











**ELECTRICAL SYMBOLS LEGEND**

**LUMINAIRE SYMBOLS: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL REQUIREMENTS. LETTER DESIGNATES TYPE.**

- CEILING MOUNTED LUMINAIRE
- WALL OR CEILING MOUNTED LINEAR LUMINAIRE
- EMERGENCY LUMINAIRE
- ROUND, CEILING MOUNTED LUMINAIRE, SIZE AS SHOW ON PLANS AND AS SCHEDULED
- WALL MOUNTED SCONCE TYPE LUMINAIRE
- TRACK LIGHTING, PROVIDE NUMBER OF LIGHTING HEADS AS INDICATED
- EXIT LIGHT, BATTERY POWERED, UON, SHADED QUADRANTS INDICATE FACES. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING. ARROWS INDICATE DIRECTION ARROWS.
- EMERGENCY BATTERY LUMINAIRE, WALL MOUNTED, 90 MINUTES BATTERY POWERED. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING/CONTROLS UON.
- REMOTE MOUNTED EMERGENCY LIGHTING HEADS
- POLE-MOUNTED SITE LUMINAIRE
- DISCONNECT SWITCH - HEAVY DUTY, UNFUSED WITH CURRENT RATING
- ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, CURRENT RATING/FUSE SIZE
- PANELBOARD (PANEL)
- NONFUSED DISC ATT
- COMBINATION STARTER
- ADJUSTABLE SPEED DRIVE (VFD)
- MOTOR
- UTILITY POLE
- JUNCTION BOX
- DUPLEX RECEPTACLE, NEMA 5-20R
- DUPLEX RECEPTACLE, NEMA 5-20R SUBSCRIPT INDICATES SECURITY WALL PLATE
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R, WITH COMMUNICATION/DATA CAPABILITY
- DUPLEX RECEPTACLE, NEMA 5-20R SUBSCRIPT INDICATES THE FOLLOWING:  
S SECURITY WALL PLATE  
GFI GROUND FAULT CIRCUIT INTERRUPTER  
WP GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHERPROOF COVER  
H HOSPITAL GRADE  
EWC ELECTRIC WATER COOLER. WIRE TO GFCI BREAKER  
IG ISOLATED GROUND  
AC ABOVE COUNTER
- SPECIAL PURPOSE RECEPTACLE, FOR ELECTRICAL EQUIPMENT. REFER TO PLANS FOR NEMA CONFIGURATION.
- FACTORY WIRED PLUGMOLD
- SINGLE-POLE WALL SWITCH
- 3-WAY WALL SWITCH
- 4-WAY WALL SWITCH

- DIMMER SWITCH, TYPE SHALL MATCH LUMINAIRE BEING CONTROLLED
- SINGLE-POLE WALL SWITCH WITH PILOT LIGHT (LIT WHEN IN THE ON POSITION)
- SINGLE-POLE MOTOR RATED SWITCH, A "2" SUBSCRIPT INDICATES A 2-POLE SWITCH.
- WALL SWITCH, SUBSCRIPT INDICATES ASSOCIATED LUMINAIRE BEING CONTROLLED. PROVIDE A SEPARATE SWITCH FOR EACH SUBSCRIPT LETTER INDICATED.
- HOMERUN - PROVIDE 20-1P BREAKER WITH 2-#12, 1-#12G, 3/4" TO PANEL AS INDICATED MINIMUM, UON
- PHOTOCELL
- CIRCUIT BREAKER WITH ASSOCIATED AMPACITY AND FEATURES  
TRIP ELEMENTS - ELECTRONIC TRIP UNIT  
L - LONG TIME I - INSTANTANEOUS  
S - SHORT TIME G - GROUND FAULT
- GROUND BAR
- GROUND LOOP
- GROUND ROD, 10' LONG, 3/4" DIAMETER
- CADWELD CONNECTION
- GROUND TEST WELL
- AIR TERMINAL, 1/2" DIAMETER, 12" LONG, ALUMINUM, TAPERED POINT
- DOWN CONDUCTOR, CLASS 1, COPPER, 29 STRAND, 17 GAUGE, COPPER WIRE
- GROUND PIGTAIL
- LIGHTNING CONDUCTOR CONNECTION
- CHANGE IN ELEVATION, LIGHTNING CONDUCTOR
- TRANSIENT VOLTAGE SURGE SUPPRESSOR

**ELECTRICAL DIAGRAM SYMBOLS LEGEND**

- GROUND
- AUTOMATIC TRANSFER SWITCH
- AUTOMATIC TRANSFER SWITCH - BYPASS ISOLATION TYPE
- PANELBOARD - WITH MAIN LUGS ONLY
- PANELBOARD - WITH MAIN CIRCUIT BREAKER
- TRANSFORMER
- ENCLOSED CIRCUIT BREAKER
- FUSED SAFETY SWITCH

**FIRE ALARM SYMBOLS LEGEND**

- SMOKE DETECTOR
- SMOKE DETECTOR WITH WIRE GUARD
- HEAT DETECTOR, 135° UON
- DUCT TYPE SMOKE DETECTOR SUBSCRIPT INDICATES THE FOLLOWING:  
S SUPPLY DUCT  
R RETURN DUCT
- REMOTE ALARM INDICATOR LIGHT WITH KEYED TEST SWITCH
- REMOTE INDICATOR LIGHT
- FIRE ALARM AUDIO/VISUAL UNIT, SUBSCRIPT INDICATES CANDELA RATING
- FIRE ALARM VISUAL ONLY UNIT, SUBSCRIPT INDICATES CANDELA RATING
- FIRE ALARM MANUAL PULL STATION
- ALARM BELL
- FIRE ALARM CONTROL UNIT (PANEL)
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM DOCUMENT CABINET
- NOTIFICATION APPLIANCE CIRCUIT PANEL
- FIRE ALARM TERMINAL CABINET
- FLOW SWITCH
- TAMPER SWITCH
- DOOR HOLDER
- DEVICE WITH THIS SUBSCRIPT INDICATES WIRE GUARD

**COMMUNICATIONS SYMBOLS LEGEND**

- PAGING SPEAKER, MOUNTING HEIGHTS AS PER PLANS
- VOICE/DATA OUTLET, SUBSCRIPT INDICATES CONFIGURATION

**ELECTRICAL DRAWING PRESENTATION**

- LIGHT LINEWEIGHT INDICATES EXISTING UON
- ON DEMOLITION PLANS, HEAVY DASHED LINEWEIGHT INDICATES EXISTING TO BE REMOVED UON
- HEAVY SOLID LINEWEIGHT INDICATES NEW TO BE PROVIDED UON
- DRAWING NOTE
- INDICATES FIXTURE TYPE
- INDICATES SWITCHING DESIGNATION
- INDICATES CIRCUIT
- INDICATES FAULT CURRENT AVAILABLE AT THE EQUIPMENT
- INDICATES DISTRIBUTION EQUIPMENT FAULT CURRENT RATING

**GENERAL ELECTRICAL NOTES:**

- A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED FOR THE APPLICATION BY A TESTING AGENCY APPROVED BY THE AUTHORITY HAVING JURISDICTION, WHERE SUCH LISTING EXISTS.
- B. ALL 20 AMPERE, 120 VOLT CIRCUITS LONGER THAN 50 FEET AND 277 VOLT CIRCUITS LONGER THAN 125 FEET SHALL BE # 10 AWG MINIMUM.
- C. ALL CONDUCTORS SHALL BE MINIMALLY SIZED PER THE 75 DEGREE CELSIUS TABLES IN THE NEC. ADJUST TO THE HIGHER RATING WHERE RECOMMENDED BY EQUIPMENT MANUFACTURER.
- D. ALL CONDUCTORS SHALL BE INSTALLED IN APPROVED RACEWAYS. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH.
- E. SIZE ALL CONDUITS AND RACEWAYS PER THE THHN/THWN INSULATION TABLES IN THE NEC. RESIZE CONDUITS WHERE THICKER CONDUCTOR INSULATION IS USED.
- F. PROVIDE AN NEC SIZED GROUND WIRE IN ALL POWER CIRCUITS.
- G. ALL ITEMS USED AS SERVICE ENTRANCE EQUIPMENT SHALL BE LISTED AND LABELED FOR THAT PURPOSE.
- H. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE NORTH CAROLINA STATE CONSTRUCTION OFFICE TO SCHEDULE REQUIRED INSPECTIONS. A "CERTIFICATE OF APPROVAL" SHALL BE OBTAINED FROM THE STATE ELECTRICAL INSPECTOR AFTER ALL WORK IS COMPLETED.
- I. POWER PHASE CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
 

120/240 VOLT	208/120 VOLT	480/277 VOLT
1 PHASE SYSTEMS	3 PHASE SYSTEM	3 PHASE SYSTEM
- J. INSTALL DETECTABLE WARNING TAPE 6" BELOW GRADE FOR ALL UNDERGROUND CONDUIT.
 

PHASE A	BLACK	BLACK	BROWN
PHASE B	RED	RED	ORANGE
PHASE C	NA	BLUE	YELLOW
NEUTRAL	WHITE	WHITE	GREY

**FIRE ALARM GENERAL NOTES:**

- A. ALL CONDUIT SHALL BE MINIMUM 3/4", INCLUDING FLEXIBLE CONDUIT.
- B. SEE PLANS FOR QUANTITY AND LOCATION OF DEVICES AND EQUIPMENT.
- C. CIRCUITRY SHALL BE CONDUCTOR SIZE, QUANTITY, AND TYPE AS RECOMMENDED BY PARTICULAR MANUFACTURER FOR SPECIFIC USE AS INITIATION, NOTIFICATION, RELAY, OR SIGNALING LINE CIRCUIT CONDUCTORS.
- D. SIGNALING LINE CIRCUITS (SLC) SHALL BE NFPA 72, CLASS A, STYLE 6 WIRING. THE OUTGOING AND THE RETURN CIRCUIT CONDUCTORS SHALL NOT BE RUN IN THE SAME CONDUIT.
- E. SMOKE AND HEAT DETECTORS SHALL BE LOCATED A MINIMUM OF 36" FROM HVAC SUPPLY, RETURN AND EXHAUST AIR DIFFUSERS, GRILLES AND OUTLETS. COORDINATE EXACT LOCATIONS WITH THE MECHANICAL CONTRACTOR AND EXISTING FIELD CONDITIONS.
- F. LABEL ALL DUCT MOUNT SMOKE DETECTOR REMOTE ALARM INDICATING LIGHTS. LABEL SHALL INCLUDE THE ASSIGNED SMOKE DETECTOR ADDRESS, THE ROOM NUMBER IN WHICH THE DUCT MOUNT SMOKE DETECTOR IS LOCATED AND VICINITY IN ROOM. LABELS IN AREAS WITH HIGH CEILING SHALL HAVE A LARGER FONT TO BE READABLE FROM THE FINISHED FLOOR HEIGHT.

**COMMUNICATION GENERAL NOTES:**

- A. CONTRACTOR SHALL INSTALL CONDUITS AND BACK BOXES FOR ALL COMMUNICATION DEVICES.
- B. 3/4" CONDUIT FROM EACH DEVICE IS REQUIRED AS HOME RUN BACK TO TELEPHONE BOARD FOR ADMINISTRATION AREA DEVICES.
- C. 3/4" CONDUIT FROM EACH DEVICE IS REQUIRED TO BE HOME RUN BACK TO COMMUNICATION J-BOX IN MECHANICAL ROOM FOR DORM AREA DEVICES.
- D. CONTRACTOR SHALL PURCHASE AND INSTALL THE TELEPHONE BACKBOARD.
- E. SINGLE GANG BACK BOX IS REQUIRED FOR EACH V/D OUTLET.
- F. MOUNT SPEAKERS 10'-12" AFF (EACH FLOOR) OR ON THE CEILING.
- G. WIRES WILL BE PROVIDED AND INSTALLED BY OTHERS.
- H. FACE PLATES, ACTUAL DEVICES AND TERMINATION WILL BE BY OTHERS.

**ABBREVIATIONS**

- A AMPERE
- ASD ADJUSTABLE SPEED DRIVE
- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AIC AMPERES INTERRUPTING CAPACITY
- AL ALUMINUM
- ARCHIT ARCHITECT
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BFC BELOW FINISHED CEILING
- BFG BELOW FINISHED GRADE
- BLDG BUILDING
- C CELSIUS
- C CONDUIT
- C/B CIRCUIT BREAKER
- CT CIRCUIT
- CT CURRENT TRANSFORMER
- CU COPPER
- DC DIRECT CURRENT
- DEG DEGREES
- DISC DISCONNECT
- DN DOWN
- DWG DRAWING
- EC ELECTRICAL CONTRACTOR
- ELEC ELECTRICAL/ELECTRONIC
- EMT ELECTRICAL METALLIC TUBING
- ENG ENGINEER
- ER EXISTING TO BE RELOCATED
- EWC ELECTRIC WATER COOLER
- EX, (E), EXIST EXISTING
- F FAHRENHEIT
- FACU FIRE ALARM CONTROL UNIT (PANEL)
- FIXT FIXTURE
- FLA FULL LOAD AMPS
- FLP FLOOR
- FLUOR FLUORESCENT
- FT FEET
- G.GND GROUND
- GC GENERAL CONTRACTOR
- GEC GROUNDING ELECTRODE CONDUCTOR
- GRS GALVANIZED RIGID STEEL
- HOA HAND-OFF-AUTOMATIC
- HH HANDHOLE
- HID HIGH INTENSITY DISCHARGE
- HP HORSEPOWER
- HPF HIGH POWER FACTOR
- HR HOUR
- HTR HEATER
- HZ HERTZ
- IMC INTERMEDIATE METAL CONDUIT
- INCAND INCANDESCENT
- JB JUNCTION BOX
- K (K) THOUSAND
- KMIL THOUSAND CIRCULAR MILS
- KV KILOVOLT(S)
- KVA KILOVOLT AMPERE(S)
- KW KILOWATT(S)
- KWH KILOWATT HOUR(S)
- LED LIGHT EMITTING DIODE
- LT(S) LIGHT(S)
- LTG LIGHTING
- MC MECHANICAL CONTRACTOR
- MECH MECHANICAL
- MFG MANUFACTURED
- MH MANHOLE
- MISC MISCELLANEOUS
- MTD MOUNTED
- MTS MANUAL TRANSFER SWITCH
- NA NON APPLICABLE
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRICAL CODE
- NL NIGHT LIGHT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- OC ON CENTER
- P POLE
- PH, O PHASE
- PNL PANELBOARD
- PVC POLYVINYL CHLORIDE
- RECEPT(S) RECEPTACLE(S)
- SE SERVICE ENTRANCE
- SF SQUARE FEET
- SW SWITCH
- SWBD SWITCHBOARD
- SWGR SWITCHGEAR
- TBD TO BE DETERMINED
- UL UNDERWRITERS LABORATORIES
- UNLESS OTHERWISE NOTED UNLESS OTHERWISE NOTED
- UPS UNINTERRUPTIBLE POWER SUPPLY
- V VOLTS
- VA VOLT AMPHERE(S)
- W WATTS/WIRE
- WP WEATHERPROOF
- XFMR TRANSFORMER



**NORTH CAROLINA DEPARTMENT OF PUBLIC SAFETY**

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DESIGNED BY: ACD

CHECKED BY: WWS

CADD DWG NO: JO3987-E001

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PLOT DATE: 12.19.2022

**NASH CORRECTIONAL INSTITUTION**

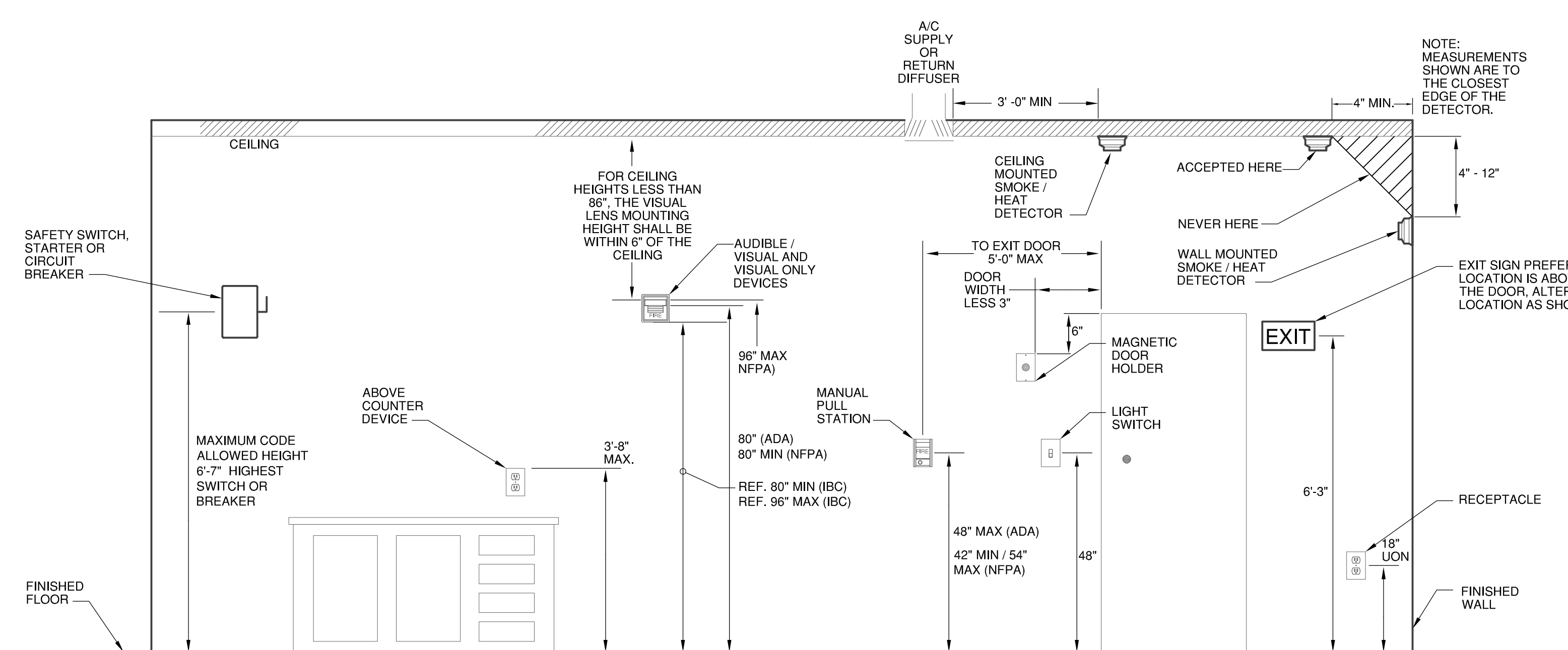
2869 US 64 ALT,  
NASHVILLE, NC, 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

**ELECTRICAL GENERAL NOTES, ABBREVIATIONS & SYMBOL LEGEND**

**E001**

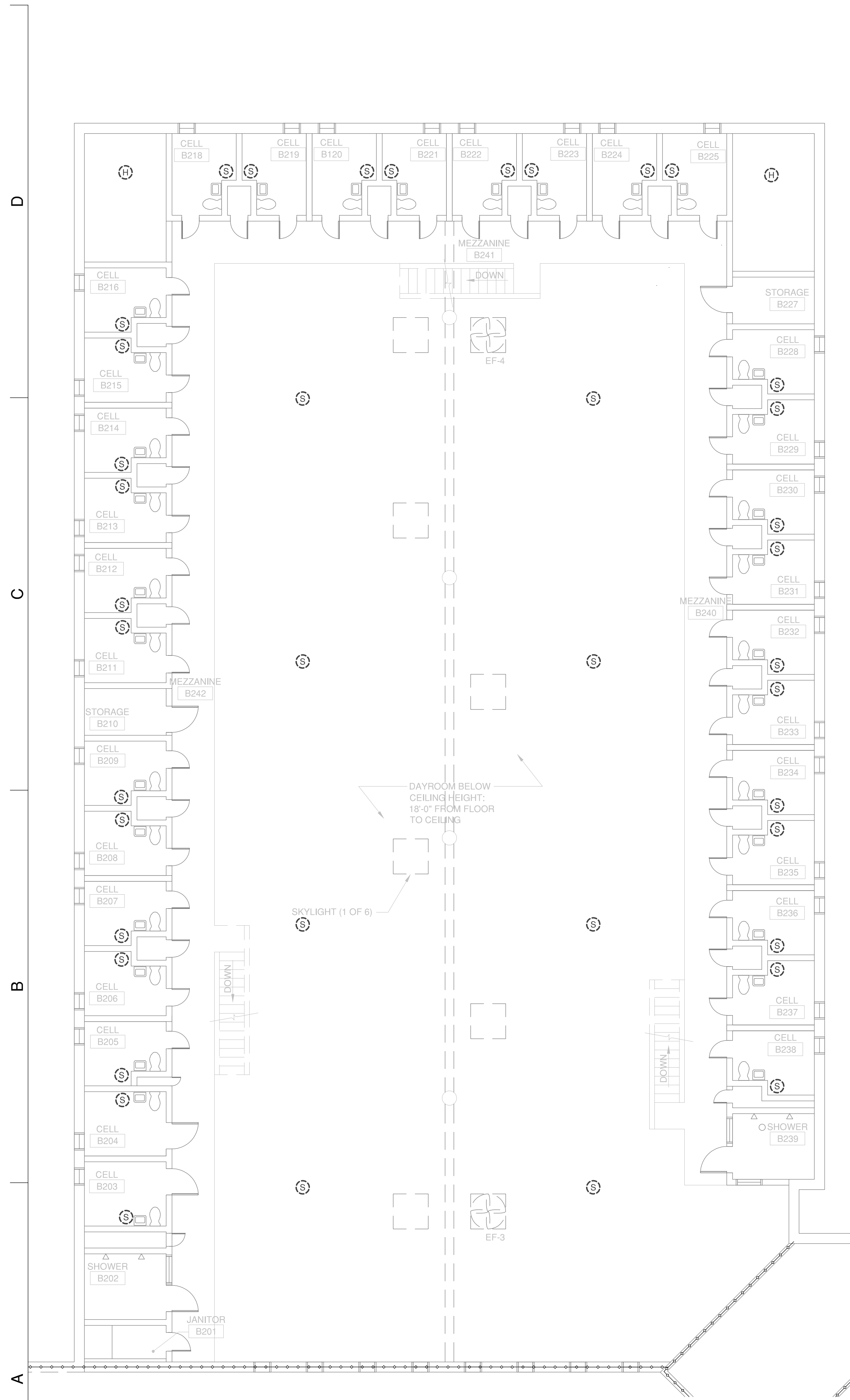


**TYPICAL EQUIPMENT AND WIRING DEVICE MOUNTING HEIGHTS**  
SCALE: NONE

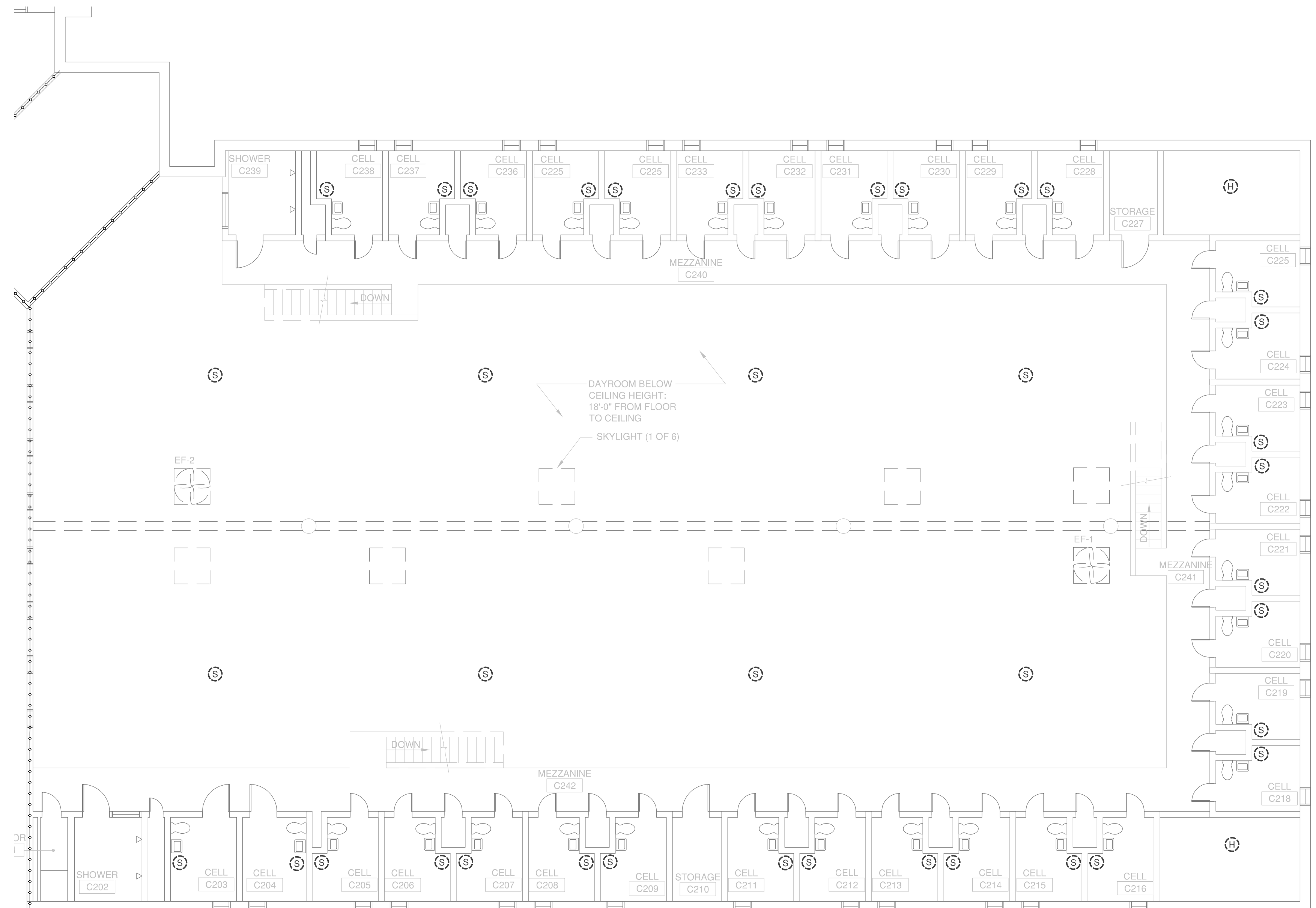








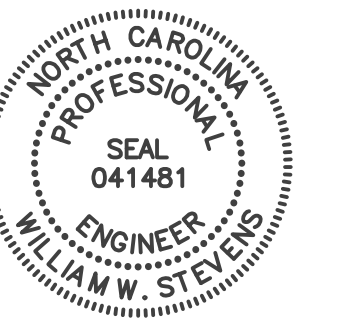
A1 MEZZANINE FLOOR AREA "B" - FIRE ALARM DEMOLITION PLAN  
EFD103 SCALE: 1/8"=1'-0" 0 2' 4' 8'



A3 MEZZANINE FLOOR AREA "C" - FIRE ALARM DEMOLITION PLAN  
EFD103 SCALE: 1/8"=1'-0" 0 2' 4' 8'

**GENERAL NOTES:**

- A. REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
- B. WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
- C. ABANDON CONCEALED CONDUIT, REMOVE WIRING.
- D. ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
- E. ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- F. THE AREA SHALL BE UNDER FIRE WATCH DURING DEMOLITION AND INSTALLATION OF THE FIRE ALARM SYSTEM.



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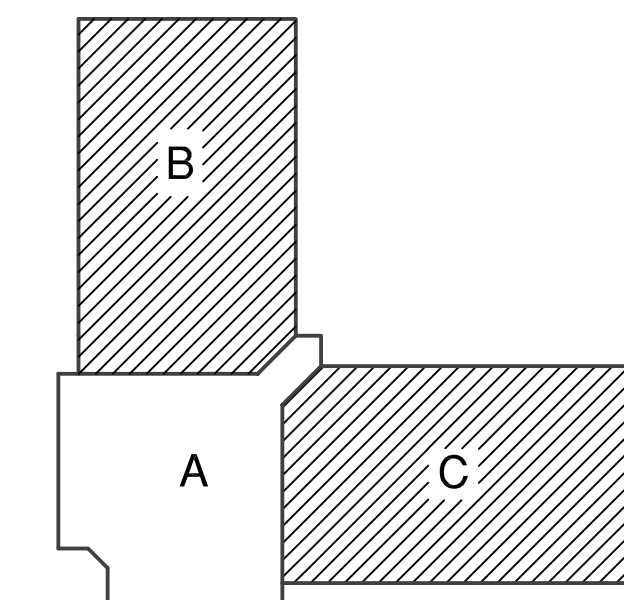
**NASH CORRECTIONAL INSTITUTION**  
2869 US 64 ALT,  
NASHVILLE, NC, 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID #2-24604-01A

**SINGLE CELL UNIT-1 MEZZANINE FLOOR AREA "B" & "C" FIRE ALARM DEMOLITION PLAN**

**EFD103**



KEY PLAN - MEZZ FLOOR

RATED PARTITION LEGEND	
	4 HR FIRE WALL
	3 HR FIRE WALL
	2 HR FIRE WALL
	4 HR FIRE BARRIER
	3 HR FIRE BARRIER
	2 HR FIRE BARRIER
	1 HR FIRE BARRIER
	1 HR FIRE PARTITION
	2 HR SMOKE BARRIER
	1 HR SMOKE BARRIER
	SMOKE PARTITION



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REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

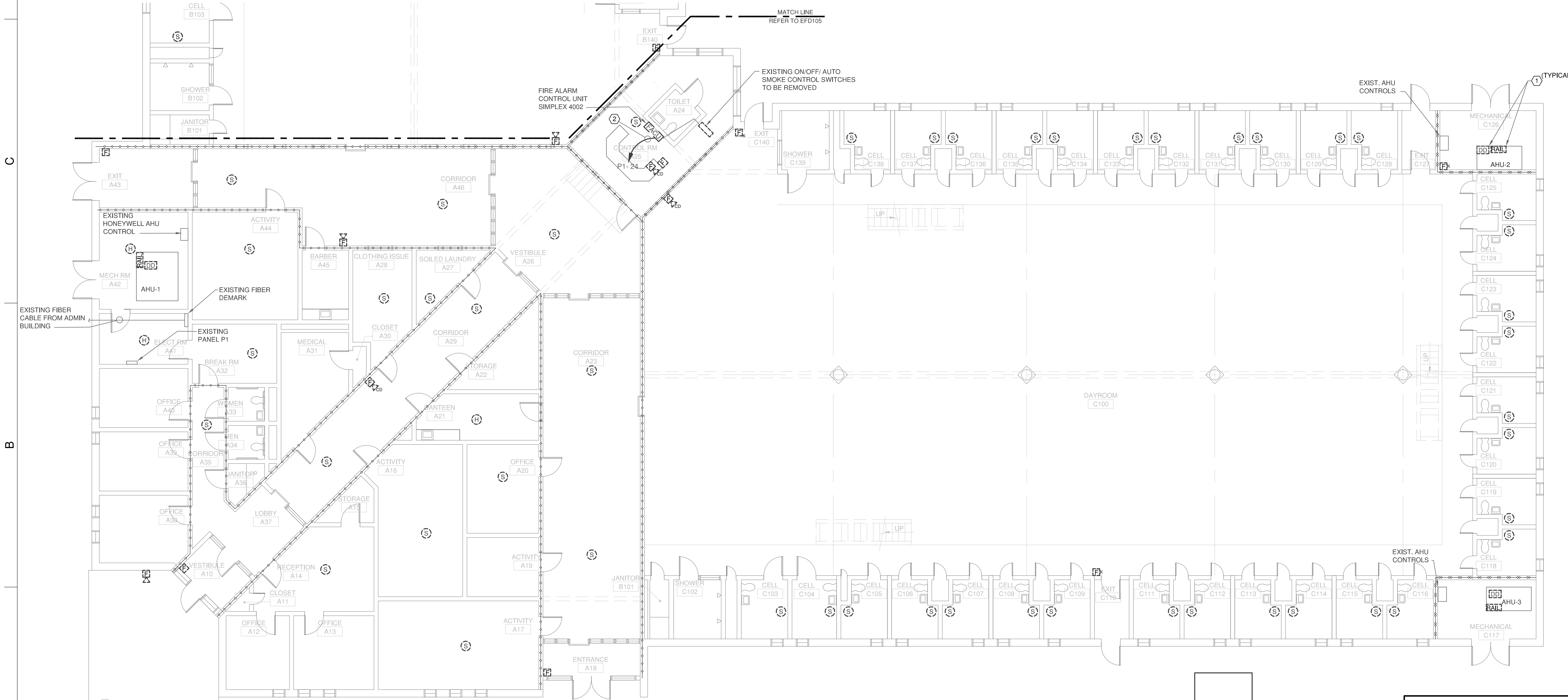
**SINGLE CELL UNIT-2 MAIN FLOOR AREA "A" & "C" FIRE ALARM DEMOLITION PLAN**

**GENERAL NOTES:**

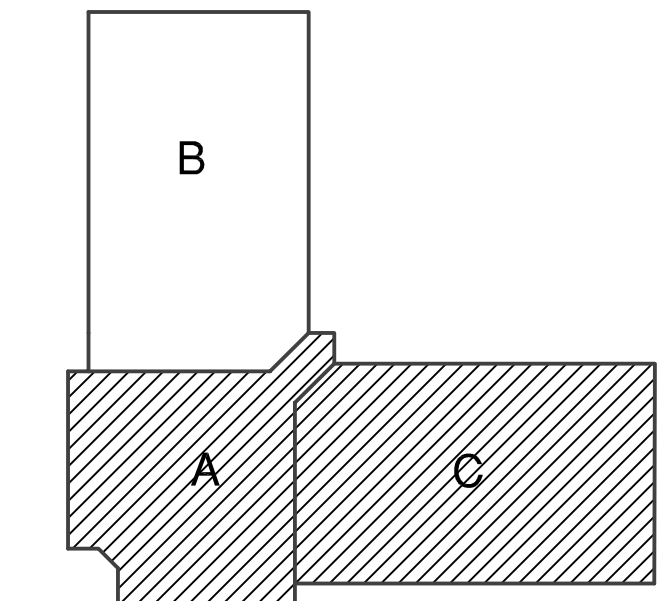
- REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
- WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY, PATCH SURFACE AND PAINT AS NEEDED.
- ABANDON CONCEALED CONDUIT, REMOVE WIRING.
- ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
- ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- THE AREA SHALL BE UNDER FIRE WATCH DURING DEMOLITION AND INSTALLATION OF THE FIRE ALARM SYSTEM. NOTIFY THE FACILITY PRIOR TO TAKING THE EXISTING SYSTEM OFFLINE

**SHEET KEYED NOTES:**

- REMOVE DUCT DETECTOR RAIL AND ASSOCIATED WIRE AND CONDUIT. SMOKE EXHAUST CONTROLS SHALL REMAIN FOR RECONNECTION.
- REMOVE 120 V BRANCH CIRCUIT COMPLETELY BACK TO SOURCE.



**MAIN FLOOR AREA "A" AND "C" - FIRE ALARM DEMOLITION PLAN**  
SCALE: 1/8"=1'-0" 0 2' 4' 8"



KEY PLAN - MAIN FLOOR

**RATED PARTITION LEGEND**

- 4 HR FIRE WALL
- 3 HR FIRE WALL
- 2 HR FIRE WALL
- 4 HR FIRE BARRIER
- 3 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER
- 1 HR FIRE PARTITION
- 2 HR SMOKE BARRIER
- 1 HR SMOKE BARRIER
- SMOKE PARTITION

S:\UNIT - 03987 - DDP\Work - C1 3710\Projects\10\_3987 Replace Fire Alarm System in Four Single Cell Units\CAD Drawings\SINGLE CELL UNIT-2\03987-E000-E000 GENERAL AND PLAN SHEETS - SINGLE CELL 2.dwg MARKED - 03987 P

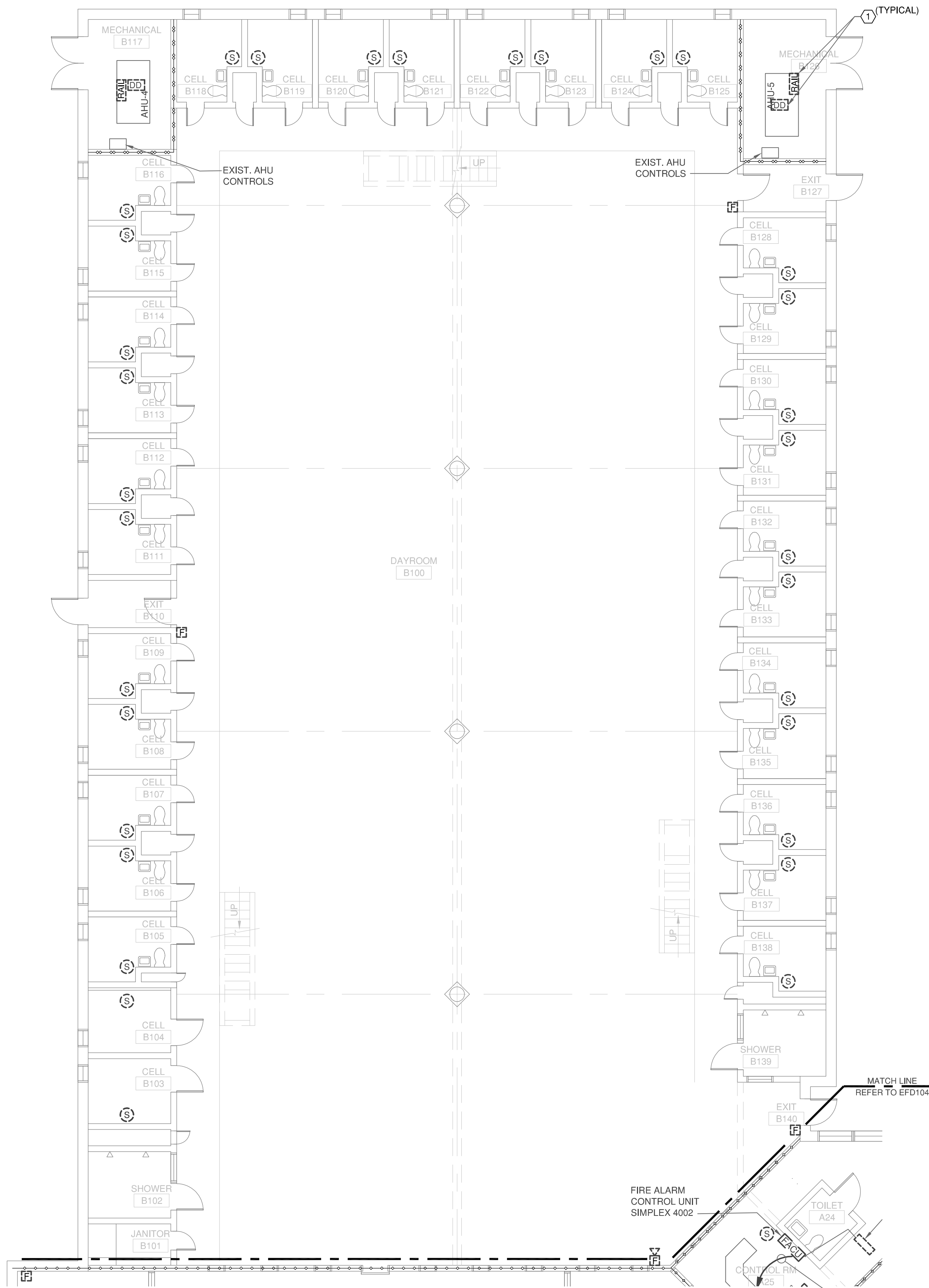


**GENERAL NOTES:**

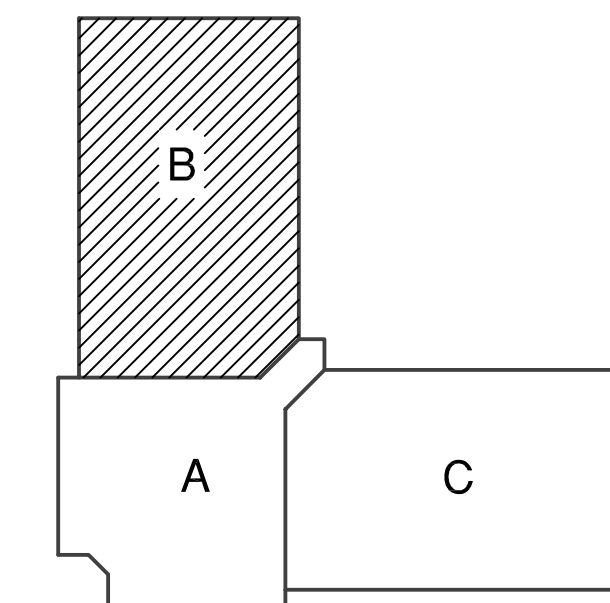
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- B. WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
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# **SHEET KEYED NOTES:**

- 1. REMOVE DUCT DETECTOR RAIL AND ASSOCIATED WIRE AND CONDUIT. SMOKE EXHAUST CONTROLS SHALL REMAIN FOR RECONNECTION.



**A1 MAIN FLOOR AREA "B" - FIRE ALARM DEMOLITION PLAN**  
EFD105 SCALE: 1/8"=1'-0" 0 2' 4' 8'



KEY PLAN - MAIN FLOOR

**RATED PARTITION LEGEND**

- 4 HR FIRE WALL
- - - 3 HR FIRE WALL
- - - 2 HR FIRE WALL
- 4 HR FIRE BARRIER
- - - 3 HR FIRE BARRIER
- - - 2 HR FIRE BARRIER
- - - 1 HR FIRE BARRIER
- - - 1 HR FIRE PARTITION
- - - 2 HR SMOKE BARRIER
- - - 1 HR SMOKE BARRIER
- - - SMOKE PARTITION

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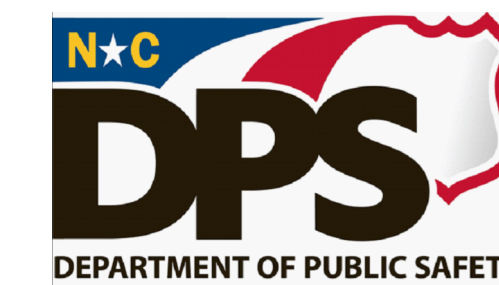
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REPLACE OBSOLETE FA  
SYSTEMS IN SINGLE CELL  
UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

**SINGLE CELL UNIT -2  
MAIN FLOOR AREA "B"  
FIRE ALARM  
DEMOLITION PLAN**

**EFD105**



**CENTRAL ENGINEERING**  
*Plan • Design • Construct*

NORTH CAROLINA DEPARTMENT OF PUBLIC SAFETY  
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NASHVILLE, NORTH CAROLINA 27856

REPLACE OBSOLETE FA  
SYSTEMS IN SINGLE CELL  
UNITS 1, 2, 3 & 4

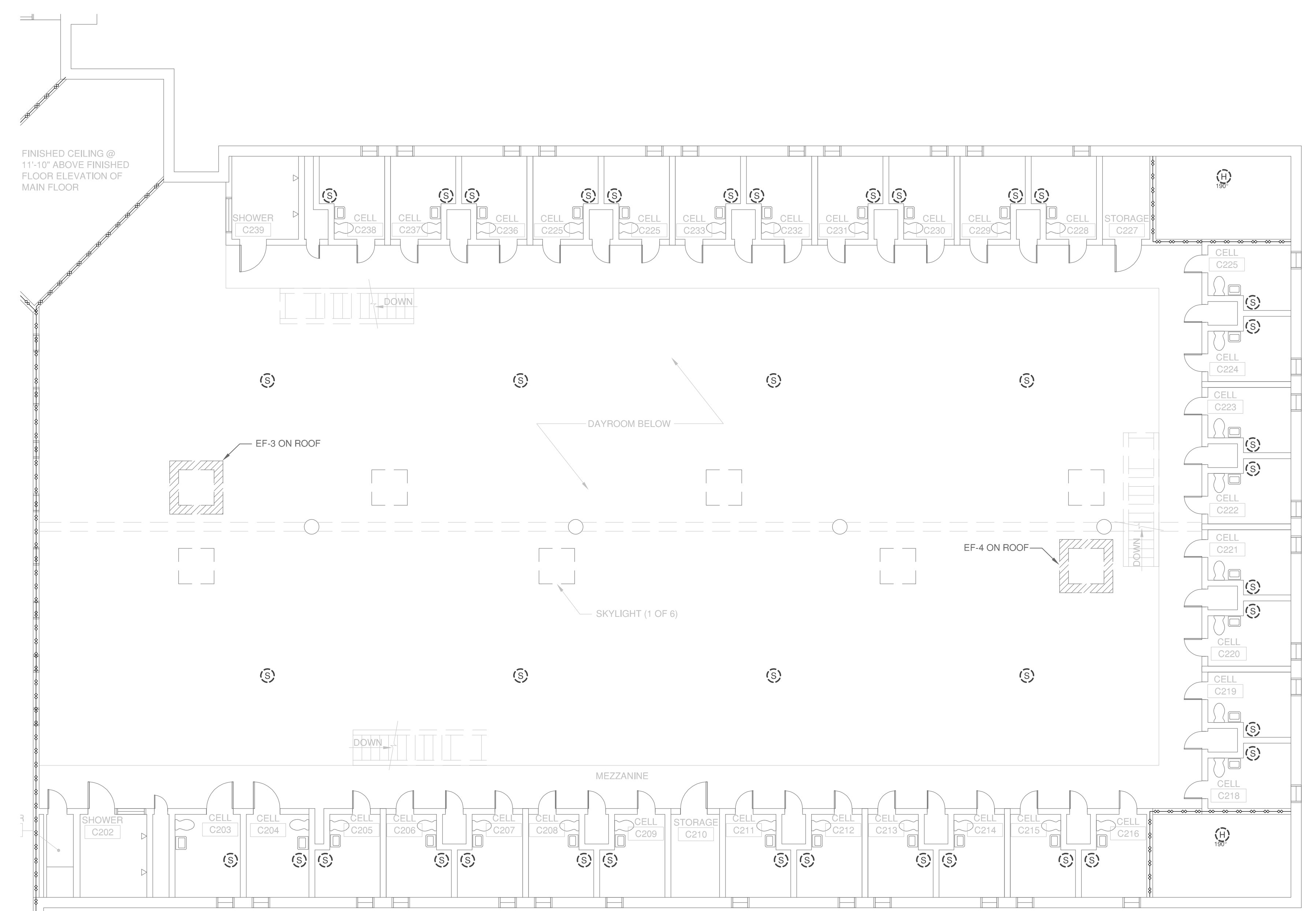
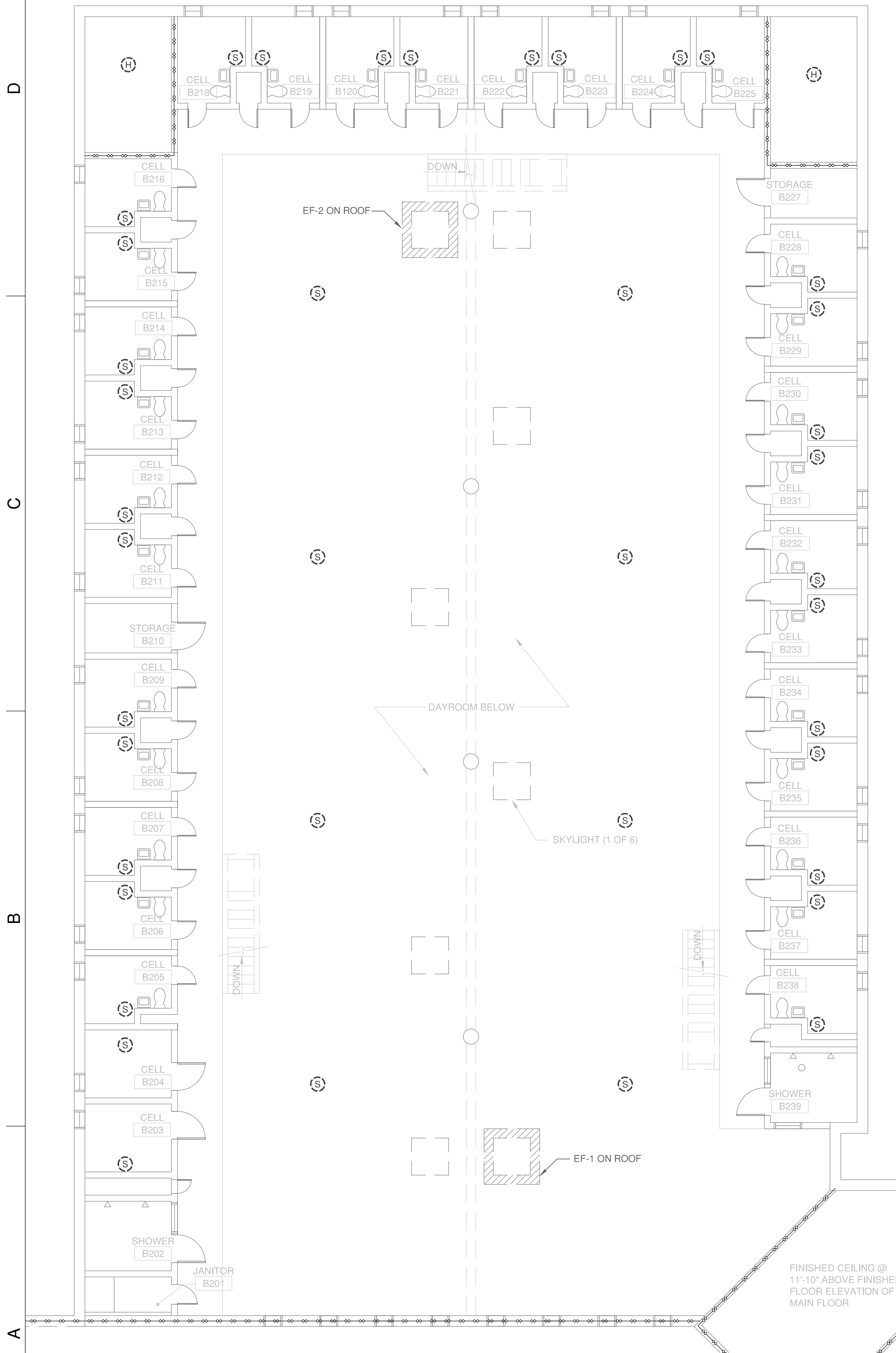
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**SINGLE CELL UNIT-2**  
**MEZZANINE FLOOR**  
**AREA "B" & "C"**  
**FIRE ALARM**  
**DEMOLITION PLAN**

**EFD106**

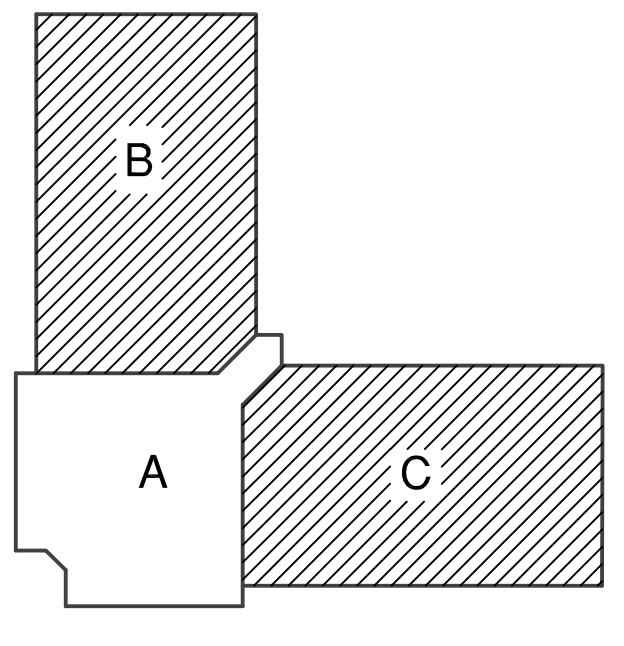
**GENERAL NOTES:**

- A. REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
- B. WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
- C. ABANDON CONCEALED CONDUIT, REMOVE WIRING.
- D. ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
- E. ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- F. THE AREA SHALL BE UNDER FIRE WATCH DURING DEMOLITION AND INSTALLATION OF THE FIRE ALARM SYSTEM.



**A1 MEZZANINE FLOOR AREA "B" - FIRE ALARM DEMOLITION PLAN**  
SCALE: 1/8"=1'-0" 0 2' 4' 8'

**A3 MEZZANINE FLOOR AREA "C" - FIRE ALARM DEMOLITION PLAN**  
SCALE: 1/8"=1'-0" 0 2' 4' 8'



	4 HR FIRE WALL
	3 HR FIRE WALL
	2 HR FIRE WALL
	4 HR FIRE BARRIER
	3 HR FIRE BARRIER
	2 HR FIRE BARRIER
	1 HR FIRE BARRIER
	1 HR FIRE PARTITION
	2 HR SMOKE BARRIER
	1 HR SMOKE BARRIER
	SMOKE PARTITION

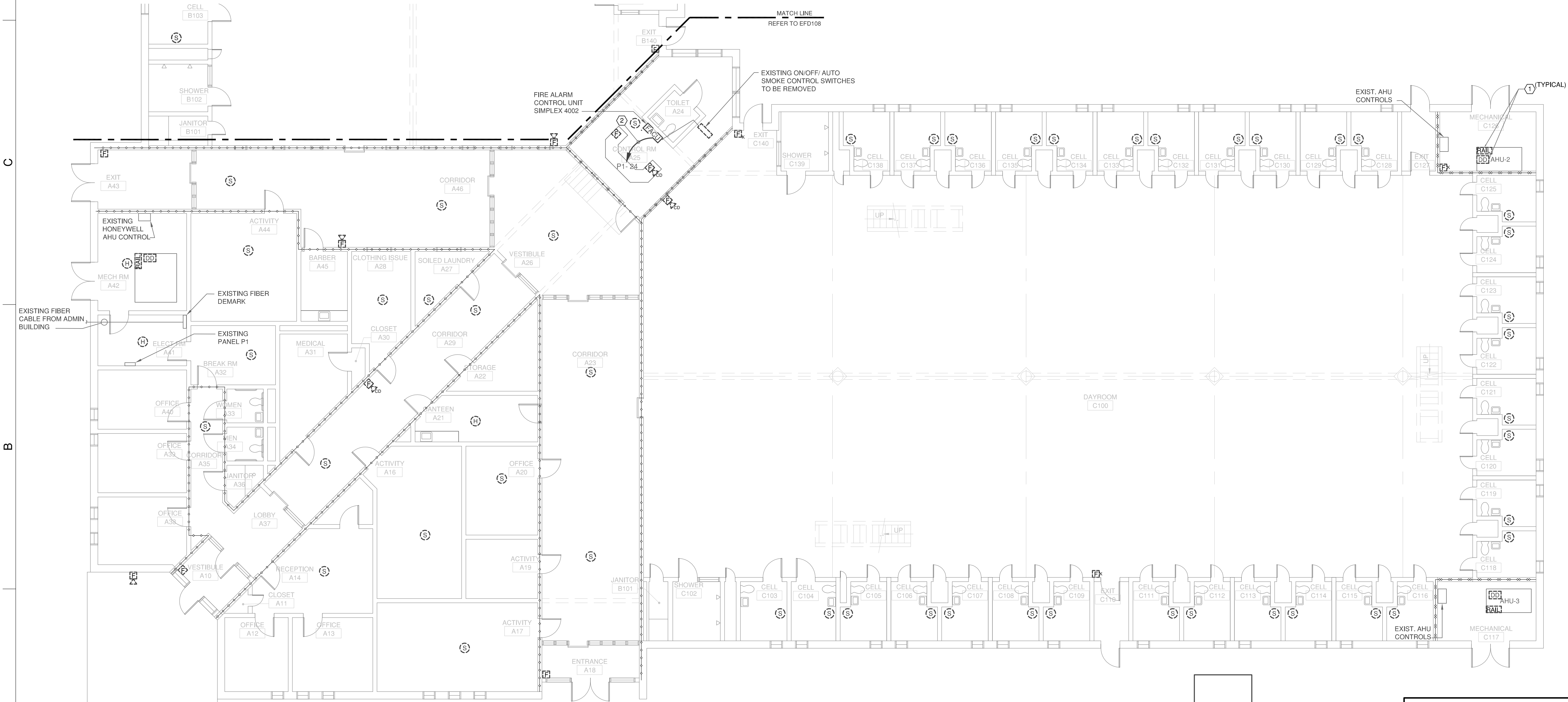
KEY PLAN - MEZZ FLOOR

**GENERAL NOTES:**

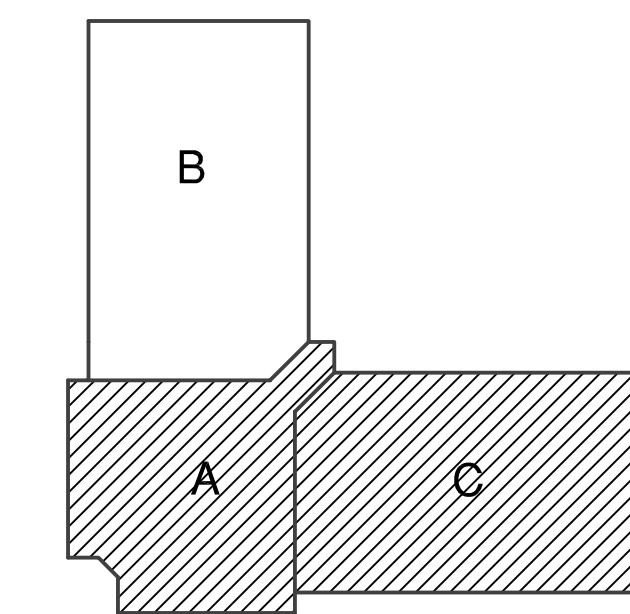
- A. REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
- B. WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
- C. ABANDON CONCEALED CONDUIT, REMOVE WIRING.
- D. ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
- E. ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- F. THE AREA SHALL BE UNDER FIRE WATCH DURING DEMOLITION AND INSTALLATION OF THE FIRE ALARM SYSTEM. NOTIFY THE FACILITY PRIOR TO TAKING THE EXISTING SYSTEM OFFLINE

# **SHEET KEYED NOTES:**

- 1. REMOVE DUCT DETECTOR RAIL AND ASSOCIATED WIRE AND CONDUIT. SMOKE EXHAUST CONTROLS SHALL REMAIN FOR RECONNECTION.
- 2. REMOVE 120 V BRANCH CIRCUIT COMPLETELY BACK TO SOURCE.



**MAIN FLOOR AREA "A" AND "C" - FIRE ALARM DEMOLITION PLAN**  
 SCALE: 1/8"=1'-0" 0 2' 4' 8'



**KEY PLAN - MAIN FLOOR**

**RATED PARTITION LEGEND**

- 4 HR FIRE WALL
- - - 3 HR FIRE WALL
- · - · 2 HR FIRE WALL
- 4 HR FIRE BARRIER
- · · · 3 HR FIRE BARRIER
- · - · 2 HR FIRE BARRIER
- · - · 1 HR FIRE BARRIER
- · - · 1 HR FIRE PARTITION
- · - · 2 HR SMOKE BARRIER
- · - · 1 HR SMOKE BARRIER
- · - · SMOKE PARTITION

NO	DATE	REVISION

DRAWN BY:	APD
DESIGNED BY:	ACD
CHECKED BY:	WWS
CADD DWG NO:	JO3987-EFD107
JOB ORDER NO:	3987
PLOT DATE:	12.19.2022

**NASH CORRECTIONAL INSTITUTION**  
 2869 US 64 ALT,  
 NASHVILLE, NORTH CAROLINA 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A  
**SINGLE CELL UNIT-3 MAIN FLOOR AREA "A" & "C" FIRE ALARM DEMOLITION PLAN**

**EFD107**



12.20.22 ISSUED FOR CONSTRUCTION

NO	DATE	REVISION
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DRAWN BY: APD  
DESIGNED BY: ACD  
CHECKED BY: WWS  
CADD DWG NO: J03987-EFD108  
JOB ORDER NO: 3987  
PLOT DATE: 12.19.2022

**NASH CORRECTIONAL INSTITUTION**

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NASHVILLE, NORTH CAROLINA 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

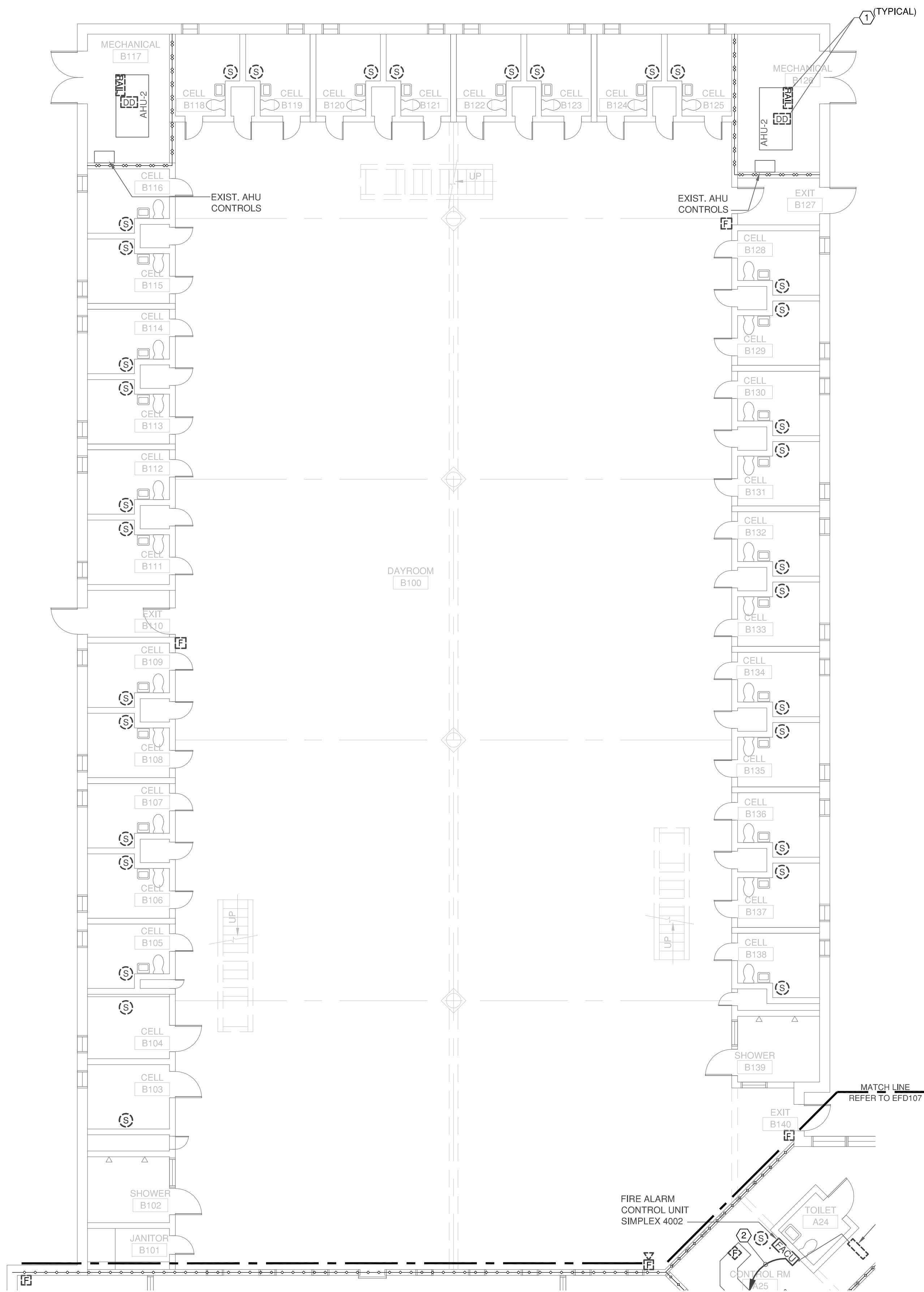
**SINGLE CELL UNIT -3  
MAIN FLOOR AREA "B"  
FIRE ALARM  
DEMOLITION PLAN**

**GENERAL NOTES:**

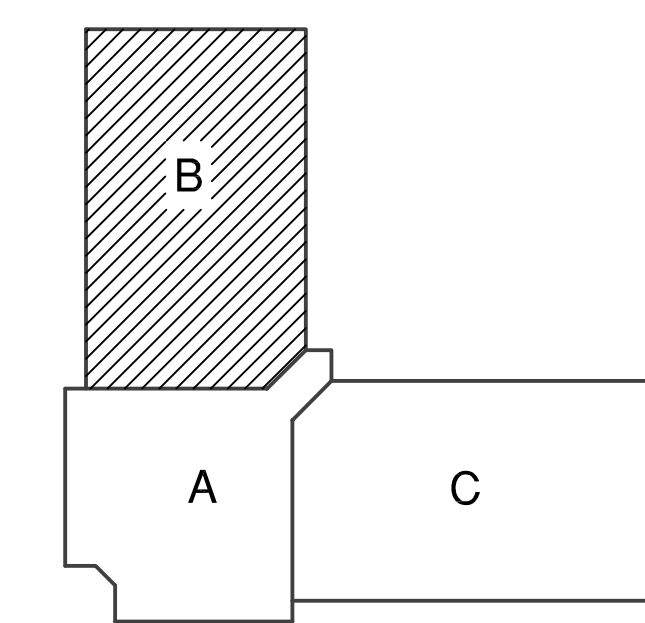
- REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
- WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
- ABANDON CONCEALED CONDUIT, REMOVE WIRING.
- ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
- ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- THE AREA SHALL BE UNDER FIRE WATCH DURING DEMOLITION AND INSTALLATION OF THE FIRE ALARM SYSTEM. NOTIFY THE FACILITY PRIOR TO TAKING THE EXISTING SYSTEM OFFLINE

**SHEET KEYED NOTES:**

- REMOVE DUCT DETECTOR RAIL AND ASSOCIATED WIRE AND CONDUIT. SMOKE EXHAUST CONTROLS SHALL REMAIN FOR RECONNECTION.



A1 MAIN FLOOR AREA "B" - FIRE ALARM DEMOLITION PLAN  
EFD108 SCALE: 1/8"=1'-0" 0 2' 4' 8'



KEY PLAN - MAIN FLOOR

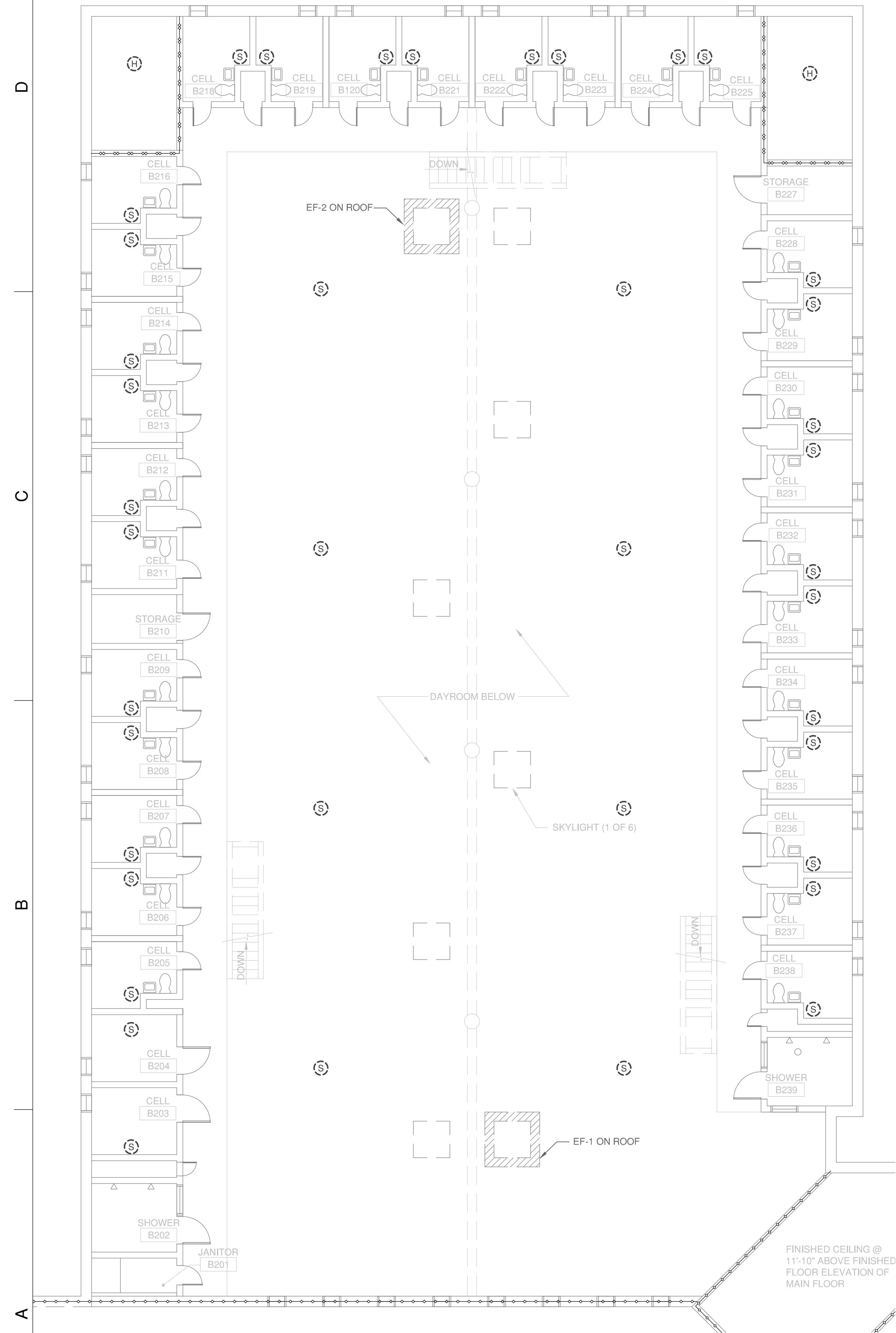
**RATED PARTITION LEGEND**

	4 HR FIRE WALL
	3 HR FIRE WALL
	2 HR FIRE WALL
	4 HR FIRE BARRIER
	3 HR FIRE BARRIER
	2 HR FIRE BARRIER
	1 HR FIRE BARRIER
	1 HR FIRE PARTITION
	2 HR SMOKE BARRIER
	1 HR SMOKE BARRIER
	SMOKE PARTITION

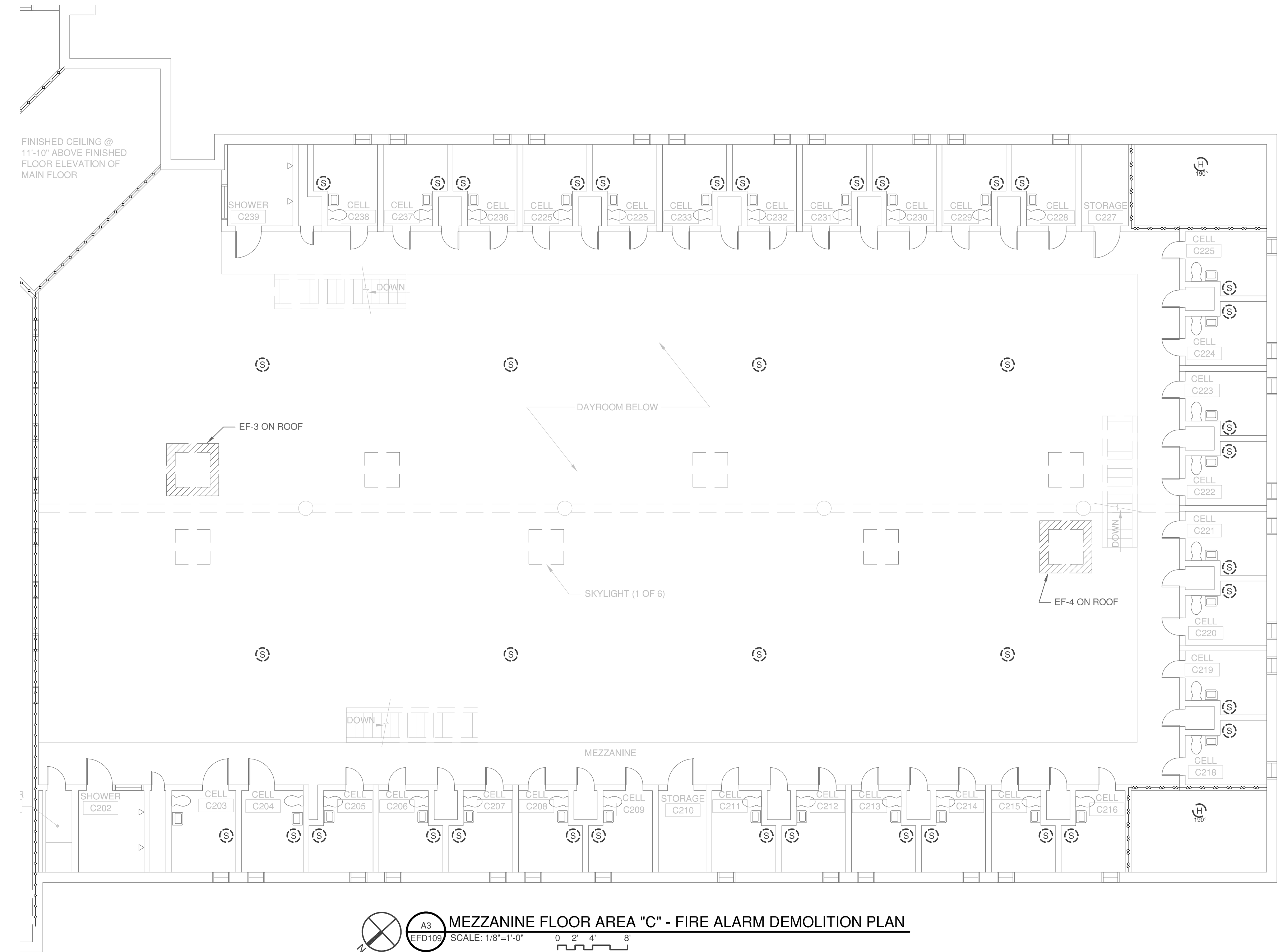


**GENERAL NOTES:**

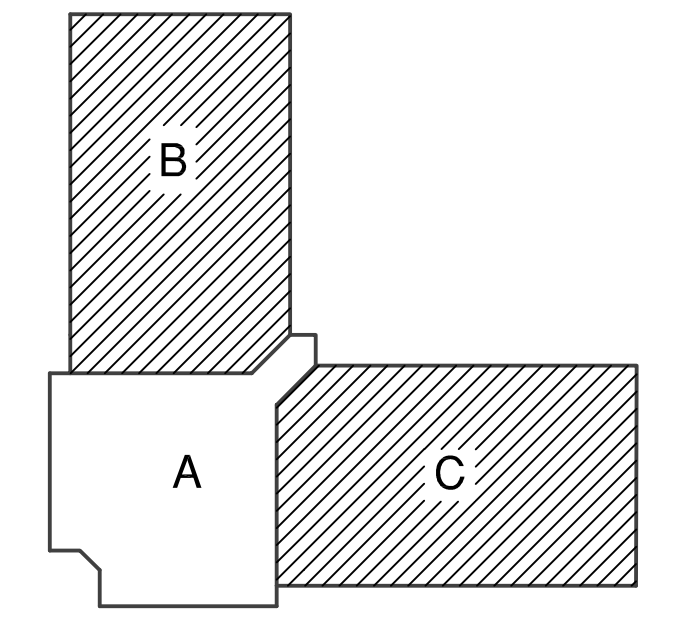
- A. REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
- B. WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
- C. ABANDON CONCEALED CONDUIT, REMOVE WIRING.
- D. ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
- E. ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- F. THE AREA SHALL BE UNDER FIRE WATCH DURING DEMOLITION AND INSTALLATION OF THE FIRE ALARM SYSTEM.



**A1** MEZZANINE FLOOR AREA "B" - FIRE ALARM DEMOLITION PLAN  
SCALE: 1/8"=1'-0" 0 2' 4' 8'



**A3** MEZZANINE FLOOR AREA "C" - FIRE ALARM DEMOLITION PLAN  
SCALE: 1/8"=1'-0" 0 2' 4' 8'



KEY PLAN - MEZZ FLOOR

RATED PARTITION LEGEND	
---o---o---o---o---	4 HR FIRE WALL
---o---o---o---	3 HR FIRE WALL
---o---o---	2 HR FIRE WALL
---o---	4 HR FIRE BARRIER
---o	3 HR FIRE BARRIER
---o	2 HR FIRE BARRIER
---o	1 HR FIRE BARRIER
---o	1 HR FIRE PARTITION
---o	2 HR SMOKE BARRIER
---o	1 HR SMOKE BARRIER
---o	SMOKE PARTITION

NO	DATE	REVISION

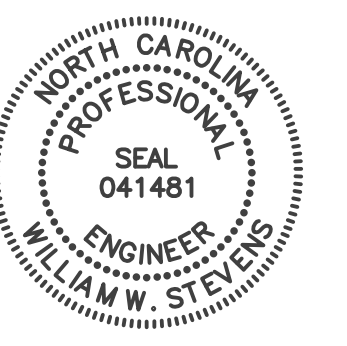
**NASH CORRECTIONAL INSTITUTION**  
2869 US 64 ALT,  
NASHVILLE, NORTH CAROLINA 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A  
**SINGLE CELL UNIT-3 MEZZANINE FLOOR AREA "B" & "C" FIRE ALARM DEMOLITION PLAN**

**EFD109**

S:\UNIT - DDP\Wash, CI 3710\Projects\NO 3987 - Replace Fire Alarm System in Four Single Cell Units\AO Drawings\SINGLE CELL UNIT-3\03087-E000-E000-GENERAL AND PLAN SHEETS - SINGLE CELL 3.dwg MARKED  
 12/19/2022 5:21 P



- GENERAL NOTES:**
- REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
  - WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY, PATCH SURFACE AND PAINT AS NEEDED.
  - ABANDON CONCEALED CONDUIT, REMOVE WIRING.
  - ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
  - ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
  - THE AREA SHALL BE UNDER FIRE WATCH DURING THE REPLACEMENT OF THE FIRE ALARM SYSTEM. NOTIFY THE FACILITY PRIOR TO TAKING THE EXISTING SYSTEM OFFLINE

- # SHEET KEYED NOTES:**
- REMOVE DUCT DETECTOR, RAIL, AND ASSOCIATED WIRE AND CONDUIT. SMOKE EXHAUST CONTROLS SHALL REMAIN FOR RECONNECTION.
  - REMOVE 120 V BRANCH CIRCUIT COMPLETELY BACK TO SOURCE.

12.20.22 ISSUED FOR CONSTRUCTION

NO.	DATE	REVISION

DRAWN BY: APD  
DESIGNED BY: ACD  
CHECKED BY: WWS  
CADD DWG NO: J03987-EFD110  
JOB ORDER NO: 3987  
PLOT DATE: 12.19.2022

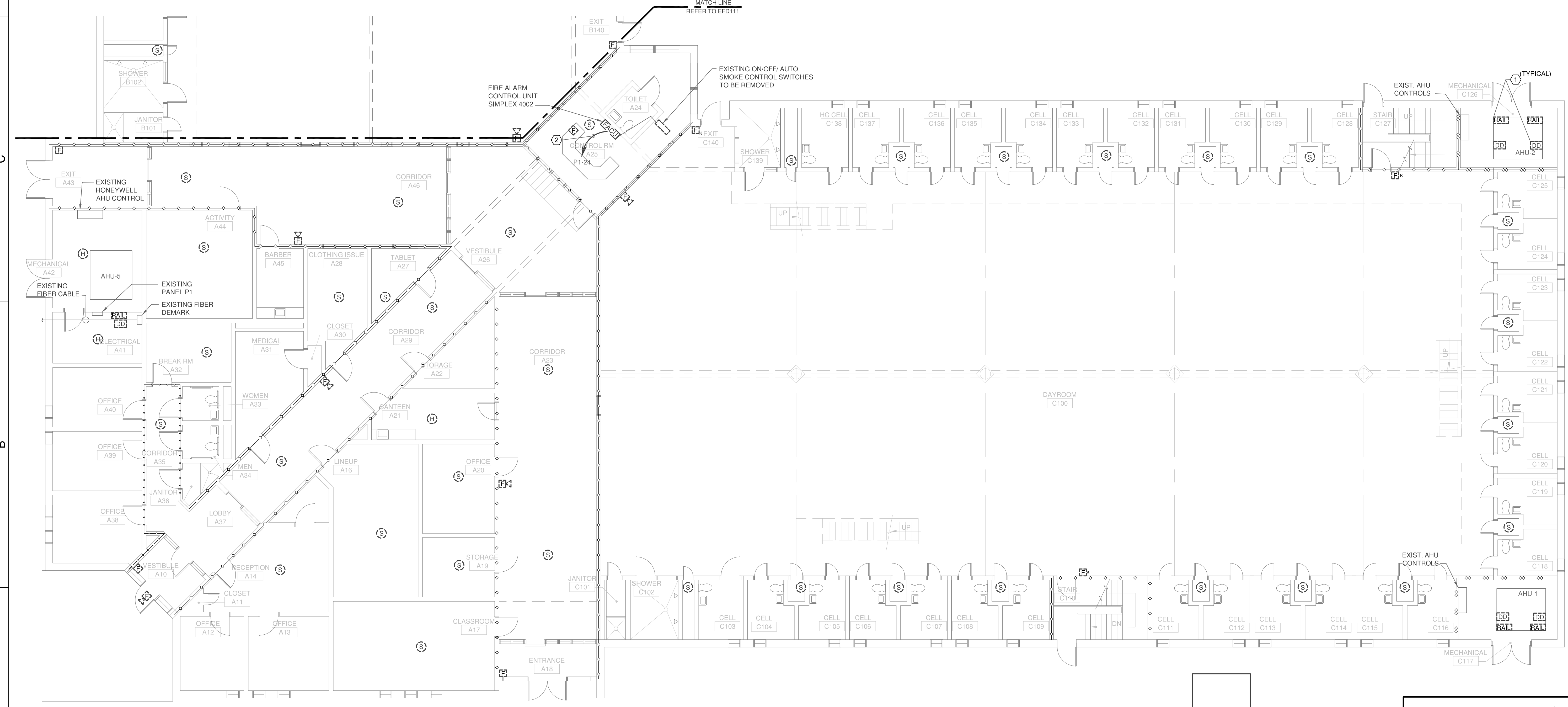
**NASH CORRECTIONAL INSTITUTION**  
2869 US 64 ALT,  
NASHVILLE, NC, 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

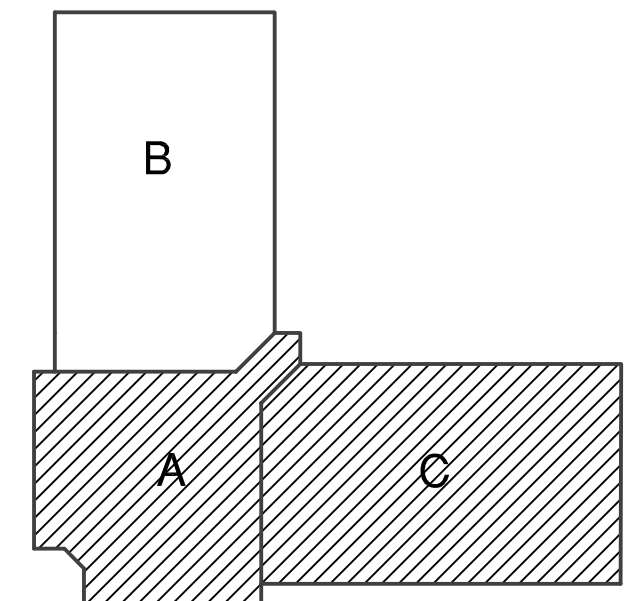
SCO ID # 22-24604-01A

**SINGLE CELL UNIT 4 MAIN FLOOR AREA "A" & "C" DEMOLITION PLAN**

**EFD110**



**MAIN FLOOR AREA "A" AND "C" - FIRE ALARM DEMOLITION PLAN**  
SCALE: 1/8"=1'-0" 0 2' 4' 8'



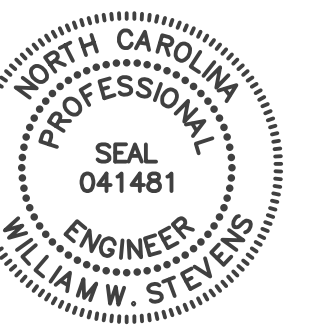
KEY PLAN - MAIN FLOOR

**RATED PARTITION LEGEND**

(Symbol: Dashed line with small circles)	4 HR FIRE WALL
(Symbol: Solid line with small circles)	3 HR FIRE WALL
(Symbol: Dashed line)	2 HR FIRE WALL
(Symbol: Dotted line)	4 HR FIRE BARRIER
(Symbol: Solid line with dots)	3 HR FIRE BARRIER
(Symbol: Dashed line with dots)	2 HR FIRE BARRIER
(Symbol: Solid line with small squares)	1 HR FIRE BARRIER
(Symbol: Dotted line with small squares)	1 HR FIRE PARTITION
(Symbol: Solid line with large squares)	2 HR SMOKE BARRIER
(Symbol: Dotted line with large squares)	1 HR SMOKE BARRIER
(Symbol: Solid line with large squares)	1 HR SMOKE BARRIER SMOKE PARTITION

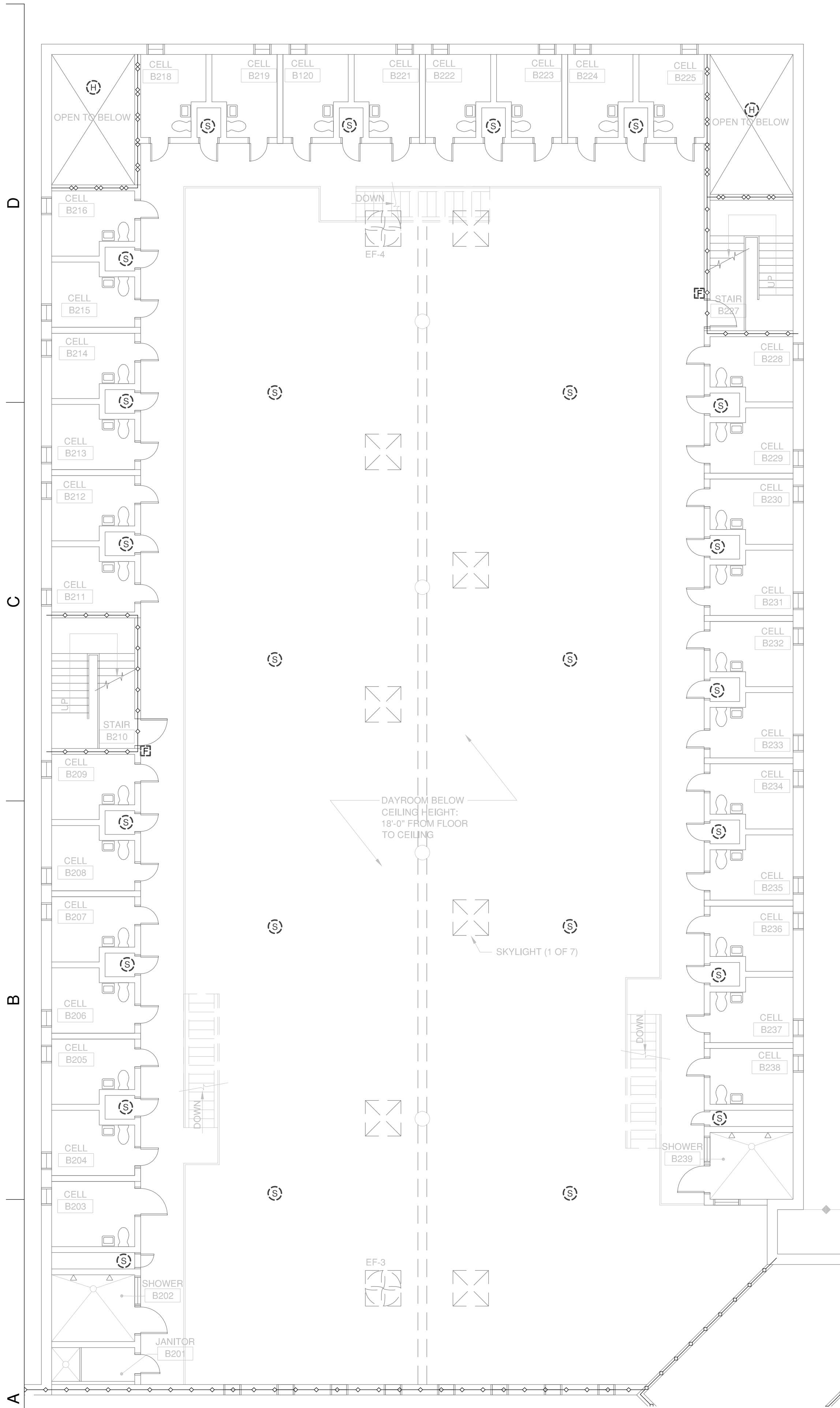




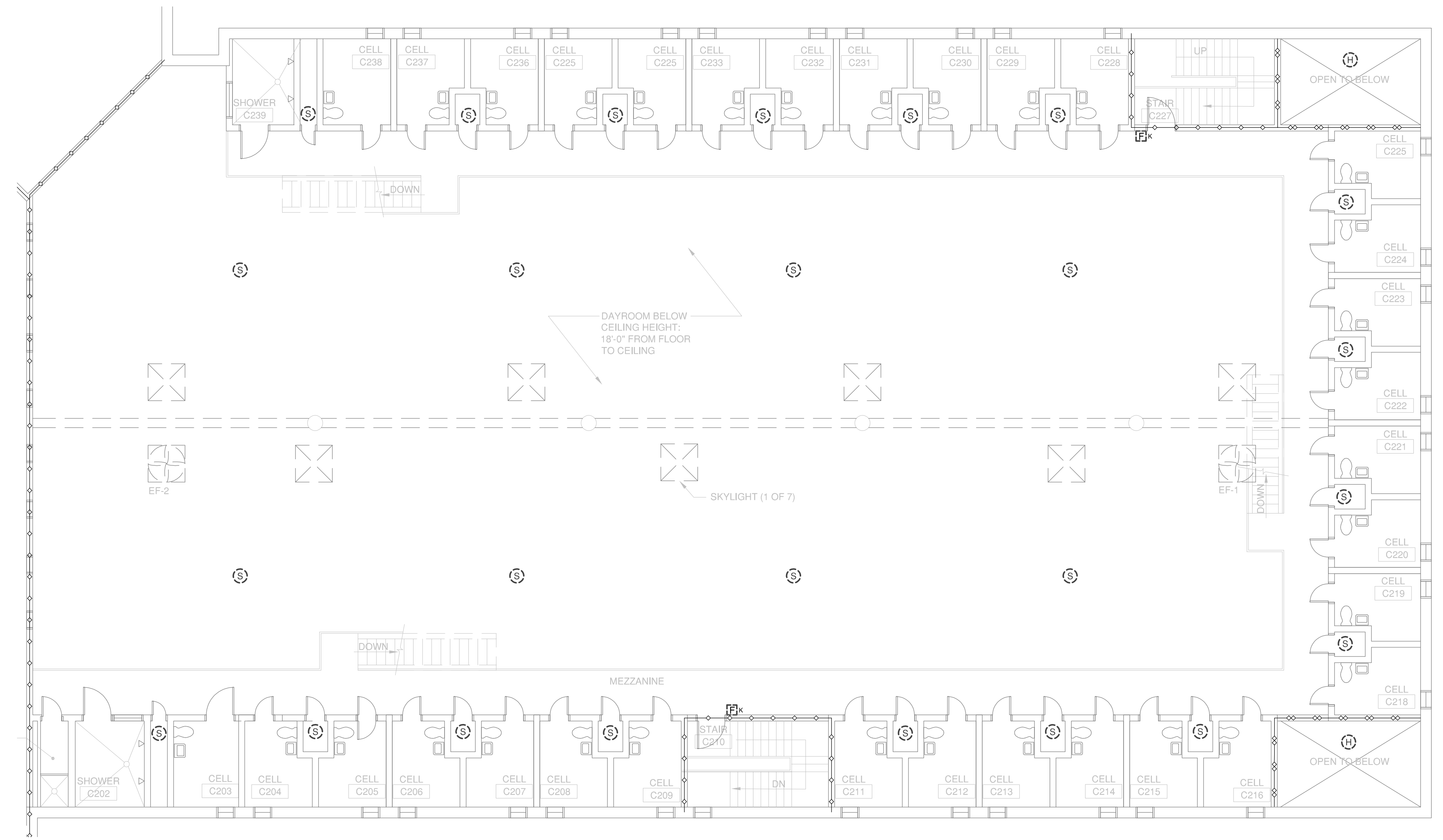


**GENERAL NOTES:**

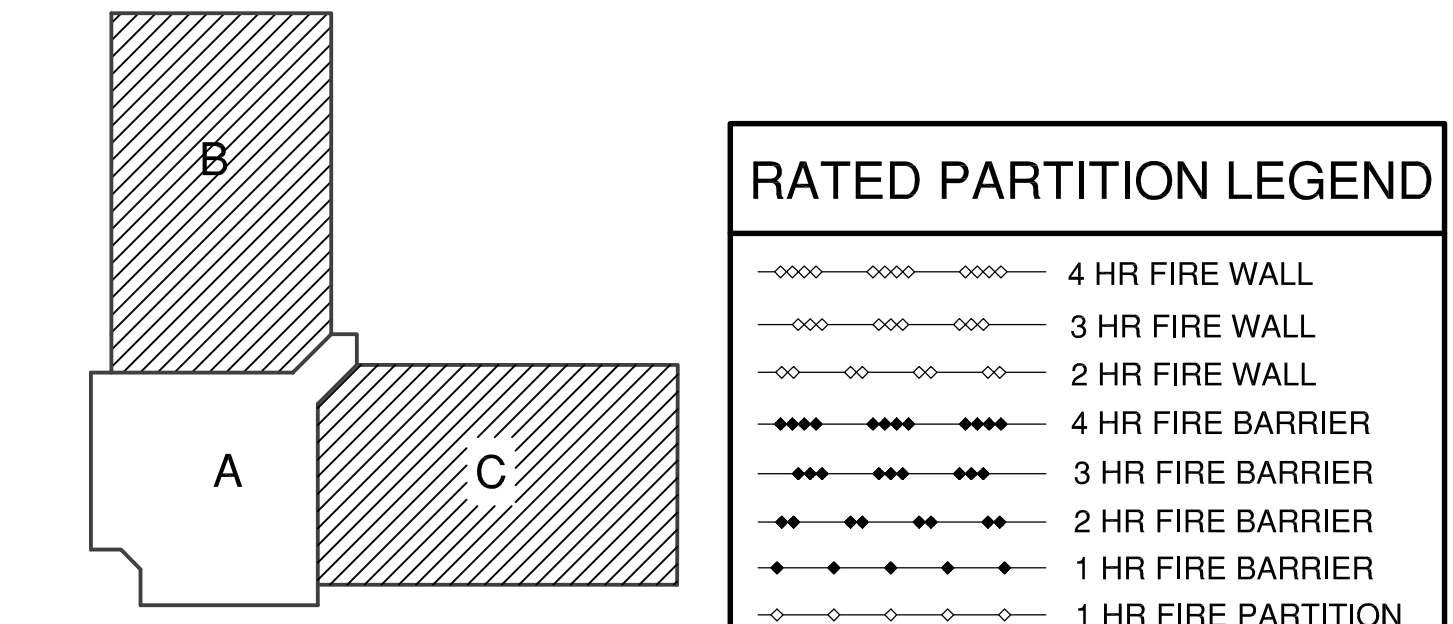
- REMOVE EXISTING FACU, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
- WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
- ABANDON CONCEALED CONDUIT, REMOVE WIRING.
- ALL DEMOLISHED DEVICES AND FACU SHALL BE TURNED OVER TO THE OWNER.
- ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- THE AREA SHALL BE UNDER FIRE WATCH DURING THE REPLACEMENT OF THE FIRE ALARM SYSTEM. NOTIFY THE FACILITY PRIOR TO TAKING THE EXISTING SYSTEM OFFLINE.



**MEZZANINE FLOOR AREA "B" - FIRE ALARM DEMOLITION PLAN**  
 SCALE: 1/8"=1'-0" 0 2' 4' 8'



**MEZZANINE FLOOR AREA "C" - FIRE ALARM DEMOLITION PLAN**  
 SCALE: 1/8"=1'-0" 0 2' 4' 8'



KEY PLAN - MEZZANINE FLOOR

RATED PARTITION LEGEND	
	4 HR FIRE WALL
	3 HR FIRE WALL
	2 HR FIRE WALL
	4 HR FIRE BARRIER
	3 HR FIRE BARRIER
	2 HR FIRE BARRIER
	1 HR FIRE BARRIER
	1 HR FIRE PARTITION
	2 HR SMOKE BARRIER
	1 HR SMOKE BARRIER
	SMOKE PARTITION

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 2869 US 64 ALT,  
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REPLACE OBSOLETE FA  
 SYSTEMS IN SINGLE CELL  
 UNITS 1, 2, 3 & 4

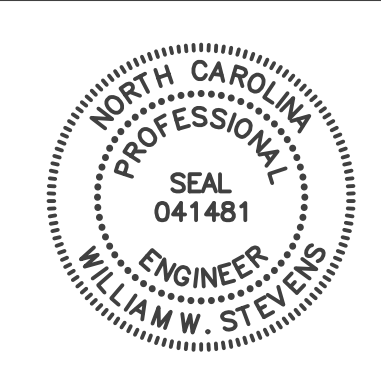
SCO ID # 22-24604-01A

**SINGLE CELL UNIT 4  
 MEZZANINE FLOOR "B" & "C"  
 DEMOLITION PLAN**

**EFD112**

S:\UNIT - DDP\Work - CI 3710\Projects\112-3587-Replace Fire Alarm System in Four Single Cell Units\CAD Drawings\SINGLE CELL UNIT-4\03987-E000-E000-GENERAL AND PLAN SHEETS - SINGLE CELL 4.dwg MARKED - 5/30 P

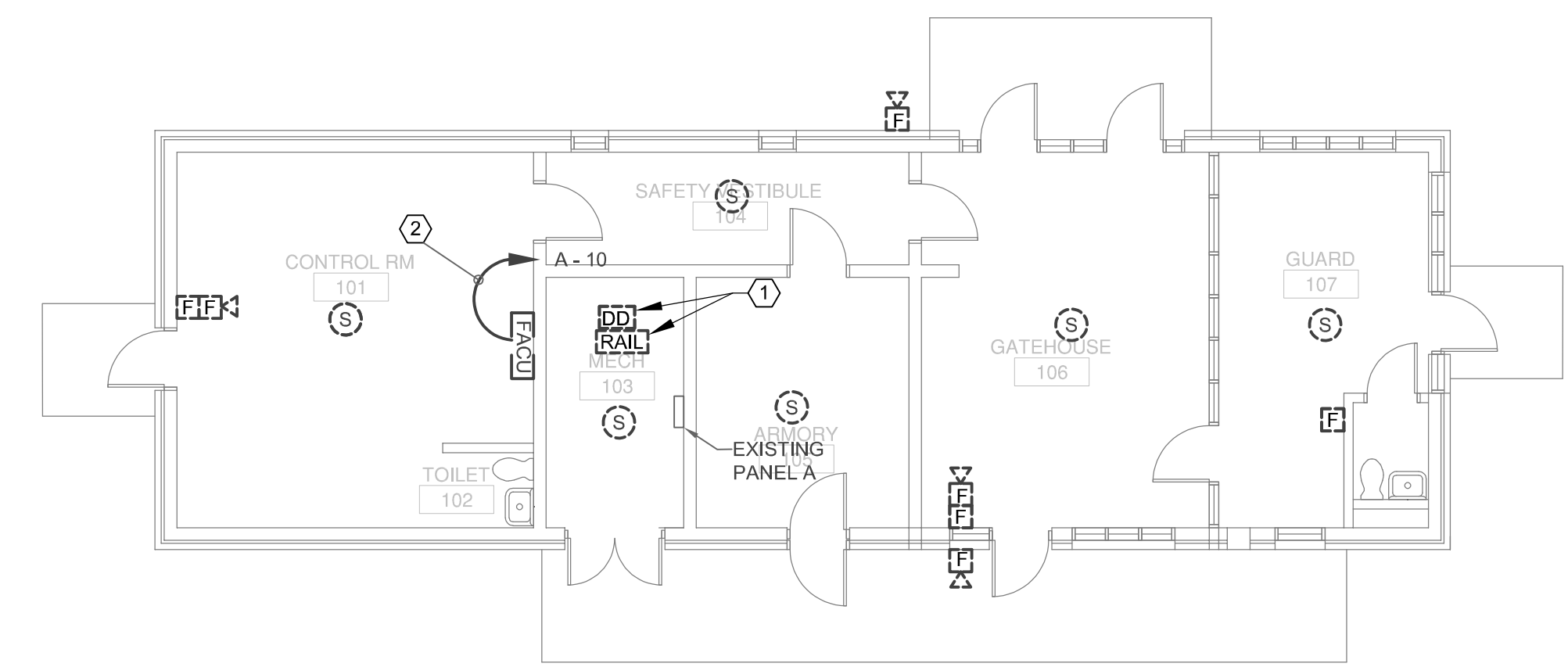
D  
C  
B  
A

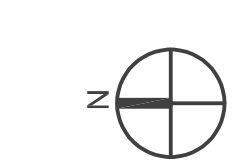
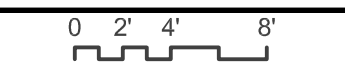


12.20.22 ISSUED FOR CONSTRUCTION

NO	DATE	REVISION

- GENERAL NOTES:**
- A. REMOVE EXISTING FACP, POWER SUPPLY PANEL, ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING COMPLETELY.
  - B. WHERE OUTLET BOXES AND CONDUIT ARE SURFACE MOUNTED ON WALLS OR CEILINGS, REMOVE BOX AND CONDUIT COMPLETELY. PATCH SURFACE AND PAINT AS NEEDED.
  - C. ABANDON CONCEALED CONDUIT, REMOVE WIRING.
  - D. ALL DEMOLISHED DEVICES AND FACP SHALL BE TURNED OVER TO THE OWNER.
  - E. ALL DEMOLITION WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
  - F. THE AREA SHALL BE UNDER FIRE WATCH DURING DEMOLITION AND INSTALLATION OF THE FIRE ALARM SYSTEM.
- Ⓟ SHEET KEYED NOTES:**
- 1. REMOVE DUCT DETECTOR RAIL AND ASSOCIATED WIRE AND CONDUIT.
  - 2. REMOVE 120 V BRANCH CIRCUIT COMPLETELY BACK TO SOURCE.



 **B2** **GATEHOUSE- FIRE ALARM DEMOLITION PLAN**  
EFD113 SCALE: 1/8"=1'-0"  


NO	DATE	REVISION

**NASH CORRECTIONAL INSTITUTION**  
2869 US 64 ALT.  
NASHVILLE, NC, 27856

**REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4**

SCO ID # 22-24604-01A  
**GATEHOUSE - FIRE ALARM DEMOLITION PLAN**



12.20.22 ISSUED FOR CONSTRUCTION

NO	DATE	REVISION
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DRAWN BY:	APD
DESIGNED BY:	ACD
CHECKED BY:	WWS
CADD DWG NO:	JO3987-EF101
JOB ORDER NO:	3987
PLOT DATE:	12.19.2022

**NASH CORRECTIONAL INSTITUTION**

2869 US 64 ALT,  
NASHVILLE, NC, 27856

REPLACE OBSOLETE FA  
SYSTEMS IN SINGLE CELL  
UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

**SINGLE CELL UNIT-1  
MAIN FLOOR AREA "A" & "C"  
FIRE ALARM PLAN**

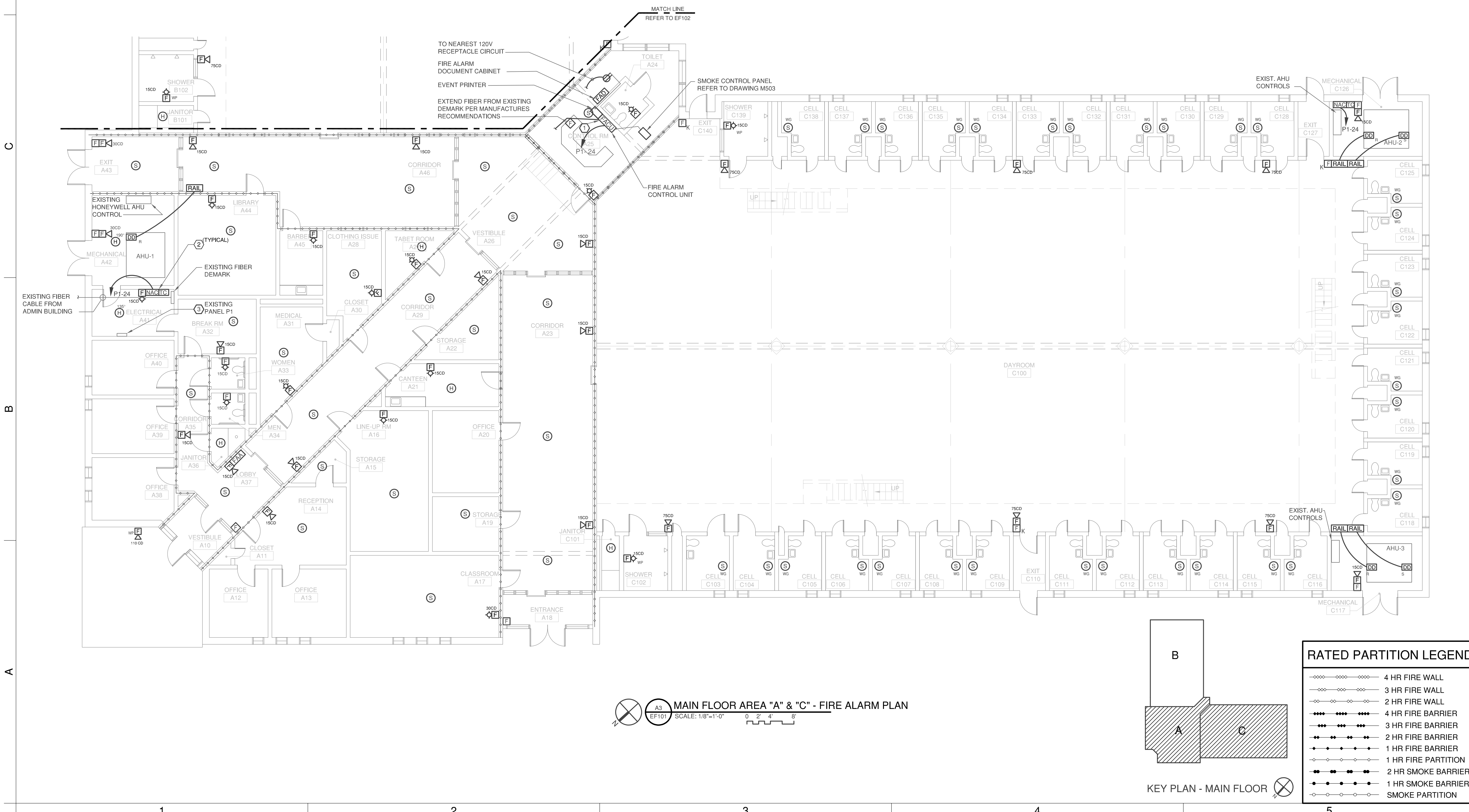
**EF101**

**GENERAL NOTES:**

- A. ALL CONDUITS MOUNTED 8'-0" AND BELOW SHALL BE RIGID GALVANIZED STEEL. CONDUITS AND DEVICES ARE SURFACE MOUNTED FOR THE MAJORITY OF THIS PROJECT.
- B. NO UNUSED KNOCKOUTS ARE ALLOWED ON BACK BOXES FOR FIRE ALARM DEVICES.
- C. PROVIDE THE TRIMMING WORK MATCH AND PAINT AROUND THE NEW FACU. PATCH SURFACE AND PAINT AS NEEDED.

**# SHEET KEYED NOTES:**

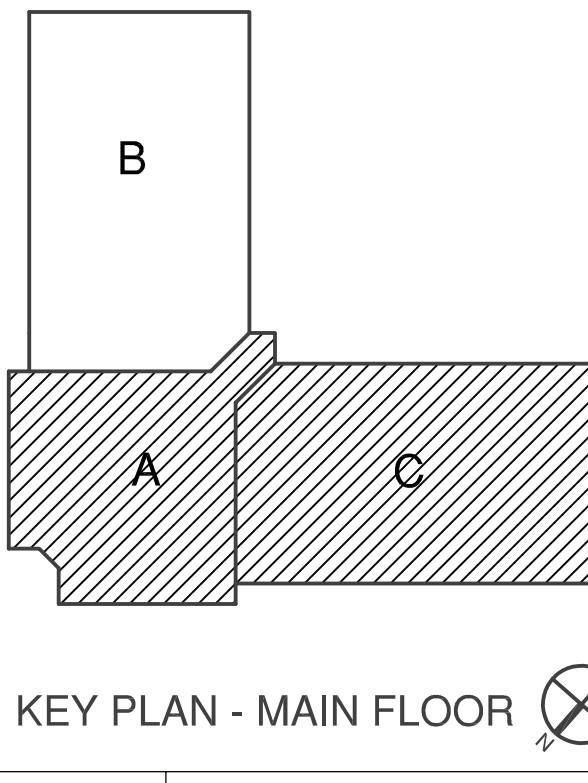
1. PROVIDE FACU INSTALLED IN THE LOCATION OF EXISTING FACU. REUSE EXISTING BREAKER #24 OF PANEL. PROVIDE NEW BRANCH CIRCUIT WIRING 2 #12, 1 #12 GND IN 3/4" CONDUIT FOR NEW FACU.
2. NOTIFICATION APPLIANCE CIRCUIT (NAC) PANEL. INCLUDES POWER SUPPLY, AMPLIFIERS AND LISTED TERMINAL CABINET AS RECOMMENDED BY MANUFACTURERS.
3. PANEL P1, 100 A, MCB 120/208V, 3Ø, 4W, SQUARE D TYPE NQOD CAT. NO. 2444559-DO. ALL NEW BREAKERS SHALL BE SAME AS EXISTING AND 10K AIC RATING.



**MAIN FLOOR AREA "A" & "C" - FIRE ALARM PLAN**  
SCALE: 1/8"=1'-0" 0 2' 4' 8'

**RATED PARTITION LEGEND**

[Symbol]	4 HR FIRE WALL
[Symbol]	3 HR FIRE WALL
[Symbol]	2 HR FIRE WALL
[Symbol]	4 HR FIRE BARRIER
[Symbol]	3 HR FIRE BARRIER
[Symbol]	2 HR FIRE BARRIER
[Symbol]	1 HR FIRE BARRIER
[Symbol]	1 HR FIRE PARTITION
[Symbol]	2 HR SMOKE BARRIER
[Symbol]	1 HR SMOKE BARRIER
[Symbol]	SMOKE PARTITION



D  
C  
B  
A





12.20.22 ISSUED FOR CONSTRUCTION

NO	DATE	REVISION

NASH CORRECTIONAL INSTITUTION  
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 NASHVILLE, NC, 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

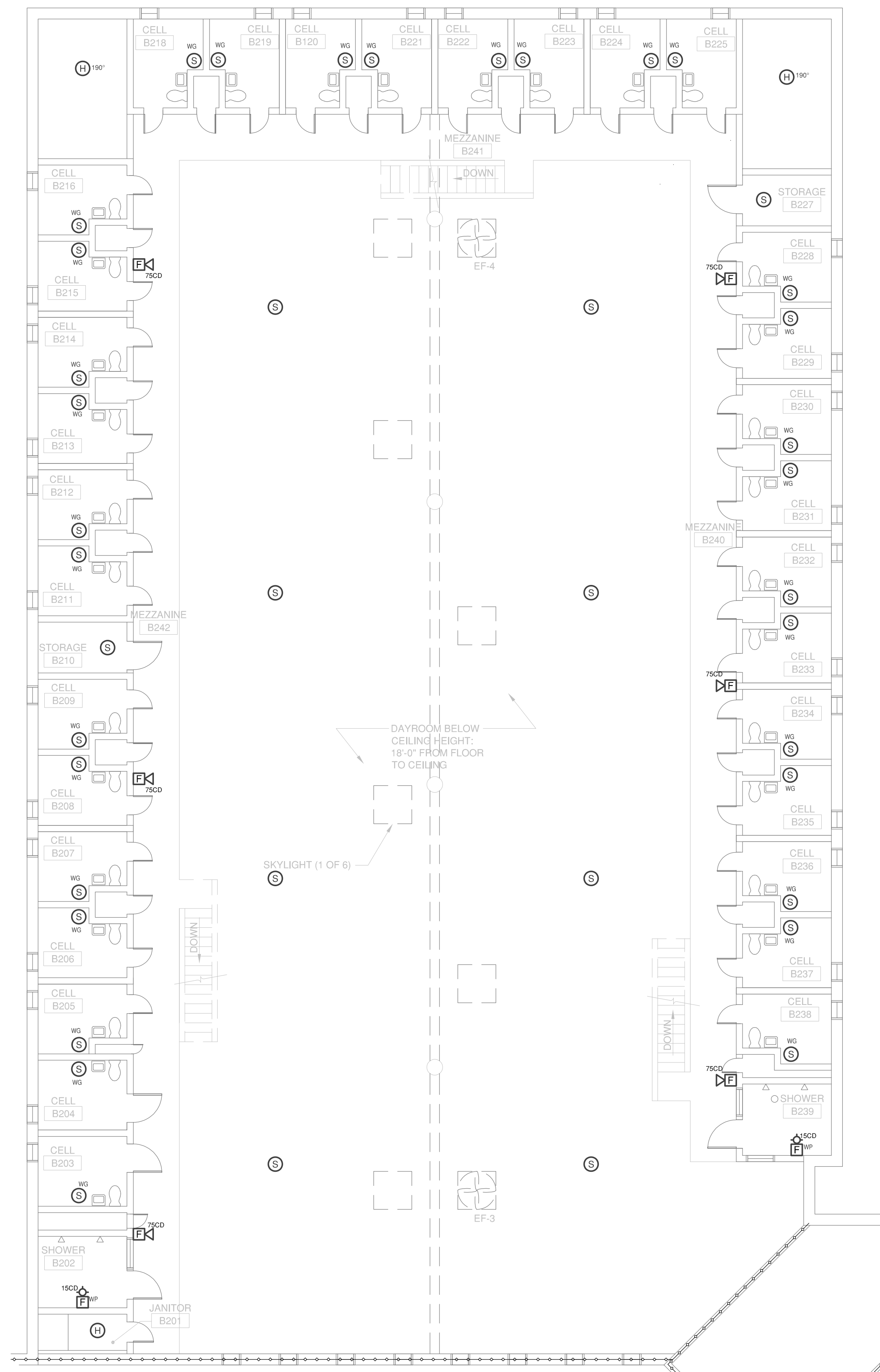
SCO ID # 22-24604-01A

**SINGLE CELL UNIT -1  
 MEZZANINE FLOOR  
 AREA "B" & "C"  
 FIRE ALARM PLAN**

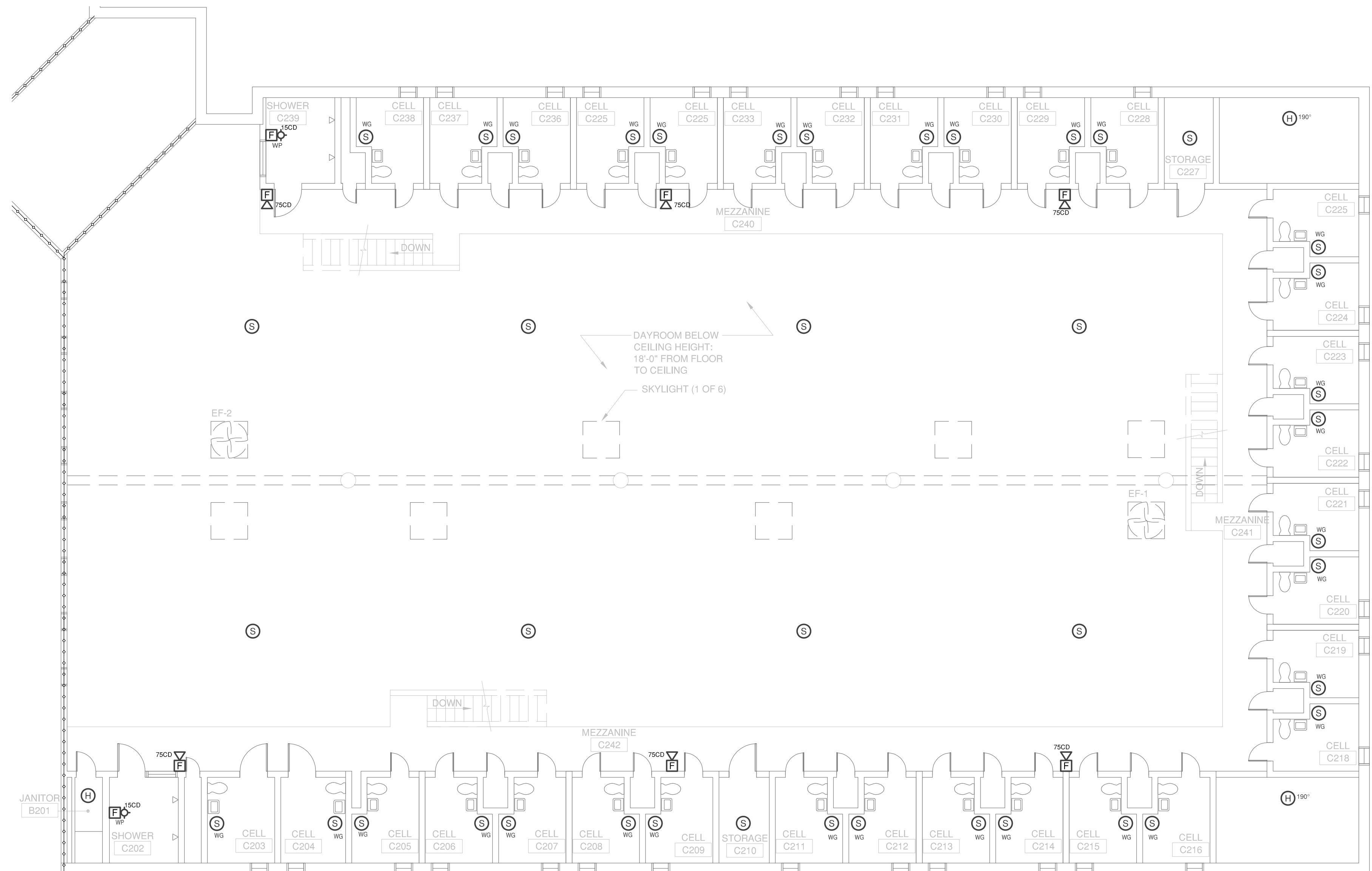
**EF103**

**GENERAL NOTES:**

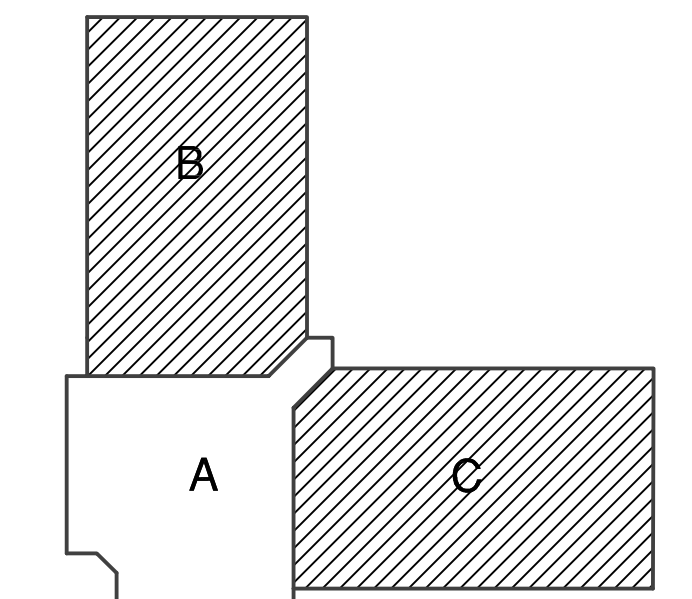
- A. ALL CONDUITS MOUNTED 8'-0" AND BELOW SHALL BE RIGID GALVANIZED STEEL. CONDUITS AND DEVICES ARE SURFACE MOUNTED FOR THE MAJORITY OF THIS PROJECT.
- B. NO UNUSED KNOCKOUTS ARE ALLOWED ON BACK BOXES FOR FIRE ALARM DEVICES.
- C. PROVIDE THE TRIMMING WORK MATCH AND PAINT AROUND THE NEW FACU. PATCH SURFACE AND PAINT AS NEEDED.



**A1 MEZZANINE AREA "B" - FIRE ALARM PLAN**  
 SCALE: 1/8"=1'-0"  
 0 2' 4' 8'



**A4 MEZZANINE AREA "C" - FIRE ALARM PLAN**  
 SCALE: 1/8"=1'-0"  
 0 2' 4' 8'



**KEY PLAN - MEZZ FLOOR**

RATED PARTITION LEGEND	
---o---o---o---	4 HR FIRE WALL
---o---o---	3 HR FIRE WALL
---o---	2 HR FIRE WALL
---o---o---o---	4 HR FIRE BARRIER
---o---o---	3 HR FIRE BARRIER
---o---	2 HR FIRE BARRIER
---o---o---	1 HR FIRE BARRIER
---o---	1 HR FIRE PARTITION
---o---o---	2 HR SMOKE BARRIER
---o---	1 HR SMOKE BARRIER
---o---	SMOKE PARTITION

S:\UNIT - 02\Wash. CI 3710\Projects\10\_3987 Replace Fire Alarm System in Four Single Cell Units\CAD Drawings\SINGLE CELL UNIT - 103987-E000-E000 GENERAL AND PLAN SHEETS - SINGLE CELL 1.000 - MARBLED 12/19/22 - 504 P



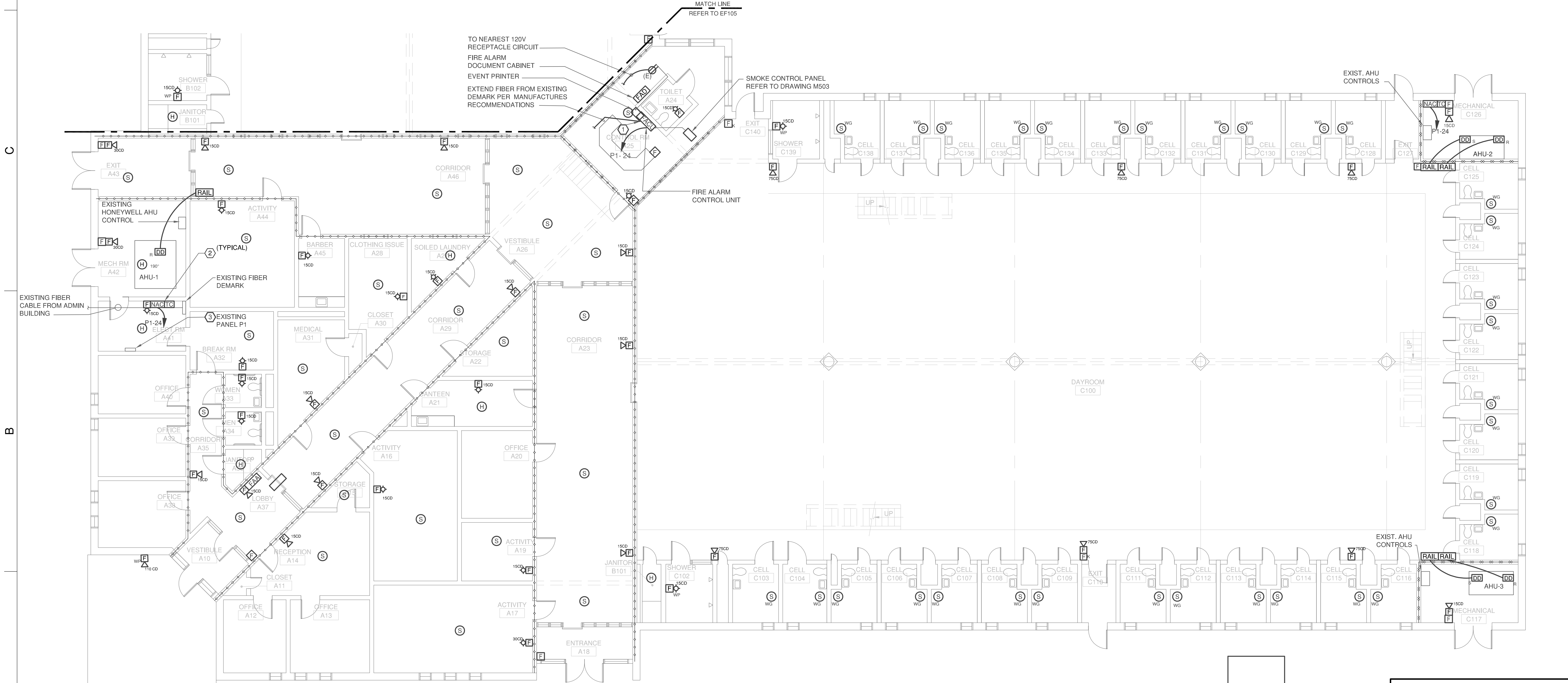
12.20.22 ISSUED FOR CONSTRUCTION

**GENERAL NOTES:**

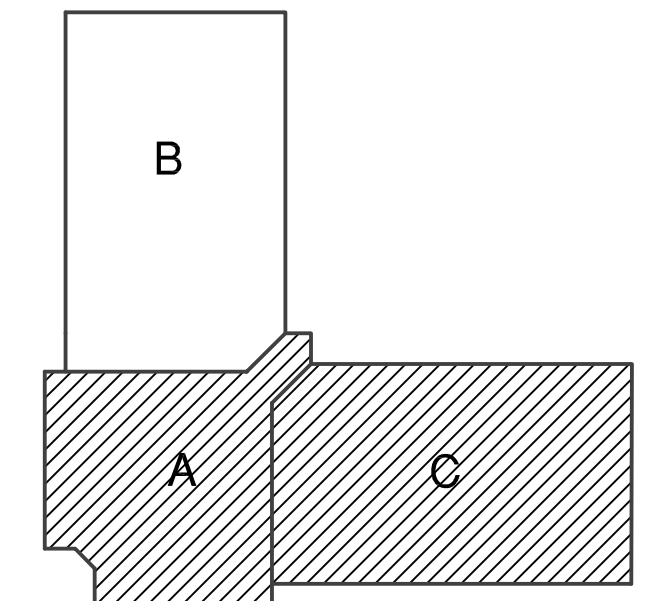
- ALL CONDUITS MOUNTED 8'-0" AND BELOW SHALL BE RIGID GALVANIZED STEEL. CONDUITS AND DEVICES ARE SURFACE MOUNTED FOR THE MAJORITY OF THIS PROJECT.
- NO UNUSED KNOCKOUTS ARE ALLOWED ON BACK BOXES FOR FIRE ALARM DEVICES.
- PROVIDE THE TRIMMING WORK MATCH AND PAINT AROUND THE NEW FACU. PATCH SURFACE AND PAINT AS NEEDED.

**# SHEET KEYED NOTES:**

- PROVIDE FACU INSTALLED IN THE LOCATION OF EXISTING FACU. REUSE EXISTING BREAKER #24 OF PANEL. PROVIDE NEW BRANCH CIRCUIT WIRING 2 #12, 1 #12 GND IN 3/4" CONDUIT FOR NEW FACU.
- NOTIFICATION APPLIANCE CIRCUIT (NAC) PANEL. INCLUDES POWER SUPPLY, AMPLIFIERS AND LISTED TERMINAL CABINET AS RECOMMENDED BY MANUFACTURERS.
- PANEL P1, 100 A, MCB 120/208V, 3Ø, 4W, SQUARE D TYPE NQOD CAT. NO. 2444926-ED. ALL NEW BREAKERS SHALL BE SAME AS EXISTING AND 10K AIC RATING.



**MAIN FLOOR AREA "A" & "C" - FIRE ALARM PLAN**  
SCALE: 1/8"=1'-0"  
0 2' 4' 8'



**KEY PLAN - MAIN FLOOR**

**RATED PARTITION LEGEND**

	4 HR FIRE WALL
	3 HR FIRE WALL
	2 HR FIRE WALL
	4 HR FIRE BARRIER
	3 HR FIRE BARRIER
	2 HR FIRE BARRIER
	1 HR FIRE BARRIER
	1 HR FIRE PARTITION
	2 HR SMOKE BARRIER
	1 HR SMOKE BARRIER
	SMOKE PARTITION

NO	DATE	REVISION

**NASH CORRECTIONAL INSTITUTION**  
2869 US 64 ALT,  
NASHVILLE, NORTH CAROLINA 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

**SINGLE CELL UNIT-2 MAIN FLOOR AREA "A" & "C" FIRE ALARM PLAN**

**EF104**



12.20.22 ISSUED FOR CONSTRUCTION

NO	DATE	REVISION
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DRAWN BY: APD  
DESIGNED BY: ACD  
CHECKED BY: WWS  
CADD DWG NO: JO3987-EF105  
JOB ORDER NO: 3987  
PLOT DATE: 12.19.2022

**NASH  
CORRECTIONAL  
INSTITUTION**

2889 US 64 ALT,  
NASHVILLE, NORTH CAROLINA 27856

REPLACE OBSOLETE FA  
SYSTEMS IN SINGLE CELL  
UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

**SINGLE CELL UNIT-2  
MAIN FLOOR AREA "B"  
FIRE ALARM PLAN**

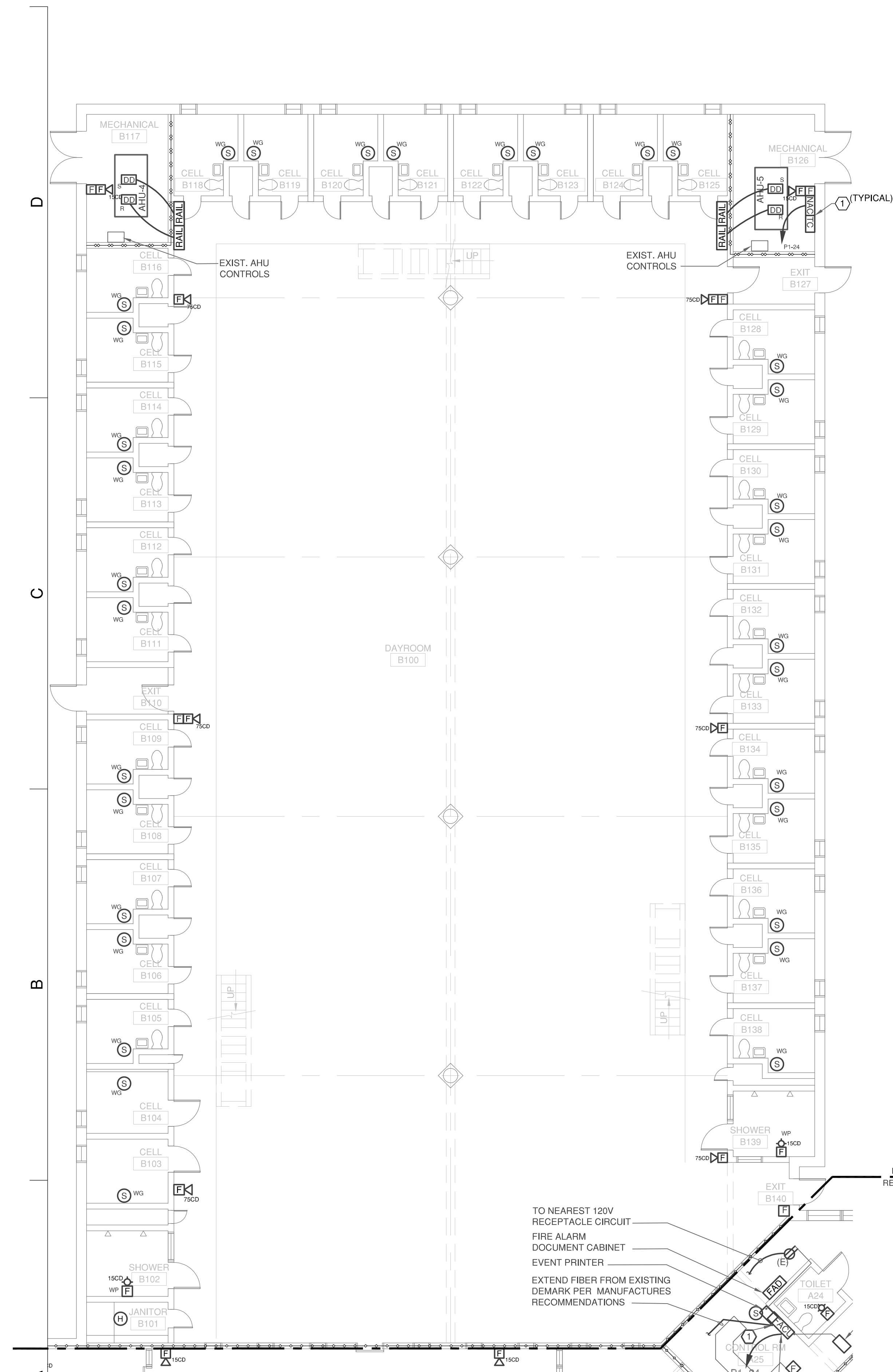
**EF105**

**GENERAL NOTES:**

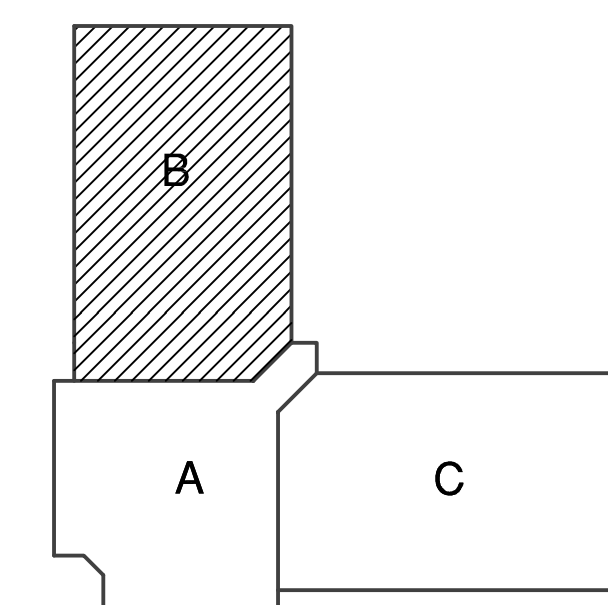
- ALL CONDUITS MOUNTED 8'-0" AND BELOW SHALL BE RIGID GALVANIZED STEEL. CONDUITS AND DEVICES ARE SURFACE MOUNTED FOR THE MAJORITY OF THIS PROJECT.
- NO UNUSED KNOCKOUTS ARE ALLOWED ON BACK BOXES FOR FIRE ALARM DEVICES.
- PROVIDE THE TRIMMING WORK MATCH AND PAINT AROUND THE NEW FACU. PATCH SURFACE AND PAINT AS NEEDED.

**# SHEET KEYED NOTES:**

- NOTIFICATION APPLIANCE CIRCUIT (NAC) PANEL INCLUDES POWER SUPPLY, AMPLIFIERS AND LISTED TERMINAL CABINET AS RECOMMENDED BY MANUFACTURER



**MAIN FLOOR AREA "B"- FIRE ALARM PLAN**  
SCALE: 1/8"=1'-0"  
0' 2' 4' 8'



KEY PLAN -1ST FLOOR

**RATED PARTITION LEGEND**

[Symbol]	4 HR FIRE WALL
[Symbol]	3 HR FIRE WALL
[Symbol]	2 HR FIRE WALL
[Symbol]	4 HR FIRE BARRIER
[Symbol]	3 HR FIRE BARRIER
[Symbol]	2 HR FIRE BARRIER
[Symbol]	1 HR FIRE BARRIER
[Symbol]	1 HR FIRE PARTITION
[Symbol]	2 HR SMOKE BARRIER
[Symbol]	1 HR SMOKE BARRIER
[Symbol]	SMOKE PARTITION



























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DRAWN BY: MHA  
DESIGNED BY: MHA  
CHECKED BY: WWS  
CADD DWG NO: J03987-EF601  
JOB ORDER NO: 3987  
PLOT DATE: 12.19.2022

**NASH CORRECTIONAL INSTITUTION**

2869 US 64 ALT,  
NASHVILLE, NC, 27856

REPLACE OBSOLETE FA SYSTEMS IN SINGLE CELL UNITS 1, 2, 3 & 4

SCO ID # 22-24604-01A

**FIRE ALARM SYSTEM MATRIX**

**EF601**

SYSTEM INPUTS	SYSTEMS OUTPUTS																								
	FACP ANNUNCIATION					NOTIFICATION					REQUIRED FIRE SAFETY CONTROL					SUPPLEMENTARY									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1 MANUAL FIRE ALARM BOXES	●	●					●	●		●	●												●	●	
2 SMOKE DETECTORS	●	●					●	●		●	●												●	●	
3 HEAT DETECTOR	●	●					●	●		●	●												●	●	
4 SUPPLY AIR DUCT DETECTOR - AHU - 1 & 2			●	●			●	●		●	●														
5 SUPPLY AIR DUCT DETECTOR - AHU - 3 & 4			●	●			●	●		●	●														
6 RETURN AIR DUCT DETECTOR - AHU - 1 & 2	●	●					●	●		●	●				●								●	●	
7 RETURN AIR DUCT DETECTOR - AHU - 3 & 4	●	●					●	●		●	●				●								●	●	
8 RETURN AIR DUCT DETECTOR - AHU - 5	●	●					●	●		●	●				●								●	●	
9 SMOKE CONTROL PANEL MANUAL SWITCH TURNED TO "OFF"					●		●	●		●	●														
10 SMOKE CONTROL PANEL MANUAL SWITCH TURNED TO "ON"			●				●	●		●	●														
11 GROUND FAULT					●	●																			
12 LOSS OF POWER (8 HOURS)					●	●																			
13 BATTERY FAILURE					●	●																			
14 OPEN CIRCUIT					●	●																			
15 NOTIFICATION APPLIANCE SHORT CIRCUIT					●	●																			
16 FIBER OPTIC NETWORK COMMUNICATION FAILURE			●	●			●	●		●	●														
17 AHU SHUTDOWN BYPASS SWITCH TO BYPASS (NOTE 1)					●	●																			
18 NOTIFICATION APPLIANCE BYPASS SWITCH TO BYPASS (NOTE 2)					●	●																			
19																									
20																									
21																									

NOTES:  
1. PROVIDE A SUPERVISED "AHU SHUTDOWN BYPASS" SWITCH (BUTTON) TO OVERRIDE SHUTDOWN OF THE AIR HANDLING UNITS. THE FACU SHALL INDICATE A TROUBLE CONDITION WHEN THE SWITCH IS ACTIVATED.  
2. PROVIDE A SWITCH (BUTTON) TO BYPASS THE ACTIVATION OF ALL NOTIFICATION APPLIANCES. THE FACU SHALL INDICATE A TROUBLE CONDITION WHEN THE SWITCH IS ACTIVATED.

**C1 FIRE ALARM MATRIX - TYPICAL OF SINGLE CELL UNIT 4**  
SCALE: NONE

SYSTEM INPUTS	SYSTEMS OUTPUTS																								
	FACP ANNUNCIATION					NOTIFICATION					REQUIRED FIRE SAFETY CONTROL					SUPPLEMENTARY									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1 MANUAL FIRE ALARM BOXES	●	●					●	●		●	●												●	●	
2 SMOKE DETECTORS	●	●					●	●		●	●												●	●	
3 HEAT DETECTOR	●	●					●	●		●	●												●	●	
4 RETURN AIR DUCT DETECTOR - AHU - 1	●	●					●	●		●	●				●								●	●	
5 RETURN AIR DUCT DETECTOR - AHU - 2 & 3	●	●					●	●		●	●				●								●	●	
6 RETURN AIR DUCT DETECTOR - AHU - 4 & 5	●	●					●	●		●	●				●								●	●	
7 SUPPLY AIR DUCT DETECTOR - AHU - 2 & 3			●	●			●	●		●	●														
8 SUPPLY AIR DUCT DETECTOR - AHU - 4 & 5			●	●			●	●		●	●														
9 SMOKE CONTROL PANEL MANUAL SWITCH TURNED TO "OFF"					●		●	●		●	●														
10 SMOKE CONTROL PANEL MANUAL SWITCH TURNED TO "ON"			●				●	●		●	●														
11 GROUND FAULT					●	●																			
12 LOSS OF POWER (8 HOURS)					●	●																			
13 BATTERY FAILURE					●	●																			
14 OPEN CIRCUIT					●	●																			
15 NOTIFICATION APPLIANCE SHORT CIRCUIT					●	●																			
16 FIBER OPTIC NETWORK COMMUNICATION FAILURE			●	●			●	●		●	●														
17 AHU SHUTDOWN BYPASS SWITCH TO BYPASS (NOTE 1)					●	●																			
18 NOTIFICATION APPLIANCE BYPASS SWITCH TO BYPASS (NOTE 2)					●	●																			
19																									
20																									
21																									

NOTES:  
1. PROVIDE A SUPERVISED "AHU SHUTDOWN BYPASS" SWITCH (BUTTON) TO OVERRIDE SHUTDOWN OF THE AIR HANDLING UNITS. THE FACU SHALL INDICATE A TROUBLE CONDITION WHEN THE SWITCH IS ACTIVATED.  
2. PROVIDE A SWITCH (BUTTON) TO BYPASS THE ACTIVATION OF ALL NOTIFICATION APPLIANCES. THE FACU SHALL INDICATE A TROUBLE CONDITION WHEN THE SWITCH IS ACTIVATED.

**A1 FIRE ALARM MATRIX - TYPICAL OF SINGLE CELL UNITS 1, 2 & 3**  
SCALE: NONE

SYSTEM INPUTS	SYSTEMS OUTPUTS																								
	FACP ANNUNCIATION					NOTIFICATION					REQUIRED FIRE SAFETY CONTROL					SUPPLEMENTARY									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1 MANUAL FIRE ALARM BOXES (GATEHOUSE)	●	●					●	●		●	●												●	●	
2 HEAT DETECTORS (GATEHOUSE)	●	●					●	●		●	●												●	●	
3 SMOKE DETECTORS (GATEHOUSE)	●	●					●	●		●	●												●	●	
4 RETURN AIR DUCT DETECTOR (GATEHOUSE)	●	●					●	●		●	●							●					●	●	
5 ADMINISTRATION BUILDING			●	●			●	●		●	●														
6 SINGLE CELL UNIT 1	●	●					●	●		●	●														
7 SINGLE CELL UNIT 2	●	●					●	●		●	●														
8 SINGLE CELL UNIT 3	●	●					●	●		●	●														
9 SINGLE CELL UNIT 4	●	●					●	●		●	●														
10 GYMNASIUM	●	●					●	●		●	●														
11 SEGREGATION	●	●					●	●		●	●														
12 VOCATIONAL	●	●					●	●		●	●														
13 CHAPEL							●	●		●	●														
14 SEMINARY							●	●		●	●														
15 DISPENSARY							●	●		●	●														
16 FOOD SERVICE							●	●		●	●														
17 OPERATIONS BUILDING							●	●		●	●														
18 CO-GEN							●	●		●	●														
19 WATER FLOW			●	●			●	●		●	●												●	●	
20 FIRE PUMP CONTROL VALVE							●	●		●	●														
21 POST INDICATOR VALVE (PIV)							●	●		●	●														
22 GROUND FAULT							●	●		●	●														
23 LOSS OF POWER (8 HOURS)							●	●		●	●														
24 BATTERY FAILURE							●	●		●	●														
25 OPEN CIRCUIT							●	●		●	●														
26 NOTIFICATION APPLIANCE SHORT CIRCUIT							●	●		●	●														
27 FIRE ALARM NETWORK COMMUNICATION FAILURE							●	●		●	●														
28 AHU SHUTDOWN BYPASS SWITCH TO BYPASS (NOTE 1)							●	●		●	●														
29 NOTIFICATION APPLIANCE BYPASS SWITCH TO BYPASS (NOTE 2)							●	●		●	●														
30 FIRE PUMP POWER							●	●		●	●														
31 FIRE PUMP AUTO POSITION							●	●		●	●														
32 FIRE PUMP OR CONTROLLER TROUBLE							●	●		●	●														

NOTES:  
1. PROVIDE A SUPERVISED "AHU SHUTDOWN BYPASS" SWITCH (BUTTON) TO OVERRIDE SHUTDOWN OF THE AIR HANDLING UNITS. THE FACU SHALL INDICATE A TROUBLE CONDITION WHEN THE SWITCH IS ACTIVATED.  
2. PROVIDE A SWITCH (BUTTON) TO BYPASS THE ACTIVATION OF ALL NOTIFICATION APPLIANCES. THE FACU SHALL INDICATE A TROUBLE CONDITION WHEN THE SWITCH IS ACTIVATED.

**A4 FIRE ALARM MATRIX - GATEHOUSE MASTER CONTROL PANEL**  
SCALE: NONE

