NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING

USC PROJECT NO: H27-D153-JM

UNIVERSITY OF SOUTH CAROLINA COLUMBIA, SOUTH CAROLINA

PROJECT CONTACTS

ABBREVIATIONS

NOTED ABOVE CONTACT ARCHITECT.

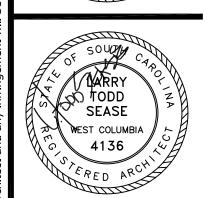
REVISIONS: MECHANICAL A.C.T. ACOUSTICAL CEILING TILE JOB SITE TITLE, INDEX & ABBREVIATIONS OSE COMMENTS ALUM ALUMINUM MFR MANUFACTURER 901 Sumter St, Columbia SC BD BOARD MARKER BOARD FIRE ALARM SYMBOLS, DETAILS, RISER \$ NOTES BLKG MASONRY OPENING BLOCKING FIRE ALARM BASEMENT LEVEL DEMOLITION CONTRACTOR'S OFFICE C.J. CONTROL JOINT NOT IN CONTRACT FIRE ALARM FIRST FLOOR DEMOLITION C.T. CERAMIC TILE O.C. ON CENTER FIRE ALARM SECOND FLOOR DEMOLITION E004 CMU CONCRETE MASONRY UNIT O.D. OUTSIDE DIAMETER FIRE ALARM THIRD FLOOR DEMOLITION CONC CONCRETE OPENING FIRE ALARM FOURTH FLOOR DEMOLITION OWNER CONT CONTINUOUS PLATE FIRE ALARM FIFTH FLOOR DEMOLITION University of South Carolina CPT CARPET PLUMBING E008 FIRE ALARM SIXTH FLOOR DEMOLITION Pete Fisher, Project Manager 803-777-9346 CR CLASSROOM PR PAIR FIRE ALARM SEVENTH FLOOR DEMOLITION CHECKED BY: DTL. PRESSURE TREATED DETAIL FIRE ALARM PENTHOUSE LEVEL DEMOLITION ARCHITECT REINF E.J. EXPANSION JOINT REINFORCED EIOI FIRE ALARM BASEMENT LEVEL ELEC. ELECTRICAL REQ'D REQUIRED Jumper Carter Sease Architects, P.A. 803-791-1020 FIRE ALARM FIRST FLOOR E102 EQ SCHED SCHEDULE EQUAL FIRE ALARM SECOND FLOOR EXIST. EXISTING SHT. SHEET ELECTRICAL FIRE ALARM THIRD FLOOR E104 08/24/2011 SIM. EXP **EXPANSION** SIMILAR 803-765-1007 E105 FIRE ALARM FOURTH FLOOR Sims Group Engineers, Inc. SS FE STAINLESS STEEL FIRE EXTINGUISHER FIRE ALARM FIFTH FLOOR STL. SHEET TITLE: FEC FIRE EXTINGUISHER CABINET STEEL FIRE ALARM SIXTH FLOOR SWC FF SOLID WOOD CORE FINISH FLOOR FIRE ALARM SEVENTH FLOOR FLR TB TACKBOARD FLOOR FIRE ALARM ROOF LEVEL TITLE, INDEX, & FTG FOOTING TEMPERED FIRE ALARM PENTHOUSE LEVEL GALV TOIL GALVANIZED TOILET FIRE STOPPING DETAILS FIRE BARRIER LEGEND GC TREATED GENERAL CONTRACTOR TYP. GWB GYPSUM WALL BOARD TYPICAL HOLLOW METAL VCT НМ VINYL COMPOSITION TILE HORIZ VERT HORIZONTAL VERTICAL I.D. INSIDE DIAMETER WD WOOD ----- I-HOUR RATED FIRE BARRIER (ASSUMED) INSUL INSULATION ----- 2-HOUR RATED FIRE BARRIER (ASSUMED) NOTE: FLOOR ASSEMBLIES ASSUMED TO BE 2-HOUR RATED NOTE: FOR ABBREVIATIONS NOT

INDEX OF DRAWINGS

VICINITY MAP

Carter





A @ O NEW FIRE A JAMES F. I UNIVERSITY

BID DOCUMENTS

ADDED 4/5/12

11104

ABBRÉVIATIONS

FIRE ALARM SYSTEM NOTES

- ALL FIRE ALARM SYSTEM WIRING SHALL BE RUN ABOVE GRADE IN WALLS AND ABOVE CEILING IN METAL RACEWAYS. RACEWAYS SHALL BE RUN CONCEALED WHERE PRACTICAL. FIRE ALARM WIRING MAY NOT BE RUN UNDERGROUND OR IN SLAB UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- VERIFY WIRING REQUIREMENTS WITH EQUIPMENT MFR PRIOR TO ROUGH—IN AND INSTALL ACCORDINGLY. NOTIFICATION APPLIANCE CIRCUITS SHALL BE RUN AS REQ'D TO PROVIDE A 3-PULSE TEMPORAL AUDIBLE SIGNAL WITHOUT COMPROMISING THE OPERATION OF THE STROBES.
- 3. PROVIDE SYNCHRONIZATION OF ALL STROBE LIGHTS.
- . FIRE ALARM SYSTEM TO BE CLASS B SUPERVISED SYSTEM (STYLE B INITIATING DEVICE CIRCUITS, STYLE 4 SIGNALING LINE CIRCUITS, CLASS B NOTIFICATION APPLIANCE CIRCUITS). FURNISH & INSTALL END-OF-LINE RESISTORS WHERE REQ'D. ONLY SPLICES ALLOWED ARE TO BE LOCATED IN RISER BOXES ONLY. SPLICES SHALL BE MADE WITH THE USE OF WIRE TERMINALS AND NOT WIRE NUTS.
- EQUIPMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS INDICATING EXACT ROUTING OF RACEWAYS AND NUMBER AND SIZE OF CONDUCTORS IN RACEWAYS FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR SHALL USE THE REVIEWED DRAWING FOR ROUGH-IN OF FIRE ALARM SYSTEM RACEWAYS AND OUTLET BOXES.
- SMOKE DETECTORS SHALL BE LOCATED AS NEAR THE CENTER OF THE ROOM AS PRACTICAL. DO NOT LOCATE ANY DETECTOR WITHIN 3-FT. OF AN HVAC SUPPLY GRILLE. PROVIDE AUXILIARY CONTACT ON SMOKE DETECTORS LOCATED IN CORRIDORS AT SMOKE DOORS. WIRE MAGNETIC DOOR HOLDERS THRU AUXILIARY CONTACT TO RELEASE DOOR WHEN THOSE DETECTORS ARE ACTUATED. SMOKE DETECTORS SHALL BE PROGRAMMED FOR A 60 SECOND VERIFICATION BEFORE GOING INTO ALARM.
- . DUCT DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM SYSTEM SUPPLIER AND INSTALLED BY A QUALIFIED HVAC TECHNICIAN UNDER DIVISION 28. FIRE ALARM SYSTEM WIRING WILL FURNISHED & INSTALLED BE BY THE FIRE ALARM SYSTEM SUPPLIER UNDER DIVISION 28. HVAC CONTROL WIRING WILL BE FURNISHED & INSTALLED BY THE MECHANICAL CONTRACTOR UNDER DIVISION 28. PROVIDE AUXILIARY CONTACT WITH EACH DUCT DETECTOR FOR USE BY HVAC CONTROLS.
 - DUCT DETECTORS TO BE LOCATED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE THE LOCATION OF EACH DUCT DETECTOR IN THE FIELD WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN TO INSURE COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS.
 - PROVIDE DOCUMENTATION OF DUCT DETECTOR TESTING PER NFPA 72, 2010 EDITION TABLE 10.4.2.2-14(G)(4) AIR DUCT DETECTORS SHALL BE TESTED/INSPECTED TO ENSURE THAT THE DEVICE WILL SAMPLE THE AIRSTREAM. THE TEST SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- . LOCATE MANUAL PULL STATIONS WITHIN 5'-0" OF THE EXIT DOOR PER NFPA AND IBC REQUIREMENTS. PROVIDE ANY SPECIAL ADAPTER PLATES OR COVER PLATES REQ'D TO MOUNT PULL STATIONS IN DOOR MULLIONS WHERE APPLICABLE.
- . EACH SPEAKER/STROBE LOCATED AT THE END OF A CORRIDOR MUST BE WITHIN 15'-0" OF THE END WALL PER NFPA 72, 2010 EDITION. HORN/STROBES IN CLASSROOMS AND OFFICES MUST BE LOCATED TO COMPLY WITH TABLE 7.5.4.3.1(a) & TABLE 7.5.4.3.1(b) OF NFPA 72. DO NOT ADJUST LOCATIONS OF HORN/STROBES WITHOUT CONSULTING WITH THE ENGINEER AND OBTAINING WRITTEN PERMISSION.
- 10. FIELD VERIFY LOCATION OF FIRE ALARM PANEL "FAC" AND/OR REMOTE FIRE ALARM ANNUNCIATOR "FAA" WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
- 11. IN ADDITION TO SMOKE DETECTORS SHOWN, CONTRACTOR WILL BE REQUIRED TO FURNISH & INSTALL SMOKE DETECTORS IN ALL ROOMS WITH FIRE ALARM POWER SUPPLIES AND POWER BOOSTERS. IN ADDITION TO 120V CIRCUITS SHOWN, CONTRACTOR SHALL BE REQUIRED TO FURNISH & INSTALL ANY 120V CIRCUITS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
- 12. ADDITIONAL FIRE ALARM DEVICES: THE ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM INSTALLER SHALL FURNISH AND INSTALL ADDITIONAL FIRE ALARM DEVICES AT THE DISCRECTION OF THE ARCHITECT/ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION IN THE FOLLOWING QUANTITIES:
- (4) SPEAKER/STROBE LIGHTS
- (4) STROBE LIGHTS (6) DUCT MOUNTED SMOKE DETECTORS
- (2) MANUAL PULL STATIONS
- (4) CEILING MOUNTED SMOKE OR HEAT DETECTORS

• (6) FIRE/SMOKE DAMPER CONNECTIONS WITH REMOTE INDICATORS.

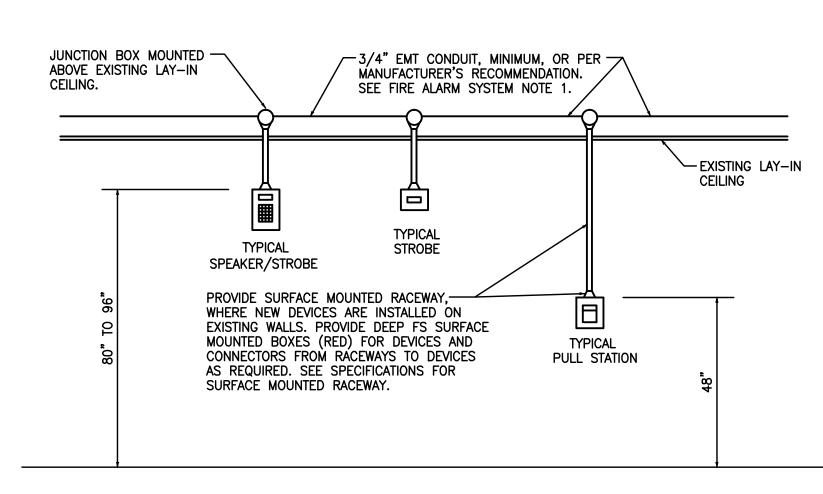
INCLUDE COMPLETE COSTS TO FURNISH AND INSTALL THE ABOVE ADDITIONAL DEVICES IN BASE BID, INCLUDING ALL CONDUIT, OUTLET BOXES, 120V POWER, WIRING, AND SYSTEM PROGRAMMING. ANY DEVICES NOT USED SHALL BE TURNED OVER TO THE OWNER AS SPARE DEVICES AT THE END OF THE PROJECT.

13. FACP PANEL AND DIGITAL VOICE COMMAND CENTER SHALL BE CAPABLE OF ADDING ASI MASS NOTIFICATION

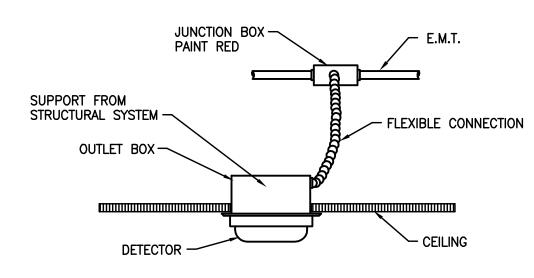
SYSTEM COMPONENTS TO THE PANEL. SUPPLY ALL NECESSARY COMMUNICATION CARDS AND SYSTEM COMPONENTS FOR ADDITION OF THIS SYSTEM BY THE UNIVERSITY IN THE FUTURE.	
FIRE ALARM SYMBOLS	
FACP	FIRE ALARM CONTROL PANEL OR REMOTE ANNUNCIATOR.
FAA	FIRE ALARM REMOTE ANNUNCIATOR.
F	FIRE ALARM MANUAL PULL STATION. 48" AFF.
30	FIRE ALARM SPEAKER AND FLASHING LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQ'TS.
₹	SAME AS ABOVE, EXCEPT CEILING MOUNTED SPEAKER AND FLASHING LIGHT.
	FIRE ALARM FLASHING LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQ'TS.
<u>\$</u>	SAME AS ABOVE, EXCEPT CEILING MOUNTED FLASHING LIGHT.
S	SMOKE DETECTOR. CEILING MOUNTED, UNLESS NOTED.
lacktriangle	HEAT DETECTOR. CEILING MOUNTED, UNLESS NOTED.
©	DUCT MOUNTED SMOKE DETECTOR, FURNISHED & INSTALLED UNDER DIVISION 28. SEE ELECTRICAL SPECIFICATIONS AND DETAIL ON DRAWINGS FOR WIRING.
(MM)	FIRE ALARM MONITORING MODULE.
CM	FIRE ALARM CONTROL MODULE.
(SD)	FIRE / SMOKE DAMPER, FURNISHED & INSTALLED BY MECHANICAL CONTRACTOR, POWER WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DUCT DETECTOR AS REQUIRED BY CODE AND AS SHOWN ON DRAWINGS. PROVIDE 120V CONNECTION AS REQUIRED.
	EXISTING WALL OR CEILING MOUNTED HORN/STROBE LIGHT TO BE REMOVED. SEE DEMOLITION PLANS.
	EXISTING WALL OR CEILING MOUNTED STROBE LIGHT TO BE REMOVED. SEE DEMOLITION PLANS.
Œ	EXISTING CEILING MOUNTED SMOKE OR HEAT DETECTOR TO BE REMOVED. SEE DEMOLITION PLAN.
(ED)	EXISTING DUCT MOUNTED SMOKE DETECTOR TO BE REPLACED. SEE DEMOLITION PLANS.
E	EXISTING MANUAL PULL STATION TO BE REMOVED/REPLACED. SEE DEMOLITION PLANS.

ELECTRICAL DEMOLITION NOTES

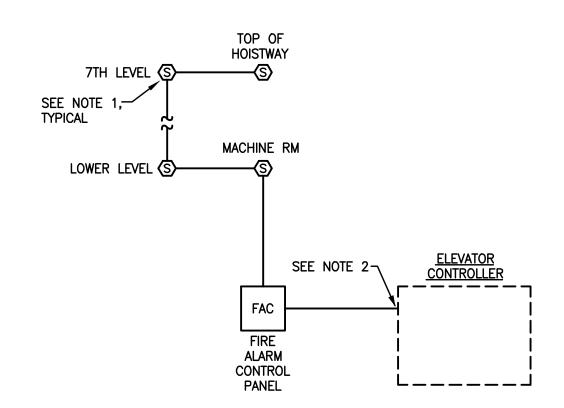
- FD1. THE EXISTING FIRE ALARM SYSTEM SHALL BE DEMOLISHED COMPLETELY AND A NEW SYSTEM INSTALLED. THE EXISTING FIRE ALARM SYSTEM MUST REMAIN COMPLETE AND OPERATIONAL DURING THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNLESS SPECIFICALLY PHASED WITH THE OWNER AND OFFICE OF SCHOOL FACILITIES. ONCE NEW SYSTEM HAS BEEN INSTALLED, THE EXISTING SYSTEM CAN BE DEMOLISHED.
- FD2. IN ALL AREAS WHERE EXISTING FIRE ALARM DEVICES ARE BEING REMOVED, AND WHERE OTHER DEMOLITION WORK IS OCCURRING, REMOVE ALL EXISTING FIRE ALARM DEVICES AND OTHER RELATED EQUIPMENT NO LONGER IN USE, AND ALL WIRING AND CONDUIT NOT BEING REUSED. EXISTING CONDUIT RUN CONCEALED IN EXISTING WALLS NOT BEING REMOVED AND/OR REPLACED MAY BE ABANDONED. WHERE EXISTING DEVICES ARE SURFACE MOUNTED, THE EXISTING DEVICE, BOX, CONDUIT AND WIRE MUST BE REMOVED TO A POINT ABOVE THE FINISH CEILING AND THEN ABANDONED.



TYPICAL ELEVATIONS - NEW WALL MOUNTED DEVICES



SMOKE DETECTOR INSTALLATION DETAIL



ELEVATOR NOTES

- 1. LOCATE SMOKE DETECTORS IN LOBBIES AND MACHINE ROOM ON CEILING NEAR CENTER OF ROOM, 36" FROM ANY AIR VENT. INSTALL ON EACH FLOOR AS REQUIRED.
- 2. TIE IN FAC PANEL TO ELEVATOR CONTROLLER PER THE MFR'S RECOMMENDATIONS SO THAT ELEVATOR RECALL OCCURS UPON ACTIVATION OF THE LOBBY OR MACHINE ROOM DETECTORS. PROVIDE ALL RELAYS & CONTROL MODULES NECESSARY TO SEND THE ELEVATOR RECALL SIGNALS REQ'D BY ASME 17.1. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO STARTING WORK TO AVOID CONFLICTS.
- 3. REFER TO FIRE ALARM PLAN FOR ACTUAL WIRING OF DETECTORS.

ELEVATOR RETROFIT NOTES:

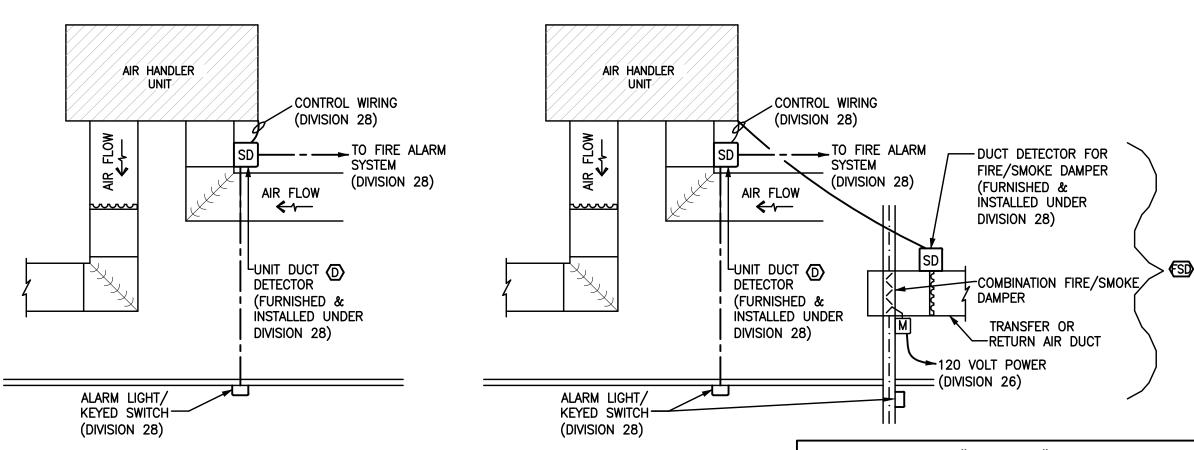
THE EXISTING ELEVATORS (TOTAL OF 3) SHALL BE RETROFITTED TO PROVIDE A FIREMAN SAFETY WARNING SYSTEM (FIRE HELMET/HAT) PER THE USC FIRE MARSHAL PER ANSI/ASME A17.1. THIS SYSTEM AND ASSOCIATED FA CIRCUITS WILL NEED TO BE PROVIDED IN EACH INDIVIDUAL HOISTWAY AND MACHINE ROOM.

OPERATION - FIREFIGHTER'S HELMET (HAT) SHALL:

- BURN STEADY ON WHEN ELEVATOR IS PLACED IN BYPASS BY SERVICE KEY. 2. FLASH IF THE SMOKE DETECTOR IS ACTIVATED IN THAT ELEVATORS PARTICULAR HOISTWAY OR ASSOCIATED MACHINE ROOM.
- THE ELEVATOR EQUIPMENT MANUFACTURER AND THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SAFETY WARNING SYSTEM REQUIREMENTS OF THE ELEVATOR PRIOR TO STARTING WORK, AND SHALL REVISE THE WIRING DIAGRAM TO REFLECT THE ACTUAL EQUIPMENT BEING SUPPLIED, AT NO COST TO THE OWNER OR THE ENGINEER.

ELEVATOR RISER DIAGRAM (Non-Sprinkled Building)

NOT TO SCALE



UNIT DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. CONNECTION TO FIRE ALARM SYSTEM SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. ALARM LIGHT & WIRING SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. HVAC CONTROL AND INTERLOCK WIRING SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL ALL CONDUIT AND BOXES NECESSARY FOR ALARM LIGHT/KEYED SWITCH, LOCATE AS DIRECTED IN FIELD. SEE FIRE ALARM NOTES FOR LOCATION AND TESTING OF DUCT MOUNTED SMOKE DETECTORS.

HVAC AUTOMATIC FAN SHUTDOWN

MEZZANINE LEVEL INITIATING LOOP(S)

ROOF LEVEL INITIATING LOOP(S)

7th LEVEL INITIATING LOOP(S)

7th LEVEL ALARM LOOP(S)

6th LEVEL INITIATING LOOP(S)

6th LEVEL ALARM LOOP(S)

5th LEVEL INITIATING LOOP(S)

5th LEVEL ALARM LOOP(S)

4th LEVEL INITIATING LOOP(S)

4th LEVEL ALARM LOOP(S)

3rd LEVEL INITIATING LOOP(S)

3rd LEVEL ALARM LOOP(S)

2nd LEVEL INITIATING LOOP(S)

2nd LEVEL ALARM LOOP(S)

REMOTE ANNUNCIATOR

FAA MIC

REMOTE VOICE CNTL

PROVIDE SURGE PROTECTION ON BOTH

—POWER AND OUTSIDE COMMUNICATION

LINES. SEE SPECIFICATIONS (TYPICAL).

PARTIAL FIRE ALARM RISER DIAGRAM

INITIATING LOOP(S)

ALARM LOOP(S)

ALARM VOICE COMMAND

MECH 125

CONTROL

MECH 125

SURGE

ROOF LEVEL ALARM LOOP(S)

PENTHOUSE LEVEL

ROOF LEVEL

SEVENTH LEVEL

SIXTH LEVEL

FIFTH LEVEL

FOURTH LEVEL

THIRD LEVEL

SECOND LEVEL

FIRST LEVEL

PER NFPA 72.

TO TELE. BOARD.

DIGITAL COMMUNICATOR,

SEE SPECS.

20A/1P SPARE BREAKER

MARK BREAKER IN RED, LABEL AS

"FIRE ALARM CIRCUIT CONTROL", AND

PROVIDE WITH MFR's LOCKING DEVICE

IN PANEL ELECT. ROOM 119C.

THE FIRE ALARM MANUFACTURER IS TO PROVIDE A "HOT-KEY" TO OPERATED THE SHUT DOWN OF ALL AHU UNITS. A SUPERVISED PROGRAMMABLE "HOT KEY" FOR ALL AHU SHUTDOWN DEFEAT MODULES MUST BE PROVIDED AT THE FACP AND THE REMOTE ANNUNCIATOR AS DICTATED BY THE LOCAL USC FIRE MARSHAL. THIS SWITCH MUST INDICATE "NORMAL" OR "OFF NORMAL".

STANDPIPE FIRE PUMP SYSTEM MONITORING NOTE: FURNISH & INSTALL MONITORING MODULES AS NEEDED

ALARM AND SUPERVISORY SIGNALS SHALL BE SENT TO THE FIRE ALARM SYSTEM TO INDICATE A PUMP RUNNING

CONDITION (ALARM), LOSS OF LINE POWER (SUPERVISORY)

AND FAILURE TO START ON CONTROLLERS (SUPERVISORY)

NO CHANGEORDER WILL BE ISSUED FOR ADDITIONAL WORK NOT INDICATED ON THE DRAWINGS BUT REQ'D TO PROPERLY MONITOR THE SPRINKLER SYSTEM.

FLOW TAMPER

SEE FIRE ALARM SYSTEM NOTES -

AND HVAC AUTOMATIC FAN

SHUTDOWN DETAIL, TYPICAL.

<u>AHU SHUT DOWN "HOT—KEY"</u> H CARO

SIMS GROUP ZENGINEERS, INC. No. C03104

Architects

West Columbia

South Carolina

412 Meeting Street



CAROLINA FOR NG 9 RE NEW F

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

REVISIONS:

08/24/2011

SHEET TITLE:

FIRE ALARM SYMBOLS, DETAILS, RISER AND NOTES

SIMS GROUP ENGINEERS, INC. 800 Columbiana Drive, Suite 208 Irmo, South Carolina 29063 Phone: (803) 765-1007 Fax: (803) 765-1030 www.simsgroupusa.com

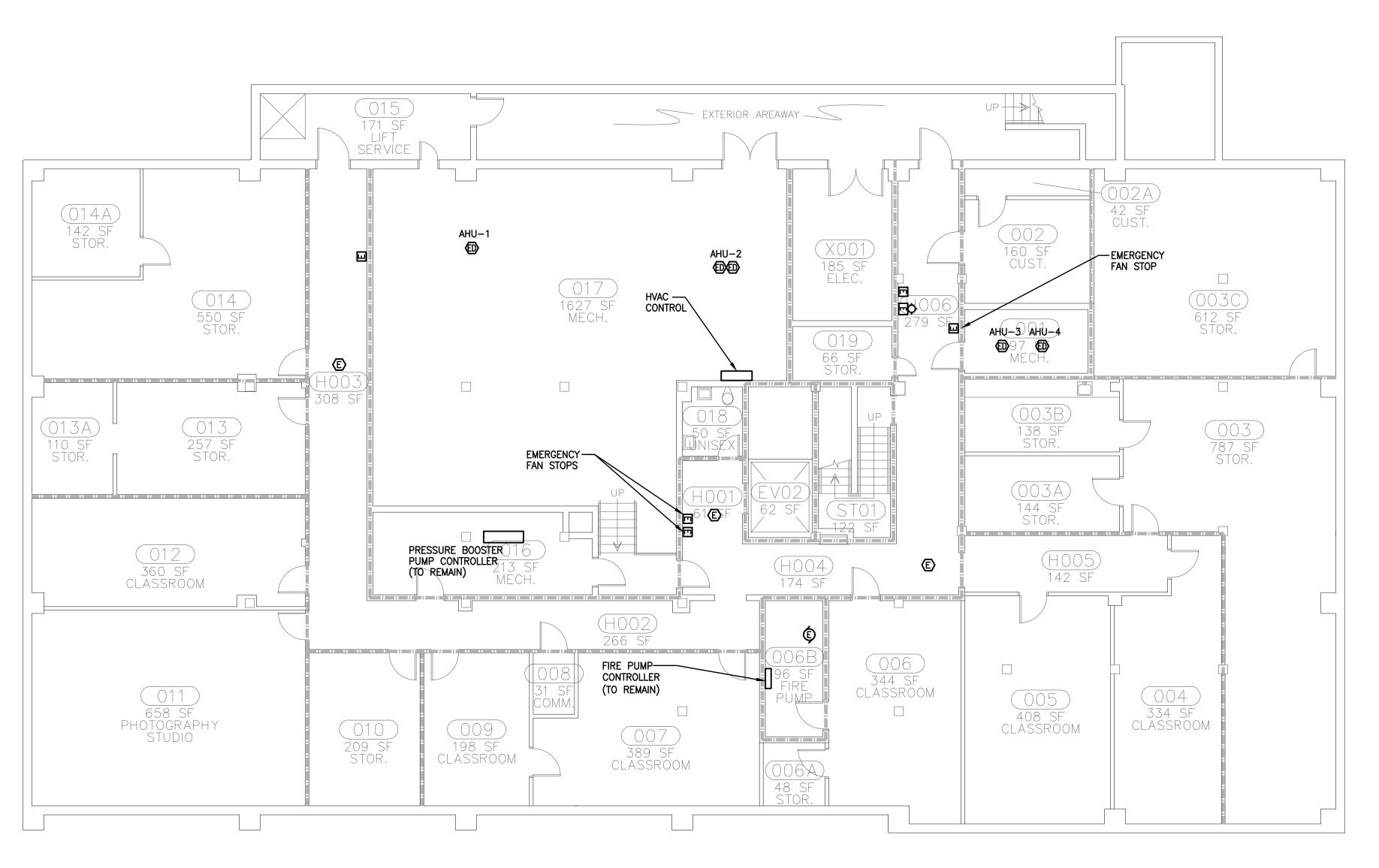
BID SET

AHU-XX 団O AHU-XX

(EOL)

 $^{\prime}$ see fire pump system -

MONITORING NOTE THIS SHEET.



FIRE ALARM - BASEMENT LEVEL DEMOLITION

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

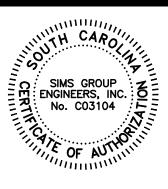
Jumper

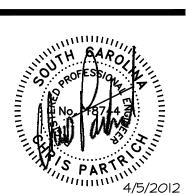
Carter

Sease

Architects

412 Meeting Street West Columbia South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

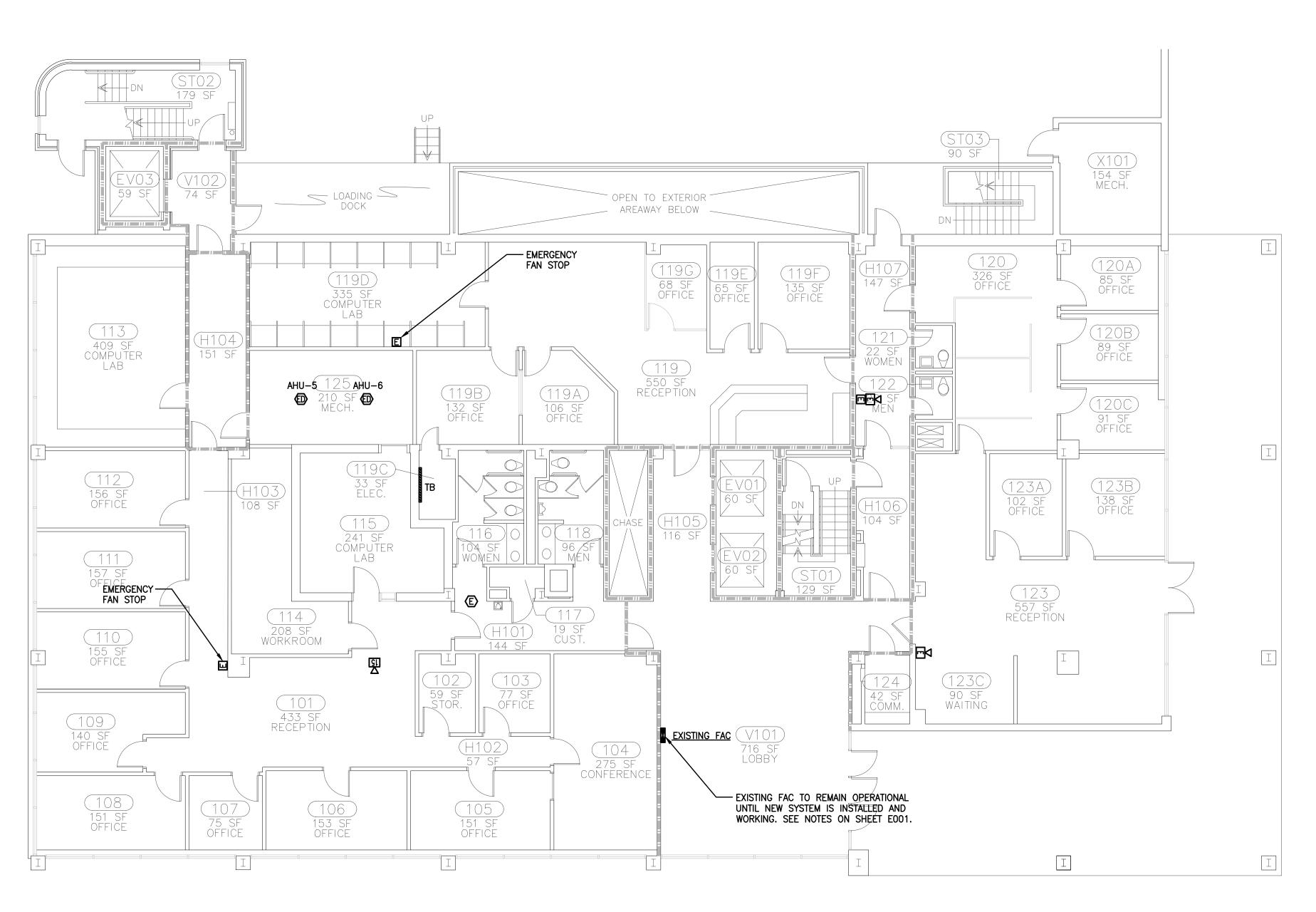
COMM NO:

08/24/2011 SHEET TITLE:

FIRE ALARM BASEMENT LEVEL DEMOLITION

BID SET

<u>sims group</u>



FIRE ALARM - FIRST FLOOR DEMOLITION SCALE: 1/8"=1'-0"

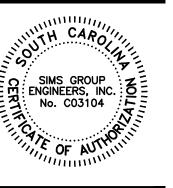
Jumper

Carter

Sease

Architects







NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

SHEET TITLE:

08/24/2011

FIRE ALARM FIRST FLOOR DEMOLITION

BID SET

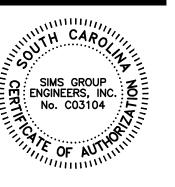
FIRE ALARM - SECOND FLOOR DEMOLITION
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects 412 Meeting Street West Columbia South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

08/24/2011 SHEET TITLE:

FIRE ALARM SECOND FLOOR DEMOLITION

BID SET

<u>sims group</u>

FIRE ALARM - THIRD FLOOR DEMOLITION

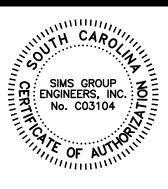
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

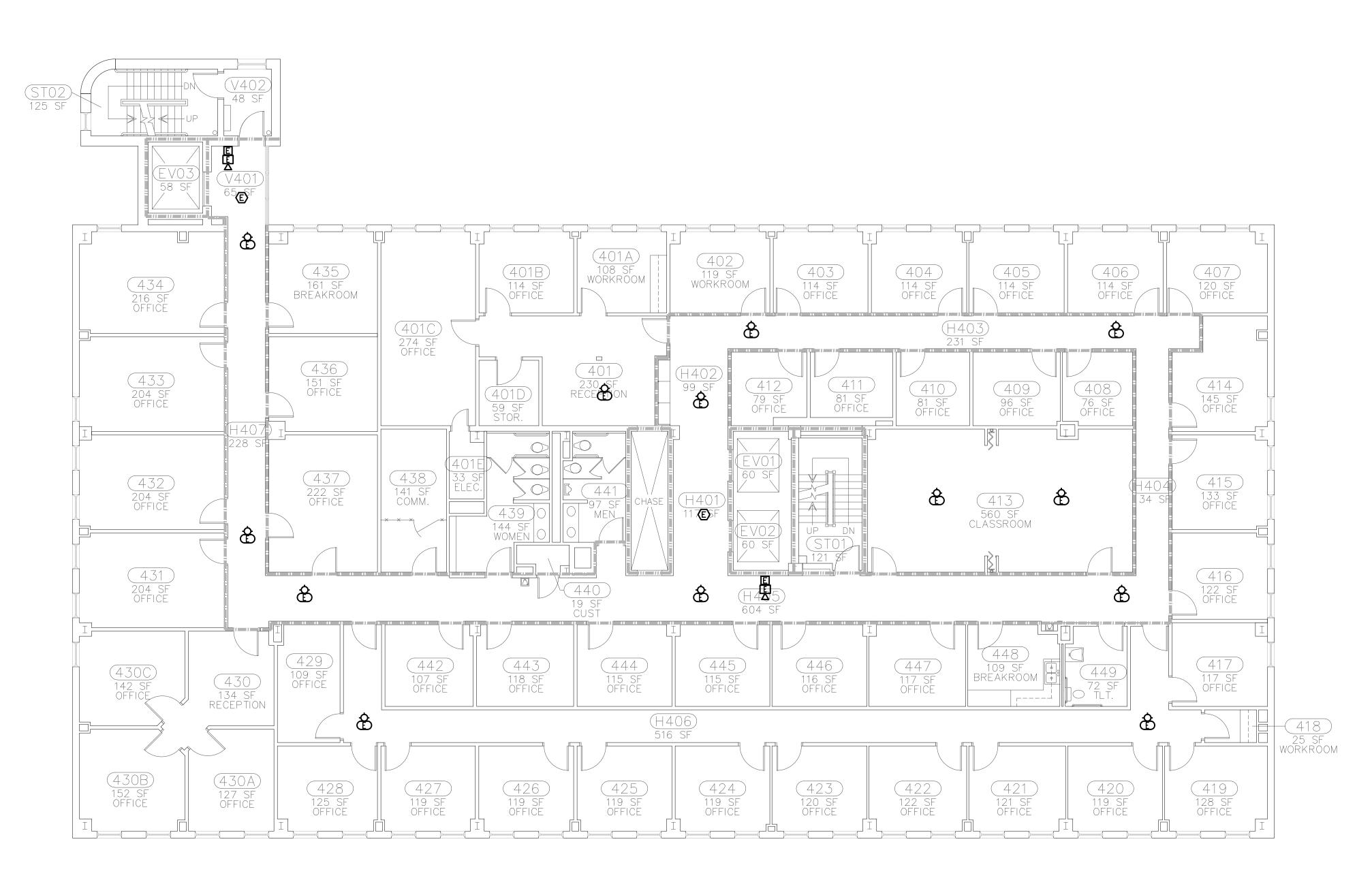
COMM NO:

08/24/2011 SHEET TITLE:

> FIRE ALARM THIRD FLOOR DEMOLITION

BID SET

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com



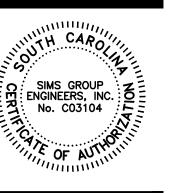
FIRE ALARM - FOURTH FLOOR DEMOLITION SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects 412 Meeting Street West Columbia South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO: 11104

08/24/2011 SHEET TITLE:

FIRE ALARM FOURTH FLOOR DEMOLITION

BID SET

<u>sims group</u>

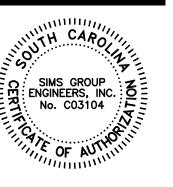
FIRE ALARM - FIFTH FLOOR DEMOLITION
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

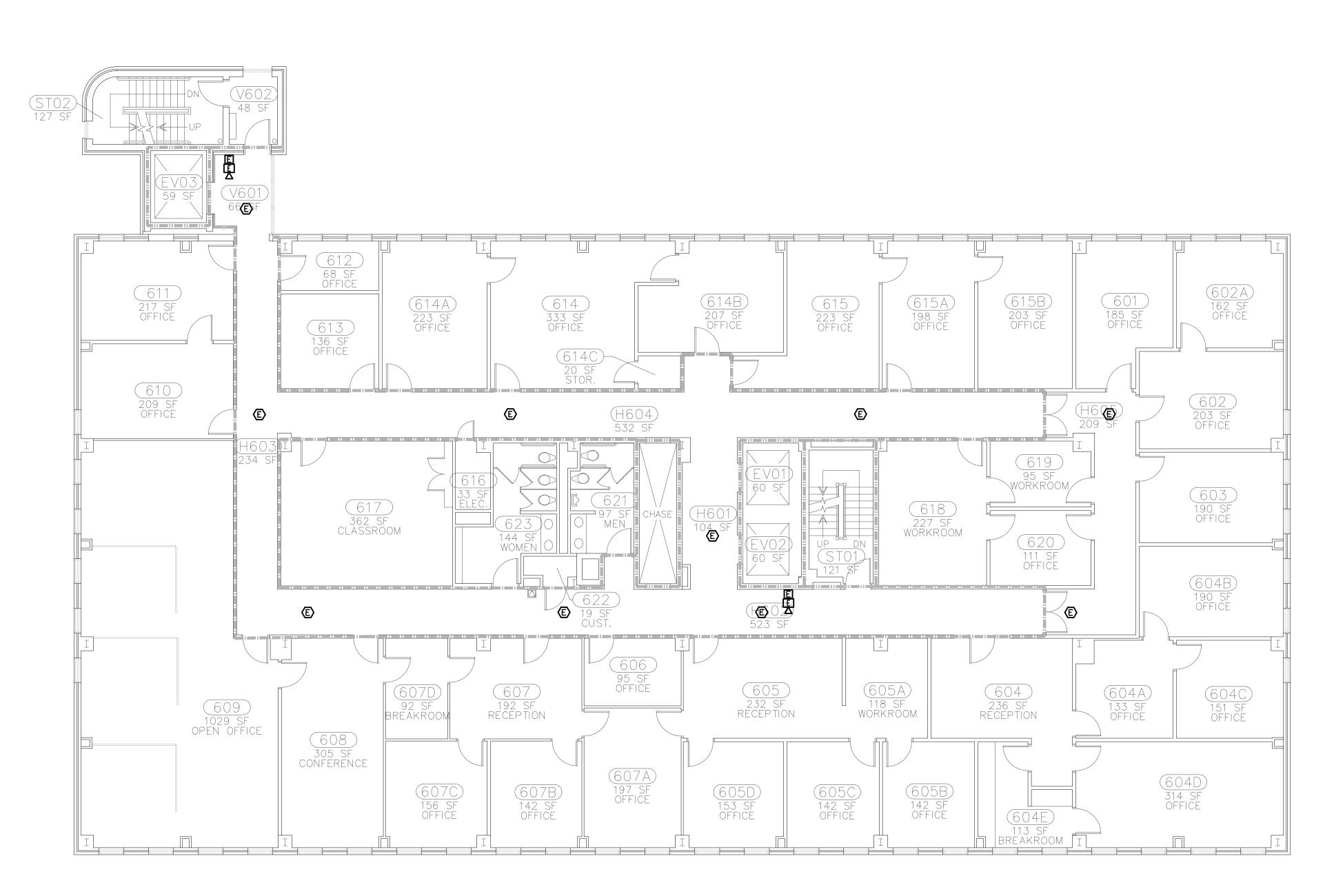
08/24/2011 SHEET TITLE:

> FIRE ALARM FIFTH FLOOR DEMOLITION

DEMOLITIO

BID SET

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com



FIRE ALARM - SIXTH FLOOR DEMOLITION

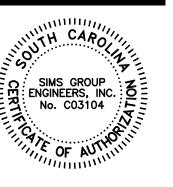
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

08/24/2011 SHEET TITLE:

> FIRE ALARM SIXTH FLOOR DEMOLITION

= sims group

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

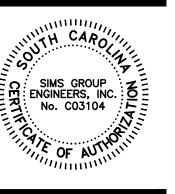
FIRE ALARM - SEVENTH FLOOR DEMOLITION SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

08/24/2011 SHEET TITLE:

> FIRE ALARM SEVENTH FLOOR DEMOLITION

BID SET

<u>sims group</u>

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

FIRE ALARM - PENTHOUSE LEVEL DEMOLITION

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

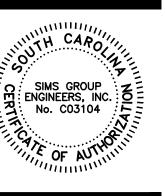
Jumper

Carter

Sease

Architects

412 Meeting Street West Columbia South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

08/24/2011 SHEET TITLE:

FIRE ALARM PENTHOUSE LEVEL DEMOLITION

BID SET

FIRE ALARM - BASEMENT LEVEL SCALE: 1/8"=1'-0"

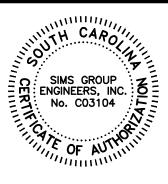
Jumper

Carter

Sease

Architects







NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

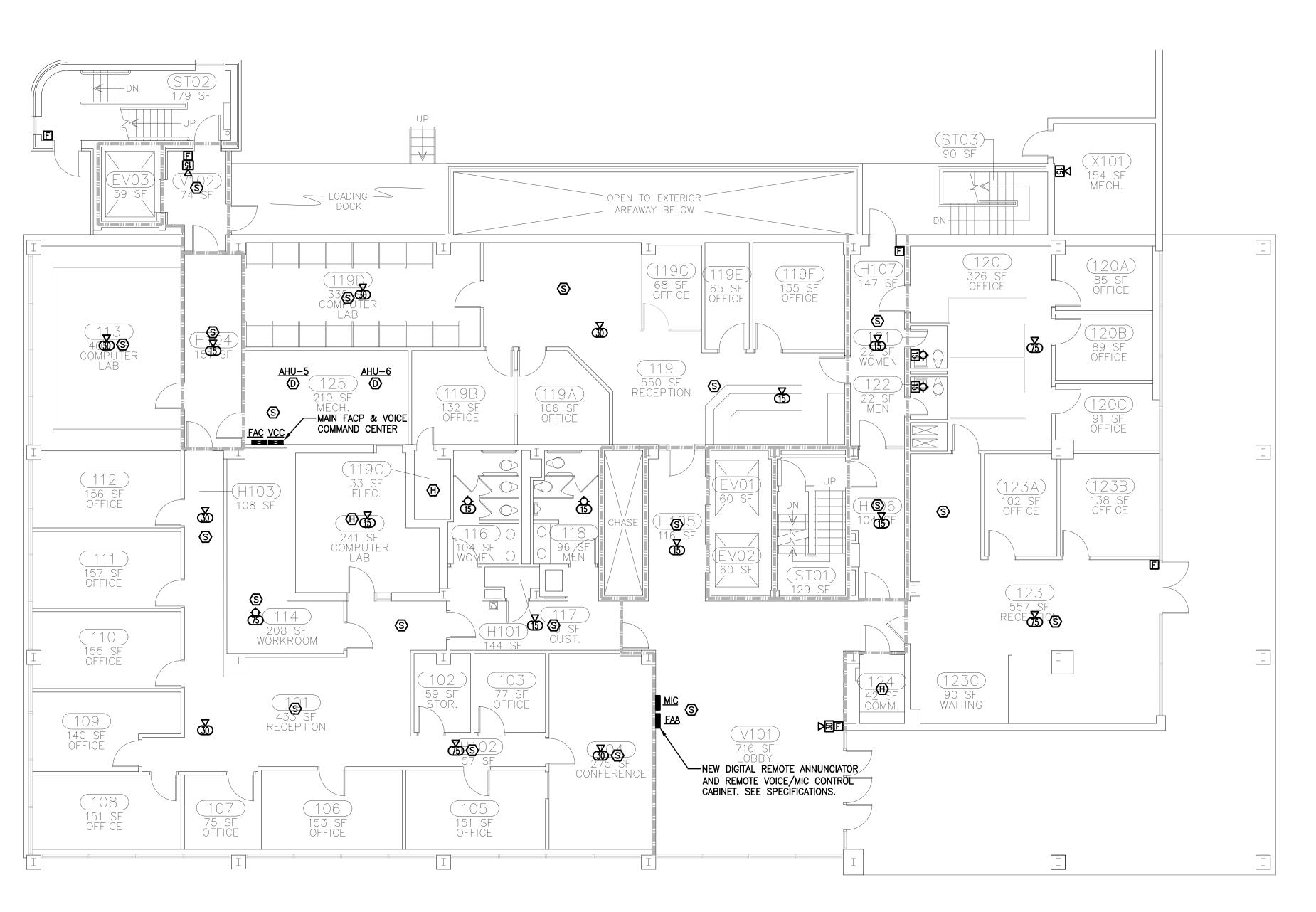
COMM NO:

08/24/2011 SHEET TITLE:

FIRE ALARM BASEMENT LEVEL

BID SET

<u>sims group</u>



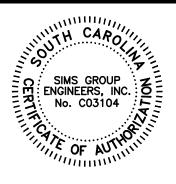
FIRE ALARM - FIRST FLOOR
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects 412 Meeting Street West Columbia South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

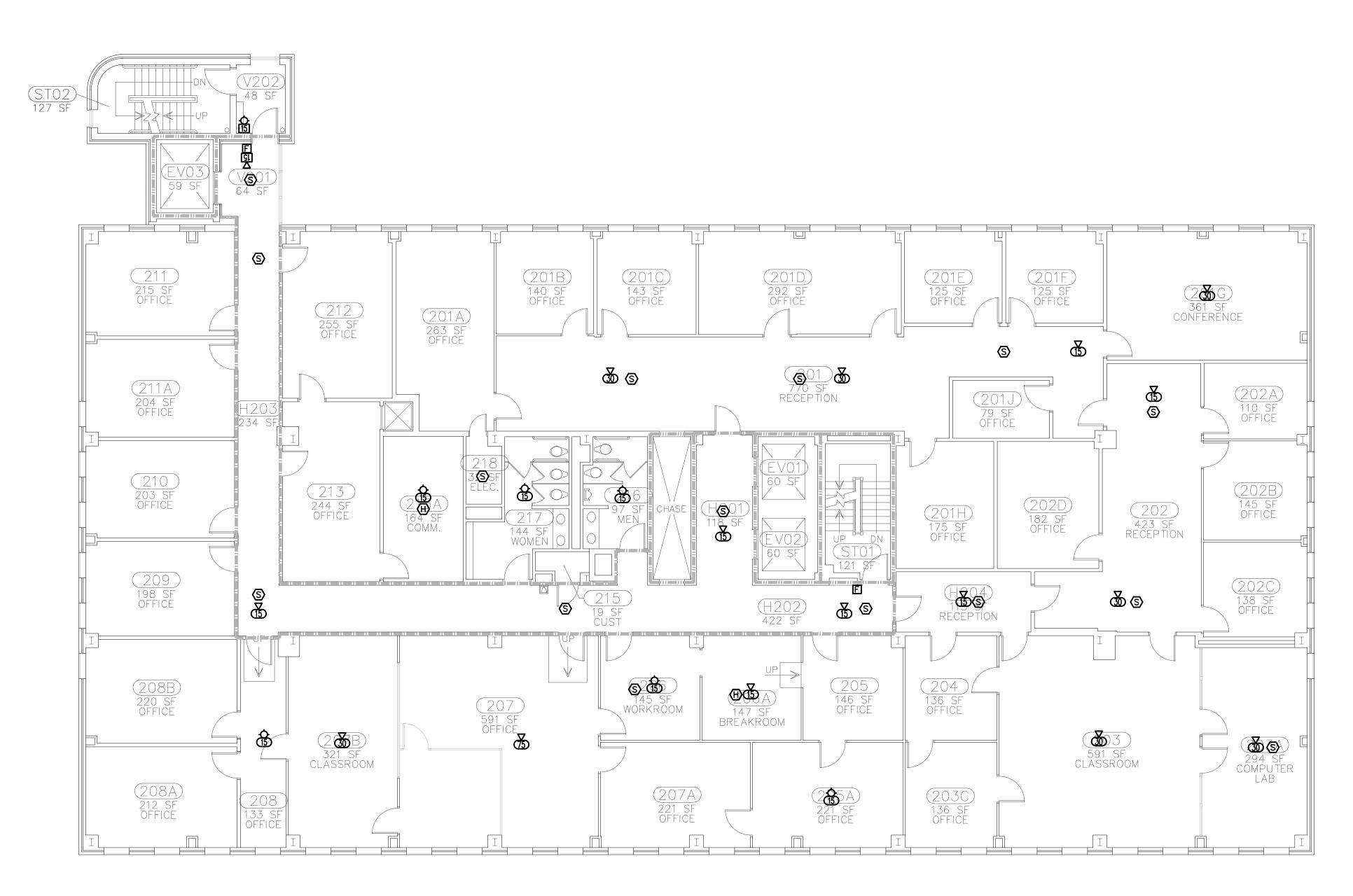
COMM NO:

08/24/2011 SHEET TITLE:

FIRE ALARM FIRST FLOOR

BID SET

<u>sims group</u>



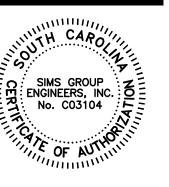
FIRE ALARM - SECOND FLOOR
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

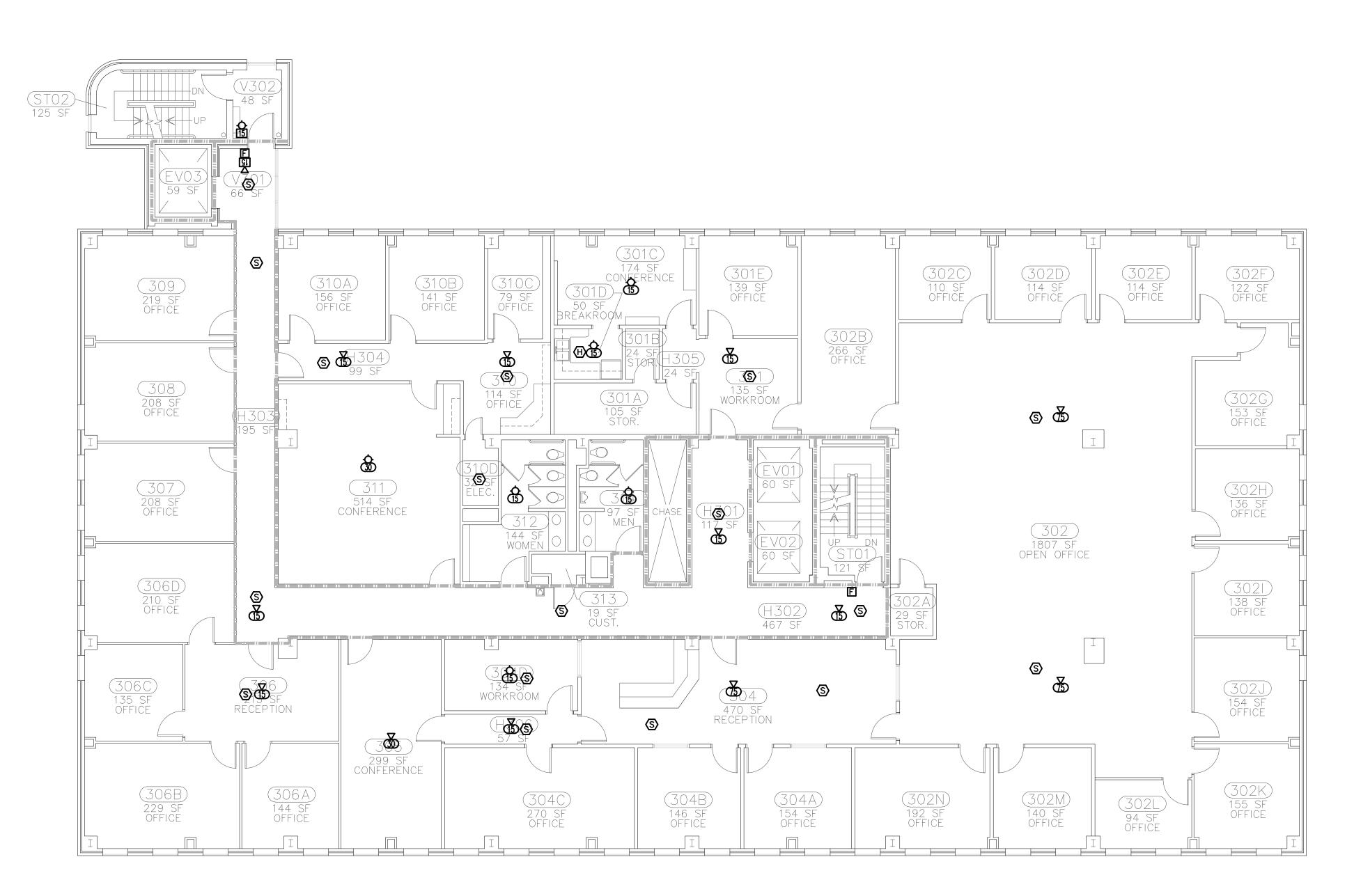
COMM NO:

08/24/2011 SHEET TITLE:

> FIRE ALARM SECOND FLOOR

BID SET C11039

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com



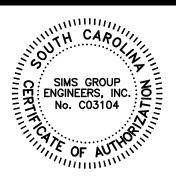
FIRE ALARM - THIRD FLOOR
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

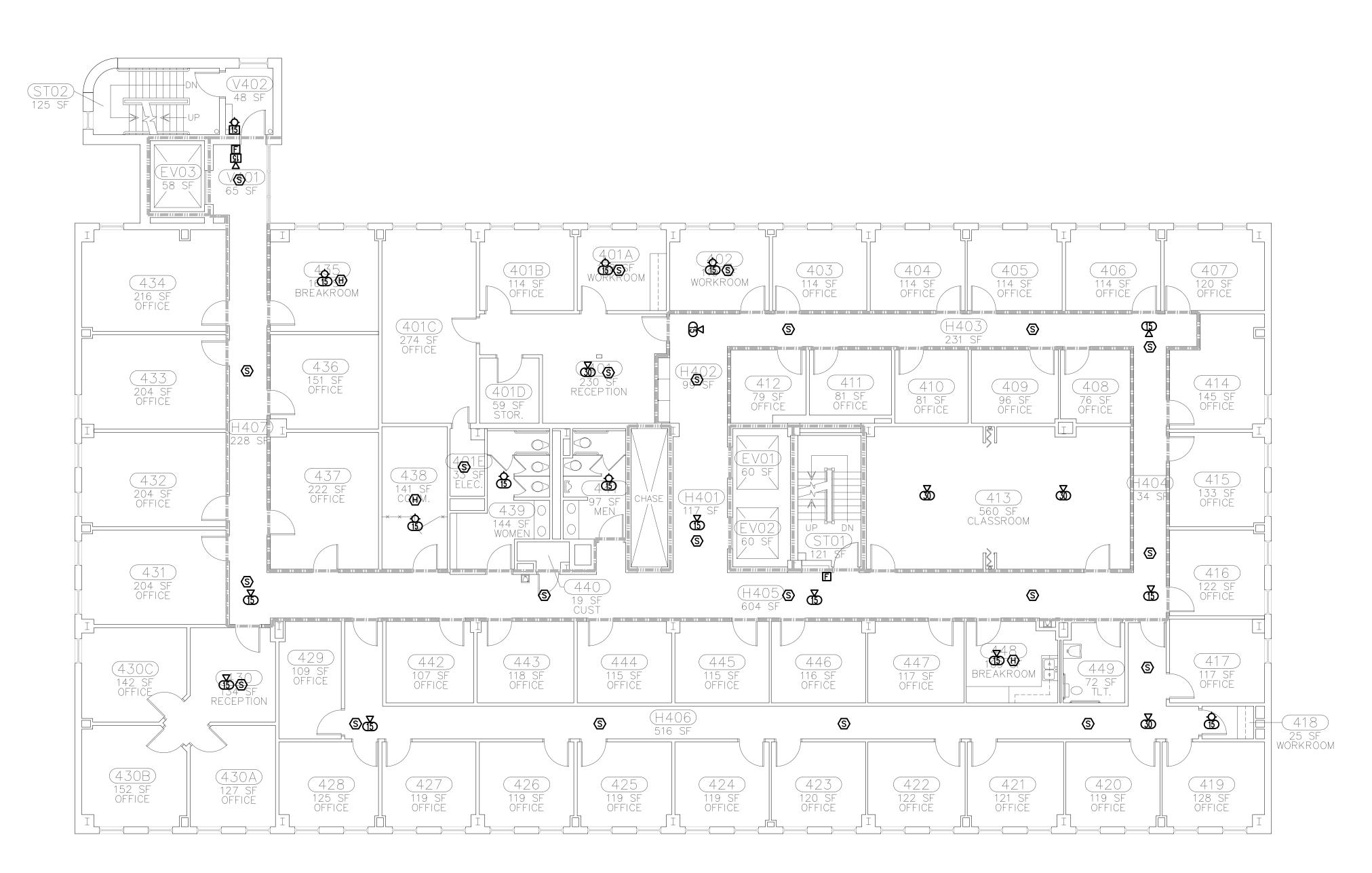
COMM NO:

08/24/2011
SHEET TITLE:

FIRE ALARM THIRD FLOOR

BID SET

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com



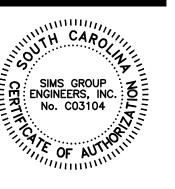
FIRE ALARM - FOURTH FLOOR
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO: 11104

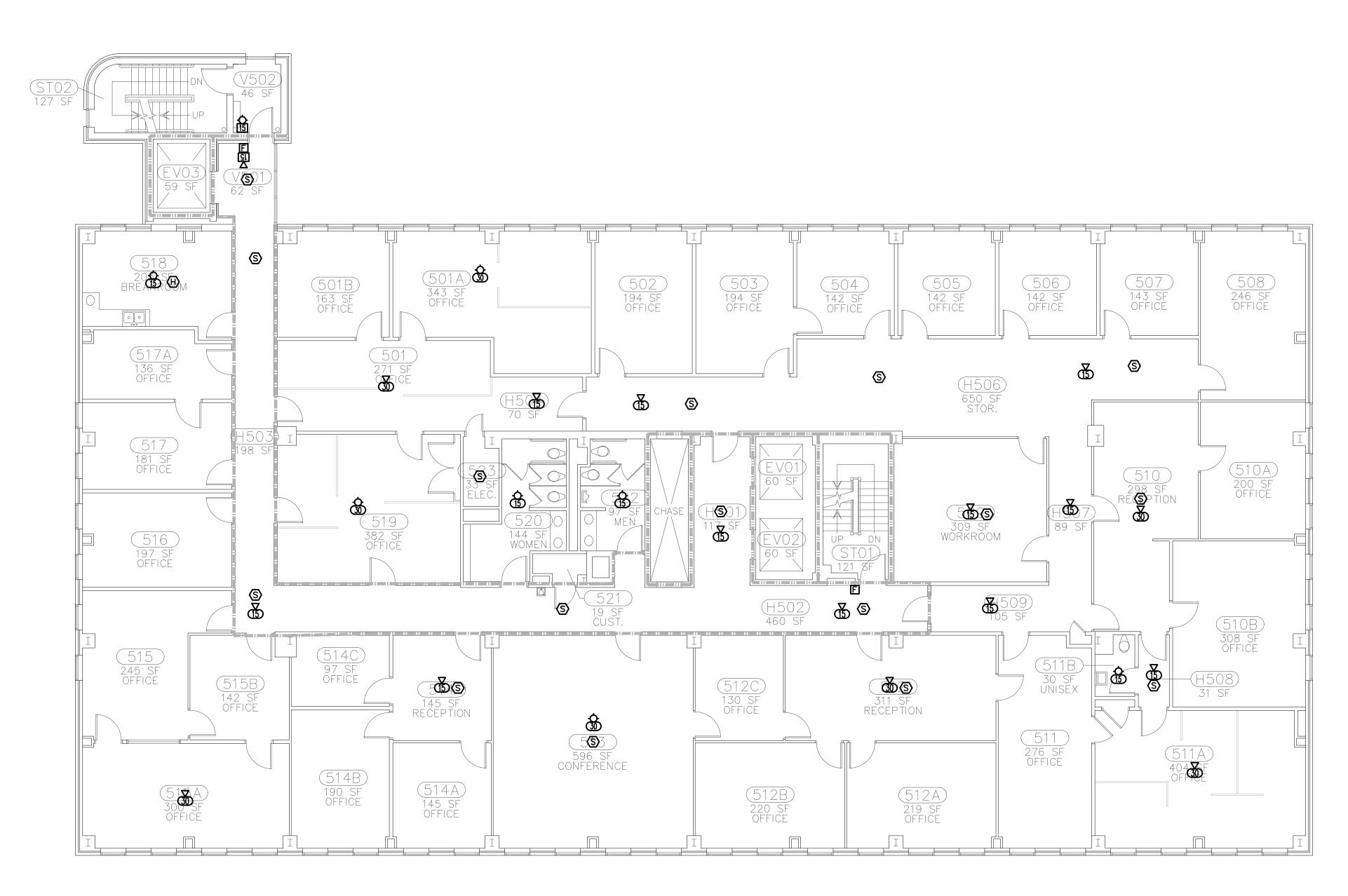
08/24/2011 SHEET TITLE:

> FIRE ALARM FOURTH FLOOR

BID SET

C110

— SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com



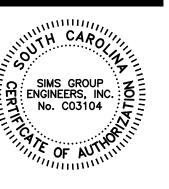
FIRE ALARM - FIFTH FLOOR
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

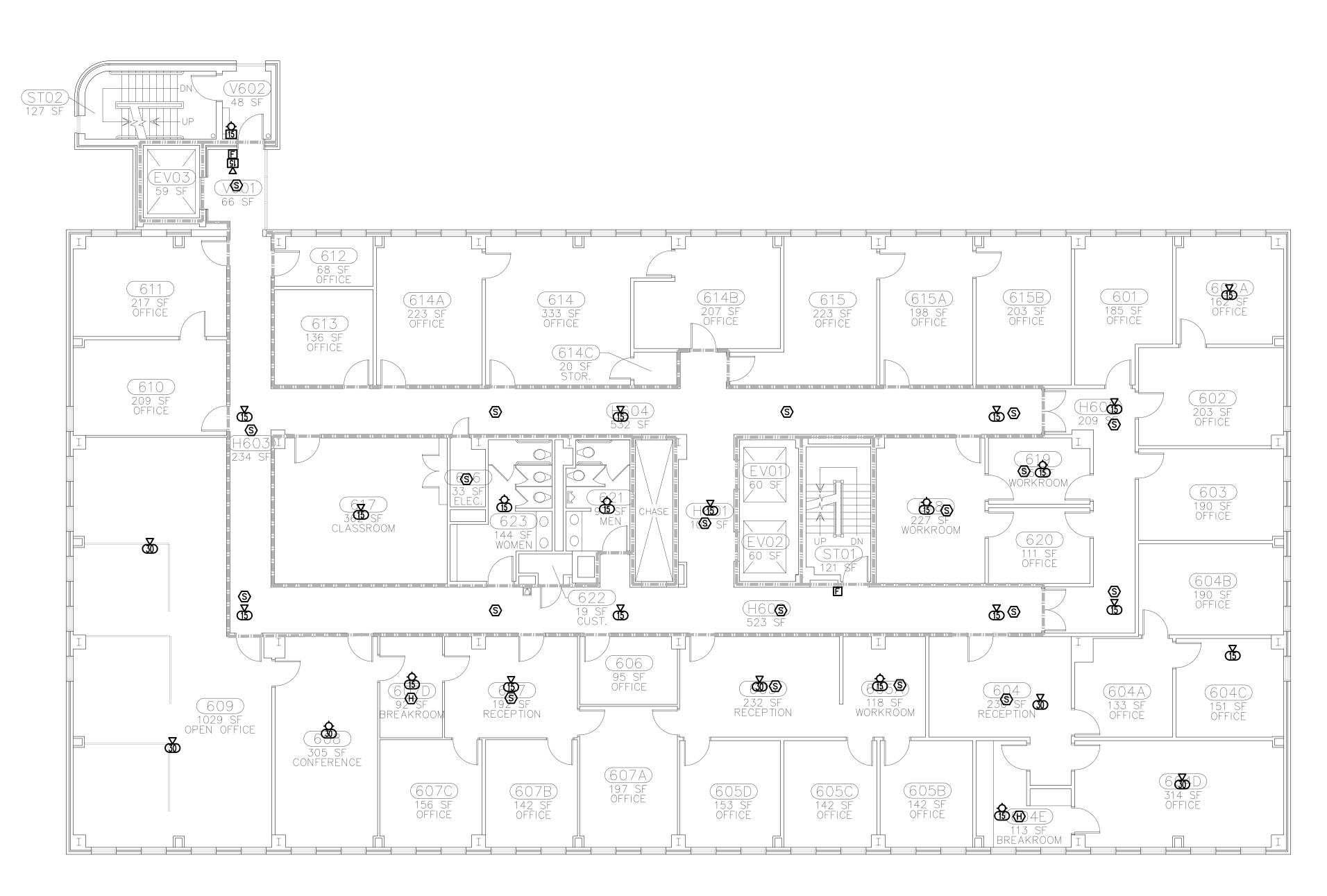
CHECKED BY:

COMM NO:

08/24/2011 SHEET TITLE:

> FIRE ALARM FIFTH LEVEL

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com



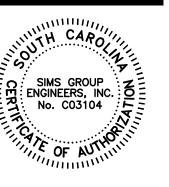
FIRE ALARM - SIXTH FLOOR
SCALE: 1/8"=1'-0"

Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO: 111

08/24/2011 SHEET TITLE:

> FIRE ALARM SIXTH FLOOR

BID SET C110

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

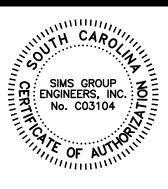
FIRE ALARM - SEVENTH FLOOR
SCALE: 1/8"=1'-0"

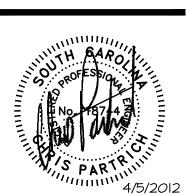
Jumper

Carter

Sease

Architects
PA
412 Meeting Street
West Columbia
South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

08/24/2011 SHEET TITLE:

> FIRE ALARM SEVENTH FLOOR

BID SET

<u>sims group</u>

SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

FIRE ALARM - ROOF LEVEL
SCALE: 1/8"=1'-0"

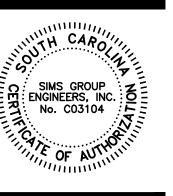
Jumper

Carter

Sease

Architects
PA
12 Meeting Street







NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO: 11104

08/24/2011

SHEET TITLE:

FIRE ALARM ROOF LEVEL

BID SET

= sims group

SIMS GROUP ENGINEERS, INC. 800 Columbiana Drive, Suite 208 Irmo, South Carolina 29063 Phone: (803) 765-1007 Fax: (803) 765-1030 www.simsgroupusa.com

FIRE ALARM - PENTHOUSE LEVEL
SCALE: 1/8"=1'-0"

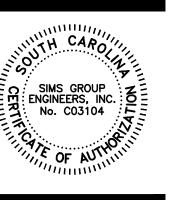
Jumper

Carter

Sease

Architects

412 Meeting Street West Columbia South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
OSE COMMENTS ADDED 4/5/12

DRAWN BY:

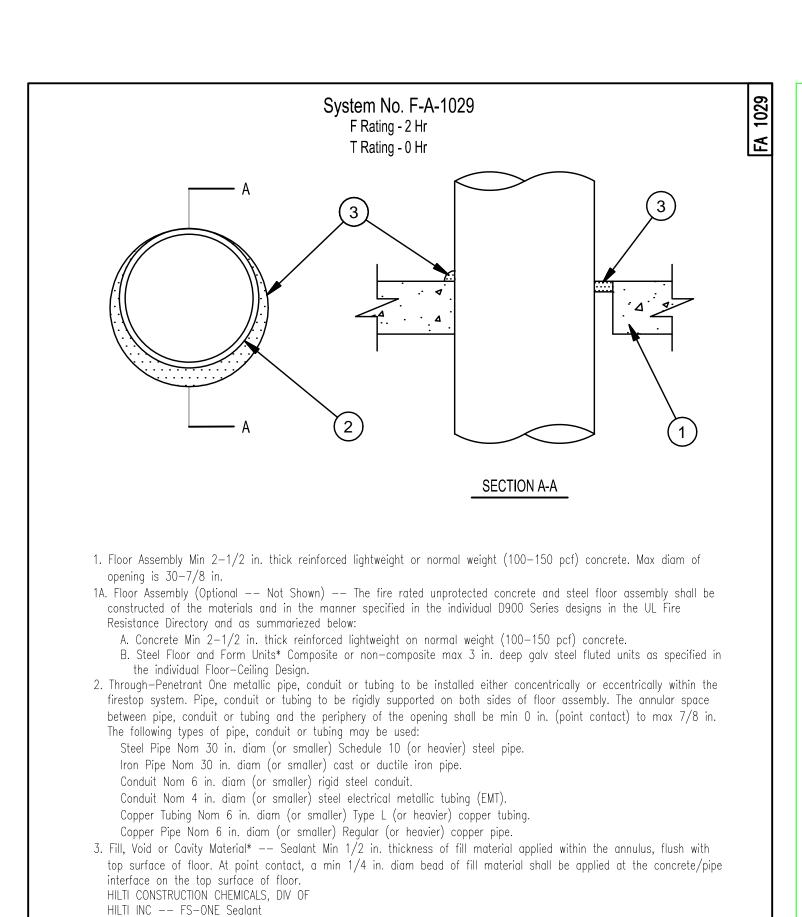
CHECKED BY:

COMM NO:

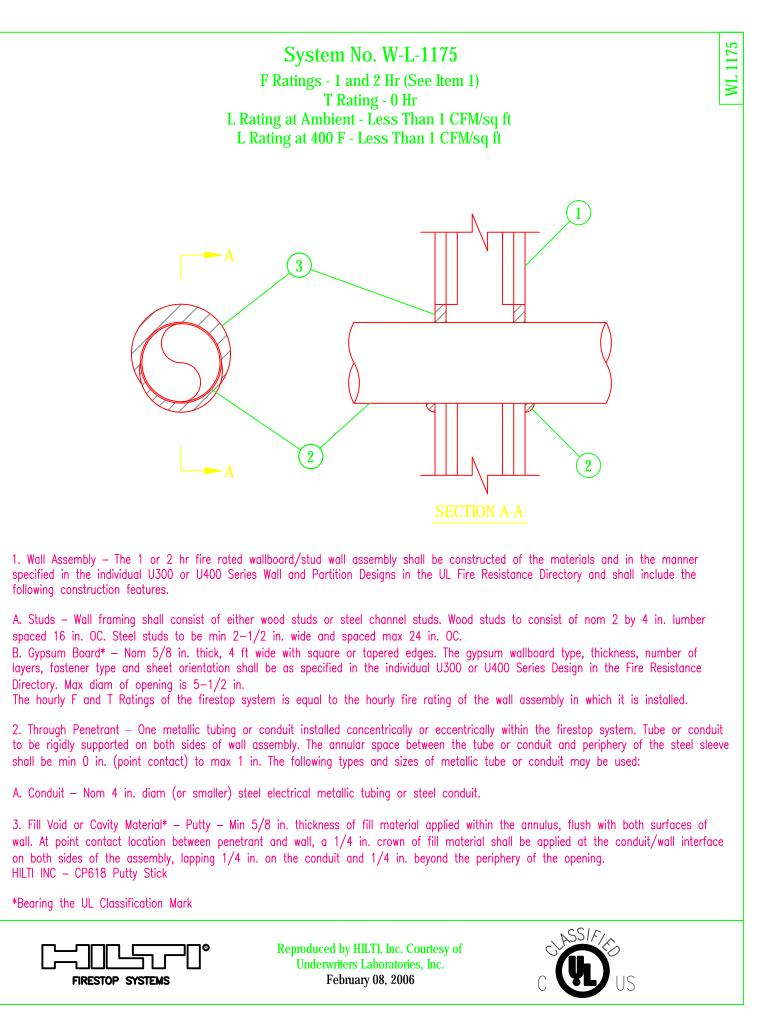
08/24/2011 SHEET TITLE:

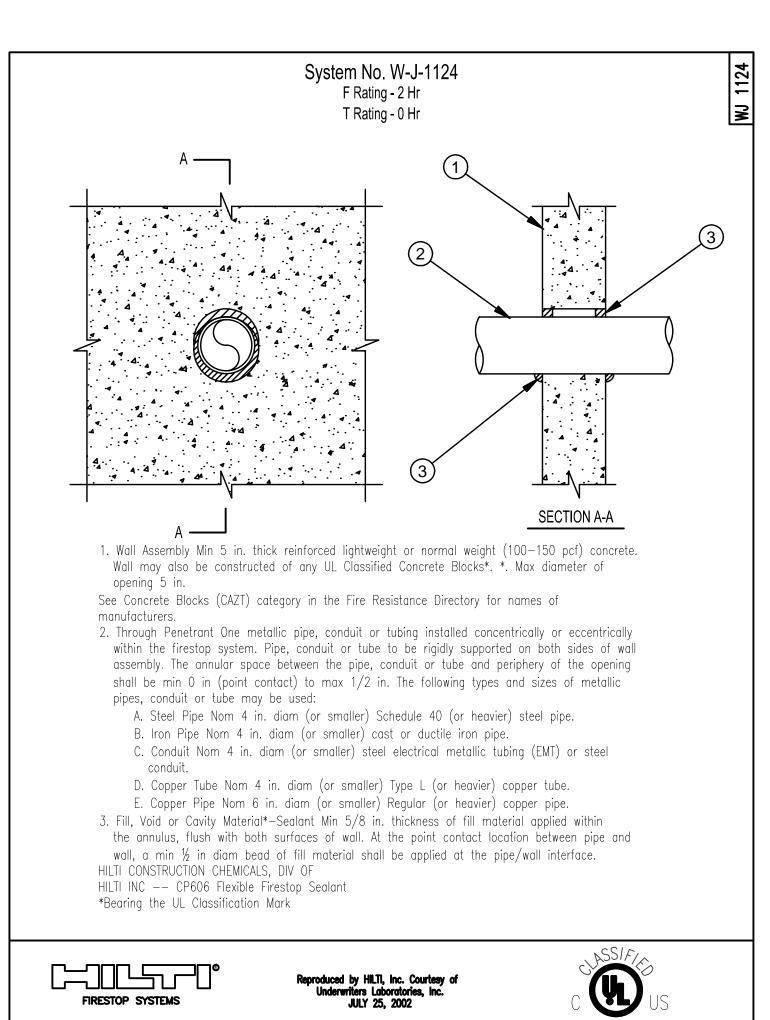
FIRE ALARM PENTHOUSE LEVEL

BID SET



*Bearing the UL Classification Mark





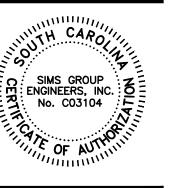
Jumper

Carter

Sease

Architects PA

412 Meeting Street West Columbia South Carolina





NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:

OSE COMMENTS ADDED 4/5/12

DRAWN BY:

CHECKED BY:

COMM NO:

08/24/2011

SHEET TITLE:

FIRE STOPPING DETAILS

BID SET

Phone: (803) 765-1007 Fax: (803) 765-1030

800 Columbiana Drive, Suite 208 Irmo, South Carolina 29063

www.simsgroupusa.com

= sims group

SIMS GROUP ENGINEERS, INC.