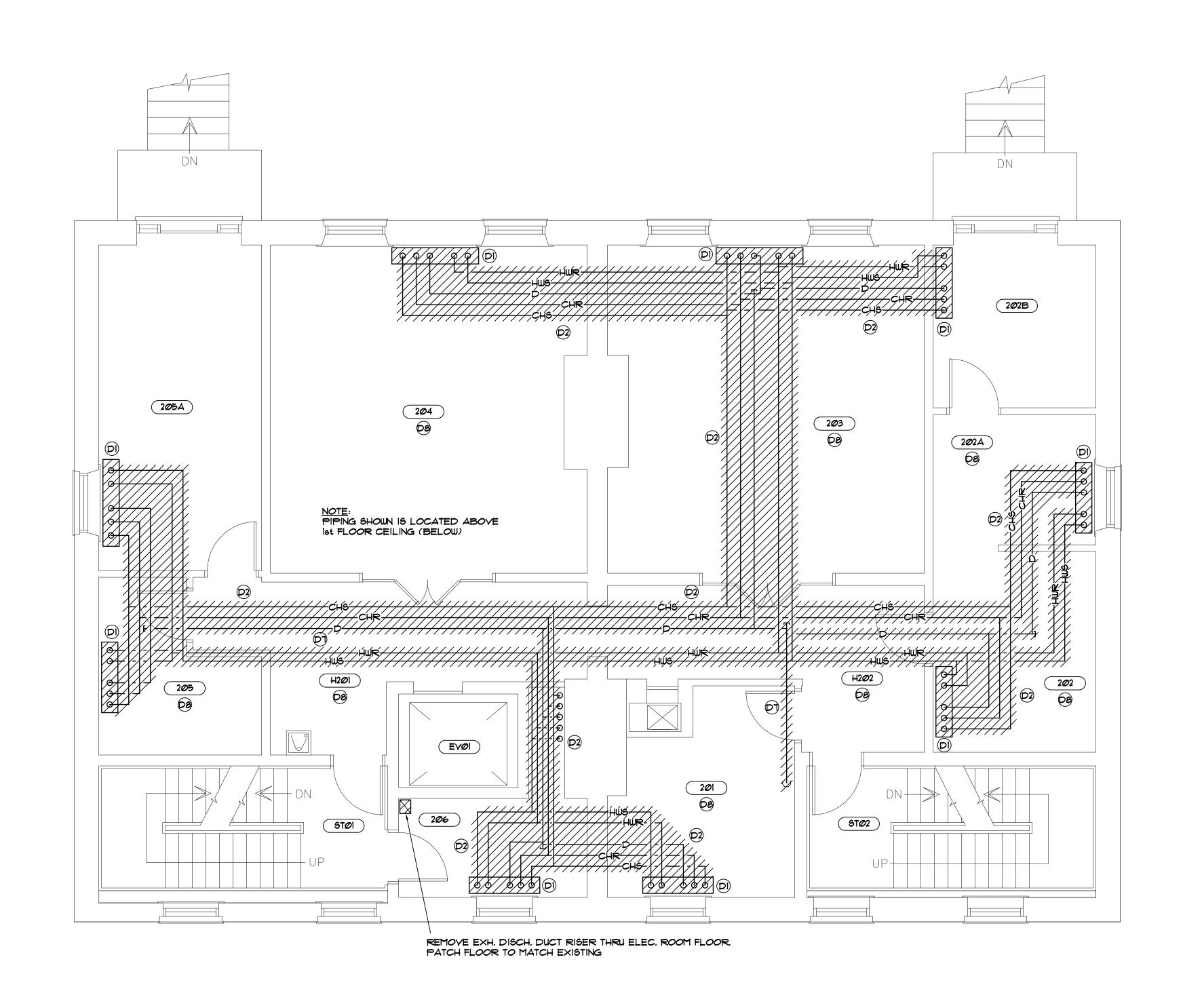


Second Floor **HVAC Demolition**

M-2-D









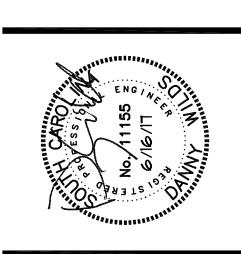


ARCHITECTURE INTERIORS PLANNING

WATSON TATE SAVORY

ROLINA

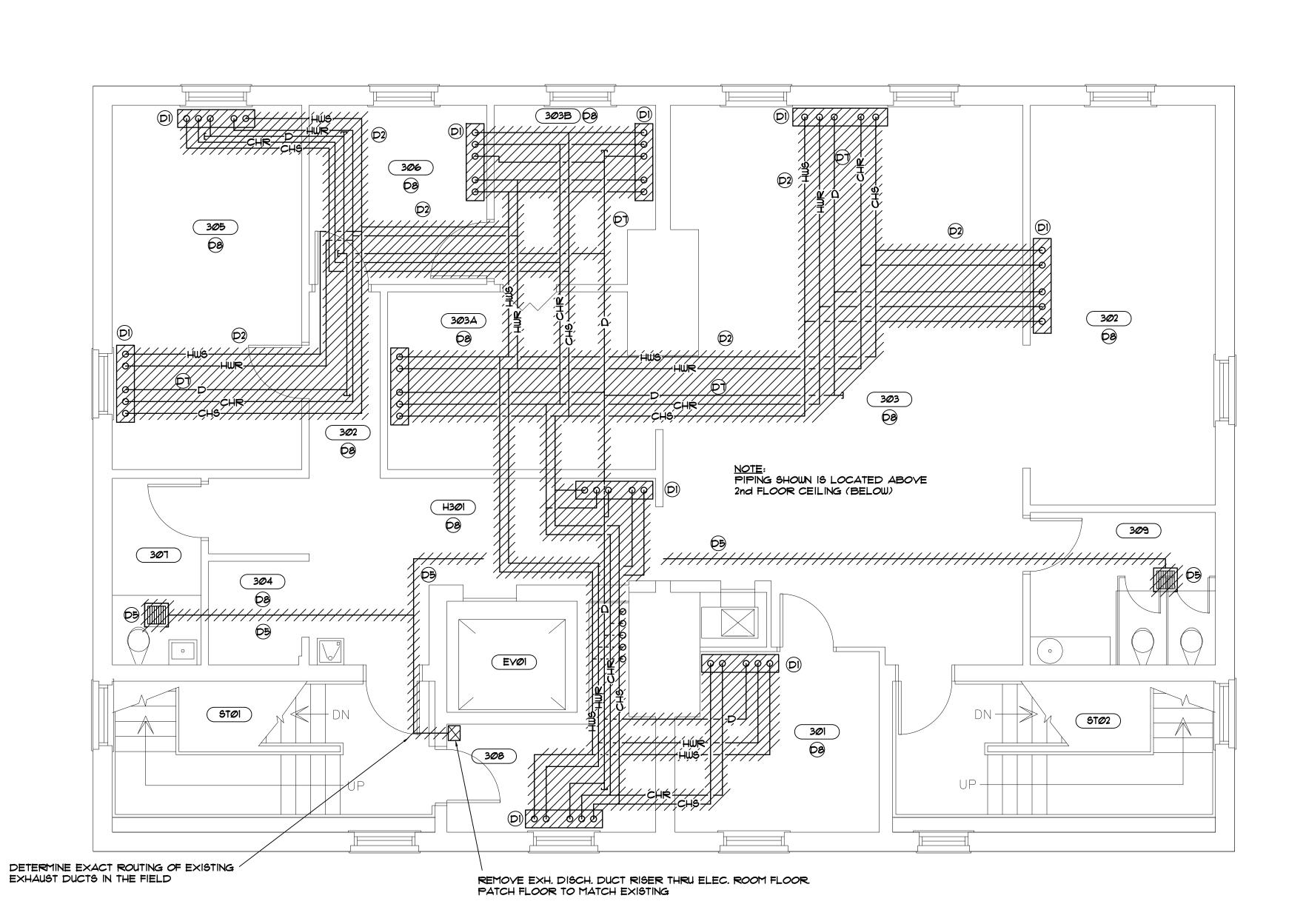
JNIVERSITY OF SOUTH CARC



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Third Floor HVAC Demolition Plan

M-3-D



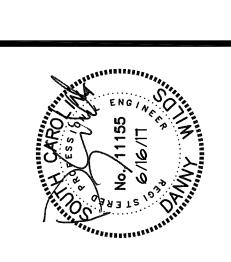


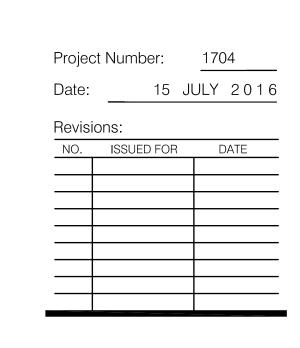




INTERIORS PLANNING







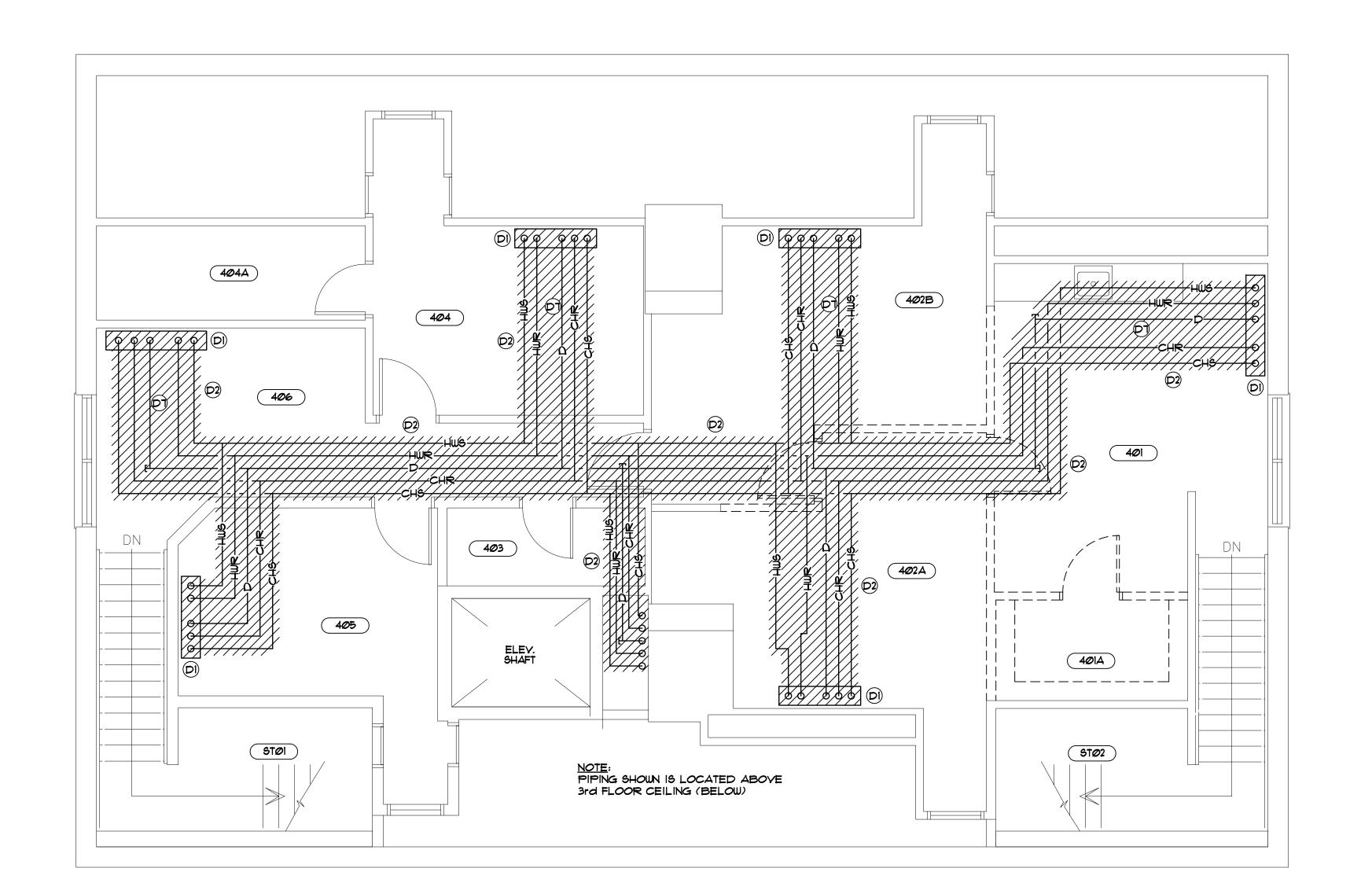
Fourth Floor **HVAC Demolition** Plan

CONSTRUCTION DOCUMENTS

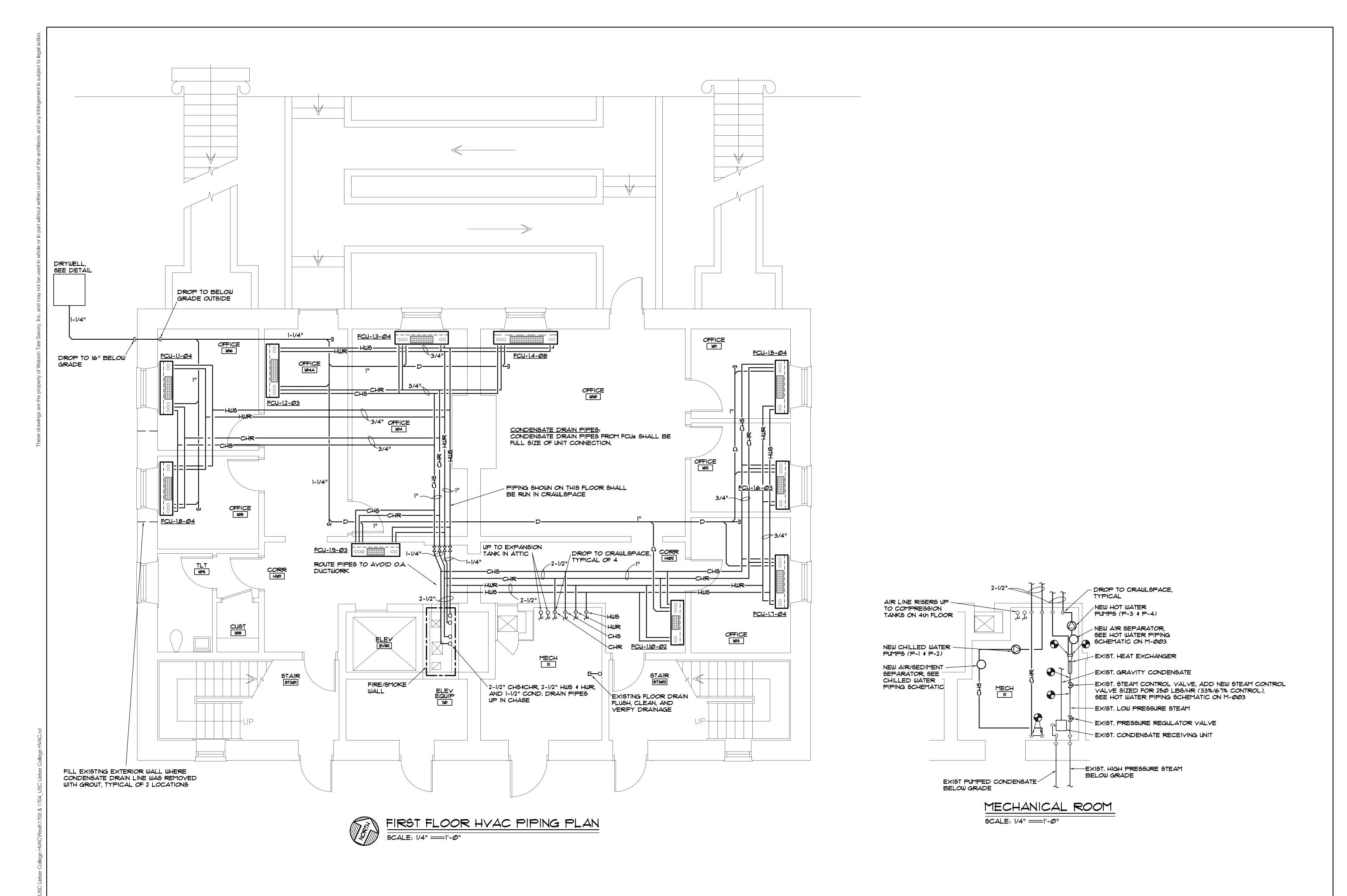
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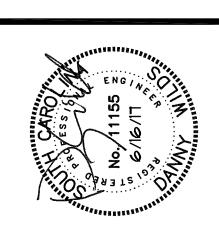


ARCHITECTURE INTERIORS PLANNING

WATSON TATE SAVORY

WATSON TATE SAVOR

UNIVERSITY OF SOUTH CAROLINA



Project Number: 1704

Date: 15 JULY 2016

Revisions:

NO. ISSUED FOR DATE

FIRST Floor HVAC Piping Plan

M-1-P

MECHANICAL 4403 Broad River Road Columbia, S.C. 29210

ESIGN (803) 731-9834 (803) 731-9837 FAX

DATE: 06/16/17

CONTACT: Danny Wilds

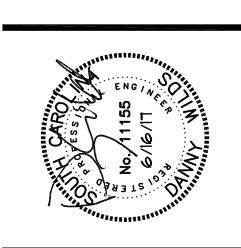
сомм. No. 163277

MECHANICAL

DESIGN, INC.
COLUMBIA, SC.
No. C00096

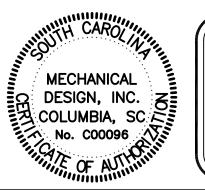






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FIRST Floor **HVAC Ductwork**





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Second Floor HVAC Piping Plan

M-2-P

MECHANICAL 4403 Broad River Road Columbia, S.C. 29210 (803) 731-9834 (803) 731-9837 FAX

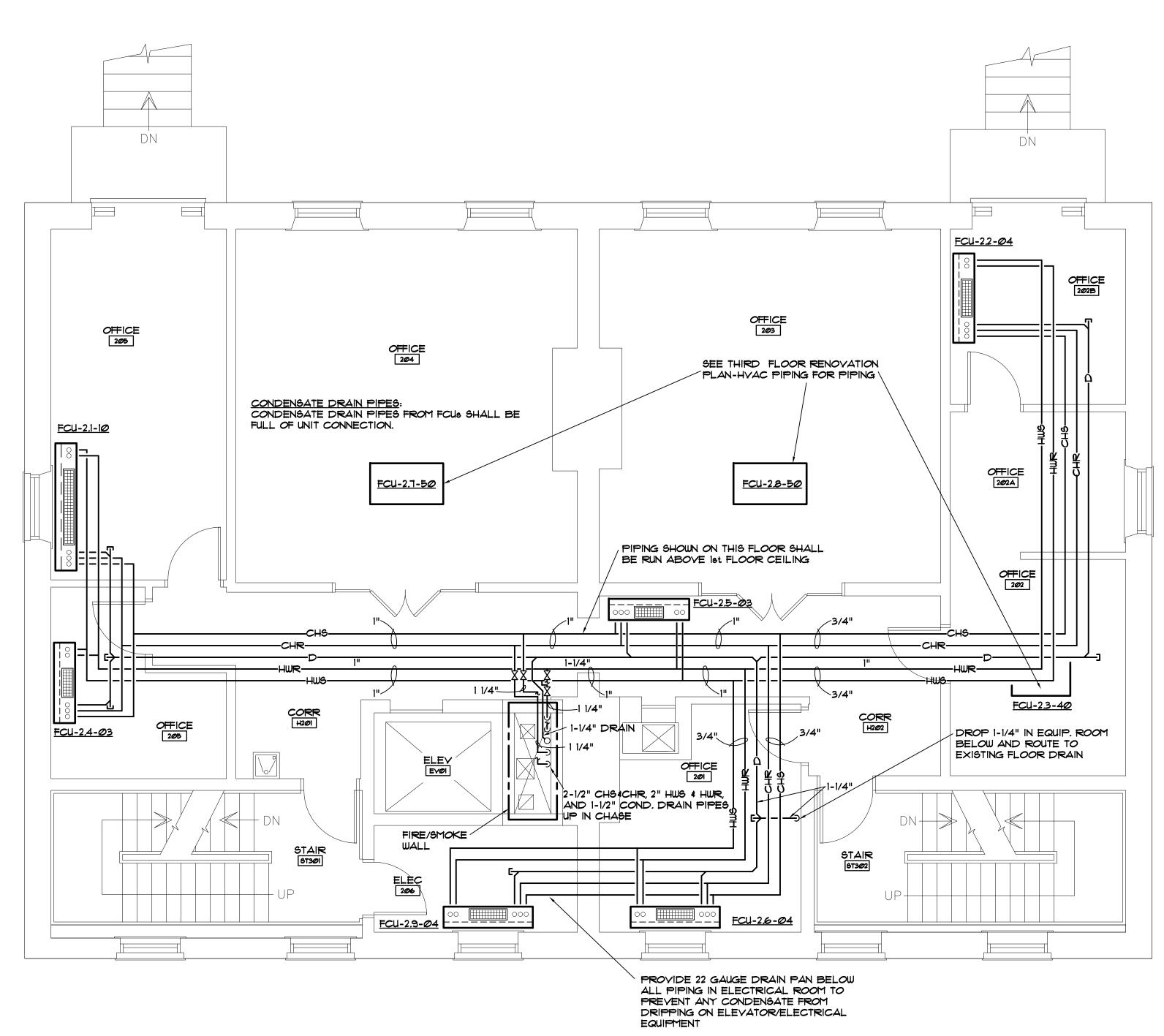
DATE: 06/16/17

CONTACT: Danny Wilds

сомм. No. 163277

MECHANICAL
DESIGN, INC.
COLUMBIA, SC.
No. C00096

CONSTRUCTION DOCUMENTS



SECOND FLOOR HVAC PIPING PLAN

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

EXISTING GYP. BD. CEILING

8"x4" HSD 30 CFM

8"x6"

8"x8" RAG — 85 CFM

FCU-2.9-@4

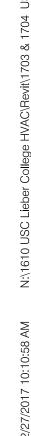
COORDINATE WITH PIPING,

14x12 EXH. DISCH. DUCT FROM OAH-1 ON 4th FLOOR

FCU-2.1-10

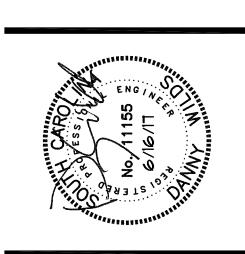
FCU-2.4-@3

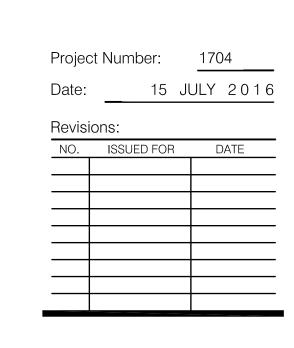












SECOND Floor **HVAC** Ductwork

MECHANICAL
DESIGN, INC.
COLUMBIA, SC.
No. C00096

FCU-22-04

FCU-2.8-5@

8"x6"

12x8 EXH. DUCT UP FROM 1st FLOOR. TRANSITION TO 12x10 AND RISE TO 3rd FLOOR

FCU-26-04

10"x10" O.A. SUPPLY UP

FIRE/SMOKE WALL

F6D

SECOND FLOOR RENOVATION PLAN-HYAC DUCT SCALE: 1/4" ==1'-0"

EXISTING GYP. BD. CEILING

8"x4" HSD /20 CFM

FCU-2.3-40

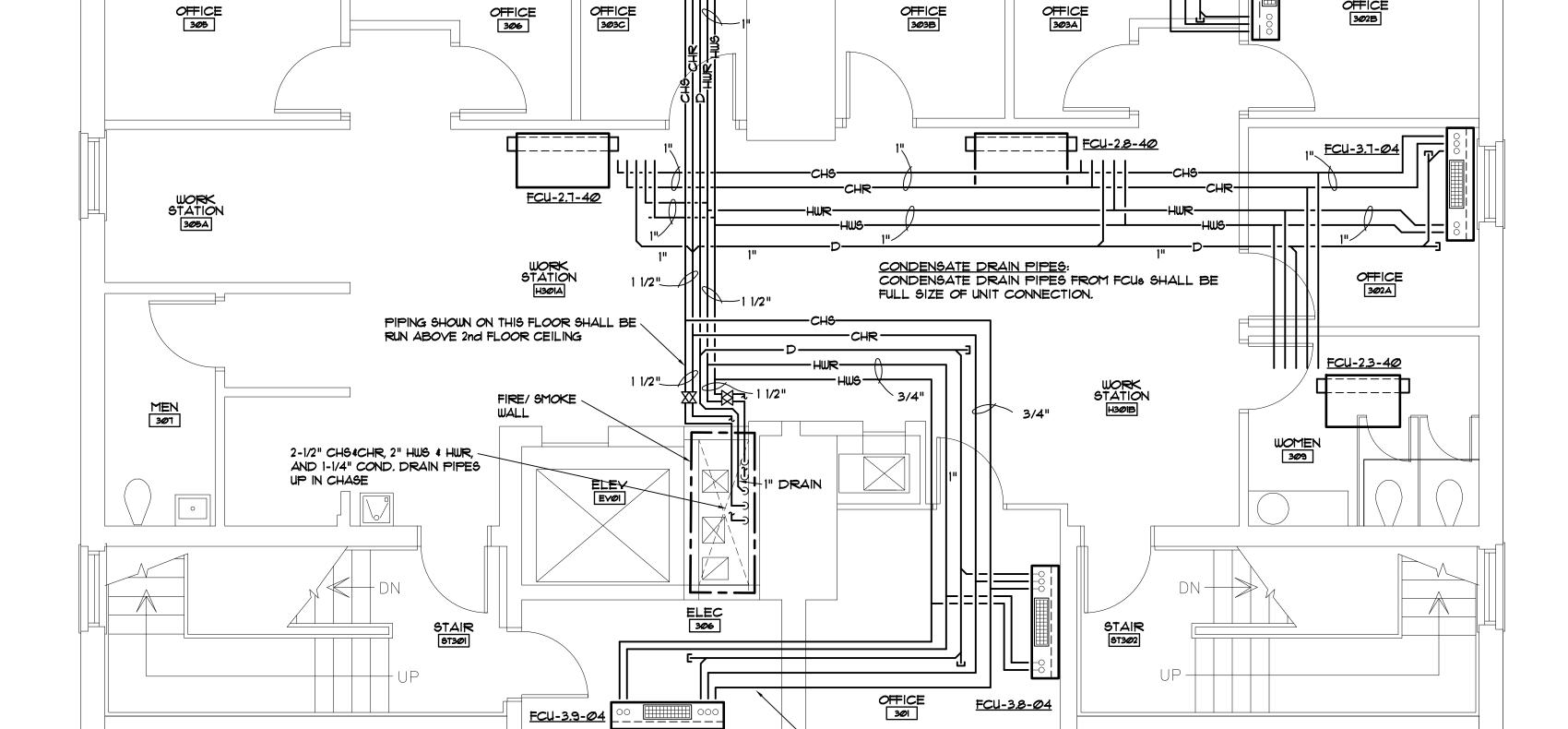




FCU-3.1-04

FCU-3.2-@3

3/4" FCU-3.3-03



FCU-3.4-03

FCU-3.5-03

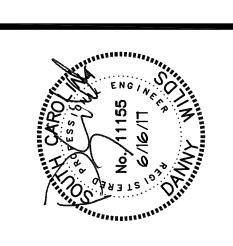
<u>FCU-3.6-06</u>

THIRD FLOOR HYAC PIPING PLAN

PROVIDE 22 GAUGE DRAIN PAN BELOW ALL PIPING IN ELECTRICAL ROOM TO PREVENT ANY CONDENSATE FROM DRIPPING ON ELECTRICAL EQUIPMENT IN ELEC. 206

ARCHITECTURE INTERIORS PLANNING

WATSON TATE SAVORY



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Third Floor **HVAC Piping Plan**





Third Floor HVAC Ductwork Plan

M-3-R

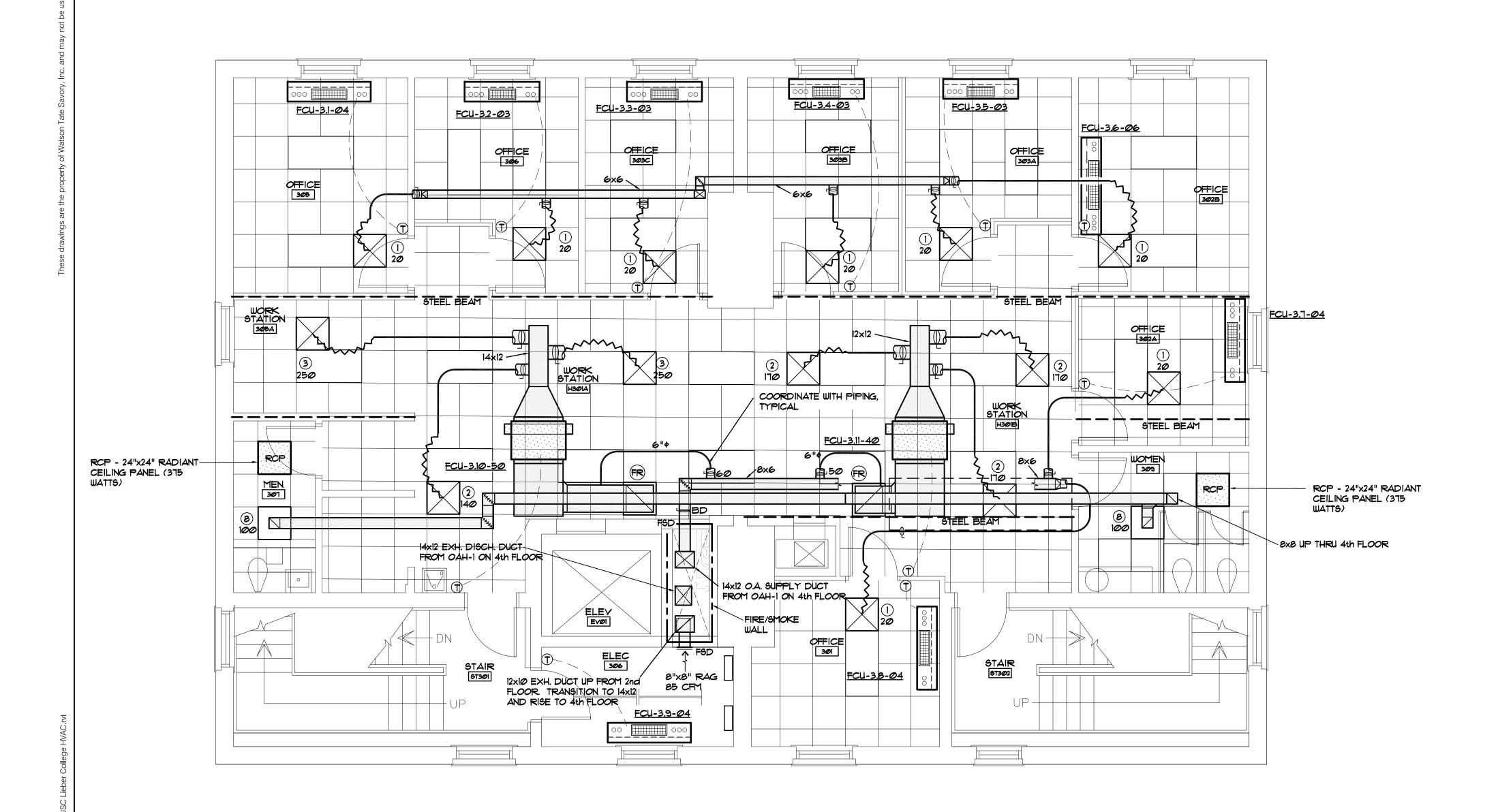
MECHANICAL 4403 Broad River Road Columbia, S.C. 29210 (803) 731-9834 (803) 731-9837 FAX

DATE: 06/16/17

CONTACT: Danny Wilds

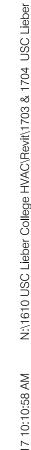
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MECHANICAL
DESIGN, INC.
COLUMBIA, SC.
No. C00096



















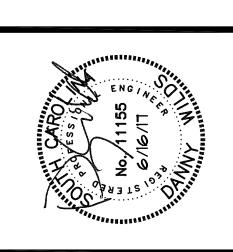






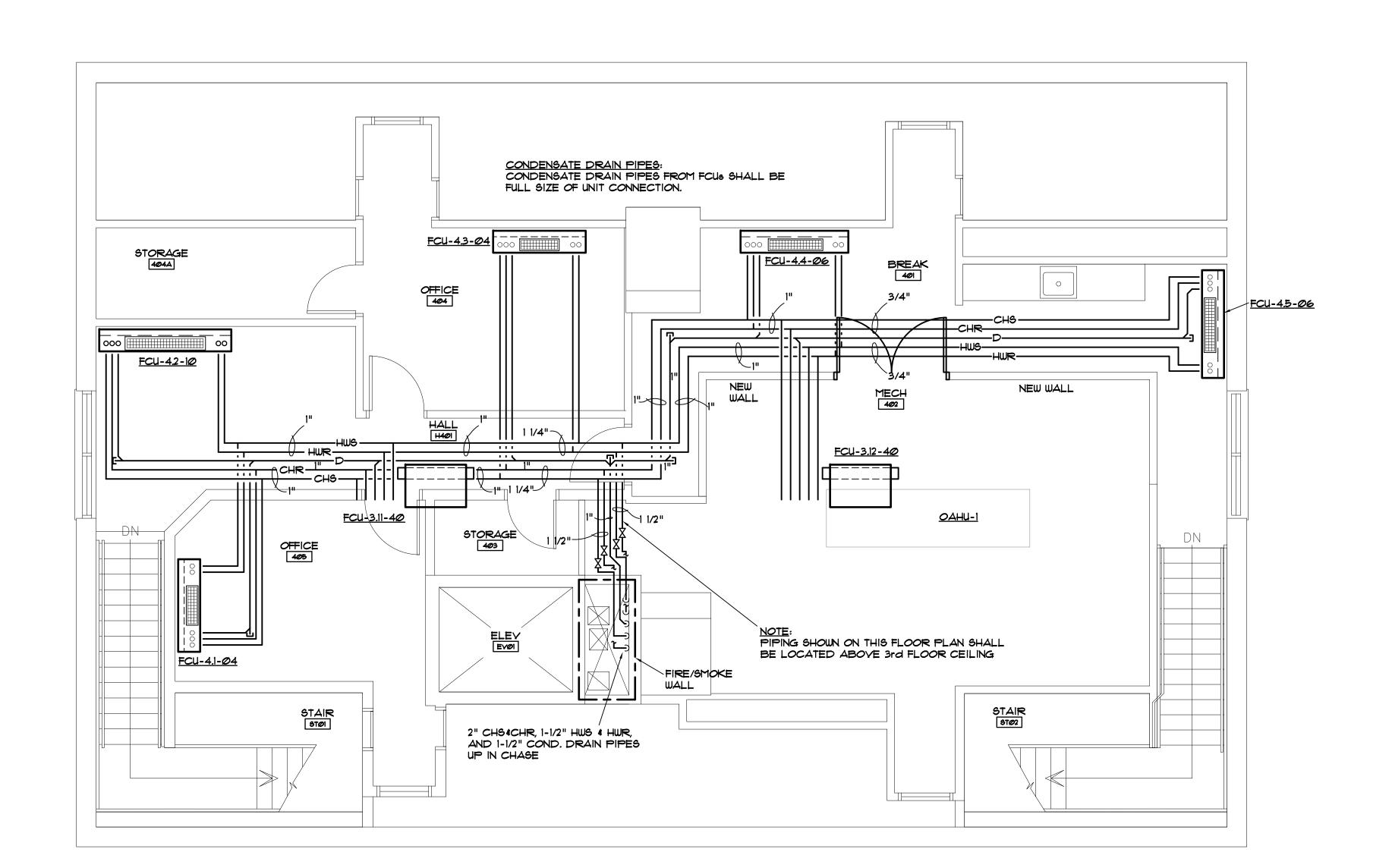


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Fourth Floor **HVAC Piping Plan**





Date: 15 JULY 2016

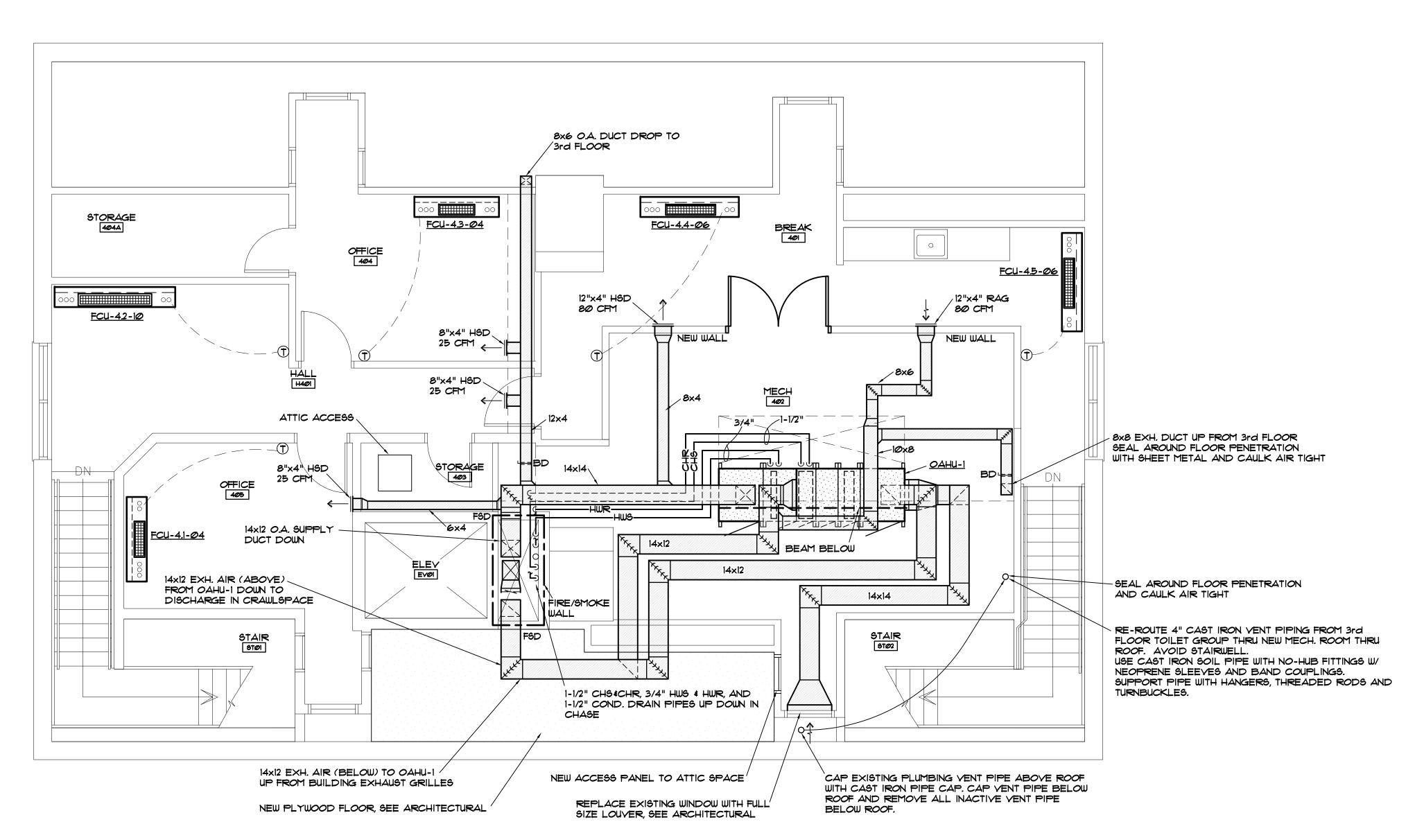
Revisions:

NO. ISSUED FOR DATE

Fourth Floor HVAC Ductwork Plan

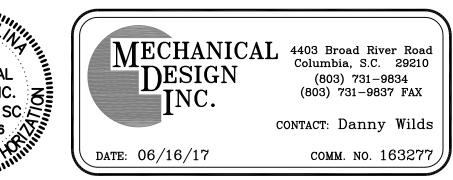
M-4-R

CONSTRUCTION DOCUMENTS



FOURTH FLOOR RENOVATION PLAN-HYAC DUCT SCALE: 1/4" ==1'-0"





	LIGHTING FIXTURE SCHEDULE							
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	OPTICAL ELEMENT	MOUNTING	VOLTS	LIGHT SOURCE
—	А	4-FOOT STRIP L.E.D. LIGHTING FIXTURE WITH A WHITE WIRE-GUARD.	H.E. WILLIAMS	76-4-L53/840-WG-7614-DRV-UNV with 5-YEAR WARRANTY ON L.E.D. ARRAYS AND DRIVER.	-	THREADED ROD	120/277V UNIVERS.	L.E.D 5,300 lumens, 4000K 48 WATTS, 110 LPW, 82 CRI
⊗ +⊗	-	EDGE-LIT L.E.D. EXIT SIGN WITH SINGLE FACE AND GREEN LETTERING. PROVIDE ARROWS/ CHEVRONS AS SHOWN ON PLAN.	EMERGI-LITE	TA-PEN-F-1-GC with 3-YEAR FULL WARRANTY ON ARRAYS AND DRIVER.	GREEN LETTERING ON CLEAR SURFACE	UNIVERSAL WALL OR CEILING	120/277V UNIVERS.	L.E.D COMPLY WITH 2015 IBC

GENERAL DEMOLITION NOTES

- REMOVE AND LEGALLY DISPOSE OF ALL EXISTING CONTROLS, DEVICES, LIGHTING FIXTURES, EXIT SIGNS, AND ALL ASSOCIATED RACEWAY AND WIRING NOTED ON PLANS. PROVIDE 2-HOUR RATED FIRESTOPPING COMPOUND IN HOLES WHERE EXISTING RACEWAYS ARE REMOVED.
- 2. THE CONTRACTOR SHALL VISIT THE SITE/ BUILDING TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND SHALL INCLUDE ALL WORK REQUIRED FOR COMPLETE DEMOLITION AND RENOVATION IN HIS BID.

GENERAL CONSTRUCTION NOTES

ELECTRICAL DRAWING INDEX

GENERAL NOTES, LEGEND, AND SCHEDULES

FIRE ALARM SYSTEM SINGLE-LINE DIAGRAM FIRE ALARM SYSTEM DEMOLITION PLANS

FIRE ALARM SYSTEM RENOVATION PLANS

4th FLOOR LIGHTING PLANS

ELECTRICAL DEMOLITION PLANS ELECTRICAL RENOVATION PANS ENLARGED ELECTRICAL PLANS

1. PROVIDE ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

INTERNATIONAL EXISTING BUILDING CODE 2015 EDITION NFPA 70 - NATIONAL ELECTRICAL CODE 2014 EDITION NFPA 72 - NATIONAL FIRE ALARM CODE ANSI A117.1 - ACCESSIBLE AND USABLE 2009 EDITION

BUILDINGS AND FACILITIES

- 2. PROVIDE NEW RACEWAY AND WIRING TO ALL DEVICES, FIXTURES, AND EQUIPMENT INDICATED ON THE CONTRACT DRAWINGS. THE DRAWINGS INDICATE PARTIAL RACEWAY AND WIRING REQUIREMENTS TO HELP CLARIFY DESIGN INTENT. WHERE RACEWAY AND/OR WIRING IS NOT INDICATED FOR DEVICES, FIXTURES, OR EQUIPMENT THE ARRANGEMENT, GROUPING, AND ROUTING SHALL BE PROVIDED IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE.
- 3. PROVIDE FIXTURES AS SHOWN IN THE LIGHTING FIXTURE SCHEDULE OR PRIOR-APPROVED EQUALS BY COOPER OR LITHONIA.
- 4. ALL FIXTURES AND ELECTRICAL MATERIALS SHALL BE U.L. TESTED & LISTED OR BE TESTED & LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- 5. ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS SHALL BE 2-HOUR FIRESTOPPED - HILTI OR EQUAL.
- 6. RACEWAYS SHALL BE EMT WITH COMPRESSION TYPE FITTINGS UNLESS NOTED OR DETAILED OTHERWISE. PROVIDE FIXTURE WHIPS THAT COMPLY WITH THE NATIONAL ELECTRICAL CODE.
- 7. CIRCUITS SHALL BE TWO #12 AWG COPPER THHN CONDUCTORS WITH ONE #12 AWG COPPER GREEN-INSULATED GROUND WIRE IN 3/4" EMT RACEWAY UNLESS NOTED OTHERWISE ON PLAN.
- 8. JUNCTION BOXES SHALL BE STEEL TYPE WITH SCREW COVER, SIZED AND SUPPORTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE JUNCTION BOXES AS REQUIRED FOR POWER AND CONTROL WIRING RENOVATIONS.
- 9. INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL MEMBERS, OR OTHER SYSTEMS.

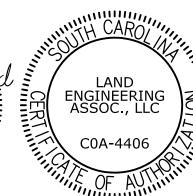
- 10. PROVIDE SEISMIC WIRE SUPPORTS TO SUPPORT ALL NEW LIGHTING FIXTURES ENSURE INSTALLATION COMPLIES WITH ASTM E-580 AND THE INTERNATIONAL BUILDING CODE (ONE WIRE FOR EACH DOWNLIGHT & EXIT SIGN AND TWO WIRES FOR ALL OTHER LIGHTING FIXTURES).
- 11. THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. THE CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL FIXTURES AND SYSTEMS. FURNISH 3 SETS OF OPERATION AND MAINTENANCE MANUALS TO THE OWNER FOR THE INSTALLED LIGHTING SYSTEM.
- 12. THE CONTRACTOR SHALL GUARANTEE THE WORK INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER. SEE SPECIAL LIGHTING WARRANTY REQUIREMENTS IN LIGHTING FIXTURE SCHEDULE.
- 13. CUTTING, DRILLING, AND PATCHING: PROVIDE CHASES, SLOTS, AND OPENINGS IN EXISTING BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS. PERFORM CUTTING, DRILLING, FITTING, AND PATCHING REQUIRED TO:
- A) INSTALL EQUIPMENT, MATERIALS, AND RACEWAYS IN EXISTING STRUCTURES.
- B) REMOVE AND REPLACE DEFECTIVE WORK THAT DOES NOT CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- C) UPON WRITTEN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ARCHITECT/ENGINEER OBSERVATION OF

PROTECT EXISTING STRUCTURES, FURNISHINGS, FINISHES, MECHANICAL SYSTEMS, AND ELECTRICAL SYSTEMS WHILE PERFORMING CUTTING, DRILLING, FITTING, AND PATCHING.

PATCH AND PAINT EXISTING SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS THAT MATCH EXISTING MATERIALS. PATCHING AND PAINTING SHALL BE PERFORMED BY EXPERIENCED INSTALLERS.

	ELECTRICAL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
A • 14a	LIGHTING FIXTURE; TYPE, CIRCUIT NUMBER, AND SWITCHLEG AS INDICATED. SEE THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL SYMBOLS AND TYPES. SINGLE OR DOUBLE FACE EXIT SIGN, CEILING MOUNTED. PROVIDE	H) ₂₀₀	ADDRESSABLE 200 DEGREE HEAT DETECTOR, FIXED TEMPERATURE ONLY. MOUNT DETECTOR ON CEILING. MAINTAIN U.L. LISTED SPACING WHEN DETERMINING EXACT DETECTOR MOUNTING LOCATION. PROVIDE DETECTOR MANUFACTURER'S CUSTOM SURFACE BACKBOX WHERE CONCRETE OR INACCESSIBLE CEILINGS ARE ENCOUNTERED.			
	DIRECTIONAL ARROWS/CHEVRONS AS INDICATED ON PLAN.		ADDRESSABLE DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR WITH			
1€ 18	SINGLE OR DOUBLE FACE EXIT SIGN, WALL OR BACK MOUNTED. PROVIDE DIRECTIONAL CHEVRONS (ARROWS) AS INDICATED ON PLAN.		SAMPLING TUBE AND AN INTEGRAL RELAY TO SHUTDOWN HVAC EQUIPMENT FAN MOTOR. MOUNT TO RETURN-AIR DUCTWORK.			
Os	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE WATTSTOPPER #DT300 WITH #BZ-50 UNIVERSAL VOLTAGE POWER PACK OR EQUAL. PROVIDE CONTROL AND LOW-VOLTAGE WIRING AS RECOMMENDED BY THE SENSOR MANUFACTURER.	⊢ ∳	REMOTE TEST SWITCH AND ALARM INDICATING STATION FOR DUCT-TYPE SMOKE DETECTOR. SURFACE MOUNT STATION AT 60 INCHES ABOVE FINISHED FLOOR.			
Е∑З	EXISTING WALL MOUNTED 3-WAY SWITCH - TO REMAIN IN PLACE UNLES NOTED OTHERWISE ON PLAN.	\Diamond	SAME AS INDICATING STATION DESCRIBED ABOVE EXCEPT THAT STATION SHALL BE MOUNTED IN AN ACOUSTICAL CEILING TILE. PROVIDE A CEILING-GRID SUPPORT BRACKET TO SUPPORT STATION BACKBOX INDEPENDENT OF CEILING TILE.			
Se Sr	EXISTING WALL MOUNTED SINGLE-POLE SWITCH - TO REMAIN IN PLACE. EXISTING WALL MOUNTED SINGLE-POLE SWITCH - TO REMOVE.	МІМ	FIRE ALARM SYSTEM ADDRESSABLE MONITOR INTERFACE MODULE WITH CLASS "B" TYPE MONITOR WIRING IN ACCORDANCE WITH NFPA 72. MOUNT MODULE IN A STEEL NEMA-1 ENCLOSURE.			
	EXISTING 120/208 VOLT PANELBOARD - TO REMAIN IN PLACE.	RIM	FIRE ALARM SYSTEM ADDRESSABLE RELAY INTERFACE CONTROL MODULE. MOUNT MODULE IN A STEEL NEMA-1 ENCLOSURE.			
9	ELECTRICAL CONNECTIONS TO A MOTOR OR TO MOTOR DRIVEN EQUIPMENT.	A	AUDIBLE (SPEAKER) NOTIFICATION APPLIANCE. SEMI-FLUSH MOUNT			
L sw	SAFETY DISCONNECT SWITCH - TYPE AND RATINGS AS INDICATED ON PLAN. COORDINATE MOUNTING LOCATION WITH MECHANICAL CONTRACTOR TO ENSURE PROPER WORKING CLEARANCES PER THE NEC.		DETECTOR IN CEILING. PROVIDE A CEILING-GRID SUPPORT BRACKET TO SUPPORT DETECTOR BACKBOX INDEPENDENT OF CEILING TILE. VISIBLE (STROBE) NOTIFICATION APPLIANCE. SEMI-FLUSH MOUNT			
Ю	STEEL JUNCTION BOX, WALL MOUNTED.	V 15cd	APPLIANCE IN CEILING. PROVIDE CEILING-GRID SUPPORT BRACKET TO SUPPORT APPLIANCE BACKBOX. PROVIDE STROBE MANUFACTURER'S			
0	STEEL JUNCTION BOX, UNIT OR CEILING MOUNTED UNLESS NOTED OTHERWISE.		CUSTOM SURFACE BACKBOX WHERE STROBE IS MOUNTED ON INACCESSIBLE CEILINGS. PROVIDE STROBE WITH CANDELA RATING NOTED ON PLAN.			
€	DUPLEX RECPTACLE, NEMA 5-20R. FLUSH MOUNT DEVICE IN WALL AT 18"AFF UNLESS NOTED OTHERWISE.	^A / _V 15cd	COMBINATION AUDIBLE/VISIBLE (SPEAKER & STROBE) NOTIFICATION APPLIANCE. SEMI-FLUSH MOUNT APPLIANCE IN ACCESSIBLE CEILINGS.			
∳ R	EXISTING ELECTRICAL CONNECTION TO A MOTOR OR TO MOTOR-DRIVEN EQUIPMENT - DISCONNECT AND REMOVE EXISTING WIRING AND RACEWAY UNLESS NOTED OTHERWISE.		PROVIDE CEILING-GRID SUPPORT BRACKET TO SUPPORT APPLIANCE BACKBOX INDEPENDENT OF ACOUSTICAL CEILING TILE. PROVIDE APPLIANCE MANUFACTURER'S CUSTOM SURFACE BACKBOX WHERE APPLIANCE IS MOUNTED ON INACCESSIBLE CEILINGS. PROVIDE APPLIANCE WITH STROBE CANDELA RATING NOTED ON PLAN.			
E	EXISTING WALL MOUNTED 120-VOLT DUPLEX RECEPTACLE - TO REMAIN IN PLACE. MAINTAIN INTEGRITY OF EXISTING CIRCUIT.	 Ed	COMBINATION AUDIBLE/VISIBLE (SPEAKER & STROBE) NOTIFICATION			
R⊕	EXISTING WALL MOUNTED 120-VOLT DUPLEX RECEPTACLE -REMOVE.		APPLIANCE. SEMI-FLUSH MOUNT APPLIANCE IN WALL WITH BOTTOM OF APPLIANCE A MINIMUM OF 80 INCHES ABOVE FINISHED FLOOR AND/OR TOP OF APPLIANCE A MAXIMUM OF 96 INCHES ABOVE FINISHED FLOOR.			
R	EXISTING WALL MOUNTED OUTLET - TO DEMAIN IN DIAGE		PROVIDE APPLIANCE MANUFACTURER'S CUSTOM SURFACE BACKBOX WHERE APPLIANCE IS MOUNTED ON INACCESSIBLE WALL. PROVIDE			
F∭E	EXISTING WALL MOUNTED OUTLET - TO REMAIN IN PLACE.		APPLIANCE WITH STROBE CANDELA RATING NOTED ON PLAN. EXISTING CONTROL PANEL - TYPE AS NOTED ON PLAN.			
	SURFACE MOUNTED CONTROL PANEL, TYPE AS NOTED ON PLAN.	FR	EXISTING FIRE ALARM PULL STATION - REMOVE.			
	FLUSH MOUNTED CONTROL PANEL, TYPE AS NOTED ON PLAN.	S _R	EXISTING SMOKE DETECTOR - REMOVE.			
	RJ-31X COMMUNICATIONS PHONE JACK. MOUNT IN FIRE ALARM CABINET. FIRE ALARM MANUAL PULL STATION. SURFACE MOUNT STATION ON WALL	⟨T⟩ _E	EXISTING SPRINKLER VALVE TAMPER SUPERVISORY SWITCH - TO REMAIN IN PLACE AND BE MONITORED BY THE NEW FIRE ALARM SYSTEM.			
	WITH TOP OF STATION AT 48 INCHES ABOVE FINISHED FLOOR. PROVIDE STATION MANUFACTURER'S CUSTOM SURFACE BACKBOX TO MOUNT STATION.	⟨F⟩ _E	EXISTING SPRINKLER FLOW ALARM SWITCH - TO REMAIN IN PLACE AND BE MONITORED BY THE NEW FIRE ALARM SYSTEM.			
S	ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR. SEMI-FLUSH MOUNT DETECTOR IN CEILING. PROVIDE A CEILING-GRID SUPPORT BRACKET TO SUPPORT DETECTOR BACKBOX INDEPENDENT OF CEILING TILE WHERE	P _E	EXISTING DRY SPRINKLER PRESSURE ALARM SWITCH - TO REMAIN IN PLACE AND BE MONITORED BY THE NEW FIRE ALARM SYSTEM.			
	APPLICABLE. MAINTAIN U.L. LISTED SPACING WHEN DETERMINING EXACT DETECTOR MOUNTING LOCATION. PROVIDE DETECTOR MANUFACTURER'S	⟨L⟩ _E	EXISTING DRY SPRINKLERLOW AIR SUPERVISORY SWITCH - TO REMAIN IN PLACE AND BE MONITORED BY THE NEW FIRE ALARM SYSTEM.			
	CUSTOM SURFACE BACKBOX WHERE CONCRETE OR INACCESSIBLE CEILINGS ARE ENCOUNTERED.	F⊲r	EXISTING COBINATION HORN/STROBE NOTIFICATION DEVICE - REMOVE.			
H	ADDRESSABLE 135 DEGREE HEAT DETECTOR, FIXED TEMPERATURE ONLY. SEMI-FLUSH MOUNT DETECTOR IN CEILING. PROVIDE A CEILING-GRID SUPPORT BRACKET TO SUPPORT DETECTOR BACKBOX INDEPENDENT OF CEILING TILE WHERE APPLICABLE. MAINTAIN U.L. LISTED SPACING WHEN DETERMINING EXACT DETECTOR MOUNTING LOCATION. PROVIDE DETECTOR MANUFACTURER'S CUSTOM SURFACE BACKBOX WHERE CONCRETE OR INACCESSIBLE CEILINGS ARE ENCOUNTERED.	•	VOICE/DATA COMMUNICATIONS OUTLET. PROVIDE A 4" SQUARE STEEL BOX WITH SINGLE-GANG PLASTER RING MOUNTED IN WALL AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE A ONE INCH EMT RACEWAY WITH PULL STRING CONCEALED IN WALL FROM OUTLET TO CEILING SPACE ABOVE ACOUSTICAL DROP CEILING. PROVIDE A FIBER BUSHING ON BOTH ENDS OF RACEWAY.			





GENERAL NOTES, LEGEND, AND **SCHEDULES**

UNIVERSITY OF

SOUTH CAROLINA

16 JUNE 2017

Project Number

Revisions:

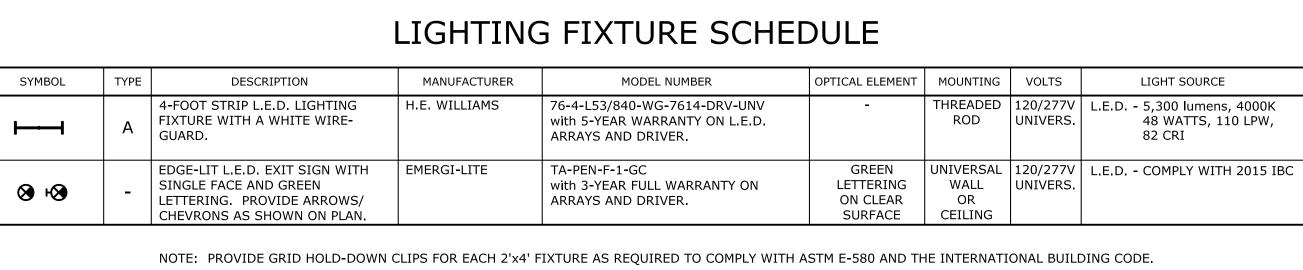
ARCHITECTURE

PLANNING

CONSTRUCTION DOCUMENTS

USC-2016-16

262 SANDHURST ROAD, SUITE 101 COLUMBIA, SOUTH CAROLINA (803) 528-1437 Joe.Land.LEA@sc.rr.com



FIRE ALARM SYSTEM SINGLE-LINE DIAGRAM NOT TO SCALE

SIINGLE-LINE DIAGRAM NOTES

- FURNISH SHOP DRAWINGS FROM THE FIRE ALARM MANUFACTURER INDICATING ALL WIRING FOR DETECTION AND NOTIFICATION CIRCUITS. INCLUDE EQUIPMENT TYPES AND LOCATIONS, RACEWAY SIZES, NUMBER AND TYPES OF WIRES/CABLES, DIAMETERS OF CABLES/WIRES AND COLOR CODING FOR EACH CIRCUIT TYPE. SHOP DRAWINGS SHALL BE
- 2. ALL STROBES SHALL BE SYNCHRONIZED. ALL AUDIBLE NOTIFICATION DEVICES SHALL BE
- 3. ALL POWER SUPPLIES AND AMPLIFIERS SHALL BE LOCATED IN THE MAIN FIRE CONTROL PANEL CABINETS. PROVIDE BATTERY CALCULATIONS TO VERIFY THE SECONDARY POWER
- 4. PROVIDE THREE SETS OF OPERATION AND MAINTENANCE MANUALS FOR THE FIRE ALARM SYSTEM. PROVIDE A 3-RING BINDER FOR EACH SET.
- PROVIDE A COMPLETE FIRE ALARM TEST IN ACCORDANCE WITH NFPA 72. ALL SMOKE DETECTORS SHALL BE TESTED WITH AN APPROVED AERASOL SMOKE PRODUCT. PROVIDE A WRITTEN RECORD OF THE INSPECTIONS, TESTS, AND DETAILED TEST RESULTS IN THE FORM OF A TEST LOG. SUBMIT LOG UPON THE SATISFACTORY COMPLETION OF TESTS.
- 6. PROVIDE 8 HOURS OF TRAINING FOR TROUBLE-SHOOTING AND MAINTENANCE OF THE
- PROVIDE FOR THREE SITE VISITS BY A FIRE ALARM SYSTEM TECHNICIAN AFTER PROJECT COMPLETION TO REPROGRAM THE FIRE ALARM SYSTEM AND/OR ADJUST SPEAKER TAP SETTINGS AS REQUESTED BY THE OWNER.
- WITH SCREW COVERS.
- BOXES SHALL INCLUDE A BACK-PLANE FOR MOUNTING TERMINAL BLOCKS.
- SPLICE CONNECTIONS (CABLE SHIELDS SHALL ALSO BE SPLICED USING TERMINAL

PROVIDED ON 24" X 36" (D-SIZE) PRINTS.

SHALL BE SYNCHRONIZED.

SUPPLY HAS ADEQUATE CAPACITY IN ACCORDANCE WITH NFPA 72.

FIRE ALARM SYSTEM. SCHEDULE TRAINING WITH OWNER.

8. FIRE ALARM SYSTEM RISER JUNCTION BOXES SHALL BE 6"h x 6"w x 4"d (MINIMUM) STEEL

PROVIDE TERMINAL BLOCKS AS REQUIRED TO SPLICE ALL CABLES/WIRES REQUIRING

PAINT BOX COVERS RED AND PROVIDE A LABEL ON COVERS DEPICTING MARK NUMBER.



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ARCHITECTURE INTERIORS PLANNING

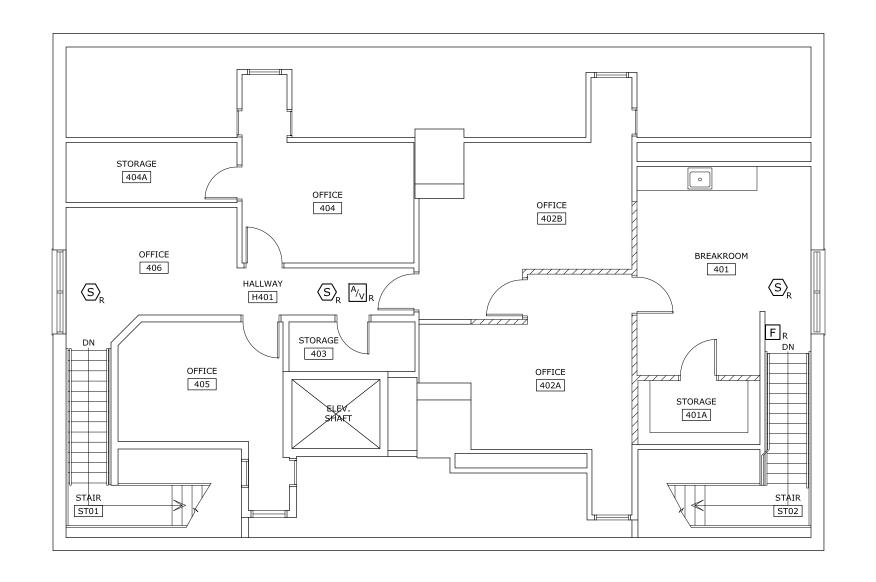


RENOVATION



Proje	ct Numbe	r:	161	0	
Date:	1	6 Jl	JNE	201	7
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FIRE ALARM SINGLE-LINE DIAGRAM



DEMOLITION NOTES

TURNOVER ALL EXISTING FIRE ALARM DETECTION DEVICES, NOTIFICATION APPLIANCES, AND CONTROL PANELS TO TODD GRIFFIN,

WATSON TATE SAVORY

ARCHITECTURE

RENOVATION

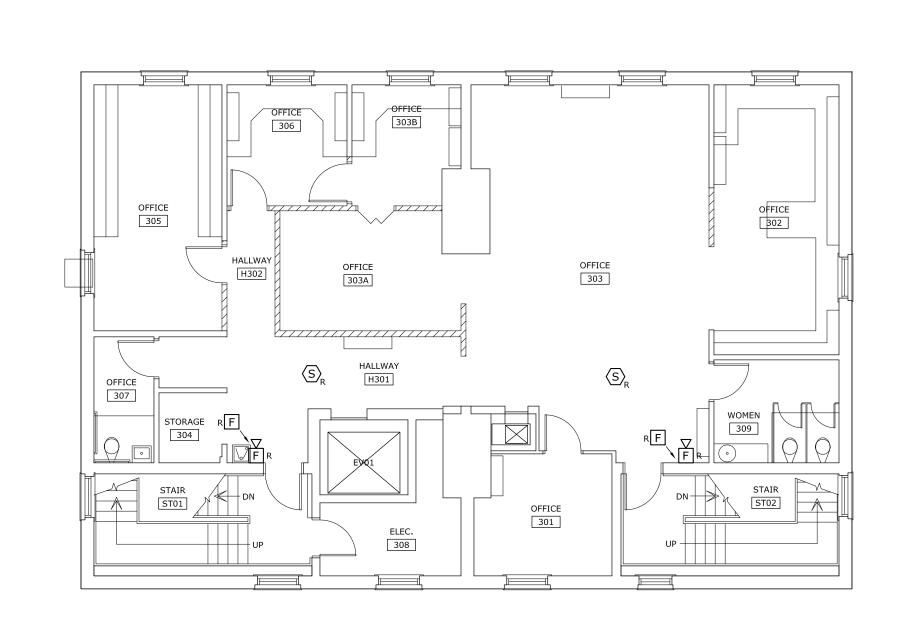
UNIVERSITY OF SOUTH CAROLINA

Project Number: 16 JUNE 2017 Revisions:

> FIRE ALARM DEMOLITION **PLANS**

CONSTRUCTION DOCUMENTS

4th FLOOR FIRE ALARM DEMOLITION PLAN SCALE: 1/8" = 1'-0"



3rd FLOOR FIRE ALARM DEMOLITION PLAN SCALE: 1/8" = 1'-0"

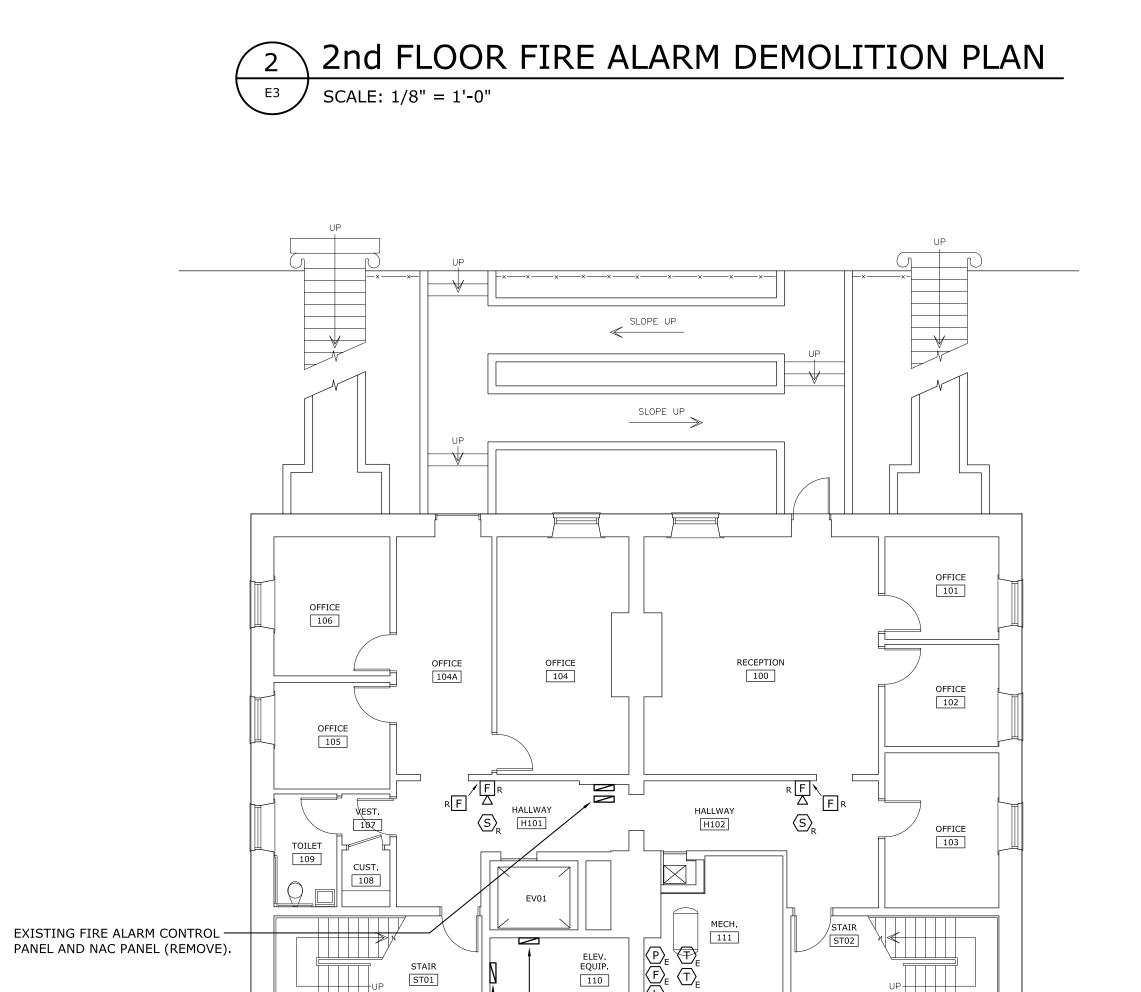




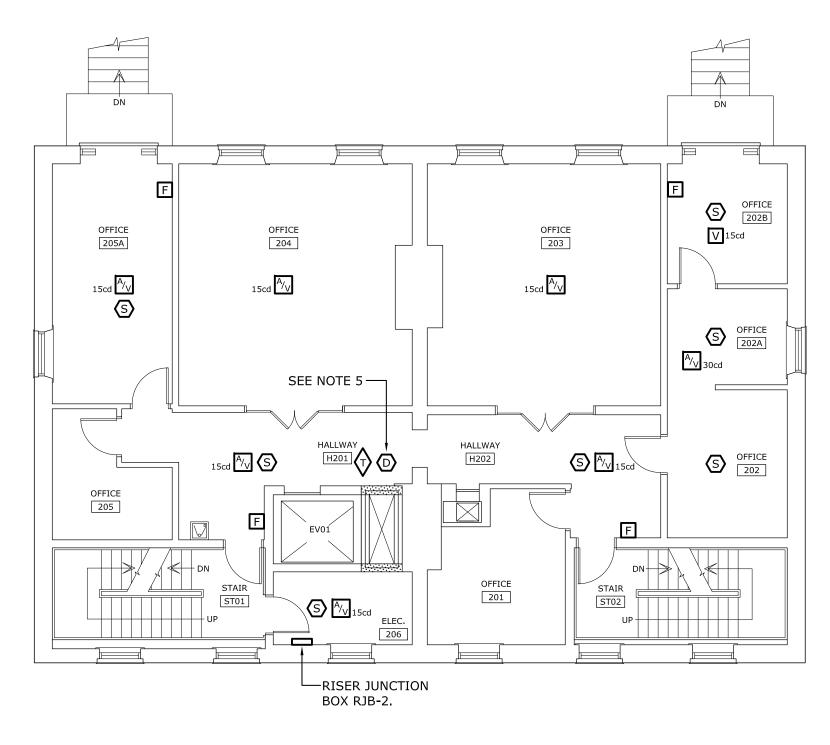
USC-2016-16

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EXISTING FIRE ALARM DACT — REPORTING PANEL (REMOVE). - EXISTING ELEVATOR CONTROLLER WITH RECALL SYSTEM (TO REMAIN). 1st FLOOR FIRE ALARM DEMOLITION PLAN SCALE: 1/8" = 1'-0"



2nd FLOOR FIRE ALARM RENOVATION PLAN SCALE: 1/8" = 1'-0"

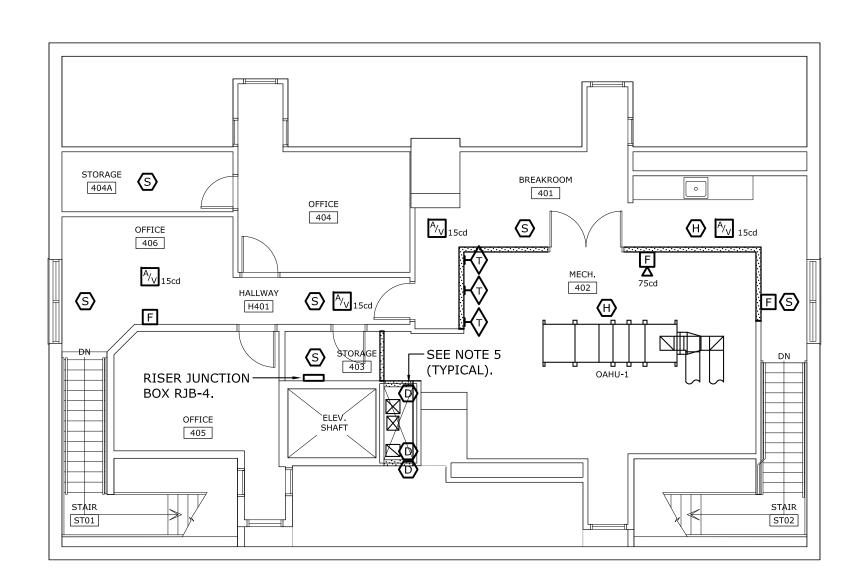
V OFFICE 106 OFFICE 104 OFFICE 104A RECEPTION FIRE ALARM REMOTE 100 ANNUNCIATOR PANEL (FLUSH MOUNT IN EXISTING WALL). $\langle S \rangle A_{V_{15cd}}$ OFFICE 102 OFFICE 105 FIRE ALARM —— CONTROL PANEL AND NAC PANEL SEE NOTE 3. 103 ELEVATOR EQUIPMENT ROOM (SEE NOTES 1 & 2) MIM P_E T_E H₂₀₀
MIM L_E F RIM RECALL 1

RIM RECALL 2

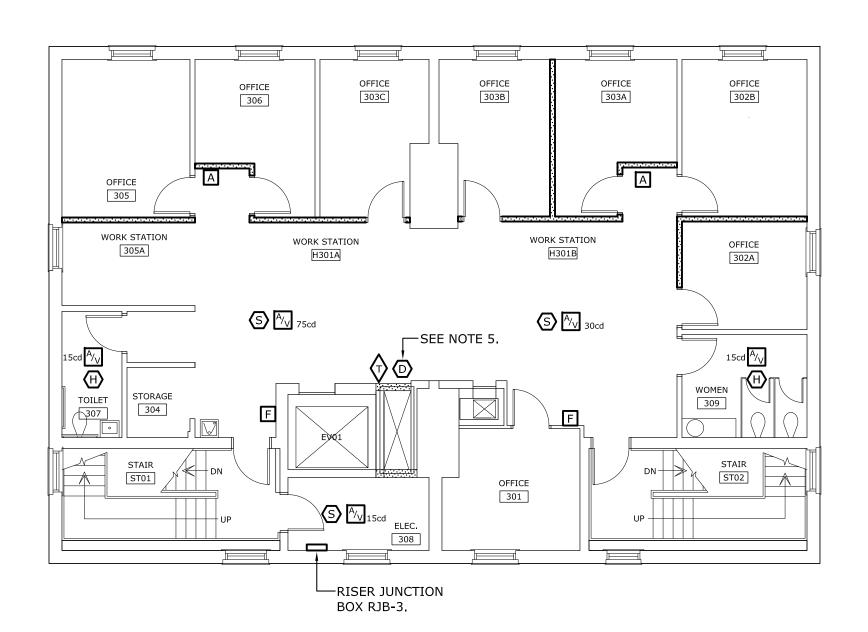
RIM HAT/LIGHT

RIM SHUNT TRIP

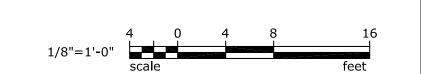
> 1st FLOOR FIRE ALARM RENOVATION PLAN SCALE: 1/8" = 1'-0"



4th FLOOR FIRE ALARM RENOVATION PLAN



3rd FLOOR FIRE ALARM RENOVATION PLAN SCALE: 1/8" = 1'-0"





- FEATURES, WITH THE 1st FLOOR DESIGNATED AS THE PRIMARY FLOOR. PROVIDE PROGRAMMING FOR ELEVATOR LOBBY SMOKE DETECTORS, MACHINE ROOM SMOKE DETECTOR, AND RECALL RELAYS IN ACCORDANCE WITH ANSI 17.1 AND LLR REQUIREMENTS.
- EXISTING ELEVATOR AND ASSOCIATED CONTROLLER DO NOT CURRENTLY HAVE PROVISIONS FOR CONNECTION OF HAT/LIGHT INDICATOR IN ELEVATOR CAB AND SHUNT-TRIP FOR POWER DISCONNECT. THESE FEATURES WILL BE ADDED UNDER A FUTURE PROJECT. PROVIDE PROGRAMMING FOR MACHINE ROOM HEAT DETECTOR AND ELEVATOR RELAYS IN ACCORDANCE WITH ANSI 17.1 AND LLR REQUIREMENTS (EVEN THOUGH THE DEVICES WILL NOT BE EMPLOYED AT THIS TIME).
- TO NEW FIRE ALARM AND NAC PANELS. PANELBOARD "B" IS LOCATED ON THE 2nd FLOOR IN ROOM 206.
- SYSTEM RACEWAYS WHERE PRACTICAL. WHERE IT IS NOT POSSIBLE TO CONCEAL NEW RACEWAYS ABOVE EXISTING HARD CEILINGS, PROVIDE WIREMOLD #500 AND/OR #700 SURFACE METAL RACEWAYS, BOXES, AND FITTINGS (OR EQUAL) TO ROUTE DETECTION AND NOTIFICATION
- DETECTORS TO CONTROL 120-VOLT FIRE-SMOKE DAMPERS.

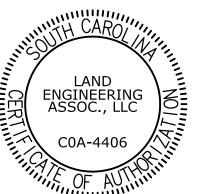
RENOVATION NOTES

EXISTING ELEVATOR AND ASSOCIATED CONTROLLER HAS RECALL

RECONNECT EXISTING FIRE ALARM 120-VOLT CIRCUITS B-13 AND B-15

. 4th FLOOR RACEWAYS: RE-USE EXISTING CONCEALED FIRE ALARM

. DUCT TYPE SMOKE DETECTORS: INSTALL/WIRE DUCT TYPE SMOKE



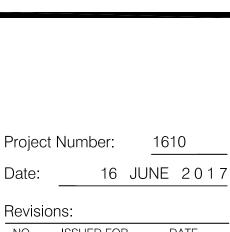


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WATSON TATE SAVORY

RENOVATION

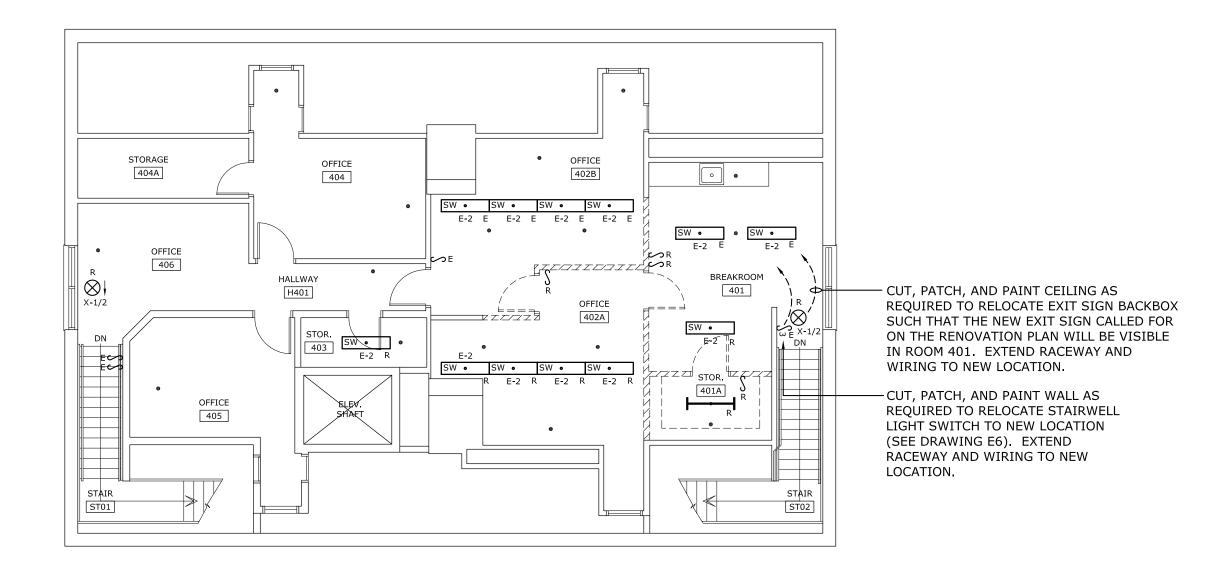


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Revisions:

FIRE ALARM RENOVATION **PLANS**

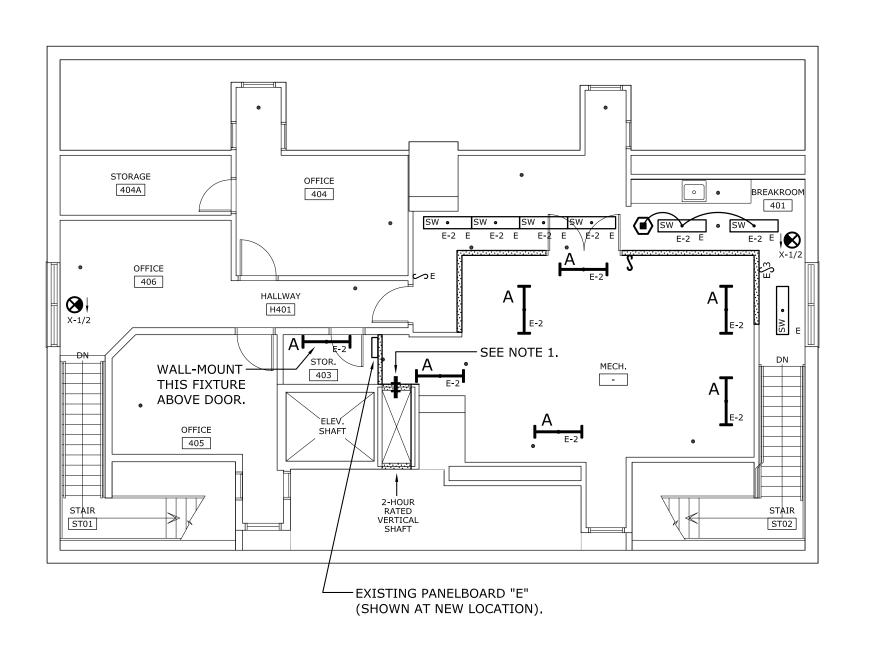
- 1. CIRCUIT NUMBERS SHOWN ON PLAN WERE COPIED FROM DRAWINGS OF A 1984 RENOVATION PROJECT FOR THE BUILDING FIELD VERIFY SOURCE OF CIRCUITS PRIOR TO WORKING ON EXISTING CIRCUIT
- 2. WHERE LIGHTING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS/CABLES THAT SERVE THEM BACK TO THEIR ORIGIN. WHERE EXISTING RACEWAYS WILL BE CONCEALED BY NEW CONSTRUCTION, THEY MAY BE ABANDONED IN



1 4th FLOOR LIGHTING DEMOLITION PLAN

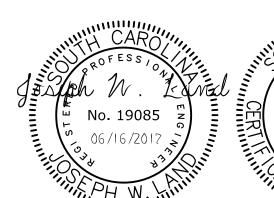
 \downarrow E5 \int SCALE: 1/8" = 1'-0"

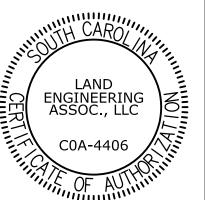
EXISTING FIXTURE SCHEDULE		
SYMBOL	DESCRIPTION	
SW • R	SIZE: 1' X 4' MOUNTING: SURFACE MOUNTED TYPE: WRAP REMOVE AND DISPOSE OF.	
SW • E	SIZE: 1' X 4' MOUNTING: SURFACE MOUNTED TYPE: WRAP EXISTING TO REMAIN IN PLACE.	
├ R	SIZE: 4' MOUNTING: SURFACE MOUNTED TYPE: FLUORESCENT STRIP REMOVE AND DISPOSE OF.	
⊗R	SIZE: N/A MOUNTING: CEILING OR WALL TYPE: EXIT SIGN REMOVE AND DISPOSE OF.	
•	CEILING MOUNTED SPRINKLER HEAD	



2 4th FLOOR LIGHTING RENOVATION PLAN

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



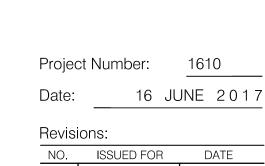




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VISON TATE SAVORY

LIEBER COLLEGE HVAC RENOVATIO

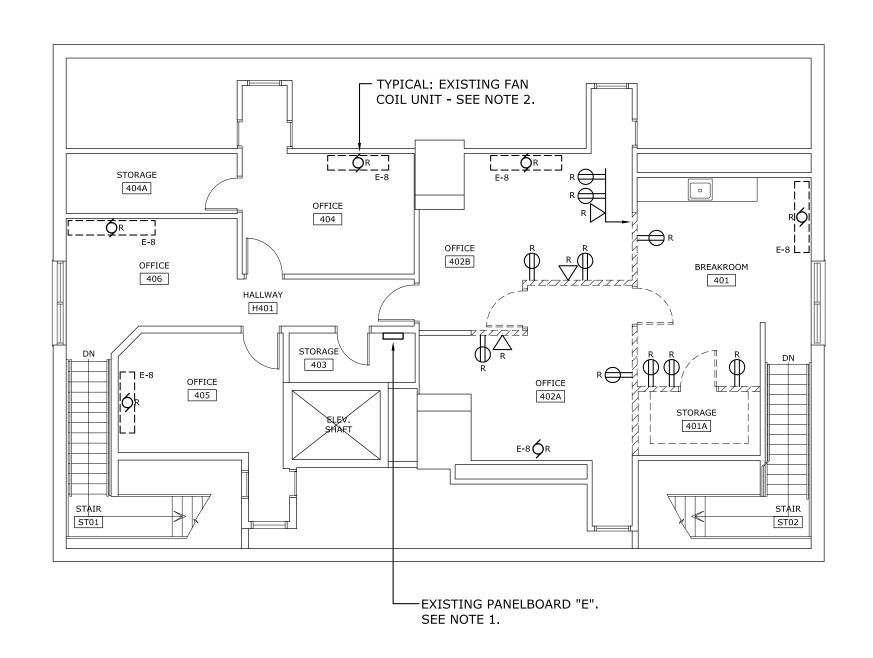


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4th FLOOR

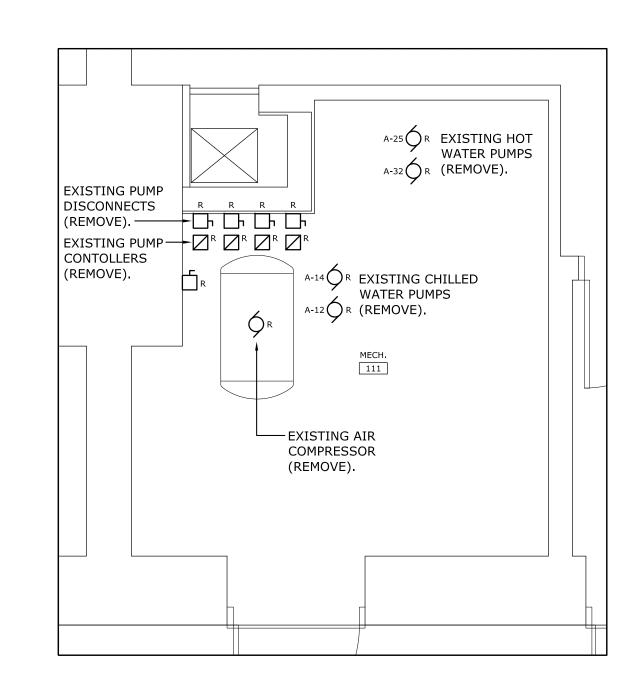
LIGHTING PLANS

E5

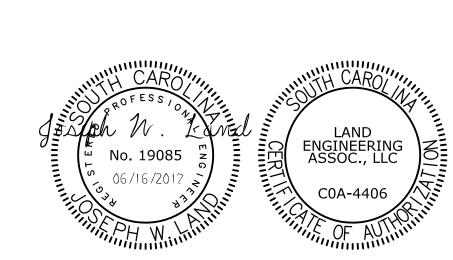


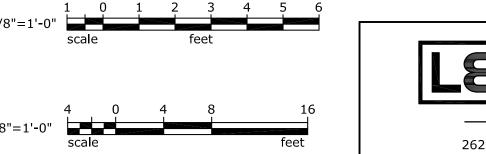
DEMOLITION NOTES

- EXISTING PANELBOARD "E": EXISTING PANEL IS A FEDERAL PACIFIC TYPE "NQLP" MAIN-LUGS-ONLY PANELBOARD RATED 120/208 VOLTS, 100 AMPS, 3-PHASE, 4-WIRE WITH 24 CIRCUIT BREAKER SPACES. RELOCATE EXISTING PANELBOARD "E" AND ALL ASSOCIATED RACEWAYS AND WIRING TO NEW LOCATION SHOWN ON THE RENOVATION PLAN. PROVIDE JUNCTION BOXES, RACEWAYS & CONDUCTORS AS REQUIRED TO EXTEND EXISTING 100-AMP FEEDER AND ALL BRANCH CIRCUIT RACEWAYS & CONDUCTORS TO NEW PANELBOARD LOCATION.
- EXSTING FAN COIL UNITS: DISCONNECT EXISTING 120-VOLT POWER CIRCUIT SERVING FAN COIL UNITS. CIRCUITS SHALL BE RECONNECTED TO REPLACEMENT FAN COIL UNITS AS A PART OF THIS PROJECT.
- CIRCUIT NUMBERS SHOWN ON PLAN WERE COPIED FROM DRAWINGS OF A 1984 RENOVATION PROJECT FOR THE BUILDING FIELD VERIFY SOURCE OF CIRCUITS PRIOR TO WORKING ON EXISTING CIRCUIT WIRING.
- RECEPTACLES REFERENCED TO THIS NOTE ARE MOUNTED APPROXIMATELY 42 INCHES ABOVE FINISHED FLOOR. REMOVE EXISTING RECEPTACLES FROM BACKBOX. TRENCH WALL AND EXTEND A 3/4" EMT RACEWAY FROM THE BOTTOM OF EACH EXISTING BOX, DOWN TO A NEW RECEPTACLE BOX AT 18 INCHES ABOVE FINISHED FLOOR. PROVIDE A 20 AMP RATED DUPLEX RECEPTACLE AND IVORY WALLPLATE IN NEW BOX. PROVIDE NEW CIRCUIT WIRING TO NEW RECEPTACLE, SPLICED IN THE EXISTING RECEPTACLE BOX. PROVIDE A BLANK WALLPLATE OVER EXISTING RECEPTACLE BOX.











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ARCHITECTURE

PLANNING

OLLEGE HVAC RENOVATION
F SOUTH CAROLINA



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BLECTRICAL

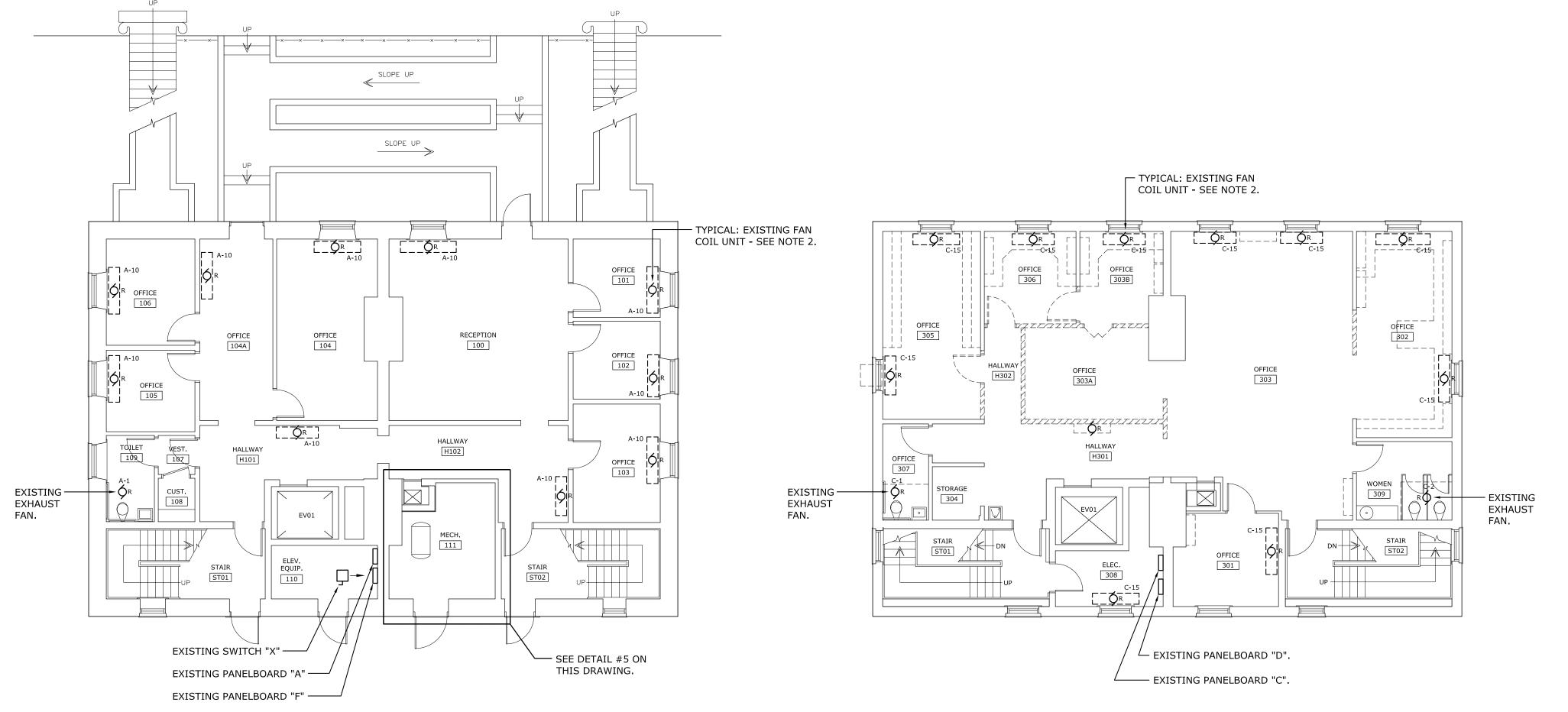
PLANS

DEMOLITION

CONSTRUCTION DOCUMENTS



4 4th FLOOR ELECTRICAL DEMOLITION PLAN E6 SCALE: 1/8" = 1'-0"

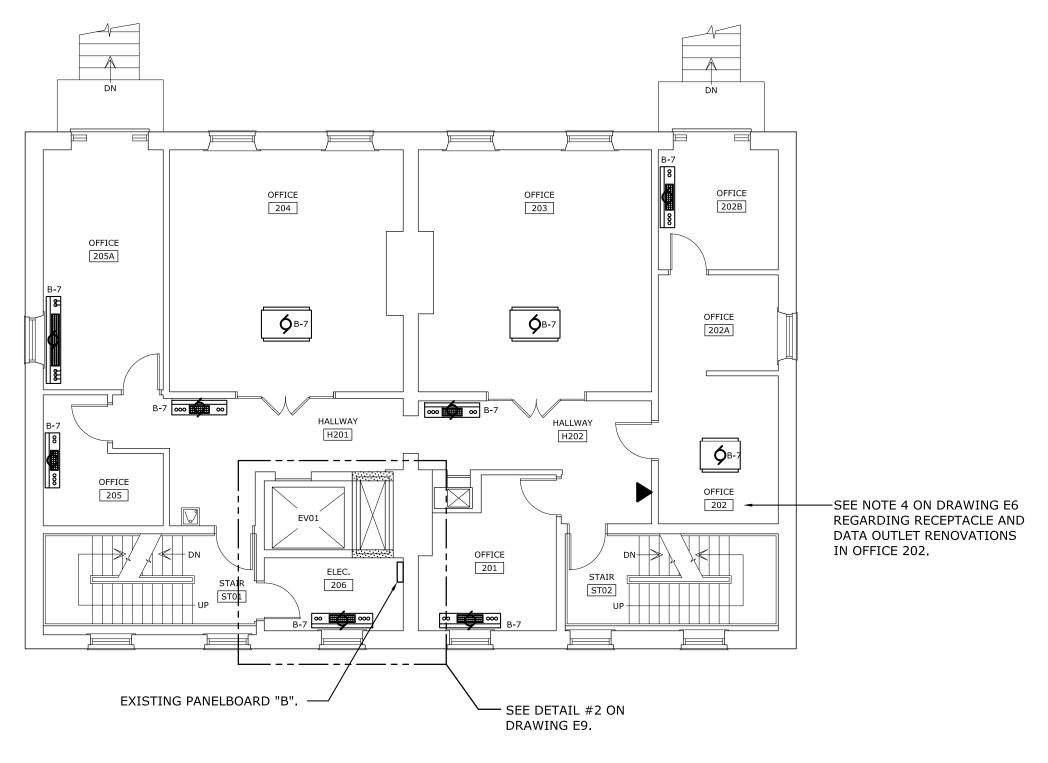


1 1st FLOOR ELECTRICAL DEMOLITION PLAN

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

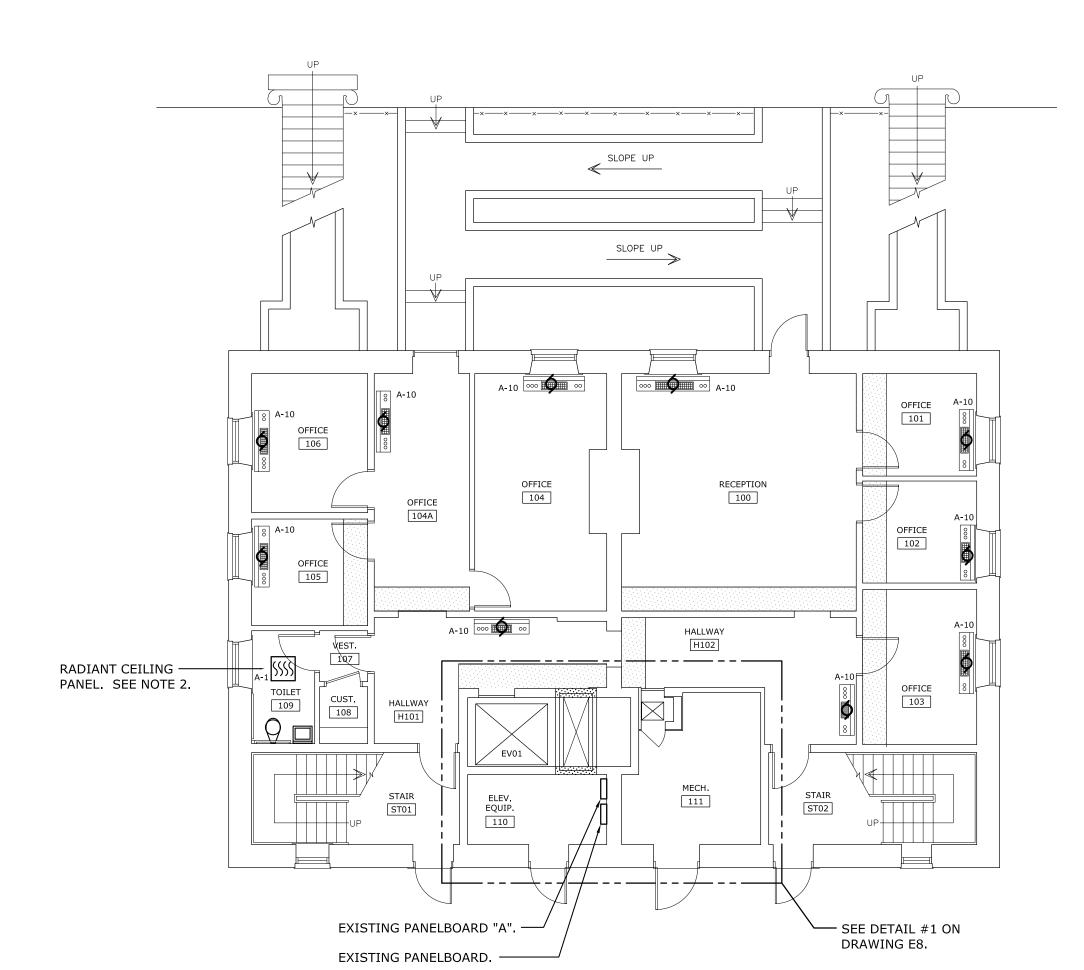
3 3rd FLOOR ELECTRICAL DEMOLITION PLAN

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

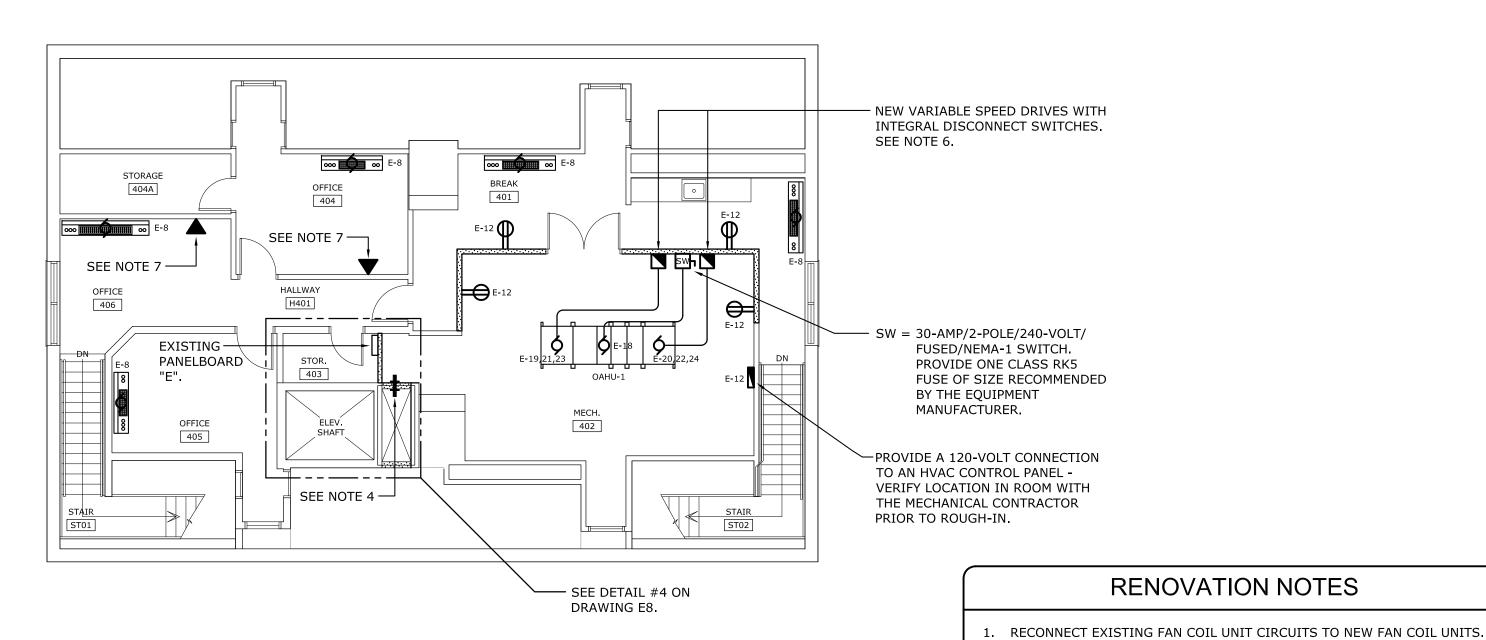


2nd FLOOR ELECTRICAL RENOVATION PLAN

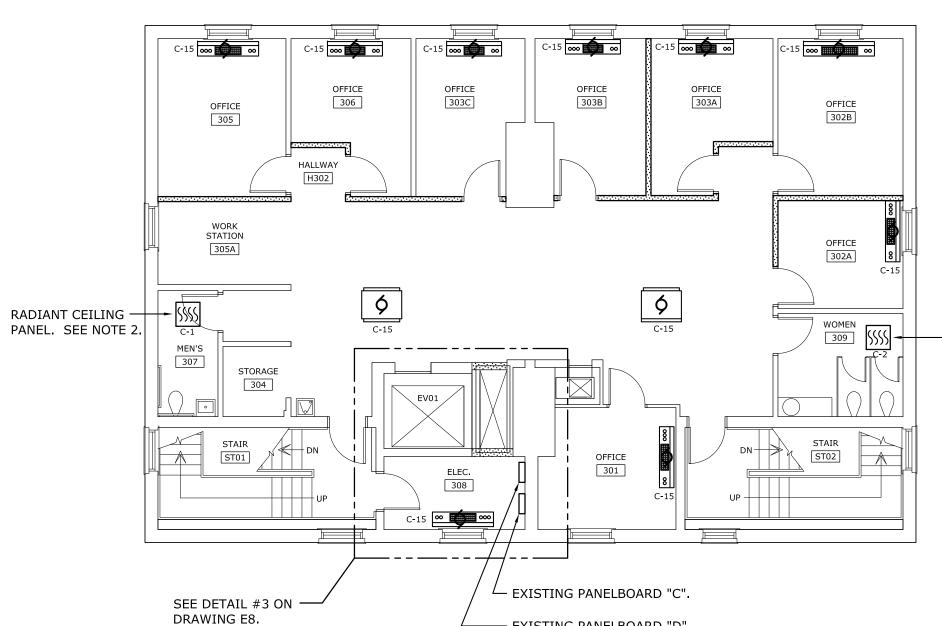
SCALE: 1/8" = 1'-0"



1st FLOOR ELECTRICAL RENOVATION PLAN SCALE: 1/8" = 1'-0"

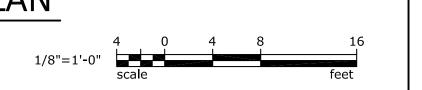


4th FLOOR ELECTRICAL RENOVATION PLAN SCALE: 1/8" = 1'-0"



3rd FLOOR ELECTRICAL RENOVATION PLAN

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



ARCHITECTURE PLANNING



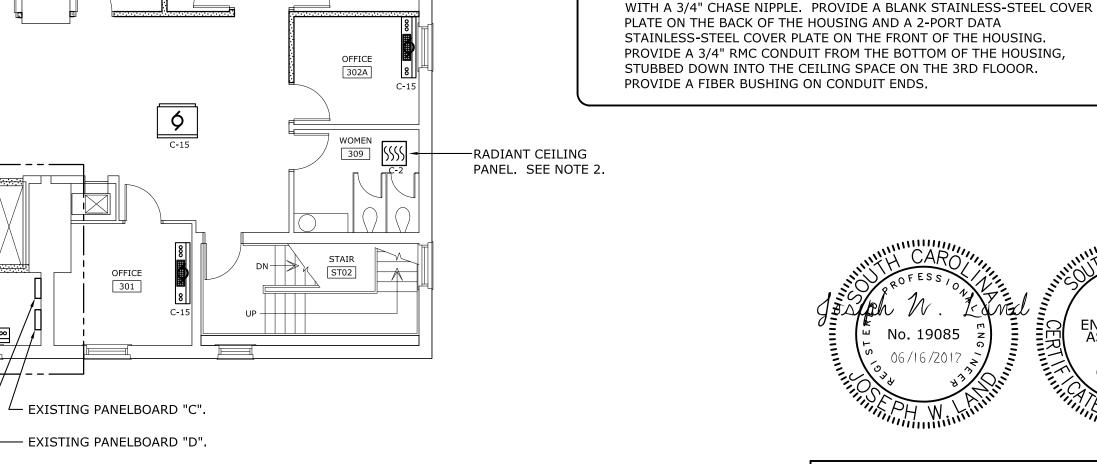
RENOVATION



Project Number Revisions:

> **ELECTRICAL** RENOVATION **PLANS**

CONSTRUCTION DOCUMENTS



USC-2016-16 262 SANDHURST ROAD, SUITE 101 COLUMBIA, SOUTH CAROLINA

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EXTEND RACEWAYS AND CONDUCTORS AS REQUIRED TO RECONNECT

RADIANT CEILING PANELS: PANELS IN RESTROOMS REFERENCED TO

COORDINATE MOUNTING LOCATION OF DISCONNECT SWITCH AND VARIABLE SPEED DRIVES TO ENSURE PROPER WORKING CLEARANCES IN

EXISTING PANELBOARD "E": EXISTING PANEL IS A FEDERAL PACIFIC

ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

PATHWAY DEVICE WITH THE MECHANICAL CONTRACTOR.

THIS NOTE SHALL BE WIRED THROUGH A LINE-VOLTAGE THERMOSTAT (THERMOSTAT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL

ROOM 402: PROVIDE ONE EZ-PATH #33 SERIES 3"x3"x10.5" FIRE-RATED PATHWAY DEVICE (OR EQUAL) AT THE 2-HOUR RATED VERTICAL SHAFT. THIS PATHWAY WILL BE UTILIZED BY USC INFORMATION TECHNOLOGY STAFF TO ROUTE DATA OUTLET COMMUNICATIONS CABLES DOWN TO THE SECOND FLOOR ELECTRICAL ROOM. COORDINATE INSTALLATION OF

TYPE "NQLP" MAIN-LUGS-ONLY PANELBOARD RATED 120/208 VOLTS, 100

AMPS, 3-PHASE, 4-WIRE. PROVIDE ONE SINGLE-POLE 20-AMP RATED CIRCUIT BREAKER IN SPACE 12, IN SPACE 16, AND IN SPACE 18 TO SERVE NEW RECEPTACLE, FIRE-SMOKE DAMPER, AND HVAC LOADS. PROVIDE ONE 3-POLE 15-AMP RATED CIRCUIT BREAKER IN SPACES 19,21,23 AND IN SPACES 20,22,24 TO SERVE HVAC LOADS ASSOCIATED

5. VARIABLE FREQUENCY DRIVES WILL BE FURNISHED BY THE MECHANICAL CONTRACTOR TO SERVE TWO OF THE MOTORS ASSOCIATED WITH "OAHU-1". THE ELECTRICAL CONTRACTOR SHALL MOUNT THE DRIVES IN

A CODE COMPLIANT LOCATION AND PROVIDE RACEWAY AND POWER

RACEWAY. ALL CONTROL WIRING WILL BE PROVIDED BY THE

FOR DATA OUTLETS REFERENCED TO THIS NOTE, PROVIDE A

NOTE: IT IS NOT KNOWN WHETHER THE HVAC UNIT WILL HAVE A

SINGLE-POINT CONNECTION, OR A 3-POINT CONNECTION AS SHOWN ON

PLAN. INCLUDE MATERIAL AND LABOR IN THE BASE BID AS REQUIRED TO ACCOMMODATE A SINGLE-POINT CONNECTION FOR THE HVAC UNIT.

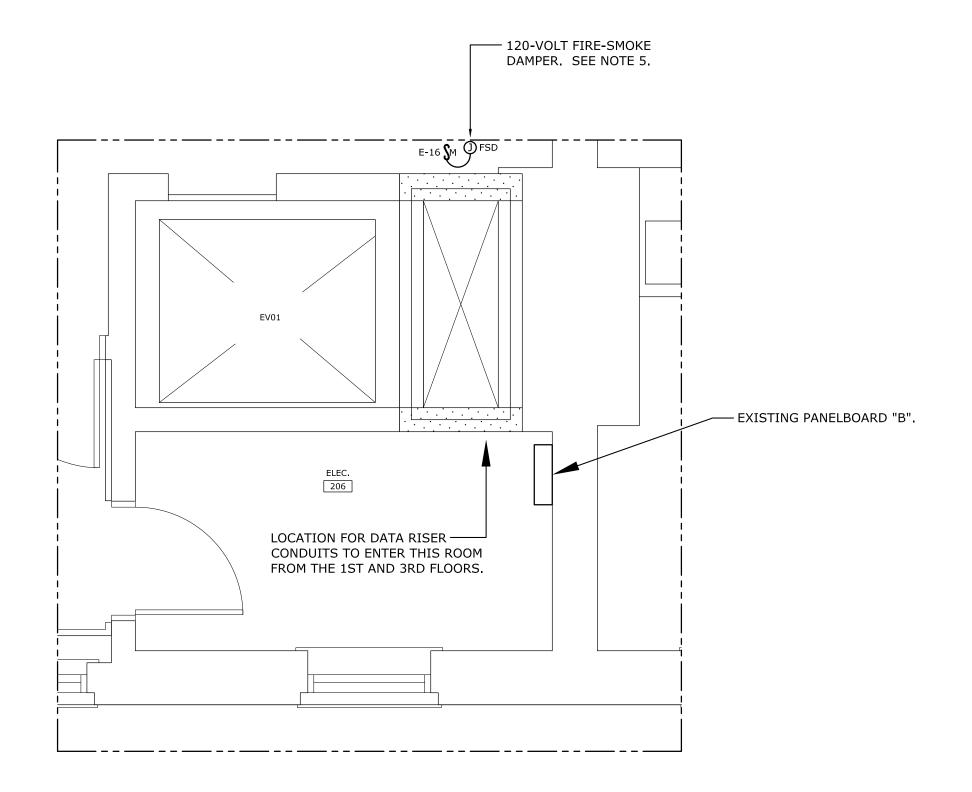
HUBBELL-RACO #6300 (OR EQUAL) SERVICE PEDESTAL FRAM HOUSING

MECHANICAL CONTRACTOR.

WIRING AS REQUIRED TO SERVE EACH FAN MOTOR FROM PANELBOARD "E", THROUGH A DRIVE, THEN TO THE MOTOR. WIRING FOR EACH MOTOR SHALL BE THREE #12 AWG COPPER THHN CONDUCTORS WITH ONE #12 AWG COPPER GREEN-INSULATED GROUND WIRE IN 3/4" EMT & FMC

CIRCUITS TO NEW UNITS.

CONTRACTOR).



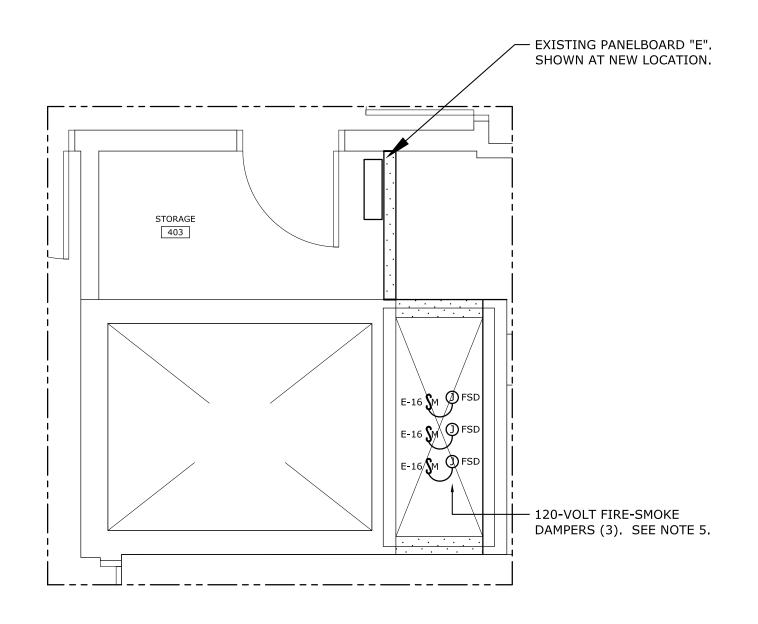
2 2nd FLOOR ELEC. ROOM RENOVATION PLAN SCALE: 3/8" = 1'-0"

— 120-VOLT FIRE-SMOKE DAMPER. SEE NOTE 5. HALLWAY H101 E-16 M FSD A-25,27,29 NEW HOT WATER PUMPS
A-25,27,29 SEE NOTE 3. - SEE NOTE 7 A-30,32,24 NEW CHILLED WATER PUMPS. A-30,32,24 2 SEE NOTE 2. CONDUIT ENTRY INTO — ROOM 206 ON THE - NEW VARIABLE SPEED DRIVES WITH SECOND FLOOR. INTEGRAL DISCONNECT SWITCHES. ELEV. EQUIP. PLUG UNUSED HOLES IN WIRING GUTTER UNDERNEATH. SEE NOTE 1. MECH. EXISTING PANELBOARD "A" —

1 1st FLOOR MECHANICAL ROOM RENOVATION PLAN

| SCALE: 3/8" = 1'-0"

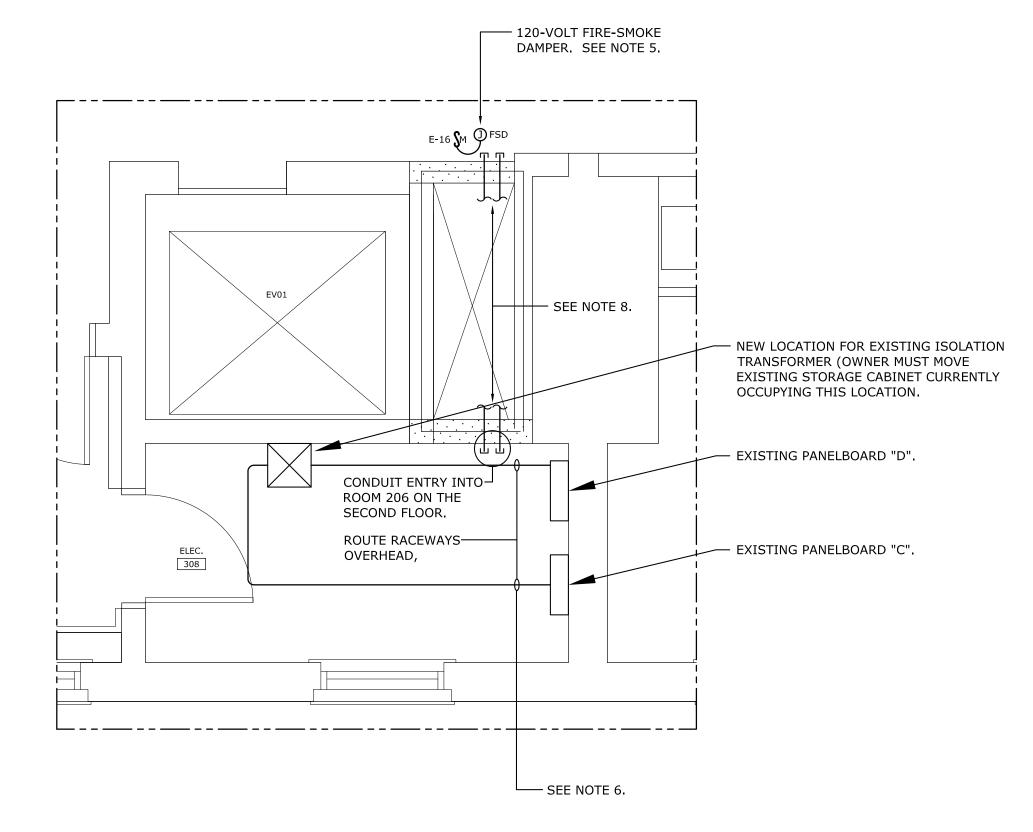
EXISTING PANELBOARD "F" ——



4 4th FLOOR STOR. ROOM RENOVATION PLAN SCALE: 3/8" = 1'-0"

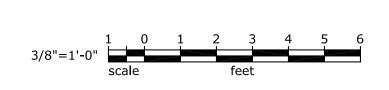
RENOVATION NOTES

- 1. VARIABLE FREQUENCY DRIVES WILL BE FURNISHED BY THE MECHANICAL CONTRACTOR TO SERVE THE NEW HOT WATER AND CHILLED WATER PUMPS. THE ELECTRICAL CONTRACTOR SHALL MOUNT THE DRIVES IN A CODE COMPLIANT LOCATION AND PROVIDE RACEWAY AND POWER WIRING AS REQUIRED TO SERVE EACH NEW PUMP MOTOR WITH POWER FROM PANELBOARD "A", TO A DRIVE, THEN TO A MOTOR. ALL CONTROL WIRING WILL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- 2. HOT WATER PUMPS: PROVIDE RACEWAY, WIRING, AND FITTINGS AS REQUIRED TO CONNECT EXISTING HOT WATER PUMPS TO THEIR NEW VARIABLE FREQUENCY DRIVES. WIRING SHALL BE THREE #12 AWG COPPER THHN CONDUCTORS WITH ONE GREEN-INSULATED #12 AWG COPPER GROUND WIRE IN 3/4" EMT.
- 3. CHILLED WATER PUMPS: PROVIDE RACEWAY, WIRING, AND FITTINGS AS REQUIRED TO CONNECT EXISTING CHILLED WATER PUMPS TO THEIR NEW VARIABLE FREQUENCY DRIVES. WIRING SHALL BE THREE #12 AWG COPPER THHN CONDUCTORS WITH ONE GREEN-INSULATED #12 AWG COPPER GROUND WIRE IN 3/4" EMT.
- 4. ROOM 206: PROVIDE FOUR EZ-PATH #33 SERIES 3"x3"x10.5"
 FIRE-RATED PATHWAY DEVICE (OR EQUAL) STACKED VERTICALLY AND MOUNTED AS CLOSE AS PRACTICAL TO THE HINGED ACCESS DOOR PROVIDED BY OTHERS. THESE PATHWAYS WILL BE UTILIZED BY USC INFORMATION TECHNOLOGY STAFF TO ROUTE DATA OUTLET COMMUNICATIONS CABLES FROM OTHER FLOORS TO THE SECOND FLOOR. COORDINATE INSTALLATION OF PATHWAY DEVICES WITH THE MECHANICAL CONTRACTOR.
- 5. FIRE-SMOKE DAMPERS: PROVIDE A MOTOR-RATED SNAP SWITCH IN A HANDY BOX TO SERVE AS LOCAL MEANS OF DISCONNECT FOR EACH MOTOR-OPERATED FIRE-SMOKE DAMPER. ROUTE 120-VOLT PHASE CONDUCTOR FOR EACH MOTOR THROUGH A SWITCH, THROUGH ALARM CONTACTS IN ASSOCIATED FIRE ALARM DUCT SMOKE DETECTOR, THEN TO DAMPER MOTOR.
- 6. PROVIDE FOUR #6 AWG COPPER THHN CONDUCTORS WITH ONE #10 AWG COPPER GREEN-INSULATED GROUND WIRE IN 3/4" EMT & FMC RACEWAYS TO RE-SERVE THE PRIMARY AND SECONDARY FEEDERS FOR THE EXISTING ISOLATION TRANSFORMER.
- 7. DATA RISER CONDUITS 1st FLOOR: PROVIDE TWO 2" EMT RACEWAYS WITH PULL STRINGS FROM THE CEILING SPACE IN HALLWAY H101, STUBBED INTO ELECTRICAL ROOM 206 ON THE SECOND FLOOR. PROVIDE A FIBER BUSHING ON ALL CONDUIT ENDS. PROVIDE A 2" FIRESTOP PLUG FOR EACH CONDUIT END.
- 8. DATA RISER CONDUITS 3rd FLOOR: PROVIDE TWO 2" EMT RACEWAYS WITH PULL STRINGS FROM THE CEILING SPACE IN OF THE 3RD FLOOR ELEVATOR LOBBY, STUBBED INTO ELECTRICAL ROOM 206 ON THE SECOND FLOOR. PROVIDE A FIBER BUSHING ON ALL CONDUIT ENDS. PROVIDE A 2" FIRESTOP PLUG FOR EACH CONDUIT END.

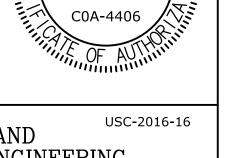


3 3rd FLOOR ELEC. ROOM RENOVATION PLAN

E8 SCALE: 3/8" = 1'-0"







ENGINEERING ASSOCIATES, LLC

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VIS WATSON TATE SAVORY

SER COLLEGE HVAC RENOVATION
ERSITY OF SOUTH CAROLINA
JMBIA, SC



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ENLARGED ELECTRICAL PLANS

E8