

# PIEDMONT TECHNICAL COLLEGE PTC - E BUILDING FIRE DOOR

GREENWOOD, SC

Project No:14016.00

Date:February 14, 2014

**mcmillan | pazdan | smith**  
architects  
atlanta charleston greenville spartanburg  
po box 8922 greenville, sc 29604 o:864 242 2033 f:864 242 2034  
www.mcmillanpazdan.com

## PROJECT DESCRIPTION:

NEW WORK INCLUDES BUT IS NOT LIMITED TO: THE REMOVAL OF AN EXISTING FIRE SHUTTER TO BE REPLACED WITH NEW RATED WALL CONSTRUCTION AS DEFINED BY THE DRAWINGS. REPAIR AND RE-ALIGNMENT AS NECESSARY OF THE EXISTING WALL AND FLOOR SUBSTRATE AND FINISHES. RUBBER BASE, RELOCATION AND RECONFIGURATION OF THE EXISTING LAY-IN CEILING AND RATED CEILING AND CEILING GRIDS.

THE CONTRACTOR SHALL ACKNOWLEDGE AND RESPECT THE CAMPUS WORKING ENVIRONMENT. ALL PERSONNEL WILL BE SUBJECT TO ACCESS RULES AND PROCEDURES OF THE SCHOOL AND WILL NOT FROTRAVEL WITH THE STUDENTS. AREAS OF THE BUILDING/CAMPUS NOT UNDER THIS RENOVATION SHALL BE OFF LIMITS TO ALL WORKERS. THE SCHOOL RESERVES THE RIGHT TO RECOMMEND, SCHEDULE, OR TERMINATE ANY WORKER WHO VIOLATES THESE CONDITIONS. CONTRACTOR TO CHECK IN AND OUT WITH FACILITIES FOR NAME TAG DAILY. CONSTRUCTION SUPERINTENDENT MUST BE PRESENT DURING CONSTRUCTION ACTIVITIES. PIEDMONT TECHNICAL COLLEGE IS A TOBACCO FREE CAMPUS.

THE OWNER INTENDS TO EXECUTE A CONTRACT IMMEDIATELY FOLLOWING REVIEW AND CONFIRMATION OF BIDS. THE DATE OF COMMENCEMENT SHALL BE ESTABLISHED BY A NOTICE TO PROCEED. THE CONTRACTOR SHOULD PROCEED WITH SUBMITTALS AND EQUIPMENT ORDERING PROCESS IMMEDIATELY UPON EXECUTION OF THE CONTRACT.

## CODE NOTES:

| OSB                                    |      |
|--|------|
| INTERNATIONAL BUILDING CODE            | 2012 |
| INTERNATIONAL ENERGY CONSERVATION CODE | 2009 |
| INTERNATIONAL FIRE CODE                | 2012 |
| NATIONAL ELECTRICAL CODE               | 2011 |
| ICC/ANSI 111.1 - ACCESSIBILITY CODE    | 2009 |

NEW CONSTRUCTION IS IN AN EXISTING NON-SPRINKLED, TWO STORY 31493 SF BUILDING.

LARGE ADDITION AND RENOVATION, INCLUDING THE ADDITION OF THE CURRENT SCOPE WAS CONSTRUCTED IN 1980 AS TYPE IV CONSTRUCTION.

PER IBC 2012 THE OCCUPANCY GROUP IS CLASSIFIED AS (B) BUSINESS AND THE OCCUPANCY LOAD IS 375.

## DRAWING INDEX:

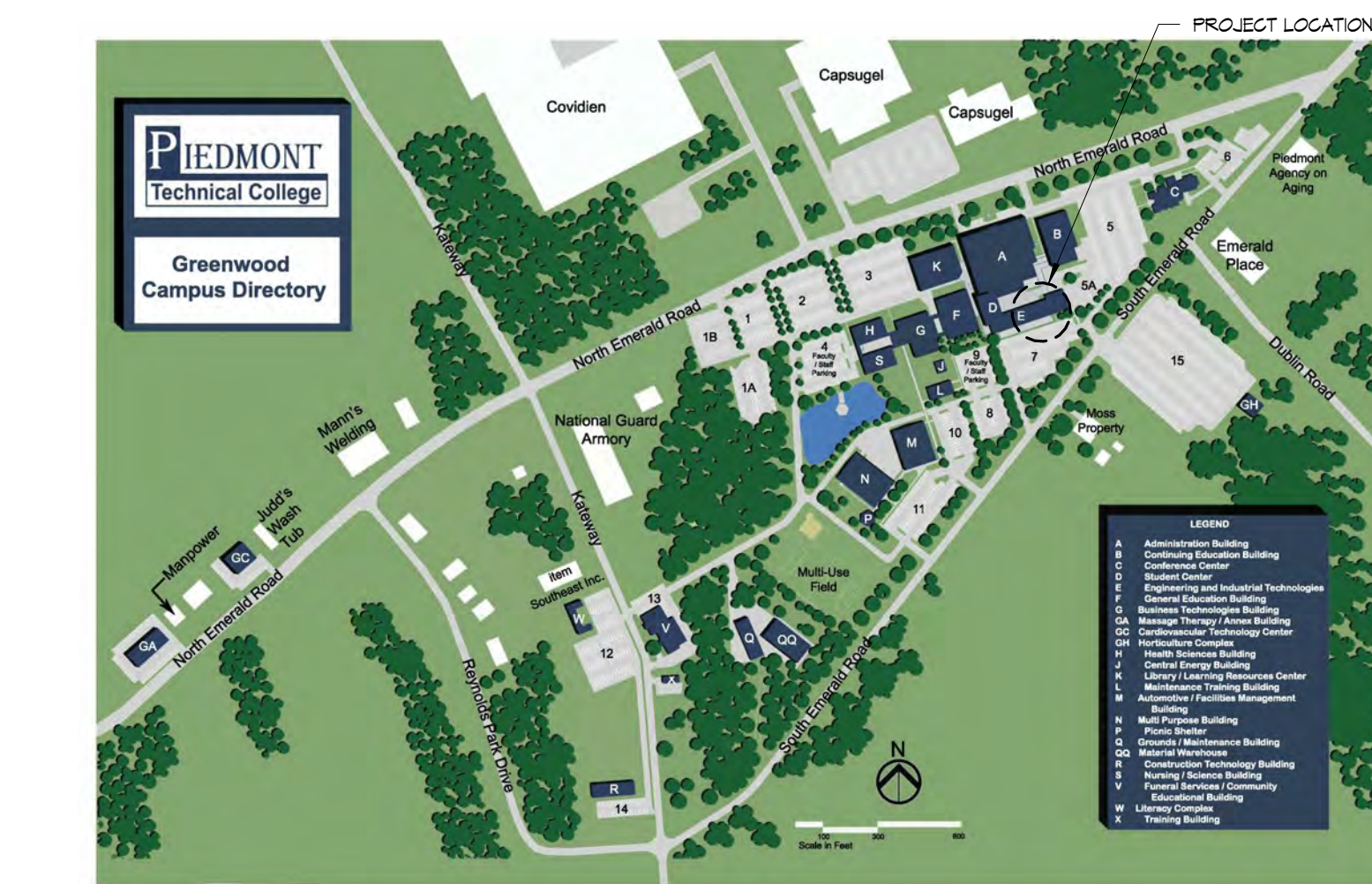
|       |  |
|-------|--|
| A1.00 | PROJECT SCOPE, ARCHITECTURAL PLANS AND LEGENDS |
| E1.00 | FIRE ALARM SYSTEM PLAN, NOTES AND LEGEND       |

## PROJECT CONSULTANTS:

**OWNER**  
Piedmont Technical College  
630 North Emerald Road  
Greenwood, SC 29646  
(864) 941-0331

**ARCHITECT**  
McMillan Pazdan Smith Architecture  
300 E. Broad Street, Suite 300  
Greenville, SC 29601  
(864) 242-2033

**ELECTRICAL ENGINEER**  
Danks Engineering Inc.  
412 Main Street, Suite 201  
Greenwood, SC 29646  
(864) 223-1856



## VICINITY MAP

A1.00 NTS

## RCP LEGEND

|  |  |
|--|--|
|  | EXISTING 2x4 LAY-IN CEILING TILE AND GRID. |
|--|--|

## GENERAL LEGEND

|  |   |
|--|---|
|  | EXISTING WALL CONSTRUCTION TO REMAIN.     |
|  | EXISTING ONE (1) HOUR RATED CONSTRUCTION. |
|  | NEW ONE (1) HOUR RATED CONSTRUCTION.      |
|  | EXISTING TWO (2) HOUR RATED CONSTRUCTION. |

## SYMBOLS LEGEND

|  |                        |
|--|------------------------|
|  | Room name              |
|  | ROOM NAME, ROOM NUMBER |
|  | INTERIOR ELEVATION     |

## SPECIFICATIONS:

1. THE WORK SHALL INCLUDE DEMOLITION OF EXISTING AS DEFINED HEREIN AND THE CONSTRUCTION OF THAT AS DEFINED HEREIN AND ALL REQUIRED CONSTRUCTION FACILITIES AND EQUIPMENT. COORDINATION TO BE EXECUTED AFTER HOURS. CONTRACTOR TO COORDINATE WITH COLLEGE TO DETERMINE AVAILABLE TIMES AND ACCESS. AFTER HOURS ACCESS SHOULD BE COORDINATED WITH CAMPUS POLICE (864) 941-9500.

2. COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF THE WORK WHICH ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. CONCEAL PIPES, DUCTS, WIRING WITHIN THE CONSTRUCTION WHERE FEASIBLE. COORDINATE THE WORK OF EACH TRADE TO ENSURE A COMPLETE PROJECT. FIELD MEASURE EXISTING CONDITIONS PRIOR TO FABRICATION OF THE WORK. NOTIFY THE ARCHITECT OF ANY CONDITIONS WHICH WILL NOT PERMIT THE PROPER INSTALLATION OF THE WORK. MODIFY THE EXISTING CONDITIONS AND SYSTEMS AS REQUIRED TO PROPERLY ACCOMMODATE THE NEW WORK. PROVIDE ALL OTHER MATERIALS AND EQUIPMENT NOT SPECIFICALLY NOTED BUT REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

3. CUTTING AND PATCHING OF MATERIALS USING KNIFE SAW OR DRILL. RESTORE WORK WITH NEW PRODUCTS OF LIKE MATERIAL. FIT WORK TIGHT TO ADJACENT ELEMENTS. MAINTAIN INTEGRITY OF WALL, CEILING OR FLOOR CONSTRUCTION AND COMPLETELY SEAL Voids, FIT WORK TIGHT TO PIPES, SLEEVES, DUCTS, CONDUITS AND OTHER PENETRATIONS THROUGH SURFACES. REFINISH SURFACES TO MATCH ADJACENT FINISHES.

4. PREPARE SUBSTRATE SURFACES PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE. APPLY MANUFACTURER REQUIRED OR RECOMMENDED SUBSTRATE PRIMER, SEALER OR CONDITIONER PRIOR TO APPLYING NEW MATERIAL OR SUBSTANCE IN CONTACT OR BOND.

5. PROTECT EXISTING PROPERTY AND INSTALLED WORK FROM DAMAGE.

6. PROTECT THE WORK AND EXISTING PROPERTY AND OWNER FROM UNAUTHORIZED ENTRY, VANDALISM AND THEFT.

7. PROGRESS CLEANING AND WASTE REMOVAL SHALL BE ACCOMPLISHED ON A DAILY BASIS. COLLECT AND MAINTAIN AREAS FREE OF WASTE MATERIAL, DEBRIS AND RUBBISH. MAINTAIN SITE IN A CLEAN AND ORDERLY CONDITION.

8. FINAL CLEANING SHALL BE EXECUTED PRIOR TO FINAL INSPECTION. CLEAN INTERIOR AND EXTERIOR SURFACES EXPOSED TO VIEW. CLEAN CONSTRUCTION DEBRIS FROM THE SITE. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH AND CONSTRUCTION FACILITIES FROM THE SITE.

9. ADJUSTING SHALL BE ACCOMPLISHED FOR ALL INSTALLED WORK TO ENSURE SMOOTH AND UNHINDERED OPERATION.

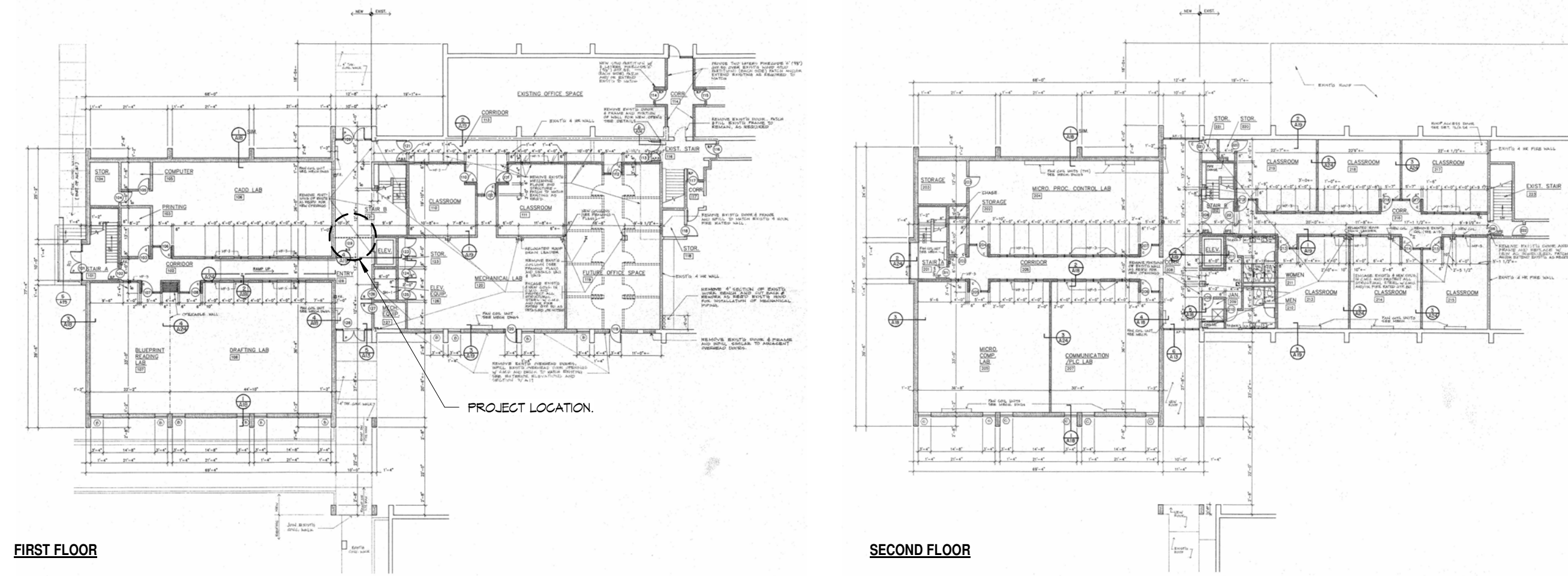
10. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE CODES.

11. CONFORM TO APPLICABLE CODE FOR DEMOLITION, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, SERVICE UTILITIES AND DISCOVERED HAZARDS. PROVIDE, ERECT AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES. ERECT AND MAINTAIN, ERECT AND MAINTAIN TEMPORARY PARTITIONS TO PREVENT SPREAD OF DUST, GEMS AND NOISE. PROTECT EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED.

12. CONTRACTOR TO SUBMIT PRODUCT DATA AND SAMPLES FOR SPECIFIED PRODUCTS FOR OWNER REVIEW AND APPROVAL.

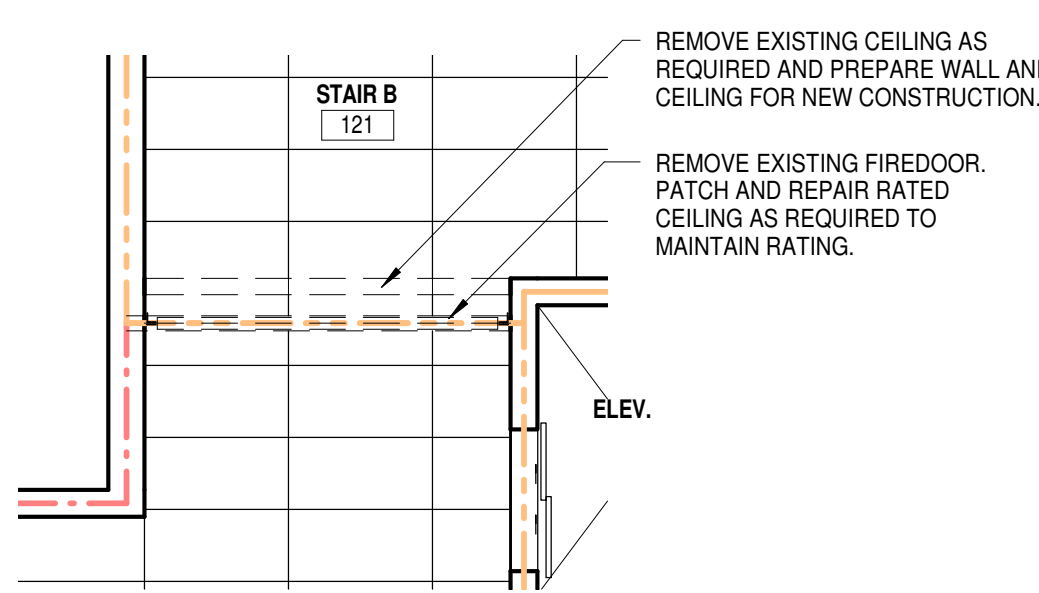
13. THE CONTRACTOR WILL COORDINATE ALL REQUIRED IBC CHAPTER ONE SPECIAL INSPECTIONS WITH THE OWNER'S SELECTED INSPECTION AGENCY.

14. THE BUILDING WILL BE OCCUPIED DURING THE COURSE OF THE CONSTRUCTION. MAINTAIN THE EXISTING BUILDING IN A WEATHER TIGHT CONDITION THROUGHOUT CONSTRUCTION. TAKE PRECAUTIONS NECESSARY TO PROTECT THE BUILDING OCCUPANTS DURING THE CONSTRUCTION PERIOD. KEEP ACCESS TO ELEVATOR AND GARRAGE CLEAR DURING TIMES DESIGNATED BY THE OWNER TO PERMIT SAFE CIRCULATION AND ACCESS.



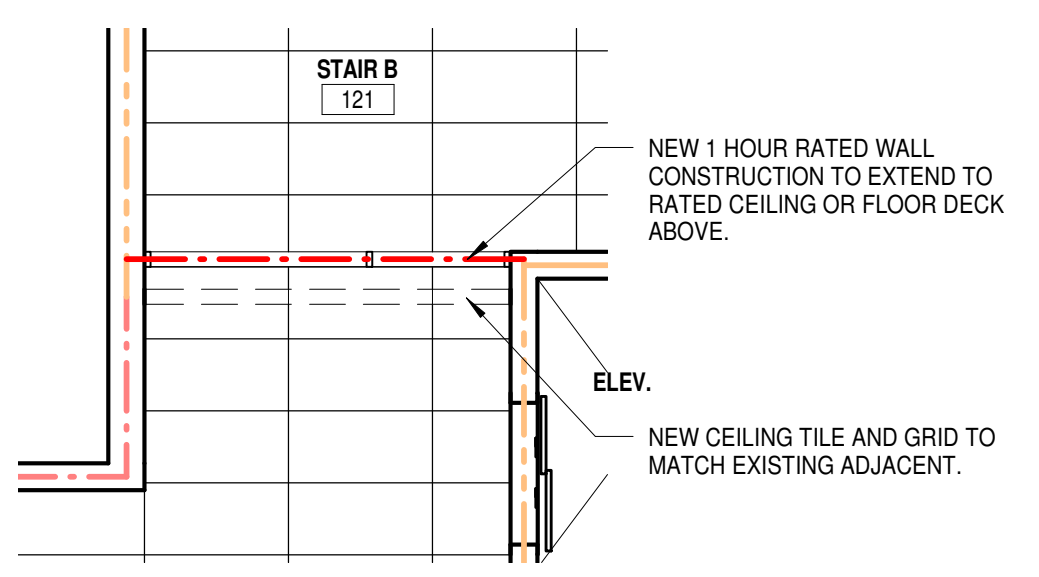
## E BUILDING KEY PLANS

A1.00 1/32" = 1'-0"



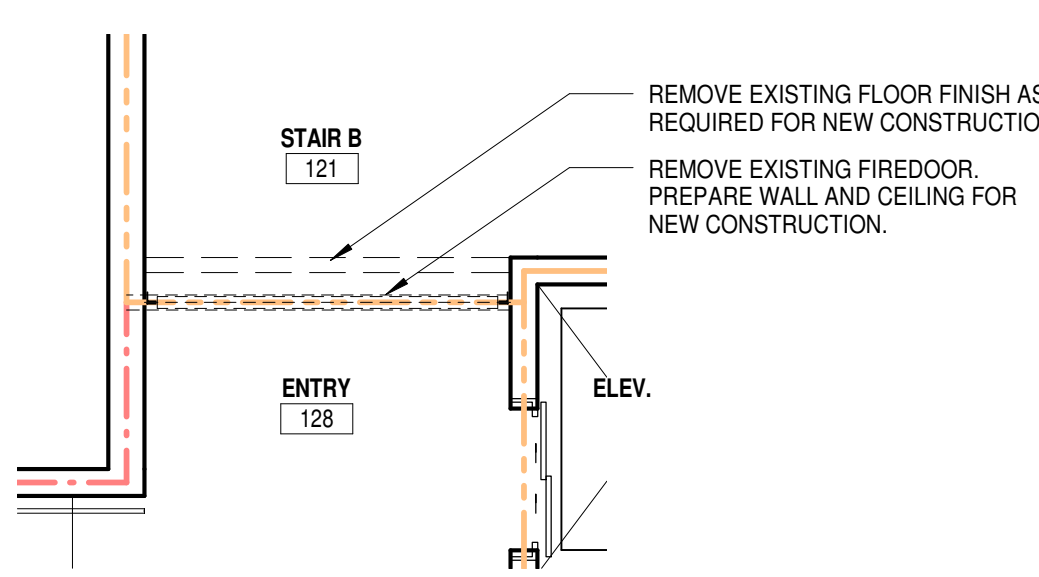
## DEMOLITION RCP

A1.00 3/16" = 1'-0"



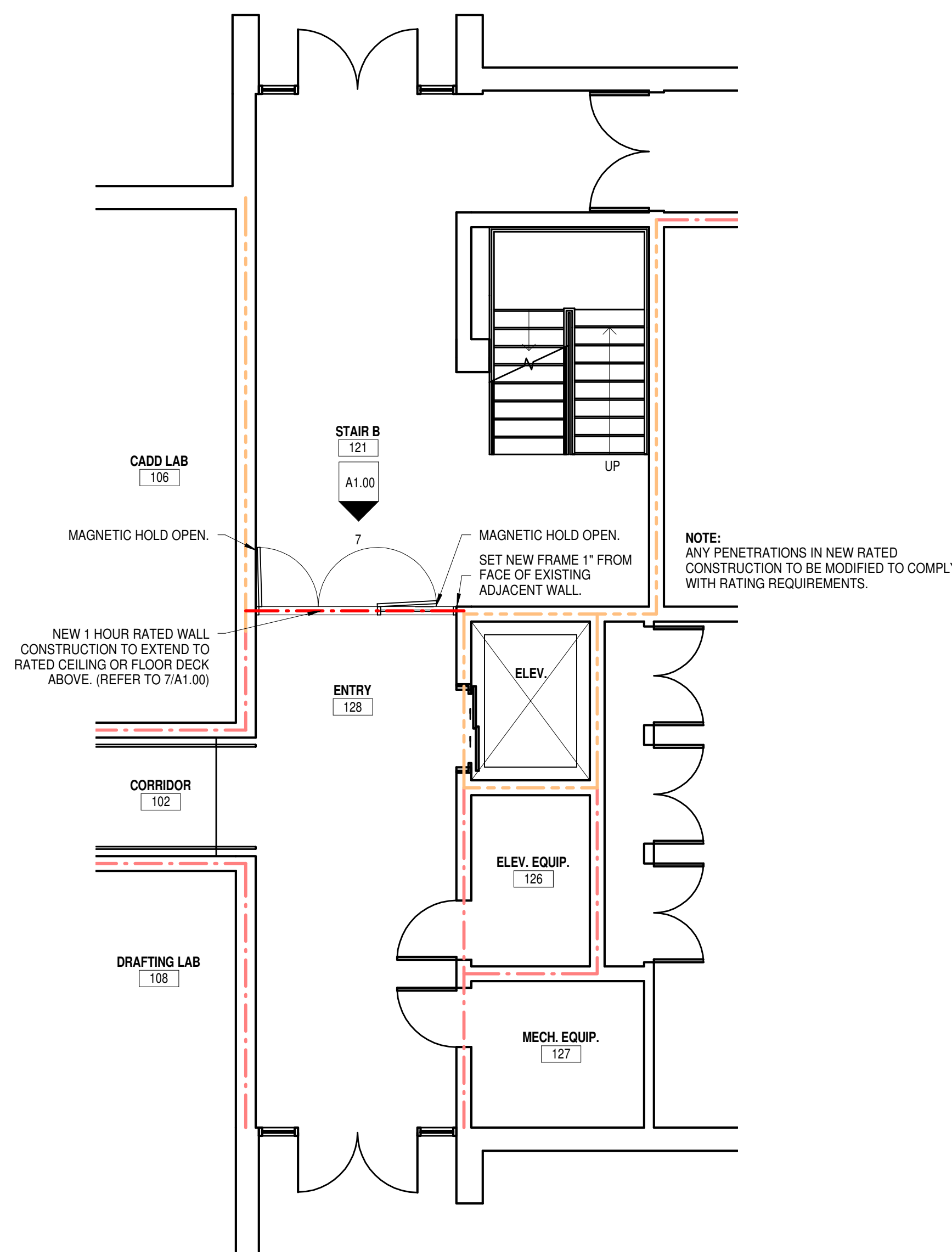
## NEW RCP

A1.00 3/16" = 1'-0"



## DEMOLITION FLOOR PLAN

A1.00 3/16" = 1'-0"



## INTERIOR ELEVATION

A1.00 3/8" = 1'-0"

Piedmont Technical College

E BUILDING FIRE DOOR

Greenwood, SC

**PIEDMONT**  
Technical College

SHEET ISSUE:  
NO. DATE DESCRIPTION BY

PRINCIPAL IN CHARGE: GGS  
PROJECT ARCHITECT: GGS  
DRAWN BY: LRW

SHEET TITLE:  
PROJECT SCOPE,  
ARCHITECTURAL PLANS  
AND LEGENDS

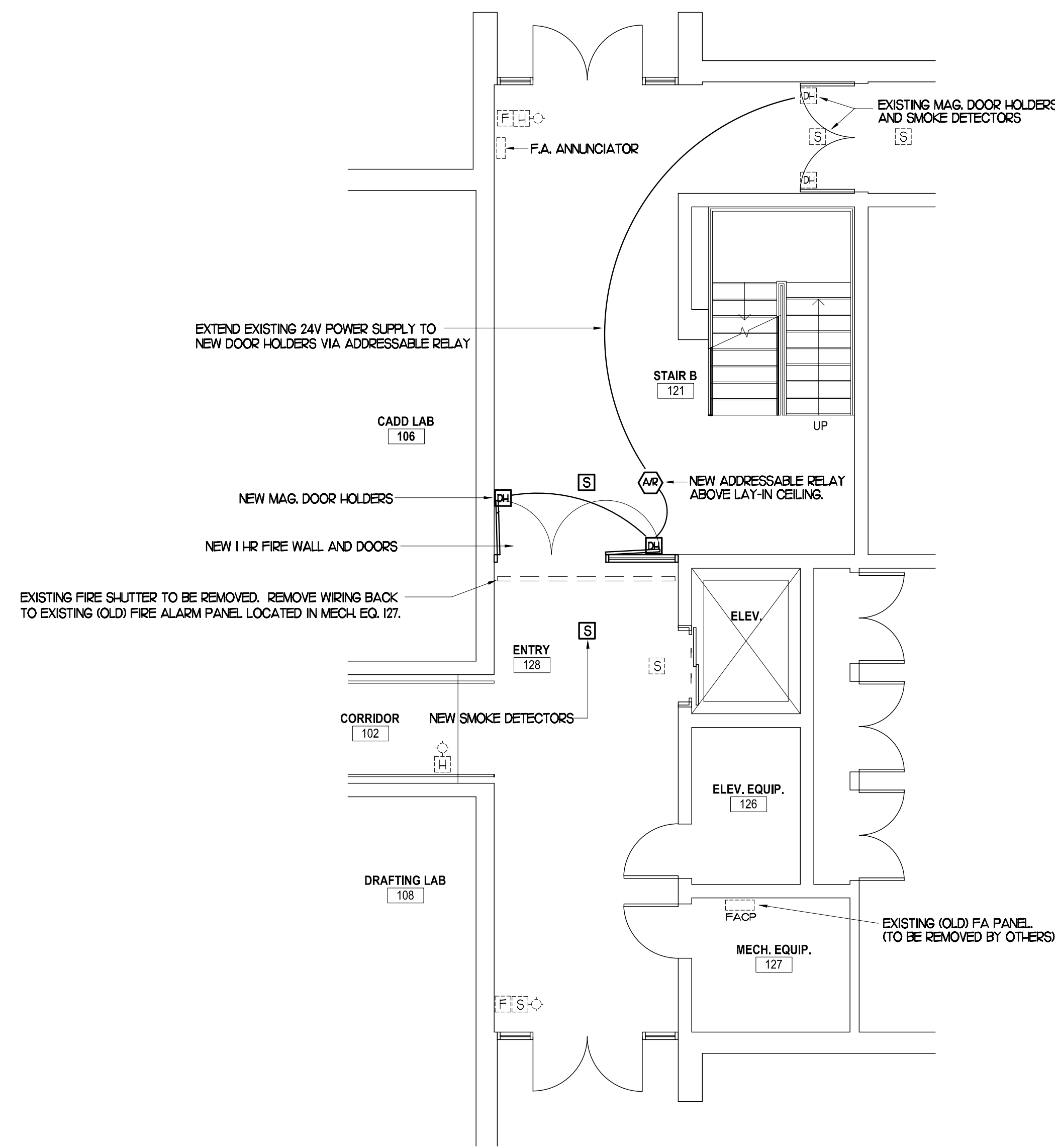
SHEET NO. PROJ. NO.  
A1.00 14016.00

A1.00



LEGEND

- #12 BRANCH CIRCUIT WIRING; LONGER MARKS DENOTES NO. OF CONDUCTORS WITH LONGER MARKS DENOTING NEUTRALS.
- CONDUIT INSTALLED CONCEALED
- PANELBOARD 208Y120V, 3P, 4W.
- NEW SMOKE DETECTOR, CEILING MTD, PHOTOELECTRIC ADDRESSABLE TYPE
- FIRE ALARM CONTROL PANEL (EXISTING)
- NEW MAGNETIC DOOR HOLDER, WALL MOUNTED, 24V.
- NEW FIRE ALARM SYSTEM ADDRESSABLE RELAY
- FIRE ALARM PULL STATION (EXISTING)
- FIRE ALARM HORN / STROBE (EXISTING)
- MAGNETIC DOOR HOLDER, WALL MOUNTED, 24V.
- SMOKE DETECTOR (EXISTING)



- NOTES
- INSTALL MAGNETIC DOOR HOLDERS AT THE TOP OF THE DOORS, APPROX. 6" AFF. COORDINATE EXACT MOUNTING HEIGHT AND LOCATIONS WITH THE S.C. BASED ON THE PARTICULAR DOORS AND HARDWARE USED. LEFT SIDE DOOR HOLDER WILL BE 3" SPACE WALL MOUNTED, AND THE RIGHT SIDE DOOR HOLDER WILL MOUNT ON A PLATE TO BE FINISHED WITH THE STOREFRONT.
  - DROP WIRING TO THE DOOR HOLDERS FROM THE CEILING IN SURFACE METALLIC RACEWAY. PAINT RACEWAY TO MATCH EXISTING WALL FINISH.
  - CEILING MOUNT NEW SMOKE DETECTORS 3 FT. FROM NEW DOOR ON EACH SIDE.
  - ANY PENETRATIONS OF THE NEW FIRE WALL SHALL BE FIRE STOPPED TO 1 HR. RATING.

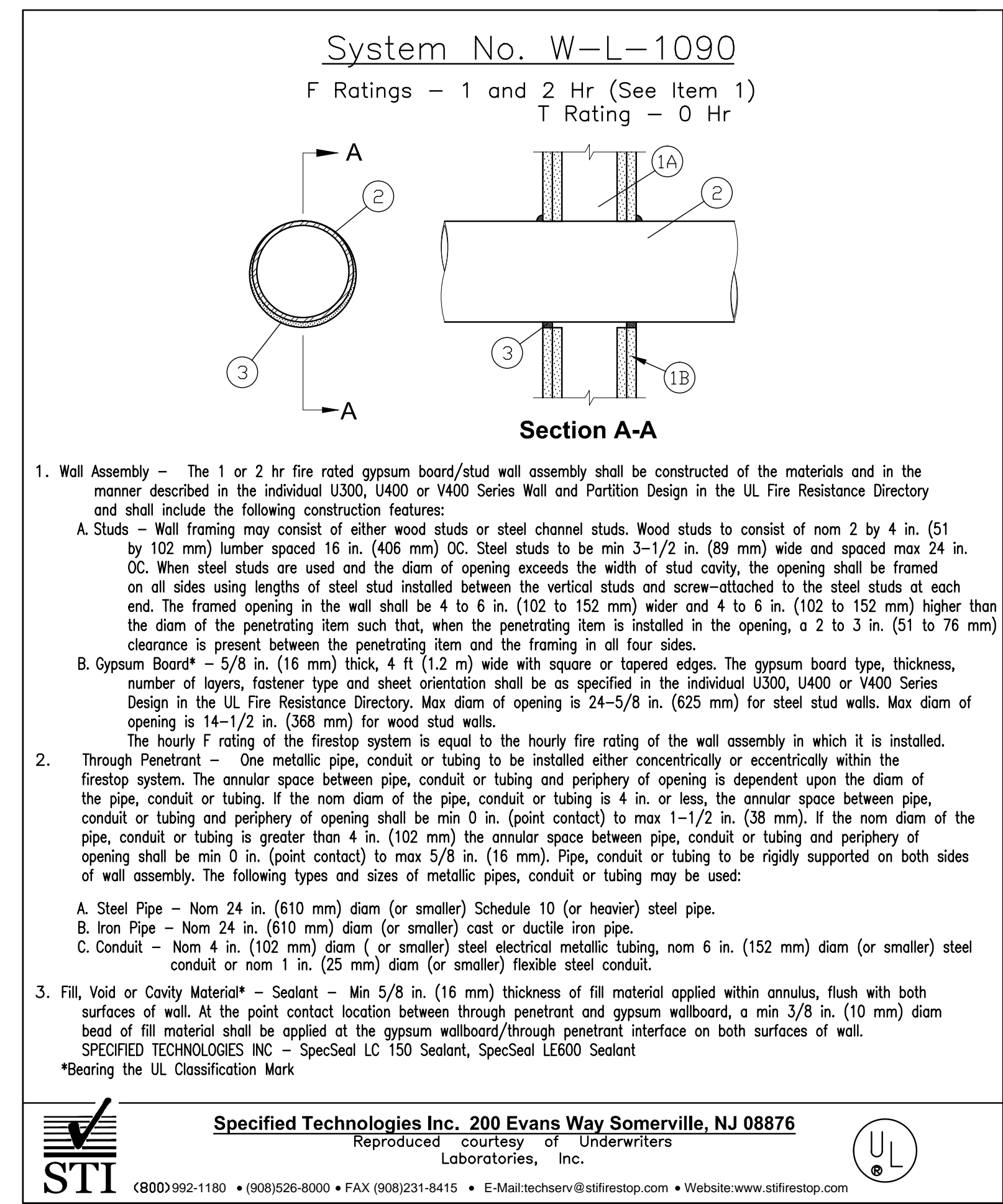
FIRE ALARM PLAN  
3/16" = 1' 0"

CURRENTLY THERE IS A PROJECT UNDERWAY TO REPLACE THE FIRE ALARM SYSTEM THROUGHOUT BUILDING 'E'. (S.C. PROJECT NO. H594773-10) THE FIRE ALARM DEVICES SHOWN AS EXISTING ASSUME COMPLETION OF THAT PROJECT. ALL NEW WORK INDICATED HEREIN MUST BE COMPATIBLE WITH THE NEW SYSTEM INCLUDING WIRING, DEVICES, AND SOFTWARE, AND ALL NEW WORK MUST BE COORDINATED WITH THE CONTRACTOR PERFORMING THE FIRE ALARM REPLACEMENT PROJECT.

FOR INFORMATION REGARDING THE NEW FIRE ALARM SYSTEM PROJECT CONTACT E INTERNATIONAL SECURITY LLC, MR. ANDREW EARLEY, TEL: 843-305-0577.

GENERAL NOTES:

- ALL NEW WORK SHALL MEET THE REQUIREMENTS OF NFPA 72, THE 2012 INTERNATIONAL FIRE CODE, 2012 INTERNATIONAL BUILDING CODE, ANSI A117, AND OTHER APPLICABLE CODES.
- SYSTEM WIRING SHALL BE RUN IN METALLIC CONDUIT. USE E.M.T. IN DRY LOCATIONS NOT SUBJECT TO DAMAGE. WHERE EXPOSED, USE SURFACE METALLIC RACEWAY, WIREMOLD V500 OR EQUAL. SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TWIN-14-1N, SHIELDED OR TWISTED PAIR CABLES SHALL BE PER THE SYSTEM MANUFACTURER'S REQUIREMENTS, BY BELDEN OR APPROVED EQUAL.
- THESE FIRE ALARM SYSTEM ADDITIONS PROVIDE FOR MONITORING AND CONTROL OF A NEW FIRE DOOR. THE DOOR WILL NORMALLY BE HELD OPEN BY MAGNETIC DOOR HOLDERS, WHICH WILL RELEASE UPON UTILITY POWER FAILURE OR DETECTION OF SMOKE BY THE NEW SMOKE DETECTORS LOCATED ON EITHER SIDE OF THE NEW DOOR, OR UPON A GENERAL SYSTEM ALARM. IN ADDITION, AN ALARM CONDITION ON EITHER OF THESE TWO NEW SMOKE DETECTORS SHALL ALSO SOUND A GENERAL EVACUATION ALARM.
- NEW FIRE ALARM DEVICES SHALL BE AS FOLLOWS TO MATCH THOSE USED IN THE CURRENT FIRE ALARM REPLACEMENT PROJECT.
  - SMOKE DETECTORS: EDWARDS SIGA-PS (2), PHOTOELECTRIC, INTELLIGENT TYPE
  - DOOR HOLDERS: MAGLOCK 104-S24120C (2)
  - ADDRESSABLE RELAY: EDWARDS SIGA-CR (1)
- PROVIDE ALL NECESSARY ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM PER NFPA 72 REQUIREMENTS.
- SYSTEM STARTUP, PROGRAMMING, AND TESTING SHALL BE BY AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE.
- PROVIDE SITE SPECIFIC VENDOR DRAWINGS, EQUIPMENT SPECIFICATIONS, WIRING DIAGRAMS, AND CALCULATIONS AS REQUIRED FOR SYSTEM INSTALLATION, MAINTENANCE, AND REVIEW BY CODE OFFICIALS.
- CONDUITS SHALL NOT BE SUPPORTED FROM THE LAY-IN CEILING GRID. INSTEAD, SUPPORT THEM INDEPENDENTLY, DIRECTLY FROM THE BUILDING STRUCTURE.
- WHERE SMOKE DETECTORS OR OTHER EMERGENCY COMPONENTS (IF-ES) ARE CEILING MOUNTED, DO NOT SUPPORT THEM SOLELY FROM THE CEILING SYSTEM. PROVIDE A RECESSED METALLIC BOX IN THE CEILING FOR MOUNTING THE DEVICE, AND SUPPORT THE BOX INDEPENDENTLY OF THE CEILING USING STRUT AND MIN. TWO HANGER WIRES.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER IN OPERATION OF THE SYSTEM. ADDITIONALLY, IF REQUIRED HE SHALL TEST AND DEMONSTRATE PROPER OPERATION OF THE SYSTEM TO CODE OFFICIALS.



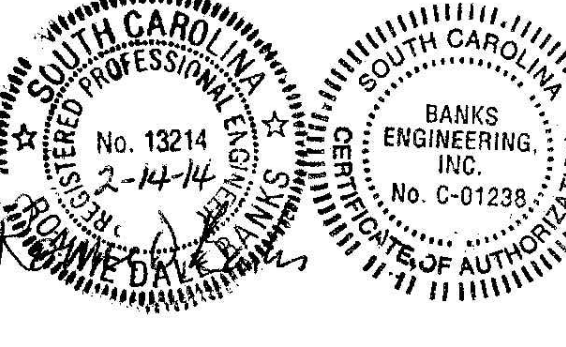
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mcmillan | pazdan | smith  
architecture  
ashville atlanta charleston greenville spartanburg  
po box 8922 greenville, sc 29604 or 864 242 2412 2033 1864 242 2034  
www.mcmillanpazdan.com

**BANKS ENGINEERING INC.**  
402 MAIN ST. SUITE 201  
GREENWOOD, SOUTH CAROLINA, 29646  
TEL: 864-223-9556  
E-MAIL: rbanks@banks-eng.com



Piedmont Technical College  
E BUILDING FIRE DOOR  
Greenwood, SC

**PIEDMONT**  
Technical College

SHEET ISSUE:

| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
|     |      |             |    |

PROFESSOR IN CHARGE: GDS  
PROJECT ARCHITECT: GDS  
DRAWN BY: RDB

SHEET TITLE:  
FIRE ALARM SYSTEM PLAN  
NOTES, AND LEGEND

SHEET NO. 14016.00

E1.00