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Addendum #1

Date: February 26, 2025

To: All Potential Bidders

From: Sanders Tate, MPS Architecture

Project Name: **MTC Airport Learning Resource Center Improvements**
Midlands Technical College

State Project No.: H59-6162-CB
MPS Project No.: 024096.00

The following clarifications, amendments, additions, deletions, revisions, and/or modifications are hereby made a part of the Contract Documents and change the original documents only in the manner and to the extent stated below.

Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This addendum consists of **3** pages plus the following attachments:

- AIA-101: Standard Form of Agreement Between Owner and Contractor .....1 Page
- SECTION 01 21 00 – SUMMARY.....1 Page
- SECTION 01 21 00 – ALLOWANCES.....3 Page
- SECTION 08 71 00 – DOOR HARDWARE.....1 Page
- SECTION 10 22 26 – OPERABLE WALL PARTITIONS.....1 Page
- Appendix B: Existing Fire Alarm System Drawings and O&Ms .....27 Pages

- DRAWING A031 – LEVEL 2 – DEMOLITION PLAN.....1 Sheet
- DRAWING A111 – LEVEL 2 – ANNOTATION PLAN.....1 Sheet
- DRAWING A410 – TOILET PLAN, ELEVATIONS & DETAIL.....1 Sheet
- DRAWING A420 – INTERIOR ELEVATIONS.....1 Sheet
- DRAWING A800 – DOOR SCHEDULE & DETAIL.....1 Sheet
- DRAWING E001 – ELECTRONIC NOTES, SYMBOLS AND ABBREVIATIONS.....1 Sheet
- DRAWING E101 – ELECTICAL NEW WORK POWER AND SPECIAL SYSTEMS PLAN.....1 Sheet
- DRAWING E500 – ELECTRICAL EXISTING ONE-LINE DIAGRAMS..... 1 Sheet
- DRAWING E600 – ELECTRICAL SCHEDULES.....1 Sheet

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Addendum #1

A. REVISIONS TO PROJECT MANUAL

1. AIA-101 – Standard Form of Agreement Between Owner and Contractor
    a. Section 4.3 Allowances:
        1)Exterior Sign allowance price to be: $4,000.00
        2)Door hardware allowance per leaf to be: $1,200.00
2. SECTION 01 21 00 – SUMMARY
    a. Section 1.4 Work Restrictions Note A. Non-Smoking Campus.
3. SECTION 01 21 00 – ALLOWANCES
    a. Section 1.1 Related Documents note B is removed.
    b. Section 3.3 Allowances: Updated to include Allowances 1 and 2.
4. SECTION 08 71 00 – DOOR HARDWARE
    a. Section 3.6: revise “TO BE ISSUED” to read “See Section 01-21-00 Allowances”
5. SECTION 10 22 26 – OPERABLE WALL PARTITIONS
    a. Section 2.3 Panel Construction Skin Options:
        i. STC Rating of 47.
6. Appendix B: Existing Fire Alarm System Drawings and O&Ms
    a. Installation and Maintenance Instructions
    b. Existing Fire Alarm Drawings
    c. Existing Fire Alarm Inspection Report
    d. Existing Fire Alarm System Record of Completion

B. REVISIONS TO DRAWINGS

1. DRAWING A031 – LEVEL 2 – DEMOLITION PLAN
    a. Replace with the revised Drawing A031 included herein. Drawing has been revised as follows:
        i. Detail 2/A031 EXTERIOR ELEVATION – NORTH DEMOLITION has been added to note the demolition of existing exterior signage.
2. DRAWING A111 – LEVEL 2 – ANNOTATION PLAN
    a. Replace with the revised Drawing A111 included herein. Drawing has been revised as follows:
        i. Annotation Plan Note 01: Security gates - provided and installed by owner.
        ii. 1/A111: Security gate to have one aisle 70” across, not two aisles. Provided and installed by owner.
3. DRAWING A410 – TOILET PLAN, ELEVATIONS & DETAIL:
    a. Replace with the revised Drawing A410 included herein. Drawing has been revised as follows:

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   i. Detail 6/410 removed. Sink will be wall hung without plastic laminate.

4. DRAWING A420 – INTERIOR ELEVATIONS
   a. Replace with the revised Drawing A420 included herein. Drawing has been revised as follows:
      i. Elevation 5/A420: Door 230A to be storefront with aluminum glass, not a wood door. See door schedule.
      ii. Elevation 1/A420: Callout note added to cast aluminum letters. SIM as detail C3/A116.
5. DRAWING A800 – DOOR SCHEDULE & DETAILS:
   a. Replace with the revised Drawing A800 included herein. Drawing has been revised as follows:
   b. Door schedule - Door 230A:
      i. Door to be Interior storefront, glass with aluminum frame as shown on door schedule
   c. Door Schedule - Door 230B:
      i. Frame to be P03 as shown on door schedule.
6. DRAWING E001 – ELECTRONIC NOTES, SYMBOLS AND ABBREVIATIONS
   a. Replace with the revised Drawing E001 included herein. Drawing has been revised as follows:
      i. Updated as shown.
7. DRAWING E101 – ELECTICAL NEW WORK POWER AND SPECIAL SYSTEMS PLAN
   a. Replace with the revised Drawing E101 included herein. Drawing has been revised as follows:
      i. Relocating the power for security gates.
8. DRAWING E500 – ELECTRICAL EXISTING ONE-LINE DIAGRAMS
   a. Replace with the revised Drawing E500 included herein. Drawing has been revised as follows:
      i. One line diagram as shown.
9. DRAWING E600 – ELECTRICAL SCHEDULES
   a. Replace with the revised Drawing E600 included herein. Drawing has been revised as follows:
      i. Drawing notes as shown.

END OF ADDENDUM #1

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum, including all accepted alternates indicated in the bid documents, in current funds for the Contractor's performance of the Contract. The Contract Sum shall be

($), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 Alternates

§ 4.2.1 Alternates that are accepted, if any, included in the Contract Sum:
(Insert the accepted Alternates.)

Item	Price

§ 4.3 Allowances, if any, included in the Contract Sum:
(Identify each allowance.)

Item	Price
1. Exterior Sign	$4,000.00
2. Door Hardware Material Per Leaf	$1,200.00

§ 4.4 Unit prices, if any:
(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit ($0.00)

§ 4.5 Liquidated damages

§ 4.5.1 Contractor agrees that from the compensation to be paid, the Owner shall retain as liquidated damages the amount indicated in Section 9(b) of the Bid Form for each calendar day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted time for Substantial Completion as provided in the Contract Documents. The liquidated damages amount is intended by the parties as the predetermined measure of compensation for actual damages, not as a penalty.

§ 4.6 Other:
(Insert provisions for bonus or other incentives, if any, that might result in a change to the Contract Sum.)

D. Architect's Consultants: The Architect has retained the following design professionals who have prepared designated portions of the Contract Documents:

1. Mechanical/Plumbing/Electrical/Fire Protection Engineering:
RMF Engineering, Inc.; Charleston, SC

2. Structural Engineering:
Mabry Engineering, Inc.; West Columbia, SC

3. Cost Estimate:
Palacio Collaborative; Atlanta, GA

E. The Work of Project is defined by the Contract Documents and consists of Interior Renovations to create new Offices, Conference Room, Collaboration Areas and Classroom at the MTC Airport Campus Learning and Resource Center.

F. Work includes but is not limited to:

a. Demolition of existing walls, fixtures, and finishes at various locations.
b. Installation of new interior finishes, walls, demountable partitions, and doors.
c. Construction of a small addition.
d. Installation of new ductwork and air devices.
e. Installation of new electrical fixtures and lighting.

1.3 ACCESS TO SITE

A. Building will be occupied and remain in operation during construction. Areas of construction are within Learning Resource Center and adjacent exterior balcony.

B. Use of Site: Limit use of Project site to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Limits: Confine construction operations to limits of work to areas of renovation shown on the construction offices.
2. Driveways, Walkways and Entrances: Keep driveways and entrances serving premises clear and available to Building Occupants, Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.

1.4 WORK RESTRICTIONS

A. Non Smoking Campus: Midlands Technical College is a smoke, vape, and tobacco-free college.

B. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

C. Employee Identification: Provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.

SECTION 01 21 00 – ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements governing allowances

1. Exterior sign specified in the Contract Documents A300 by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

B. Types of allowances include the following:
   1. Lump Sum allowances

1.3 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
C. C. Purchase products and systems selected by Architect from the designated supplier.

c. Submit substantiation of a change in scope of work, if any, claimed in Change Orders related to unit-cost allowances.

d. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.

B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.

a. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.

b. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SUM OF ALLOWANCES

A. Allowances:
Refer to AIA-101 Standard Form of Agreement Between Owner and Contractor:
Section 4.3 Allowances:
a. Allowance No. 1) Exterior Sign: $4,000.00
b. Allowance No. 1) Door Hardware Per Leaf: $1,200.00

END OF SECTION 01 21 00

B. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.5 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.6 DOOR HARDWARE SCHEDULE

See section 01 21 00 ALLOWANCES

END OF SECTION 08 71 00

2.3 PANEL CONSTRUCTION

A. Nominal 3-inch (76mm) thick panels in manufacturer's standard 48-inch (1220mm) widths. All panel horizontal and vertical framing members fabricated from minimum 18-gage formed steel with overlapped and welded corners for rigidity. Top channel is reinforced to support suspension system components. Frame is designed so that full vertical edges of panels are of formed steel and provide concealed protection of the edges of the panel skin.

B. Panel Skin Options

1. 1/2-inch (13mm) tackable 100% recycled gypsum board, class "A" rated single material or composite layers continuously bonded to panel frame. Acoustical ratings of panels with this construction 47 STC

C. Hinges for Closure Panels, Pass Doors, and Pocket Doors shall be:

1. Full leaf butt hinges, attached directly to panel frame with welded hinge anchor plates within panel to further support hinge mounting to frame. Lifetime warranty on hinges. Hinges mounted into panel edge or vertical astragal are not acceptable.

D. Panel Trim: No vertical trim required or allowed on edges of panels; minimal groove appearance at panel joints.

E. Panel Weights:

1. 28 STC - 6 lbs./square foot
2. 47 STC - 7 lbs./square foot
3. 50 STC - 8 lbs./square foot

2.4 PANEL FINISH

A. Panel face finish shall be (select as required):

1. Reinforced vinyl with woven backing weighing not less than 20 ounces (567 g) per lineal yard.
2. Reinforced heavy-duty vinyl with woven backing weighing not less than 30 ounces (850 g) per lineal yard.
3. Acoustical, non-woven needle punch carpet, with fused fibers to prevent unraveling or fray of material.
4. Wall covering and upholstery fabric with surface treatment to resist stains.
5. Customer's own material (subject to factory approval).
6. Full height steel markerboard work surface.
7. Full height 1/4-inch (6.35 mm) natural cork tackboard with vinyl or fabric covering.

NOTIFIER by Honeywell

12 Clintonville Road
Northford, CT 06472-1653
Phone: 203.484.7161

XP6-R Six Relay Control Module

SPECIFICATIONS

Normal Operating Voltage:	15-32VDC
Stand-By Current:	1.90 mA @ 24V
Alarm Current:	32 mA (assumes all six relays have been switched once and all six LEDs solid on)
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10 to 93% Non-condensing
Dimensions:	6.8"H × 5.8"W × 1.0"D
Accessories:	CHS-6 Chassis; BB-25 Cabinet; BB-XP Cabinet; CAB-3 Series Cabinets; CAB-4 Series Cabinets
Wire Gauge:	12-18 AWG
Relay Current:	30 mA/Relay Pulse (15.6 mS pulse duration) pulse under panel control

RELAY CONTACT RATINGS:

CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION	APPLICATION
2 A	25 VAC	PF = 0.35	Non-coded
3 A	30 VDC	Resistive	Non-coded
2 A	30 VDC	Resistive	Coded
0.46 A	30 VDC	(L/R = 20ms)	Non-coded
0.7 A	70.7 VAC	PF = 0.35	Non-coded
0.9 A	125 VDC	Resistive	Non-coded
0.5 A	125 VAC	PF = 0.75	Non-coded
0.3 A	125 VAC	PF = 0.35	Non-coded

⚠WARNING

All relay switch contacts are shipped in the standby state (open) state, but may have transferred to the activated (closed) state during shipping. To ensure that the switch contacts are in their correct state, modules must be made to communicate with the panel before connecting circuits controlled by the module.

BEFORE INSTALLING

If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect the power to the control panel before installing the modules. This system contains static sensitive components. Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. The housing cabinet should be metallic and suitably grounded.

NOTICE: This manual should be left with the owner/user of this equipment.

GENERAL DESCRIPTION

The XP6-R Six Relay Control Module is intended for use in an intelligent alarm system. Each module is intended for Form-C switching applications, which do not require wiring supervision for the load circuit. A single isolated set of dry relay contacts is provided for each module, which is capable of being wired for either normally open or normally closed for each operation. Each module has its own address. A pair of rotary code switches is used to set the address of the first module from 01 to 154. The remaining modules are automatically assigned to the next five higher addresses. Provisions are included for disabling a maximum of three unused modules to release the addresses to be used elsewhere. Each XP6-R module also has panel controlled green LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

CONTENTS INCLUDE:

(6) 1 × 3 Terminal Blocks
(1) 1 × 4 Terminal Blocks
(2) 11/4" (32mm) Stand offs
(4) Machine Screws
(2) Nuts
(1) Shunt (NOTE: For the disable position, not more than one shunt shall be installed at the same time)

COMPATIBILITY REQUIREMENTS

To ensure proper operation, this module shall be connected to a compatible Notifier system control panel.

COMPONENTS

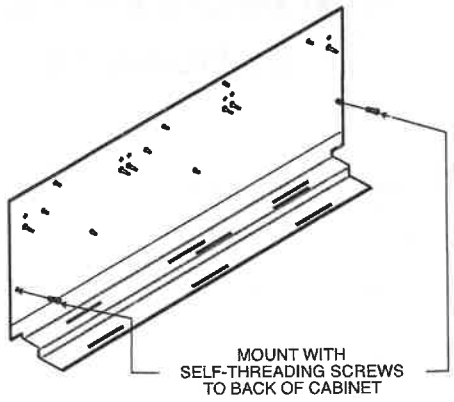
Following are descriptions of the XP6-R mounting frameworks. There are two mounting options for XP6-R modules:

- Up to six XP6-R modules can be installed on a CHS-6 in a CAB-3, CAB-4 or BB-25 cabinet
- One or two XP6-R modules can be installed in a BB-XP cabinet

Chassis

The CHS-6 chassis is used to mount XP6-R modules in a BB-25, CAB-3 or CAB-4 Series cabinet. It accommodates up to six XP6-R modules in a single cabinet row three modules wide and two modules deep.

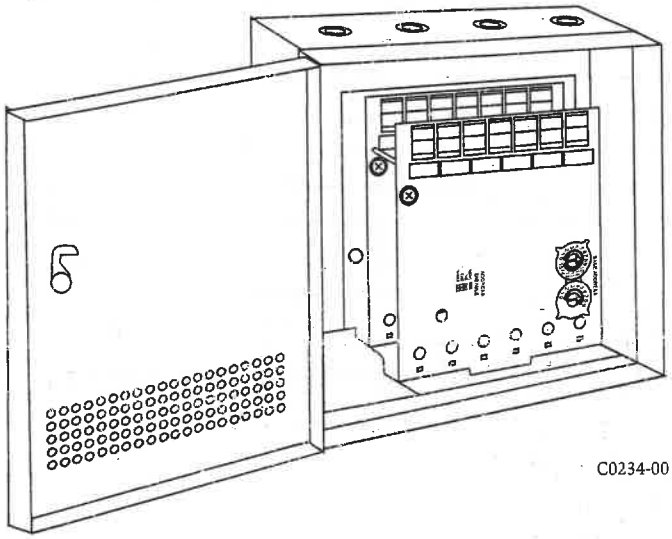
FIGURE 1. CHS-6 CHASSIS:



C0236-01

The BB-XP cabinet has a built-in chassis that will accommodate one or two XP6-R modules.

FIGURE 2. BB-XP CABINET:



C0234-00

The front XP6-R module positions of each chassis are offset below the rear XP6-R module positions so that all of the status indicators are visible.

Cabinets

A BB-25, CAB-3 or CAB-4 Series cabinet will house the CHS-6 chassis with up to six XP6-R modules installed on it. Refer to cabinet installation documents for dimensions.

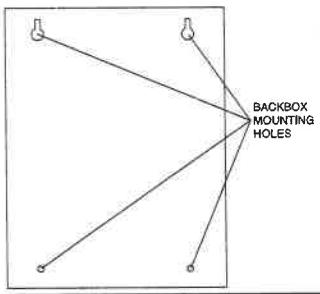
The BB-XP cabinet houses one or two XP6-R modules on the internal chassis that is part of the cabinet. Refer to cabinet installation documents for dimensions.

INSTALLATION STEPS

1. Cabinet Mounting

In a clean, dry area, mount the backbox using the four holes provided in the back surface of the cabinet.

FIGURE 3. TYPICAL MOUNTING HOLE LOCATIONS:

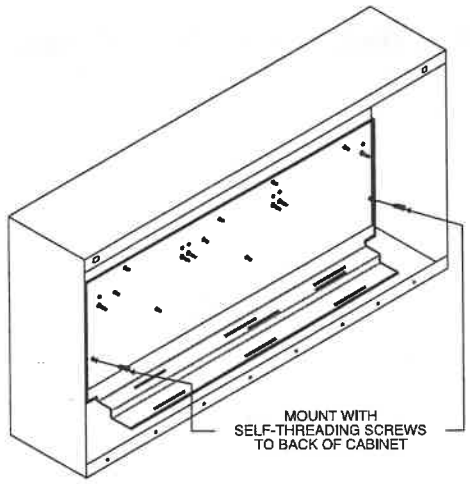


C0235-00

2. Chassis Installation

The CHS-6 chassis is mounted in the BB-25, CAB-3 or CAB-4 Series cabinets. It is shipped with two self-threading screws, which are used to fasten the chassis to the back wall of the cabinet (see Figure 4).

FIGURE 4: MOUNTING THE CHS-6 CHASSIS



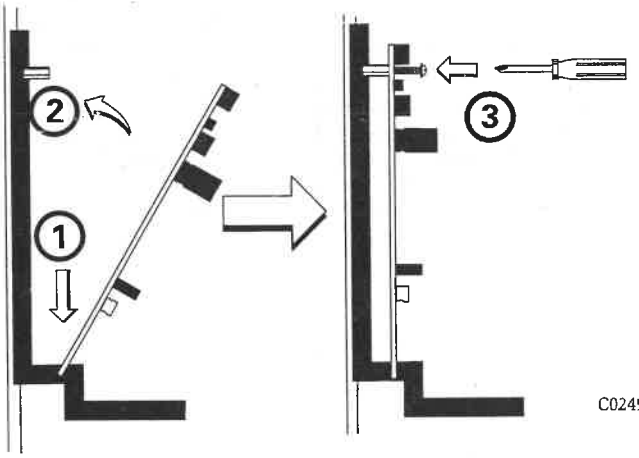
C0236-00

The BB-XP cabinet comes with the chassis already installed, so no mounting is necessary.

3. Module Installation

There are two methods for installing a module in the rear position of a chassis. Method one is for installation of a rear module only, when no module will be installed in front of it. Refer to Figure 5 for instructions. Method two is for installation of a rear module when another module will be installed in the chassis position in front of it. Refer to Figures 6a and 6b for method two. All necessary screws and standoffs are supplied with the modules.

FIGURE 5. INSTALLATION OF REAR MODULE ONLY, METHOD ONE:



C0249-00

Step 1: Insert the bottom of the XP6-R module down into a rear slot on the chassis.

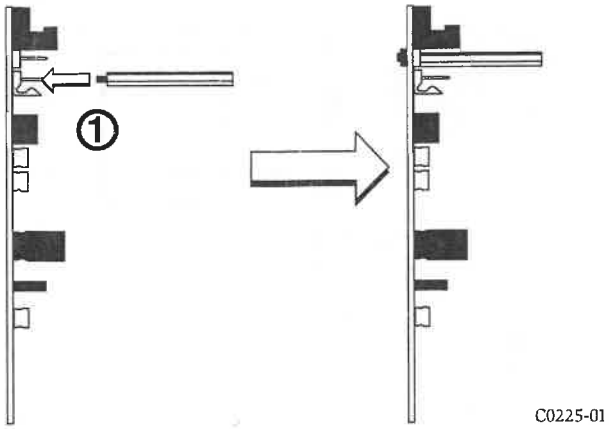
Step 2: Carefully swing the upper edge of the board back towards the back of the chassis until it touches the two standoffs.

Step 3: Align two 4-40 screws with the two standoffs and tighten.

Step 4: Address and wire the modules according to the instructions in this manual.

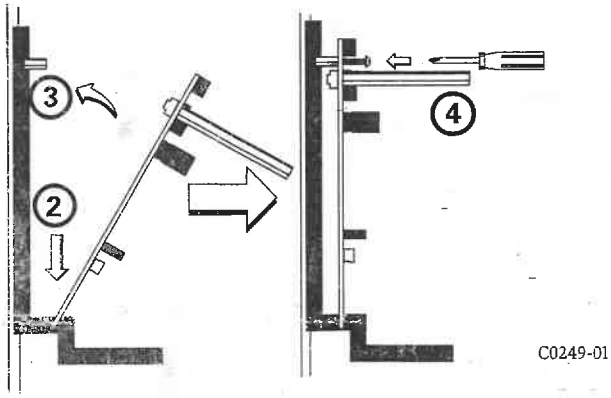
The steps in Figures 6A – 6C describe and illustrate module installation when the rear chassis position and the position in front of it will be filled. Front position installation is possible only if the rear position is filled with an XP module.

FIGURE 6A. INSTALLATION OF XP6-R MODULE IN A REAR CHASSIS POSITION, METHOD TWO:



Step 1: Install two long standoffs in the lower mounting holes using two 4-40 nuts as shown.

FIGURE 6B.



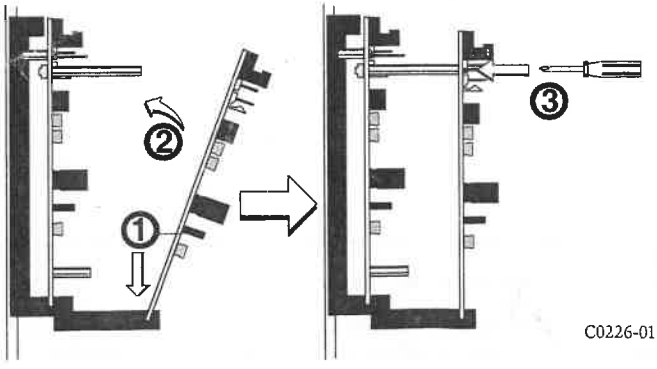
Step 2: Insert the bottom of the XP6-R module down into a rear slot on the chassis.

Step 3: Carefully swing the upper edge of the board back towards the back of the chassis until it touches the two standoffs on the board.

Step 4: Align two 4-40 screws with the two standoffs on the chassis and tighten.

Step 5: Address and wire the modules according to the instructions in this manual.

FIGURE 6C. INSTALLATION OF XP6-R MODULE IN FRONT CHASSIS POSITION:



Step 1: Insert the bottom edge of the XP6-R module down into a front slot of the chassis.

Step 2: Carefully swing the upper edge of the board towards the back of the chassis until it touches the 11/4" (31.75mm) standoffs installed on the rear module.

Step 3: Align two 4-40 screws with the two standoffs and tighten.

Step 4: Address and wire the modules according to the instructions in this manual.

WIRING

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations.

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.
2. Make electrical connections by stripping approximately ¼" (6.35mm) of insulation from the end of the wire sliding the bare end of the wire under the clamping plate, and tightening the clamping plate screw.
3. Set the address on the modules per the job drawing. Use the rotary code switches to set the address of the first module (between 01 and 154). The remaining modules are automatically assigned to the next five higher addresses. For example, if the base address switch is set to 28, the next five modules will be addressed to 29, 30, 31, 32, and 33. DO NOT set the lowest address above 154, as the other modules will be assigned to nonexistent addresses.

NOTE: Some panels support extended addressing. In order to set the module above address 99 on compatible systems, carefully remove the stop on the upper rotary switch. If the panel does not support extended addressing, do not set the lowest addressabove 94.

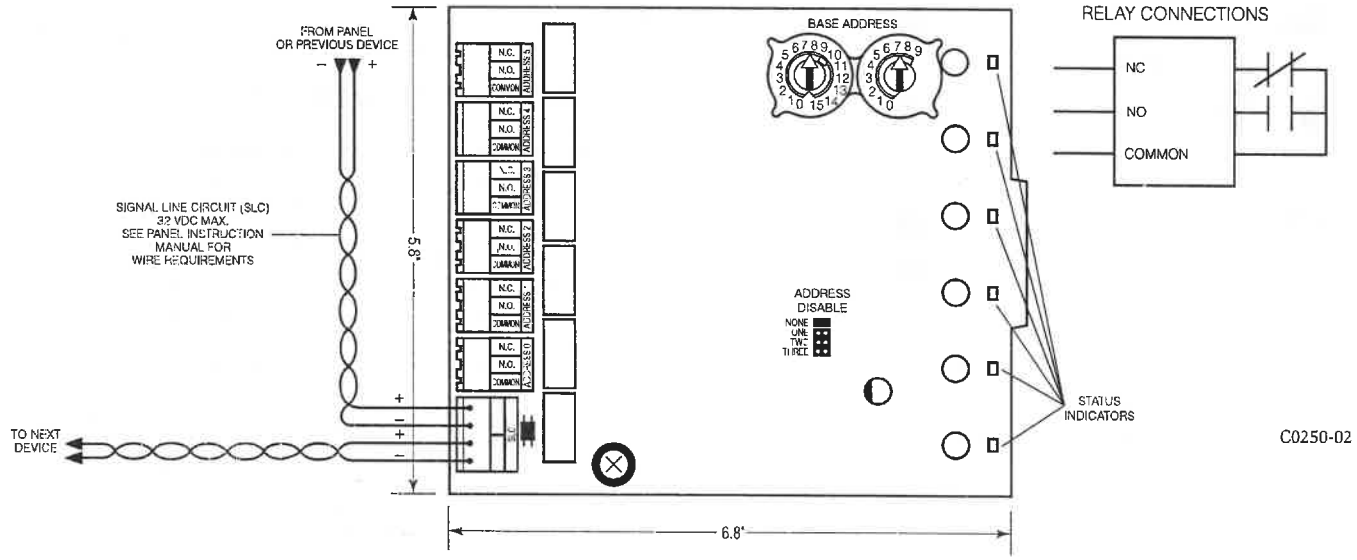
4. A shunt is provided to disable a maximum of three unused modules. Modules are disabled from the highest address and work downward. If two modules are disabled, the lowest four addresses will be functional, while the highest two will be disabled. For example, if the shunt for Address Disable is placed on "two" and the base address switch is set to 28, the modules will be assigned to 28, 29, 30 and 31.

NOTE: Power must not be applied to the unit when changing functionality of the shunts.

NOTE: The XP6-R must have power cycled for shunt changes to take effect.

NOTE: All references to power limited represent "Power Limited (Class 2)".

FIGURE 7. WIRING AND PROGRAMMING THE XP6-R MODULE:



NOTES:

- The relay contacts on the XP6-R may be connected to either a power-limited or non power-limited source, this wiring must remain separated by at least 1/4" (6.35 mm) from all power-limited wiring.
- Power-limited circuits must employ type FPL, FPLR, or FPLP cable as required by Article 760 of the NEC.
- For easier wiring, assign all power-limited wiring to one side rather than alternating with non power-limited.

PROGRAMMING

The XP6-R module operates with the following Fire Alarm Control Panels:

- AM2020/AFP1010
- AFP-200
- AFP-300/AFP-400
- System 5000 with AIM-200
- AFC-600
- NFS-640
- NFS-3030

The modules are programmed as FRM-1 modules in each system according to the programming instructions in the appropriate FACP manual.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTIFIER by Honeywell

12 Clintonville Road
Northford, CT 06472-1653
Phone: 203.484.7161

XP6-MA Six Zone Interface Module

SPECIFICATIONS

Normal Operating Voltage:	15-32VDC
Stand-By Current:	2 mA
Alarm Current:	40 mA (assumes all six LEDs solid on)
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10 to 93% Non-condensing
Dimensions:	6.8″H x 5.8″W x 1.0″D
Accessories:	CHS-6 Chassis; BB-25 Cabinet; BB-XP Cabinet; CAB-4 Series Cabinets; CAB-3 Series Cabinets
Wire Gauge:	12-18 AWG
Maximum IDC Wiring Resistance:	25 Ohms
External Power Supply Voltage:	Regulated 24VDC
Ripple Voltage:	0.1 volts RMS maximum
IDC (supervised and power limited)	
	DC Voltage: 18-28 volts power limited
Frequency:	DC
Current:	90mA per circuit

BEFORE INSTALLING

If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect the power to the control panel before installing the modules. This system contains static sensitive components. Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. The module housing should also be grounded.

NOTICE: This manual should be left with the owner/user of this equipment.

GENERAL DESCRIPTION

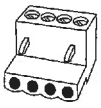
The XP6-MA Six Zone Interface Module is intended for use in an intelligent alarm system. Each module provides an interface between the intelligent alarm system and a conventional alarm system loop. A common SLC input is used for all modules, and the initiating device loops share a common supervisory supply and ground. Otherwise, each monitor operates independently from the others. Each module has its own unique address.

A pair of rotary code switches is used to set the address of the first module from 01 to 154. The remaining modules are automatically assigned to the next five higher addresses. Provisions are included for disabling a maximum of two unused modules to release the addresses to be used elsewhere. Each module also has panel controlled bicolor LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

A list of compatible two-wire System Sensor Smoke detectors for use with the XP6-MA is available on the System Sensor website at www.systemsensor.com.

Included:

(5) 1 x 4 Terminal Blocks



(2) 1¼" Stand offs

(3) Shunts

(4) Machine Screws

(2) Nuts

(6) 3.9k Ohm End of Line Resistors

(1) Long Power Supply Jumper

Shipped on Board:

(2) Shunts in Class A/B position

(Shipped in Class B position, remove shunts for Class A)

COMPATIBILITY REQUIREMENTS

To ensure proper operation, this module shall be connected to a compatible Notifier system control panel (list available from Notifier).

COMPONENTS

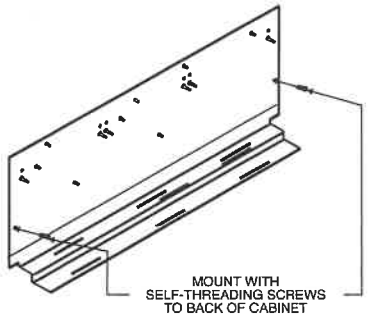
Following are descriptions of the XP6-MA mounting frameworks. There are two mounting options for XP6-MA modules:

- Up to six XP6-MA modules can be installed on a CHS-6 in a CAB-3 Series, CAB-4 Series or BB-25 cabinet
- One or two XP6-MA modules can be installed in a BB-XP cabinet

Chassis

The CHS-6 chassis is used to mount XP6-MA modules in a BB-25, CAB-3 or CAB-4 Series cabinet. It accommodates up to six XP6-MA modules in a single cabinet row three modules wide and two modules deep.

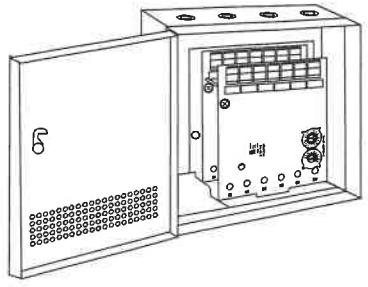
FIGURE 1. CHS-6 CHASSIS:



C0236-01

The BB-XP cabinet has a built-in chassis that will accommodate one or two XP6-MA modules.

FIGURE 2. BB-XP CABINET:



C0234-00

The front XP6-MA module positions of each chassis are offset below the rear XP6-MA module positions so that all of the status indicators are visible.

Cabinets

A BB-25, CAB-3 or CAB-4 Series cabinet will house the CHS-6 chassis with up to six XP6-MA modules installed on it. Refer to cabinet installation documents for dimensions.

The BB-XP cabinet houses one or two XP6-MA modules on the internal chassis that is part of the cabinet. Refer to cabinet installation documents for dimensions.

INSTALLATION STEPS

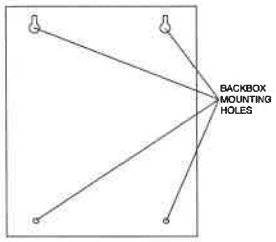
1. Cabinet Mounting

In a clean, dry area, mount the backbox using the four holes provided in the back surface of the cabinet (Figure 3).

2. Chassis Installation

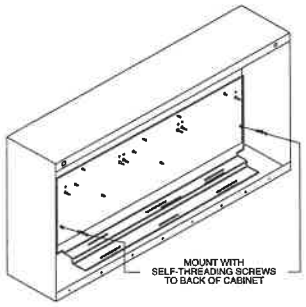
The CHS-6 chassis is mounted in the BB-25, CAB-3 or CAB-4 Series cabinet. It is shipped with two self-threading screws, which are used to fasten the chassis to the back wall of the cabinet (Figure 4).

FIGURE 3. TYPICAL MOUNTING HOLE LOCATIONS:



C0235-00

FIGURE 4: MOUNTING THE CHS-6 CHASSIS



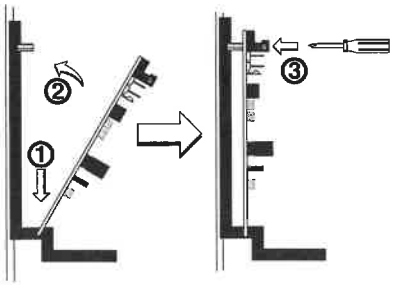
C0236-00

The BB-XP cabinet comes with the chassis already installed, so no mounting is necessary.

3. Module Installation

There are two methods for installing a module in the rear position of a chassis. Method one is for installation of a rear module only, when no module will be installed in front of it. Refer to Figure 5 for instructions. Method two is for installation of a rear module when another module will be installed in the chassis position in front of it. Refer to Figures 6a and 6b for method two. All necessary screws and standoffs are supplied with the modules.

FIGURE 5. INSTALLATION OF REAR MODULE ONLY, METHOD ONE:



C0237-00

Step 1: Insert the bottom of the XP6-MA module down into a rear slot on the chassis.

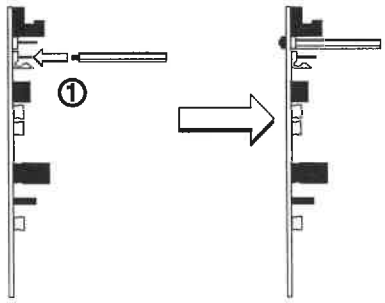
Step 2: Carefully swing the upper edge of the board back towards the back of the chassis until it touches the two standoffs.

Step 3: Align two 4-40 screws with the two standoffs and tighten.

Step 4: Address and wire the modules according to the instructions in this manual.

The steps in Figures 6A – 6C describe and illustrate module installation when the rear chassis position and the position in front of it will be filled. Front position installation is possible only if the rear position is filled with an XP module.

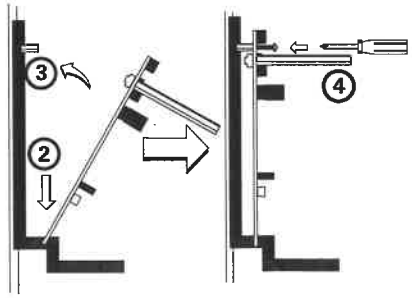
FIGURE 6A. INSTALLATION OF XP6-MA MODULE IN A REAR CHASSIS POSITION, METHOD TWO:



C0225-01

Step 1: Install two long standoffs in the lower mounting holes using two 4-40 nuts as shown.

FIGURE 6B.



C0249-01

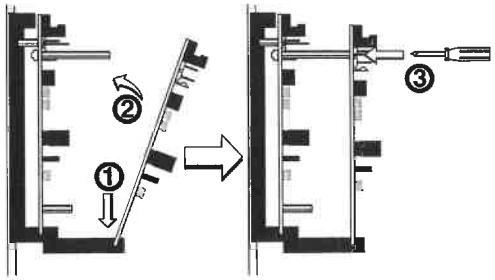
Step 2: Insert the bottom of the XP6-MA module down into a rear slot on the chassis.

Step 3: Carefully swing the upper edge of the board back towards the back of the chassis until it touches the two standoffs on the board.

Step 4: Align two 4-40 screws with the two standoffs on the chassis and tighten.

Step 5: Address and wire the modules according to the instructions in this manual.

FIGURE 6C. INSTALLATION OF XP6-MA MODULE IN FRONT CHASSIS POSITION:



C0226-01

Step 1: Insert the bottom edge of the XP6-MA module down into a front slot of the chassis.

Step 2: Carefully swing the upper edge of the board towards the back of the chassis until it touches the 1¼" (31.75mm) standoffs installed on the rear module.

Step 3: Align two 4-40 screws with the two standoffs and tighten.

Step 4: Address and wire the modules according to the instructions in this manual.

WIRING

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations.

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.

2. All wiring to the XP6-MA is done via terminal blocks. In order to properly make electrical connections strip approximately ¼" of insulation from the end of wire, sliding the bare end of the wire under the clamping plate screw.
3. Set the address on the modules per the job drawing. Use the rotary code switches to set the address of the first module (between 01 and 154).

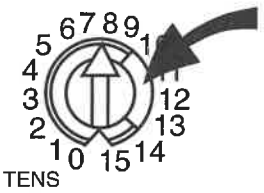
In Class B operation, the remaining modules are automatically assigned to the next five higher addresses. For example, if the base address switch is set to 28, the next five modules will be addressed to 29, 30, 31, 32 and 33.

The module is shipped in Class B position, remove shunts for Class A. When operating in Class A, alternate modules are paired together (+0/+1, +2/+3, +4/+5), resulting in a total of three modules. For example, if the base address switch is set to 28, then 30 and 32 will be automatically assigned to the modules while 29, 31 and 33 are available to be used for other modules on the SLC. For Class A and B operation, DO NOT set the lowest address above 154, as the other modules will be assigned to nonexistent addresses.

NOTE: The XP6-MA must have power cycled for shunt changes to take effect.
NOTE: Some panels support extended addressing. In order to set the module above address 99 on compatible systems, carefully remove the stop on the upper rotary switch (see Figure 7). If the panel does not support extended addressing, do not set the lowest address above 94.

4. A shunt is provided to disable a maximum of two unused modules in Class B operation and Class A operation. Modules are disabled from the highest address and work downward. If two modules are disabled, the lowest four addresses will be functional, while the highest two will be disabled. For example, in Class B operation, if the shunt for Address Disable is placed on "two" and the base switch is set to 28, the modules will be assigned to 28, 29, 30 and 31 while disabling the highest two positions.

FIGURE 7.



C0227-00

NOTE: Place unused shunts on single pin to store on board for future use.
NOTE: Power must not be applied to the unit when changing functionality on the shunts.

WIRING NOTES

- Power-limited circuits must employ type FPL, FPLR, or FPLP cable as required by Article 760 of the NEC.
- All wiring must be in accordance with the NEC, NFPA 72 and all other applicable codes and standards. All external power supplies must be power limited with battery back-up. All external power supplies and detectors must be UL listed for fire protection signaling applications.

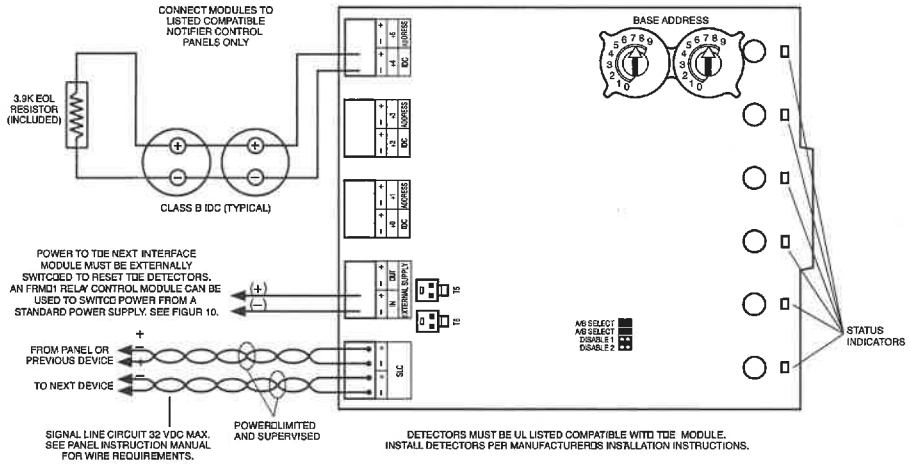
PROGRAMMING

The XP6-MA module operates with the following Fire Alarm Control Panels:

- AM2020/AFP1010
- AFP-200
- AFP-300/AFP-400
- NFS-3030
- System 5000 with AIM-200
- AFC-600
- NFS-640 (ONYX™ Series System)

The modules are programmed as devices in each system according to the programming instructions in the appropriate FACP manual.

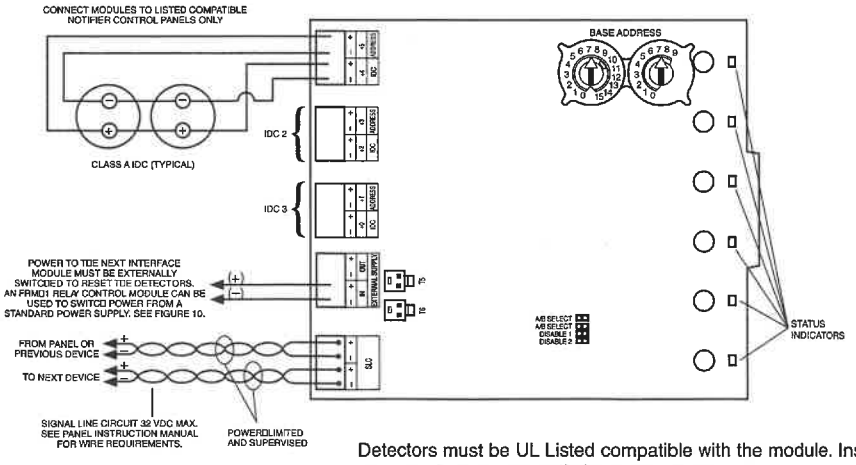
FIGURE 8. INTERFACE TWO-WIRE CONVENTIONAL DETECTORS – CLASS B, STYLE B:



C0154-02

1. To use a common power supply between multiple XP6-MA modules, connect a long power supply jumper from T5 or T6 to T5 or T6 on the adjacent XP6-MA module.

FIGURE 9. INTERFACE TWO-WIRE CONVENTIONAL DETECTORS – CLASS A, STYLE D:

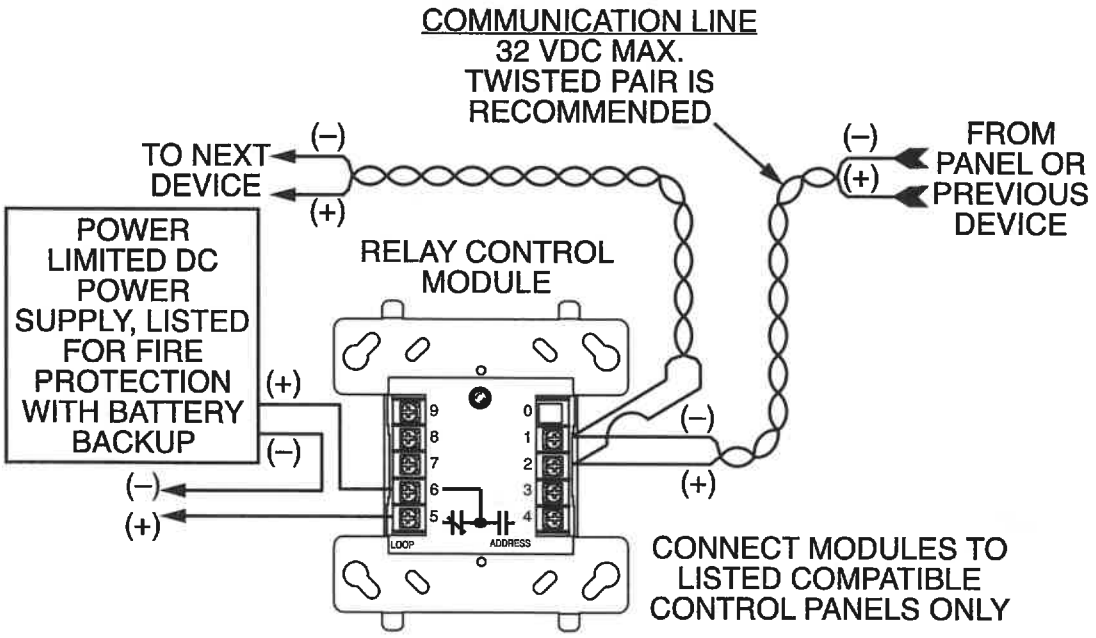


C0160-01

1. To select Class A, remove the two shunts from the "A/B select" positions.
2. To use a common power supply between multiple XP6-MA modules, connect a long power supply jumper from T5 or T6 to T5 or T6 on the adjacent XP6-MA module.

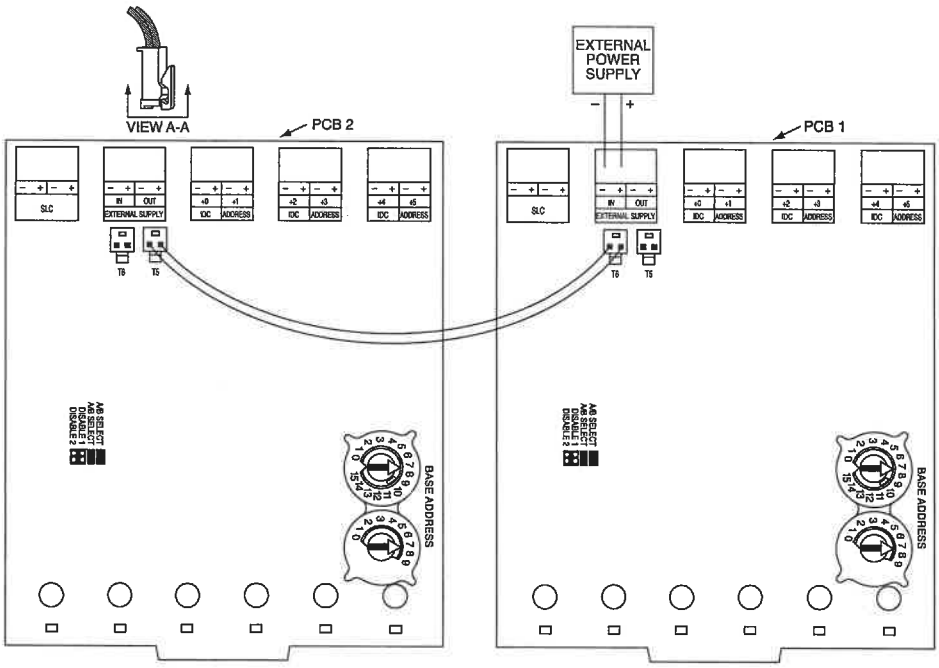
Detectors must be UL Listed compatible with the module. Install detectors per manufacturer's installation instructions.

FIGURE 10. RELAY CONTROL MODULE USED TO DISCONNECT A POWER SUPPLY:



C0248-00

FIGURE 11. EXAMPLE OF MULTIPLE BOARDS SHARING SAME EXTERNAL SUPPLY. REFER TO FIGURES 8 AND 9 FOR TYPICAL WIRING. MAKE CERTAIN LIP ON LONG POWER SUPPLY JUMPER ENGAGES RETAINING TAB ON T5 OR T6 AS SHOWN IN VIEW A-A:



C0142-00

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTIFIER by Honeywell

12 Clintonville Road
Northford, CT 06472-1653
Phone: 203.484.7161

XP6-MA Six Zone Interface Module

SPECIFICATIONS

Normal Operating Voltage:	15-32VDC
Stand-By Current:	2 mA
Alarm Current:	40 mA (assumes all six LEDs solid on)
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10 to 93% Non-condensing
Dimensions:	6.8"H x 5.8"W x 1.0"D
Accessories:	CHS-6 Chassis; BB-25 Cabinet; BB-XP Cabinet; CAB-4 Series Cabinets; CAB-3 Series Cabinets
Wire Gauge:	12-18 AWG
Maximum IDC Wiring Resistance:	25 Ohms
External Power Supply Voltage:	Regulated 24VDC
Ripple Voltage:	0.1 volts RMS maximum
IDC (supervised and power limited)	DC Voltage: 18-28 volts power limited
Frequency:	DC
Current:	90mA per circuit

BEFORE INSTALLING

If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect the power to the control panel before installing the modules. This system contains static sensitive components. Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. The module housing should also be grounded.

NOTICE: This manual should be left with the owner/user of this equipment.

GENERAL DESCRIPTION

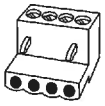
The XP6-MA Six Zone Interface Module is intended for use in an intelligent alarm system. Each module provides an interface between the intelligent alarm system and a conventional alarm system loop. A common SLC input is used for all modules, and the initiating device loops share a common supervisory supply and ground. Otherwise, each monitor operates independently from the others. Each module has its own unique address.

A pair of rotary code switches is used to set the address of the first module from 01 to 154. The remaining modules are automatically assigned to the next five higher addresses. Provisions are included for disabling a maximum of two unused modules to release the addresses to be used elsewhere. Each module also has panel controlled bicolor LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

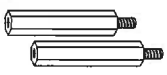
A list of compatible two-wire System Sensor Smoke detectors for use with the XP6-MA is available on the System Sensor website at www.systemsensor.com.

Included:

(5) 1 x 4 Terminal Blocks



(2) 1¼" Stand offs



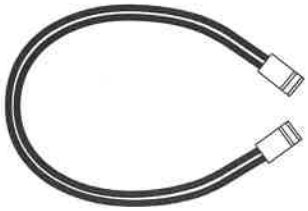
(3) Shunts

(4) Machine Screws

(2) Nuts

(6) 3.9k Ohm End of Line Resistors

(1) Long Power Supply Jumper



Shipped on Board:

(2) Shunts in Class A/B position

(Shipped in Class B position, remove shunts for Class A)

COMPATIBILITY REQUIREMENTS

To ensure proper operation, this module shall be connected to a compatible Notifier system control panel (list available from Notifier).

COMPONENTS

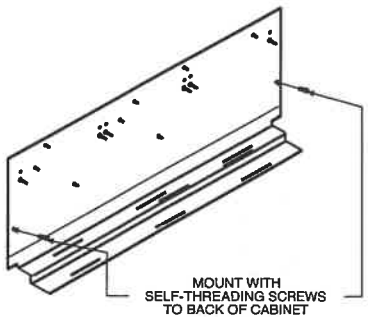
Following are descriptions of the XP6-MA mounting frameworks. There are two mounting options for XP6-MA modules:

- Up to six XP6-MA modules can be installed on a CHS-6 in a CAB-3 Series, CAB-4 Series or BB-25 cabinet
- One or two XP6-MA modules can be installed in a BB-XP cabinet

Chassis

The CHS-6 chassis is used to mount XP6-MA modules in a BB-25, CAB-3 or CAB-4 Series cabinet. It accommodates up to six XP6-MA modules in a single cabinet row three modules wide and two modules deep.

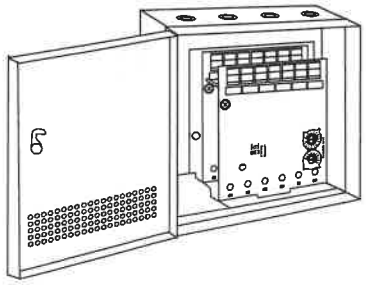
FIGURE 1. CHS-6 CHASSIS:



C0236-01

The BB-XP cabinet has a built-in chassis that will accommodate one or two XP6-MA modules.

FIGURE 2. BB-XP CABINET:



C0234-00

The front XP6-MA module positions of each chassis are offset below the rear XP6-MA module positions so that all of the status indicators are visible.

Cabinets

A BB-25, CAB-3 or CAB-4 Series cabinet will house the CHS-6 chassis with up to six XP6-MA modules installed on it. Refer to cabinet installation documents for dimensions.

The BB-XP cabinet houses one or two XP6-MA modules on the internal chassis that is part of the cabinet. Refer to cabinet installation documents for dimensions.

INSTALLATION STEPS

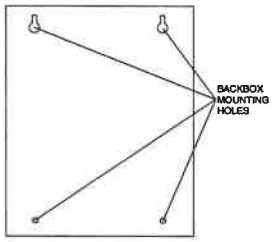
1. Cabinet Mounting

In a clean, dry area, mount the backbox using the four holes provided in the back surface of the cabinet (Figure 3).

2. Chassis Installation

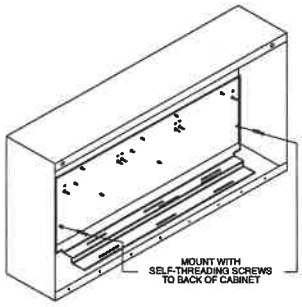
The CHS-6 chassis is mounted in the BB-25, CAB-3 or CAB-4 Series cabinet. It is shipped with two self-threading screws, which are used to fasten the chassis to the back wall of the cabinet (Figure 4).

FIGURE 3. TYPICAL MOUNTING HOLE LOCATIONS:



C0235-00

FIGURE 4: MOUNTING THE CHS-6 CHASSIS



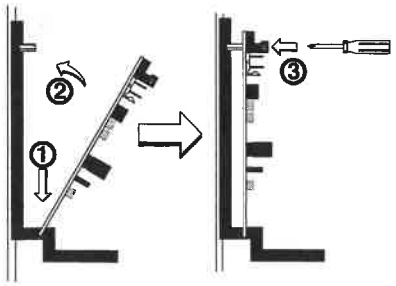
C0236-00

The BB-XP cabinet comes with the chassis already installed, so no mounting is necessary.

3. Module Installation

There are two methods for installing a module in the rear position of a chassis. Method one is for installation of a rear module only, when no module will be installed in front of it. Refer to Figure 5 for instructions. Method two is for installation of a rear module when another module will be installed in the chassis position in front of it. Refer to Figures 6a and 6b for method two. All necessary screws and standoffs are supplied with the modules.

FIGURE 5. INSTALLATION OF REAR MODULE ONLY, METHOD ONE:



C0237-00

Step 1: Insert the bottom of the XP6-MA module down into a rear slot on the chassis.

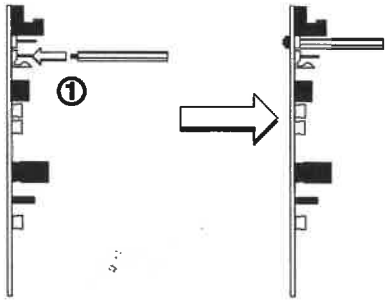
Step 2: Carefully swing the upper edge of the board back towards the back of the chassis until it touches the two standoffs.

Step 3: Align two 4-40 screws with the two standoffs and tighten.

Step 4: Address and wire the modules according to the instructions in this manual.

The steps in Figures 6A – 6C describe and illustrate module installation when the rear chassis position and the position in front of it will be filled. Front position installation is possible only if the rear position is filled with an XP module.

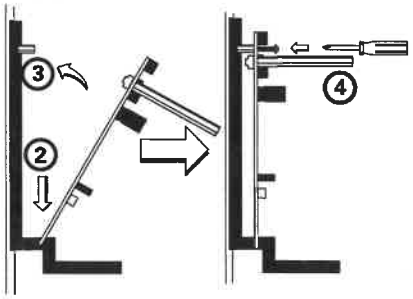
FIGURE 6A. INSTALLATION OF XP6-MA MODULE IN A REAR CHASSIS POSITION, METHOD TWO:



C0225-01

Step 1: Install two long standoffs in the lower mounting holes using two 4-40 nuts as shown.

FIGURE 6B.



C0249-01

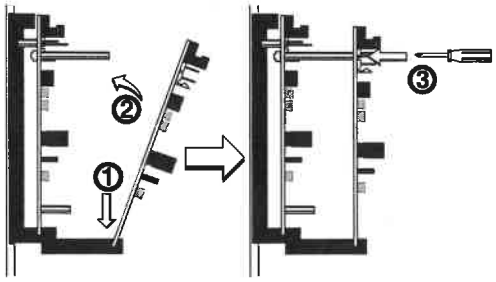
Step 2: Insert the bottom of the XP6-MA module down into a rear slot on the chassis.

Step 3: Carefully swing the upper edge of the board back towards the back of the chassis until it touches the two standoffs on the board.

Step 4: Align two 4-40 screws with the two standoffs on the chassis and tighten.

Step 5: Address and wire the modules according to the instructions in this manual.

FIGURE 6C. INSTALLATION OF XP6-MA MODULE IN FRONT CHASSIS POSITION:



C0226-01

Step 1: Insert the bottom edge of the XP6-MA module down into a front slot of the chassis.

Step 2: Carefully swing the upper edge of the board towards the back of the chassis until it touches the 1¼" (31.75mm) standoffs installed on the rear module.

Step 3: Align two 4-40 screws with the two standoffs and tighten.

Step 4: Address and wire the modules according to the instructions in this manual.

WIRING

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations.

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.

2. All wiring to the XP6-MA is done via terminal blocks. In order to properly make electrical connections strip approximately ¼" of insulation from the end of wire, sliding the bare end of the wire under the clamping plate screw.
3. Set the address on the modules per the job drawing. Use the rotary code switches to set the address of the first module (between 01 and 154).

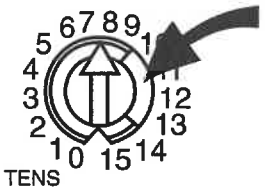
In Class B operation, the remaining modules are automatically assigned to the next five higher addresses. For example, if the base address switch is set to 28, the next five modules will be addressed to 29, 30, 31, 32 and 33.

The module is shipped in Class B position, remove shunts for Class A. When operating in Class A, alternate modules are paired together (+0/+1, +2/+3, +4/+5), resulting in a total of three modules. For example, if the base address switch is set to 28, then 30 and 32 will be automatically assigned to the modules while 29, 31 and 33 are available to be used for other modules on the SLC. For Class A and B operation, DO NOT set the lowest address above 154, as the other modules will be assigned to nonexistent addresses.

NOTE: The XP6-MA must have power cycled for shunt changes to take effect.
NOTE: Some panels support extended addressing. In order to set the module above address 99 on compatible systems, carefully remove the stop on the upper rotary switch (see Figure 7). If the panel does not support extended addressing, do not set the lowest address above 94.

4. A shunt is provided to disable a maximum of two unused modules in Class B operation and Class A operation. Modules are disabled from the highest address and work downward. If two modules are disabled, the lowest four addresses will be functional, while the highest two will be disabled. For example, in Class B operation, if the shunt for Address Disable is placed on "two" and the base switch is set to 28, the modules will be assigned to 28, 29, 30 and 31 while disabling the highest two positions.

FIGURE 7.



C0227-00

NOTE: Place unused shunts on single pin to store on board for future use.
NOTE: Power must not be applied to the unit when changing functionality on the shunts.

WIRING NOTES

- Power-limited circuits must employ type FPL, FPLR, or FPLP cable as required by Article 760 of the NEC.
- All wiring must be in accordance with the NEC, NFPA 72 and all other applicable codes and standards. All external power supplies must be power limited with battery back-up. All external power supplies and detectors must be UL listed for fire protection signaling applications.

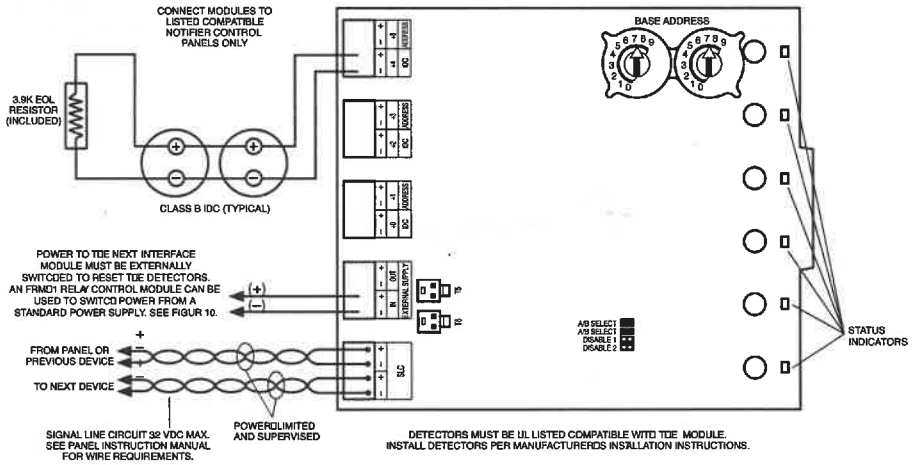
PROGRAMMING

The XP6-MA module operates with the following Fire Alarm Control Panels:

- AM2020/AFP1010
- AFP-200
- AFP-300/AFP-400
- NFS-3030
- System 5000 with AIM-200
- AFC-600
- NFS-640 (ONYX™ Series System)

The modules are programmed as devices in each system according to the programming instructions in the appropriate FACP manual.

FIGURE 8. INTERFACE TWO-WIRE CONVENTIONAL DETECTORS – CLASS B, STYLE B:

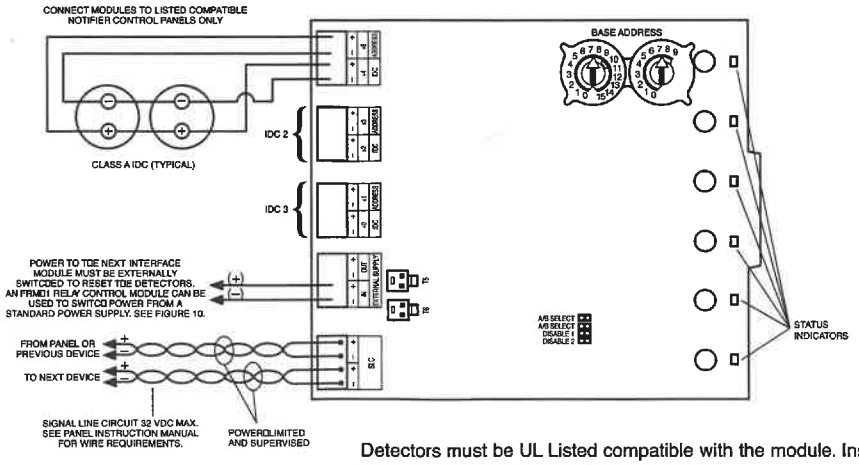


C0154-02

1. To use a common power supply between multiple XP6-MA modules, connect a long power supply jumper from T5 or T6 to T5 or T6 on the adjacent XP6-MA module.

FIGURE 9. INTERFACE TWO-WIRE CONVENTIONAL DETECTORS – CLASS A, STYLE D:

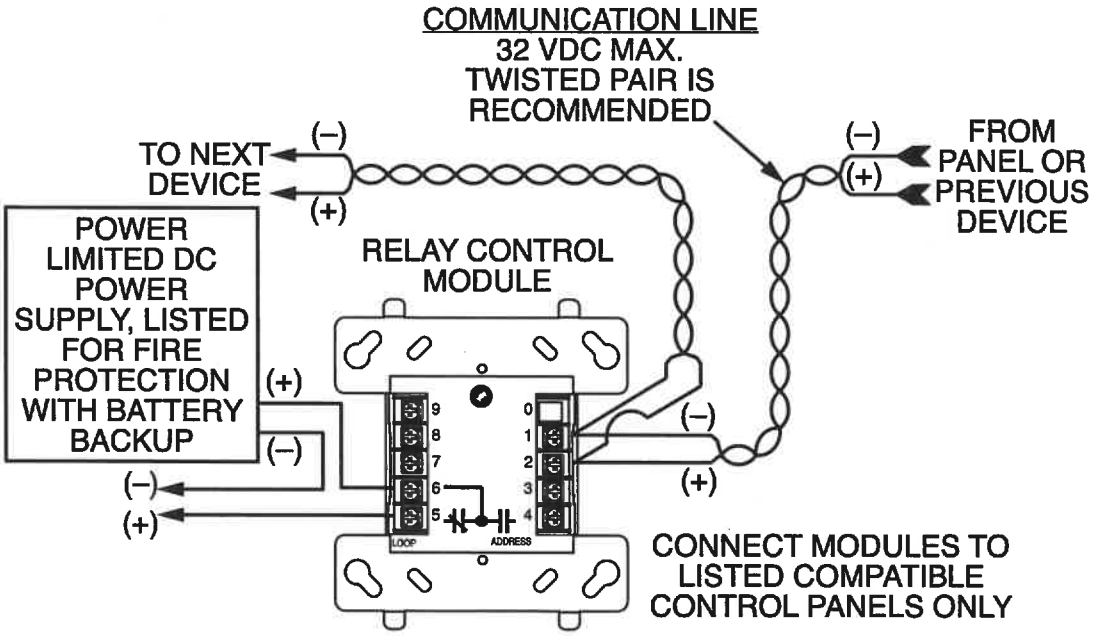
1. To select Class A, remove the two shunts from the "A/B select" positions.
2. To use a common power supply between multiple XP6-MA modules, connect a long power supply jumper from T5 or T6 to T5 or T6 on the adjacent XP6-MA module.



C0160-01

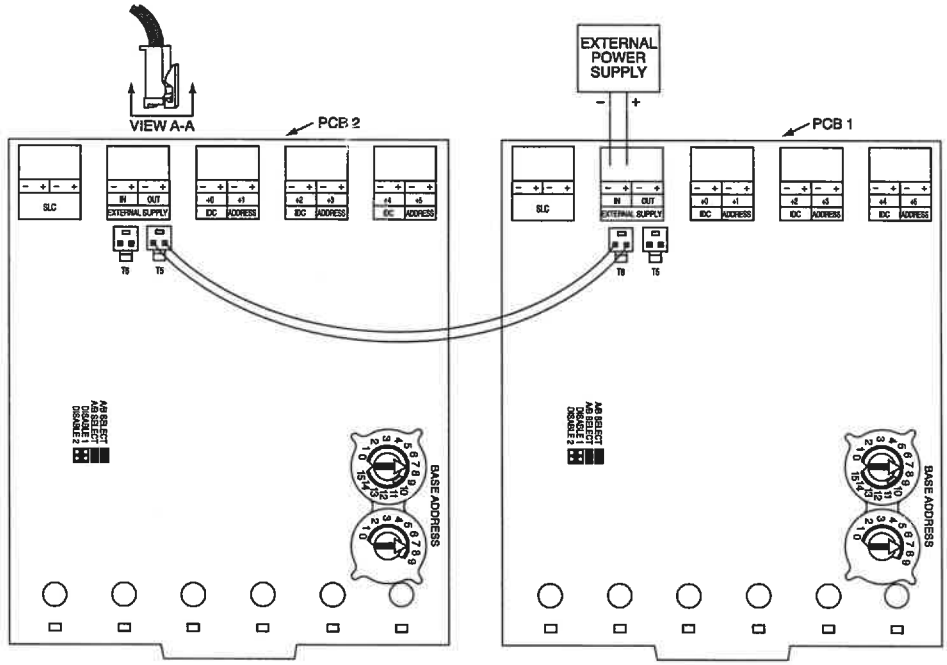
Detectors must be UL Listed compatible with the module. Install detectors per manufacturer's installation instructions.

FIGURE 10. RELAY CONTROL MODULE USED TO DISCONNECT A POWER SUPPLY:



C0248-00

FIGURE 11. EXAMPLE OF MULTIPLE BOARDS SHARING SAME EXTERNAL SUPPLY. REFER TO FIGURES 8 AND 9 FOR TYPICAL WIRING. MAKE CERTAIN LIP ON LONG POWER SUPPLY JUMPER ENGAGES RETAINING TAB ON T5 OR T6 AS SHOWN IN VIEW A-A:



C0142-00

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

TriTeK

Fire, Security & Communications

A Subsidiary of TriTek Fire & Security, LLC

The Integration of Technology and Life Safety

FIRE ALARM SYSTEM PROTECTION

SECTION A.10.4.4 OF THE NATIONAL FIRE ALARM CODE HANDBOOK STATES THAT SMOKE DETECTION SHALL BE PROVIDED AT THE LOCATION OF EACH FACP, NAC AND SUPERVISING STATION TRANSMITTING EQUIPMENT TO PROVIDE NOTIFICATION OF FIRE AT THAT LOCATION.

- EXCEPTION #1: WHERE AMBIENT CONDITIONS PROHIBIT INSTALLATION OF AUTOMATIC SMOKE DETECTION, AUTOMATIC HEAT DETECTORS SHALL BE PERMITTED.

SMOKE DETECTOR INSTALLATION LOCATION:

SECTION A.17.4.8 STIPULATES:

- WHERE THE CEILING IS 15ft IN HEIGHT OR LESS, THE SMOKE DETECTOR SHOULD BE LOCATED ON THE CEILING OR THE WALL WITHIN 21ft OF THE CENTERLINE OF THE FIRE ALARM CONTROL UNIT BEING PROTECTED BY THE DETECTOR.
- WHERE THE CEILING EXCEEDS 15ft IN HEIGHT, THE AUTOMATIC SMOKE DETECTOR SHOULD BE INSTALLED ON THE WALL ABOVE AND WITHIN 60in FROM THE TOP OF THE CONTROL UNIT.

SEE DETAIL 1 AND 2 ON F0.1 FOR MORE SMOKE DETECTOR LOCATION REQUIREMENTS.

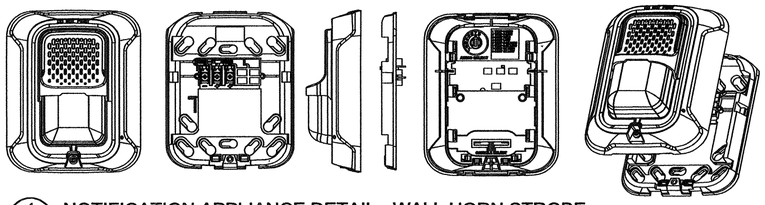
NOTES

BELOW IS A LIST OF ITEMS THAT SHOULD BE REVIEWED AND/OR COMPLETED PRIOR TO THE ARRIVAL OF A TRITEK TECHNICIAN. PLEASE KEEP IN MIND THAT IF SOME ASPECTS OF SYSTEM TESTING CANNOT BE COMPLETED DURING THE TECHNICIANS SCHEDULED ON SITE DATES (i.e. DEVICES NOT IN PLACE, WIRING PROBLEMS, OR OTHER TRADES NOT ON SITE AS NEEDED TO COMPLETE INTERCONNECTION AND TESTING) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY TRITEK WHEN THE TECHNICIAN WILL BE REQUIRED BACK ON SITE. PLEASE BE AWARE THAT TRITEK REQUIRES A FIVE (5) BUSINESS DAY NOTIFICATION IN ORDER TO SCHEDULE/RESCHEDULE A TECHNICIAN.

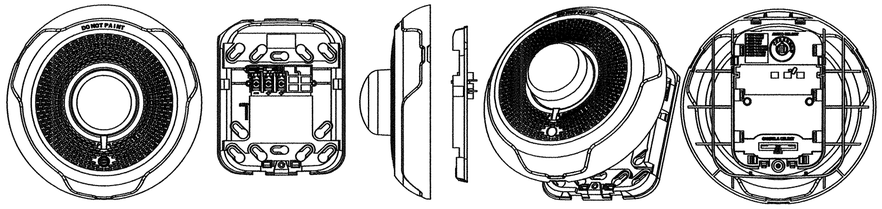
PLEASE REVIEW THE FOLLOWING ITEMS

- ALL EQUIPMENT PROVIDED BY OTHER TRADES THAT NEED TO BE MONITORED OR CONTROLLED BY THE TRITEK EQUIPMENT IS TO BE INSTALLED AND READY FOR TESTING
- PHONE LINES FOR CENTRAL STATION MONITORING INSTALLED AND A MONITORING ACCOUNT SETUP WITH EITHER TRITEK OR OTHER THIRD PARTY. (IF OTHER THAN TRITEK ALL ACCOUNT INFORMATION NEEDS TO BE ON HAND)
- FIRE MARSHALL INSPECTION *(REQUIRES A 5 BUSINESS DAY NOTICE TO TRITEK FOR TECHNICIAN SCHEDULING)*
- DHEC INSPECTION *(REQUIRES A 5 BUSINESS DAY NOTICE TO TRITEK FOR TECHNICIAN SCHEDULING)*
- ELEVATOR INSPECTION *(REQUIRES A 5 BUSINESS DAY NOTICE TO TRITEK FOR TECHNICIAN SCHEDULING)*
- CUSTOMER TRAINING *(REQUIRES A 5 BUSINESS DAY NOTICE TO TRITEK FOR TECHNICIAN SCHEDULING)*

DETAILS

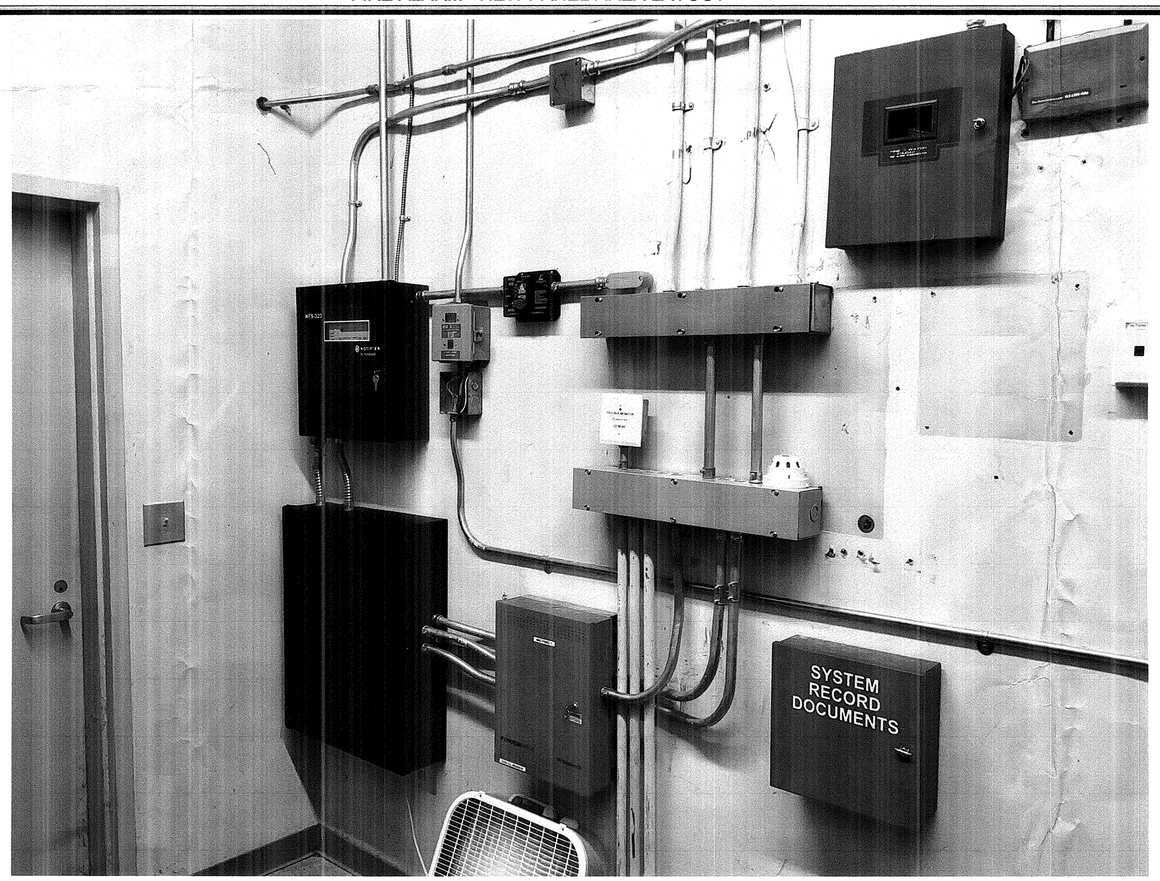


1 F0.0 NOTIFICATION APPLIANCE DETAIL - WALL HORN STROBE
SCALE: NO SCALE



2 F0.0 NOTIFICATION APPLIANCE DETAIL - CEILING HORN STROBE
SCALE: NO SCALE

FIRE ALARM - NEW PANEL AREA LAYOUT



ABBREVIATIONS

A / O	AUDIO / ONLY
A / V	AUDIO / VISUAL
ADA	AMERICANS WITH DISABILITES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATIVE
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATE
ARCH	ARCHITECT
BLDG	BUILDING
BTM	BOTTOM
CCTV	CLOSED CIRCUIT TELEVISION
℄	CENTER LINE
CLG	CEILING
CM	CONTROL MODULE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTL	CONTROL
DC	DOOR CONTACT
DD	DUCT DETECTOR
DEMO	DEMOLITION
DH	DOOR HOLDER
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAEP	FIRE ALARM EVACUATION PANEL
FE	FIRE EXTINGUISHER
FLR	FLOOR
FP	FIRE PROTECTION
FT	FOOT / FEET
GA	GAGE
GC	GENERAL CONTRACTOR
HD	HEAT DETECTOR
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
LOC	LOCATED / LOCATION
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MD	MOTION DETECTOR
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELANEOUS
MM	MONITOR MODULE
MS	MOTION SENSOR
N / A	NOT APPLICABLE
NAC	NOTIFICATION APPLIANCE CIRCUIT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OPP	OPPOSITE
PNL	PANEL
REQD	REQUIRED
REV	REVISE / REVISION
RM	ROOM
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SHT	SHEET
SIM	SIMILAR
SLC	SIGNALING LINE CIRCUITS
SPECS	SPECIFICATIONS
SPKR	SPEAKER
TEMP	TEMPORARY
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V / O	VISUAL ONLY
VERT	VERTICAL
VIF	VERIFY IN FIELD
WG	WIRE GUARD
WP	WEATHER PROOF
W /	WITH
W / O	WITH OUT
&	AND
@	AT

DRAWING INDEX

TRITEK PROJECT TEAM

ENGINEERING MANAGER
JAMES ADAMS

SYSTEM DESIGNER
EDDIE STEVENS (NICET 4 - #98485)

AS BUILT

CURRENT PHASE:	☐ SUBMITTAL	☐ ROUGH-IN	☐ INSTALL
☐ PROGRAMMING	☐ PUNCH LIST	☒ AS BUILT	☐ INSPECTION
PRINTED: XX/XX/XX	RETURNED: XX/XX/XX	TECHNICIAN:	XX

NO.	REVISION	DATE	BY

TriTeK
Fire, Security & Communications
The Integration of Technology and Life Safety
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COLUMBIA, SC 29212
PHONE: 803-407-0747
FAX: 803-407-0779

MTC - ACADEMIC CENTER PANEL REPLACEMENT
COLUMBIA, SOUTH CAROLINA

FIRE ALARM TITLE PAGE & RISER

DRAWN BY: JA
CHECKED BY: ES
PROJECT NUMBER: 15326
DATE: 08-22-23

F0.0
DRAWING NO 1 OF 3

NAC PANEL BATTERY CALCULATIONS

Project #: 15338		Project Name: MTC DENTAL RENO									Date: 2/15/2023
Panel Label:	NAC-A	Calculations provided by Tritek Fire & Security									
Standby Hours: 24		Alarm Minutes: 5									
Device Type		STANDBY CURRENT PER UNIT (AMPS)		QTY		TOTAL STANDBY CURRENT PER ITEM	ALARM CURRENT PER UNIT (AMPS)		QTY		TOTAL ALARM CURRENT PER ITEM
EOL 4.7K1		0.0000	x	1	=	0.0000	0.0109	x	1	=	0.0109
P2WL15		0.0000	x	5	=	0.0000	0.0730	x	5	=	0.3650
SWL15		0.0000	x	4	=	0.0000	0.0430	x	4	=	0.1720
HPF-PS10B		0.1780	x	1	=	0.1780	0.2320	x	1	=	0.2320
		TOTAL SYSTEM STANDBY CURRENT (AMPS)				0.1780	TOTAL SYSTEM ALARM CURRENT (AMPS)				0.7799
		REQUIRED STANDBY TIME (HRS) NFPA 72		TOTAL SYSTEM STANDBY CURRENT (AMPS)		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS) NFPA 72		TOTAL SYSTEM ALARM CURRENT (AMPS)		REQUIRED ALARM CAPACITY (AMP-HOURS)
		24	x	0.1780	=	4.2720	0.083	x	0.7799	=	0.0647
		REQUIRED STANDBY CAPACITY (AMP-HOURS)		REQUIRED ALARM CAPACITY (AMP-HOURS)		TOTAL CAPACITY (AMP-HOURS)			SAFETY FACTOR		ADJUSTED BATTERY CAPACITY (AMP-HOURS)
		4.27	+	0.0647	=	4.3367		x	120%	=	5.204
									BATTERY SUPPLIED FOR PROJECT		8AH

VOLTAGE DROP CALCULATIONS

Project #:	15338	Project Name: MTC DENTAL RENO	
Panel Label:	NAC-A	Model #: HPF-PS10B	
Circuit Number as noted on drawings:	AA	Location of Circuit:	3RD FLOOR

Total Amp Per Ckt:	2	Amps
Nominal System Voltage:	20.4	Volts
Minimum Device Voltage:	16	Volts
Total Circuit Current:	0.548	Amps
Distance from source to 1st device:	150	Ft
Standby:	24	Hours
Alarm:	5	Minutes

	Wire Gauge	Ohm's Per 1000
	14	2.525
Wire Gauge for balance of circuit:	14	2.525

Enter current in amps .150 = 150 ma

Device Number	Part Number	Candela	Device Current	Distance from previous device	Voltage At Device	Voltage Drop from source	Voltage Percent Drop
Device 1	P2WL	15	0.073	150	19.98	0.415	2.03%
Device 2	P2WL	15	0.073	30	19.91	0.487	2.39%
Device 3	SWL	15	0.043	15	19.88	0.517	2.54%
Device 4	SWL	15	0.043	25	19.84	0.563	2.76%
Device 5	P2WL	15	0.073	65	19.73	0.666	3.27%
Device 6	P2WL	15	0.073	15	19.72	0.685	3.36%
Device 7	SWL	15	0.043	45	19.68	0.723	3.55%
Device 8	P2WL	15	0.073	35	19.65	0.746	3.66%
Device 9	SWL	15	0.043	40	19.64	0.757	3.71%
Device 10	EOL 4.7K		0.011	1	19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
None					19.64	0.757	3.71%
		Totals:	0.548	421	End of Line Voltage		19.64

Date: 2/15/2023 — Calculations provided by Tritek Fire & Security

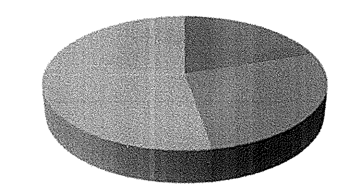
Point to Point Method			End of Line Method			Load Centering Method		
CIRCUIT IS WITHIN LIMITS			CIRCUIT IS WITHIN LIMITS			CIRCUIT IS WITHIN LIMITS		
Totals Current	Totals Distance	Voltage Drop	Totals Current	Totals Distance	Voltage Drop	Totals Current	Totals Distance	Voltage Drop
0.548	421	0.76	0.548	421	0.582	0.548	421	0.582
End of Line Voltage		19.64	End of Line Voltage		19.82	End of Line Voltage		19.82
Percent Drop		3.71%	Percentage Drop		2.86%	Percentage Drop		2.86%

End of Line and Load Centering Methods use only the wire guage for the first device to source
Standard Wire Resistance in Ohms per 1000 feet.
18=6.385 16=4.016 14=2.525 12=1.59 10=0.99
18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

Notes:
Wire resistance is doubled in the calculations for two wires (Positive and Negative). The voltage calculated to the last device in any method must not be lower than the manufacturers listed minimum operating voltage (IE: rated operating voltage 20-32 VDC).

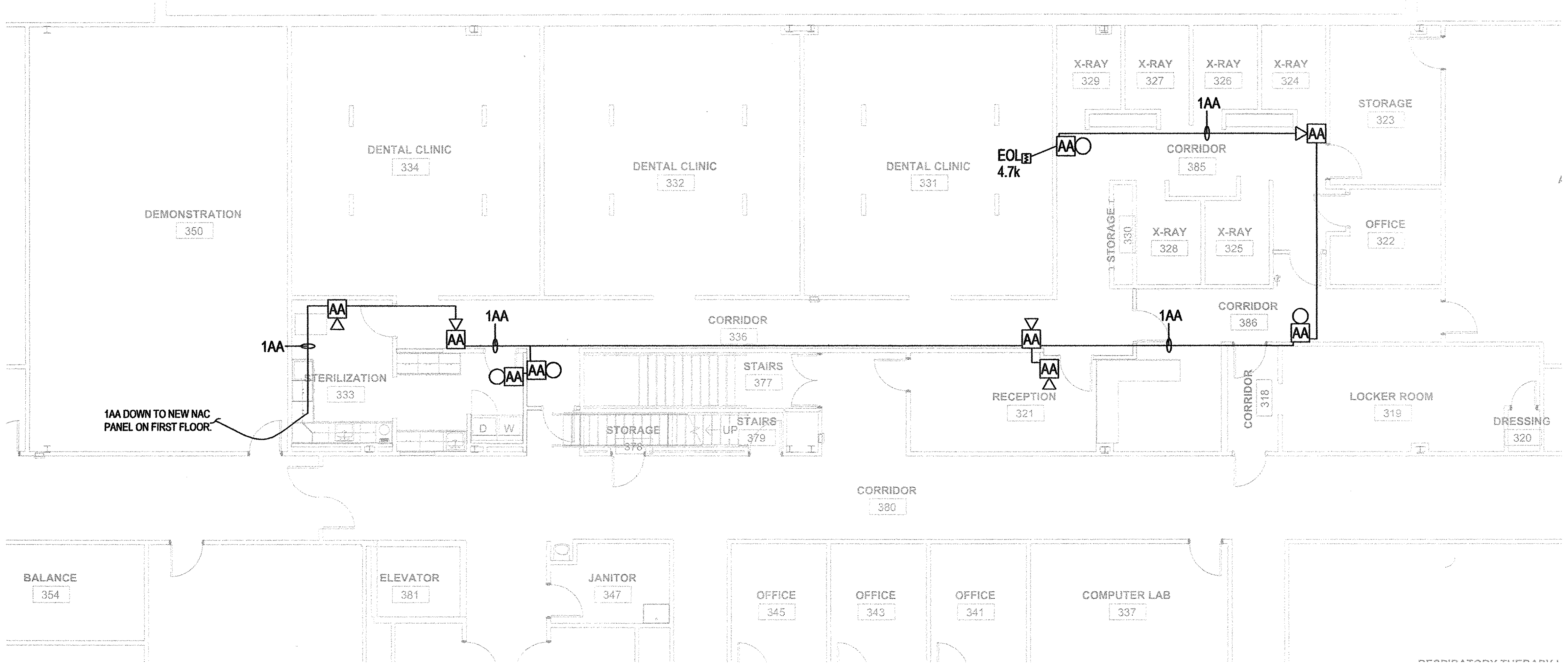
Spare Capacity

Minimum Spare Capacity Required	20%
Current Draw Capacity Used	27%
Capacity (Not including Spare)	53%



2 F1.0 CALCULATIONS
SCALE: N/A

NOTES:
1. PROVIDE SURGE PROTECTION ON DEDICATED 120VAC FEEDING PANEL.
2. CABLING TO BE PLENUM RATED AND NEATLY TIEWRAPPED TO JOISTS OR SECURED WITH APPROVED HANGERS. WHERE CABLING IS LOCATED IN INACCESSIBLE LOCATIONS, INSTALL IN ¾" EMT PAINTED RED.



1 F1.0 FIRE ALARM PLAN - 3RD FLOOR DENTAL
SCALE: 1/8" = 1'-0"

SCHEDULES / LEGENDS

DEVICE LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
NAC	FIRE ALARM REMOTE POWER SUPPLY PANEL
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
DD	DUCT DETECTOR
F	PULL STATION
XX	AUDIO / VISUAL INDICATING DEVICE - WALL MOUNT
AV XX	AUDIO / VISUAL INDICATING DEVICE - CEILING MOUNT
XX	VISUAL ONLY INDICATING DEVICE - WALL MOUNT
V XX	VISUAL ONLY INDICATING DEVICE - CEILING MOUNT
M T,F,P	MONITOR MODULE (T = TAMPER, F = FLOW, P = PRESSURE)
C	CONTROL MODULE
R	RELAY MODULE
I	ISOLATION MODULE
T	REMOTE INDICATOR WITH TEST STATION (KEYED) FOR DUCT DETECTOR
I	REMOTE INDICATOR FOR DUCT DETECTOR
DH	DOOR HOLDER
J	JUNCTION BOX (HORIZONTAL WIRING)
J	JUNCTION BOX (VERTICAL WIRING / RISER)
	END OF LINE (EOL) RESISTOR
	REPRESENTS WIRE OR CIRCUIT GOING "OUT"
	REPRESENTS WIRE OR CIRCUIT COMING "IN"

DEVICE LEGEND NOTES:

1. SEE DETAIL 1/F0.1 FOR TYPICAL MOUNTING HEIGHTS.
2. SEE F0.1 FOR STANDARD WIRING & INSTALLATION DETAILS.
3. ALL VISUAL NOTIFICATION DEVICES SHALL HAVE A 15 CANDELA RATING UNLESS SHOWN OTHERWISE ON PLANS (i.e. 30cd, 75cd, etc...).
4. "XX" SHOWN ON NOTIFICATION APPLIANCES NOTATES NAC CIRCUIT, SEE WIRE LEGEND FOR LIST OF CIRCUITS.

BACKBOX SCHEDULE

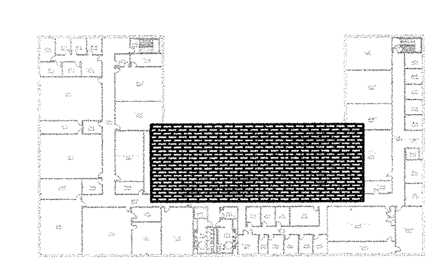
DEVICE TYPE	PART #	MOUNT	BACKBOX	QTY.
NAC-A	HPF-PS10B	SURFACE	INCLUDED	1
HORN/STROBE	P2WL	WALL	4"x4"x1½"	5
STROBE	SWL	WALL	4"x4"x1½"	4

BACKBOX NOTES:

* = PROVIDE PLASTER RING
** = PROVIDE WITH EXTENSION OR 2⅛" BOX

WIRE LEGEND

LABEL	DESCRIPTION	PANEL	LOCATION
AA	14-02 SOL UNS FPLP	NAC-A	3RD FLOOR



KEYPLAN

AS BUILT

CURRENT PHASE: ☐ SUBMITTAL ☐ ROUGH-IN ☐ INSTALL ☐ PROGRAMMING ☐ PUNCH LIST ☒ AS BUILT ☐ INSPECTION
PRINTED: XX/XX/XX RETURNED: XX/XX/XX TECHNICIAN: XX

NO.	REVISION	DATE	BY

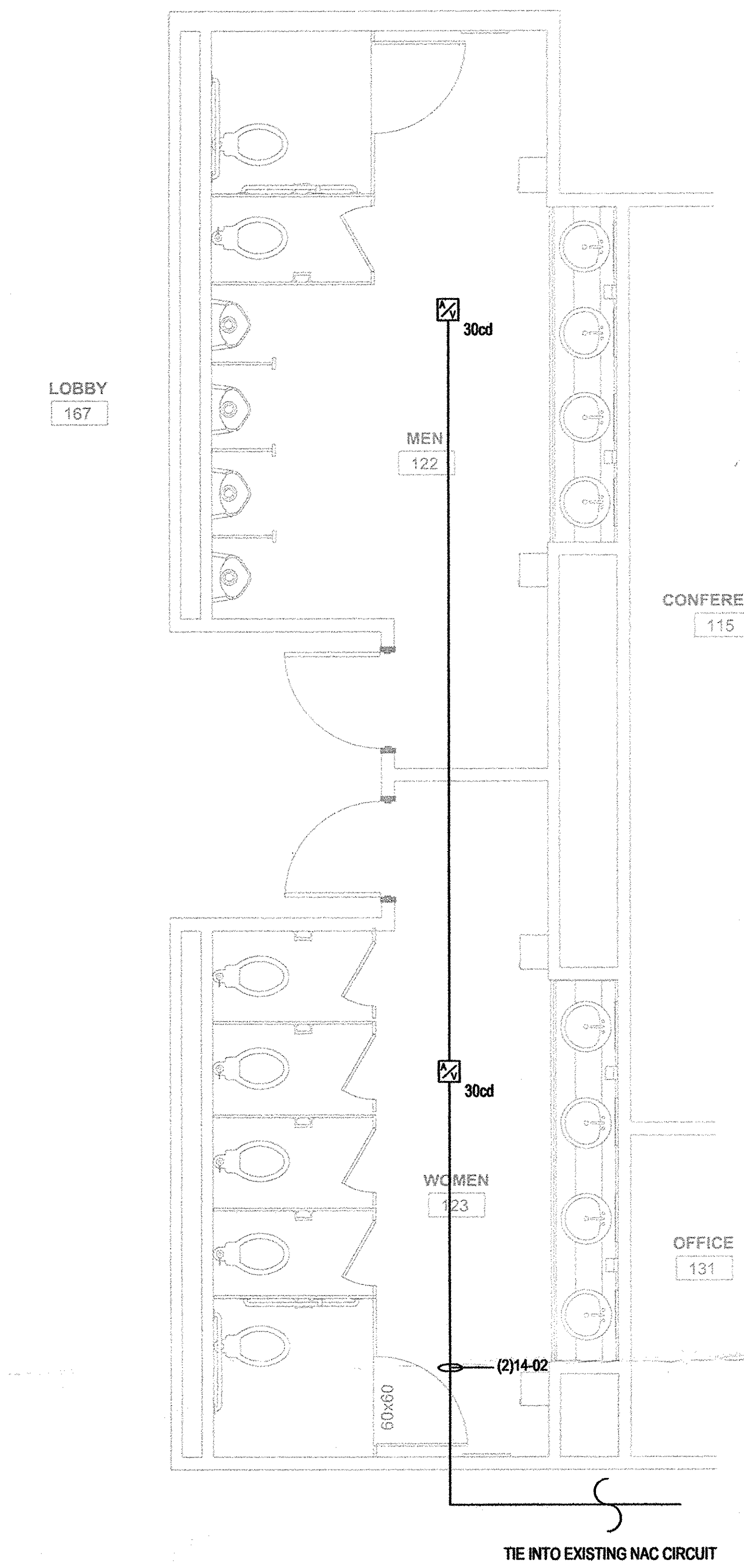
TriTeK Fire, Security & Communications
The Integration of Technology and Life Safety
6 WOODCROSS DRIVE
COLUMBIA, SC 29212
PHONE: 803-407-0747
FAX: 803-407-0779

MTC - DENTAL RENOVATIONS
COLUMBIA, SOUTH CAROLINA

FIRE ALARM PLAN

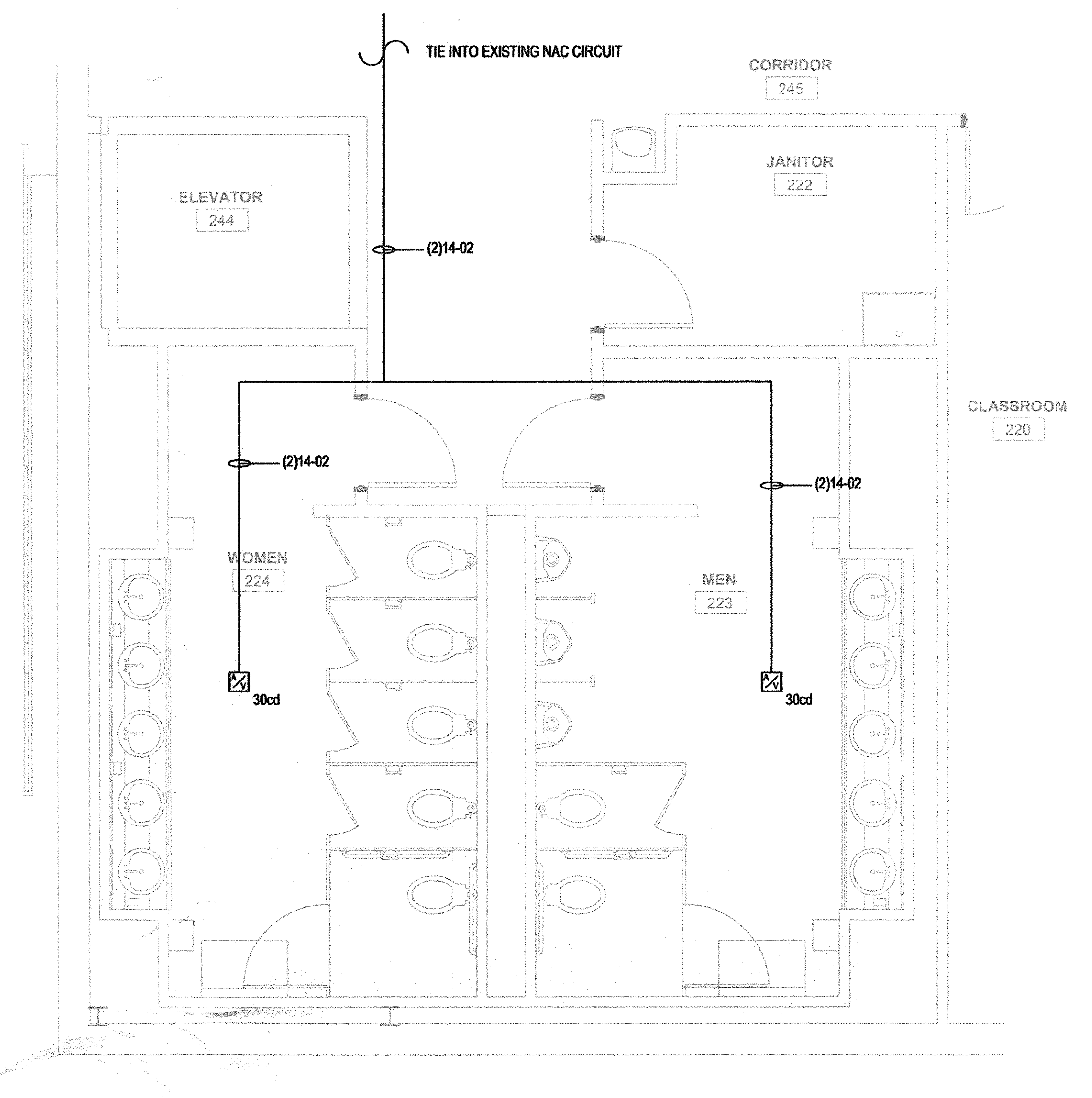
DRAWN BY: JA
CHECKED BY: ES
PROJECT NUMBER: 15338
DATE 08-22-23

F1.0
DRAWING NO 2 OF 3



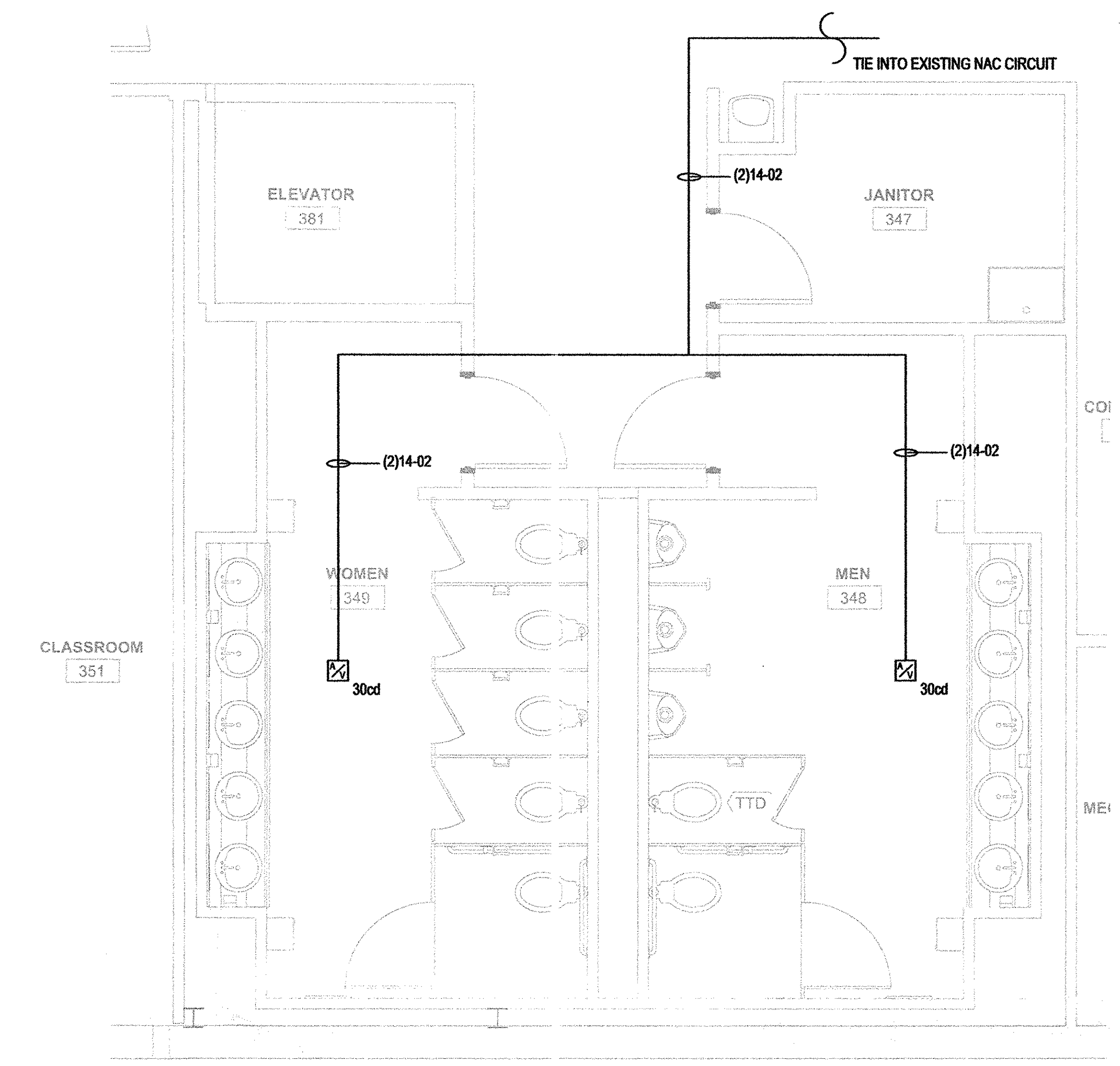
4 / F1.0 FIRST FLOOR BATHROOM FIRE ALARM PLAN

SCALE: 1/4" = 1'-0"



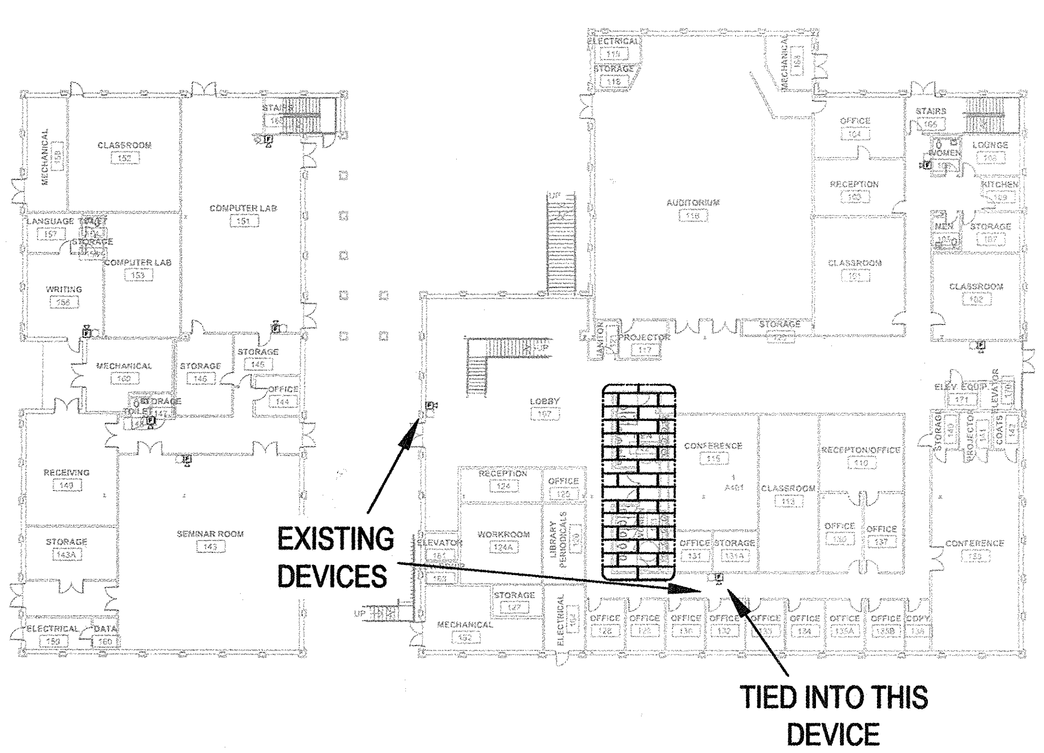
5 / F1.0 SECOND FLOOR BATHROOM FIRE ALARM PLAN

SCALE: 1/4" = 1'-0"



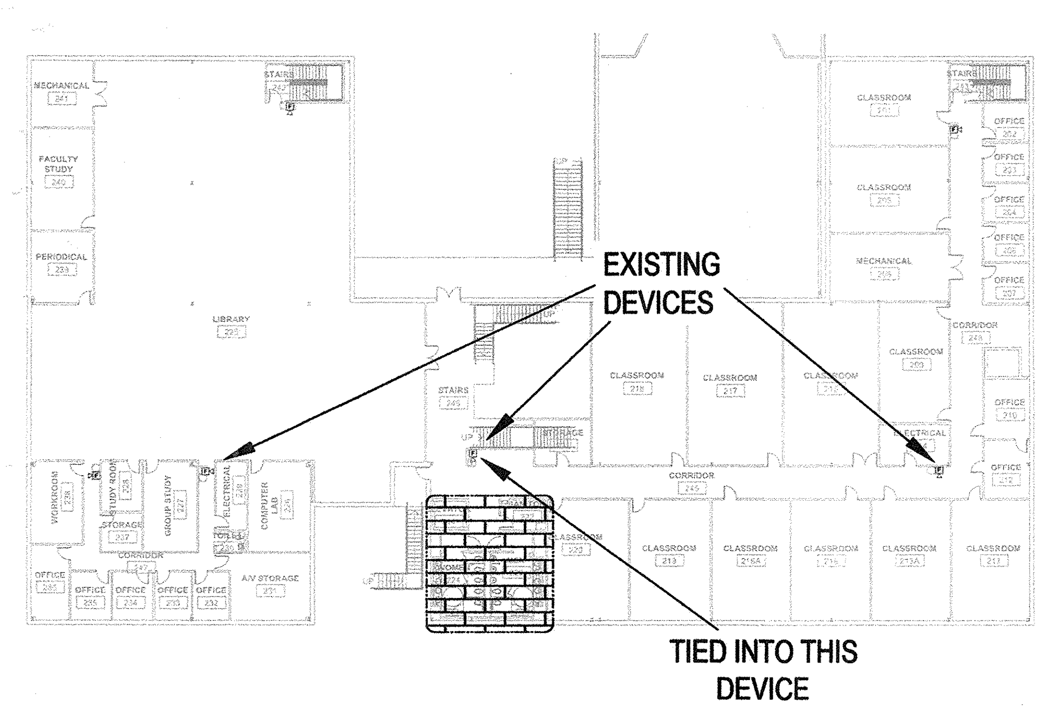
6 / F1.0 THIRD FLOOR BATHROOM FIRE ALARM PLAN

SCALE: 1/4" = 1'-0"



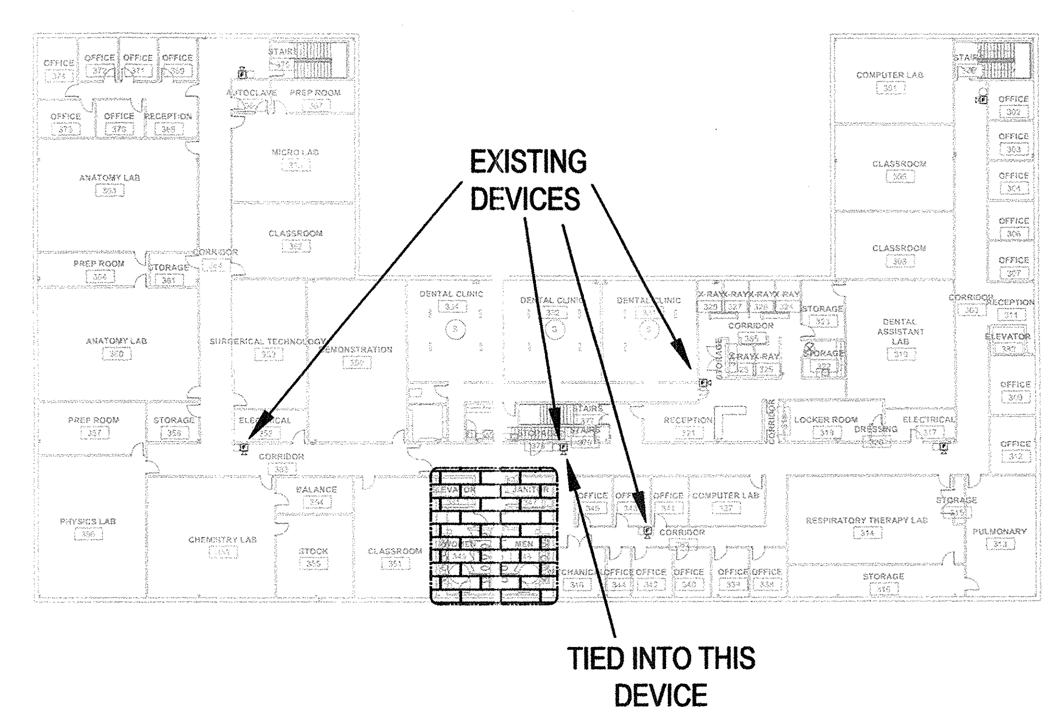
1 / F1.0 KEY PLAN 1ST FLOOR

SCALE: 1/32" = 1'-0"



2 / F1.0 KEY PLAN 2ND FLOOR

SCALE: 1/32" = 1'-0"



3 / F1.0 KEY PLAN 3RD FLOOR

SCALE: 1/32" = 1'-0"

AS BUILT

CURRENT PHASE: ☐ SUBMITTAL ☐ ROUGH-IN ☐ INSTALL ☐ PROGRAMMING ☐ PUNCH LIST ☒ AS BUILT ☐ INSPECTION

PRINTED: XX/XX/XX RETURNED: XX/XX/XX TECHNICIAN: XX

NO.	REVISION	DATE	BY

TriTek Fire, Security & Communications

6 WOODCROSS DRIVE
COLUMBIA, SC 29212
PHONE: 803-407-0747
FAX: 803-407-0779

MTC - BATHROOM RENOVATION
COLUMBIA, SOUTH CAROLINA

FIRE ALARM PLAN

DRAWN BY: JA

CHECKED BY: ES

PROJECT NUMBER: 15336

DATE 08-22-23

F2.0

DRAWING NO 3 OF 3

FIRE ALARM INSPECTION REPORT PER NFPA 72

TriTeK Fire, Security & Communications

6 Woodcross Drive
Columbia, SC 29212
Phone: (803) 407-0747
Fax: (803) 407-0779
Florence Office (843) 664-8811 - Augusta, GA Office: (706) 722-4464

SC Fire Alarm License # FAC 3282
GA Low Voltage/Fire Alarm License # LVA205486

Project/Site Information

Property Name:	MTC AIRPORT ACADEMIC BLDG	Project #:	
Customer Name:	MIDLANDS TECH	Date:	6/18/2023
Address:	1260 LEXINGTON DR	Time:	3;30 PM
City, St, ZIP:	W COLUMBIA S.C 29170		
Phone Number:			

Introduction

Thank you for choosing TriTek Fire & Security, LLC for your Fire Alarm Inspection Services.
The following pages will list your system and the status of all devices, ie: Pull Stations, Smoke, Heat & Duct Detectors.
A quote will be provided for your repair work.

This inspection form meets all requirements of NFPA 72, 2002, 2007, 2010, 2013, & 2016 editions.

THIS TESTING WAS PERFORMED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.

Inspector: William Hamilton

Signature:

Owner or Representative:

Signature:

Panel Manufacture

Manufacture:	NOTIFIER
Model Number:	NFS-320
Date of last service:	6/15/2023
Date of Software change:	

Power Source

Breaker Location:	ELEC ROOM 159
Breaker Panel:	1LA
Breaker Number:	26

Trouble Conditions Tested:

SLC Loop Trouble:	Pass
Zone Loop Trouble:	Pass
Signal Circuit Trouble:	Pass
AC/OP Power Loss:	Pass
Earth Ground:	Pass

Monitoring Entity:

Company Name:	SECURTY CENTRAL
Type of Monitoring:	Digital
Account Number:	2200-HY
Phone Number:	1-800-438-4171
Operator Number:	10

Elevator Recall

Number of Elevators:	2
Elevator Primary Recall:	N/A
Elevator Alternate Recall:	N/A
Elevator Firemans Hat:	N/A
Elevator Shunt Trip:	N/A

Alarm Verification

Received Alarm:	Pass
Alarm Restore:	Pass
Received Trouble:	Pass
Received Supervisory:	Pass
Supervisory Restore:	Pass

HVAC

HVAC Shutdown:	N/A
Number of Units:	6
Comments:	

Remote Annunciators

Type:	LCD
Quantity:	1
Annunciator Operation:	Pass

FACP / NAC Panels

Type	Panel #	Manufacturer	Model	Location	# of Ckts	Class
FACP	1	NOTIFIER	NFS-320	ELEC ROOM 159	1	B
NAC	1	WHEELOCK	PS-8-LP	ELEC ROOM 159	2	B
NAC	2	WHEELOCK	PS-8-LP	ELEC ROOM 1564	1	B

FIRE ALARM INSPECTION REPORT PER NFPA 72

Project/Site Information

Property Name: ART SMART
Customer Name:
Address: 7106 BROAD RIVER RD
City, St, ZIP: IROM S.C
Phone Number: 803-667-9912

Project #: 15275
Date: 1/23/2023
Time: 9:00 AM

Secondary Power

Panel	VDC w/ charger	VDC w/o charger	Battery #	Amp HR	Battery Voltage	Load Test	Pass/Fail	Comments
FACP	24.66	24.33	Battery #1	12AH	12,45	100%	PASS	
FACP			Battery #2	12AH	12.22	100%	PASS	
NAC 1	25.77	24.22	Battery #1	8	12.76	100%	PASS	
NAC 1			Battery #2	8	12.45	100%	PASS	
NAC 2	25.88	24.67	Battery #1	8	13.56	100%	PASS	
NAC 2			Battery #2	8	13.78	100%	PASS	

Alarm Initiating Devices

Device	Total #	# Tested	# Failed
Pull Stations:	14		
Photo Smoke Detectors:	49		2
Ionization Detector:			
Duct Detectors:	14		
Fixed Temp Heat Detectors:	9		
Rate of Rise Heat Detectors:			
Flame Detector:			
Beam Detectors:			
Stand Alone Smoke Detector:			
Carbon Monoxide Detector:			
Gas Detector:			
Smoke/Heat Detector:			
Gas/Smoke Detector:			
Damper:			
Smoke/Fire Door:			
Tamper Switch:			
Flow Switch:			
Pressure Switches:			
PIV Switches:			
Monitor Module:			
Relay Module:	6		
Control Module:			
Hood Suppression:			

Notification Devices

Device	Total #	# Tested	# Failed
Horn / Strobe:			
Chime / Strobe:			
Speaker / Strobe:			
Horn Only:			
Strobe Only:			
Chime Only:			
Speaker Only:			
Bell Only:			
Firemans Phone:			
Sounder Base:			

Additional Devices

Call Station:			
Door Holder:	6	6	
Supervisory:			

See *Device Testing Summary* page for Individualy Tested Devices / Status & Location

Inspection Frequency:	
Weekly	☐
Monthly	☐
Quarterly	☐
Semiannually	☐
Annually	☑

Notifications that testing is complete:	Yes	No
Building Management	☑	☐
Monitoring Agency	☑	☐
Building Occupants	☑	☐
Other (Specify)	☐	☐

Comments:
TESTING AFTER NEW INSTALL

FIRE ALARM INSPECTION REPORT PER NFPA 72

Project/Site Information

Property Name:	MTC AIRPORT ACADEMIC BLDG	Project #:	
Customer Name:	MIDLANDS TECH	Date:	6/18/2023
Address:	1260 LEXINGTON DR	Time:	3;30 PM
City, St, ZIP:	W COLUMBIA S.C 29170		
Phone Number:			

Abbreviations:

INITIATION DEVICES: **MP** = Manual Pull Station, **PD** = Photo Smoke Detector, **ID** = Ionization Smoke Detector, **DD** = Duct Smoke Detector, **FT** = Fixed Temp Heat Detector, **RR** = Rate of Rise Heat Detector, **FD** = Flame Detector, **BD** = Beam Detector, **SA** = Stand Alone Smoke Detector, **CX** = Carbon Monoxide Detector, **GD** = Gas Detector, **CG** = Combo Gas/Smoke Detector, **SH** = Smoke/Heat Detector, **DP** = Damper, **SF** = Smoke/Fire Door, **TS** = Tamper Switch, **FS** = Flow Switch, **PS** = PSI Sprinkler, **PI** = Post Indicator Valve, **MM** = Monitor Module, **RM** = Relay Module, **CM** = Control Module, **HS** = Hood Suppression, **CS** = Call Station, **DH** = Door Holder, **SU** = Supervisory, **FP** = Firephone

NOTIFICATION DEVICES: **AV** = Audio/Visual, **VO** = Visual Only, **SV** = Speaker/Strobe, **CV** = Chime/Strobe, **HO** = Horn Only, **CO** = Chime Only, **SP** = Speaker, **BO** = Bell Only, **SB** = Sounder Base

Pass / Fail Summary

Device Location	Address	Type	Pass	Fail	Comments
BACK ELEV LOBBY 1ST FL	L1D001	PD	✓		
BACK ELEV LOBBY 2ND FL	L1D002	PD	✓		
BACK ELEV LOBBY 3RD FL	L1D003	PD	✓		
BACK ELEV MECH 1ST FL	L1D004	PD	✓		
FRONT ELEV LOBBY 1ST FL	L1D005	PD	✓		
FRONT ELEV LOBBY 2ND FL	L1D006	PD	✓		
FRONT ELEV LOBBY 3RD FL	L1D007	PD	✓		
FRONT ELEV MECH 1ST FL	L1D008	PD	✓		
SEMINAR ROOM 143 1ST FL	L1D009	PD	✓		
SEMINAR ROOM 143 1ST FL	L1D010	PD	✓		
SEMINAR ROOM 143 1ST FL	L1D011	PD	✓		
SEMINAR ROOM 143 1ST FL	L1D012	PD	✓		
COMPUTER LAB 151 1ST FL	L1D013	PD	✓		
COMPUTER LAB 151 1ST FL	L1D014	PD	✓		
COMPUTER LAB 151 1ST FL	L1D015	PD	✓		
HALL BY RM 126 1ST FL	L1D016	PD	✓		

FIRE ALARM INSPECTION REPORT PER NFPA 72

Project/Site Information

Property Name: MTC AIRPORT ACADEMIC BLDG
Customer Name: MIDLANDS TECH
Address: 1260 LEXINGTON DR
City, St, ZIP: W COLUMBIA S.C 29170
Phone Number:

Project #:
Date: 6/18/2023
Time: 3;30 PM

Project/Site Deficiency Summary

Failure Type	Comments
No Deficiencies Found	

Device Deficiency Summary

Failed Device Type	Comments
PD - ZONE 5 - IN LIBRARY ENTRANCE RIGHT	STAND ALONE SD (2W-D)
PD - ZONE 4 - HALL BY RM 110	STAND ALONE SD (2W-D)

FIRE ALARM INSPECTION REPORT PER NFPA 72

Project/Site Information

Property Name:	MTC AIRPORT ACADEMIC BLDG	Project #:	
Customer Name:	MIDLANDS TECH	Date:	6/18/2023
Address:	1260 LEXINGTON DR	Time:	3;30 PM
City, St, ZIP:	W COLUMBIA S.C 29170		
Phone Number:			

Project/Site Untested Summary

Device Type	Comments
No Devices Untested	

Device Untested Summary

Device Type	Comments

SYSTEM RECORD OF COMPLETION

Form Completion Date: 08/16/2023 Supplemental Pages Attached: 1

1. PROPERTY INFORMATION

Name of property: Midlands Tech Airport - Academic Bldg (Addendum to original ROC)

Address: 1260 Lexington Drive, West Columbia, SC 29170

Description of property: College

Name of property representative:

Address:

Phone: Fax: E-mail:

2. INSTALLATION, SERVICE, TESTING, AND MONITORING INFORMATION

Installation contractor: TriTek Fire & Security, LLC

Address: 6 Woodcross Dr. Columbia, SC 29212

Phone: 803-407-0747 Fax: 803-407-0779 E-mail: info@tritekfire.com

Service organization:

Address:

Phone: Fax: E-mail:

Testing organization: TriTek Fire & Security, LLC

Address: 6 Woodcross Dr. Columbia, SC 29212

Phone: 803-407-0747 Fax: 803-407-0779 E-mail: info@tritekfire.com

Effective date for test and inspection contract:

Monitoring organization: Security Central

Address:

Phone: 1-800-438-4171 Fax: E-mail:

Account number: 2200 - HY Phone line 1: Phone line 2:

Means of transmission: Cellular

Entity to which alarms are retransmitted: Lexington FD Dispatch Phone:

3. DOCUMENTATION

By FACP

On-site location of the required record documents and site-specific software:

4. DESCRIPTION OF SYSTEM OR SERVICE

This is a: ☐ New system ☑ Modification to existing system Permit number:

NFPA 72 edition: 2016

4.1 Control Unit

Manufacturer: Notifier Model number: NFS 320

4.2 Software and Firmware

Firmware revision number: V 21.01

4.3 Alarm Verification

☑ This system does not incorporate alarm verification.

Number of devices subject to alarm verification: Alarm verification set for seconds

SYSTEM RECORD OF COMPLETION *(continued)*

5. SYSTEM POWER

5.1 Control Unit

5.1.1 Primary Power

Input voltage of control panel: 120VAC

Control panel amps: 6A

Overcurrent protection: Type: Circuit Breaker

Amps: 20A

Branch circuit disconnecting means location: 1LA

Number: 26

5.1.2 Secondary Power

Type of secondary power: Sealed Lead Acid Batteries

Location, if remote from the plant:

Calculated capacity of secondary power to drive the system:

In standby mode (hours): 24

In alarm mode (minutes): 5

5.2 Control Unit

☐ This system does not have power extender panels

☑ Power extender panels are listed on supplementary sheet A

6. CIRCUITS AND PATHWAYS

Pathway Type	Dual Media Pathway	Separate Pathway	Class	Survivability Level
Signaling Line	NA	NA	B	1
Device Power	NA	NA	NA	NA
Initiating Device	NA	NA	B	1
Notification Appliance	NA	NA	B	1
Other (specify):				

7. REMOTE ANNUNCIATORS

Type	Location
LCD2-80	Front Lobby

8. INITIATING DEVICES

Type	Quantity	Addressable or Conventional	Alarm or Supervisory	Sensing Technology
Manual Pull Stations	NA			
Smoke Detectors	NA			
Duct Smoke Detectors	NA			
Heat Detectors	NA			
Gas Detectors	NA			
Waterflow Switches	NA			
Tamper Switches	NA			

SYSTEM RECORD OF COMPLETION *(continued)*

9. NOTIFICATION APPLIANCES

Type	Quantity	Description
Audible	NA	
Visible	10	STROBE ONLY
Combination Audible and Visible	26	HORN / STROBE

10. SYSTEM CONTROL FUNCTIONS

Type	Quantity
Hold-Open Door Releasing Devices	NA
HVAC Shutdown	NA
Fire/Smoke Dampers	NA
Door Unlocking	NA
Elevator Recall	NA
Elevator Shunt Trip	NA

11. INTERCONNECTED SYSTEMS

☑ This system does not have interconnected systems.

☐ Interconnected systems are listed on supplementary sheet _____.

12. CERTIFICATION AND APPROVALS

12.1 System Installation Contractor

This system as specified herein has been installed according to all NFPA standards cited herein.

Signed: _____ Printed name: Ryan Butler Date: 08/16/2023

Organization: TriTek Fire & Security Title: Install Manager Phone: 803-407-0747

12.2 System Operational Test

This system as specified herein has tested according to all NFPA standards cited herein.

Signed: _____ Printed name: Ryan Butler Date: 08/16/2023

Organization: TriTek Fire & Security Title: Install Manager Phone: 803-407-0747

12.3 Acceptance Test

Date and time of acceptance test: _____

Installing contractor representative: _____

Testing contractor representative: _____

Property representative: _____

AHJ representative: _____

NOTIFICATION APPLIANCE POWER PANEL SUPPLEMENTARY RECORD OF COMPLETION

Form Completion Date: 08/16/2023 Number of Supplemental Pages Attached: 1

1. PROPERTY INFORMATION

Name of property: Midlands Tech - Airport Academic Bldg (Addendum to original ROC)

Address: 1260 Lexington Drive, West Columbia, SC 29170

2. NOTIFICATION APPLIANCE POWER EXTENDER PANELS

Make and Model	Location	Area Served	Power Source
Wheelock PS-8-LP	Electric Room 162	Both Buildings	Panel 1LA Brkr 26
Wheelock PS-8-LP	Electric Room 164	Dental Area	Transformer

See Main System Record of Completion for additional information, certifications, and approvals.

SYSTEM RECORD OF COMPLETION

Form Completion Date: 06/15/2023 Supplemental Pages Attached: 1

1. PROPERTY INFORMATION

Name of property: Midlands Tech Airport - Academic Bldg

Address: 1260 Lexington Drive, West Columbia, SC 29170

Description of property: College

Name of property representative:

Address:

Phone: Fax: E-mail:

2. INSTALLATION, SERVICE, TESTING, AND MONITORING INFORMATION

Installation contractor: TriTek Fire & Security, LLC

Address: 6 Woodcross Dr. Columbia, SC 29212

Phone: 803-407-0747 Fax: 803-407-0779 E-mail: info@tritekfire.com

Service organization:

Address:

Phone: Fax: E-mail:

Testing organization: TriTek Fire & Security, LLC

Address: 6 Woodcross Dr. Columbia, SC 29212

Phone: 803-407-0747 Fax: 803-407-0779 E-mail: info@tritekfire.com

Effective date for test and inspection contract:

Monitoring organization: Security Central

Address:

Phone: 1-800-438-4171 Fax: E-mail:

Account number: 2200 - HY Phone line 1: Phone line 2:

Means of transmission: Cellular

Entity to which alarms are retransmitted: Lexington FD Phone:

3. DOCUMENTATION

By FACP

On-site location of the required record documents and site-specific software:

4. DESCRIPTION OF SYSTEM OR SERVICE

This is a: ☐ New system ☑ Modification to existing system Permit number:

NFPA 72 edition: 2016

4.1 Control Unit

Manufacturer: Notifier Model number: NFS 320

4.2 Software and Firmware

Firmware revision number: V 21.01

4.3 Alarm Verification

☑ This system does not incorporate alarm verification.

Number of devices subject to alarm verification: Alarm verification set for _____ seconds

SYSTEM RECORD OF COMPLETION *(continued)*

5. SYSTEM POWER

5.1 Control Unit

5.1.1 Primary Power

Input voltage of control panel: 120VAC

Control panel amps: 6A

Overcurrent protection: Type: Circuit Breaker

Amps: 20A

Branch circuit disconnecting means location: 1LA

Number: 26

5.1.2 Secondary Power

Type of secondary power: Sealed Lead Acid Batteries

Location, if remote from the plant:

Calculated capacity of secondary power to drive the system:

In standby mode (hours): 24

In alarm mode (minutes): 5

5.2 Control Unit

☐ This system does not have power extender panels

☑ Power extender panels are listed on supplementary sheet A

6. CIRCUITS AND PATHWAYS

Pathway Type	Dual Media Pathway	Separate Pathway	Class	Survivability Level
Signaling Line	NA	NA	B	1
Device Power	NA	NA	NA	NA
Initiating Device	NA	NA	B	1
Notification Appliance	NA	NA	B	1
Other (specify):				

7. REMOTE ANNUNCIATORS

Type	Location
LCD2-80	Front Lobby

8. INITIATING DEVICES

Type	Quantity	Addressable or Conventional	Alarm or Supervisory	Sensing Technology
Manual Pull Stations	14	CONVENTIONAL	ALARM	
Smoke Detectors	49	ADDRESSABLE	ALARM	PHOTO
Duct Smoke Detectors	18	ADDRESSABLE	SUPERVISORY	PHOTO
Heat Detectors	9	CONVENTIONAL	ALARM	FIXED
Gas Detectors	NA			
Waterflow Switches	NA			
Tamper Switches	NA			

SYSTEM RECORD OF COMPLETION *(continued)*

9. NOTIFICATION APPLIANCES

Type	Quantity	Description
Audible	NA	
Visible	5	STROBE ONLY
Combination Audible and Visible	23	HORN / STROBE

10. SYSTEM CONTROL FUNCTIONS

Type	Quantity
Hold-Open Door Releasing Devices	6
HVAC Shutdown	6
Fire/Smoke Dampers	1
Door Unlocking	NA
Elevator Recall	4
Elevator Shunt Trip	NA

11. INTERCONNECTED SYSTEMS

☑ This system does not have interconnected systems.

☐ Interconnected systems are listed on supplementary sheet _____ .

12. CERTIFICATION AND APPROVALS

12.1 System Installation Contractor

This system as specified herein has been installed according to all NFPA standards cited herein.

Signed: _____ Printed name: Ryan Butler Date: 06/15/2023

Organization: TriTek Fire & Security Title: Install Manager Phone: 803-407-0747

12.2 System Operational Test

This system as specified herein has tested according to all NFPA standards cited herein.

Signed: _____ Printed name: Ryan Butler Date: 06/15/2023

Organization: TriTek Fire & Security Title: Install Manager Phone: 803-407-0747

12.3 Acceptance Test

Date and time of acceptance test: _____

Installing contractor representative: _____

Testing contractor representative: _____

Property representative: _____

AHJ representative: _____

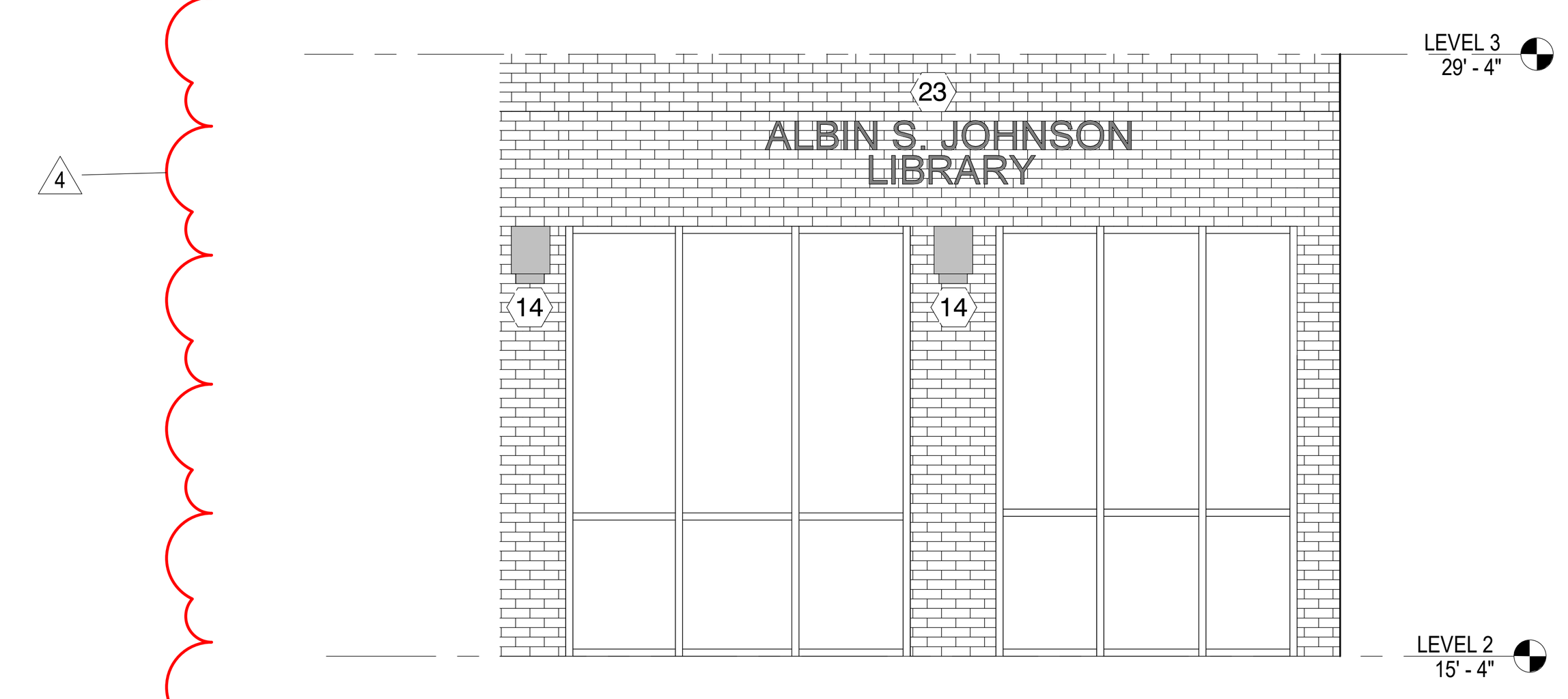
mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA
DAVID R. MOORE, II
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
McMILLAN PAZDAN SMITH, LLC
GREENVILLE, SC
100573
REGISTERED ARCHITECTS



2 A031 **EXTERIOR ELEVATION - NORTH DEMOLITION**
1/4" = 1'-0"

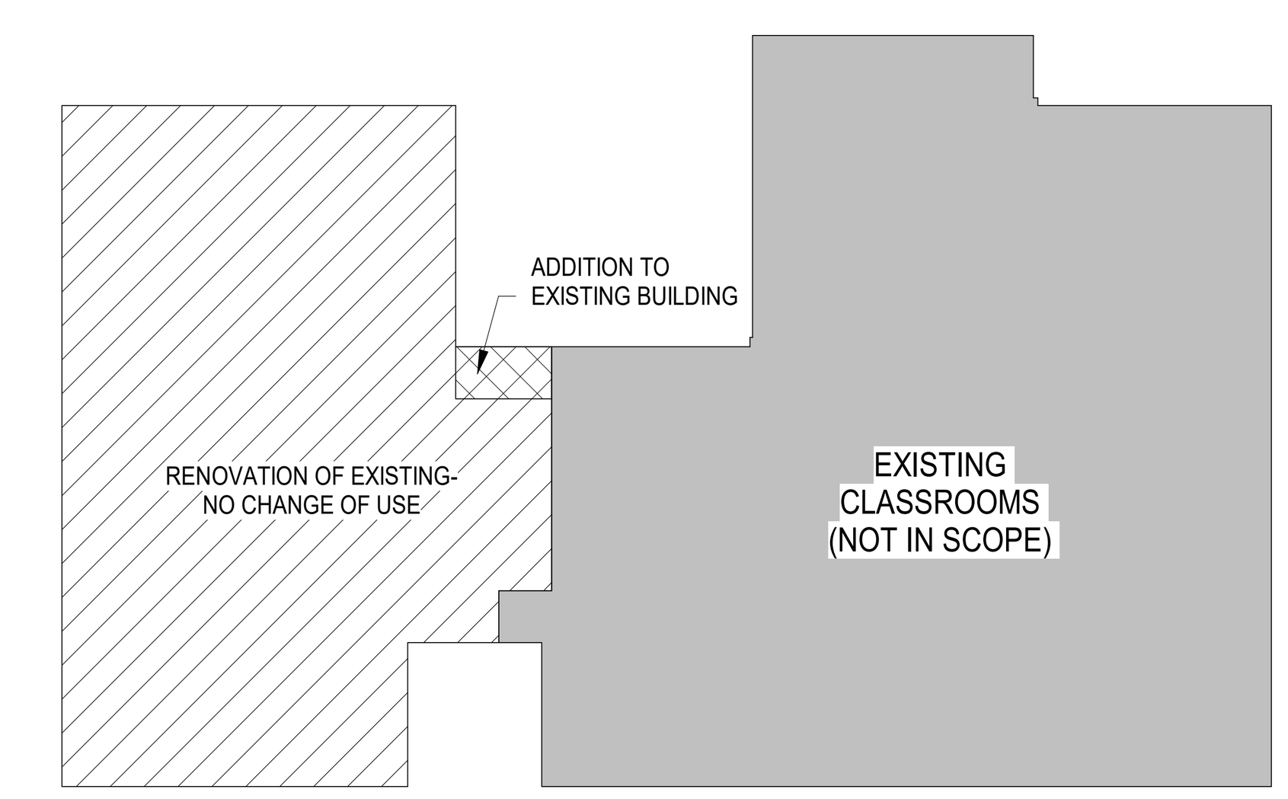
DEMO FLOOR PLAN LEGEND

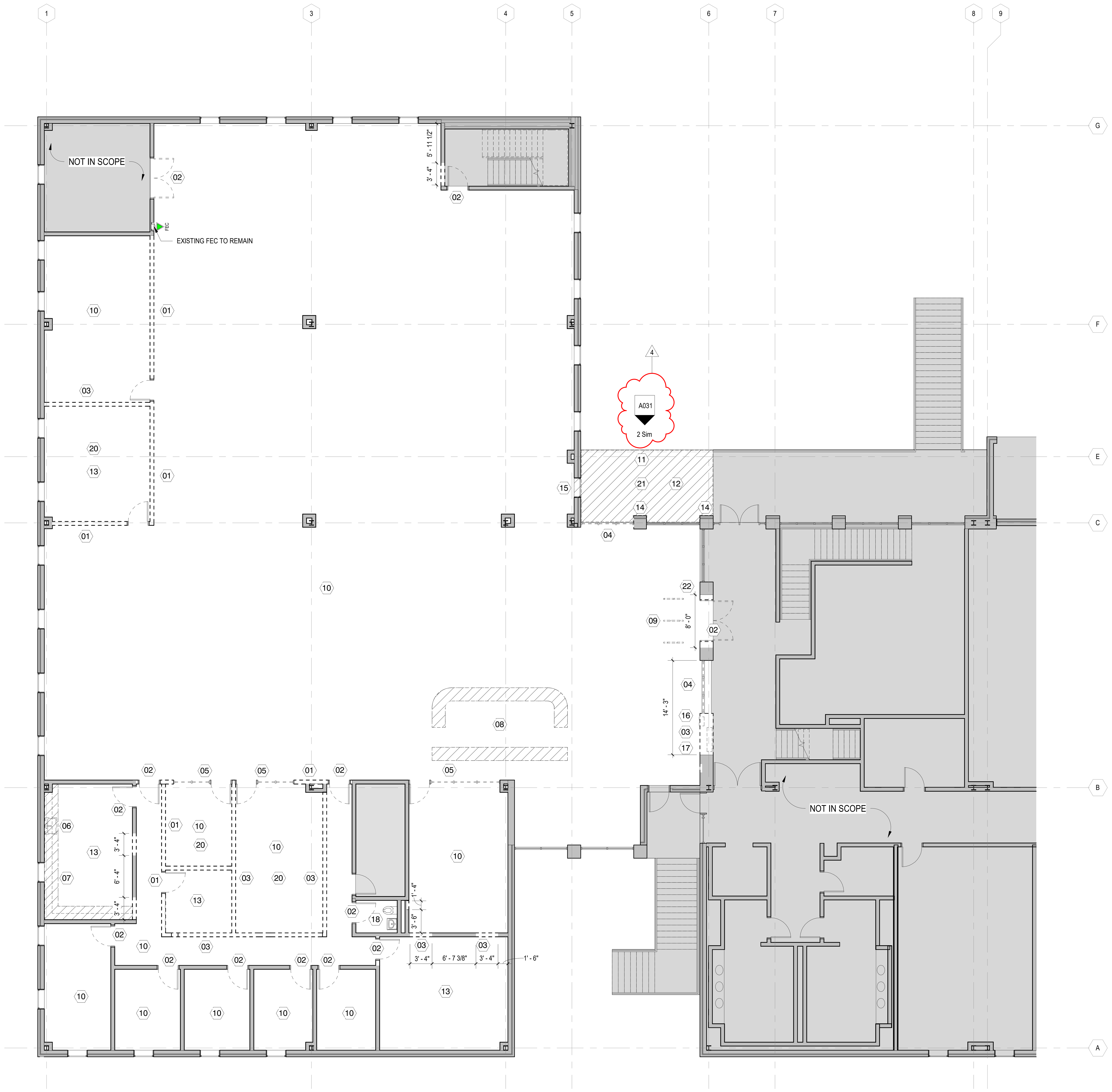
- NOT IN SCOPE
- DOOR TO BE REMOVED
- WALL TO BE REMOVED
- DEMOLISHED

DEMOLITION NOTES

01. REMOVE EXISTING METAL STUD FRAMING, GYPSUM BOARD, DOORS, FRAMES, HARDWARE, ASSOCIATED BLOCKING.
02. REMOVE EXISTING DOOR, FRAME, HARDWARE, AND ASSOCIATED BLOCKING.
03. REMOVE EXISTING METAL STUD FRAMING AND GYPSUM BOARD.
04. REMOVE EXISTING ALUMINUM STOREFRONT FRAMING AND GLAZING.
05. REMOVE EXISTING ALUMINUM STOREFRONT FRAMING, GLAZING AND DOOR.
06. REMOVE EXISTING SINK AND ASSOCIATED PLUMBING.
07. REMOVE EXISTING WOOD BASE CABINETS, WALL CABINETS, COUNTERTOPS, AND WALL BRACKETS.
08. REMOVE EXISTING FRONTDESK AND ASSOCIATED POWER, SEE ELECTRICAL FOR ADDITIONAL DEMOLITION ITEMS.
09. REMOVE EXISTING SECURITY GATE AND ASSOCIATED POWER, SEE ELECTRICAL FOR ADDITIONAL DEMOLITION ITEMS. TURN OVER THE SECURITY GATE TO OWNER.
10. REMOVE EXISTING CARPET, ADHESIVE, AND WALL BASE.
11. REMOVE EXISTING RAILING.
12. REMOVE EXISTING PLASTER SOFFIT AND TWO CEILING LIGHTS AT FIRST FLOOR BELOW NEW STUDY ROOM.
13. REMOVE EXISTING VCT, ADHESIVE, AND WALL BASE.
14. REMOVE EXISTING LIGHT FIXTURES ON EXTERIOR WALL.
15. REMOVE EXISTING WINDOW & FRAME.
16. MOVE EXISTING FEC - PRESERVE FOR RE-INSTALLATION
17. REMOVE EXISTING RECESSED DISPLAY AND TURN IT TO OWNER.
18. REMOVE EXISTING TOLIET, SINK, TOILET ACCESSORIES, AND WALL BASE.
19. SEE STRUCTURE, FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL.
20. REMOVE MARKERBOARDS AND TURN OVER TO OWNER.
21. REMOVE LOOSE TOPPING SLAB AND ORGANIC MATERIAL FROM SLAB JOISTS.
22. MOVE ADA DOOR OPERATOR SWITCH FOR RE-INSTALLATION, REF ELECTRICAL FOR POWER DETAILS.
23. REMOVE EXISTING EXTERIOR SIGNAGE AND ALL ASSOCIATED MOUNTING HARDWARE. PATCH AND REPAIR ALL HOLES TO MATCH ADJACENT SURFACE.

KEY PLAN





1 A031 **LEVEL 2 - DEMOLITION PLAN**
1/8" = 1'-0"

PROJECT NORTH

Graphic Scale: 0' - 0 1/8"inch = 1'-0"
0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

MIDLANDS TECHNICAL COLLEGE
AIRPORT LEARNING RESOURCE CENTER IMPROVEMENTS
H59-6162-CB
1260 Lexington Dr, West Columbia, SC 29170

ISSUE DATE:	11-21-2025
PHASE:	CONSTRUCTION DOCUMENT

SHEET ISSUE:

NO.	DATE	DESCRIPTION
1	08-29-2025	60% DESIGN DEVELOPMENT
2	09-12-2025	100% DESIGN DEVELOPMENT
3	11-21-2025	CONSTRUCTION DOCUMENT
4	02-26-2026	ADDEDNDUM 01

PRINCIPAL IN CHARGE: DM
PROJECT ARCHITECT: RF
DRAWN BY: XG

SHEET TITLE:
LEVEL 2 - DEMOLITION PLAN

SHEET NO. A031
PROJ. NO. 024096.00

1 A111 **FLOOR PLAN - ANNOTATION PLAN**
1/8" = 1'-0"

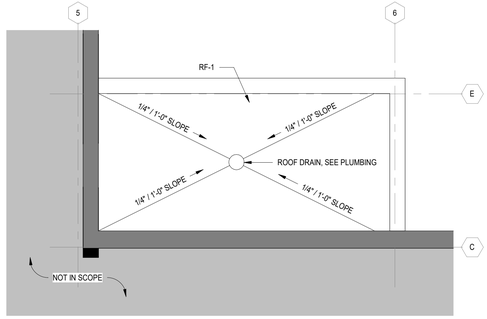
PROJECT NORTH

Graphic Scale: 0' - 0 1/8"inch = 1'-0"
0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

ANNOTATION PLAN NOTES

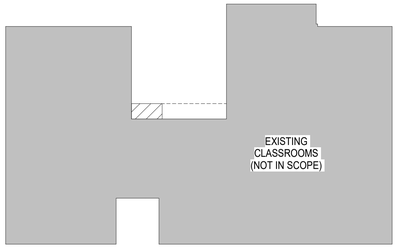
4

01. SECURITY GATES - PROVIDED AND INSTALLED BY OWENER.
02. PROVIDE TOPPING SLAB PATCH FROM SECTIONS REMOVED IN DEMOLITION SCOPE - LIGHT WEIGHT FLOOR FILLER SHOULD BE INSTALLED TO LEVEL FLOOR PRIOR TO FINISH FLOORING INSTALLATION.
03. PROVIDE PATCH AT DEMOLISHED AREA AND MAINTAIN 1-HOUR FIRE-RATED WALL.
04. RELOCATE ADA DOOR OPERATOR SWITCH TO NEW DOOR. REF ELECTRICAL.

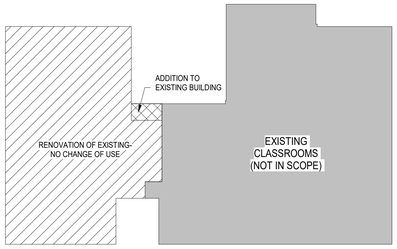


2 A111 **STUDY ROOM ROOF PLAN**
1/4" = 1'-0"

KEY PLAN ROOF



KEY PLAN



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA — DAVID R. MOORE, II — GREENVILLE, SC — #26643 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — McMILLAN PAZDAN SMITH, LLC — GREENVILLE, SC — 100573 — REGISTERED ARCHITECTS

MIDLANDS TECHNICAL COLLEGE
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PRINCIPAL IN CHARGE: DM
PROJECT ARCHITECT: RF
DRAWN BY: Author

SHEET TITLE:
LEVEL 2 - ANNOTATION PLAN

SHEET NO. A111
PROJ. NO. 024096.00

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

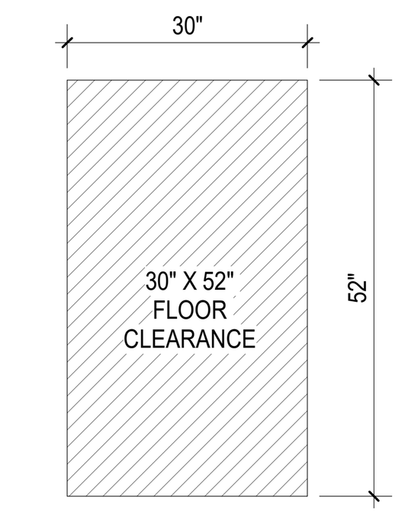
STATE OF SOUTH CAROLINA REGISTERED ARCHITECT DAVID R. MOORE, II GREENVILLE, SC

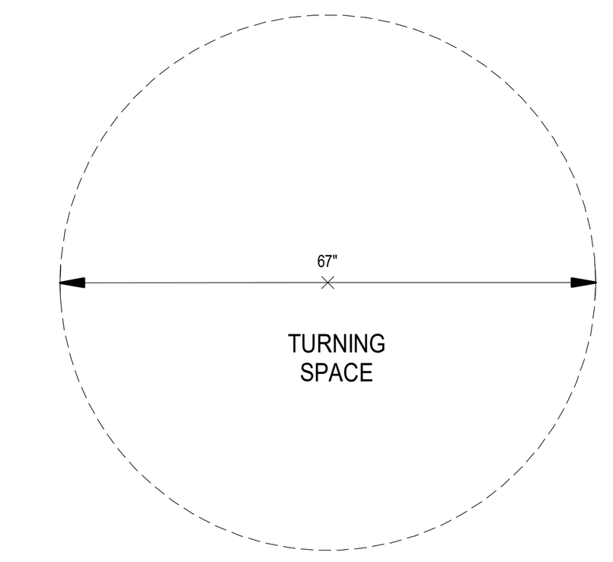
STATE OF SOUTH CAROLINA McMILLAN PAZDAN SMITH, LLC GREENVILLE, SC 100573 REGISTERED ARCHITECTS

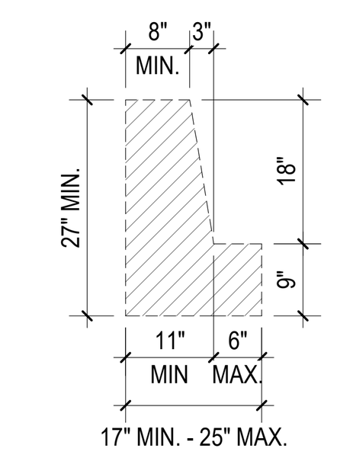
GENERAL NOTES

1. TOILET 206 WALL FINISH AND FLOOR FINISH REF A112 & A113 & MATERIAL SCHEDULE FOR DETAILS

LEGEND

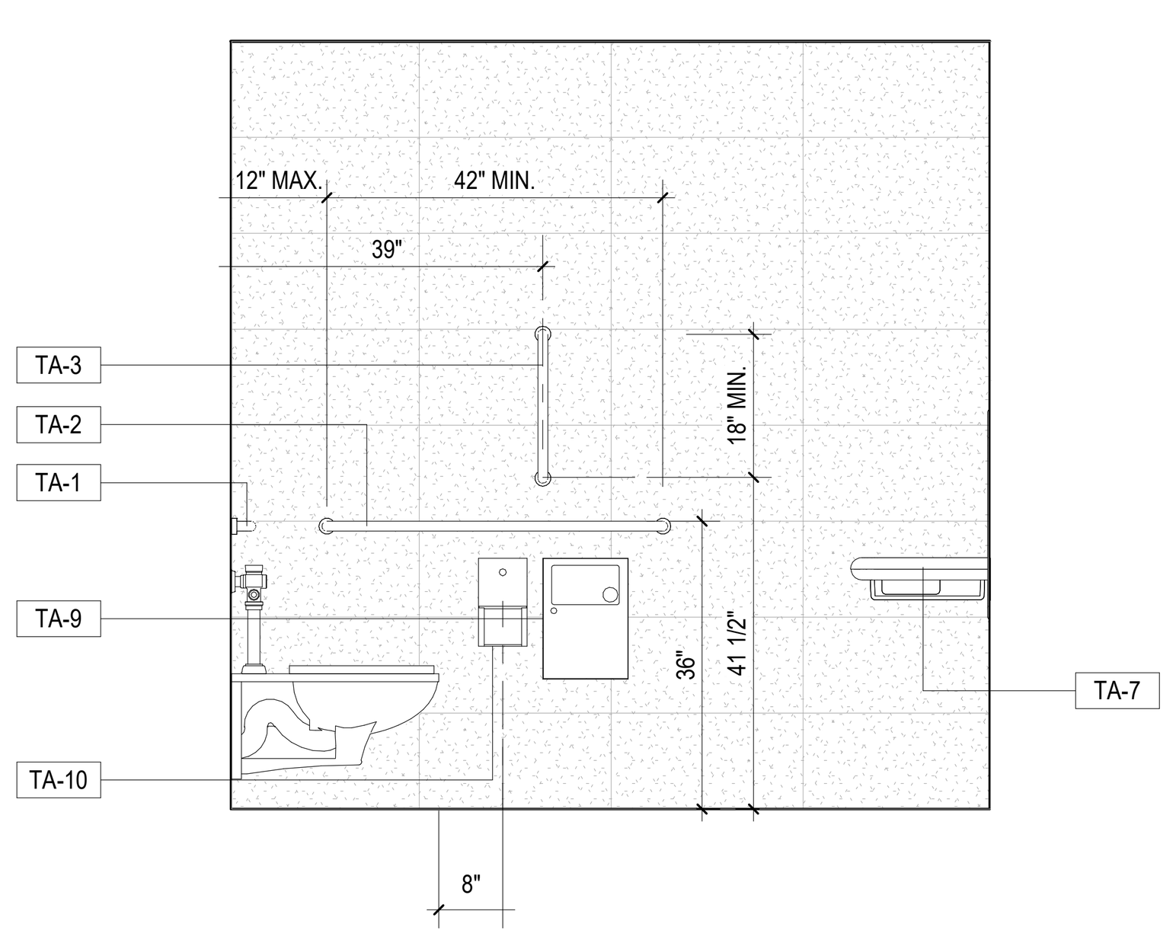




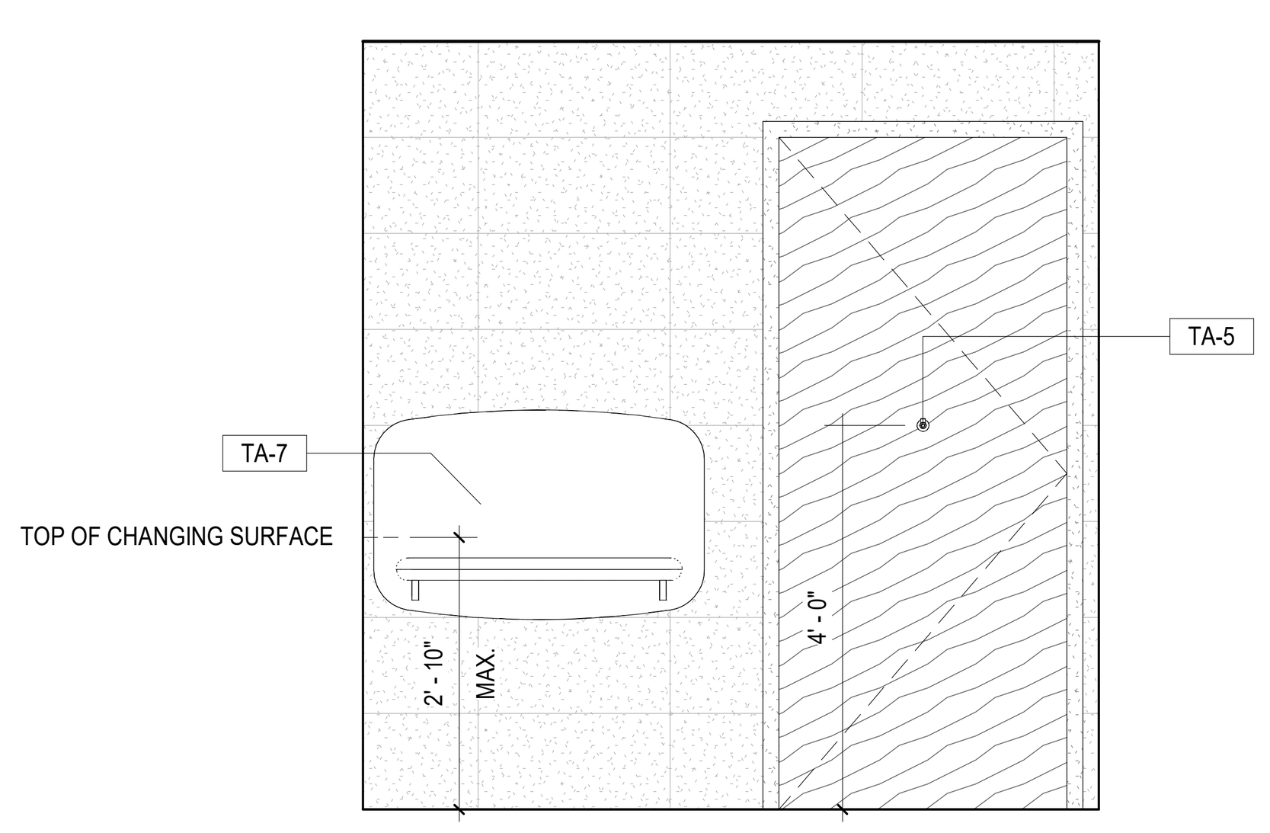


TOILET ACCESSORIES

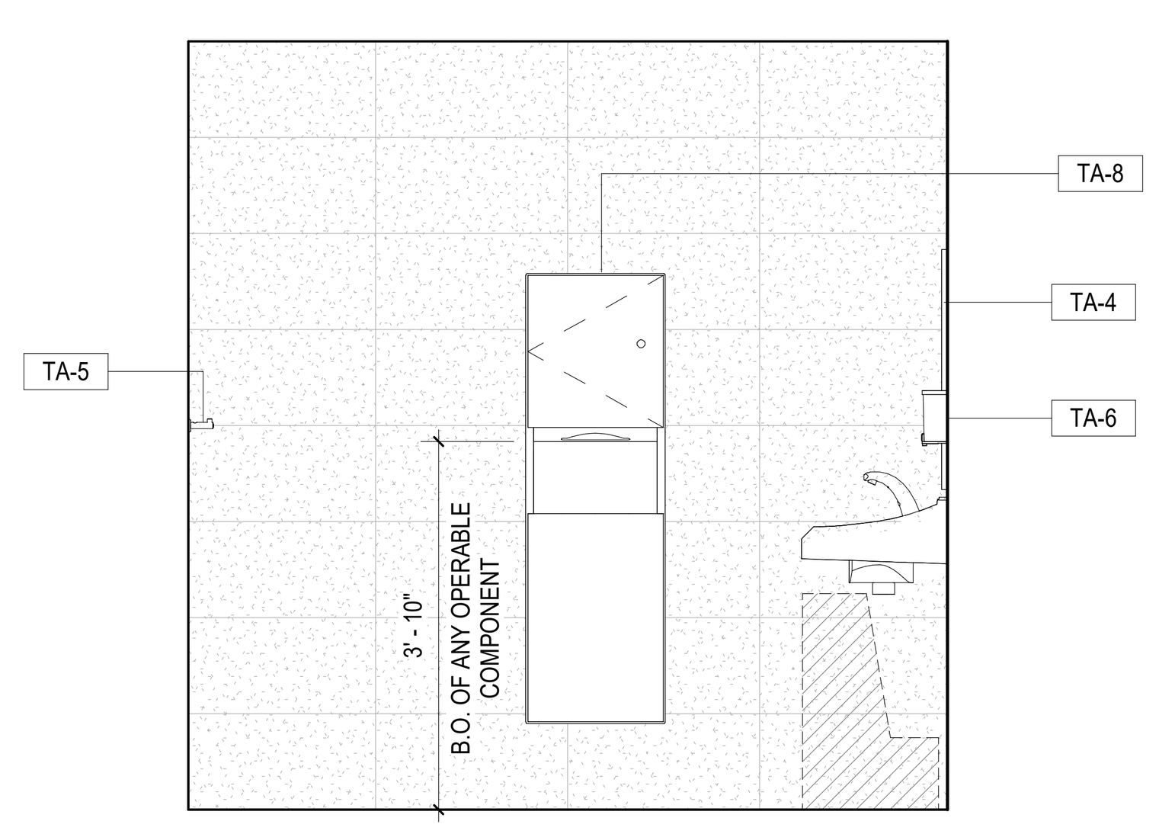
Mark	ITEM	MOUNTING HEIGHT	MFG.	MODEL NO.
TA-1	36" STAINLESS STL GRAB BAR w/ SATIN FINISH (HORIZONTALLY MOUNTED)	36" AFF TO TOP OF GRAB SURFACE	BOBRICK	B-5806x36
TA-2	42" STAINLESS STL GRAB BAR w/ SATIN FINISH (HORIZONTALLY MOUNTED)	36" AFF TO TOP OF GRAB SURFACE	BOBRICK	B-5806x42
TA-3	18" STAINLESS STL GRAB BAR w/ SATIN FINISH (VERTICALLY MOUNTED)	41 1/2" AFF TO CENTERLINE OF BOTTOM HORIZONTAL	BOBRICK	B-5806x18
TA-4	GLASS MIRROR W/ STAINLESS STL TRIM	40" AFF TO BOTTOM OF REFLECTIVE SURFACE	BOBRICK	B-290 1830
TA-5	COAT HOOK WITH BUMBER	48" AFF TO TOP OF SURFACE	BOBRICK	B-9541
TA-6	WALL MOUNTED SOAP DISPENSER	46" AFF TO TOP OF UNIT	OFCI	OFCI
TA-7	RECESS-MOUNTED BABY CHANGING STATION	34" AFF TO TOP CHANGING SURFACE	BRADLEY	962
TA-8	RECESSED COMBINATION TOWEL AND WASTE UNIT	10" AFF TO BOTTOM OF UNIT SURFACE	BOBRICK	B-43944
TA-9	SANITARY NAPKIN DISPOSAL	30" AFF TO TOP OF UNIT	BOBRICK	B-254
TA-10	MULTI-ROLL TOILET TISSUE DISPENSER	30" AFF TO TOP OF UNIT	BOBRICK	B-2888



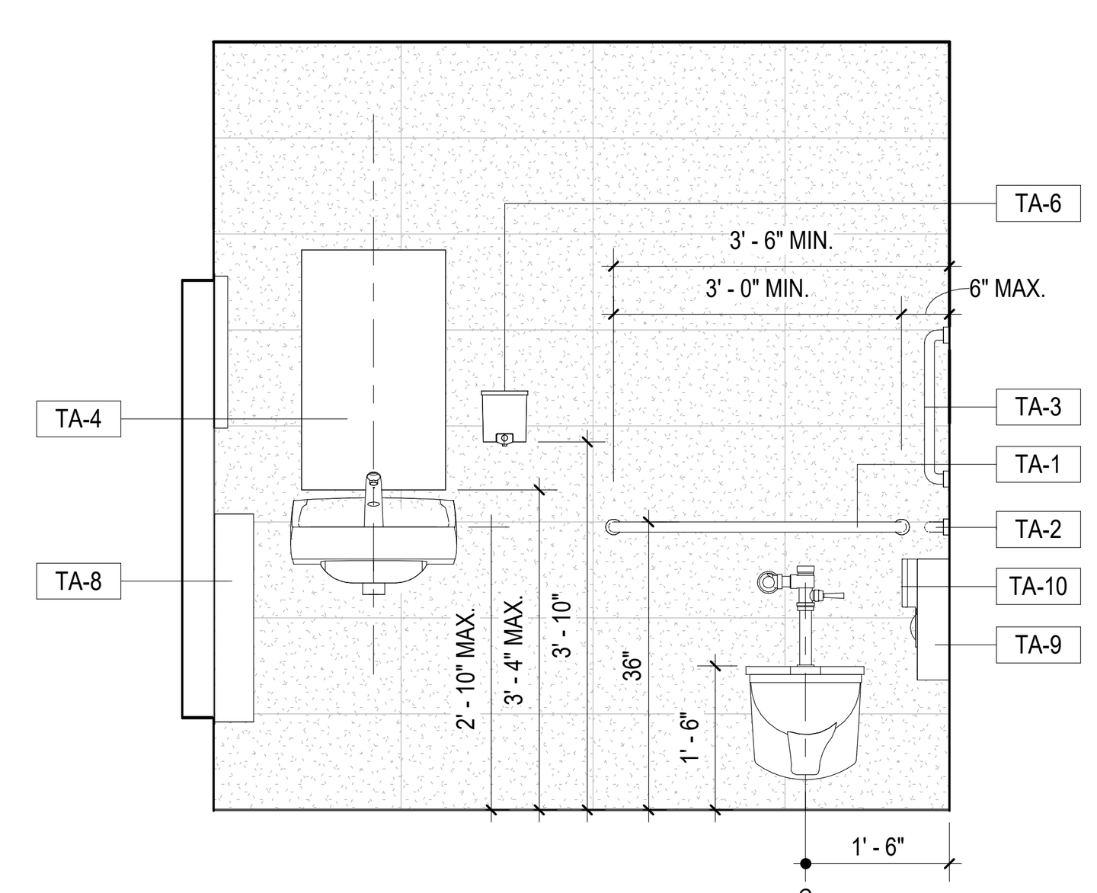
5 A410 **TLT 206 EAST ELEVATION** 1/2" = 1'-0"



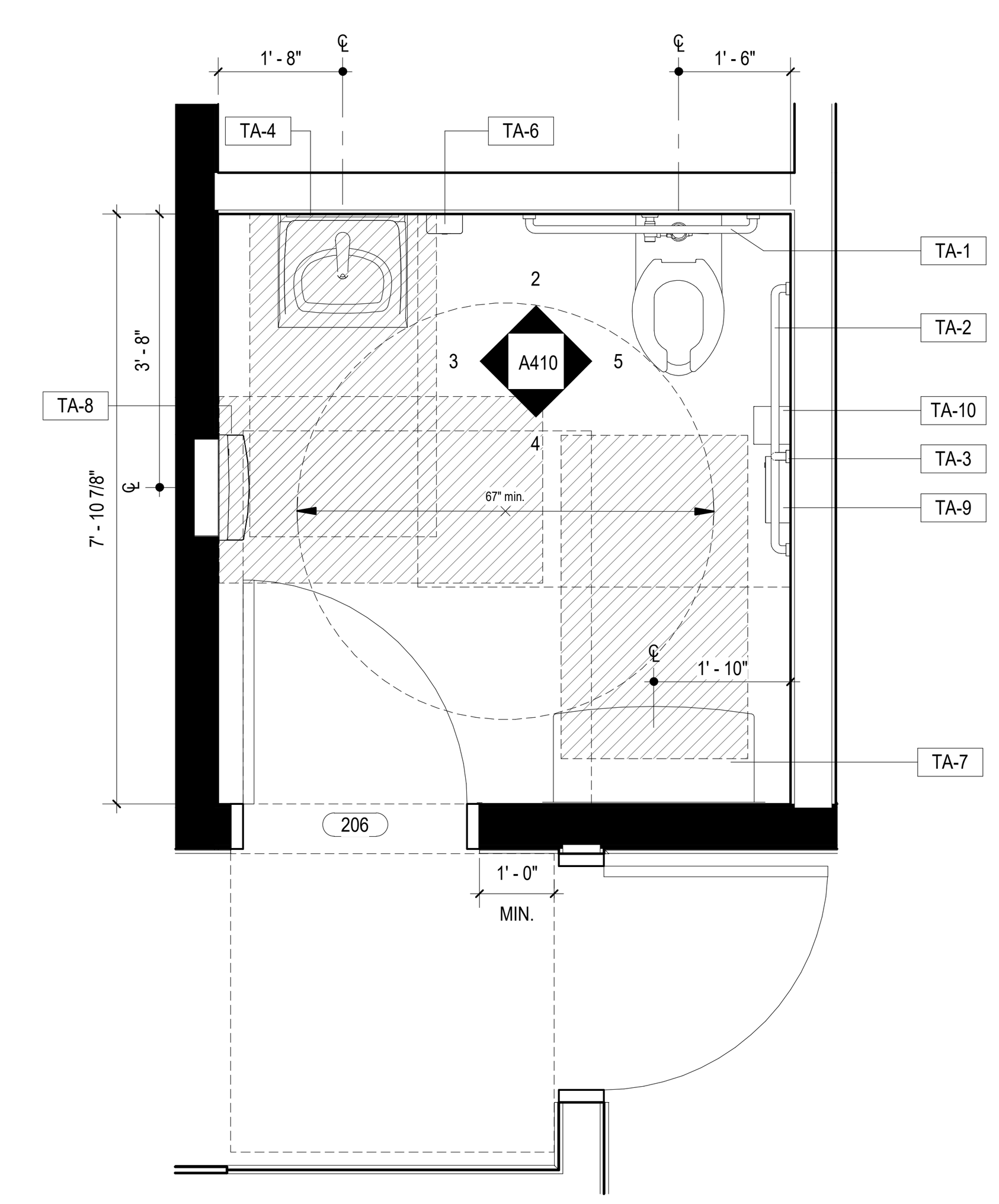
4 A410 **TLT 206 SOUTH ELEVATION** 1/2" = 1'-0"



3 A410 **TLT 206 WEST ELEVATION** 1/2" = 1'-0"



2 A410 **TLT 206 NORTH ELEVATION** 1/2" = 1'-0"



1 A410 **TLT 206 ENLARGED PLAN** 1/2" = 1'-0"

MIDLANDS TECHNICAL COLLEGE

AIRPORT LEARNING RESOURCE CENTER IMPROVEMENTS

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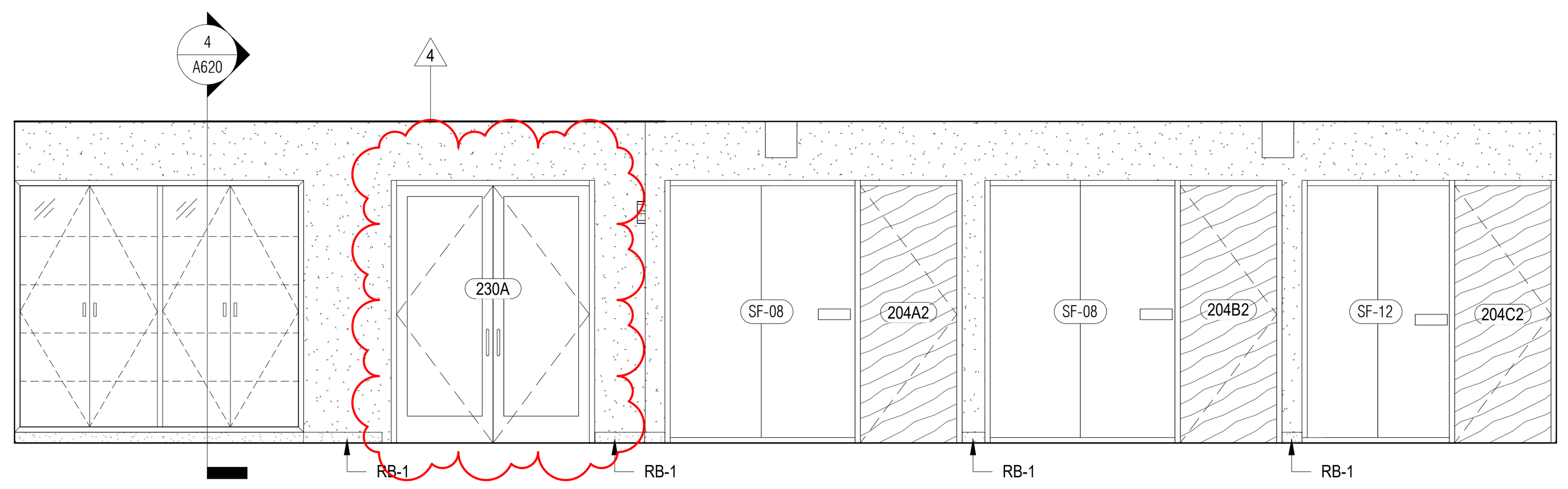
PRINCIPAL IN CHARGE: DM
PROJECT ARCHITECT: RF
DRAWN BY: Author

SHEET TITLE:

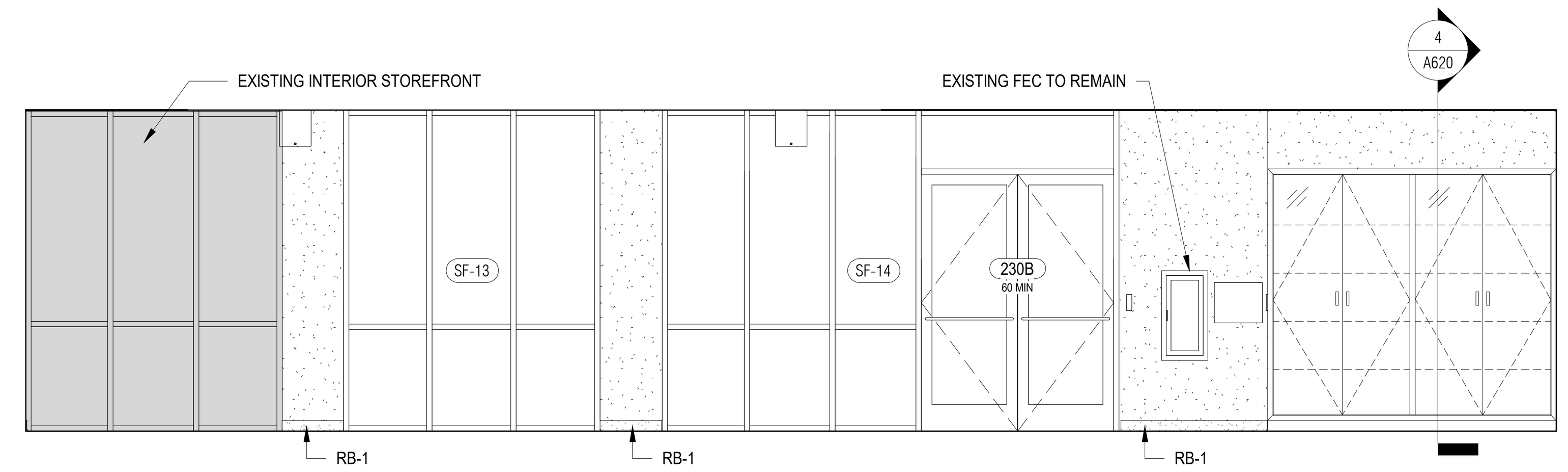
TOILET PLAN, ELEVATIONS & DETAILS

SHEET NO. A410

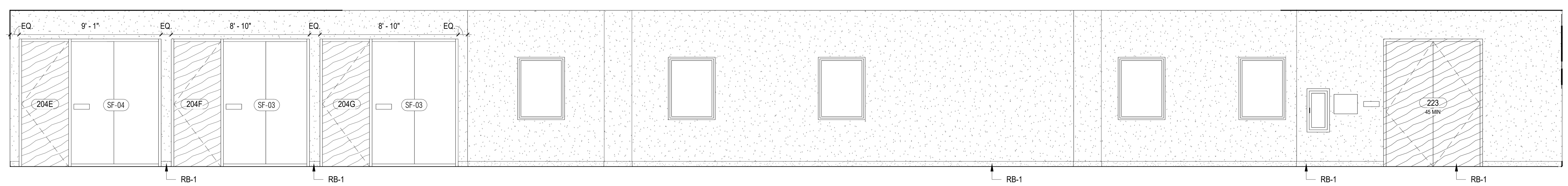
PROJ. NO. 024096.00



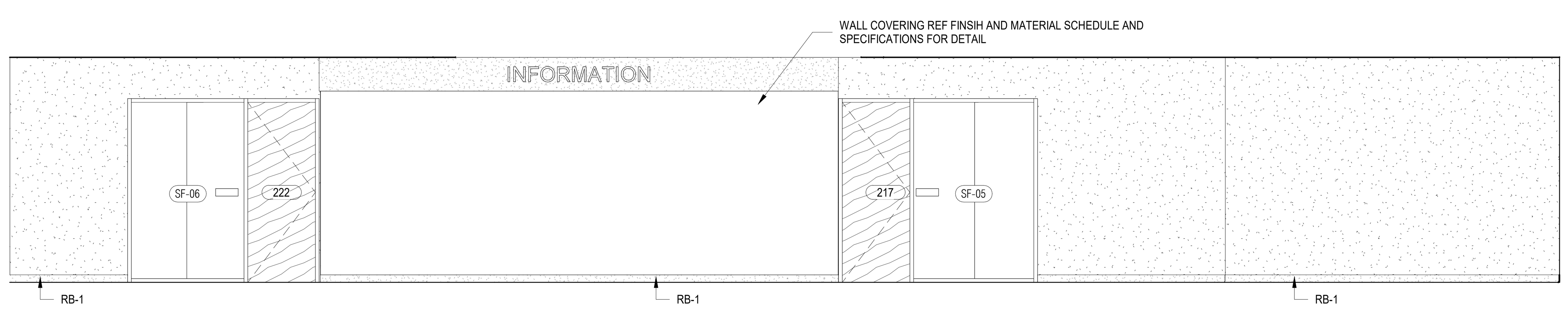
5 A420 **INTERIOR ELEVATION WEST**
1/4" = 1'-0"



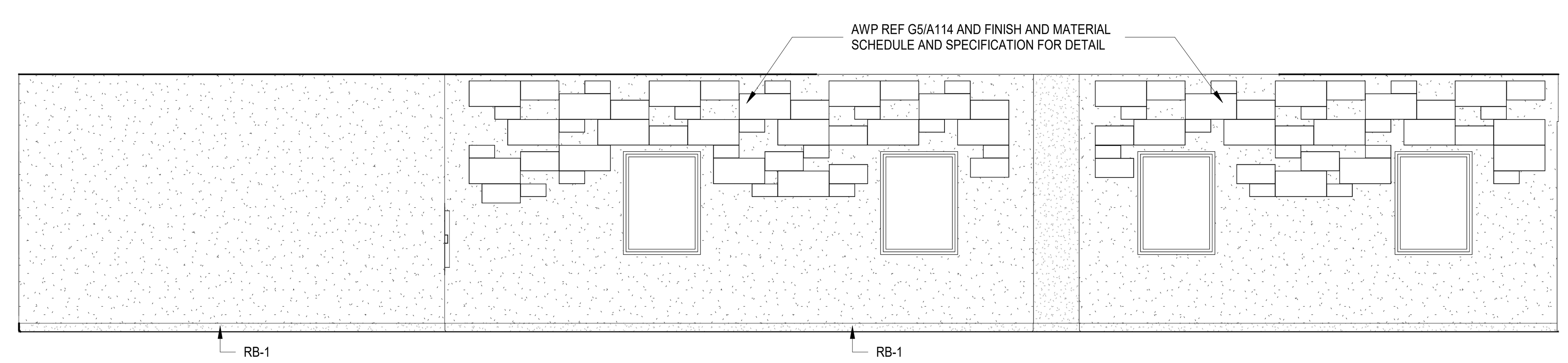
6 A420 **INTERIOR ELEVATION EAST**
1/4" = 1'-0"



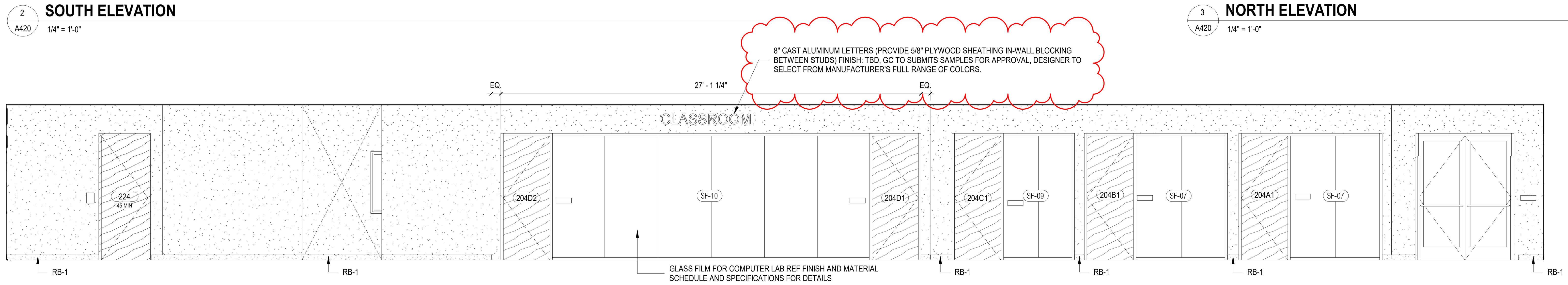
4 A420 **WEST ELEVATION**
1/4" = 1'-0"



2 A420 **SOUTH ELEVATION**
1/4" = 1'-0"



3 A420 **NORTH ELEVATION**
1/4" = 1'-0"



1 A420 **EAST ELEVATION**
1/4" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA — DAVID R. MOORE, II — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — McMILLAN PAZDAN SMITH, LLC — GREENVILLE, SC — 100573 — REGISTERED ARCHITECTS

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PRINCIPAL IN CHARGE: DM
PROJECT ARCHITECT: RF
DRAWN BY: Author

SHEET TITLE:

INTERIOR ELEVATIONS

SHEET NO. A420

PROJ. NO. 024096.00

D

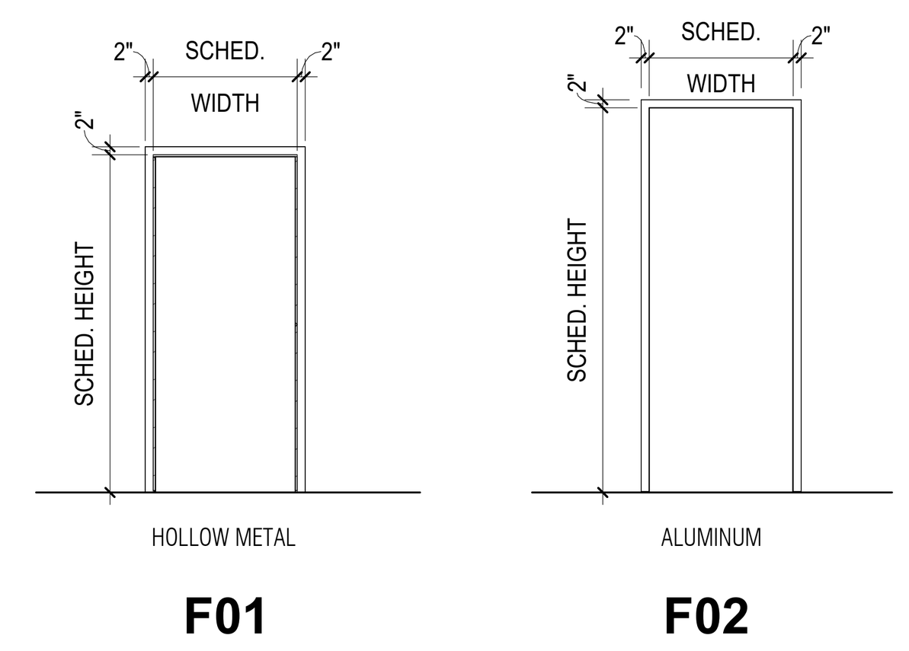
DOOR SCHEDULE - LEVEL 2

DOOR NO.	DOOR			RATING	PANEL			FRAME			DETAILS		SILL	REMARKS
	WIDTH	HEIGHT	THK.		TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB		
LEVEL 2														
204A1	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204A2	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204B1	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204B2	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S2	
204C1	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204C2	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S2	
204D1	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204D2	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204E	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204F	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204G	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204H	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
204J	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S1	
205	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S2	
206	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S4	
208	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S3	
209	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S1	
210	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S1	
211	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S1	
212	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S1	
213	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S1	
214	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S1	
215	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S1	
216	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S4	
217	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S4	
218	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S4	
219	3' - 0"	7' - 0"	0' - 1 3/4"		P01	WD	STN	F-01	HM	PNT	H1	J1	S4	
222	3' - 0"	8' - 0"	0' - 1 3/4"		P01	WD	STN	INT. STF	ALUM	PREFIN	H2	J2	S4	
223	6' - 0"	8' - 0"	0' - 1 3/4"	45 MIN	P03	WD	STN	F-01	HM	PNT	H1	J1	S5	
224	3' - 0"	8' - 0"	0' - 1 3/4"	45 MIN	P01	WD	STN	F-01	HM	PNT	H1	J1	S4	
230A	6' - 0"	8' - 0"	0' - 1 3/4"		P03	ALUM/GL	PREFIN	INT. STF	ALUM	PREFIN	-	-	S2	
230B	6' - 0"	8' - 0"	0' - 1 3/4"	60 MIN	P03	ALUM/GL	PREFIN	INT. STF	ALUM	PREFIN	-	-	S2	
231	3' - 0"	8' - 0"	0' - 1 3/4"		P02	ALUM/GL	PREFIN	INT. STF	ALUM	PREFIN	-	-	S2	REF. 16/A810 & 18/A810 FOR HEAD DETAIL AND JAMB

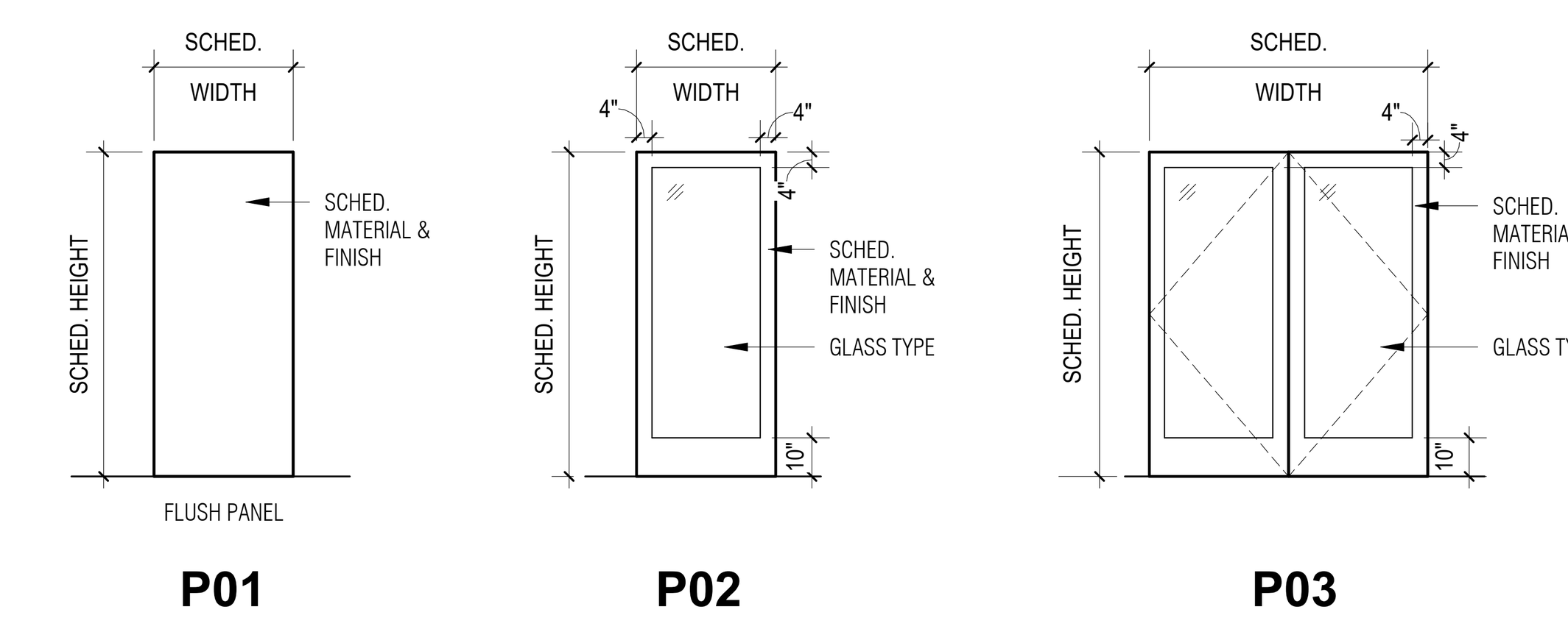
4

C

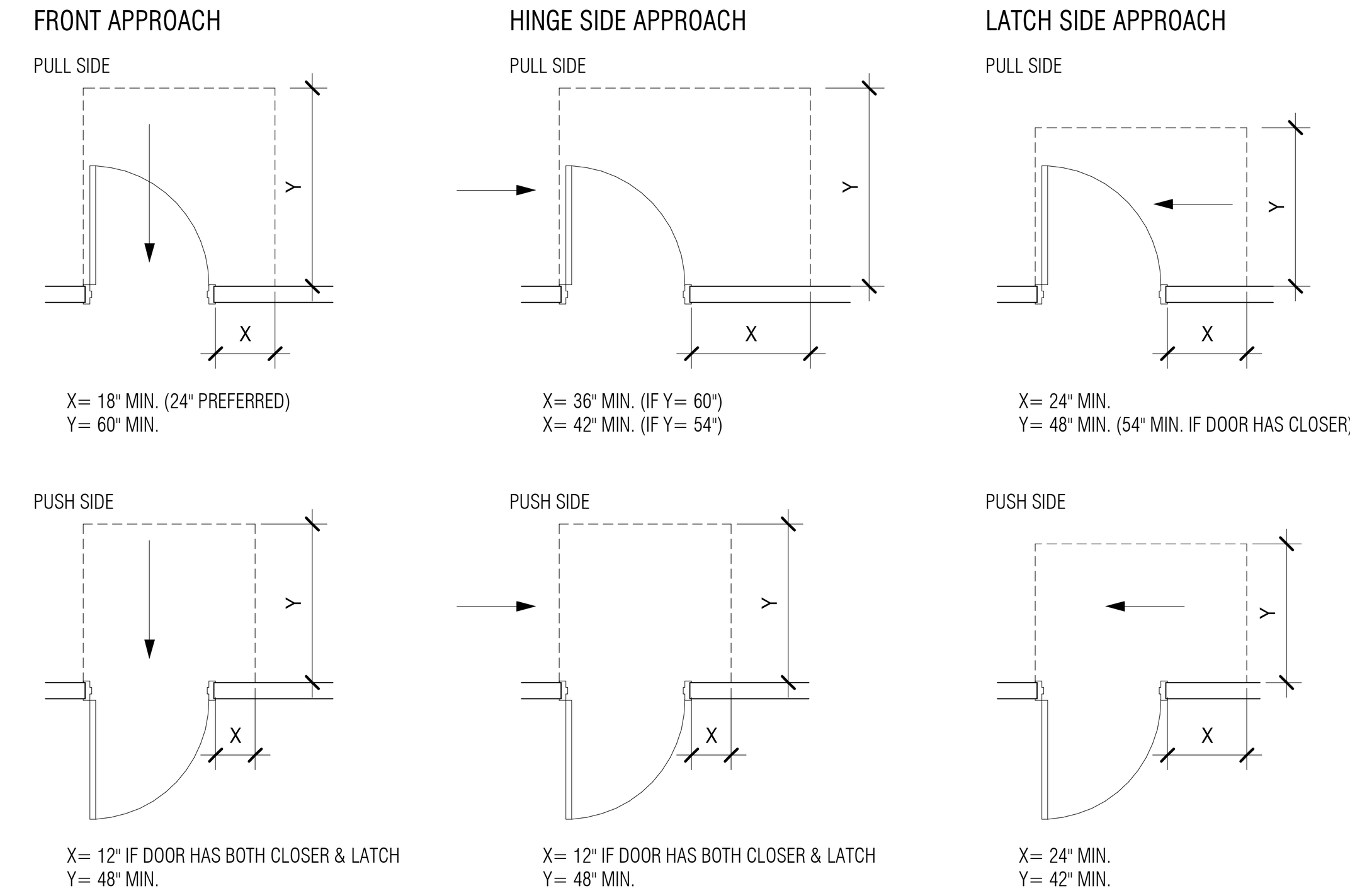
FRAME TYPE ELEVATIONS:



PANEL TYPE ELEVATIONS:



DOOR CONFIGURATION PLANS:



NOTES:

ERECT ALL DOOR FRAMES & ADJACENT WALLS TO CONFORM TO THE APPLICABLE PLAN CONFIGURATION. NOTIFY ARCHITECT OF AN CONFLICTS PRIOR TO INSTALLATION.

ALL DOORS SHALL COMPLY WITH THE CLEARANCES FOR APPROACHES INDICATED.

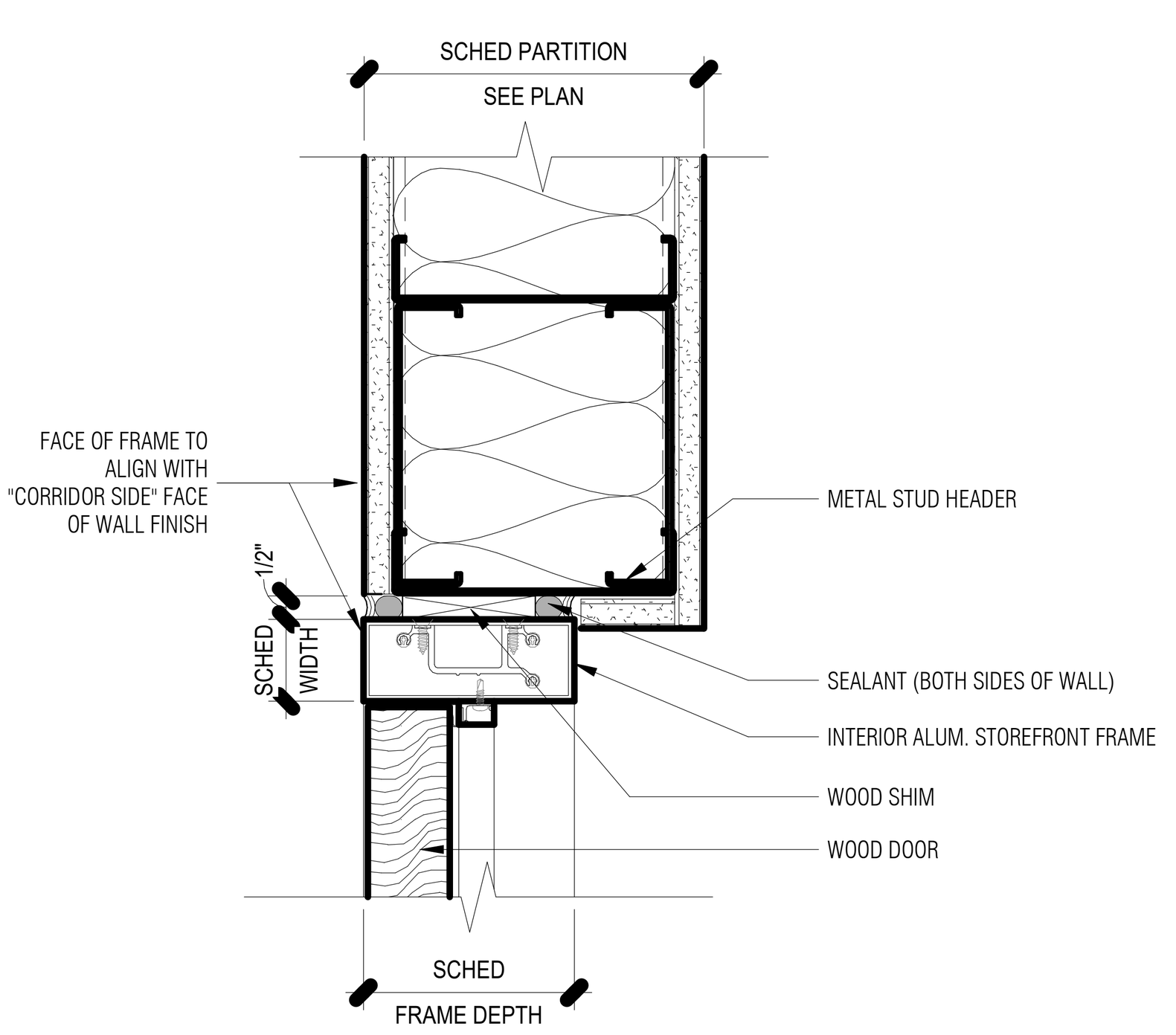
GLAZING SCHEDULE:

GL-01: 1" INSULATED CLEAR LOW "E" EXTERIOR GLAZING / FULLY TEMPERED
GL-02: 1/2" CLEAR INTERIOR GLAZING / FULLY TEMPERED
GL-03: 1/4" CLEAR INTERIOR / FULLY TEMPERED
GL-04: 60 MINUTE FIRE-RATED GLAZING

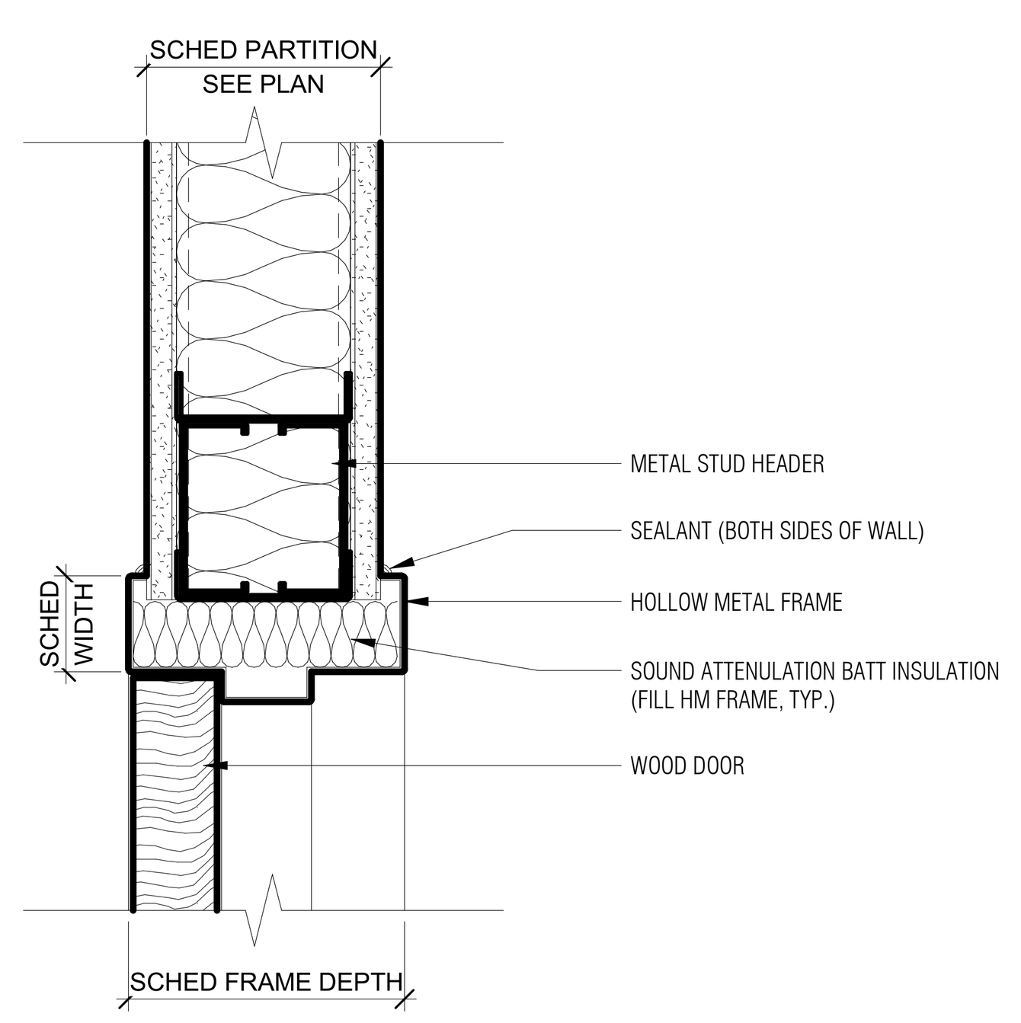
ABBREVIATIONS:

ALUM	ALUMINUM
ANOD	ANODIZED
EXT SF	EXTERIOR STOREFRONT
GL	GLASS
HM	HOLLOW METAL
INT SF	INTERIOR STOREFRONT
PREFIN	PREFINISHED
PNT	PAINT
STN	STAIN
WD	WOOD

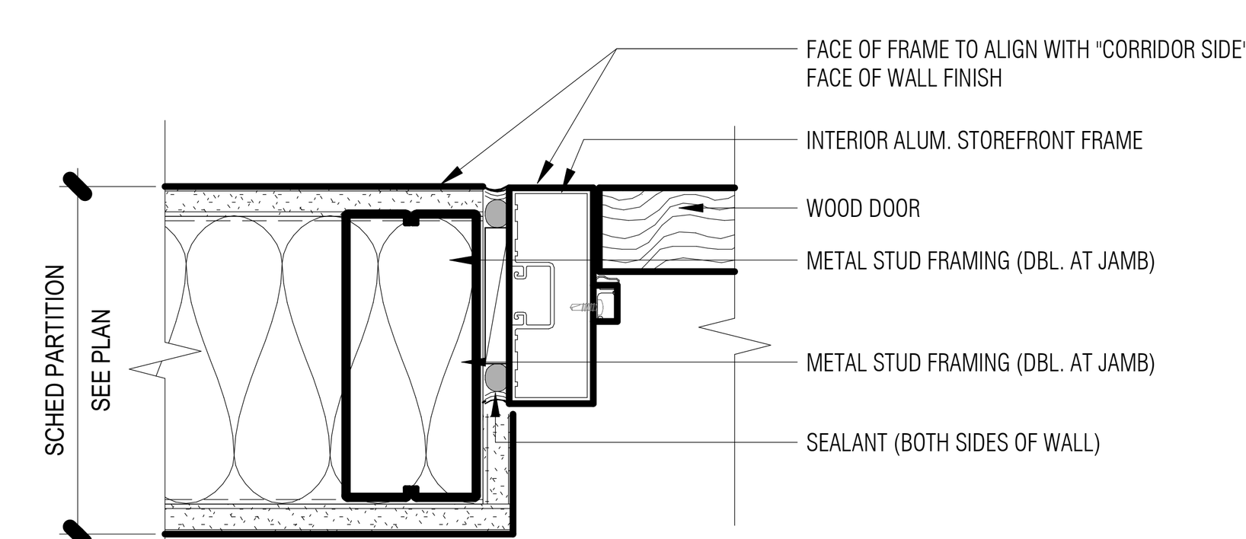
B



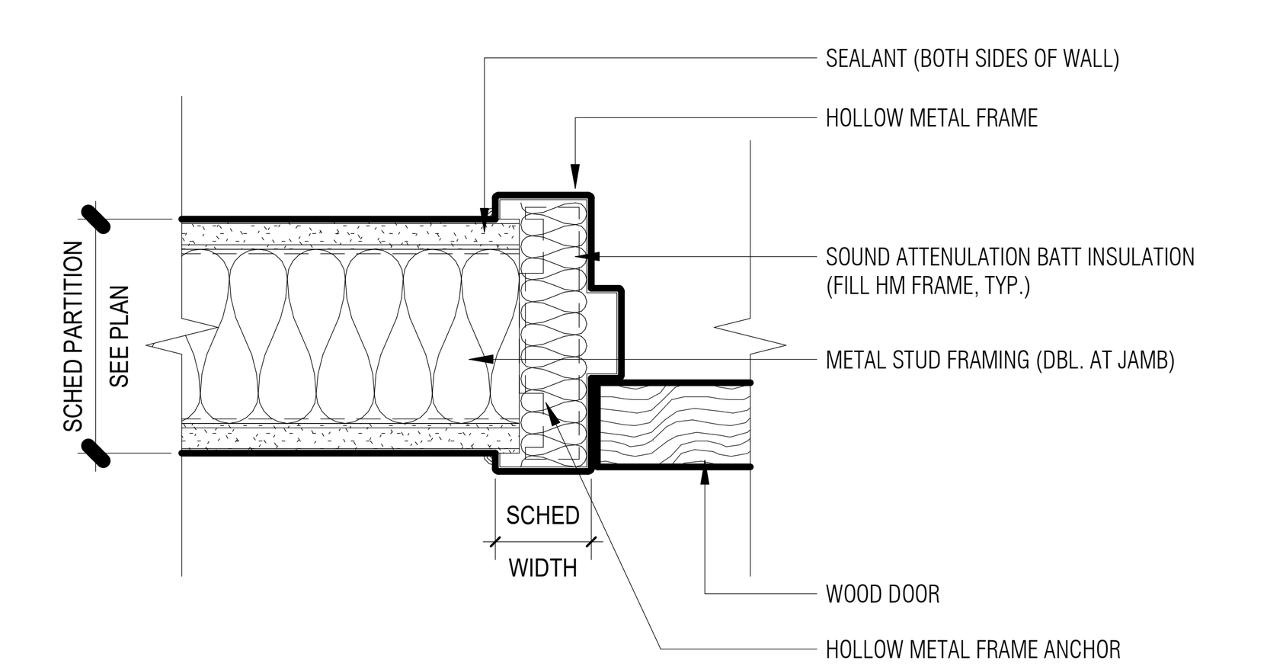
H2 A800 **INTERIOR STOREFRONT HEAD**
3" = 1'-0"



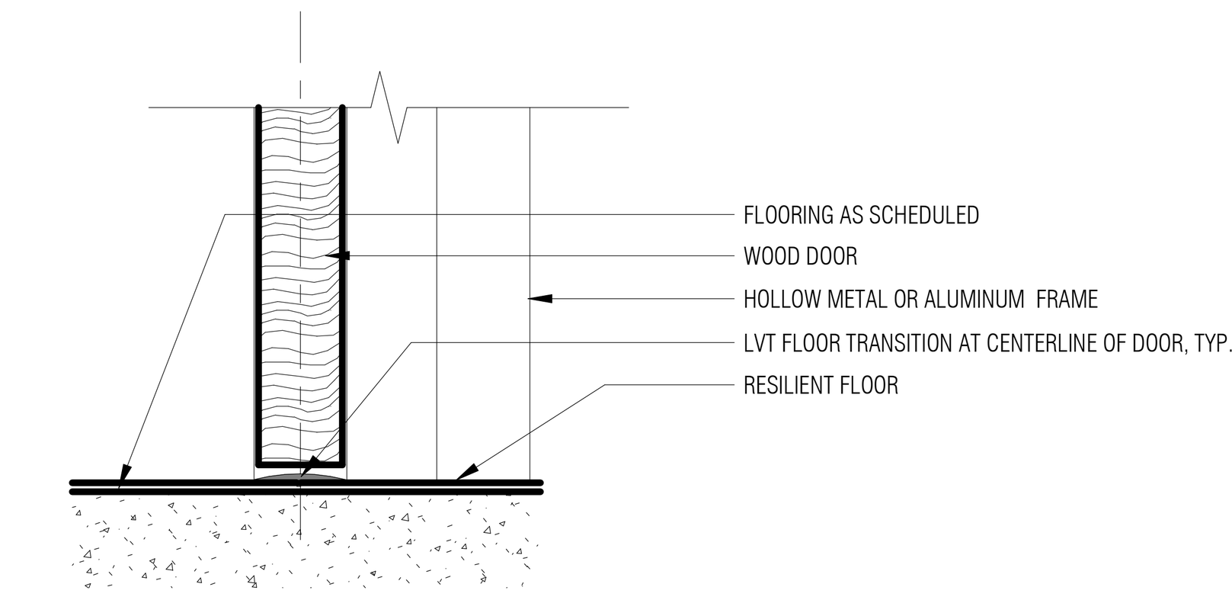
H1 A800 **HEAD DETAIL**
3" = 1'-0"



J2 A800 **INTERIOR STOREFRONT JAMB**
3" = 1'-0"

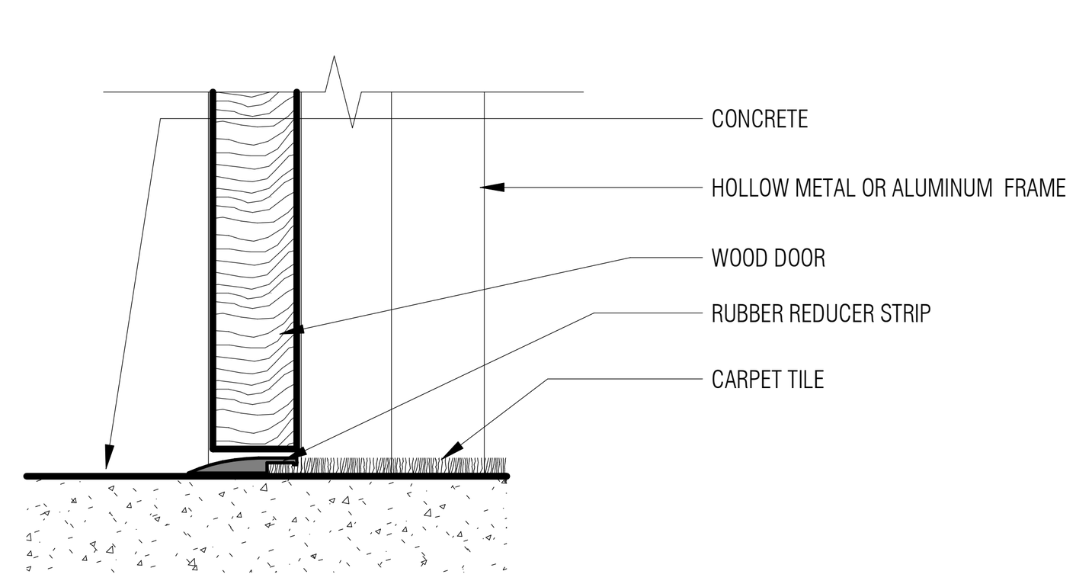


J1 A800 **JAMB DETAIL**
3" = 1'-0"

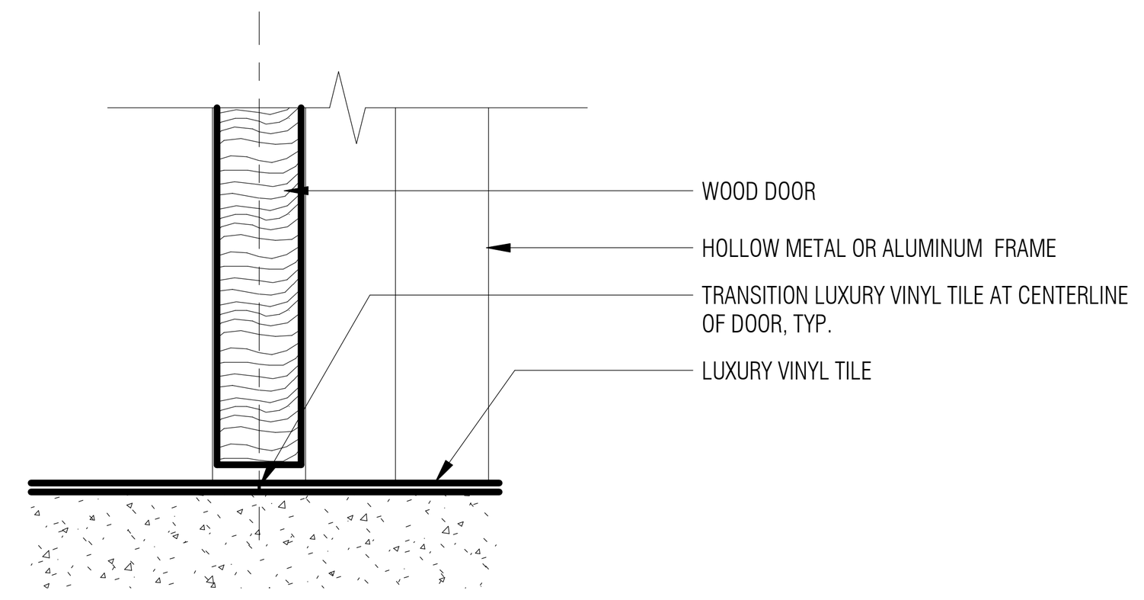


S6 A800 **SILL - LVT TO RESILIENT FLOOR**
3" = 1'-0"

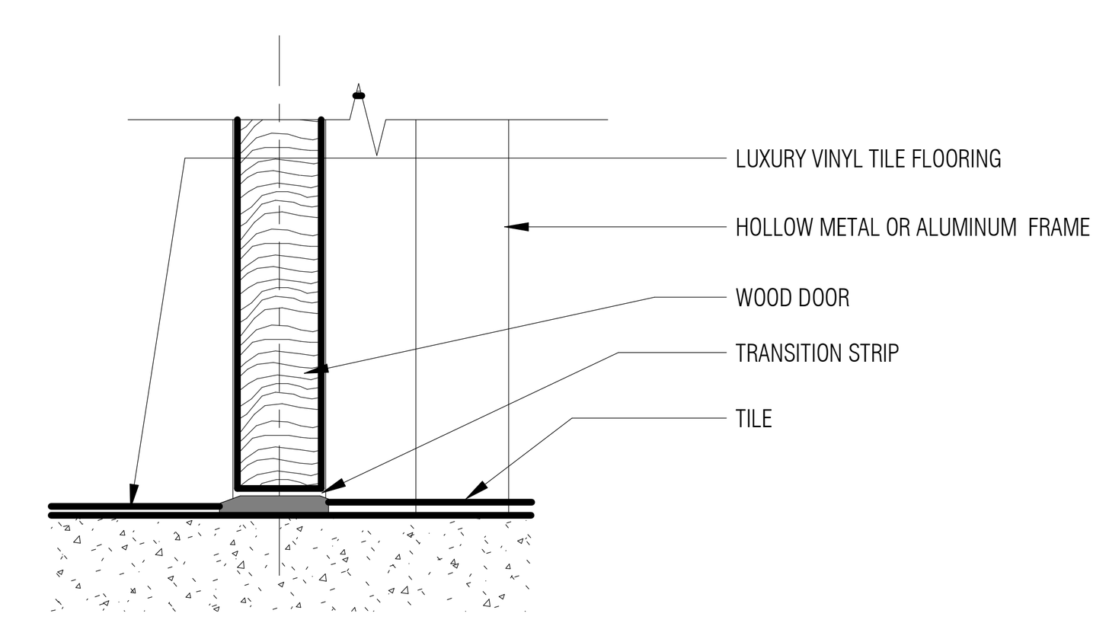
A



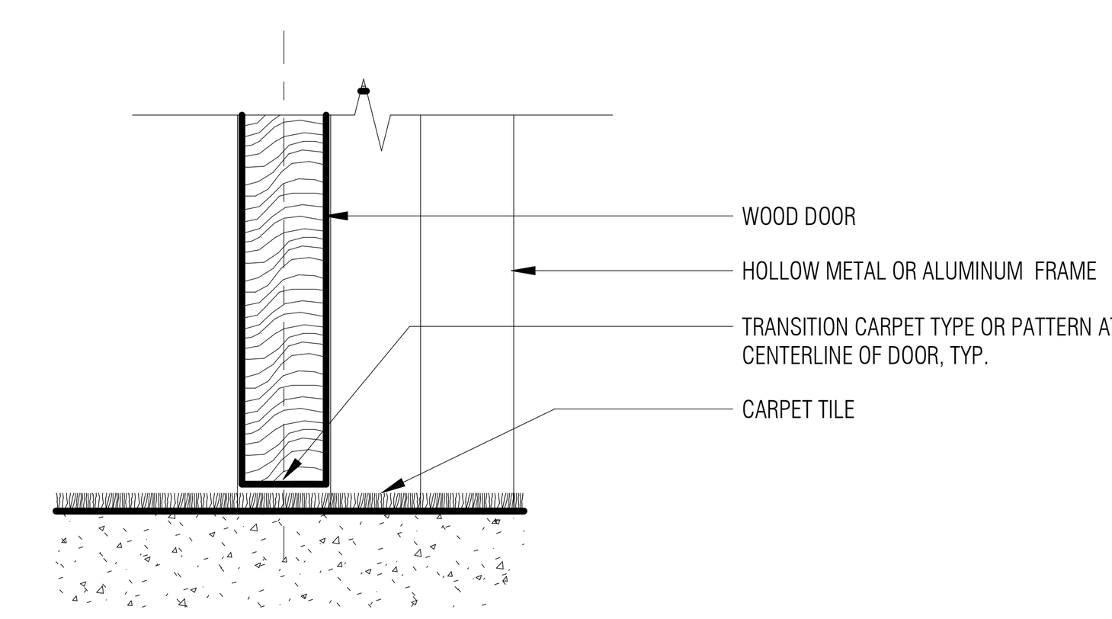
S5 A800 **SILL - CONCRETE TO CPT**
3" = 1'-0"



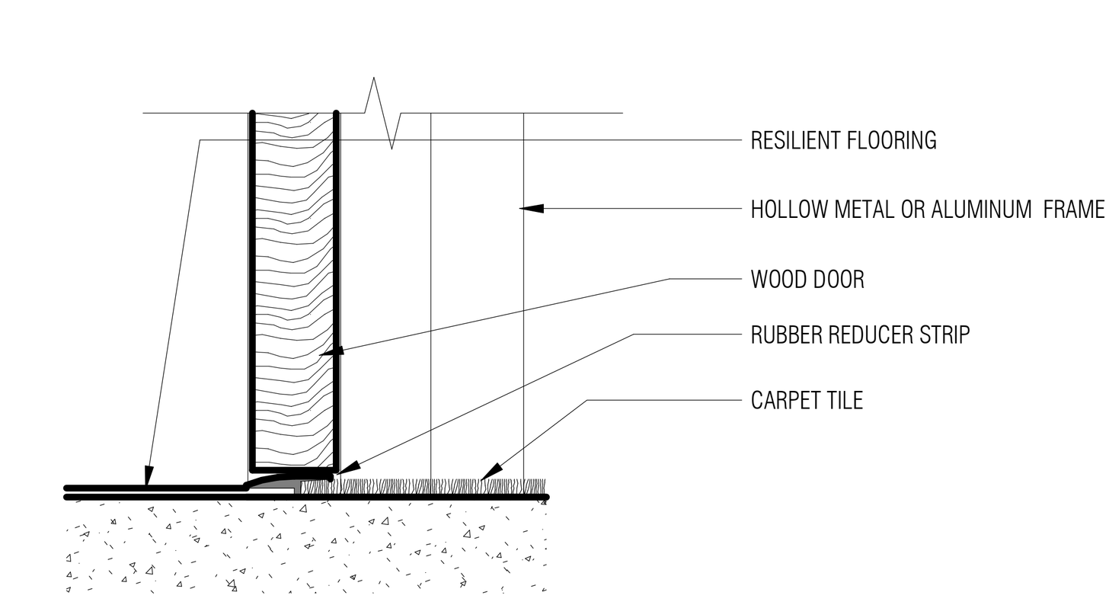
S4 A800 **SILL - LVT TO LVT**
3" = 1'-0"



S3 A800 **SILL - LVT TO TILE**
3" = 1'-0"



S2 A800 **SILL - CPT TO CPT**
3" = 1'-0"



S1 A800 **SILL - CPT TO LVT**
3" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

MIDLANDS TECHNICAL COLLEGE

AIRPORT LEARNING RESOURCE CENTER IMPROVEMENTS

H59-6162-CB

1260 Lexington Dr, West Columbia, SC 29170

ISSUE DATE: 11-21-2025
PHASE: CONSTRUCTION DOCUMENT

SHEET ISSUE:

NO.	DATE	DESCRIPTION
1	08-29-2025	60% DESIGN DEVELOPMENT
2	09-12-2025	100% DESIGN DEVELOPMENT
3	11-21-2025	CONSTRUCTION DOCUMENT
4	02-26-2026	ADDEDNDUM 01

PRINCIPAL IN CHARGE: DM
PROJECT ARCHITECT: RF
DRAWN BY: Author

SHEET TITLE:

DOOR SCHEDULE & DETAILS

SHEET NO. A800

PROJ. NO. 024096.00

ELECTRICAL SYMBOLS

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
$	SINGLE POLE TOGGLE SWITCH	48" TOD
$a	SWITCH: SUB-LETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD
$2	DOUBLE POLE TOGGLE SWITCH	48" TOD
$3	THREE-WAY TOGGLE SWITCH (SPDT)	48" TOD
$4	FOUR-WAY TOGGLE SWITCH (DPDT)	48" TOD
$K	KEY OPERATED SWITCH	48" TOD
$3D a	THREE WAY DIMMER SWITCH: SUBLETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD
$M	MANUAL STARTER W/ OVERLOADS	48" TOD
$P	SWITCH W/ PILOT LIGHT	48" TOD
$D	DIMMER SWITCH	48" TOD
$4D	4 BUTTON DIMMER SWITCH	48" TOD
$LV	LOW VOLTAGE CONTROL SWITCH	48" TOD
$T	MANUAL TIME SWITCH	48" TOD
$C	MOMENTARY CONTACT SWITCH	48" TOD
$WP	SWITCH WITH WEATHERPROOF ENCLOSURE	48" TOD
OS OS	OCCUPANCY SENSOR (CEILING & WALL MOUNTED)	
VS	VACANCY SENSOR	
T	TIME CLOCK	
R	RELAY	
L	LIGHTING CONTACTOR	
P	PHOTOCELL OR PUSHPLATE SWITCH	
UL924	EMERGENCY SHUNT RELAY, UL 924 LISTED (CEILING MOUNTED)	
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED	
	LIGHTING FIXTURE: 2 BALLAST	
	LIGHTING FIXTURE: INDUSTRIAL	
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED	
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED	
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED	
	WALL WASHER	
	ADJUSTABLE WALL WASHER	
	LIGHTING FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRCUIT (NL)	
	EMERGENCY BATTERY PACK: W/ NUMBER OF HEADS INDICATED	
B	EMERGENCY BATTERY PACK: W/ REMOTE HEADS	
	REMOTE EMERGENCY HEAD	
	EMERGENCY BATTERY PACK: SEMI RECESSED, CEILING MOUNT	
	EXIT SIGN: CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)	
	EXIT SIGN: WALL MOUNTED - END, BACK	
	EXIT SIGN: W/ DIRECTIONAL ARROWS	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE HEAD, DOUBLE HEAD	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE, POLE TOP	
	LIGHTING POLE (SPORTS)	

SPECIAL SYSTEMS SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
H	FIRE ALARM HORN TYPE SPEAKER	NOTE 5
H	FIRE ALARM FLASHING STROBE LIGHT - WALL MOUNTED	NOTE 5
F	FIRE ALARM - HORN STROBE; WALL MOUNTED	NOTE 5
F	FIRE ALARM - HORN STROBE; WALL MOUNTED	NOTE 5
S F	S - CEILING SPEAKER, F - FIRE ALARM SPEAKER	
S	COMBINATION FIRE ALARM HORN AND FLASHING STROBE	
S	HORN TYPE SPEAKER	
H	MAGNETIC DOOR HOLDER	
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	
FAAP	FIRE ALARM ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
RAM	RESCUE ASSISTANCE MASTER CONTROL PANEL	48" TOD
RAR	RESCUE ASSISTANCE REMOTE STATION	48" TOD
TP	FIRE ALARM TRANSPONDER	
DS ES	DOOR SOLENOID, ELECTRIC STRIKE - LOCKING DEVICE CONNECTION POINT	
F	FIRE ALARM PULL STATION	48" TOD
H, H E	HEAT DETECTOR: E = ELEVATOR CONTROLS	
P AB, P E	SMOKE DETECTOR (PHOTOELECTRIC): AB = AUDIBLE BASE, E = ELEVATOR CONTROLS	
I	SMOKE DETECTOR (IONIZATION)	
D	FIRE ALARM DUCT DETECTOR WITH RELAY	
C	CARBON MONOXIDE DETECTOR	
ARC	FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL	
ARM	FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR	
RAL	FIRE ALARM SYSTEM REMOTE ALARM LIGHT	
FS	FLOW SWITCH CONNECTION	
TS	TAMPER SWITCH CONNECTION	
TRASMITTE LBT LIGHT BEAM LBR RECEIVER	FIRE ALARM LINEAR BEAM SMOKE DETECTOR: TRANSMITTER (LBT) AND RECEIVER (LBR)	
F	FIRE FIGHTER'S TELEPHONE JACK	48" TOD
M	MONITOR SYSTEM JUNCTION BOX	36" CTR
A	AMPLIFIER	
K	KEYPAD	48" TOD
CR	CARD READER	48" TOD
DA	DOOR ALARM CONTACT	
C	ROUGH-IN JUNCTION BOX FOR CCTV CAMERA; CEILING MOUNTED	
W	ROUGH-IN JUNCTION BOX FOR CCTV CAMERA; WALL MOUNTED	
P	PUSH BUTTON PLATE	
	TELEVISION ANTENNA OUTLET	18" CTR
C	CABLE TV OUTLET	
2W 4W	TELEVISION SYSTEM SPLITTER - 2 WAY, 4 WAY	
CD	A/V CREDENZA LOCATION	
IP	A/V INPUT PLATE	
R	A/V IN-WALL RACK	
MT	A/V MONITOR TV	
SC	A/V SCREEN CONTROL	
SP	A/V SCHEDULING PANEL	
ST	A/V SIGNAGE TV	
TP	A/V TOUCH PANEL	
	DATA/TELEPHONE OUTLET, CEILING MOUNTED	
	TELECOMM OUTLET; PROVIDE SINGLE GANG BACK BOX WITH 3/4" CONDUIT TO ACCESSIBLE CEILING	54" CTR
	TELECOMM OUTLET; PROVIDE SINGLE GANG BACK BOX WITH 3/4" CONDUIT TO ACCESSIBLE CEILING	18" CTR
	TELECOMM OUTLET; PROVIDE SINGLE GANG BACK BOX WITH 3/4" CONDUIT TO ACCESSIBLE CEILING MOUNT 6" ABOVE BACKSPLASH OR COUNTER	
	TELEPHONE OUTLET, FLOOR MOUNTED	
	DATA OUTLET, FLOOR MOUNTED	
	DATA/TELEPHONE OUTLET, FLOOR MOUNTED: UNSHADED AREA = DATA, SHADED AREA = VOICE NUMERALS INDICATE QUANTITY OF WIRED JACKS	
	COMBINATION POWER & TELEPHONE OUTLET, FLOOR MOUNTED	
	COMBINATION POWER & DATA OUTLET, FLOOR MOUNTED	
	COMBINATION POWER & DATA/TELEPHONE OUTLET, FLOOR MOUNTED	
WAP	WIRELESS ACCESS POINT	

4

POWER SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
$	COMBINATION SWITCH AND SIMPLEX RECEPTACLE	48" TOD
$	COMBINATION SWITCH AND DUPLEX RECEPTACLE	48" TOD
	SIMPLEX RECEPTACLE	18" CTR
E	DUPLEX RECEPTACLE: 'E' (IF SHOWN) INDICATES CONNECTED TO EMERGENCY CIRCUIT	18" CTR
	DOUBLE DUPLEX RECEPTACLE: FLOOR MOUNTED POKE THRU: EVOLUTION SERIES #4ATCP4RBK OR EQUAL.	
	DUPLEX RECEPTACLE: SPLIT WIRED, BOTTOM HALF SWITCHED	18" CTR
	DUPLEX RECEPTACLE: CEILING MOUNTED	
	DUPLEX RECEPTACLE: PEDESTAL TYPE	
	DUPLEX RECEPTACLE: MOUNTED 6" ABOVE BACKSPLASH OR COUNTER	
GFI	DUPLEX RECEPTACLE: GROUND FAULT INTERRUPTER TYPE	18" CTR
GFI	DUPLEX RECEPTACLE: GFI MOUNTED 6" ABOVE BACKSPLASH OR COUNTER	
H	DUPLEX RECEPTACLE: MOUNTED HIGH	84" CTR
IG	DUPLEX RECEPTACLE: ISOLATED GROUND	18" CTR
	DUPLEX RECEPTACLE: AT 54" A.F.F.	54" CTR
	DOUBLE DUPLEX RECEPTACLE	18" CTR
IG	DOUBLE DUPLEX RECEPTACLE ISOLATED GROUND	18" CTR
C	SIMPLEX RECEPTACLE: CART RECHARGE	36" CTR
C	DUPLEX RECEPTACLE: CART RECHARGE	36" CTR
P	DUPLEX RECEPTACLE: PAY PHONE	54" CTR
TV	TV DUPLEX RECEPTACLE	54" CTR
TV	TV DOUBLE DUPLEX RECEPTACLE	54" CTR
A	SPECIAL RECEPTACLE: NEMA 6-20R (20A, 2P, 3W, 208V)	18" CTR
B	SPECIAL RECEPTACLE: NEMA 6-30R (30A, 2P, 3W, 208V)	18" CTR
C	SPECIAL RECEPTACLE: NEMA 14-20R (20A, 3P, 4W, 208/120V)	18" CTR
D	SPECIAL RECEPTACLE: NEMA 15-30R (30A, 3P, 4W, 208V)	18" CTR
A	SPECIAL RECEPTACLE: FLOOR MOUNTED, NEMA 6-20R	
A	SPECIAL RECEPTACLE: PEDESTAL TYPE, NEMA 6-20R	
	TELEVISION RECEPTACLE	72" CTR
H	TELEVISION RECEPTACLE	18" BFC
C	CLOCK HANGER OUTLET	84" CTR
1, 2	PROGRAM CLOCK OUTLET: SINGLE FACE, DOUBLE FACE	84" CTR
EPO	EMERGENCY POWER OFF SWITCH	48" TOD
J	JUNCTION BOX	
J	JUNCTION BOX - WALL MOUNTED	48" TOD
J WP	JUNCTION BOX, 120V CONNECTION FOR WALL PARTITION	
E	EQUIPMENT CONNECTION AS NOTED	
E	EQUIPMENT CONNECTION AS NOTED - WALL MOUNTED	48" TOD
H 3	HEATER CONNECTION - NUMBER INDICATES KILOWATTS (3KW)	
H	HEATER FAN - CEILING MOUNTED	
CB	ENCLOSED CIRCUIT BREAKER	
	NON-FUSED DISCONNECT SWITCH: 30A, 3P (UON)	
(40A)	FUSED DISCONNECT SWITCH: FUSE SIZE AS INDICATED (40A)	
MS	MAGNETIC MOTOR STARTER	
FVNR	COMBINATION MAGNETIC MOTOR STARTER: ABBREVIATION INDICATES TYPE - FVNR, FVR, RVAT, 2S1W, 2S2W, SST	
VFC	VARIABLE FREQUENCY CONTROLLER W/ FUSED DISCONNECT SWITCH	
VFD	VARIABLE FREQUENCY DRIVE W/ DISCONNECT SWITCH	
M HP	MOTOR: NUMERALS (IF SHOWN) INDICATE HP	
G kW	GENERATOR: NUMERALS (IF SHOWN) INDICATE KW	
$M	MANUAL MOTOR STARTER W/ THERMAL OVERLOADS	
J $M	MOTOR SWITCH	
M	MECHANICAL EQUIPMENT CONNECTION - WITH MOTOR	
J $	MECHANICAL EQUIPMENT CONNECTION - NO MOTOR	
CP	CONTROL PANEL: TYPE AS INDICATED	
PB	MOMENTARY CONTACT START-STOP PUSHBUTTON STATION	48" TOD
PBM	MAINTAINED CONTACT START-STOP PUSHBUTTON STATION	48" TOD
ES	MAINTAINED CONTACT EMERGENCY STOP PUSHBUTTON STATION	48" TOD
	BRANCH PANELBOARD	90" TOC
	DISTRIBUTION PANELBOARD	
T	TRANSFORMER, CONCRETE PAD MOUNTED	

SYMBOL	DESCRIPTION
	RACEWAY "UP" OR "TOWARDS"
	RACEWAY "DOWN" OR "AWAY"
	CIRCUIT CONCEALED IN WALLS OR CEILING SPACE: CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)
	RACEWAY CONCEALED IN SLAB OR BELOW GRADE
	BRANCH CIRCUIT HOMERUN TO PANELBOARD: QUANTITY OF CIRCUITS INDICATED BY ARROWS NUMBER OF CONDUCTORS SHALL BE MINIMUM 4#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)
	RACEWAY RUN EXPOSED: CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)
	BUS DUCT OR CABLE TRAY "UP" OR "TOWARDS"
	BUS DUCT OR CABLE TRAY "DOWN" OR "AWAY"
	BUS DUCT: TYPE AND SIZE AS INDICATED
	TELEPHONE AND POWER POLE ASSEMBLY
	CONCRETE ENCASED DUCTBANK BELOW GRADE
W	SURFACE MOUNTED RACEWAY ASSEMBLY WITH REMOVABLE COVER
	MULTI-OUTLET ASSEMBLY: DARK SQUARES INDICATE PREWIRED RECEPTACLE LOCATIONS SIZE AS INDICATED
	MULTI-OUTLET ASSEMBLY: WITH RECEPTACLES LOCATED WHERE INDICATED
	2 CELL MULTI-OUTLET ASSEMBLY: WITH COMMUNICATION DEVICES AND RECEPTACLES LOCATED WHERE INDICATED
	MULTI-OUTLET ASSEMBLY: WITH COMMUNICATION DEVICES LOCATED WHERE INDICATED
	FLEXIBLE CONDUIT
	CABLE TRAY
	GROUND ROD
	LIGHTNING PROTECTION AIR TERMINAL
G • G	GROUND WIRE CONNECTION
G G G	GROUND WIRE
	LIGHTNING PROTECTION DOWN LEAD
	UTILITY POLE

CIRCUIT DESIGNATIONS

LIGHTING A # a
- FIXTURE TYPE (A)
- CIRCUIT DESIGNATION (#12AWG MINIMUM) (#)
- SWITCH DESIGNATION (a)

POWER #
- CIRCUIT DESIGNATION (#12AWG MINIMUM) (#)

ELECTRICAL SYMBOLS NOTES

1. THIS IS A STANDARD SYMBOL LIST. SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
2. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
3. PLAN AND SECTION SYMBOLS MAY ALSO BE USED ON RISER DIAGRAMS.
4. ON SINGLE LINE DIAGRAMS FOR 3 PHASE SYSTEMS, DEVICE QUANTITY = 3, UNLESS OTHERWISE NOTED.
5. DEVICE SHALL BE MOUNTED A MINIMUM OF 90" AFF TO BOTTOM OF DEVICE OR BELOW THE FINISHED CEILING OF NOT LESS THAN 6" TO TOP OF DEVICE, WHICHEVER IS LOWER.
6. UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUITS AND BOXES SHALL BE CONCEALED.

ELECTRICAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

2S1W	2 SPEED SINGLE WINDING
2S2W	2 SPEED DOUBLE WINDING
A, AMP	AMPERE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINAL GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CAPACITY
ALT	ALTERNATE
ANN	ANNUNCIATOR
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BOD	BOTTOM OF DEVICE
C, CND	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT, CCT	CIRCUIT
CL	CURRENT LIMITING
CLG	CEILING
CONN	CONNECT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CTR	CENTER
CU, CO	COPPER
CX	CONNECT TO EXISTING
DC	DIRECT CURRENT
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DT	DOUBLE THROW
DWG	DRAWING
E, EMERG	EMERGENCY
EA	EACH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ELEC	ELECTRIC
ELEV	ELEVATION, ELEVATOR
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPOSED
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FAN COIL
FDR	FEEDER
FLA	FULL LOAD AMPERES
FLR	FLOOR
FR	FRAME
FU	FUSED, FUSIBLE
FUSS	FUSED SAFETY SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GEN	GENERATOR, GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTED
GFR	GROUND FAULT RELAY
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HEAT PUMP, HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ
IG	ISOLATED GROUND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATTS
KWH	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LC	LIGHTING CONTACTOR
LP	LIGHTING PANEL
LRA	LOCKED ROTOR AMPERES
LTG	LIGHTING
LTNG	LIGHTNING
MATV	MASTER ANTENNA TELEVISION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MEH	METAL HALIDE
MH	MANHOLE, MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MSP	MOTOR STARTER PANEL
MTD	MOUNTED
MV	MERCURY VAPOR
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NFSS	NON-FUSED SAFETY SWITCH
NO	NUMBER, NORMALLY OPEN
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
P	POLE
PB	PUSHBUTTON
PF	POWER FACTOR
PFCC	POWER FACTOR CORRECTION CAPACITOR
PL	PILOT LIGHT
PLC	PROGRAMMABLE LIGHTING CONTROL
PNL	PANEL
PP	POWER PANEL
Pp	PUMP
PR	PAIR
PRN	PRINTER
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
Ø, PH	PHASE
QTY	QUANTITY
RCS	REMOTE CONTROL SWITCH
REC, RECPT	RECEPTACLE
REQ'D	REQUIRED
RFI	RADIO FREQUENCY INTERFERENCE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPERES
RM	ROOM
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RX	REMOVE EXISTING
SC	SURGE CAPACITOR
SEC	SECONDARY
SN, S/N	SOLID NEUTRAL
SP	SURGE PROTECTION
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SS	SAFETY SWITCH
SST	SOLID STATE
ST	SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
TBR	TO BE REMOVED
TC	TIME CLOCK
TEL, TELE	TELEPHONE
TH	TUNGSTEN HALOGEN
TOC	TOP OF CABINET
TOD	TOP OF DEVICE
TRANS, XFMR	TRANSFORMER
TTB	TELEPHONE TERMINAL BOARD
TW	TWISTED
TYP	TYPICAL
UCB	UNIT CIRCUIT BREAKER
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VOLTS
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
W/	WITH
WP	WEATHER-PROOF
XP	EXPLOSION PROOF

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
SWGR	SWITCHGEAR
SWBD	SWITCHBOARD
PNL	PANELBOARD
MCC	MOTOR CONTROL CENTER
XFMR	TRANSFORMER

ELECTRICAL DRAWING PRESENTATION

SYMBOL	DESCRIPTION
#	REVISION NUMBER
1	DRAWING NOTE NUMBER
XX / XX	SECTION/ELEVATION IDENTIFICATION
XX / XX	PART PLAN AND DETAIL IDENTIFICATION
	EXISTING LINE TYPE
	NEW ELECTRICAL WORK LINE TYPE
	FUTURE ELECTRICAL WORK LINE TYPE
	DEMOLITION LINE TYPE ON DEMOLITION DRAWINGS

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

rmf
RMF ENGINEERING, INC.
194 SEVEN FARMS DRIVE
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CHARLESTON, SC 29492
P: 843-971-9639 F: 843-971-9641

SEALS

STATE OF SOUTH CAROLINA RMF ENGINEERING INC. CHARLESTON, SC C-00831 REGISTERED ENGINEERS

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 26365 BETH A. CRUTCHFIELD 02/25/2026

MIDLANDS TECHNICAL COLLEGE
AIRPORT LEARNING RESOURCE CENTER IMPROVEMENTS
H59-6162-CB
1260 Lexington Dr, West Columbia, SC 29170

ISSUE DATE: 11-14-2025
PHASE: CONSTRUCTION DOCUMENT

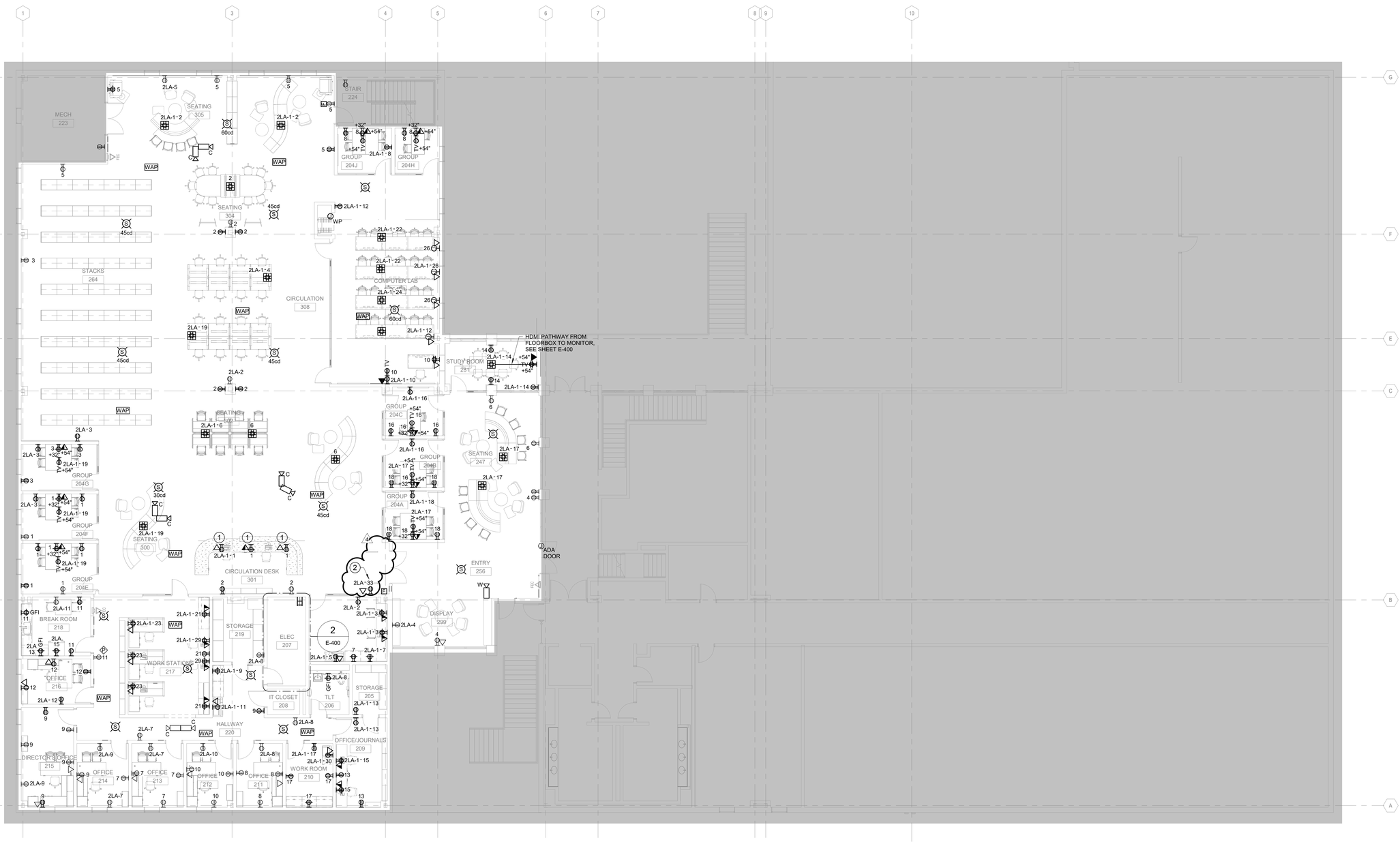
SHEET ISSUE:

NO.	DATE	DESCRIPTION
4	02-26-2026	ADDENDUM 01

CHECKED BY: DMS
DESIGNED BY: AEJ
DRAWN BY: AEJ

SHEET TITLE:
ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NO. E-001
PROJ. NO. 3240140.A0



1 ELECTRICAL NEW WORK POWER AND SPECIAL SYSTEMS PLAN - LEVEL 2

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO LABEL ALL RECEPTACLES IN AREAS OF WORK, IDENTIFYING THE PANEL NAME AND CIRCUIT.
2. PROVIDE FIRESTOP PUTTY PAD FOR ALL RELOCATED OR NEW BACK BOXES LOCATED IN RATED WALLS.
3. PROVIDE FIRESTOP PUTTY FOR ALL CONDUITS PENETRATING RATED WALLS.
4. SEE ARCHITECTURAL ELEVATIONS FOR LOW VOLTAGE MOUNTING HEIGHTS.
5. ALL WALL MOUNTED DEVICES SUCH AS RECEPTACLES, DATA DROPS, ETC. SHALL BE ROUGHED-IN WHERE ARCHITECT SHOWS THE DEVICES IN ELEVATION, UON.
6. WIRING DEVICES FACEPLATE COLOR SHALL BE DETERMINED BY ARCHITECT.

(#) DRAWING NOTES

1. COORDINATE ROUGH IN WITH MILLWORK. POWER AND DATA SHALL BE FED THROUGH WORKSPACE VIA GROMMET.
2. PROVIDE 120V CIRCUIT FOR SECURITY GATE CONNECTION.

GRAPHIC SCALE
8 4 0 8 16
SCALE: 1/8" = 1'-0"
UNIT OF MEASURE: FEET

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

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SEALS

STATE OF SOUTH CAROLINA — RMF ENGINEERING INC. CHARLESTON, SC C-00831 — REGISTERED ENGINEERS

SOUTH CAROLINA — No. 26305 — 02/25/2026

MIDLANDS TECHNICAL COLLEGE
AIRPORT LEARNING RESOURCE CENTER IMPROVEMENTS
H59-6162-CB
1260 Lexington Dr, West Columbia, SC 29170

ISSUE DATE: 11-14-2025
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4	02-26-2026	ADDENDUM 01

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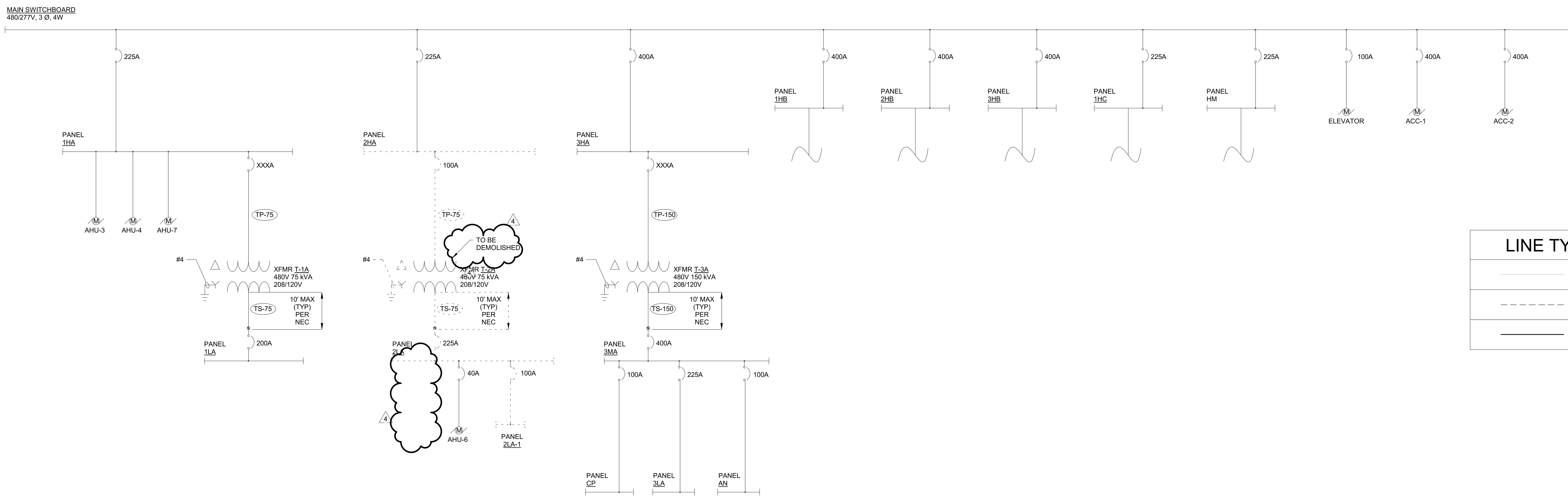
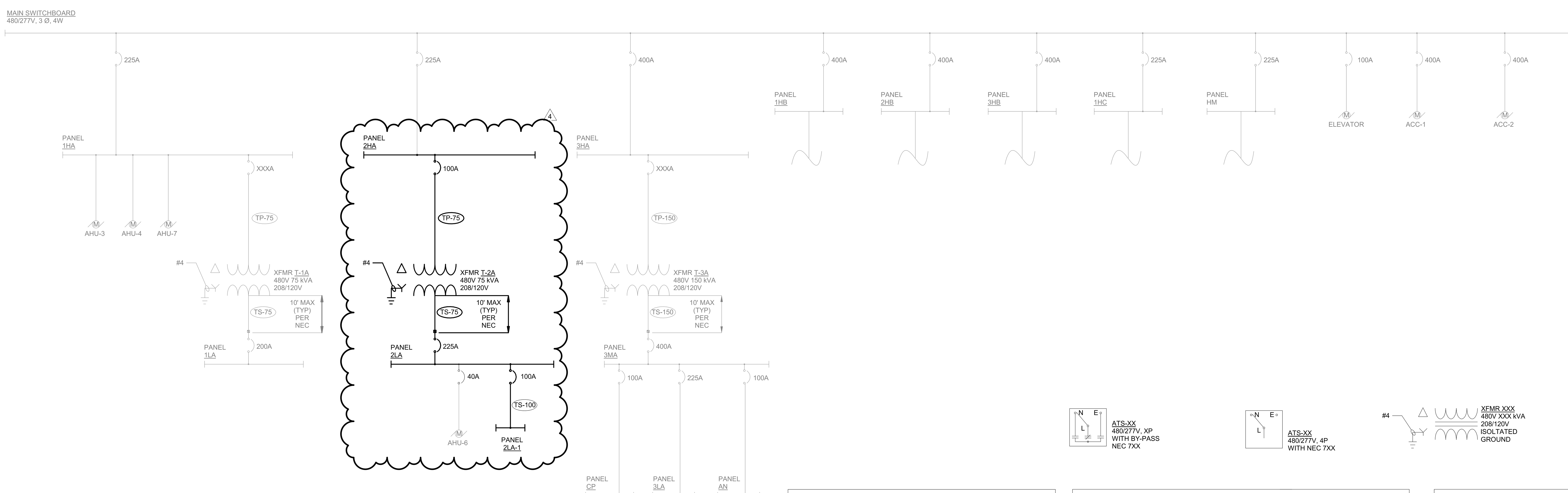
DESIGNED BY: AEJ
DRAWN BY: AEJ

SHEET TITLE:
ELECTRICAL NEW WORK POWER AND SPECIAL SYSTEMS PLAN

SHEET NO. E-101
PROJ. NO. 3240140.A0



LINE TYPE LEGEND	
	EXISTING
	DEMOLITION
	NEW WORK



ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.

PANEL KEY

1 LS H D 1

FLOOR 1: FIRST
LEVEL 2: SECOND
LEVEL 3: THIRD
LEVEL P: PENTHOUSE

LS: LIFE SAFETY/EMERGENCY (NEC 700)
O: OPTIONAL (NEC 701/702)
BLANK: NORMAL

H: 277/480V
L: 120/208V

B: BRANCH
D: DISTRIBUTION
M: MECHANICAL
L: LIGHTING

PANEL #

FEEDER SCHEDULE
(600V UNLESS OTHERWISE NOTED)

LEGEND:
P - PANEL
M - MOTOR
TP/TS - XFMR (PRIMARY/SECONDARY)

EXAMPLE:
P-100 - 100A PANEL FEEDER
M-30 - 30HP MOTOR FEEDER
TP-75 - 75KVA TRANSFORMER PRIMARY

LABEL	SETS	SIZE	GROUND	CONDUIT
MAIN	6	4#500	-	4"
TVSS	1	4#6	#10	1 1/4"
P-20	1	4#12	#12	3/4"
P-25 / P-30	1	4#10	#10	1/2"
P-35 / P-40	1	4#8	#10	3/4"
P-45 / P-50	1	4#8	#10	1"
P-60	1	4#6	#10	1 1/4"
P-70 / P-80	1	4#4	#8	1 1/4"
P-90 / P-100	1	4#3	#8	1 1/4"
P-110	1	4#2	#6	1 1/2"
P-125	1	4#1	#6	2"

LABEL	SETS	SIZE	GROUND	CONDUIT
P-150	1	4#1/0	#6	2"
P-200	1	4#3/0	#6	2"
P-225	1	4#4/0	#4	2 1/2"
P-250	1	4#250	#4	2 1/2"
P-300	1	4#350	#4	3"
P-400	1	4#500	#3	3 1/2"
P-600	2	4#350	#1	3"
P-800	2	4#500	#1/0	3 1/2"
P-1200	4	4#350	#3/0	3"
P-1600	5	#400	#4/0	3"
CH	1	4#3	#6	4"
FPE	1	4#2/0	#4	4"
GEN1	1	4#3/0	#6	4"
GEN2	2	4#500	#1/0	4"
FPT	1	4#2/0	-	4"

FEEDER SCHEDULE
(600V UNLESS OTHERWISE NOTED)

LEGEND:
P - PANEL
M - MOTOR
TP/TS - XFMR (PRIMARY/SECONDARY)

EXAMPLE:
P-100 - 100A PANEL FEEDER
M-30 - 30HP MOTOR FEEDER
TP-75 - 75KVA TRANSFORMER PRIMARY

LABEL	SETS	SIZE	GROUND	CONDUIT
M-10	1	3#12	#12	3/4"
M-15	1	3#10	#10	3/4"
M-20	1	3#8	#10	3/4"
M-25 / M-30	1	3#6	#8	3/4"
M-40	1	3#6	#8	1"
M-50	1	3#4	#6	1 1/4"
M-60	1	3#3	#6	1 1/2"
M-75	1	3#1	#6	1 1/2"
M-100	1	3#2/0	#6	1 1/2"
M-125	1	3#3/0	#4	2"
TP-15	1	3#10	#10	3/4"
TP-30	1	3#6	#10	3/4"
TP-45	1	3#3	#8	1 1/4"

LABEL	SETS	SIZE	GROUND	CONDUIT
TP-75	1	3#1/0	#6	1 1/2"
TP-112	1	3#3/0	#6	2"
TP-150	1	3#250	#4	2"
TP-225	1	3#600	#3	4"
TP-300	2	3#250	#2	2 1/2"
TS-15	1	4#8	#8	3/4"
TS-30	1	4#3	#8	1 1/4"
TS-45	1	4#1	#6	1 1/2"
TS-75	1	4#250	#2	2 1/2"
TS-112	1	4#350	#2	3"
TS-150	2	4#350	1	3"
TS-225	2	4#600	#1/0	3 1/2"
TS-300	4	4#600	#2/0	3 1/2"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

RMF ENGINEERING, INC.
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SEALS

MIDLANDS TECHNICAL COLLEGE

AIRPORT LEARNING RESOURCE CENTER IMPROVEMENTS

H59-6162-CB

1260 Lexington Dr, West Columbia, SC 29170

ISSUE DATE: 11-14-2025
PHASE: CONSTRUCTION DOCUMENT

SHEET ISSUE:

NO.	DATE	DESCRIPTION
4	02-26-2026	ADDENDUM 01

CHECKED BY: DMS
DESIGNED BY: AEJ
DRAWN BY: AEJ

SHEET TITLE:

ELECTRICAL EXISTING ONE-LINE DIAGRAMS

SHEET NO. E-500

PROJ. NO. 3240140.A0

DRAWING NOTES

1. EXISTING PANELBOARD IS A WESTINGHOUSE POW-R-LINE C PRL2 PANELBOARD.
2. EXISTING PANELBOARD IS A WESTINGHOUSE POW-R-LINE C PRL1 PANELBOARD.
3. DEMOLISH (3) 120/208V, 20A, 1PH BREAKERS IN SPARES 2LA-35,37, AND 39.
4. PROVIDE (1) 208V, 100A, 3PH BREAKER IN SPACE 2LA-35,37,39.
5. PROVIDE SPARE FOR ALL PLUGMOLD CIRCUITS DEMOLISHED.
6. PROVIDE GF TYPE BREAKER FOR CIRCUIT 2LA-15.

LIGHTING FIXTURE SCHEDULE

	DESCRIPTION	LAMPS TYPE	LAMPS WATTS	LAMPS COLOR TEMP.	VOLTS	MOUNTING	MOUNTING SURFACE	REMARKS	MANUFACTURER #1	MANUFACTURER #2	MANUFACTURER #3
D1	4" LED ROUNDRECESSED DOWNLIGHT, 2000 LUMENS	LED	23	3500 K	277	CEILING	ACT	WHITE TRIM	HELIOS #4R20L35KWF-WIDEBEAM EMI FOR BATTERY	HE WILLIAMS	PRESCOLITE
D2	4" LED ROUNDRECESSED DOWNLIGHT, 1500 LUMENS	LED	15	3500 K	277	CEILING	ACT	WHITE TRIM	HELIOS #4R15L35KWF-WIDEBEAM EMI FOR BATTERY	HE WILLIAMS	PRESCOLITE
L2	18' LED RECESSED LINEAR,800LMF	LED	144	3500 K	277	CEILING	ACT	WHITE TRIM	MARK ARCHITECTURAL #SL4L-LOP-18FT-FLP-X-80CRI-35K-800LMF-MIN1-277 E10WLCP FOR BATTERY	FINELITE	CURRENT
L3	16' LED RECESSED LINEAR, 800LMF	LED	128	3500 K	277	CEILING	ACT	WHITE TRIM	MARK ARCHITECTURAL #SL4L-LOP-16FT-FLP-X-80CRI-35K-800LMF-MIN1-277 E10WLCP FOR BATTERY	FINELITE	CURRENT
L5	10' LED RECESSED LINEAR, 800LMF	LED	80	3500 K	277	CEILING	ACT	WHITE TRIM	MARK ARCHITECTURAL #SL4L-LOP-10FT-FLP-X-80CRI-35K-800LMF-MIN1-277 E10WLCP FOR BATTERY	FINELITE	CURRENT
L6	6' LED RECESSED LINEAR, 800LMF	LED	48	3500 K	277	CEILING	ACT	WHITE TRIM	MARK ARCHITECTURAL #SL4L-LOP-6FT-FLP-X-80CRI-35K-800LMF-MIN1-277 E10WLCP FOR BATTERY	FINELITE	CURRENT
L8	8' LED RECESSED LINEAR, 800LMF	LED	64	3500 K	277	CEILING	ACT	WHITE TRIM	MARK ARCHITECTURAL #SL4L-LOP-8FT-FLP-X-80CRI-35K-800LMF-MIN1-277 E10WLCP FOR BATTERY	FINELITE	CURRENT
L11	4' LED RECESSED LINEAR, 800LMF	LED	32	3500 K	277	CEILING	ACT	WHITE TRIM	MARK ARCHITECTURAL #SL4L-LOP-4FT-FLP-X-80CRI-35K-800LMF-MIN1-277 E10WLCP FOR BATTERY	FINELITE	CURRENT
LP1	ARCHITECTURAL LED RING PENDANT, 60" DIAMETER	LED	70	3500 K	277	CEILING	ACT	FINISH TBD BY ARCH	OCL #RV3-P1EM-60-MW-TBD-LED2-35K-935K-UNV-X-DM1	BINA LIGHTING	CORONET
LP2	ARCHITECTURAL LED RING PENDANT, 48" DIAMETER	LED	60	3500 K	277	CEILING	ACT	FINISH TBD BY ARCH	OCL #RV3-P1EM-48-MW-TBD-LED2-35K-935K-UNV-X-DM1	BINA LIGHTING	CORONET
LX	6' LED RECESSED LINEAR, 1000LM	LED	60	3500 K	277	CEILING	ACT	WHITE TRIM	MARK ARCHITECTURAL #SL4L-LOP-6FT-FLP-X-80CRI-35K-1000LMF-MIN1-277 E10WLCP FOR BATTERY	FINELITE	CURRENT
R1	2'X4' LED RECESSED FLAT PANEL, 4000 LUMENS	LED	37	3500 K	277	CEILING	ACT	WHITE TRIM	LITHONIA #CPX-2X4-4000LM-SWL-MIN1-ZT-277 IE10WCP FOR BATTERY	HE WILLIAMS	COLUMBIA
R2	2'X2' LED RECESSED FLAT PANEL, 4000 LUMENS	LED	37	3500 K	277	CEILING	ACT	WHITE TRIM	LITHONIA #CPX-2X2-4000LM-SWL-MIN1-ZT-277 IE10WCP FOR BATTERY	HE WILLIAMS	COLUMBIA
R3	2'X2' LED RECESSED FLAT PANEL, 4000 LUMENS	LED	37	3500 K	277	CEILING	ACT	WHITE TRIM	LITHONIA #CPX-2X2-4000LM-SWL-MIN1-ZT-277 IE10WCP FOR BATTERY	HE WILLIAMS	COLUMBIA
S1	4' LED INDUSTRIAL STRIP PENDANT, 5000 LUMENS	LED	38	3500 K	277	CEILING	STRUCTURE	WHITE FINISH	LITHONIA #CSS-L48-5000LUMENS-MVOLT-MIN10-ZT-35K-80CRI E10W FOR BATTERY	HE WILLIAMS	COLUMBIA
X1	LED EXIT SIGN, CEILING MOUNTED, RED LETTERING	Red LED	5		277	CEILING	ACT	RED LETTERING, UNIVERSAL MOUNTING	LIGHTALARMS #QLXN500RN	CHLORIDE	COLUMBIA

PANELBOARD: 2HA (1)

LOCATION: ELEC. RM. **MAINS:** MLO **AMPS:** 225
MOUNTING: Surface **VOLTS:** 480/277 Wye
ENCL NEMA: Type 1 **PHASE:** 3
MIN AIC: **WIRES:** 4

PANEL NOTES:
PROVIDE GROUND BUS
PROVIDE FULL SIZE NEUTRAL BUS UNLESS NOTED OTHERWISE

WIRE SIZE	LOAD DESCRIPTION	P	TRIP AMPS	TYPE	CKT	A		B		C		CKT	TYPE	TRIP AMPS	P	LOAD DESCRIPTION	WIRE SIZE
--	EX // LTG // RM 238, HALL	1	20 A	--	1	2.70	3.60					2	--	20 A	1	EX// LTG // LIB SOUTH CTR	--
--	EX // LTG // RM 230, 232, 237	1	20 A	--	3			2.20	2.80			4	--	20 A	1	EX// LTG // LIBRARY SE	--
--	EX // LTG // RMS 226, 229,...	1	20 A	--	5					2.30	3.10	6	--	20 A	1	EX// LTG // LIBRARY SW	--
					7	5.00	2.40					8	--	20 A	1	EX// LTG // LIB WEST CTR	--
--	EXISTING // ON // AHU-6	3	40 A	--	9			5.00	2.40			10	--	20 A	1	EX// LTG // LIB EAST CTR	--
					11					5.00	2.40	12	--	20 A	1	EX// LTG // LIBRARY NW	--
--	EX // LTG // NEW ATRIUM	1	20 A	--	13	0.00	1.90					14	--	20 A	1	EX// LTG // LIBRARY NE	--
--	SPACE	1	--	--	15			--	2.40			16	--	20 A	1	EX// LTG // RMS 239, 240,...	--
--	SPACE	1	--	--	17					--	1.20	18	--	20 A	1	EX // LTG // CALL, BALC,...	--
--	SPACE	1	--	--	19	--	--					20	--	--	1	SPACE	--
--	SPACE	1	--	--	21			--	--			22	--	--	1	SPACE	--
--	SPACE	1	--	--	23					--	--	24	--	--	1	SPACE	--
--	SPACE	1	--	--	25	--	--					26	--	--	1	SPACE	--
--	SPACE	1	--	--	27			--	--			28	--	--	1	SPACE	--
--	SPACE	1	--	--	29					--	--	30	--	--	1	SPACE	--
--	SPACE	1	--	--	31	--	--					32	--	--	1	SPACE	--
--	SPACE	1	--	--	33			--	--			34	--	--	1	SPACE	--
--	SPACE	1	--	--	35					--	--	36	--	--	1	SPACE	--
--	EXISTING // ON // TRANSFORMER T-2A	3	100 A	--	37	25.00	--					38	--	--	1	SPACE	--
					39			25.00	--			40	--	--	1	SPACE	--
					41					25.00	--	42	--	--	1	SPACE	--
					TOTAL LOAD:	40.60 kVA		39.80 kVA		39.00 kVA							

BREAKER TYPE KEYS:
LO - INDICATES C.B. EQUIPPED WITH "LOCK-ON" DEVICE
GF - INDICATES C.B. IS GROUND FAULT TYPE (5mA FOR PERSONNEL)
ST - INDICATES C.B. EQUIPPED WITH SHUNT TRIP DEVICE
HT - INDICATES C.B. EQUIPPED WITH 30mA GROUND FAULT FOR EQUIPMENT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	119.40 kVA
				Total Est. Demand:	119.40 kVA
				Total Conn. Current:	143.62 A
				Total Est. Demand Current:	143.62 A

PANELBOARD: 2LA-1

LOCATION: ELEC. RM 207 **MAINS:** MCB **AMPS:** 100
MOUNTING: Surface **VOLTS:** 208/120 Wye
ENCL NEMA: Type 1 **PHASE:** 3
MIN AIC: SEE ONE-LINE DIAGRAM **WIRES:** 4

PANEL NOTES:
PROVIDE GROUND BUS
PROVIDE FULL SIZE NEUTRAL BUS UNLESS NOTED OTHERWISE

WIRE SIZE	LOAD DESCRIPTION	P	TRIP AMPS	TYPE	CKT	A		B		C		CKT	TYPE	TRIP AMPS	P	LOAD DESCRIPTION	WIRE SIZE
	REC CIRC. DESK 301	1	20 A		1	0.54	1.08					2		20 A	1	REC SEATING 305, 304	
	COPIER PRINT RM 222	1	20 A		3			2.00	0.36			4		20 A	1	REC SEATING 304, 302	
	COPIER PRINT RM 222	1	20 A		5					0.18	1.08	6		20 A	1	REC SEATING 302	
	REC PRINT RM 222	1	20 A		7	0.36	1.44					8		20 A	1	REC GROUP 204J, 204H	
	REC HALLWAY 210	1	20 A		9			0.36	0.72			10		20 A	1	REC CLASSROOM 204D	
	COPIER HALLWAY 210	1	20 A		11					1.00	1.08	12		20 A	1	REC CLASSROOM 204D	
	REC STOR 205, OFFICE 209	1	20 A		13	0.72	1.26					14		20 A	1	REC STUDY ROOM 312	
	REC OFFICE 209	1	20 A		15			0.36	1.26			16		20 A	1	REC GROUP 204B, 204C	
	REC WORK RM 210	1	20 A		17					0.72	1.08	18		20 A	1	REC GROUP 204B, 204A	
	REC SEATING 300	1	20 A		19	0.90	0.00					20		20 A	1	WALL PARTITION CLASS...	
	REC WORKSTATIONS 217	1	20 A		21			0.54	0.72			22		20 A	1	REC COMPUTER LAB 204D	
	REC WORKSTATIONS 217	1	20 A		23					1.08	0.72	24		20 A	1	REC COMPUTER LAB 204D	
	VAV-4, VAV-5	1	20 A		25	0.00	1.08					26		20 A	1	REC COMPUTER LAB 204D	
	VAV-1, VAV-2, VAV-3	1	20 A		27			0.00	0.00			28		20 A	1	EXHAUST FAN TOILET 206	
	REC WORKSTATIONS 217	1	20 A		29					0.36	0.18	30		20 A	1	REC COPIER WORKRM 210	
					TOTAL LOAD:	7.38 kVA		6.32 kVA		7.48 kVA							

BREAKER TYPE KEYS:
LO - INDICATES C.B. EQUIPPED WITH "LOCK-ON" DEVICE
GF - INDICATES C.B. IS GROUND FAULT TYPE (5mA FOR PERSONNEL)
ST - INDICATES C.B. EQUIPPED WITH SHUNT TRIP DEVICE
HT - INDICATES C.B. EQUIPPED WITH 30mA GROUND FAULT FOR EQUIPMENT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC	19.74	75.33%	14.87		
Equipment	1.44	100.00%	1.44	**Total Conn. Load:**	21.18 kVA
HVAC	0.00	0.00%	0.00	**Total Est. Demand:**	16.31 kVA
				Total Conn. Current:	58.79 A
				Total Est. Demand Current:	45.27 A

PANELBOARD: 2LA (2)

LOCATION: ELEC. RM. **MAINS:** MCB **AMPS:** 225
MOUNTING: Surface **VOLTS:** 208/120 Wye
ENCL NEMA: Type 1 **PHASE:** 3
MIN AIC: **WIRES:** 4

PANEL NOTES:
PROVIDE GROUND BUS
PROVIDE FULL SIZE NEUTRAL BUS UNLESS NOTED OTHERWISE

WIRE SIZE	LOAD DESCRIPTION	P	TRIP AMPS	TYPE	CKT	A		B		C		CKT	TYPE	TRIP AMPS	P	LOAD DESCRIPTION	WIRE SIZE
	REC GROUP 204F, 204E	1	20 A		1	1.26	1.26					2		20 A	1	REC CIRC DESK, SEAT 302	
	REC STACKS, GROUP 204G	1	20 A		3			1.08	0.54			4		20 A	1	REC SEAT 247, DISPLAY 299	
	REC SEATING 305	1	20 A		5					1.26	0.36	6		20 A	1	REC CLASSROOM 204D	
	REC OFFICE 213, 214	1	20 A		7	1.26	1.08					8		20 A	1	REC OFFICE 211, TLT 208	
	REC OFFICE 214, 215	1	20 A		9			1.08	0.72			10		20 A	1	REC OFFICE 212	
	REC BREAK ROOM 218	1	20 A		11					0.72	0.72	12		20 A	1	REC WORKSTATIONS 217	
	REC BREAK ROOM 218	1	20 A		13	0.18	0.30					14	--	20 A	1	EXISTING // ON // VAV BOX	--
6	FRIDGE BREAK ROOM 218	1	20 A	GF	15			0.18	0.30			16	--	20 A	1	EXISTING // ON // VAV BOX	--
	FB FURNITURE SEATING...	1	20 A		17					1.08	0.30	18	--	20 A	1	EXISTING // ON // VAV BOX	--
	FURNITURE SEATING 304	1	20 A		19	0.36	0.50					20	--	20 A	1	EXISTING // ON // VAV BOX	--
--	SPARE	1	20 A	--	21			1.20	0.30			22	--	20 A	1	EXISTING // ON // VAV BOX	--
5 --	SPARE	1	20 A	--	23					1.20	0.30	24	--	20 A	1	EXISTING // ON // VAV BOX	--
--	SPARE	1	20 A	--	25	1.20	0.30					26	--	20 A	1	EXISTING // ON // VAV BOX	--
--	SPARE	1	20 A	--	27			1.20	0.40			28	--	20 A	1	EXISTING // ON // VAV BOX	--
--	SPARE	1	20 A	--	29					0.00	0.30	30	--	20 A	1	EXISTING // ON // VAV BOX	--
4 --	SPARE	1	20 A	--	31	0.00	0.00					32	--	20 A	1	EX // ON // AC CTRL UNIT	--
	REC SECURITY GATE	1	20 A		33			0.18	0.00			34	--	20 A	1	EXISTING // ON	--
					35					7.38	0.00	36	--	20 A	1	EXISTING // ON	--
4 3	PANEL 2LA-1	3	100 A		37	6.32	0.00					38	--	20 A	1	EXISTING // ON	--
					39			7.48	0.00			40	--	20 A	1	EX // ON // COPIER RECEPT	--
--	EX // ON // REC IN MECH RM	1	20 A	--	41					0.00	0.00	42	--	20 A	1	EX // ON // COPIER RECEPT	--
					TOTAL LOAD:	14.02 kVA		14.66 kVA		13.62 kVA							

BREAKER TYPE KEYS:
LO - INDICATES C.B. EQUIPPED WITH "LOCK-ON" DEVICE
GF - INDICATES C.B. IS GROUND FAULT TYPE (5mA FOR PERSONNEL)
ST - INDICATES C.B. EQUIPPED WITH SHUNT TRIP DEVICE
HT - INDICATES C.B. EQUIPPED WITH 30mA GROUND FAULT FOR EQUIPMENT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC	33.06	65.12%	21.53		
Equipment	1.44	100.00%	1.44	**Total Conn. Load:**	42.30 kVA
HVAC	0.00	0.00%	0.00	**Total Est. Demand:**	30.77 kVA
				Total Conn. Current:	117.41 A
				Total Est. Demand Current:	85.41 A

LIGHTING FIXTURE SCHEDULE	
2HA	2LA
2LA-1	

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CONSULTANT LOGO

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SEALS

STATE OF SOUTH CAROLINA — RMF ENGINEERING INC. CHARLESTON, SC C-00831 — REGISTERED ENGINEERS

SOUTH CAROLINA — No. 26365 — 02/25/2026 — BRIAN A. CRUTCHFIELD

MIDLANDS TECHNICAL COLLEGE
AIRPORT LEARNING RESOURCE CENTER
IMPROVEMENTS

H59-6162-CB

1260 Lexington Dr, West Columbia, SC 29170

ISSUE DATE: 11-14-2025
PHASE: CONSTRUCTION DOCUMENT

SHEET ISSUE:

NO.	DATE	DESCRIPTION
4	02-26-2026	ADDENDUM 01

CHECKED BY: DMS
DESIGNED BY: AEJ
DRAWN BY: AEJ

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NO. E-600

PROJ. NO. 3240140.A0