





















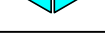







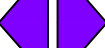








PROJECT #: 24D1K21100.100
ENG: DET CAD: DE

| EDWARDS FIRE ALARM BACKBOX LEGEND | | | | | |
|---|--|--|---|---|---------------------------------------|
| SYMBOL(S) | MANUFACTURER(MODEL(S)) | DESCRIPTION | BACKBOX | TYPICAL MOUNTING, CONSULT ARCHITECT/OWNER/AHJ | DIMENSIONS |
|  | EDWARDS SIGA-278 | PULL STATION | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH 3'-6" TO CENTER AFF | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS SIGA-OSD WITH SIGA-SB BASE | SMOKE DETECTOR | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH QUAM SSB-15 CEILING TILE | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 4.186"W x 2.316"H 3.954" DIAMETER |
|  | EDWARDS SIGA-COD | CARBON MONOXIDE LIFE SAFETY DETECTOR | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH QUAM SSB-15 CEILING TILE | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 4.186"W x 2.316"H 3.954" DIAMETER |
|  | EDWARDS SIGA-HRD WITH SIGA-SB BASE | HEAT DETECTOR | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH QUAM SSB-15 CEILING TILE | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 4.186"W x 2.316"H 3.954" DIAMETER |
|  | EDWARDS SIGA-SD | DUCT DETECTOR | DEVICE COMES WITH ITS OWN MOUNTING BOX AND HARDWARE | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 5.45"W x 8.7"H x 1.9"D |
|  | EDWARDS SD-TRK | REMOTE TEST STATION | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS SIGA-CR / SIGA-CRH / SIGA-CRR | CONTROL RELAY | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS SIGA-CT1 | SINGLE INPUT MODULE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS SIGA-CT2 / SIGA-MCT2 | DOUBLE INPUT MODULE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS G4SWF W/ STI-1221E (# INDICATES WATTAGE) | WALL MOUNTED SPEAKER | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH 96" TO TOP AFF | 4.95"W x 5.78"H x 1.62"D |
|  | EDWARDS GCVWF W/ STI-1221E (# INDICATES CANDELA) | CEILING MOUNTED STROBE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH QUAM SSB-15 CEILING TILE | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 6.8"W+H x 1.82"D |
|  | EDWARDS G4AVWF (# INDICATES CANDELA) | WALL MOUNTED HORN STROBE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 778 DOUBLE-GANG PLASTER RING | MOUNTED FLUSH 96" TO TOP AFF | 4.95"W x 5.78"H x 1.62"D |
|  | EDWARDS GCVWF | CEILING MOUNTED HORN STROBE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH QUAM SSB-15 CEILING TILE | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 6.8"W+H x 1.82"D |
|  | EDWARDS GWF-VMH (# INDICATES CANDELA) | WALL MOUNTED SPEAKER STROBE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 778 DOUBLE-GANG PLASTER RING | MOUNTED FLUSH 96" TO TOP AFF | 4.95"W x 5.78"H x 1.62"D |
|  | EDWARDS GCF-VMH (# INDICATES CANDELA) | CEILING MOUNTED SPEAKER STROBE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH QUAM SSB-15 CEILING TILE | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 6.8"W+H x 1.82"D |
|  | EDWARDS 965-1A-8RW W/960A-8RF | CEILING MOUNTED SPEAKER WITH FLUSH MOUNT BACKBOX | EST 960A-8RF ROUND BACKBOX | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 12"W+H x 2.625"D |
|  | EDWARDS SIGA-IM2 | ISOLATION MODULE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 778 DOUBLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS SIGA-CT2 | DUAL INPUT MODULE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS SIGA-CT2 | DUAL INPUT MODULE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS SIGA-CT1 | SINGLE INPUT MODULE | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | NO DIMENSION SPECIFICATIONS AVAILABLE |
|  | EDWARDS 1504-AQN5 | DOOR HOLDER | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R WITH RACO 772 SINGLE-GANG PLASTER RING | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 2.75"W x 4.5"H x 0.81"D |
|  | STEEL CITY 52171 (OR SIMILAR) | 4" SQUARE PULL BOX | 2-1/8" DEEP BACKBOX RACO 232CS OR STEEL CITY 521511234EW-50R | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 4"W x 4"H x 2.125"D |
|  | HOFFMAN ASE12X12X4NK (OR SIMILAR) | 12" SQUARE PULL BOX | HAMMOND MFG PULL BOX | MOUNTED FLUSH PER JOB SPECIFICATION AND APPLICATION | 12"W x 12"H x 4"D |
|  | EDWARDS TERMINAL CABINET | TERMINAL CABINET | SIZES MAY VARY PER CABNET | SURFACE MOUNTED, OR FLUSH 54" AFF | SIZES MAY VARY PER CABNET |
|  | EDWARDS EST-IO 1000RD | CONTROL PANEL | SIZES MAY VARY PER CABNET | SURFACE MOUNTED, OR FLUSH 54" AFF | SIZES MAY VARY PER CABNET |
|  | EDWARDS EST-RLCD-C | ANNUNCIATOR PANEL | SIZES MAY VARY PER CABNET | SURFACE MOUNTED, OR FLUSH 54" AFF | SIZES MAY VARY PER CABNET |
|  | EDWARDS EST-APS6A | AUXILIARY/BOOSTER POWER SUPPLY | 12"W x 26"H x 5.3"D | SURFACE MOUNTED, OR FLUSH 54" AFF | 12"W x 26"H x 5.3"D |
|  | EDWARDS EST-BPS8A | BOOSTER POWER SUPPLY | 6.5"W x 17"H x 3.375"D | SURFACE MOUNTED, OR FLUSH 54" AFF | 6.5"W x 17"H x 3.375"D |
|  | EDWARDS EST-30 WATT INTELLIGENT AMP | AUXILIARY/BOOSTER POWER SUPPLY | 12"W x 26"H x 5.3"D | SURFACE MOUNTED, OR FLUSH 54" AFF | 12"W x 26"H x 5.3"D |

ALL BACKBOXES MUST BE METAL.
ALL BACKBOXES MUST BE GROUNDED BY THE ELECTRICAL CONTRACTOR, TYPICALLY THROUGH CONDUIT.

| EDWARDS FIRE ALARM CABLE LEGEND | | |
|---|---------------------------------|---|
| LINETYPE | MANUFACTURER/MODEL | DESCRIPTION |
|  | WINDY CITY 727109 | FA SIGA DATA WIRE: 1 PR #16 AWG RED JKT |
|  | WINDY CITY 728100-S | FA SIGA DATA WIRE: 1 PR #16 AWG RED JKT. W/ WHITE STRIPE |
|  | WINDY CITY 728102 | FA SIGA DATA WIRE: 1 PR #16 AWG RED JTK. W/ BLUE STRIPE |
|  | WINDY CITY 729100LSZH C I CABLE | FA SIGA DATA WIRE: 1 PR #14 AWG RED JKT |
|  | WINDY CITY 729100LSZH C I CABLE | FA SPEAKER WIRE: 1 PR #14 AWG RED JKT |
|  | WINDY CITY 729100LSZH C I CABLE | FA SPEAKER WIRE: 1 PR #14 AWG RED JKT |
|  | WINDY CITY 728104 | FA SPEAKER WIRE: 1 PR #16 AWG RED JKT. W/ ORANGE STRIPE |
|  | WINDY CITY 728103 | FA SPEAKER WIRE: 1 PR #16 AWG RED JKT. W/ YELLOW STRIPE |
|  | USAWC #14 THHNST | FA STROBE WIRE : THHN #14 AWG STR. 2 CON. BLUE [+] WHITE [-] |
|  | USAWC #14 THHNST | FA STROBE WIRE : THHN #14 AWG STR. 2 CON. BROWN [+] ORANGE [-] |
|  | USAWC #14 THHNST | FA STROBE WIRE : THHN #14 AWG SOLID 2 CON. RED [+] BLACK [-] |
|  | USAWC #14 THHNST | FA DOOR POWER WIRE: THHN #14 AWG STR. 2 CON. RED [+] BLACK [-] |
|  | USAWC #14 THHNST | FA DAMPER POWER WIRE: THHN #14 AWG STR. 2 CON. YELLOW [+] GREY [-] |
|  | USAWC #14 THHNST | FIRE EXTINGUISHER POWER WIRE: THHN #14 AWG STR. 2 CON. PURPLE [+] GREEN [-] |
|  | WINDY CITY 727300 | FA LED/KEY SW WIRE : 4 CON #18 AWG STR. |

| CONDUIT LEGEND | |
|---|-------------------|
| LINETYPE | CONDUIT SIZE/TYPE |
|  | 1" EMT |
|  | 3/4" EMT |
|  | 3/4" FLEX |
|  | 1/2" FLEX |



AUDIO VISUAL / NURSE CALL / SECURITY / LIFE SAFETY
INTERCOMMUNICATIONS / TELEPHONE & DATA DESIGN

PAVION
114 MACKENAN DR., SUITE 300
CARY, NC 27511
P: 919.266.9908
F: 919.266.9473
WWW.PAVION.COM

NC ELECTRICAL CONTRACTORS LICENSE #
SP-FA/LV-35479
NC BURGLAR ALARM LICENSE #838-CBA
VA CLASS A CONTRACTORS LICENSE # 275-127876A
VA DCIS LICENSE # 11-6330

ARCHITECT OR ENGINEER

ARCH OR ENG
ADDRESS 1
ADDRESS 2
P: 555.555.1234
F: 555.555.3456
NAME@NAME.COM



hcs
HARNETT
COUNTY
SCHOOLS

☐ DESIGN ☒ BUILD ☐ AS-BUILT

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| 01 | SUBMITTAL | 20 APR 25 |
| NUMBER | ISSUE | DATE |

**LILLINGTON-SHAWTOWN
ELEMENTARY SCHOOL**
855 OLD US HWY 421
LILLINGTON, NC 27546
OWNER

GYM EST-3 EXTENSION

PROJECT

FIRE ALARM
SECTION

NONE
SCALE

**SYMBOL AND
BACKBOX LEGEND**
TITLE

FA-01-0001
PROJECT #: 3409K21100.100
ENG: DET CAD: DET



AUDIO VISUAL / NURSE CALL / SECURITY / LIFE SAFETY
INTERCOMMUNICATIONS / TELEPHONE & DATA DESIGN

PAVION
114 MACKENAN DR, SUITE 300
CARY, NC 27511
P: 919.266.9008
F: 919.266.9479
WWW.PAVION.COM

NC ELECTRICAL CONTRACTORS LICENSE # SP.FA.V.35479
NC BURGLAR ALARM LICENSE # 835-GSA
VA CLASS A CONTRACTORS LICENSE # 275-127816A
VA DCIS LICENSE # 11-6330

ARCHITECT OR ENGINEER

ARCH OR ENG

ADDRESS 1
ADDRESS 2
P: 555.555.1234
F: 555.555.3456
NAME@NAME.COM



☐ DESIGN ☒ BUILD ☐ AS-BUILT

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| 01 | SUBMITTAL | 20 APR 25 |
| NUMBER | ISSUE | DATE |

**LILLINGTON-SHAWTOWN
ELEMENTARY SCHOOL**
855 OLD US HWY 421
LILLINGTON, NC 27546
OWNER

GYM EST-3 EXTENSION

PROJECT

FIRE ALARM

SECTION

3/32" = 1'-0"

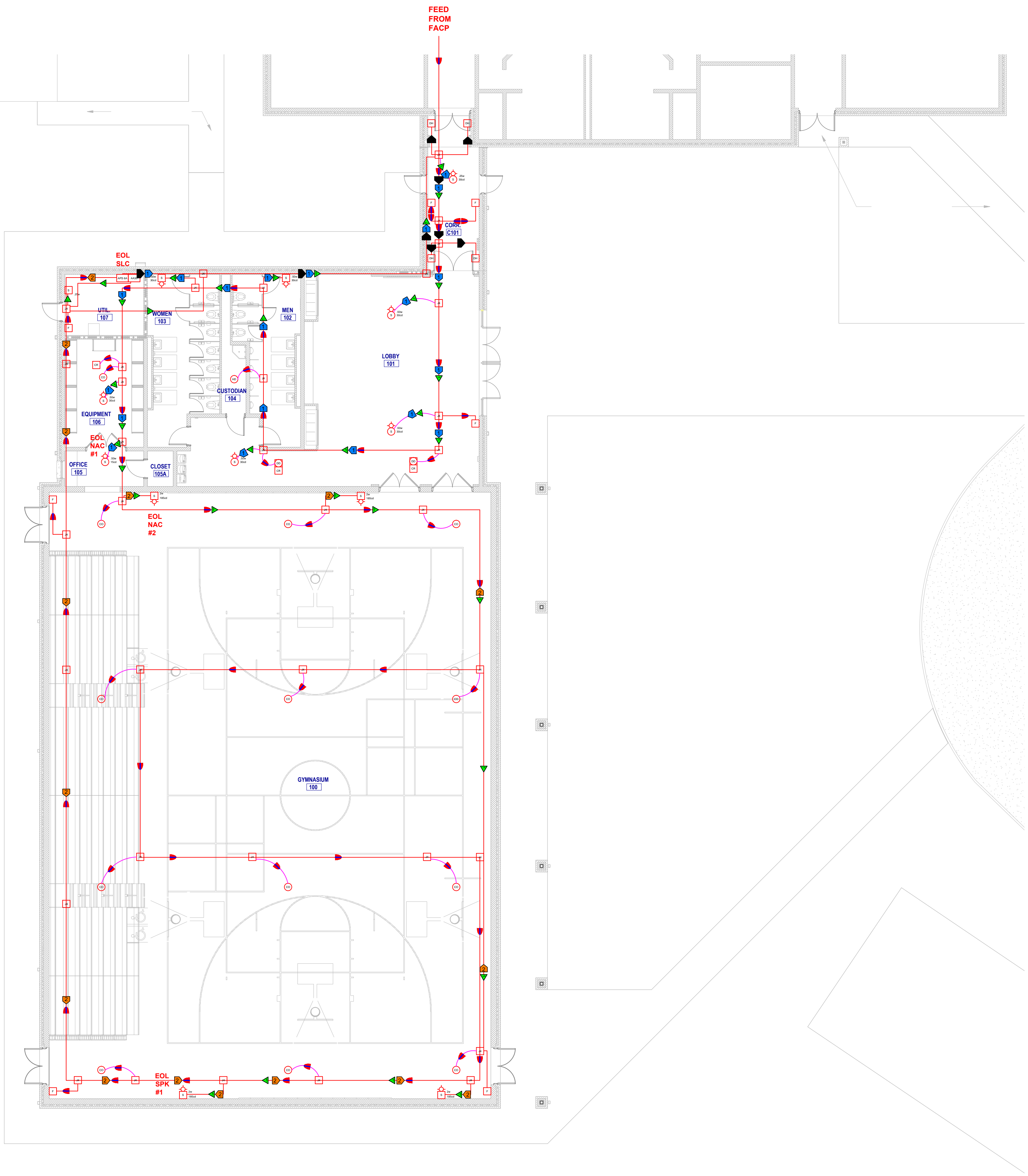
SCALE

REFLECTED CEILING PLAN

TITLE

FA-01-0101

PROJECT #: 24D1K2100-100
ENG: DET
SHEET
CAD: DET



| | ACTIVATE COMMON ALARM SIGNAL INDICATOR | | | | | | | | | | | | | | | | | | | | | | | | ACTIVATE AUDIBLE ALARM SIGNAL | | | | | | | | | | | | | | | | | | | | | | | | ACTIVATE COMMON SUPERVISORY SIGNAL | | | | | | | | | | | | | | | | | | | | | | | | ACTIVATE AUDIBLE SUPERVISORY SIGNAL INDICATOR | | | | | | | | | | | | | | | | | | | | | | | | ACTIVATE COMMON TROUBLE SIGNAL | | | | | | | | | | | | | | | | | | | | | | | | ACTIVATE GENERAL TROUBLE SIGNAL | | | | | | | | | | | | | | | | | | | | | | | | DISPLAY CHANGE OF STATUS | | | | | | | | | | | | | | | | | | | | | | | | ACTIVATE EXTERNAL EVACUATION SIGNAL | | | | | | | | | | | | | | | | | | | | | | | | TRANSMIT FIRE ALARM SIGNAL | | | | | | | | | | | | | | | | | | | | | | | | RETURN ELEVATOR TO FIRST FLOOR | | | | | | | | | | | | | | | | | | | | | | | | SHUNT TRIP AFTER ELEV. REACHES DESIGNATED FLOOR | | | | | | | | | | | | | | | | | | | | | | | | SHOW CHANGE OF STATUS ON ANNUNCIATOR | | | | | | | | | | | | | | | | | | | | | | | | TRANSMIT FIRE ALARM SIGNAL TO CENTRAL PANEL | | | | | | | | | | | | | | | | | | | | | | | | TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION | | | | | | | | | | | | | | | | | | | | | | | | TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MANUAL FIRE ALARM PULL BOXES | X | X | | | | | | X | X | X | X | | | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FIRE ALARM MATRIX



AUDIO VISUAL / NURSE CALL / SECURITY / LIFE SAFETY
INTERCOMMUNICATIONS / TELEPHONE & DATA DESIGN

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**LILLINGTON-SHAWTOWN
ELEMENTARY SCHOOL**
855 OLD US HWY 421
LILLINGTON, NC 27546
OWNER

GYM EST-3 EXTENSION

PROJECT

FIRE ALARM
SECTION

NONE
SCALE

FIRE ALARM MATRIX
TITLE

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FIRE ALARM SPECIFICATIONS

- A. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. SYSTEM SHALL BE SIMPLEX, NOTIFIER, SIEMENS, OR APPROVED EQUAL AS ACCEPTED BY THE ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP.
- B. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE AND VISUAL INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL RESOUND THE SYSTEM. AN AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION SIGNAL FOR NOTIFYING THE FIRE DEPARTMENT.
- C. MANUAL STATIONS SHALL BE NON-CODED, WITH DUAL-ACTION PULL AND KEY TYPE RESET, SEMI-FLUSH MOUNTED. COMBINATION LIGHT AND HORN SIGNALS SHALL BE FLUSH MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THHN. ALL J-BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
- D. SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH SHALL DISTINGUISH BETWEEN A CONDUIT FAULT AND A CLOSED VALVE. A CLOSED VALVE SHALL BE INDICATED AS AN ALARM CONDITION, BUT WILL NOT ACTIVATE THE AUDIO-VISUAL DEVICES AND SHALL CAUSE A SUPERVISORY SIGNAL TO BE TRANSMITTED TO THE FIRE DEPARTMENT.
- E. CONDUCTORS SHALL BE PLENUM-RATED AND INSTALLED IN CONDUIT AND INSTALLED IN COMPLIANCE WITH NFPA 70, ARTICLE 760, IN ADDITION TO WIRING METHODS 300.4.
- F. ALL FIRE ALARM WIRING SHALL BE CLASS B.
- G. PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
- H. SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND FOR APPROVAL.
- I. FILL OUT NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING JURISDICTION.
- J. WARRANTY - ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER AND/OR OWNER. THE FULL COST OF MAINTENANCE, LABOR, AND MATERIALS REQUIRED TO CORRECT ANY DEFECT DURING THIS TWO YEAR PERIOD SHALL BE IMMEDIATELY CORRECTED AT NO ADDITIONAL COST TO THE OWNER. ANY DEFECTS THAT RENDER THE SYSTEM INOPERATIVE SHALL BE REPAIRED WITHIN 24 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. OTHER DEFECTS SHALL BE REPAIRED WITHIN 48 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR.
- K. AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 520HZ TONE COMPATIBLE WITH NFPA 72 18.4.5.3.

FIRE ALARM SYSTEM MATRIX

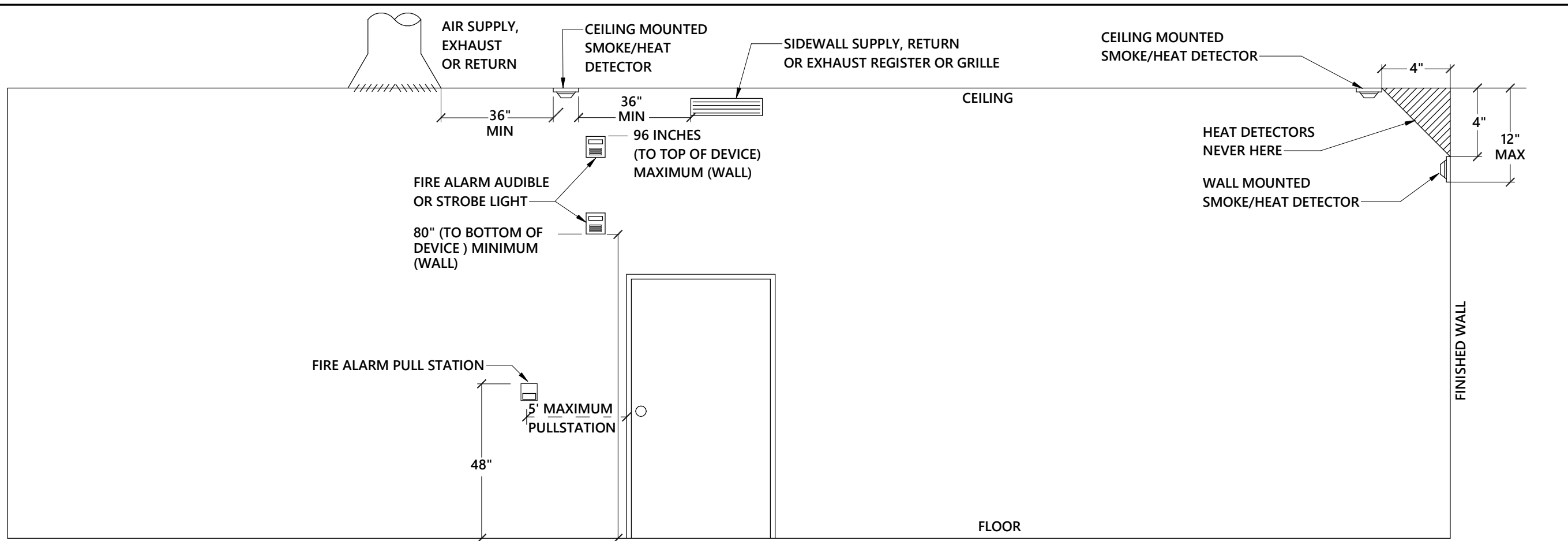
| | BUILDING SYSTEM OUTPUTS | | | | | | | | | | CENTRAL COMM |
|-----------------------------------|--|------------------------------|--|------------------------------------|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------|
| | ACTIVATE COMMON ALARM SIGNAL INDICATOR | ACTIVATE COMMON ALARM SIGNAL | ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR | ACTIVATE COMMON SUPERVISORY SIGNAL | ACTIVATE COMMON TROUBLE SIGNAL INDICATOR | ACTIVATE COMMON TROUBLE SIGNAL | ACTIVATE COMMON TROUBLE SIGNAL | ACTIVATE COMMON TROUBLE SIGNAL | ACTIVATE COMMON TROUBLE SIGNAL | ACTIVATE COMMON TROUBLE SIGNAL | |
| MANUAL FIRE ALARM PULL BOXES | X | X | | | | | | | | | |
| BUILDING SMOKE DETECTOR | X | X | | | | | | | | | |
| DUCT SMOKE DETECTOR | | | X | X | X | X | | | | | |
| SPRINKLER WATER FLOW | X | X | | | | | | | | | |
| SPRINKLER TAMPER | | | X | X | X | X | | | | | |
| 1ST FLOOR ELEV. LOBBY SMOKE DET. | X | X | | | | | | | | | |
| UPPER FLR. ELEV. LOBBY SMOKE DET. | X | X | | | | | | | | | |
| HOOD SUPPRESSION SYSTEM | X | X | | | | | | | | | |
| NOTIFICATION DEVICE SHORT CIRCUIT | | | X | X | X | X | | | | | |
| OPEN CIRCUIT | | | X | X | X | X | | | | | |
| GROUND FAULT | | | X | X | X | X | | | | | |
| FIRE ALARM A.C. POWER FAILURE | | | X | X | X | X | | | | | |
| FIRE ALARM SYSTEM LOW BATTERY | | | X | X | X | X | | | | | |
| BDA SYSTEM | | | X | X | X | X | | | | | |
| CARBON MONOXIDE DETECTORS | X | X | | | | | | | | | |

FIRE ALARM NOTES

- EXISTING FACP IS FULLY ANALOG ADDRESSABLE.
- EXISTING FACP HAS A MINIMUM 24HR. BATTERY BACKUP.
- EXISTING FACP IS CONNECTED TO A UL APPROVED CENTRAL STATION.
- ZONE PER NFPA 72, 2013 AND MANUFACTURER'S RECOMMENDATIONS WITH NO ONE ZONE EXCEEDING 15,000 S.F. PER FLOOR.
- COORDINATE QUANTITY AND LOCATIONS OF DEVICES WITH CONTRACT DRAWINGS.
- LOCATE SMOKE DETECTOR WITHIN 5' OF THE MAGNETIC HOLD OPEN DOORS, (TYPICAL)
- LOCATE FIRE ALARM PULL STATION WITHIN 5' OF THE EXIT DOOR.
- LOCATE SMOKE/HEAT DETECTOR WITHIN 5' OF THE FA EQUIPMENT (FACP, FATC).
- LOCATION OF CEILING MOUNTED SMOKE/HEAT DETECTOR SHALL BE FIELD COORDINATED PRIOR TO ROUGH IN. THE DETECTOR SHALL BE A MINIMUM OF 2' AWAY FROM LIGHT FIXTURE AND A MINIMUM OF 3' AWAY FROM AIR DISTRIBUTION DEVICES.
- AUTOMATIC DOOR CLOSING SHALL BE ACCOMPLISHED BY THE ACTIVATION OF THE LOCAL SMOKE DETECTORS AT THAT DOOR. SMOKE DETECTOR ACTIVATION SHALL ALERT THE BUILDING FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM SHALL CAUSE ALL HOLD OPEN DOORS TO CLOSE UPON ALARM ACTIVATION IN THE BUILDING.
- ACTIVATION OF AN ALARM ZONE SHALL CAUSE ALL AIR HANDLING EQUIPMENT TO SHUT DOWN (ALL DAMPERS, AIR HANDLERS AND EXHAUST FANS MUST STOP).
- ACTIVATION OF KITCHEN HOOD SUPPRESSION SYSTEM PROVIDES SIGNAL TO FACP WHICH IN TURN ACTIVATES ALL ANNUNCIATING ZONES & CUTS OFF AHU SUPPLY AIR.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL FLOW, PRESSURE, & TAMPER SWITCHES WITH FIRE PROTECTION CONTRACTOR PRIOR TO INSTALLATION.
- ALL VISUAL DEVICES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED. IT SHALL BE A THREE BEAT TEMPORAL PATTERN.
- ALL FIRE ALARM WIRING SHALL BE IN CONDUIT.
- PROVIDE MULTI-TEMPORAL SOUNDING CAPABILITY AT ALL AUDIO DEVICES FOR EMERGENCY NOTIFICATION FOR NON VOICE SYSTEMS COMPONENTS.
- THE FIRE ALARM SYSTEM MANUFACTURER SHALL PROVIDE NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER EXTENDERS AS REQUIRED.
- THE DUCT SMOKE DETECTORS SHALL COMPLY WITH IFC 907.12.
- THE CIRCUIT FEEDING THE FIRE ALARM PANEL IS DEDICATED FOR THE FIRE ALARM ONLY. BREAKER SHALL BE PROVIDED WITH A LABEL "FIRE ALARM CIRCUIT" AND SHALL BE RED.
- PROVIDE REMOTE LIGHT FOR DUCT SMOKE DETECTOR ON CEILING WHERE UNIT IS ABOVE CEILING.
- CONTRACTOR RESPONSIBLE FOR SHOP DRAWINGS AS REQUIRED BY LOCAL AHJ.
- DUCT DETECTORS SHALL BE VERIFIED WITH THE MECHANICAL DRAWINGS FOR QUANTITY AND LOCATION. TOTAL QUANTITY MINIMUM SHALL BE BASED ON BOTH MECHANICAL SCHEDULES AND MECHANICAL PLAN LOCATIONS AND ELECTRICAL PLANS. WHEN DEVICE QUANTITIES (ELECTRICAL VS. MECHANICAL) ARE IN CONFLICT, PROVIDE THE GREATER QUANTITY OF DETECTORS.

2 FIRE ALARM RISER DIAGRAM

NOT TO SCALE



- NOTES:
- LOCATIONS WHERE TV MOUNT IS BACK TO BACK ON SAME WALL, AN OFFSET OF 8-12" WILL BE NEEDED FOR INSTALLATION OF JACK/RECEPTACLE.
 - DEVICES ABOVE COUNTER TOPS SHALL BE A MAXIMUM OF 48" TO TOP OF DEVICE.
 - DEVICES NEXT TO DOOR EXIT SHALL BE WITHIN 8" (MAXIMUM) TYPICAL OF DOOR UNLESS OBSTACLES SUCH AS SIDELITES, ETC.
 - ALL DEVICES ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.

3 MOUNTING HEIGHTS OF DEVICES - ELEVATION

NOT TO SCALE

NFPA FIRE ALARM LEGEND

| SYMBOL | DESCRIPTION |
|----------|---|
| [FACP] | FIRE ALARM CONTROL PANEL |
| [FATC] | PRE-ACTION PANEL - PROVIDED BY SPRINKLER CONTRACTOR |
| [BDA] | BI-DIRECTIONAL AMPLIFIER SYSTEM |
| [AM] | ADDRESSABLE CONTROL MONITOR |
| [CD] | CO DETECTOR |
| [HDS] | HEAT DETECTOR/SENSOR, X=TYPE |
| [PUL] | PULLSTATION/FIRE ALARM |
| [SDS] | SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE) |
| [FADH] | FIRE ALARM DOOR HOLDER |
| [FACIM] | FIRE ALARM CEILING MOUNT INDICATOR |
| [R-DD] | RECTANGULAR DUCT SMOKE DAMPER, FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. |
| [DSD] | DUCT SMOKE DETECTOR (NFPA 72, SECTION 17.7.5.5) |
| [S] | FIRE ALARM SPEAKER, WHITE FINISH |
| [S-15CD] | ADA COMPLIANT WALL MOUNTED FIRE ALARM SPEAKER WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH.** |
| [S-15CD] | FIRE ALARM SPEAKER W/STROBE (CANDELAS), WHITE FINISH |

FIRE ALARM SHEET INDEX

| SHEET NUMBER | SHEET NAME |
|--------------|-----------------------------|
| FA-001 | FIRE ALARM LEGEND AND NOTES |
| FA-101 | ADDITION FIRE ALARM PLAN |
| FA-601 | FIRE ALARM DETAILS |

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Harnett County Schools
LILLINGTON-SHAWTOWN ELEMENTARY ADDITION

855 Old US Highway 421
Lillington, NC 27546



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ISSUE DATE: 07-26-24

PROJECT #: 02110.300

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FIRE ALARM

LEGEND AND NOTES

FA-001

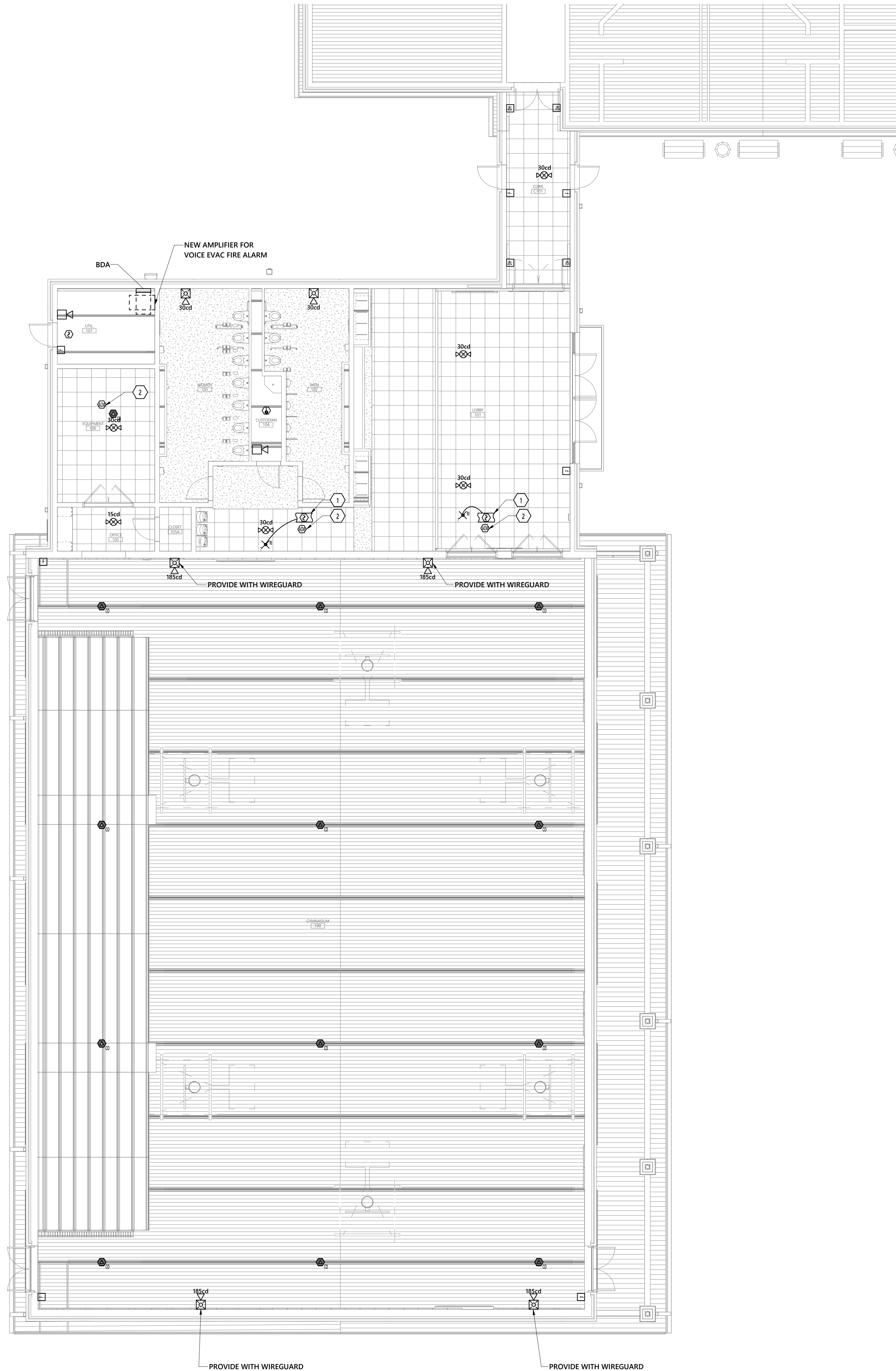
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1 ADDITION FIRE ALARM PLAN
1/8" = 1'-0"



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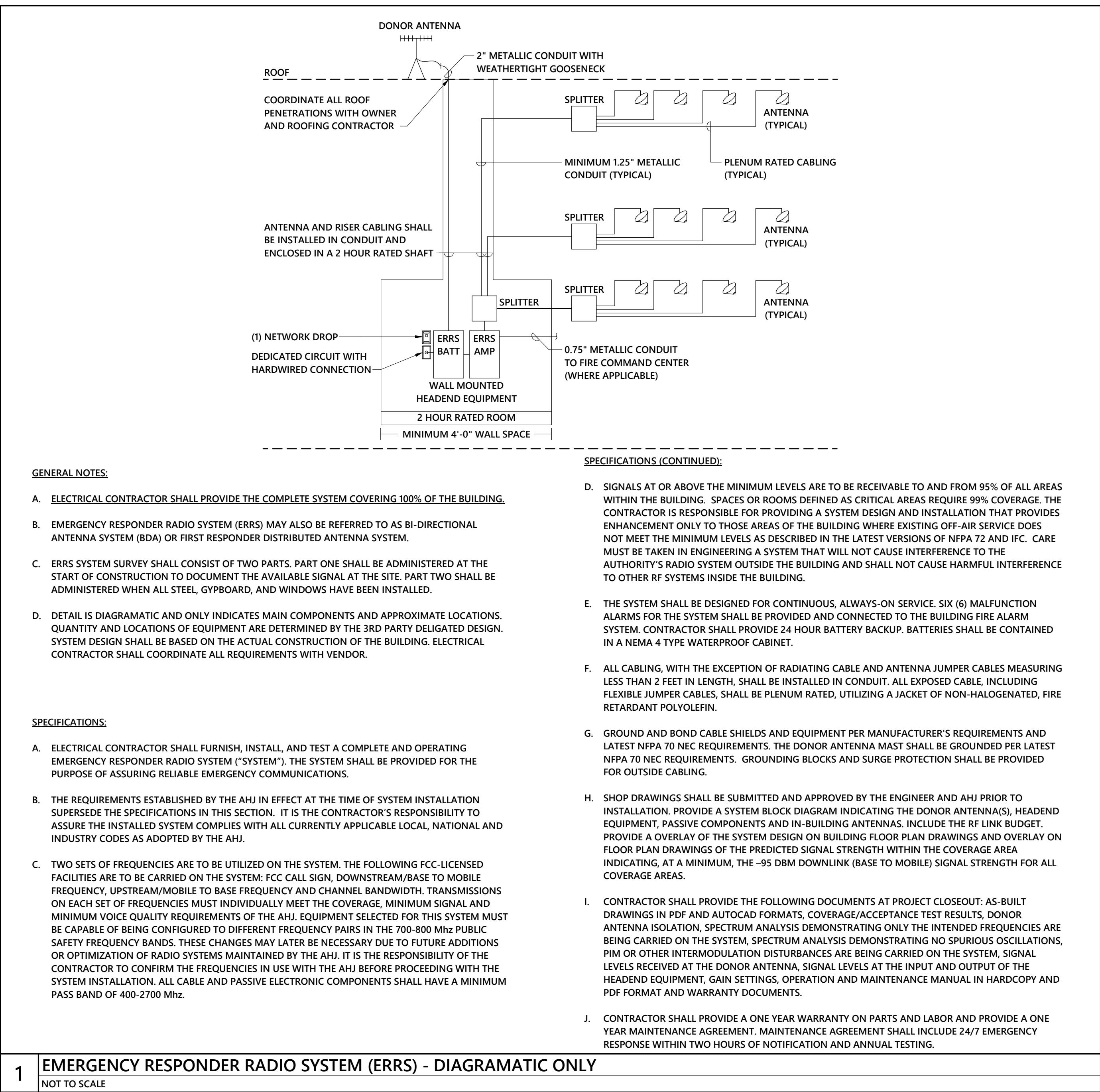
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FIRE ALARM
DETAILS

FA-601