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.
- PROVIDE SYNCHRONIZATION OF ALL STROBE LIGHTS. PROVIDE MINIMUM OF 20% CAPACITY FOR EACH NOTIFICATION APPLIANCE CIRCUIT.
- 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 JOHNSON CONTROLS. 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 FIELD PRIOR TO ROUGH-IN TO INSURE COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS.
 - PROVIDE DOCUMENTATION OF DUCT DETECTOR TESTING PER NFPA 72 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'-O" OF THE END WALL PER NFPA 72. 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:
- (6) SPEAKER/STROBE LIGHTS
- (6) STROBE LIGHTS
- (6) DUCT MOUNTED SMOKE DETECTORS
- (4) MANUAL PULL STATIONS
- (6) CEILING MOUNTED SMOKE OR HEAT DETECTORS • (4) FIRE/SMOKE DAMPER CONNECTIONS WITH REMOTE INDICATORS.

SEE DEMOLITION PLANS.

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 NETWORK DISPLAY UNIT
FAA	FIRE ALARM REMOTE ANNUNCIATOR.
E	FIRE ALARM MANUAL PULL STATION. 48" AFF.
<u>∇</u> 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.
15	FIRE ALARM FLASHING LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQ'TS.
(15)	SAME AS ABOVE, EXCEPT CEILING MOUNTED FLASHING LIGHT.
S	SMOKE DETECTOR. CEILING MOUNTED, UNLESS NOTED.
\bigoplus	HEAT DETECTOR. CEILING MOUNTED, UNLESS NOTED.
0	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.
	1#12G, 2#12, 3/4"C. UNLESS NOTED OTHERWISE. EMT RUN CONCEALED UNLESS NOTED OTHERWISE.
•	AREA OF RESCUE ASSISTANCE WALL MOUNTED CALL STATION, 48" AFF. SEE SHEET E601 FOR ADDITIONAL DETAILS. ADD SIGNAGE AS SPECIFIED.
⋖ F	2-WAY COMMUNICATION SYSTEM JACK (FIREMAN'S PHONE) 48" AFF. PROVIDE SIGNAGE INDICATING LOCATION AT EACH JACK, VERIFY WORDING WITH AHJ.
ER ER	EXISTING WALL OR CEILING MOUNTED HORN/STROBE LIGHT TO BE REMOVED. SEE DEMOLITION PLANS.
ER ER	EXISTING WALL OR CEILING MOUNTED STROBE LIGHT TO BE REMOVED. SEE DEMOLITION PLANS.
S	EXISTING CEILING MOUNTED SMOKE OR HEAT DETECTOR TO BE REMOVED. SEE DEMOLITION PLAN.
(D)	EXISTING DUCT MOUNTED SMOKE DETECTOR TO BE REPLACED. SEE DEMOLITION PLANS.
ER ESR	EXISTING MANUAL PULL STATION OR FAN STOP STATION TO BE REMOVED/REPLACED.

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 USC FIRE SAFETY. 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.
- FD3. WHERE EXISTING DEVICES ARE REMOVED, THE CONTRACTOR SHALL EITHRT PROVIDE A BLANK COVERPLATE OVER OUTLET BOX, REMOVE BOX AND PATCH WALL/CEILING TO MATCH EXISTING OR REPLACE DAMAGED CEILING TILE (OWNER TO PROVIDE NEW CEILING TILES, CONTRACTOR TO INSTALL AND DISPOSE OF OLD TILES)

TO NEW EARTH WATER

SCIENCE FIRE ALARM

ALARM CONTROL

<u>FACP-EWS</u>

ELECT 026

SURGE

" EMT WITH

PER NFPA 72.

DEVICES.

1" EMT WITH **FIBEROPTIC**

CABLE —

RELOCATED FIRE

CONTROL

PANEL

FACP-CLS

ELECT 026

SURGE

TO NEW COKER

ALARM DEVICES.

(2) NEW 20A/1P BREAKERS IN

MARK BREAKERS IN RED, LABEL AS

"FIRE ALARM CIRCUIT CONTROL", AND

PROVIDE WITH MFR's LOCKING DEVICE

PER NFPA 72.

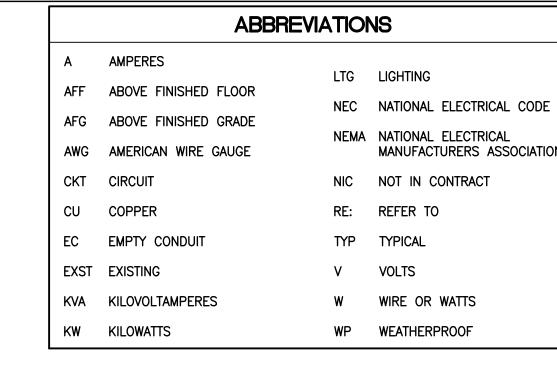
PANEL IN ELECT. ROOM 026.

LIFE SCIENCE FIRE-

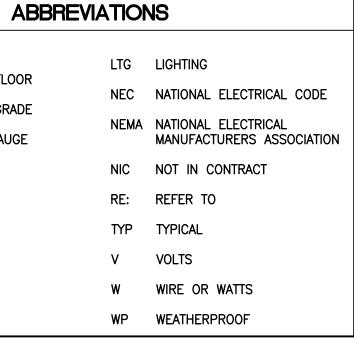
COORDINATION MEETING NOTE

PRIOR TO START OF WORK THE CONTRACTOR AND THE FIRE ALARM SYSTEM INSTALLER SHALL MEET ON SITE WITH REPRESENTATIVES FROM USC FIRE SAFETY TO REVIEW SPECIFIC PROGRAM NEEDS FOR THE UNIVERSITY, SUCH AS DETECTOR VERIFICATION, ALARMS BETWEEN BUILDINGS, ELEVATOR SHUNT TRIP RELAY DELAY, ETC.

SEE SHEET E002 FOR GENERAL NOTES



REQUIREMENTS.



ELECTRICAL SUBMITTALS

ELECTRICAL SHOP DRAWINGS SHALL BE SUBMITTED IN ONE COMPLETE PACKAGE CONTAINING ALL ITEMS REQUIRED BY THE ELECTRICAL DRAWINGS AND THE DIVISION 26-28 SPECIFICATIONS. PARTIAL SHOP DRAWING SUBMITTALS MAY BE REJECTED BY THE ARCHITECT-ENGINEER. REFER TO SECTION 260500 OF THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL ELECTRICAL SHEET LIST E001 - FIRE ALARM SYMBOLS, NOTES AND RISER E002 - PARTIAL FIRE ALARM SITE PLAN E101 - FIRE ALARM - BASEMENT LEVEL (CLS) E102 - FIRE ALARM - FIRST FLOOR (CLS) E103 - FIRE ALARM - SECOND FLOOR (CLS) E104 - FIRE ALARM - THIRD FLOOR (CLS) E105 - FIRE ALARM - FOURTH FLOOR (CLS) E106 - FIRE ALARM - FIFTH FLOOR (CLS) E107 - FIRE ALARM - SIX FLOOR (CLS) E108 - FIRE ALARM - SEVENTH FLOOR (CLS) E109 - FIRE ALARM - ROOF - PENTHOUSE LEVEL (CLS)

E201 - FIRE ALARM - BASEMENT LEVEL (EWS)

E203 - FIRE ALARM - SECOND FLOOR (EWS)

E202 - FIRE ALARM - FIRST FLOOR (EWS)

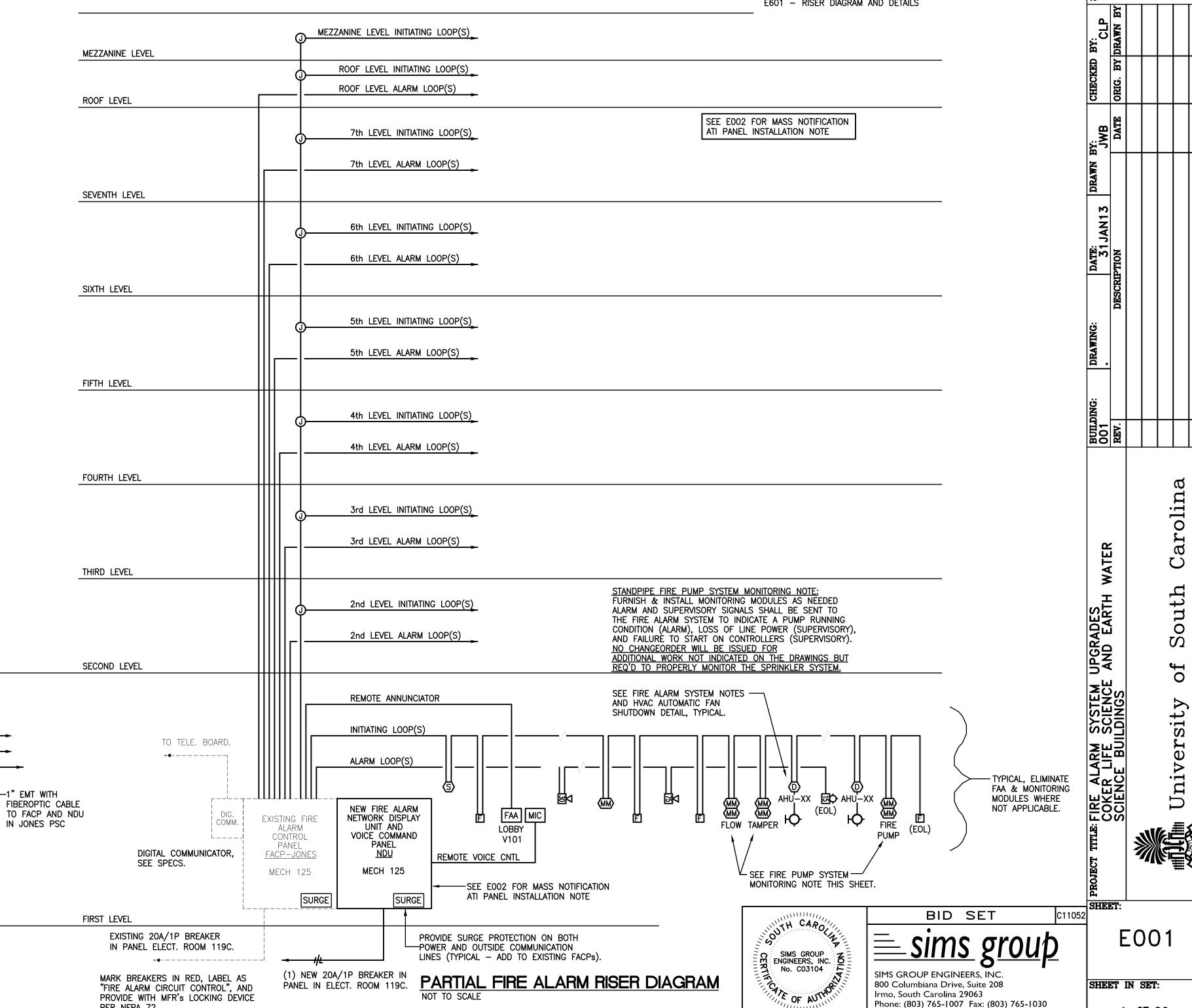
E204 - FIRE ALARM - THIRD FLOOR (EWS)

E205 - FIRE ALARM - FOURTH FLOOR (EWS) E206 - FIRE ALARM - FIFTH FLOOR (EWS)

E207 - FIRE ALARM - SIX FLOOR (EWS)

E208 - FIRE ALARM - SEVENTH FLOOR (EWS)

E601 - RISER DIAGRAM AND DETAILS



PLANNING ISTRUCTION A, SC 29208 CAMPUS AND CONS

1 OF 20

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SCOPE OF WORK

THE WORK OF THIS SECTION SHALL PROVIDE COMPLETE ELECTRICAL SYSTEMS WHICH SHALL INCLUDE THE PROVIDING OF ALL CONDUCTORS, RACEWAYS, FITTINGS, CIRCUIT PROTECTIVE DEVICES, LIGHT FIXTURES, BOXES, SUPPORTS, AND ALL ASSOCIATED APPURTENANCES AND MISCELLANEOUS EQUIPMENT NECESSARY, ALL OF WHICH SHALL BE COMPLETELY CONNECTED, TESTED, ADJUSTED AND LEFT IN PROPER OPERATING CONDITION. THE ELECTRICAL SYSTEM TO BE PROVIDED SHALL INCLUDE SERVICE AND DISTRIBUTION FACILITIES POWER FOR MOTOR OPERATED EQUIPMENT, LIGHTING SYSTEMS, AND ALL OUTLETS AS COVERED HEREINAFTER.

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE (NEC), THE 2009 INTERNATIONAL BUILDING CODE (IBC), AND ANY LOCAL CODES, LAWS AND ORDINANCES WHICH MAY APPLY. WHERE DIFFERENCES EXIST BETWEEN THE CODES, THE STRICTER CODE SHALL APPLY.
- ALL 120V CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR REGARDLESS OF USE.
- THE CONTRACTOR FOR THE WORK UNDER THIS SECTION SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND LICENSES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENT AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON
- TYPE MC CABLE MAY BE USED FOR INTERIOR, CONCEALED BRANCH CIRCUITS. WHERE CABLE WOULD OTHERWISE BE EXPOSED, IT SHALL BE INSTALLED IN CONDUIT. REDHEAD BUSHINGS SHALL BE PROVIDED AT EACH CABLE
- UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS:
- #10 AWG SHALL BE USED FOR HOMERUNS LONGER THAN 75 FEET, #12 AWG SHALL BE USED FOR HOMERUNS 75
- 6. MULTIWIRE BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS.
- ELECTRICAL METALLIC TUBING AND RIGID GALVANIZED STEEL CONDUIT SHALL BE THE ONLY TYPES OF CONDUIT INSTALLED WITHIN THE BUILDING.
- BRANCH CIRCUITS SHALL BE RUN CONCEALED WHERE PRACTICAL. BRANCH CIRCUITS RUN EXPOSED TO WEATHER ON EXTERIOR WALLS OR ON ROOFS SHALL BE RUN IN GRC OR IMC WITH SCREWED FITTINGS. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILINGS SHALL BE RUN IN EMT, GRC, OR IMC. BRANCH CIRCUITS RUN EXPOSED IN DRY, FINISHED SPACES SHALL BE RUN IN WIREMOLD SURFACE METAL RACEWAY. BRANCH CIRCUITS RUN EXPOSED IN DAMP LOCATIONS, UNFINISHED SPACES (ATTICS), AND UNOCCUPIED SPACES (STORAGE ROOM, EQUIPMENT ROOMS, JANITOR'S CLOSET, ETC.) MAY BE RUN IN EMT IN LIEU OF WIREMOLD.
- CONDUIT HOMERUNS TO PANELBOARDS AND ALL CONDUITS SHOWN WITH MULTIPLE CIRCUITS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8"
- ALL FIRE RATED WALLS, FLOORS, ETC WHICH HAVE A CONDUIT OR OTHER ELECTRICAL PENETRATION SHALL BE SEALED TO EQUAL THE RATING OF THE WALL, FLOOR, ETC. THAT IS PENETRATED. CONTRACTOR SHALL USE A U.L. RATED AND LISTED ASSEMBLY FOR THE SEALING MATERIAL AND METHOD. COORDINATE MANUFACTURER WITH THE GENERAL CONTRACTOR SO THAT ALL TRADES ON THE PROJECT USE THE SAME MANUFACTURER.
- ALL OUTLET BOXES 4"x4" OR SMALLER LOCATED ON OPPOSITE SIDES OF A RATED WALL SHALL HAVE A MINIMUM OF 24" HORIZONTAL SPACING OR SHALL BE PROTECTED WITH LISTED PUTTY PADS. ALL OUTLET BOXES LARGER THAN 4"x4" (COMMUNICATIONS OUTLETS, ETC.) LOCATED IN RATED WALLS SHALL BE PROTECTED WITH LISTED PUTTY
- 11. CONCEAL ALL CONDUIT AND FITTINGS EXCEPT WHERE THE ARCHITECT GRANTS SPECIFIC PERMISSION.
- 12. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- 13. PROVIDE (1) COMPLETE SET OF ELECTRICAL DRAWINGS MARKED UP FOR RECORD DRAWINGS. SHOW ALL LOCATIONS OF EQUIPMENT & MATERIALS.
- 14. INSTALL ALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
- 15. IDENTIFY MAJOR EQUIPMENT INSTALLED WITH LAMICOR LABELS.
- VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- 17. ALL RACEWAYS, FIXTURES, WIRING, DEVICES, AND EQUIPMENT RENDERED USELESS BY THIS WORK SHALL BE REMOVED AND DELIVERED TO THE OWNER'S STORAGE FACILITY AS DIRECTED. ANY MATERIAL NOT WANTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
- CONTRACTOR SHALL DO ALL CUTTING, PATCHING, AND PAINTING AS REQUIRED TO INSTALL HIS WORK.
- WHERE DISAGREEMENTS EXISTS ON THE DESIGN DOCUMENTS, THE ITEM OR ARRANGEMENTS OF BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID. ANY DISCREPANCIES BETWEEN THE DRAWINGS. SPECIFICATIONS. AND FIELD CONDITIONS SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO COMMENCING WORK. ALL AGREEMENTS SHALL BE VERIFIED IN WRITING.
- 20. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES AND EXISTING CONDITIONS TO INSURE PROPER LOCATION OF OUTLETS AND EQUIPMENT CONNECTIONS, AND TO MINIMIZE CONFLICTS WITH STRUCTURAL MEMBERS, DUCT. PIPING, ETC. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS SHALL BE CORRECTED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

FURNISH AND INSTALL (1) MASTER FIREMAN'S —

AS REQUIRED TO ACCOMMODATE NEW FIREMAN'S

IN PSC COMMAND CENTER. PULL STATION TO

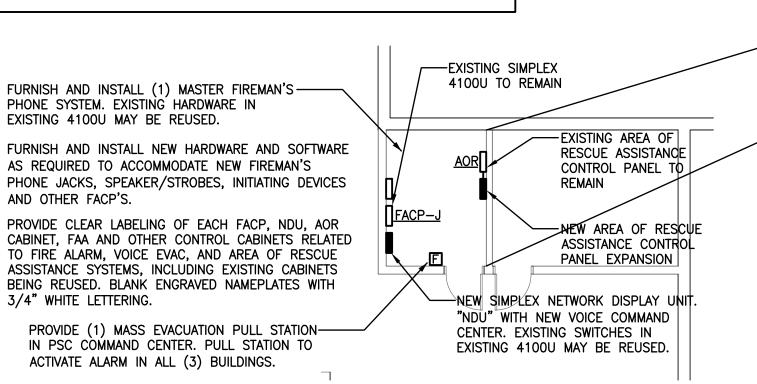
ACTIVATE ALARM IN ALL (3) BUILDINGS.

PHONE SYSTEM. EXISTING HARDWARE IN

EXISTING 4100U MAY BE REUSED.

AND OTHER FACP'S.

3/4" WHITE LETTERING.



COMMAND CENTER PLAN SCALE: 1/8"=1'-0"

MASS NOTIFICATION ATI PANEL INSTALLATION NOTE:

ATI PANEL TO BE FURNISHED AND INSTALLED BU USC. CONTRACTOR TO INCLUDE A LUMP SUM CASH ALLOWANCE OF \$5000.00 TO COVER COST TO FURNISH AND INSTALL CONDUIT AND CABLE FOR ATI PANEL. ALLOWANCE TO BE INCLUDED AS PART OF BASE BID.

EXISTING VOICE COMMAND CENTER LOCATED IN JONES PSC LOBBY TO

VOICE ANNOUNCEMENTS IN ALL (3) BUILDINGS (CLS, EWS AND JONES)

EASTH WATES SCIENCE

Jew 7000 55000 --

FIRE ALARM SITE PLAN

SCALE: 1"=30'-0"

ferm & BIOH ----

or aton-

REMAIN. REPROGRAM AND/OR REWIRE SO IT HAS THE CAPABILITY TO MAKE

PLANNING ISTRUCTION A, SC 29208

RUN NEW CONDUIT BETWEEN COKER LIFE SCIENCE, EARTH WATER SCIENCE AND JONES PSC COMMAND CENTER AS REQUIRED TO INSTALL NEW FIRE ALARM

> ELEC. ROOM 026 PLAN SCALE: 1/8"=1'-0"

SYSTEMS. THE THREE FACP'S TO BE NETWORKED VIA FIBEROPTIC CABLE,

CONDUIT NOT BEING REMOVED MAY BE REUSED WHERE PRACTICAL.

PROVIDE ALL NETWORK CARDS AND ADAPTERS REQUIRED. EXISTING FIRE ALARM

TO JONES PSC-\

FIRE ALARM SYSTEM COKER LIFE SCIENCE SCIENCE BUILDINGS

BID SET

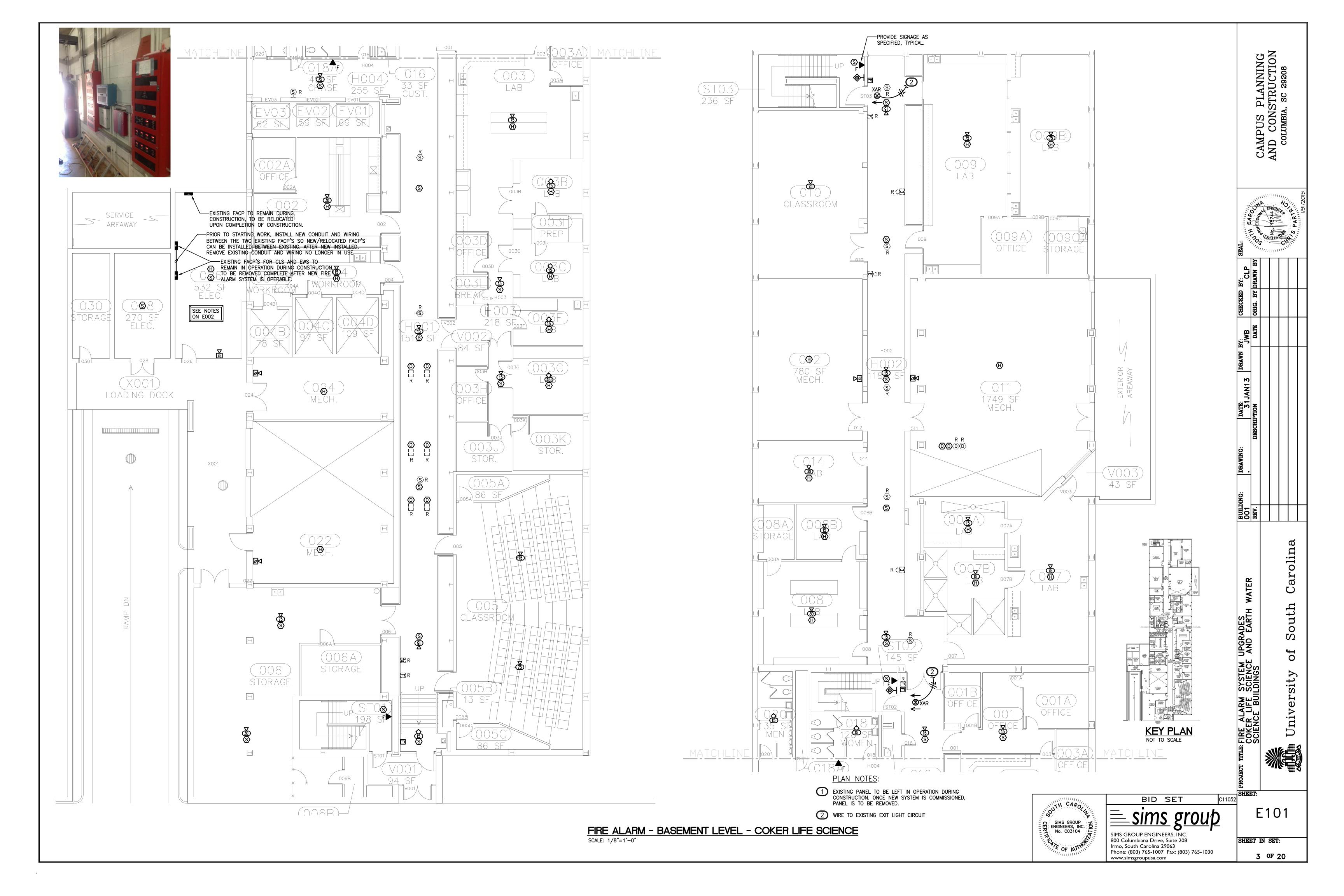
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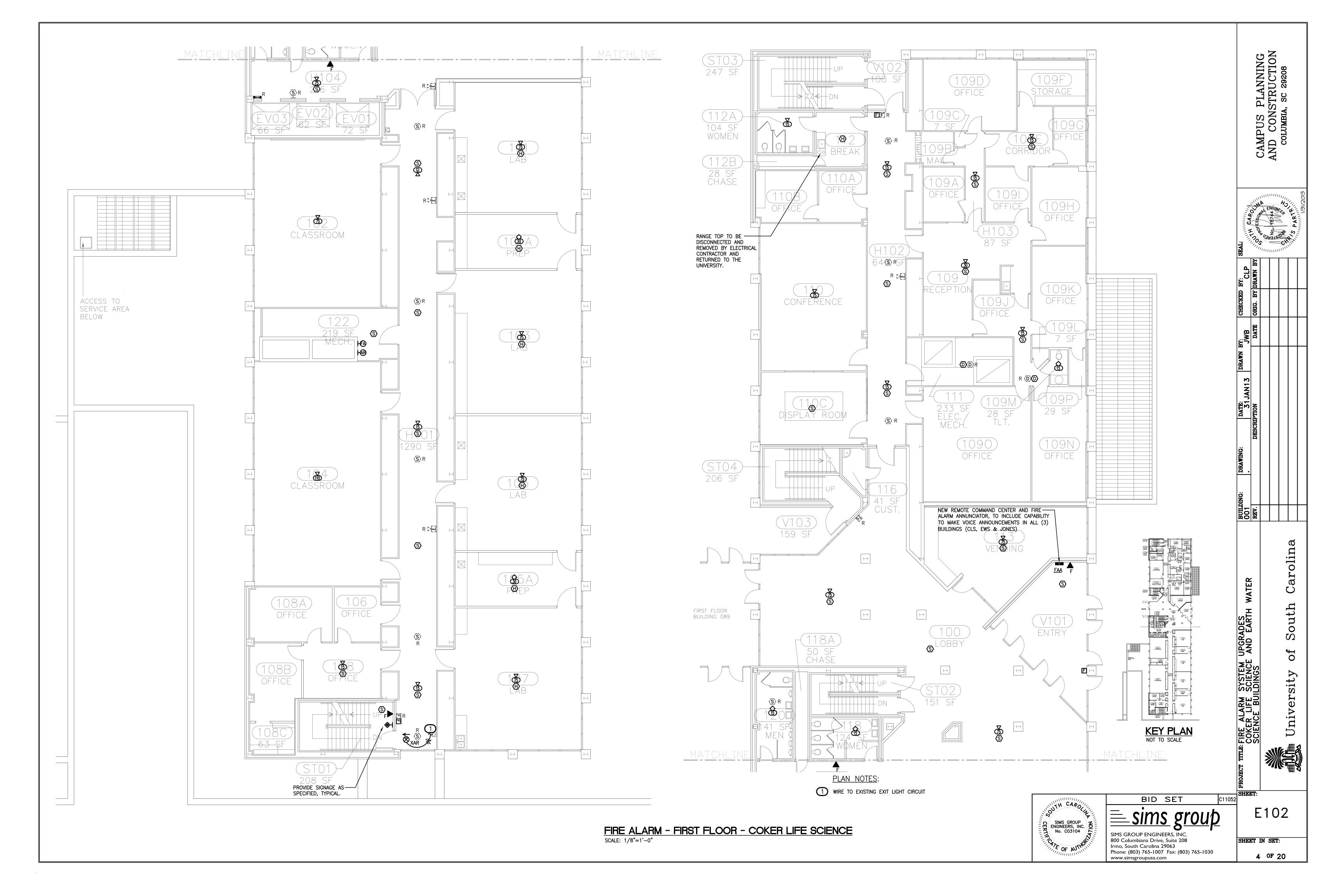
2 OF 20

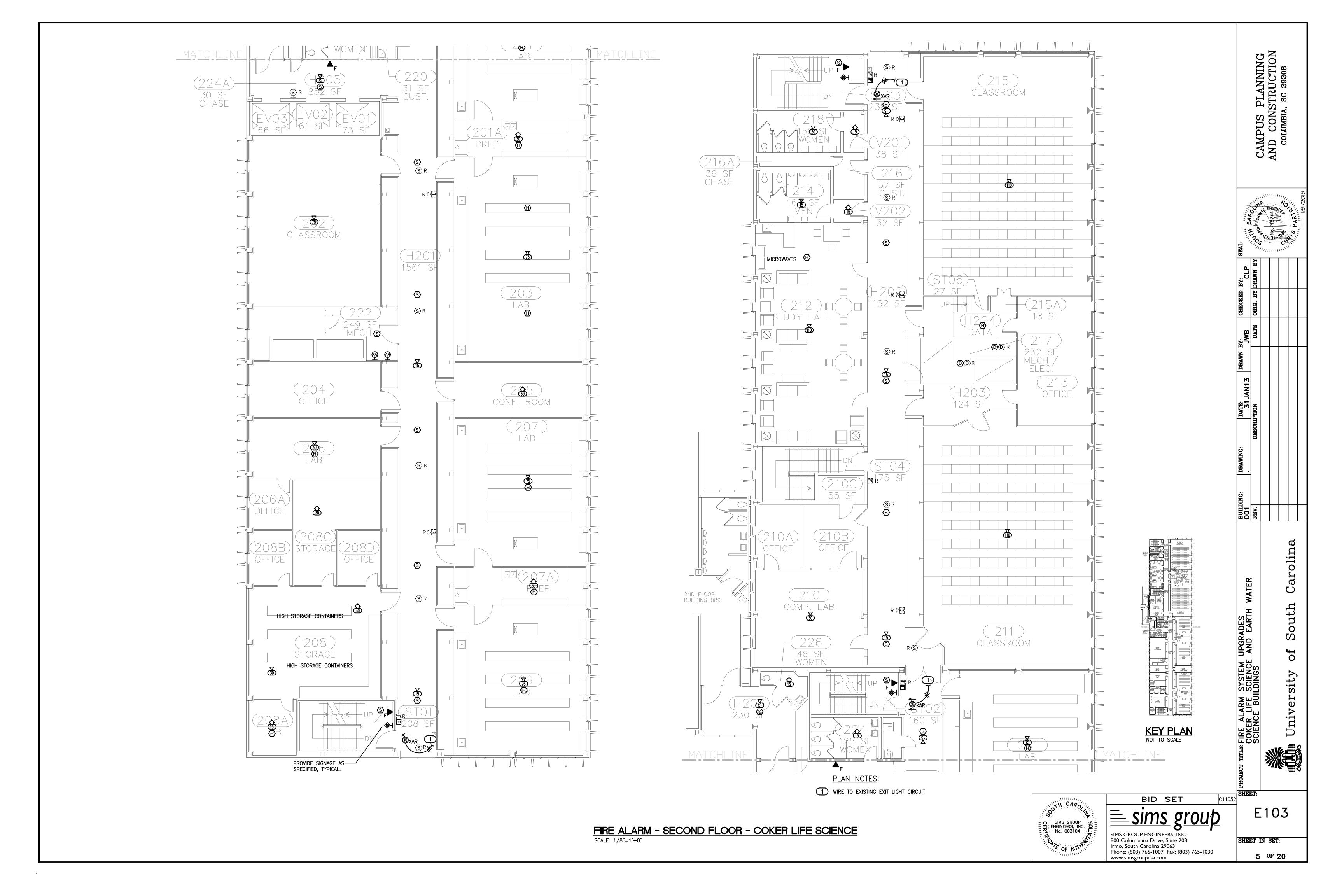
SIMS GROUP ENGINEERS, INC. 800 Columbiana Drive, Suite 208 Irmo, South Carolina 29063 Phone: (803) 765-1007 Fax: (803) 765-1030 www.simsgroupusa.com

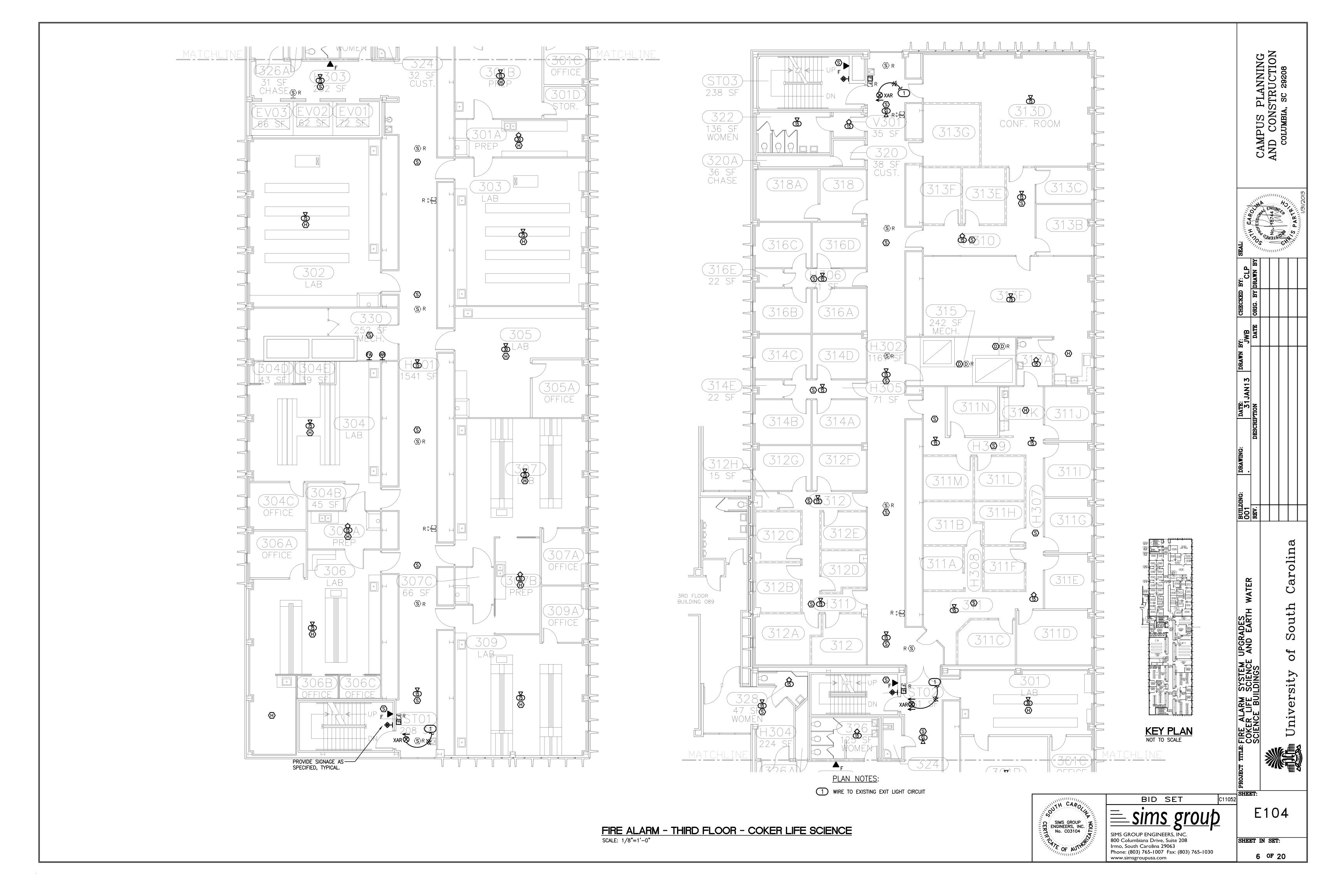
-EXISTING FACP TO REMAIN DURING CONSTRUCTION, RELOCATE AS NOTED AT END OF PROJECT. NEW COKER LIFE SCIENCE FIRE ALARM DEVICES TO BE WIRED TO THIS FACP. COORDINATE RELOCATION OF FACP WITH OWNER AND USC FIRE MARSHAL PRIOR TO MOVING PANEL. EXISTING CONDUIT AND WIRING BETWEEN EXISTING FACP'S TO BE LOWERED TO ALLOW ROOM FOR EXISTING COKER FACE NEW AND RELOCATED FACP'S. <u>THIS WORK TO BE</u> - <u>PERFORMED PRIOR TO START OF OTHER WORK</u>. -FURNISH AND INSTALL NEW SIMPLEX 4100U TO FEED NEW EARTH WATER I~EXISTING∕E,WS FAÇP SCIENCE FIRE ALARM DEVICES. EXISTING COKER FACP AND EWS FACP TO REMAIN DURING CONSTRUCTION, TO BE REMOVED COMPLETE ONCE NEW FIRE ALARM SYSTEMS INSTALLED AND OPERABLE.

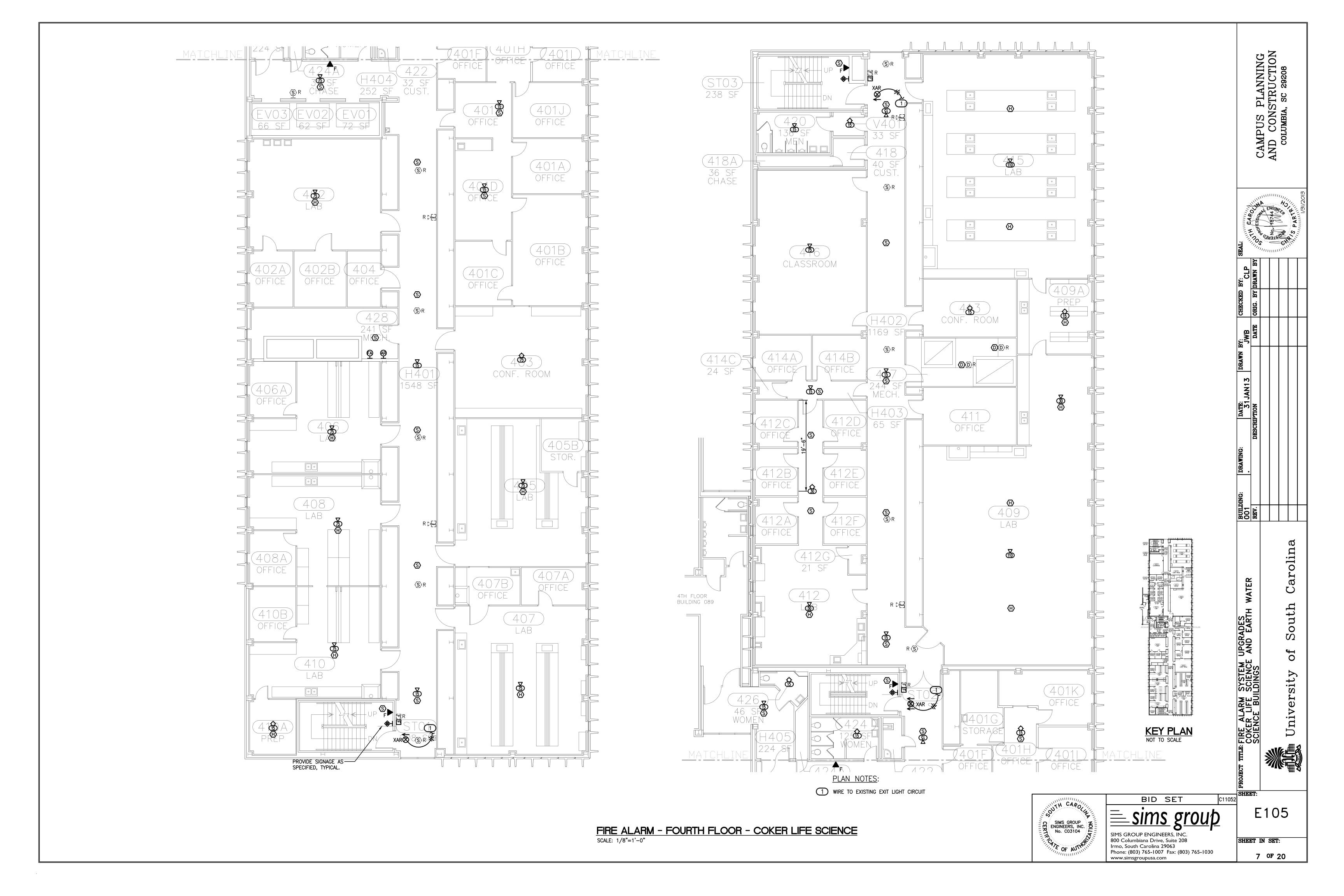
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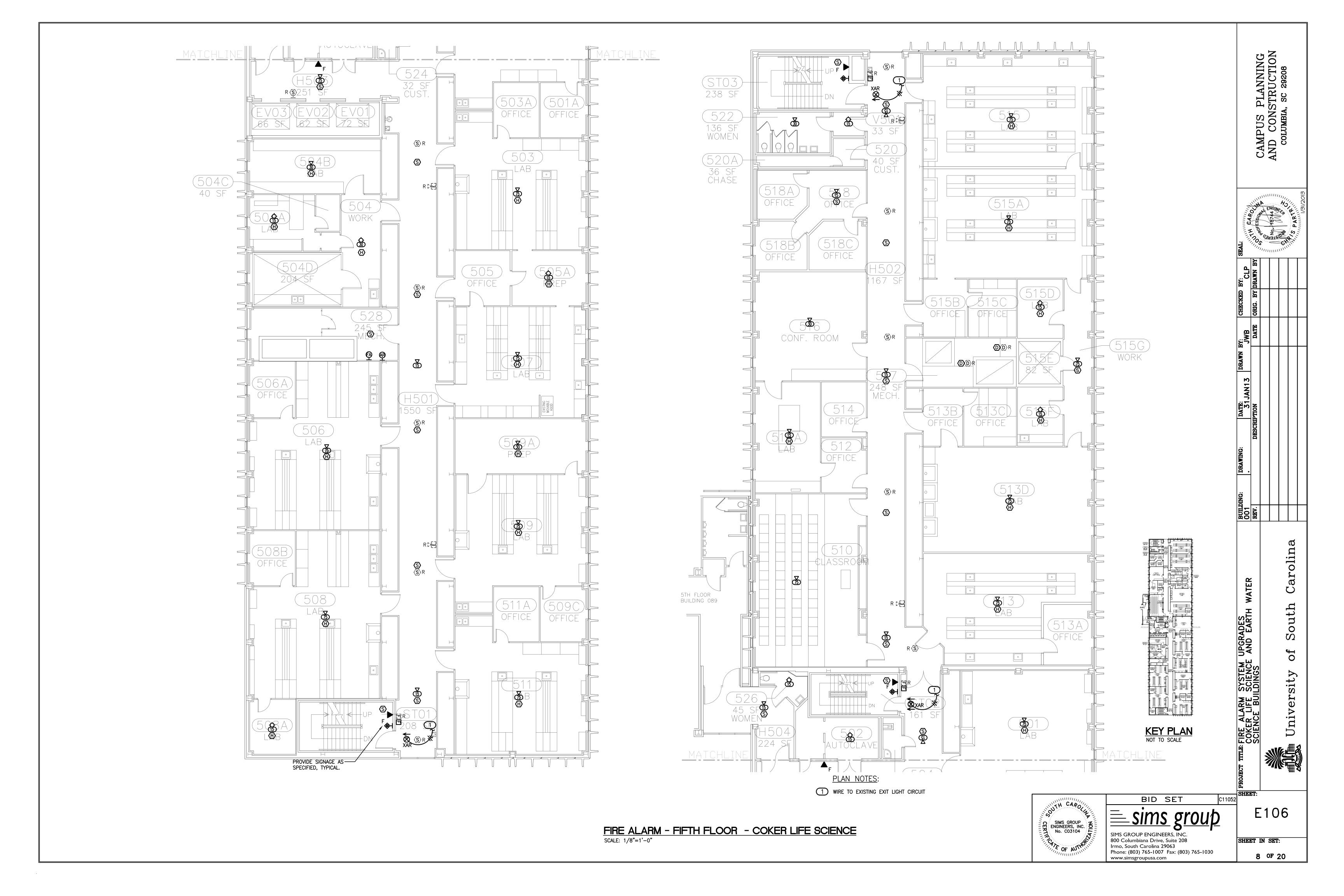




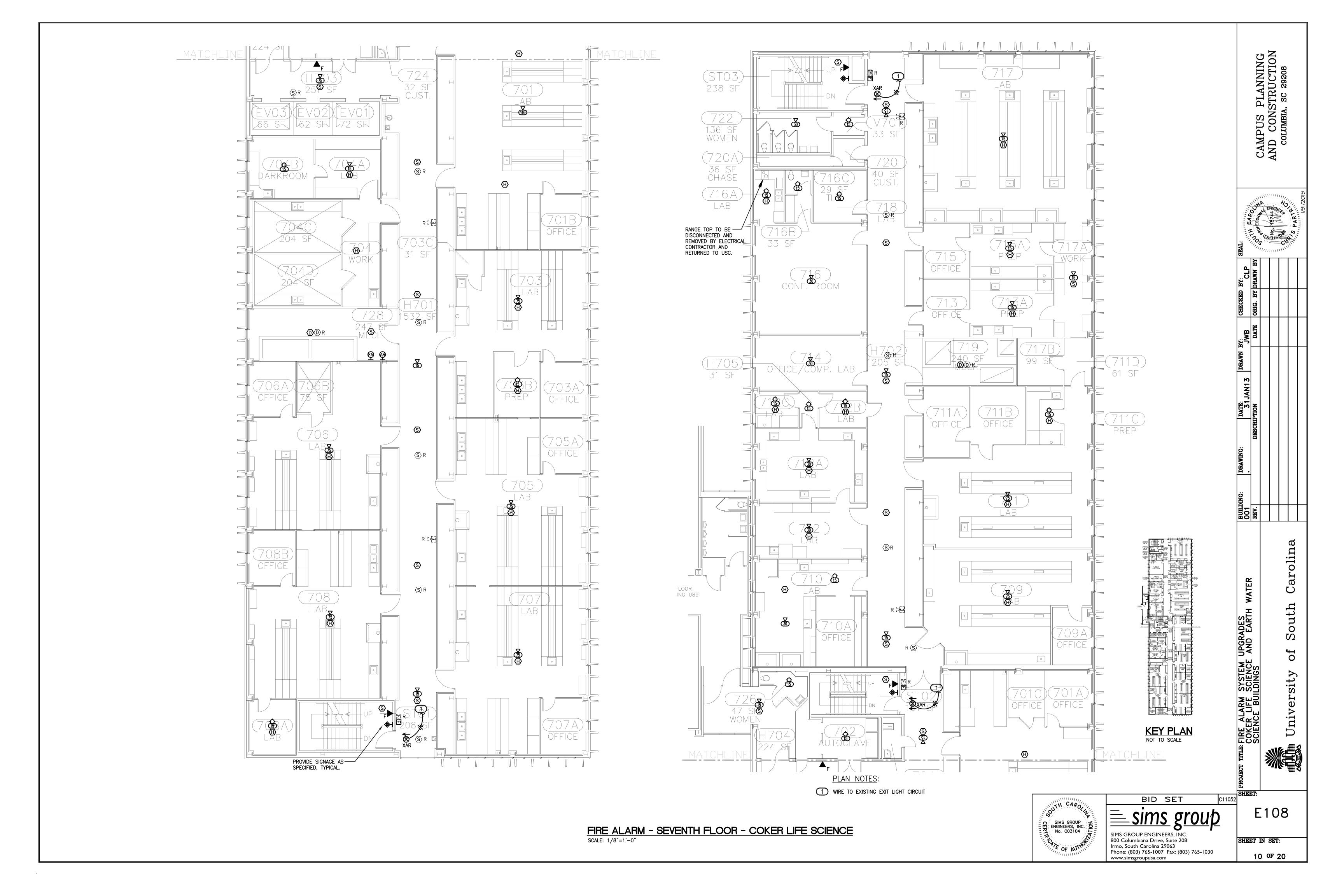


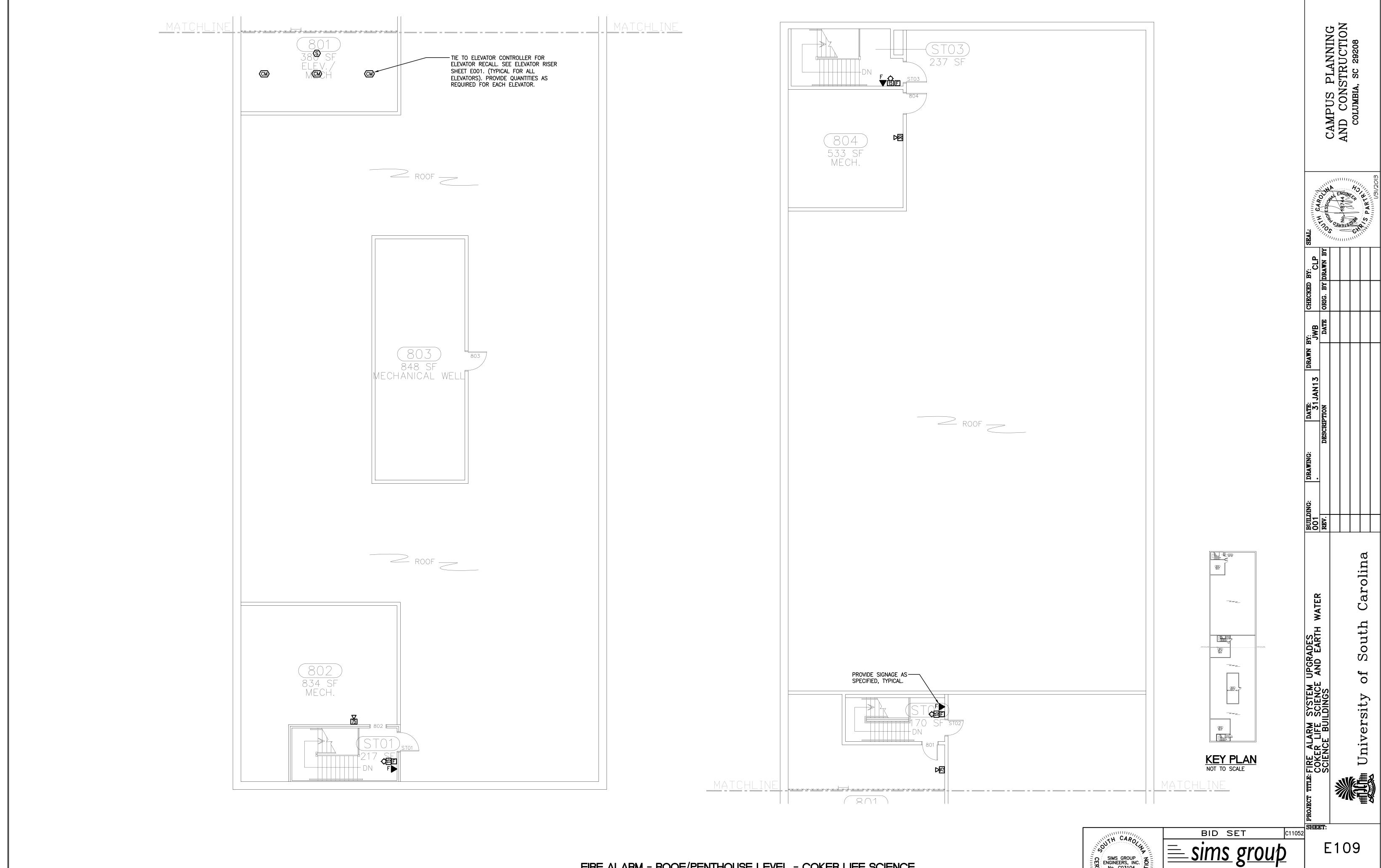








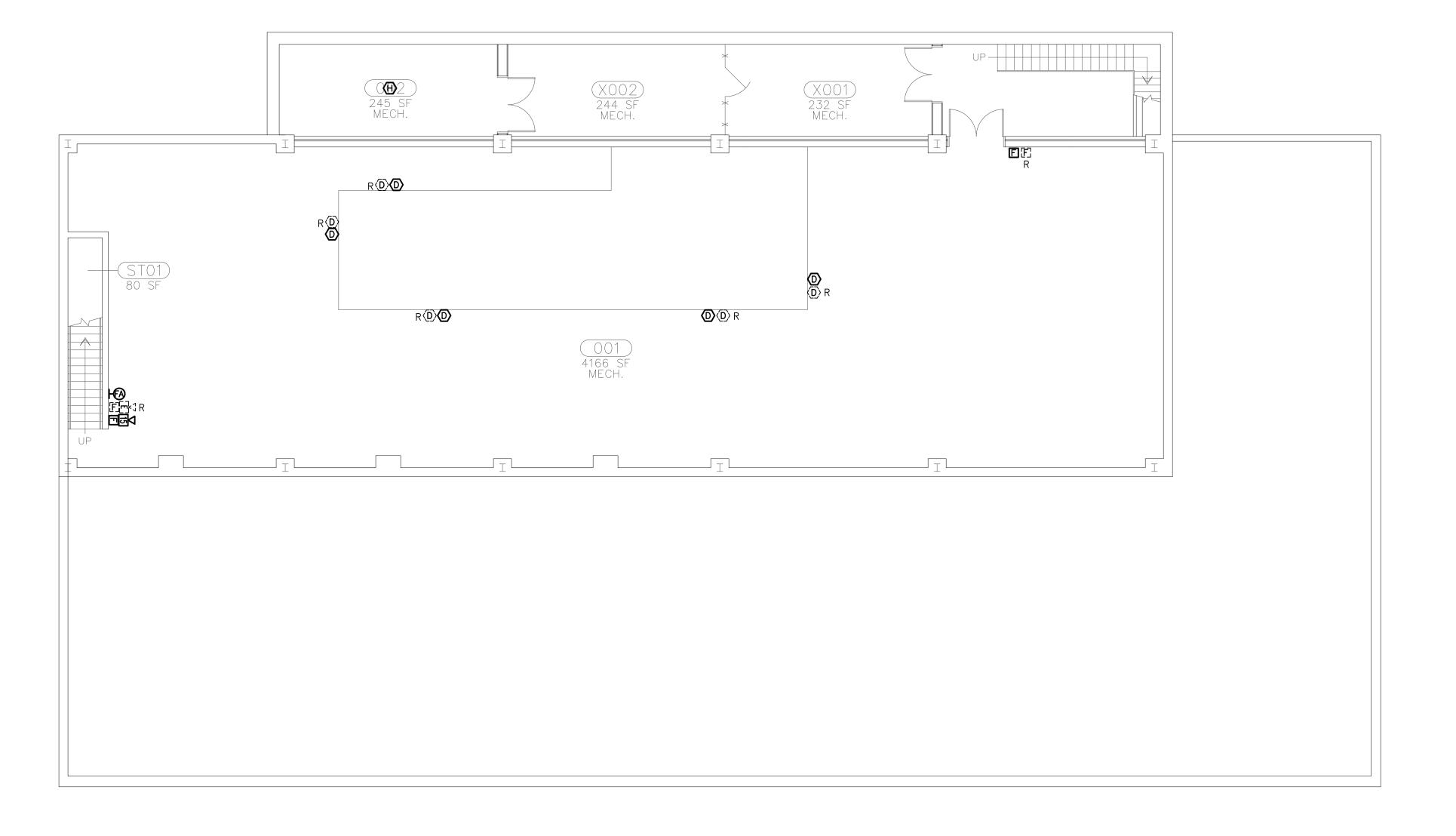




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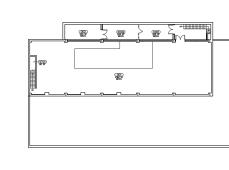
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SHEET IN SET: 11 OF 20



BUILDING: DRAWING: DATE: JAN13 DRAWN BY: CHECKED BY: CLP 31 JAN1 STEV. DESCRIPTION DATE ORIG. BY DRAWN IN THE ORIG. BY DRAWN IN THE

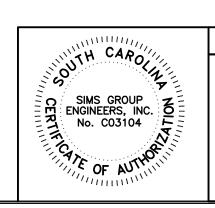
FIRE ALARM - BASEMENT LEVEL - EARTH WATER SCIENCE SCALE: 1/8"=1'-0"



KEY PLAN
NOT TO SCALE



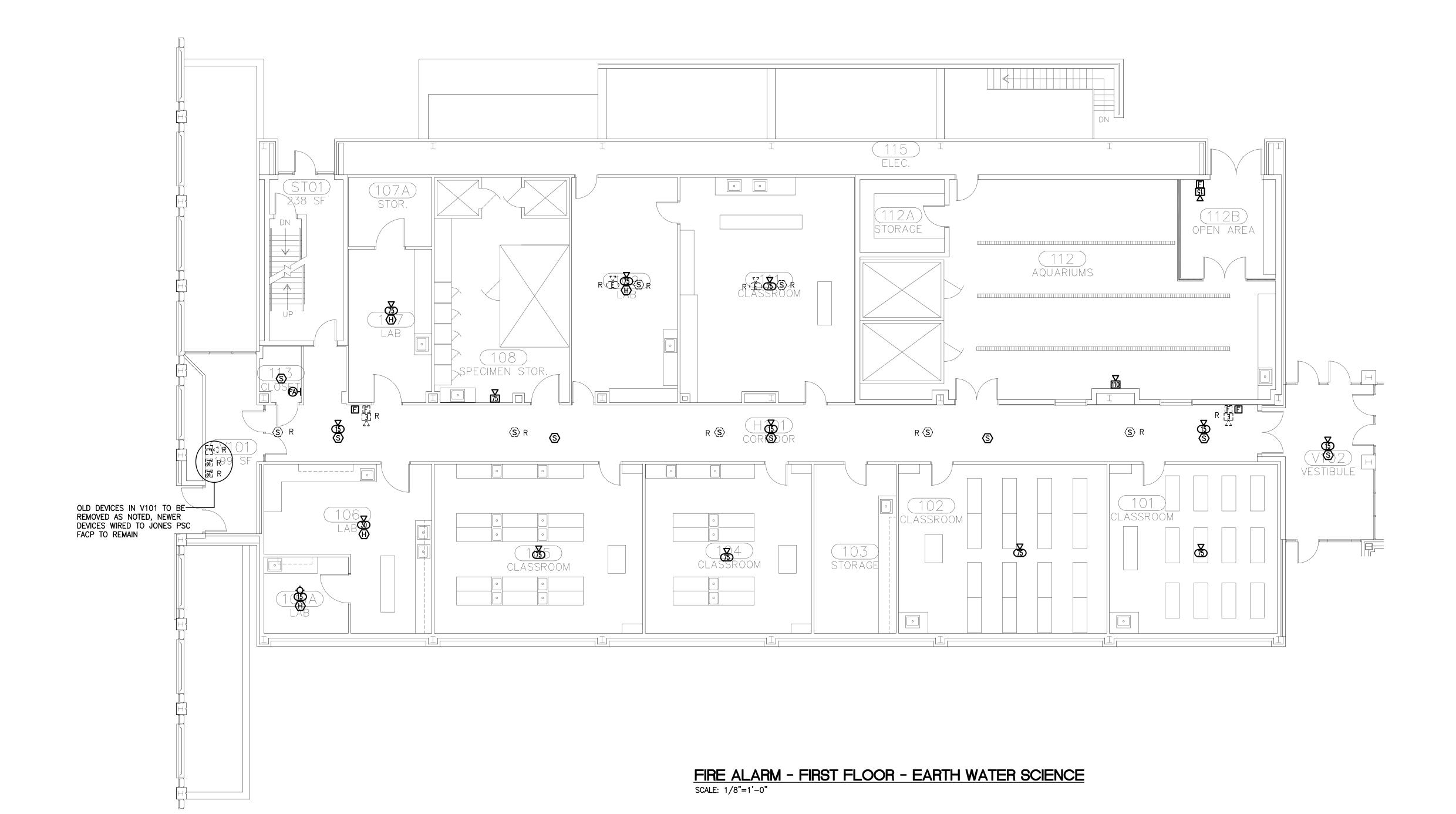
WATER

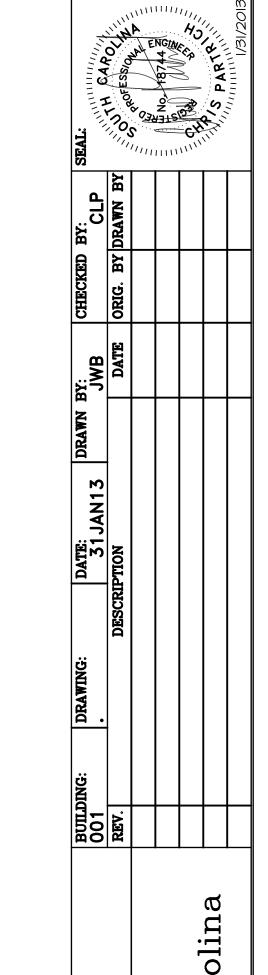




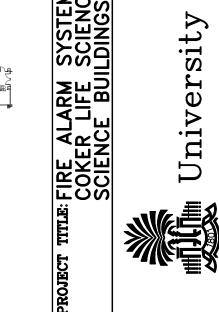
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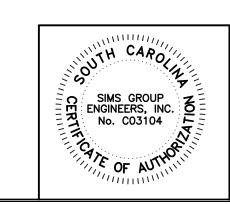




KEY PLAN NOT TO SCALE



WATER

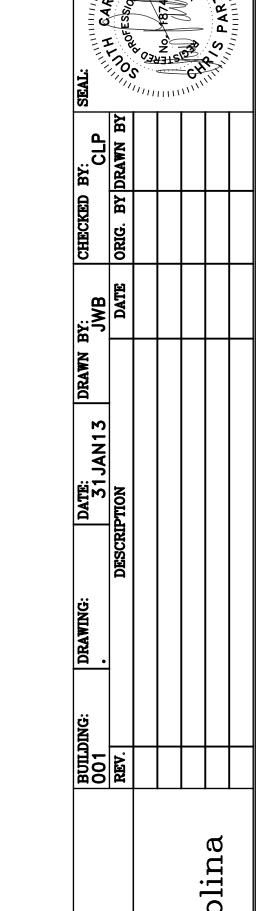


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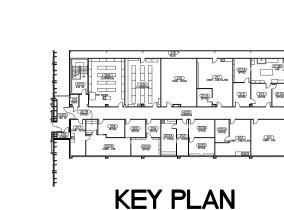
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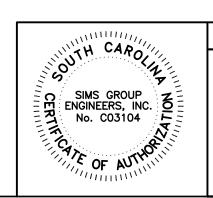
SHEET IN SET:



FIRE ALARM SYSTEM UPGRADES COKER LIFE SCIENCE AND EARTH SCIENCE BUILDINGS

KEY PLAN
NOT TO SCALE





212 OFFICE

211A OFFICE

203C) OFFICE

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

R (S)

2**6**3 OFFICE

231 COMP. LAB

PROVIDE SIGNAGE AS SPECIFIED, TYPICAL.

(208) CLASSROOM

206 OFFICE

R ⟨S⟩ ⟨S⟩

204A) OFFICE

2 **3** /

XRAY MACHINE

TO EXISTING EXIT

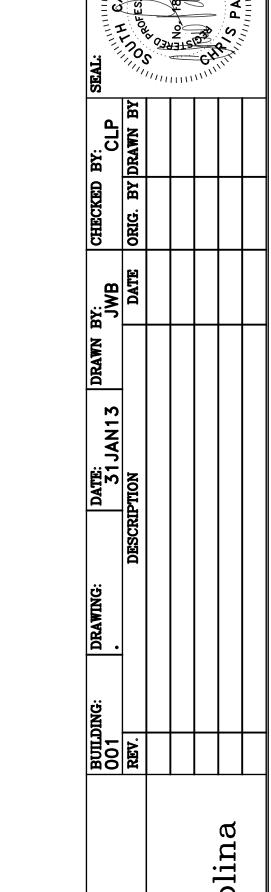
2**6**6

OLD DEVICES IN V201 TO BE
REMOVED AS NOTED, NEWER
DEVICES WIRED TO JONES PSC
FACP TO REMAIN



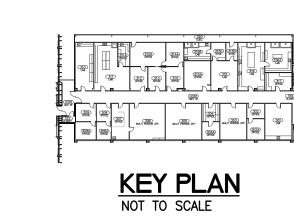
E203

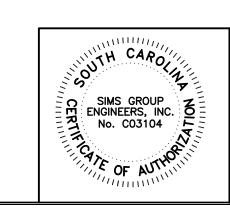
SHEET IN SET: 14 OF 20



FIRE ALARM SYSTEM UPGRADES COKER LIFE SCIENCE AND EARTH SCIENCE BUILDINGS







3 19 A LAB

317 OFFICE

302 OFFICE

314A) OFFICE

314 OFFICE

313 OFFICE

312 OFFICE

R ⑤ (m)-(1 R **⑥**

(311) LAB

OLD DEVICES IN V301 TO BE REMOVED AS NOTED, NEWER DEVICES WIRED TO JONES PSC FACP TO REMAIN

3**6**2 **6**4

309A OFFICE

3**3**5 LAB

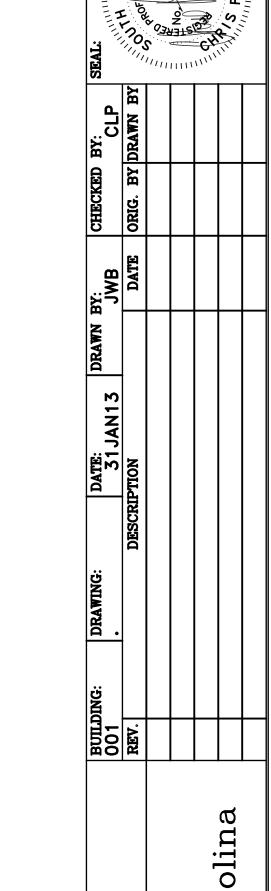
304A) OFFICE

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

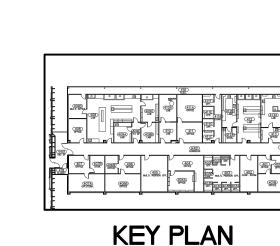
BID SET SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

E204

SHEET IN SET: 15 OF 20



FIRE ALARM SYSTEM UPGRADES COKER LIFE SCIENCE AND EARTH SCIENCE BUILDINGS

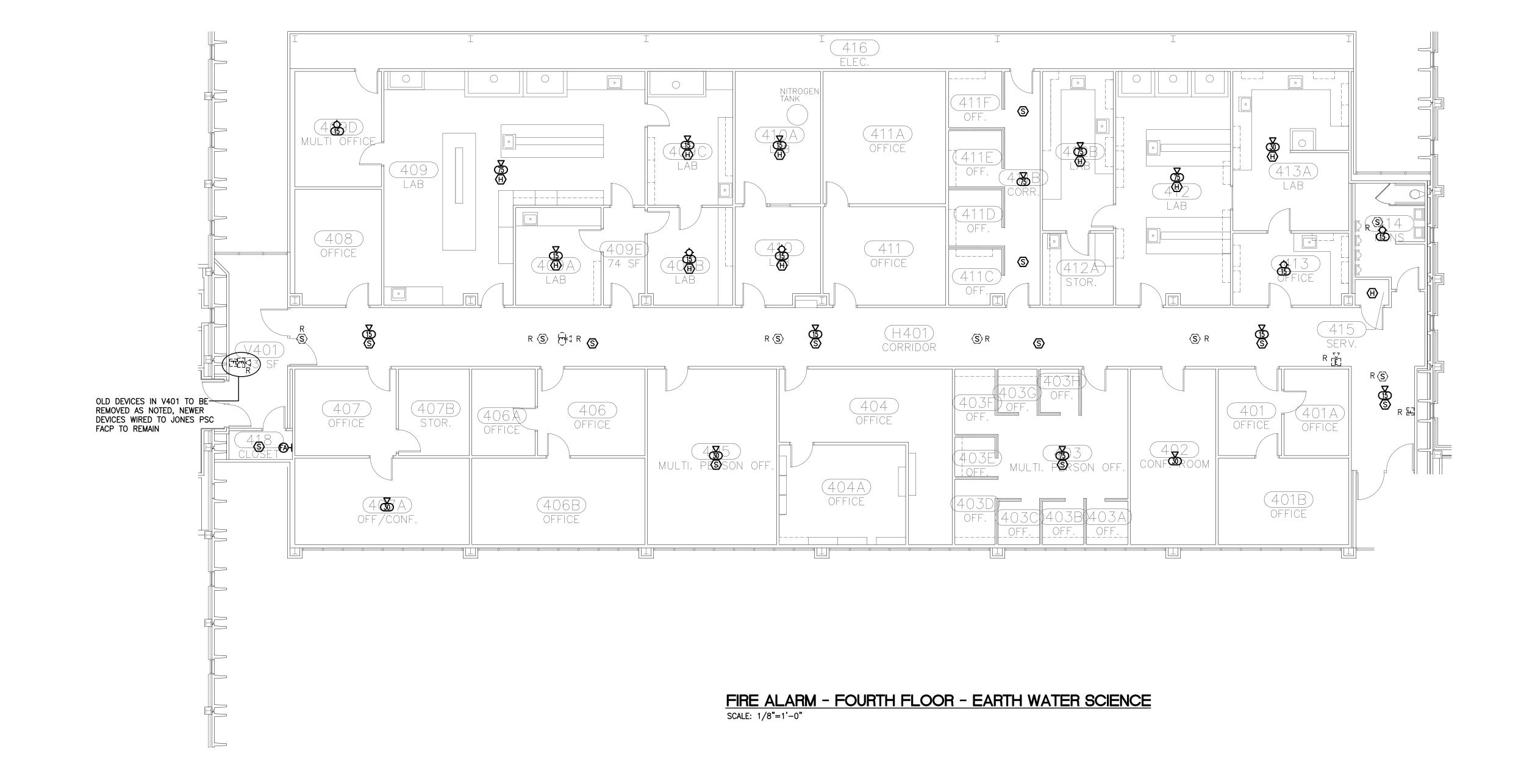


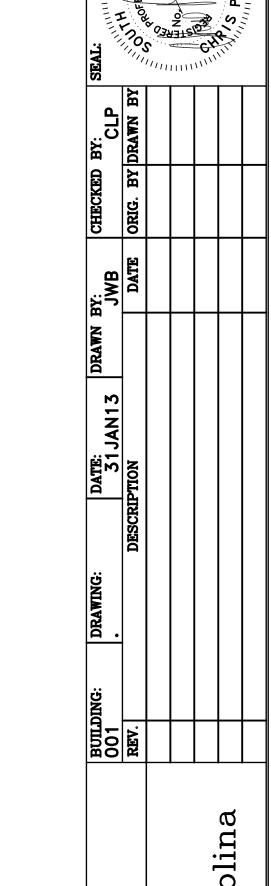
KEY PLAN
NOT TO SCALE

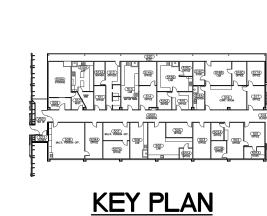
BID SET SIMS GROUP ENGINEERS, INC. No. CO3104 SIMS GROUP ENGINEERS, INC. 800 Columbiana Drive, Suite 208 Irmo, South Carolina 29063 Phone: (803) 765-1007 Fax: (803) 765-1030 www.simsgroupusa.com

E205

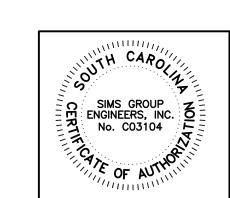
SHEET IN SET: 16 OF 20







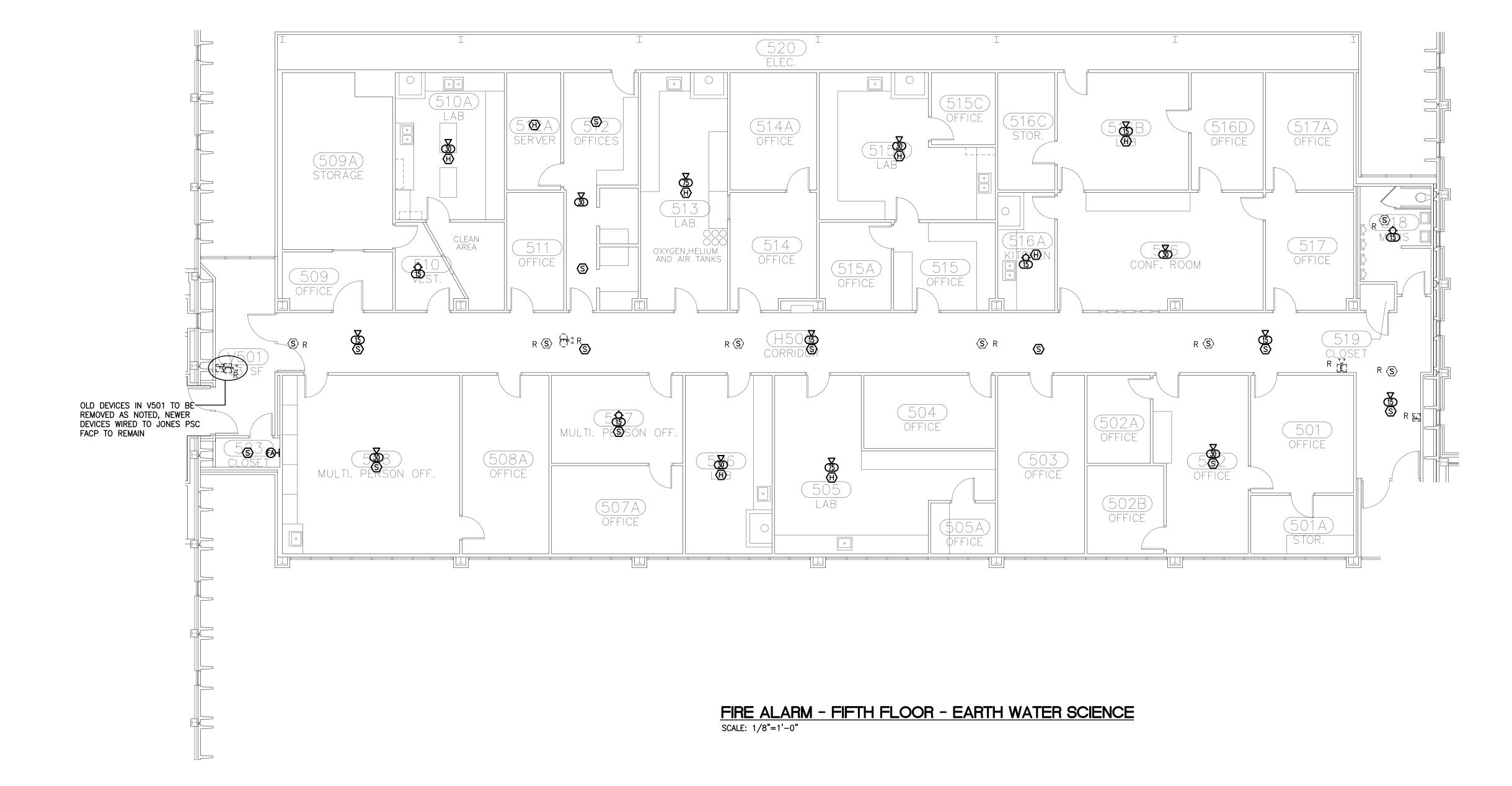
FIRE ALARM SYSTEM UPGRADES COKER LIFE SCIENCE AND EARTH SCIENCE BUILDINGS KEY PLAN
NOT TO SCALE

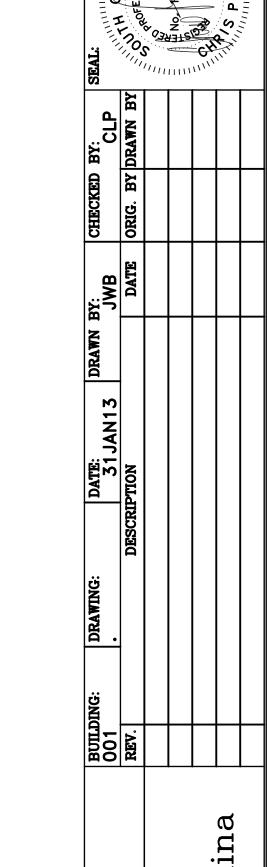


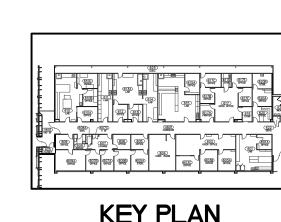
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800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

E206

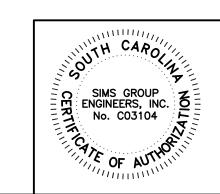
SHEET IN SET: 17 OF 20







KEY PLAN
NOT TO SCALE



620B) STOR.

620A) OFFICE

GO OFFICE

617F OFFICE

OPEN OFFICE

603A OFFICE

75 (H)

610 LAB

OLD DEVICES IN V601 TO BE REMOVED AS NOTED, NEWER DEVICES WIRED TO JONES PSC FACP TO REMAIN

610A OFFICE

612 OFFICE

(615) LAB

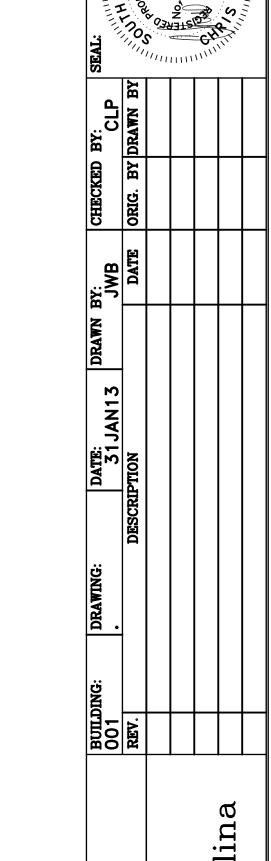
FIRE ALARM - SIXTH FLOOR - EARTH WATER SCIENCE

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

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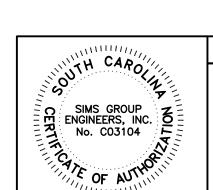
E207

SHEET IN SET: 18 OF 20



FIRE ALARM SYSTEM UPGRADES COKER LIFE SCIENCE AND EARTH SCIENCE BUILDINGS

WATER





KEY PLAN
NOT TO SCALE

E208

SHEET IN SET: 19 OF 20



OWNER OR THE ENGINEER.

ELEVATOR RISER DIAGRAM (Non-Sprinkled Building)

PLANNING ISTRUCTION A, SC 29208

CAMPUS AND CONS COLUMBIA

COKER LIFE SCIENCE SCIENCE SCIENCE SCIENCE

SIMS GROUP ZO ENGINEERS, INC. O No. C03104

SIMS GROUP ENGINEERS, INC.

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

800 Columbiana Drive, Suite 208

Irmo, South Carolina 29063

www.simsgroupusa.com

E601

SHEET IN SET:

20 OF 20