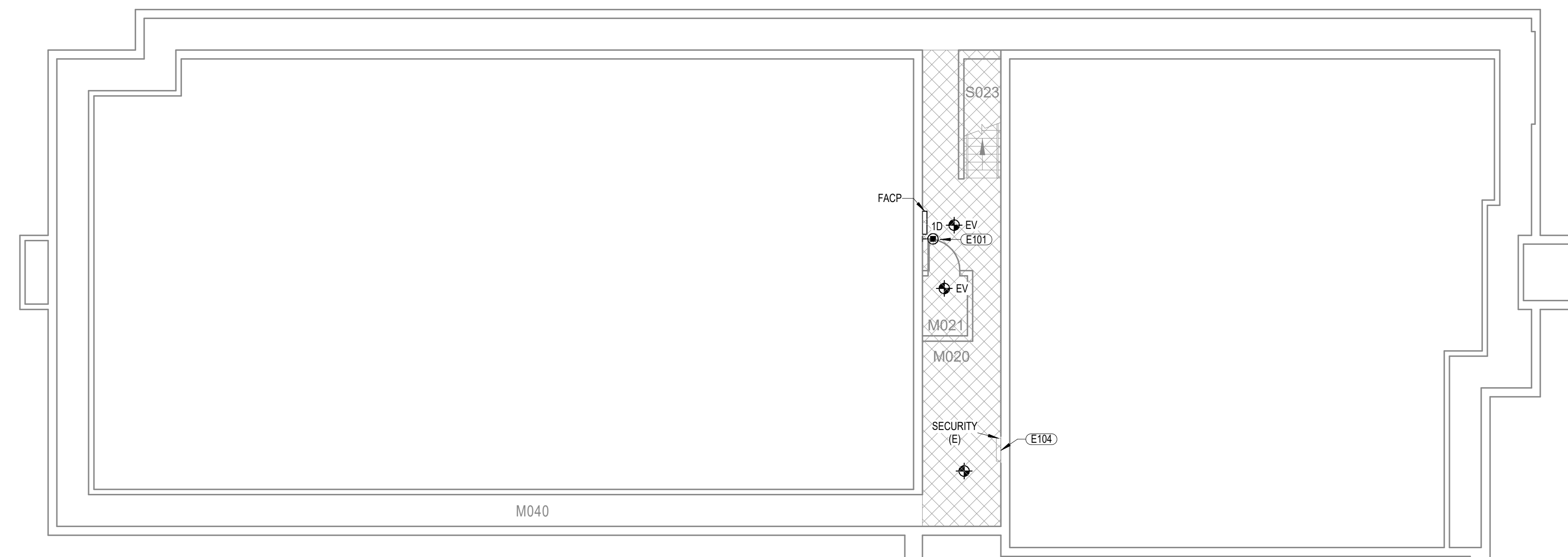
① OUTREACH BUILDING - BASEMENT - FIRE ALARM  
 1/8" = 1'-0"



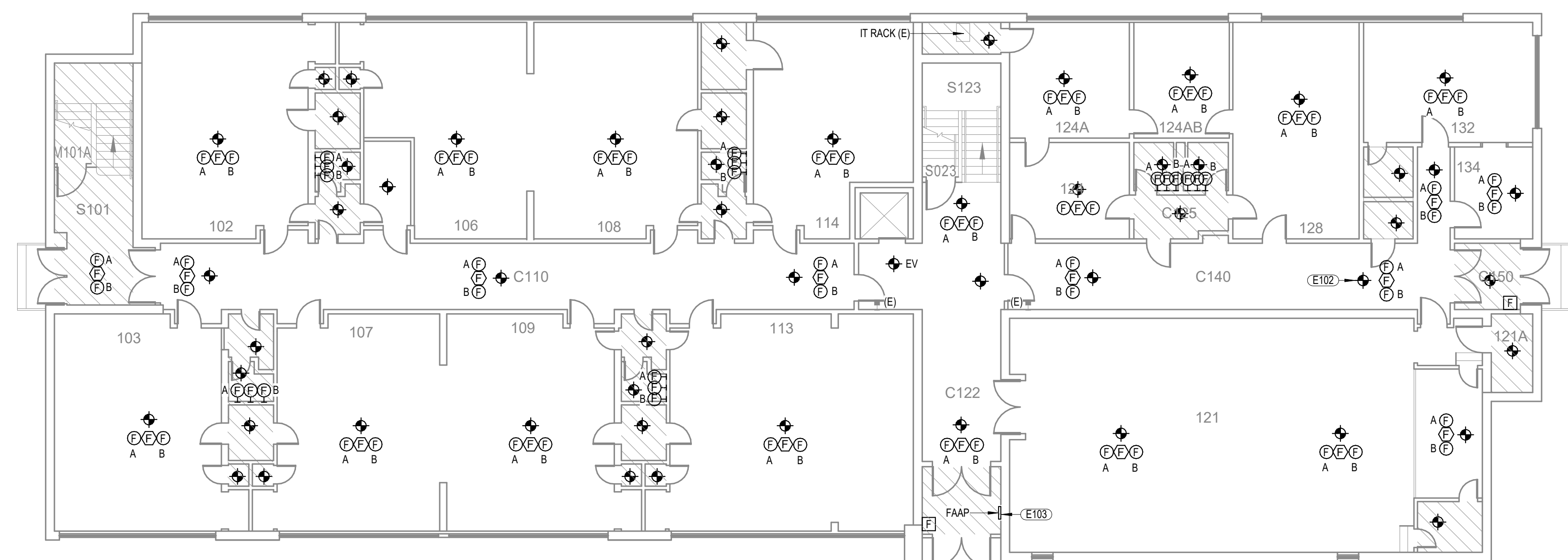
② OUTREACH BUILDING - FIRST FLOOR - FIRE ALARM  
 1/8" = 1'-0"



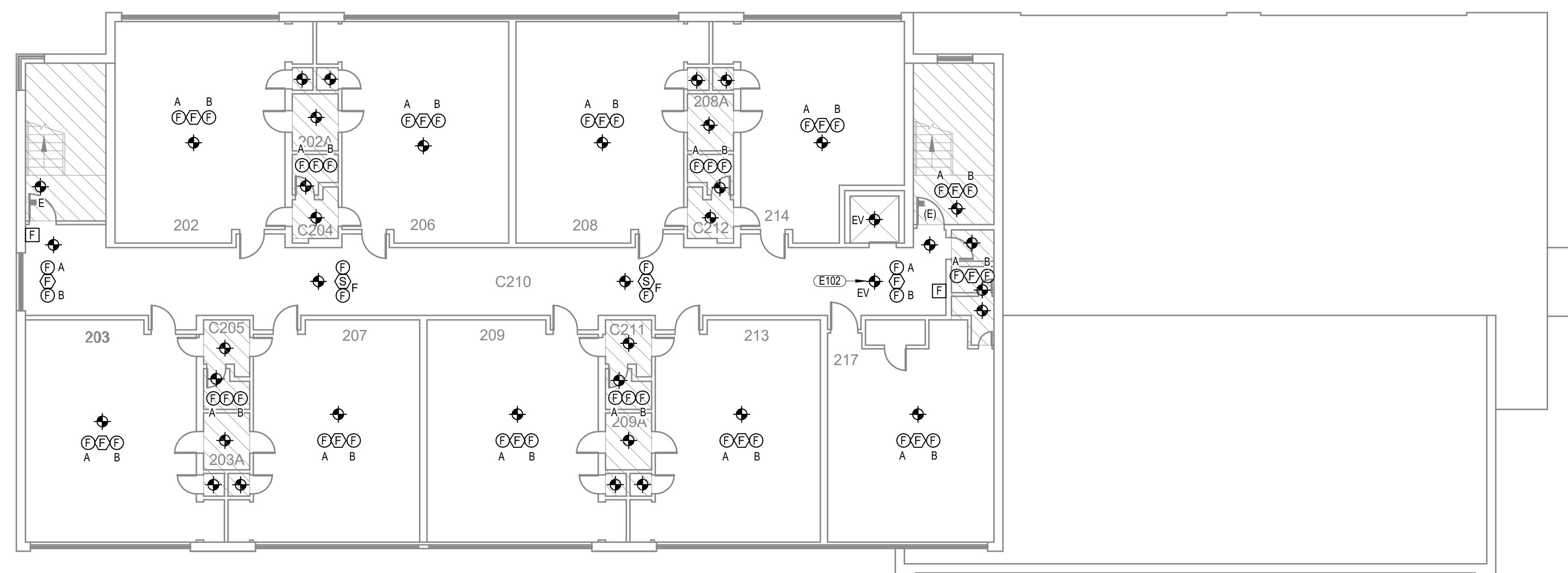
③ OUTREACH BUILDING - SECOND FLOOR - FIRE ALARM  
 1/8" = 1'-0"



1 ELEMENTARY SCHOOL - BASEMENT - FIRE ALARM  
1/8" = 1'-0"



2 ELEMENTARY SCHOOL - FIRST FLOOR - FIRE ALARM  
1/8" = 1'-0"



3 ELEMENTARY SCHOOL - SECOND FLOOR - FIRE ALARM  
1/8" = 1'-0"

**KEYNOTES**

- E101 PROVIDE ONE CAT 6 DATA CABLE FROM FIRE ALARM CONTROL PANEL TO IT NETWORK FOR CONNECTION TO IP DALER. COORDINATE DALER CONNECTIONS AND NETWORK CONFIGURATIONS WITH OWNERS IT REPRESENTATIVE.
- E102 LABEL EV DENOTES CONNECTION TO ELEVATOR RECALL SYSTEM PROGRAM FIRE ALARM SYSTEM TO INITIATE ELEVATOR RECALL UPON SMOKE DETECTION. DETECTORS AT LANDINGS SHALL CAUSE THE ELEVATOR TO RETURN TO AN ALTERNATE LEVEL. DESIGNATED AND ALTERNATE LEVELS TO BE DETERMINED BY THE ELEVATOR INSPECTOR AND FIRE MARSHAL.
- E103 PROVIDE NEW FIRE ALARM ANNIUNCIATOR AT LOCATION OF OLD FIRE ALARM PANEL. PATCH / REPAIR / PAINT WALL SURFACE WHERE OLD PANEL WAS LOCATED.
- E104 COORDINATE FIRE ALARM WITH ACCESS CONTROL SYSTEM TO RELEASE DOORS UPON ACTIVATION OF FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH AHJ.



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**ELEMENTARY SCHOOL - FIRE ALARM PLANS**

**IOWA SCHOOL FOR THE DEAF  
FIRE ALARM REPLACEMENT**

agency approval

date: 2/2/2024  
project number: 23206  
designed by: JRH

drawn by: DGM

sheet number:  
**E201**