WATSON TATE SAVORY
architecture interiors planning

ADDENDUM NO.: THREE DATE: 29 July 2013

PROJECT TITLE: **HORIZON GROUND AND FOURTH FLOOR UPFIT**

University of South Carolina
State Project No. H27-6081-AC
WTS Project No. 11700/ File 7.0

WTS FILE NO.: 11700 / 7.0

WRITTEN BY: John McLean, AIA. LEED AP
J. Sanders Tate, AIA LEED AP

TO: Prospective Bidders / Plan Holders

This addendum is issued pursuant to Article 1.1.1 of the AIA General Conditions of the Contract (A201) in connection with the revision of Bidding Documents which have been previously issued.

Addenda are issued prior to execution of Contract. All instructions contained herein shall be reflected in the Contract Sum and this Addendum will be made a part of the Contract Documents, if, as, and when a Construction Contract is awarded.

This Addendum forms a part of the Contract Documents and modifies the original documents dated 17 June 2013 as noted below. Acknowledge receipt of this Addendum in this space provided on the Bid Form. Failure to do so will subject the Bidder to disqualification.

This Addendum consists of 01 page and the following attachment(s):

Addendum 2 (re-issued)……19 pages & 25 sheets
SSOE Addendum 3……..2 pages & 3 sheets

A. BID POSTPONED

BID CLOSING DATE: 8/6/2013
TIME: 2:00 PM
LOCATION: USC, 743 Greene Street, Columbia, SC 29208

B. CLARIFICATION

1. Addendum 2 is being re-issued unaltered from first issue except for corrupted text now printed accurately.
2. The General Contractor shall provide all firestopping for the Work through a single firestopping subcontractor for all trades.

END OF ADDENDUM

WATSON TATE SAVORY
architecture interiors planning

ADDENDUM NO.: TWO DATE: 25 July 2013

PROJECT TITLE: **HORIZON GROUND AND FOURTH FLOOR UPFIT**

University of South Carolina
State Project No. H27-6081-AC
WTS Project No. 11700/ File 7.0

WTS FILE NO.: 11700 / 7.0

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This Addendum consists of 03 pages and the following attachments:

SECTION 09941 – SPECIALTY PAINT FINISHES……4 pages
Drawing A2.01……..1 sheet
Drawing A2.41……..1 sheet
Drawing A2.51……..1 sheet
Drawing A3.1……..1 sheet
Drawing A4.1……..1 sheet
Drawing A5.1……..1 sheet
Drawing I 1.3……..1 sheet
Drawing I 2.3……..1 sheet
Drawing I 3.3……..1 sheet
SST Addendum 2……7 pages & 3 sheets
SSOE Addendum 2……..5 pages & 13 sheets

A. REVISIONS TO THE PROJECT MANUAL:

1. Incorporate revisions as listed in attached Addendum 2 documents

2. SECTION 01331 – ELECTRONIC SUBMITTAL PROCEEDURES
   a. Article 2.1 B : add Newforma Project Cloud as approved vendor-hosted website

3. SECTION 04200 – UNIT MASONRY
   a. Article 2.8.E.1: add "e. Hohmann-Barnard"

4. SECTION 07271 – UNDER SLAB VAPOR BARRIERS

   a. Article 2.1.A.2: add Viper VAPORCHECK II 15 "Class A" vapor barrier as approved product

5. SECTION 07841 – THROUGH PENITRATION FIRESTOP SYSTEMS

   a. Article 1.1, Add the following; B. Provide 200 l.f. of bottom of wall firestopping and 200 l.f. of top of wall firestopping in addition to firestopping shown in the documents to be provided at existing partitions. Locations shall be identified in advance and approved by the Architect prior to this work being done.
   b. Article 1.5, replace A with the following; A. Installer Qualifications; A firm that has been approved by FMG according to FMG 4991, "Approval of Firestop Contractors. " or a UL Qualified Firestop Contractor

6. SECTION 8710 – FINISH HARDWARE
   a. Article 2.2, A; Add Cores: 7 pin Best shall be provided (no substitutions)
   b. Part 4, Schedule, Hardware Set 4; add door 019A to this set.

7. SECTION 09941 - SPECIALTY PAINT
   a. Add this specification section for painting FRP columns at fourth floor

B. REVISIONS TO DRAWINGS:

1. Replace Drawings listed as attachment to this addendum with revised Drawings that are a part of this addendum.
2. Replace Drawings listed within Addendum 2 attachments to this addendum with revised Drawings that are a part of Addendum 2 attachments.

C. RESPONSES TO QUESTIONS:

1. *Is the roof patio under a roofing warranty? Who has the warranty and who installed the system?* **Response; Product specified is a specific compatible roof system that is by the manufacturer of the spray applied system that is existing. The scope of work is not warranty work but added scope. There is no current problem with the membrane. A pre-installation conference with the manufacturers rep on site will be part of the work.**

2. *General note 6 on sheet A2.11 indicates that the finishes are to be patched. Please clarify what finishes need to be patched beyond the base.* **Response; bidders shall assume existing finishes in existing data closets are painted gypsum wallboard and unpainted structure a the ceiling and VCT at the floor.**

3. *The finish schedule indicates that the finishes need to be patched/repaired in existing areas as necessary. However, the types of finishes in those areas are not indicated. Please provide.* **Response; finish schedules for floors 1-3 are included for information only.**

4. *414 server and an area in the penthouse have a fire rated insulation protection detail (a6.21/4). There is a general note on this detail that indicated that this detail should apply to all locations that duct has fire rated insulation. The plans only indicate these two locations. Please verify that these two location are the only location requiring this detail.* **Response; See section references and notations on RCPs and penthouse plan calling out detail 6 on sheet A6.21, also designated by hatched area.**
5. *Please clarify the requirement for the installer qualifications for section 08412.* **Response, specified qualifications are unchanged per this addendum.**

END OF ADDENDUM

SECTION 09941 – SPECIALTY PAINT FINISHES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Surface preparation and finishing of all surfaces to receive specialty paint finish as indicated on the drawings.

B. "Paint" includes primers, sealers and fillers as recommended by the specialty paint finish manufacturer. All materials within this section, including finishes, primers and basecoats are to be provided by one manufacturer.

1.2 SYSTEM DESCRIPTION

A. Finish Materials: Conform to applicable code for flame/fuel/smoke rating requirements.

B. Fire Ratings:
1. Class A Fire Hazard Classification.
2. Test Procedure ASTM E-84.

1.3 SUBMITTALS

A. Product Data: Provide data on all finishing products.

B. Paint Schedule: Submit schedule for each substrate type and paint product to be applied including number of coats and finish prep (between coats).

C. Submit manufacturer's full color line for initial selection process.

D. Samples: Submit two samples, 5 x 8 inch in size illustrating range of colors and textures available for each surface finishing product selected from initial submission.

E. Final selection will be from job-applied samples only. Allow at least three minor shading changes of job-applied sample before final selection.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in their original, unopened containers bearing manufacturer’s labels.

B. Provide fire extinguishers in storage area. Do not leave containers open. Remove empty cans and rags with oil or solvent from building every day.

C. Container label to include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions to mixing and reducing as required.

D. Store paint materials at minimum ambient temperature of 50 degrees F and a maximum of 85 degrees F in ventilated area, and as required by manufacturer's instructions. Protect from freezing.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Apply coating under the following conditions:
   1. Temperature is between 50 and 85 degrees F.
   2. Temperature of substrate is above dew point.
   3. Substrate is dry to touch.

C. Protect surfaces not to be coated.

D. Provide lighting level of 80-footcandles measured mid-height at substrate surface.

E. Provide adequate fresh air and ventilation during application.

1.6 EXTRA MATERIALS

A. Furnish under provisions of Division 1.

B. Provide 2 (two) sheets of pre-finished repair samples for each color blend used.

C. Submit complete manufacturer maintenance manual to Owner.

D. Provide 1 (one) gallon of each color blend used to Owner in sealed, labeled containers.

E. Label each container with color, type, texture, and room locations in addition to the manufacturer's label.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:
   1. Zolatone Interior Finishes – Basis of Design.
      a. Surface Protection Industries, Inc.
         400 Charter Way
         N. Billerica, MA 01862
      b. Available through local Zolatone Interior Finishes representative:
         Cheryl Simerly & Associates
         3208 Sadler Road
         Charlotte, NC 28278-9668
         (704) 577-8717
   2. Approved Equal.

B. Primers, Sealers and Fillers: Provide basecoats recommended by manufacturer. Do not tint basecoats. Use only products manufactured by the same manufacturer as as the finish coats.

C. Finish Coats:

1. Counterpointe™ by Zolatone® light reflective wall finish. Finish shall be ready-mixed; no tinting required.
    a. Pearltone Finish. Apply with airless spray equipment as recommended by manufacturer.
    b. Sandtone Finish. Apply with conventional air-spraying equipment as recommended by manufacturer.
2. Approved Equal.

D. Provide waterbased, Low VOC paint only, for LEED certification.

E. Provide primers and undercoat paint produced by the same manufacturer as the finish coats.

F. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials required to achieve the finishes specified as recommended by the coating manufacturer.

G. All materials utilized must be lead-free and shall comply with Section 401(b) of the Lead-Based Poisoning Prevention Act.

H. All paints, coatings, and accessory materials shall comply with Volatile Organic Compound (VOC) regulations currently in effect at the project location.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATON

A. Applicator Qualifications:
1. Applicator shall certify in writing that technicians utilized for work in this section have been trained by the manufacturer or its representative.
2. Applicator shall include in his certification that specialized equipment as required by the manufacturer will be used for work in this section.

B. Verify that substrate conditions are ready to receive Work and are in accordance with coating manufacturer's requirements.

C. Measure moisture content of porous surfaces using an electronic moisture meter. Do not apply finishes unless moisture content is less than 12 percent or as recommended by the manufacturer.

D. Verify that pH of surfaces to be coated is under 10.

E. Sand and reprime all abrasions and damage spots in the surface of the basecoat before proceeding with subsequent finish coat.

F. Ferrous Metals: Remove rust and mill scale. Shop coated, unprimed or damaged areas shall be cleaned to meet the requirements of the Steel Structures Painting Council 5P-3 Power Tool Cleaning and primed in accordance with these recommendations. Wire brush or sand damaged or rusted areas to bright metal.

Remove grease and other foreign materials with mineral spirits. Touch-up damaged areas of shop primer.

G. Non-Ferrous Metals: Clean with lacquer thinner.

H. Gypsum Board: Apply joint tape and compound to joints, fastener heads, dents, and surface flaws as specified in Section 09250. Prepare surface to a Level 5 drywall finish. Use acrylic joint compound (light-weight muds may cause joint problems). Sand smooth and flush with adjacent surfaces. For moisture-resistant and impact-resistant board, apply primer manufacturer's recommendations.

I. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust, feather edges; clean surfaces with solvent. Prime bare steel surfaces.

3.2 APPLICATION

A. Apply products in accordance with manufacturer's instructions.

B. All materials shall be applied under adequate illumination, evenly spread and smoothly applied, free of runs, sags, lapmarks, air bubbles and pinholes to insure a smooth finish.

C. Basecoat: Apply as many coats as necessary to produce a uniform substrate appearance. Do not exceed manufacturer's recommended coverage rate. Allow individual coats to dry prior to application of subsequent coats. Over drywall, back-roll basecoat if airless applied.

D. Gypsum Board: Sand basecoat with 100 grit or finer sandpaper. Remove dust.

E. Light Reflective Finish: Apply coating material in accordance with manufacturer's recommendation for finish coat.

F. Apply multicolor finish to "repair sheets" as same time as application to specified substrate. Include repair sheets in Owner's maintenance manual or in job close-out package.

3.3 PROGESS CLEANING

A. As work proceeds, promptly remove spilled, splashed, or spattered finishes.

B. Collect waste material which may constitute a fire hazard, place in closed containers and remove daily from site

3.4 SCHEDULE –SURFACES

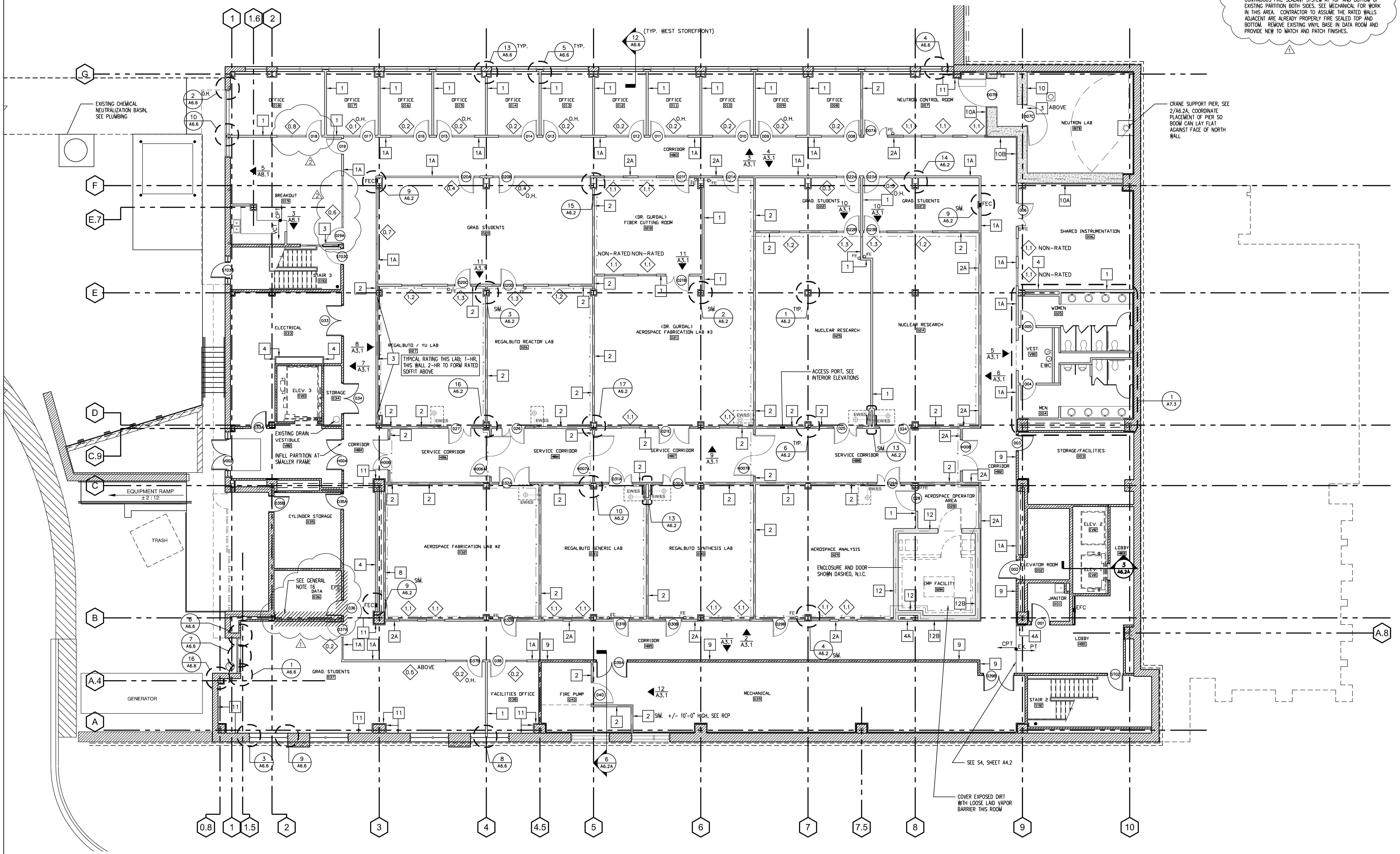
A. Interior Column Enclosures at Fourth floor.
   1. Basecoat as recommended by the manufacturer.
   2. Finish coat as recommended by the manufacturer.

END OF SECTION 09941

GENERAL NOTES:

1. ALL EXTERIOR WALLS TO RECEIVE GYPSUM WALLBOARD FINISH.
2. PROVIDE GWB AT EXTERIOR WALLS TO 6" ABOVE FINISH CEILING.
3. EXTERIOR WALL FRAMING WITH THERMAL BATT INSULATION IS EXISTING. GWB TO BE PROVIDED PER THIS CONTRACT.
4. REFER TO LAB EQUIPMENT "Q" DRAWINGS FOR PLACEMENT OF LAB CASEWORK, BENCHES AND EQUIPMENT. PROVIDE BLOCKING FOR ALL EQUIPMENT AND FUTURE EQUIPMENT, PER ROUGH CARPENTRY SECTION
5. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL EXISTING EXTERIOR STOREFRONT/CURTAINWALL IN THE FOLLOWING ROOMS: 007-019
5. PROVIDE HORIZONTAL LOUVER BLINDS AT ALL EAST EXISTING EXTERIOR STOREFRONT IN THE FOLLOWING ROOMS: 037 & 38
6. VERIFY EXISTING FLOOR TO FLOOR HEIGHTS:
   - 6.1. GROUND FLOOR TO FIRST FLOOR 17'-4"
   - 6.2. FIRST FLOOR TO SECOND FLOOR 18'-8"
   - 6.3. SECOND FLOOR TO THIRD FLOOR 14'-8"
   - 6.4. THIRD FLOOR TO FOURTH FLOOR 14'-8"
   - 6.5. FOURTH FLOOR TO PENTHOUSE 14'-8"
9. PATCH AND REPAIR EXISTING FINISHES PER SECTION 01731 "CUTTING AND PATCHING" AT SOUTHEAST SECTION OF ELEVATOR LOBBY V002 AS REQUIRED DUE TO INSTALLATION OF MECHANICAL AND/OR PLUMBING.
10. PATCH AND REPAIR EXISTING GYPSUM SHAFTWALL AT EXISTING SHAFTS AS REQUIRED FOR INSTALLATION OF MECHANICAL, ELECTRICAL AND PLUMBING ITEMS PER SECTION 01731 "CUTTING AND PATCHING".
11. SEE EXISTING FLOOR PLAN FOR DESCRIPTION OF EXISTING PARTITIONS
12. SEE A2.03 FOR DIMENSIONS
13. PROVIDE PERIMETER TRIM AT ALL EXISTING FIRE EXTINGUISHER CABINETS FROM SAME MANUFACTURER AS EXISTING CABINET TO PROVIDE COMPLETE INSTALLATION.
14. IN LABORATORIES MOUNT FIRE EXTINGUISHER BRACKET SO BOTTOM OF EXTINGUISHER IS NO MORE THAN 2'-2" A.F.F. WHERE BRACKET IS MOUNTED ON BASE CABINETS MOUNT BRACKET AS HIGH AS POSSIBLE.
15. ALL EXISTING FLOOR SLABS ARE 2-HOUR RATED, PROVIDE FIRE SEALANT SYSTEM AT ALL NEW PENETRATIONS TO MAINTAIN RATING
16. HATCH INDICATES TO STRIP EXISTING SEALANT AT HEAD AND BASE OF EXISTING PARTITION BOTH SIDES AND PROVIDE CONTINUOUS FIRE SEALANT SYSTEM AT TOP AND BOTTOM OF EXISTING PARTITION BOTH SIDES. SEE MECHANICAL FOR WORK IN THIS AREA. CONTRACTOR TO ASSUME THE RATED WALLS ADJACENT ARE ALREADY PROPERLY FIRE SEALED TOP AND BOTTOM. REMOVE EXISTING VINYL BASE IN DATA ROOM AND PROVIDE NEW TO MATCH AND PATCH FINISHES.

1



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A2.01

GROUND FLOOR PLAN

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

JOB N
N

innovista
University of South Carolina

STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	7/17/13	Addendum #1
2	7/25/13	Addendum #2

LEGEND

- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- CONTROL AREA PERIMETER WALL
- EFC EXISTING FIRE EXTINGUISHER CABINET & EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET & EXTINGUISHER

PARTITION TYPES

SEE DRAWING A6.1 FOR PARTITION TYPE CONSTRUCTION.

- TYPE 1: 4 7/8" NON-RATED TO STRUCT.
- TYPE 1A: 4 7/8" NON-RATED TO STRUCT. W/ REVEALS
- TYPE 2: 4 7/8" 1-HR. RATED TO STRUCT.
- TYPE 2A: 5 1/2" 1-HR. RATED TO STRUCT. W/ REVEALS
- TYPE 3: 6 1/8" 2-HR. RATED TO STRUCT.
- TYPE 3A: 6 3/4" 2-HR. RATED TO STRUCT. W/ REVEALS
- TYPE 4: 4 1/4" NON-RATED TO STRUCT.
- TYPE 4A: 4 1/4" NON-RATED TO STRUCT. W/ REVEALS
- TYPE 4B: VARIOUS THICKNESS - 1-HR RATED
- TYPE 5: 5/8" GWB ON EXISTING FRAMING
- TYPE 6: 4 7/8" NON-RATED TO 6" ABOVE CEILING
- TYPE 6A: 4 7/8" NON-RATED TO 6" ABOVE CEILING W/ REVEALS
- TYPE 7: 5 1/4" 2-HR. RATED SHAFTWALL TO STRUCT.
- TYPE 7A: 5 7/8" 2-HR. RATED SHAFTWALL TO STRUCT. W/ REVEALS
- TYPE 8: 4 5/8" 1-HR. RATED SHAFTWALL TO STRUCT.
- TYPE 8: 5 1/4" 1-HR. RATED SHAFTWALL TO STRUCT. W/ REVEALS
- TYPE 9: EXISTING WALL W/ ADDITIONAL GWB LAYER W/ REVEALS
- TYPE 10: 2'-0" CONCRETE 2-HOUR RATED TO STRUCTURE ABOVE
- TYPE 10A: 2'-0" CONCRETE 2-HOUR RATED TO STRUCTURE ABOVE W/ FURRING
- TYPE 10B: 2'-0" CONCRETE 2-HOUR RATED TO STRUCTURE ABOVE W/ FURRING & REVEALS
- TYPE 11: 2 1/4" NON-RATED TO STRUCT.
- TYPE 11A: VARIOUS THICKNESS - 1-HR RATED
- TYPE 11B: VARIOUS THICKNESS - 2-HR RATED
- TYPE 12: 11 5/8" CMU 2-HOUR RATED TO STRUCTURE ABOVE
- TYPE 12A: 1'-1 7/8" 2-HOUR RATED CMU WITH FURRING
- TYPE 12B: 1'-1 7/8" 2-HOUR RATED CMU WITH FURRING AND REVEALS
- EXISTING WALL

STATE OF SOUTH CAROLINA
WATSON TATE SAVORY ARCHITECTS, INC.
COLUMBIA, S.C.
C92011
REGISTERED ARCHITECTS

WATSON TATE SAVORY

Ground Floor Plan

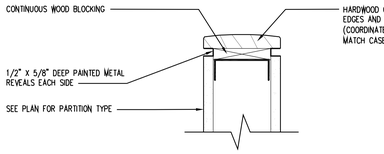
P.O. BOX 8444. COLUMBIA, SC 29202 1316 WASHINGTON STREET. COLUMBIA, SC 29201

A2.01

WTS NO.: 11700

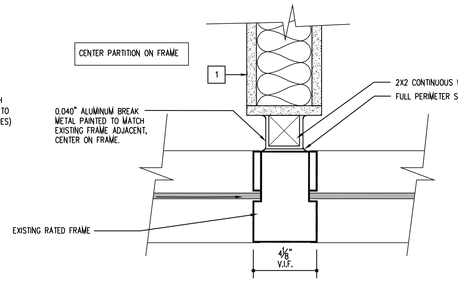
JUNE 17, 2013

BIDDING DOCUMENTS



2 A2.41 **DETAIL**

SCALE: 3" = 1'-0"



3 A2.41 **DETAIL**

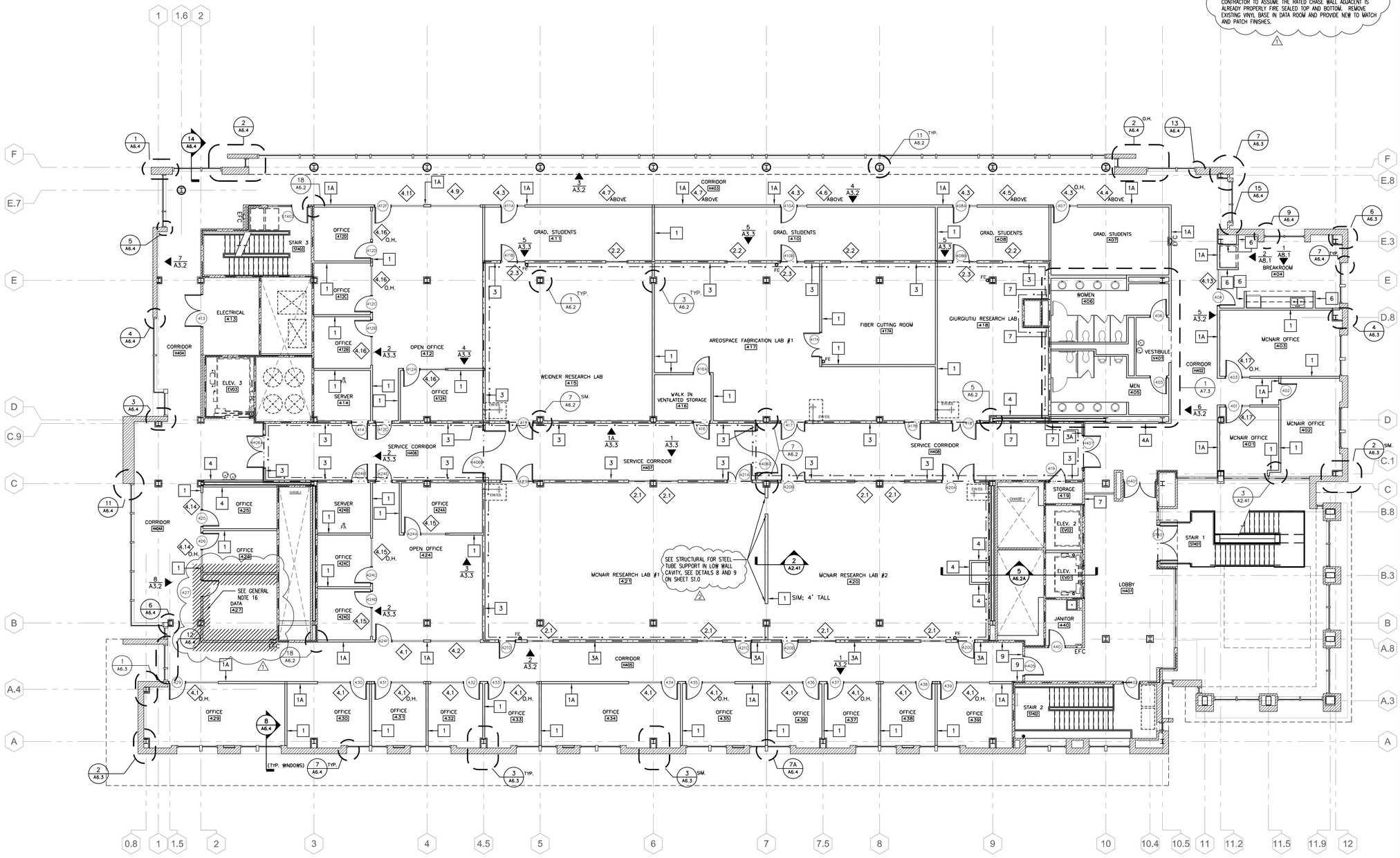
SCALE: 3" = 1'-0"

THIRD FLOOR CEILING PLENUM WORK NOTES:

1. COORDINATE WITH OWNER AND THIRD FLOOR BUILDING OCCUPANTS TO PERFORM WORK THAT REQUIRES ACCESS TO THIRD FLOOR CEILING PLENUM SPACE TO MINIMIZE DISTURBANCE.
2. PRIOR TO WORK THAT IMPACTS SPACES ON THE THIRD FLOOR OWNER'S FORCES SHALL REMOVE LOOSE EQUIPMENT AND FURNISHINGS TO BETTER ALLOW CONTRACTOR'S FORCES TO PERFORM WORK.
3. CONTRACTOR'S FORCES SHALL NOT MOVE LOOSE RESEARCH EQUIPMENT OR MATERIALS ON THE THIRD FLOOR.
4. SEE SHEET I 3.2 (FOR INFORMATION ONLY) FOR EXISTING CONDITIONS AT THIRD FLOOR CEILINGS. CONTRACTOR'S FORCES SHALL OPEN UP EXISTING CEILINGS TO COMPLETE WORK AND SHALL RETURN SPACES TO CONDITION FOUND PRIOR TO THE WORK. BIDDERS SHALL ASSUME THE TYPE OF ACOUSTICAL CEILING AT EXISTING THIRD FLOOR LAB AND OFFICE CEILINGS ARE THE SAME AS SPECIFIED AT NEW LABS AND OFFICES AS PART OF THIS WORK ON THE GROUND AND FOURTH FLOOR.
5. CONTRACTOR SHALL REPLACE DAMAGED CEILING TILE AND GRID AND REPAIR ANY OTHER DAMAGE RESULTING FROM THE WORK ON THE THIRD FLOOR.
6. CONTRACTOR SHALL ASSUME ALL NEW PIPING AND CONDUIT THAT MUST PASS THROUGH THE EXISTING THIRD FLOOR PLENUM WILL BE ABLE TO BE ROUTED WITHOUT MODIFYING/RELOCATING EXISTING OVERHEAD SERVICE CARRIERS, DUCTS, PIPES, CONDUITS OR OTHER EXISTING ELEMENTS.
7. ALL WORK THAT REQUIRES A THIRD FLOOR LAB TO BE DISRUPTED SHALL BE COMPLETED AT ONE TIME.
8. PRESSURE TESTING OF PIPING SHALL BE COMPLETED AT THE TIME OF INSTALLATION IN THIRD FLOOR CEILING PLENUM SPACES TO ENSURE A THIRD FLOOR LAB IS NOT REQUIRED TO BE DISRUPTED A SECOND TIME.
9. SHOULD A THIRD FLOOR LAB HAVE TO BE DISTURBED A SECOND TIME DUE TO THE CONTRACTOR'S FORCES, THE COST OF LOST RESEARCH TIME, OWNER STAFF'S TIME TO AGAIN CLEAR OUT THE LAB AND OTHER OWNER INCURRED CHARGES WILL BE ASSIGNED TO THE CONTRACTOR.
10. CUTTING AND PATCHING WORK AT THE THIRD FLOOR CEILING SHALL NOT BE LIMITED TO EXISTING THIRD FLOOR LABS, BUT SHALL BE AS NEEDED TO PROVIDE PIPING AS SHOWN ON THE MECHANICAL DRAWINGS.

GENERAL NOTES:

1. ALL EXTERIOR WALLS TO RECEIVE GYPSUM WALLBOARD FINISH.
2. PROVIDE GWB AT EXTERIOR WALLS TO 6" ABOVE FINISH CEILING.
3. EXTERIOR WALL FRAMING WITH THERMAL BATT INSULATION IS EXISTING. 5/8" GWB AND ADDITIONAL LIGHT GAUGE STUD FRAMING AS IS SHOWN TO BE PROVIDED PER THIS CONTRACT.
4. REFER TO LAB EQUIPMENT "Q" DRAWINGS FOR PLACEMENT OF LAB CASEWORK, BENCHES AND EQUIPMENT. PROVIDE BLOCKING FOR ALL EQUIPMENT AND FUTURE EQUIPMENT, PER ROUGH CARPENTRY SECTION.
5. PROVIDE HORIZONTAL LOUVER BLINDS AT EXISTING EXTERIOR STOREFRONT IN FOLLOWING ROOMS: 402-404 AND 429-439
6. VERIFY EXISTING FLOOR TO FLOOR HEIGHTS:
   - 6.1. GROUND FLOOR TO FIRST FLOOR 17'-4"
   - 6.2. FIRST FLOOR TO SECOND FLOOR 18'-8"
   - 6.3. SECOND FLOOR TO THIRD FLOOR 14'-8"
   - 6.4. THIRD FLOOR TO FOURTH FLOOR 14'-8"
   - 6.5. FOURTH FLOOR TO PENTHOUSE 14'-8"
7. PROVIDE HORIZONTAL LOUVER BLINDS AT EXISTING INTERIOR STOREFRONT FACING STAIR 1 IN FOLLOWING ROOMS: 401-402
8. PATCH AND REPAIR EXISTING FINISHES PER SECTION 01731 "CUTTING AND PATCHING" AT SOUTHEAST SECTION OF ELEVATOR LOBBY V002 AS REQUIRED DUE TO INSTALLATION OF MECHANICAL AND/OR PLUMBING.
9. PATCH AND REPAIR EXISTING GYPSUM SHAFTWALL AT EXISTING SHAFTS AS REQUIRED FOR INSTALLATION OF MECHANICAL, ELECTRICAL AND PLUMBING ITEMS PER SECTION 01731 "CUTTING AND PATCHING".
10. NOT USED
11. SEE EXISTING FLOOR PLAN FOR DESCRIPTION OF EXISTING PARTITIONS
12. SEE A2.43 FOR DIMENSIONS
13. PROVIDE PERIMETER TRIM AT ALL EXISTING FIRE EXTINGUISHER CABINETS FROM SAME MANUFACTURER AS EXISTING CABINET TO PROVIDE COMPLETE INSTALLATION.
14. IN LABORATORIES MOUNT FIRE EXTINGUISHER BRACKET SO BOTTOM OF EXTINGUISHER IS NO MORE THAN 2'-2" A.F.F. WHERE BRACKET IS MOUNTED ON BASE CABINETS MOUNT BRACKET AS HIGH AS POSSIBLE.
15. ALL EXISTING FLOOR SLABS ARE 2-HOUR RATED, PROVIDE FIRE SEALANT SYSTEM AT ALL NEW PENETRATIONS TO MAINTAIN RATING
16. HATCH INDICATES TO STRIP EXISTING SEALANT AT HEAD AND BASE OF EXISTING PARTITION BOTH SIDES AND PROVIDE CONTINUOUS FIRE SEALANT SYSTEM AT TOP AND BOTTOM OF EXISTING PARTITION BOTH SIDES. SEE MECHANICAL FOR WORK IN THIS AREA. CONTRACTOR TO ASSUME THE RATED CHASE WALL ADJACENT IS ALREADY PROPERLY FIRE SEALED TOP AND BOTTOM. REMOVE EXISTING VINYL BASE IN DATA ROOM AND PROVIDE NEW TO MATCH AND PATCH FINISHES.



1 A2.41 **FOURTH FLOOR PLAN**

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

JOIN

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innovista
University of South Carolina

STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	7/17/13	Addendum #1
2	7/25/13	Addendum #2

LEGEND

- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- CONTROL AREA PERIMETER WALL
- EFC EXISTING FIRE EXTINGUISHER CABINET & EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET & EXTINGUISHER

PARTITION TYPES

SEE DRAWING A6.1 FOR PARTITION TYPE CONSTRUCTION.

TYPE 1: 4 7/8" NON-RATED TO STRUCT.

TYPE 1A: 4 7/8" NON-RATED TO STRUCT. W/ REVEALS

TYPE 2: 4 7/8" 1-HR. RATED TO STRUCT.

TYPE 2A: 5 1/2" 1-HR. RATED TO STRUCT. W/ REVEALS

TYPE 3: 6 1/8" 2-HR. RATED TO STRUCT.

TYPE 3A: 6 3/4" 2-HR. RATED TO STRUCT. W/ REVEALS

TYPE 4: 4 1/4" NON-RATED TO STRUCT.

TYPE 4A: 4 1/4" NON-RATED TO STRUCT. W/ REVEALS

TYPE 4B: VARIOUS THICKNESS - 1-HR RATED

TYPE 5: 5/8" GWB ON EXISTING FRAMING

TYPE 6: 4 7/8" NON-RATED TO 6" ABOVE CEILING

TYPE 6A: 4 7/8" NON-RATED TO 6" ABOVE CEILING W/ REVEALS

TYPE 7: 5 1/4" 2-HR. RATED SHAFTWALL TO STRUCT.

TYPE 7A: 5 7/8" 2-HR. RATED SHAFTWALL TO STRUCT. W/ REVEALS

TYPE 8: 4 5/8" 1-HR. RATED SHAFTWALL TO STRUCT.

TYPE 8: 5 1/4" 1-HR. RATED SHAFTWALL TO STRUCT. W/ REVEALS

TYPE 9: EXISTING WALL W/ ADDITIONAL GWB LAYER W/ REVEALS

TYPE 10: 2'-0" CONCRETE 2-HOUR RATED TO STRUCTURE ABOVE

TYPE 10A: 2'-0" CONCRETE 2-HOUR RATED TO STRUCTURE ABOVE W/ FURRING

TYPE 10B: 2'-0" CONCRETE 2-HOUR RATED TO STRUCTURE ABOVE W/ FURRING & REVEALS

TYPE 11: 2 1/4" NON-RATED TO STRUCT.

TYPE 11A: VARIOUS THICKNESS - 1-HR RATED

TYPE 11B: VARIOUS THICKNESS - 2-HR RATED

TYPE 12: 11 5/8" CMU 2-HOUR RATED TO STRUCTURE ABOVE

TYPE 12A: 11-7 7/8" 2-HOUR RATED CMU WITH FURRING

TYPE 12B: 11-7 7/8" 2-HOUR RATED CMU WITH FURRING AND REVEALS

EXISTING WALL

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Fourth Floor Plan

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

A2.41

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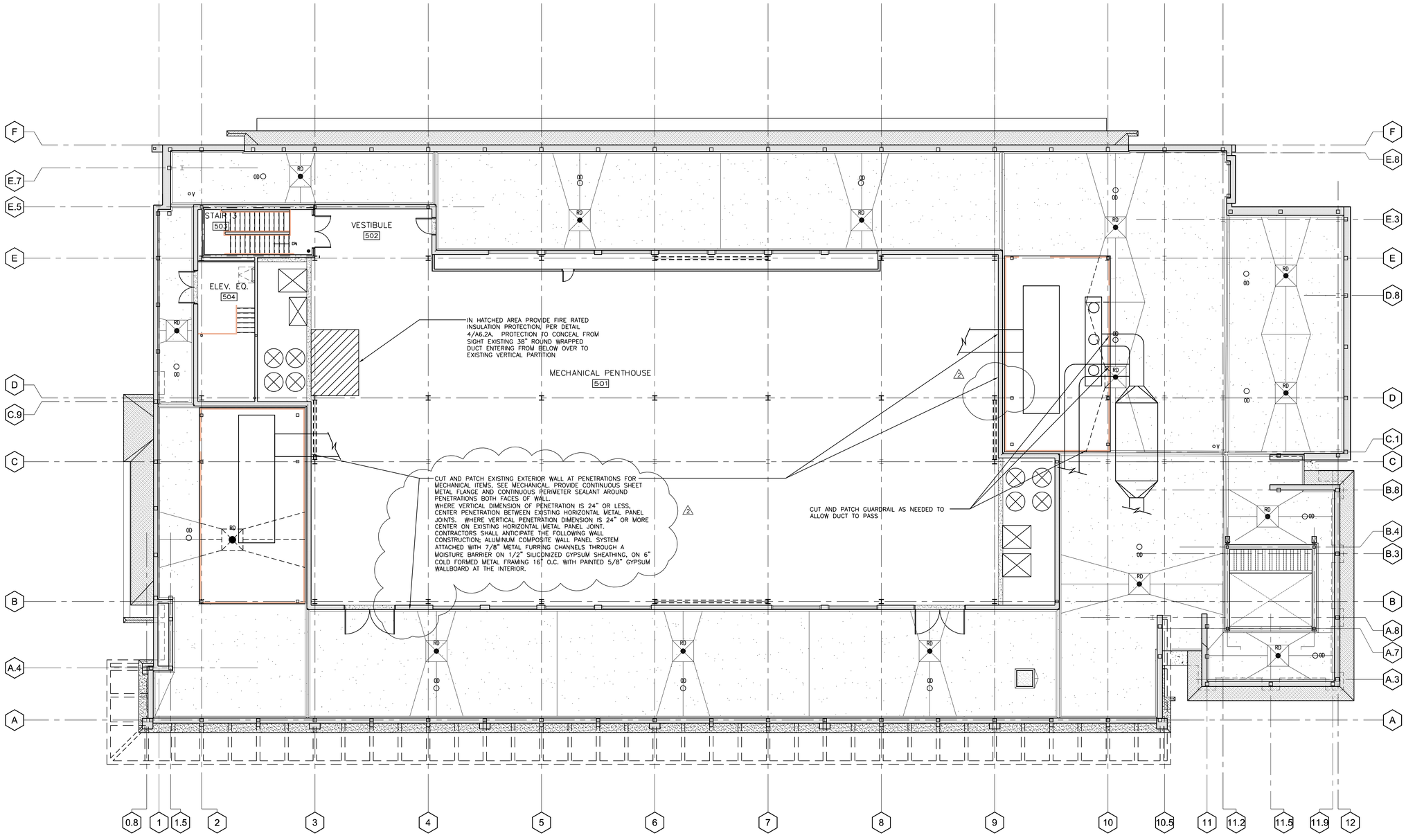
BIDDING DOCUMENTS



1 A2.51 **PENTHOUSE PLAN**

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

JOB N

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
2	7/25/13	Addendum #2

STATE OF SOUTH CAROLINA
WATSON TATE SAVORY ARCHITECTS, INC.
COLUMBIA, S.C.
C92011
REGISTERED ARCHITECTS

WATSON TATE SAVORY

Penthouse Plan

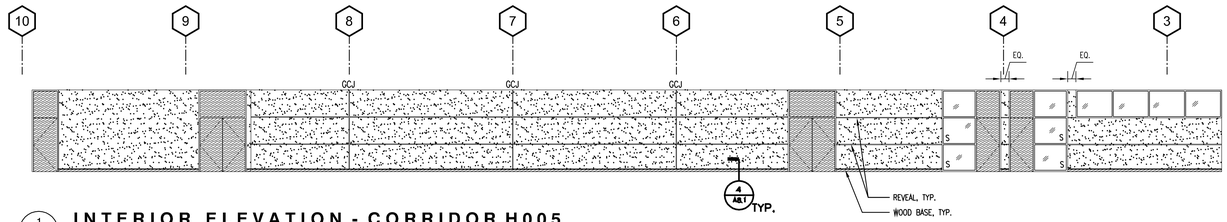
P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

A2.51

WTS NO.: 11700

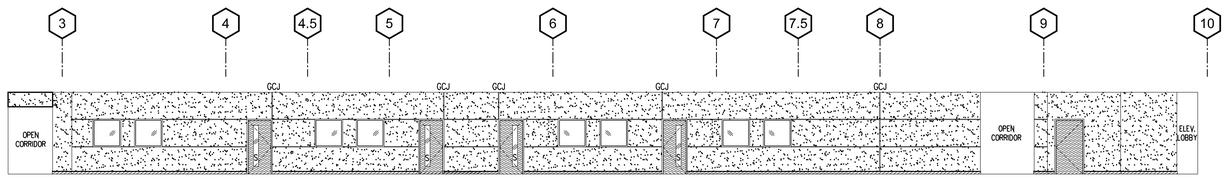
JUNE 17, 2013

BIDDING DOCUMENTS



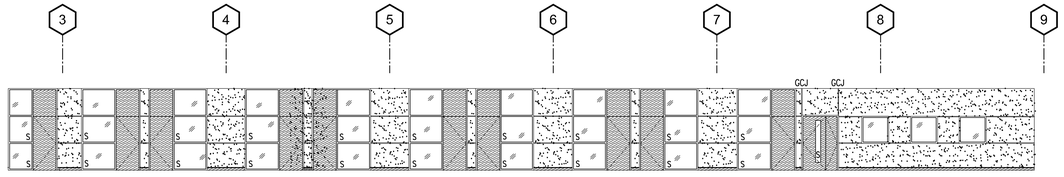
1 A3.1 **INTERIOR ELEVATION - CORRIDOR H005**

SCALE: 1/8" = 1'-0" (EAST ELEVATION)



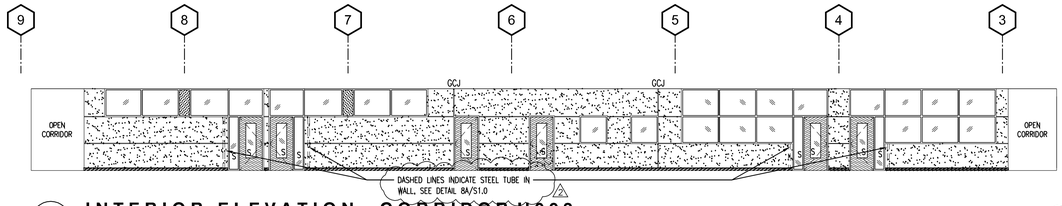
2 A3.1 **INTERIOR ELEVATION - CORRIDOR H005**

SCALE: 1/8" = 1'-0" (WEST ELEVATION)



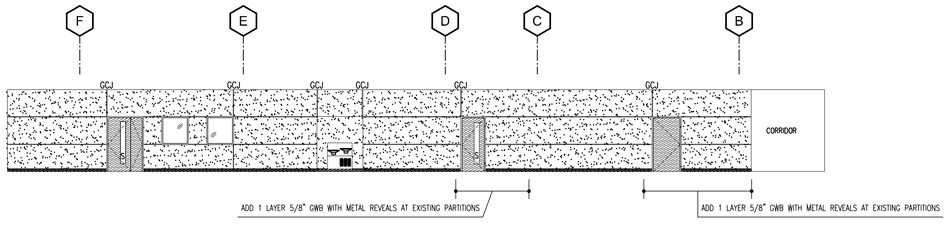
3 A3.1 **INTERIOR ELEVATION - CORRIDOR H003**

SCALE: 1/8" = 1'-0" (WEST ELEVATION)



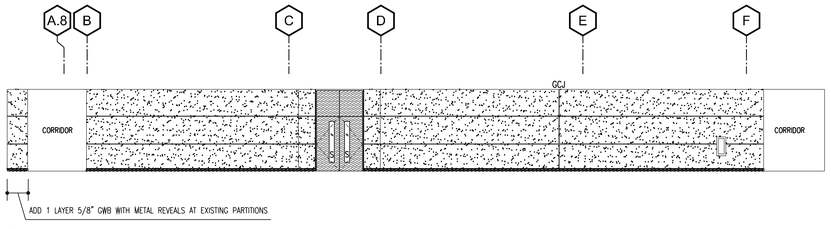
4 A3.1 **INTERIOR ELEVATION - CORRIDOR H003**

SCALE: 1/8" = 1'-0" (EAST ELEVATION)



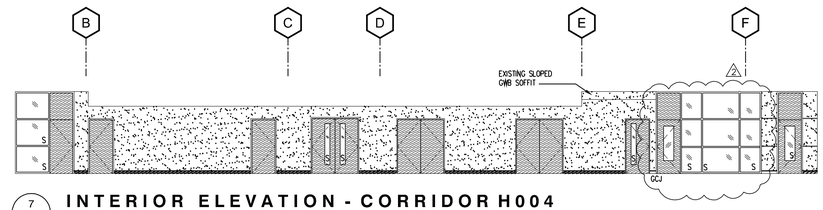
5 A3.1 **INTERIOR ELEVATION - CORRIDOR H002**

SCALE: 1/8" = 1'-0" (NORTH ELEVATION)



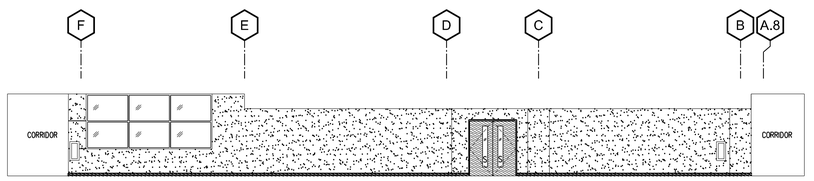
6 A3.1 **INTERIOR ELEVATION - CORRIDOR H002**

SCALE: 1/8" = 1'-0" (SOUTH ELEVATION)



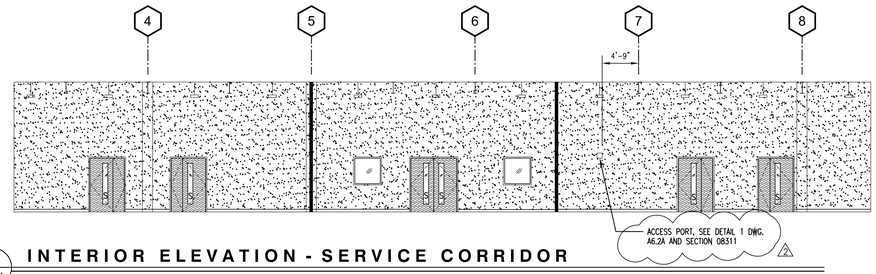
7 A3.1 **INTERIOR ELEVATION - CORRIDOR H004**

SCALE: 1/8" = 1'-0" (SOUTH ELEVATION)



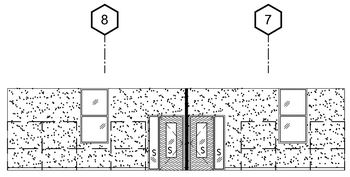
8 A3.1 **INTERIOR ELEVATION - CORRIDOR H004**

SCALE: 1/8" = 1'-0" (NORTH ELEVATION)



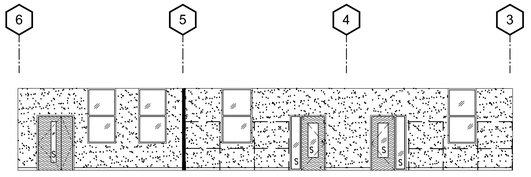
9 A3.1 **INTERIOR ELEVATION - SERVICE CORRIDOR**

SCALE: 1/8" = 1'-0" (WEST ELEVATION)



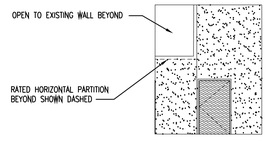
10 A3.1 **INTERIOR ELEVATION - GRAD. STUDENTS 022 AND 023**

SCALE: 1/8" = 1'-0" (EAST ELEVATION)



11 A3.1 **INTERIOR ELEVATION - 020 AND 021B**

SCALE: 1/8" = 1'-0" (EAST ELEVATION)



12 A3.1 **INTERIOR ELEVATION - MECHANICAL 039**

SCALE: 1/8" = 1'-0" (SOUTH ELEVATION)

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HORIZON I GROUND & FOURTH FLOORS UPFIT

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2	7/25/13	Addendum #2

GENERAL NOTES

1. REVEALS AT CORRIDORS ARE 1/2" WIDE BY 5/8" DEEP METAL REVEALS WITH PAINT FINISH.

LEGEND

GYPSUM WALLBOARD

WOOD

S IMPACT SAFETY GLAZING

STATE OF SOUTH CAROLINA
WATSON TATE SAVORY ARCHITECTS, INC.
COLUMBIA, S.C.
C92011
REGISTERED ARCHITECTS

WATSON TATE SAVORY

Ground Floor Interior Elevations

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

A3.1

WTS NO.: 11700 JUNE 17, 2013

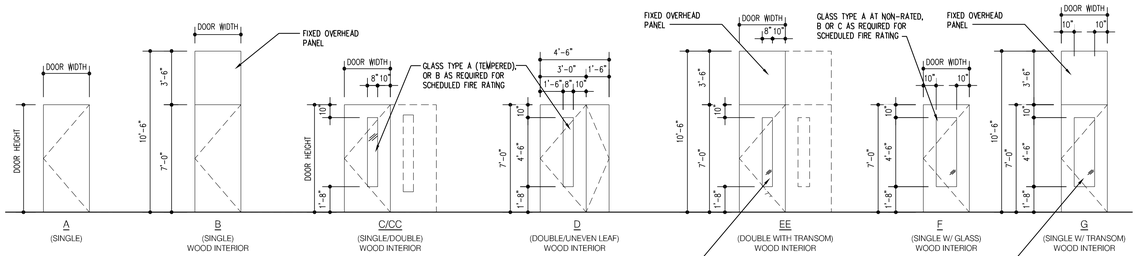
BIDDING DOCUMENTS

DOOR SCHEDULE - GROUND FLOOR

DOOR MARK	DOOR SIZE	DOOR TYPE	THK.	MATL.	FINISH	RATING	FRAME TYPE	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	REMARKS
ST02	3'-0" X 10'-6"	EXISTING DOOR				90 MIN.	EXISTING FRAME			EXIST.	
ST03B	3'-0" X 10'-6"	EXISTING DOOR				—	EXISTING FRAME			EXIST.	
ST03C	3'-0" X 7'-0"	C	1 3/4"	SCW	STAIN	90 MIN.	1	H 3	J 3	S 3	
V002	PR.(3'-0" X 10'-6")	EXISTING DOOR				—	EXISTING FRAME			EXIST.	* REMOVE AND REINSTALL EXISTING WALK-OFF MAT AND TRESHOLD TO ACCOMODATE WORK
H004	PR.(3'-0" X 7'-0" V.I.F. **)	EXISTING DOORS				—	1	H 1	J 1	S 3	** NEW FRAME TO FIT EXISTING DOORS
H006	PR.(3'-0" X 7'-0")	CC	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 3	
H006A	PR.(3'-0" X 10'-6")	CC	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	* DOUBLE EGRESS
H007A	PR.(4'-0" X 7'-0")*	CC	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	* DOUBLE EGRESS
H007B	PR.(4'-0" X 7'-0")*	CC	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	* DOUBLE EGRESS
H008	PR.(3'-0" X 10'-6")	EE	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 3	
001	3'-0" X 10'-6"	EXISTING DOOR				—	EXISTING FRAME			EXIST.	
002	3'-0" X 10'-6"	EXISTING DOOR				90 MIN.	EXISTING	H 4	J 4	S 3	
003	3'-0" X 10'-6"	EXISTING DOOR				90 MIN.	EXISTING	H 4	J 4	S 3	
004	3'-0" X 7'-0"	A	1 3/4"	SCW	STAIN	—	1	H 1	J 1	S 2	
005	3'-0" X 7'-0"	A	1 3/4"	SCW	STAIN	—	1	H 1	J 1	S 2	
006	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	—	1	H 2	J 2	S 3	
007A	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	45 MIN.	1	H 2	J 2	S 3	
007B	±5'-6" X 7'-0"	DOOR PANEL DETAILS PER SPECIFIED SHIELDING REQUIRED				—	FRAME AND DETAILS - T.B.D.				SEE SPECIALTY DOOR SPECIFICATION MAINTAIN 4'-0" MIN. CLEAR WHEN OPEN 90 DEGREES
007C	4'-0" X 7'-0"	A	1 3/4"	HM	PNT	90 MIN.	1	H 1	J 1	S 1	CONNECT TO FIRE ALARM SYSTEM FOR HOLD OPEN
008	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
009	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
010	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
011	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
012	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
013	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
014	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
015	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
016	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
017	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.1 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
018	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.8 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
019	3'-0" X 10'-6"	G	1 3/4"	SCW	STAIN	—	1	H 1	J 1	S 1	
019A	3'-0" X 10'-6"	G	1 3/4"	SCW	STAIN	—	0.6 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
020A	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	—	0.4 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
020B	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	—	0.4 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
020C	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	45 MIN.	1.3 (SEE DRAWING A4.3)*			S 3	* RATED H.M.
020D	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	45 MIN.	1.3 (SEE DRAWING A4.3)*			S 3	* RATED H.M.
021A	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	45 MIN.	1	H 2	J 2	S 3	
021B	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	—	1	H 1	J 1	S 1	
021E	PR.(3'-0" X 7'-0")	CC	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
021F	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	45 MIN.	1	H 2	J 2	S 1	
022A	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	—	0.3 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
022B	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	45 MIN.	1.3 (SEE DRAWING A4.3)*			S 3	* RATED H.M.
023A	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	—	0.3 (SEE A5 SERIES DRAWINGS)*			S 3	* INTERIOR ALUMINUM STOREFRONT
023B	3'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	45 MIN.	1.3 (SEE DRAWING A4.3)*			S 3	* RATED H.M.
024	PR (3'-0" X 7'-0")	CC	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
025	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
026	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
027	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
028	4'-0" X 7'-0"	F	1 3/4"	SCW	STAIN	—	1	H 1	J 1	S 1	
029A	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
029B	3'-0" X 7'-0"	C	1 3/4"	SCW	STAIN	45 MIN.	1	H 2	J 2	S 3	

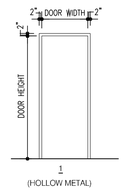
DOOR SCHEDULE - GROUND FLOOR

DOOR MARK	DOOR SIZE	DOOR TYPE	THK.	MATL.	FINISH	RATING	FRAME TYPE	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	REMARKS
030A	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
030B	3'-0" X 7'-0"	C	1 3/4"	SCW	STAIN	45 MIN.	1	H 2	J 2	S 3	
031A	4'-6" X 7'-0" (UNEVEN PAIR)	D	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
031B	3'-0" X 7'-0"	C	1 3/4"	SCW	STAIN	45 MIN.	1	H 2	J 2	S 3	
032A	PR.(3'-0" X 7'-0")	CC	1 3/4"	SCW	STAIN	45 MIN.	1	H 1	J 1	S 1	
032B	3'-0" X 7'-0"	C	1 3/4"	SCW	STAIN	45 MIN.	1	H 2	J 2	S 3	
033	PR.(3'-0" X 7'-0")	EXISTING DOOR				—	EXISTING FRAME			S 3	
033A	3'-0" X 7'-0"	EXISTING DOOR				—	EXISTING FRAME			EXIST.	
034	PR.(3'-0" X 7'-0")	EXISTING DOOR				—	EXISTING FRAME			S 3	
035A	3'-0" X 7'-0"	EXISTING DOOR				90 MIN.	EXISTING FRAME			S 3	
035B	3'-0" X 7'-0"	EXISTING DOOR				90 MIN.	EXISTING FRAME			EXIST.	
036	3'-0" X 7'-0"	EXISTING DOOR				90 MIN.	EXISTING FRAME			S 3	
037A	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
037B	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
038	3'-0" X 10'-6"	B	1 3/4"	SCW	STAIN	—	0.2 (SEE A5 SERIES DRAWINGS)*			S 1	* INTERIOR ALUMINUM STOREFRONT
039A	PR.(3'-0" X 10'-6")	EXISTING DOOR				45 MIN.	EXISTING	H 4	J 4	S 3	
039B	PR.(3'-0" X 10'-6")	EXISTING DOOR				45 MIN.	EXISTING FRAME			S 3	
040	4'-0" X 7'-0"	A	1 3/4"	HM	PNT	45 MIN.	1	H 1	J 1	S 1	



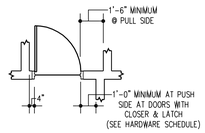
1 A4.1 **DOOR TYPES**

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



2 A4.1 **FRAME TYPES**

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



3 A4.1 **TYPICAL DOOR LOCATION**

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

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NOTES:

1. VENEER AT DOOR AND FIXED OVERDOOR PANELS TO BE OF ONE CONTINUOUS PIECE (TYP.)
2. PROVIDE GLASS TYPE AT DOORS AS REQUIRED TO MEET SPECIFIED RATING
3. ALL HOLLOW METAL FRAMES TO HAVE PAINT FINISH.

GLASS SCHEDULE:

A 1/4" CLEAR (TEMPERED WHERE NOTED W/ "T")
B 45 MINUTE FIRE RATED
C 90 MINUTE FIRE RATED
D 120 MINUTE FIRE RATED

STATE OF SOUTH CAROLINA
WATSON TATE SAVORY ARCHITECTS, INC.
COLUMBIA, S.C.
C92011
REGISTERED ARCHITECTS

WATSON TATE SAVORY

P.O. BOX 8444, COLUMBIA, SC 29202 1316 WASHINGTON STREET, COLUMBIA, SC 29201

Ground Floor Door Schedule & Types

A4.1

WTS NO.: 11700 | JUNE 17, 2013

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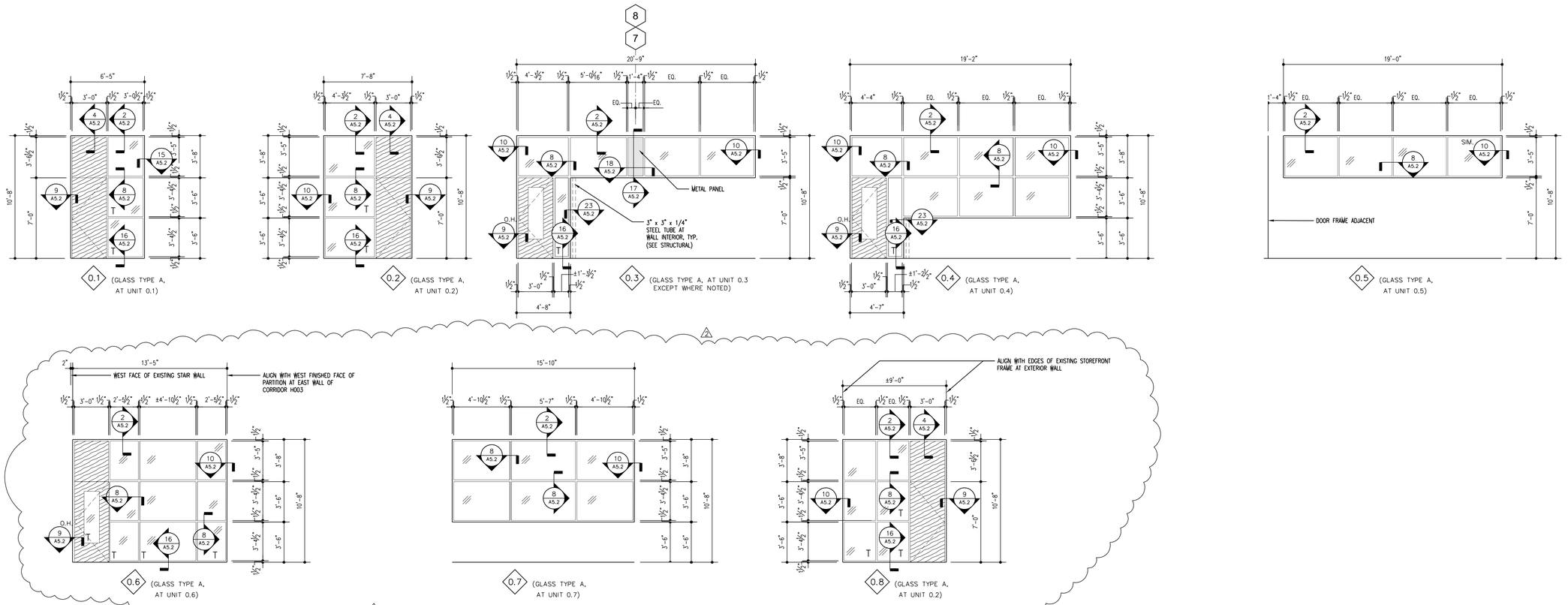

1 / A5.1 INTERIOR STOREFRONT ELEVATIONS

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

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GLASS SCHEDULE:

A 1/4" CLEAR (TEMPERED WHERE NOTED W/ "T")

GENERAL NOTES

1. FIELD VERIFY ALL OPENING DIMENSIONS.
2. SEE FLOOR PLANS FOR INTERIOR STOREFRONT SYMBOL: ◇
3. ALL UNITS THIS DRAWING TO BE GLASS TYPE "A" PROVIDE TEMPERED GLASS WHERE NOTED WITH "T" DESIGNATION AT ELEVATIONS.

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REGISTERED ARCHITECTS
WATSON TATE SAVORY ARCHITECTS, INC.
COLUMBIA, S.C.
C92011

WATSON TATE SAVORY

P.O. BOX 8444, COLUMBIA, SC 29202 1316 WASHINGTON STREET, COLUMBIA, SC 29201

Ground Floor Interior Storefront Elevations

A5.1

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

A5.1 - INTERIOR STOREFRONT ELEVATIONS 7/24/2013 2:17:01 PM

FINISH SCHEDULE - FIRST FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	PLAN WALLS NORTH	PLAN WALLS EAST	PLAN WALLS SOUTH	PLAN WALLS WEST	CEILING MATL.	CEILING HGT.	REMARKS
ST101	STAIR 1	EXIST. PRECAST	———	EXIST. STEEL/GLASS	EXIST. STEEL/GLASS	EXIST. STEEL/GLASS	EXIST. STEEL/GLASS	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	———	———	———	———	———		
ST102	STAIR 2	EXIST. RUBBER	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
ST103	STAIR 3	EXIST. RUBBER	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
H100	LOBBY	EXIST. PT	EXIST. WOOD	EXIST. GWB/WOOD/ALUM.	EXIST. GWB/WOOD/ALUM.	EXIST. GWB/WOOD/ALUM.	EXIST. GWB/WOOD/ALUM.	EXIST. GWB/WOOD	±58'-8" & ±57'-8"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	EXIST. STAIN *	EXIST. SP. PNT/STAIN/-*	EXIST. SP. PNT/STAIN/-*	EXIST. SP. PNT/STAIN/-*	EXIST. SP. PNT/STAIN/-*	EXIST. SP. PNT/STAIN*		
H101	ELEVATOR LOBBY	EXIST. PT	EXIST. WOOD	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST.ACT/EXIST.GWB	±13'-4" & ±12'-0"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	EXIST. STAIN *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. 2X2/PAINT *		
H102	CORRIDOR	PT-1	WOOD	GWB	GWB	GWB	GWB	ACT-1	13'-4"	* SEE PAINT PLAN THIS DRAWING
		———	STAIN	SP PNT-9*	SP PNT-11*	SP PNT-12*	SP PNT-12*	2X2		
H103	CORRIDOR	PT-1	WOOD	GWB	———	GWB	———	ACT-1	13'-4"	* SEE PAINT PLAN THIS DRAWING
		———	STAIN	SP PNT-9*	———	SP PNT-12*	———	2X2		
H104	CORRIDOR	PT-1	WOOD	GWB	GWB	GWB	GWB	ACT-1	13'-4"	* SEE PAINT PLAN THIS DRAWING
		——— (2)	STAIN	SP PNT-13*	SP PNT-10/SP PNT 9*	SP PNT-11*	SP PNT-13*	2X2		
H105	CORRIDOR	CPT-1	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	* SEE PAINT PLAN THIS DRAWING
		———	———	SP PNT-11/SP PNT 14*	SP PNT-11*	SP PNT-13*	SP PNT-13*	2X2		
H106	CORRIDOR	CPT-1	RUBBER	GWB	———	GWB	———	ACT-1	10'-8"	* SEE PAINT PLAN THIS DRAWING
		———	———	SP PNT-11*	———	SP PNT-13*	———	2X2		
H107	CORRIDOR	CPT-1	RUBBER	GWB	GWB	———	GWB	ACT-1	10'-8"	* SEE PAINT PLAN THIS DRAWING
		———	———	SP PNT-11*	SP PNT-9*	———	SP PNT-10/SP PNT 11*	2X2		
H108	CORRIDOR	CPT-1	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	* SEE PAINT PLAN THIS DRAWING
		———	———	SP PNT-11*	SP PNT-9*	SP PNT-11*	SP PNT-10*	2X2		
H109	SERVICE CORRIDOR	CONCRETE	RUBBER	GWB	GWB	GWB	GWB	STRUCTURE	±18'-2"	* EXPOSED PIPES & CONDUITS TO REMAIN UNPAINTED, EXCEPT FOR FIRE SPRINKLER PIPING SPEC'D. AT DIV. 15.
		SEAL	———	PNT-6	PNT-6	PNT-6	PNT-6	———		
H110	SERVICE CORRIDOR	CONCRETE	RUBBER	GWB	GWB	GWB	GWB	STRUCTURE	±18'-2"	* EXPOSED PIPES & CONDUITS TO REMAIN UNPAINTED, EXCEPT FOR FIRE SPRINKLER PIPING SPEC'D. AT DIV. 15.
		SEAL	———	PNT-6	PNT-6	PNT-6	PNT-6	———		
H111	SERVICE CORRIDOR	CONCRETE	RUBBER	GWB	GWB	GWB	GWB	STRUCTURE	±18'-2"	* EXPOSED PIPES & CONDUITS TO REMAIN UNPAINTED, EXCEPT FOR FIRE SPRINKLER PIPING SPEC'D. AT DIV. 15.
		SEAL	———	PNT-6	PNT-6	PNT-6	PNT-6	———		
(2)										
V101	VESTIBULE	CPT-1	WOOD	GWB	GWB	GWB	GWB	ACT-1	9'-4"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	STAIN	SP PNT 12	SP PNT 12	SP PNT 12	SP PNT 12	2X2		
V102	ELEVATOR VESTIBULE	VCT-1	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	SP PNT 11	SP PNT 11	SP PNT 11	SP PNT 11	2X2		
				(2)						
EV01	ELEVATOR 01	EXISTING ELEVATOR SHAFT AND CAB								
EV02	FUTURE ELEVATOR 02	EXISTING SHAFT FOR FUTURE ELEVATOR CAB								
EV03	ELEVATOR 03	EXISTING ELEVATOR SHAFT & CAB								
				(2)						
101	DISPLAY	PT-1	RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	GWB	±10'-2"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PNT *	EXIST. PNT *	EXIST. PNT *	EXIST. PNT *	EXIST. PNT*		
102	JANITOR	EXIST. CONCRETE	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	ACT-1**	±10'-8"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD. ** REPLACE EXISTING CEILING TILES
		———	———	EXIST. PNT *	EXIST. PNT *	EXIST. PNT *	EXIST. PNT *	2X2		
103	CONFERENCE ROOM	CPT-3	WOOD	GWB	GWB	GWB	GWB	ACT-1/GWB	13'-4" / 14'-0"	
		———	STAIN	PNT-1	PNT-3	PNT-4	PNT-3	2X2 / PNT-7		
104	IDEA DRY LAB	VCT-1/VCT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-2	13'-4"	
		———	———	PNT-1	PNT-2	PNT-4	PNT-2	2X2 / 1X2		
105	IDEA DRY LAB	VCT-1/VCT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-2	13'-4"	
		———	———	PNT-1	PNT-2	PNT-4	PNT-2	2X2 / 1X2		
106	IDEA DRY LAB	VCT-1/VCT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-2	13'-4"	
		———	———	PNT-1	PNT-2	PNT-4	PNT-2	2X2 / 1X2		
107	MEN	PT-2	PT	CT*	CT*	CT*	CT*	ACT-1/GWB	9'-4"	* 8X8 CT TYPICAL: 2X2 AT SINK WALL (SEE SHEET A7.2 FOR ELEVATIONS)
		———	———	———	———	———	———	2X2 / PNT-7		
108	WOMEN	PT-2	PT	CT*	CT*	CT*	CT*	ACT-1/GWB	9'-4"	* 8X8 CT TYPICAL: 2X2 AT SINK WALL (SEE SHEET A7.2 FOR ELEVATIONS)
		———	———	———	———	———	———	2X2 / PNT-7		
109	WORKROOM	(3) CPT-1	WOOD	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	STAIN	PNT-2	PNT-2	PNT-3	PNT-2	2X2		
110	VENDING	PT-1	WOOD	GWB	GWB	GWB	GWB	ACT-1	(10'-0") (1)	
		———	STAIN	SP PNT 10	SP PNT 10	SP PNT 10	SP PNT 10	2X2		
111A	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
111B	IDEA LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
112A	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
112B	IDEA LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
113A	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
113B	IDEA LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
114A	OFFICE *	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS.
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
114B	IDEA LAB *	EXIST. CONCRETE	RUBBER**	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS. ** PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
115A	OFFICE *	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS.
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
115B	IDEA LAB *	EXIST. CONCRETE	RUBBER**	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS. ** PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
116A	OFFICE *	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS.
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
116B	IDEA LAB *	EXIST. CONCRETE	RUBBER**	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS. ** PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
117A	OFFICE *	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS.
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
117B	IDEA LAB *	EXIST. CONCRETE	RUBBER**	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS. ** PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
118A	OFFICE	CPT-2	RUBBER	GWB	GWB	———	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	———	PNT-1	2X2 / 1X2		
118B	CHEMISTRY LAB *	EXIST. CONCRETE	RUBBER**	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS. ** PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2		
119A	OFFICE	CPT-2	RUBBER	———	GWB	———	GWB	ACT-1	10'-8"	
		———	———	———	PNT-3	———	PNT-1	2X2		
119B	SPUTTER LAB *	EXIST. CONCRETE	RUBBER**	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* BASE BID 2: DELETE CARPET, BASE, ACT & FINISH PAINT. PROVIDE PRIME COAT ONLY AT WALLS. ** PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		

(1)

FINISH SCHEDULE - FIRST FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	PLAN WALLS NORTH	PLAN WALLS EAST	PLAN WALLS SOUTH	PLAN WALLS WEST	CEILING MATL.	CEILING HGT.	REMARKS
120A	OFFICE	CPT-2	RUBBER	———	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	———	PNT-3	PNT-1	PNT-1	2X2		
120B	PM-IRAS	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-5	PNT-2	PNT-3	2X2 / 1X2		
121	BREAKOUT	(3) VCT	WOOD	GWB	GWB	GWB	GWB	ACT-1	10'-8"	* SEE PAINT PLAN
			STAIN	SP PNT-13*	SP PNT-11*	SP PNT-11*	SP PNT-13 & SP PNT-14*	2X2		
122	ELECTRICAL	EXIST. CONCRETE	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	STRUCTURE	±18'-2"	
		———	———	EXIST. PNT*	EXIST. PNT*	EXIST. PNT*	EXIST. PNT*	———		
123	CHASE	EXIST. CONCRETE	———	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	———	———	———	———	———		
123A	CHASE	EXIST. CONCRETE	———	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	———	———	———	———	———		
124	STORAGE	EXIST. CONCRETE	RUBBER	GWB	GWB	EXIST. GWB	EXIST. GWB	ACT	10'-8"	
		SEAL	———	PNT-6	PNT-6	PNT-6	PNT-6	2X2		
125	CHASE	EXIST. CONCRETE	———	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	———	———	———	———	———		
125A	CHASE	EXIST. CONCRETE	———	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	———	———	———	———	———		
126	IDEA LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-3	PNT-2	PNT-5	2X2 / 1X2		
127	IDEA LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-3	PNT-2	PNT-5	2X2 / 1X2		
128	IDEA LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-3	PNT-2	PNT-5	2X2 / 1X2		
129	CHARACTERIZATION LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-3	PNT-2	PNT-5	2X2 / 1X2		
130	WET CHEMISTRY LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-3	PNT-2	PNT-5	2X2 / 1X2		
131	HT LAB	EXIST. CONCRETE	RUBBER*	GWB	GWB	GWB	GWB	ACT-2	10'-8"	* PROVIDE RUBBER BASE AT FIXED LAB CASEWORK TOE AREA
		SEAL	———	PNT-2	PNT-3	PNT-2	PNT-5	2X2 / 1X2		
132	CHASE	EXIST. CONCRETE	———	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	EXIST. GWB*	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	——— (2)	———	———	———	———	———		
133	CONFERENCE	CPT-3	RUBBER	GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	
		———	———	PNT-3	PNT-1	PNT-1	PNT-1	2X2/PAINT		
134	DATA	EXIST. CONCRETE	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	STRUCTURE	±18'-2"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PNT*	EXIST. PNT*	EXIST. PNT*	EXIST. PNT*	———		
135	DIRECTOR'S OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	(2) ———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
136	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
137	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
138	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
139	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
140	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
141	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
142	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
143	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
144	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
145	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		
146	OFFICE	CPT-2	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PNT-1	PNT-3	PNT-1	PNT-1	2X2		

innovista
University of South Carolina

STATE PROJECT NO.: H27-6071-LC

Beta Reseach
Facility Construction

HORIZON I
IDEA & SEAEPC
LAB UPFIT
(First Floor)

Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	10.06.10	ADDENDUM NO. 03
2	04.26.11	CONSTRUCTION BULLETIN NO. 01
3	09.16.11	CONSTRUCTION BULLETIN NO. 11
4	03.19.12	CONTRACTOR AS-BUILT NOTES

ABBREVIATIONS

ACT-1	ACOUSTICAL CEILING TILE
ACT-2	ACOUSTICAL CEILING TILE W/ MYLAR FACE
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
EXIST.	EXISTING
GWB	GYPSUM WALLBOARD
PNT	PAINT
PT	PORCELAIN TILE
SP PNT	SPECIALTY PAINT SYSTEM
VCT	VINYL COMPOSITION TILE
VINYL	VINYL WALL COVERING

PAINTING NOTES

1. PROVIDE LEVEL 5 FINISH AT GYPSUM WALLBOARD SURFACES SCHEDULED TO RECEIVE SPECIALTY PAINT FINISH

RECORD DRAWINGS:

THESE "RECORD DRAWINGS" HAVE BEEN PREPARED BY THE ARCHITECT/ENGINEER USING ORIGINAL CONSTRUCTION DOCUMENTS AND INCORPORATING THE FIELD CHANGES AS SUPPLIED BY THE CONTRACTOR AS WELL AS OTHER REVISIONS MADE DURING THE CONSTRUCTION PHASE.

WATSON TATE SAVORY

Finish Schedule

FOR INFORMATION ONLY

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

I1.3 | A7.1

WTS NO.: 1003 | 19 MARCH 2012

RECORD DRAWINGS

FINISH SCHEDULE - NANOPOLYMER LABS SECOND FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	PLAN WALLS NORTH	PLAN WALLS EAST	PLAN WALLS SOUTH	PLAN WALLS WEST	CEILING MATL.	CEILING HGT.	REMARKS
ST201	STAIR 1	EXIST. PRECAST	———	EXIST.	EXIST.	EXIST.	EXIST.	———	———	
		———	———	———	———	———	———	———		
ST02	STAIR 2	EXIST. RUBBER	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
ST03	STAIR 3	EXIST. RUBBER	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
H201	ELEVATOR LOBBY	EXIST. PT	EXIST. WOOD	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST.ACT/EXIST.GWB	10'-8/ 12'-0"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	EXIST. STAIN *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. 2X2/PAINT *		
H202	CORRIDOR	CPT	WOOD	GWB	EXIST. GWB	GWB	GWB	ACT-1/GWB	10'-8"	* SPECIALTY PAINT
		———	STAIN	SP. PAINT *	SP. PAINT *	SP. PAINT *	SP. PAINT *	2X2		
H203	CORRIDOR	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	* SPECIALTY PAINT
		———	———	SP. PAINT *	SP. PAINT *	SP. PAINT *	SP. PAINT *	2X2 / PAINT		
H204	CORRIDOR	CPT/VCT **	RUBBER	EXIST. GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	* SPECIALTY PAINT ** VCT AT ELEVATOR ENTRANCE
		———	———	SP. PAINT *	SP. PAINT *	SP. PAINT *	SP. PAINT *	2X2 / PAINT		
H205	CORRIDOR	CPT	RUBBER *	EXIST. GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	* SPECIALTY PAINT
		———	———	SP. PAINT *	SP. PAINT *	SP. PAINT *	SP. PAINT *	2X2 / PAINT		
H206	SERVICE CORRIDOR	CONCRETE	RUBBER	GWB	GWB	GWB	GWB	STRUCTURE	———	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	———		
H207	SERVICE CORRIDOR	CONCRETE	RUBBER	GWB	GWB	GWB	GWB	STRUCTURE	———	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	———		
V201	VESTIBULE	CPT	WOOD	GWB	GWB	GWB	GWB	ACT-1	9'-4"	* SPECIALTY PAINT
		———	STAIN	SP. PAINT *	SP. PAINT *	SP. PAINT *	SP. PAINT *	2X2		
EV01	ELEVATOR 01	EXISTING ELEVATOR SHAFT AND CAB								
EV02	FUTURE ELEVATOR 2	EXISTING SHAFT FOR FUTURE ELEVATOR CAB								
EV03	ELEVATOR 03	EXISTING ELEVATOR SHAFT & CAB								
201	CONFERENCE 1	CPT	WOOD	GWB	GWB	GWB	OPERABLE PARTITION	ACT-1/GWB	10'-8"/ 12'-0"	
		———	STAIN	PAINT	PAINT	PAINT	WOOD	2X2 / PAINT		
202	CONFERENCE 2	CPT	WOOD	OPERABLE PARTITION	GWB	GWB	GWB	ACT-1/GWB	10'-8"/ 12'-0"	
		———	STAIN	WOOD	PAINT	PAINT	PAINT	2X2 / PAINT		
203	BREAKROOM	VCT	RUBBER	GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2 / PAINT		
204	MEN	PT	CT	CT *	CT *	CT *	CT *	ACT-1/GWB	9'-4"	* 8x8 CT TYPICAL; 2x2 AT SINK WALL (SEE SHEET A7.2 FOR ELEVATIONS)
		———	———	———	———	———	———	2X2 / PAINT		
205	WOMEN	PT	CT	CT *	CT *	CT *	CT *	ACT-1/GWB	9'-4"	* 8x8 CT TYPICAL; 2x2 AT SINK WALL (SEE SHEET A7.2 FOR ELEVATIONS)
		———	———	———	———	———	———	2X2 / PAINT		
206	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
207	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
208	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
209	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
210	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
211	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
212	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
213	OFFICE	CPT	RUBBER	GWB	GWB	EXIST. GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
214	ELECTRICAL	EXIST. CONCRETE	RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. STRUCTURE	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
215	RAFT SYNTHESIS LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
216	SYNTHESIS LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
217	FUEL CELL SYNTHESIS LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
218	FUEL CELL CHARACTERIZATION LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
219	FUEL CELL LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
220	UPS AREA	EXIST. CONCRETE	RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	EXIST. STRUCTURE	———	
		SEAL	———	PAINT	PAINT	PAINT	———	———		
221	JANITOR	EXIST. CONCRETE	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. ACT	10'-8"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	2X2		
222	LABORATORY	EXIST. CONCRETE	RUBBER	EXIST. GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
223	CHARACTERIZATION LAB 1	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
224	CHARACTERIZATION LAB 2	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
225	SYNTHESIS LAB 1	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
226	SYNTHESIS LAB 2	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
227	RAFT NANOSTRUCTURE LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
228	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
229	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
230	DATA	EXIST. CONCRETE	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. STRUCTURE	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
231	BREAKOUT	CPT	WOOD	GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	* SPECIALTY PAINT
		———	———	SP. PAINT *	SP. PAINT *	SP. PAINT *	SP. PAINT *	2X2 / PAINT		

FINISH SCHEDULE - NANOPOLYMER LABS SECOND FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	PLAN WALLS NORTH	PLAN WALLS EAST	PLAN WALLS SOUTH	PLAN WALLS WEST	CEILING MATL.	CEILING HGT.	REMARKS
232	DIRECTOR'S OFFICE	CPT	WOOD	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	STAIN	PAINT	PAINT	PAINT	PAINT	2X2		
233	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
234	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
235	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
236	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
237	COPY/WORKROOM	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
238	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
239	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
240	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
241	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		

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University of South Carolina

STATE PROJECT NO.: H27-6022-LC-B

Beta Reseach
Facility Construction

HORIZON I
NANOPOLYMER
LAB UPFIT

Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	2.27.09	ISSUED FOR BIDDING
2	3.12.09	ADDENDUM 01
3	8.04.09	CONSTRUCTION BULLETIN 16
4	10.13.09	CONSTRUCTION BULLETIN 23

ABBREVIATIONS

ACT-1	ACOUSTICAL CEILING TILE
ACT-2	ACOUSTICAL CEILING TILE W/ MYLAR FACE
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
EXIST.	EXISTING
GWB	GYPSUM WALLBOARD
PT	PORCELAIN TILE
SP. PAINT	SPECIALTY PAINT SYSTEM
VCT	VINYL COMPOSITION TILE
VINYL	VINYL WALL COVERING

GENERAL NOTES

1. PROVIDE SPECIALTY PAINT AS SPECIFIED AT SECTION 09941 AT GYPSUM WALLBOARD IN PUBLIC CORRIDORS. SEE FINISH SCHEDULE.

RECORD DRAWINGS:

THESE "RECORD DRAWINGS" HAVE BEEN PREPARED BY THE ARCHITECT/ENGINEER USING ORIGINAL CONSTRUCTION DOCUMENTS AND INCORPORATING THE FIELD CHANGES AS SUPPLIED BY THE CONTRACTOR AS WELL AS OTHER REVISIONS MADE DURING THE CONSTRUCTION PHASE.

WATSON TATE SAVORY

Finish Schedule

FOR INFORMATION ONLY

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

I 2.3 | A7.1

WTS NO.: 0806 | 27 FEBRUARY 2009

CONSTRUCTION DOCUMENTS

A7.1 FINISH SCHEDULE 6/11/2011 12:40:35 PM

FINISH SCHEDULE - THIRD FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	PLAN WALLS NORTH	PLAN WALLS EAST	PLAN WALLS SOUTH	PLAN WALLS WEST	CEILING MATL.	CEILING HGT.	REMARKS
ST301	STAIR 1	EXIST. PRECAST	———	EXIST. STEEL/GLASS	EXIST. STEEL/GLASS	EXIST. STEEL/GLASS	EXIST. STEEL/GLASS	———	———	
		———	———	———	———	———	———	———		
ST302	STAIR 2	EXIST. RUBBER	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
ST303	STAIR 3	EXIST. RUBBER	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
H301	ELEVATOR LOBBY	EXIST. PT	EXIST. WOOD	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST.ACT/EXIST.GWB	10'-8"/ 12'-0"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	EXIST. STAIN *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. SP. PAINT *	EXIST. 2X2/PAINT *		
H302	CORRIDOR	CPT	WOOD	GWB	EXIST. GWB	GWB	GWB	ACT-1/GWB	10'-8"	
		———	STAIN	SP. PAINT	SP. PAINT	SP. PAINT	SP. PAINT	2X2		
H303	CORRIDOR	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	
		———	———	SP. PAINT	SP. PAINT	SP. PAINT	SP. PAINT	2X2 / PAINT		
H304	CORRIDOR	CPT/VCT *	RUBBER	EXIST. GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	* VCT AT ELEVATOR ENTRANCE
		———	———	SP. PAINT	SP. PAINT	SP. PAINT	SP. PAINT	2X2 / PAINT		
H305	CORRIDOR	CPT	RUBBER *	EXIST. GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	
		———	———	SP. PAINT	SP. PAINT	SP. PAINT	SP. PAINT	2X2 / PAINT		
H306	SERVICE CORRIDOR	CONCRETE	RUBBER	GWB	GWB	GWB	GWB	STRUCTURE	———	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	———		
H307	SERVICE CORRIDOR	CONCRETE	RUBBER	GWB	GWB	GWB	GWB	STRUCTURE	———	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	———		
V301	VESTIBULE	CPT	WOOD	GWB	GWB	GWB	GWB	ACT-1	9'-4"	
		———	STAIN	SP. PAINT	SP. PAINT	SP. PAINT	SP. PAINT	2X2		
EV01	ELEVATOR 01	EXISTING ELEVATOR SHAFT AND CAB								
EV02	FUTURE ELEVATOR 2	EXISTING SHAFT FOR FUTURE ELEVATOR CAB								
EV03	ELEVATOR 03	EXISTING ELEVATOR SHAFT & CAB								
301	CONFERENCE 1	CPT	WOOD	GWB	GWB	GWB	OPERABLE PARTITION	ACT-1/GWB	10'-8"/ 12'-0"	
		———	STAIN	SP. PAINT	SP. PAINT	SP. PAINT	WOOD	2X2 / PAINT		
302	CONFERENCE 2	CPT	WOOD	OPERABLE PARTITION	GWB	GWB	GWB	ACT-1/GWB	10'-8"/ 12'-0"	
		———	STAIN	WOOD	SP. PAINT	SP. PAINT	SP. PAINT	2X2 / PAINT		
303	BREAKROOM	VCT	RUBBER	GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2 / PAINT		
304	MEN	PT	PT	CT*	CT*	CT*	CT*	ACT-1/GWB	9'-4"	* 8X8 CT TYPICAL; 2X2 AT SINK WALL (SEE SHEET A7.2 FOR ELEVATIONS)
		———	———	———	———	———	———	2X2 / PAINT		
305	WOMEN	PT	PT	CT*	CT*	CT*	CT*	ACT-1/GWB	9'-4"	* 8X8 CT TYPICAL; 2X2 AT SINK WALL (SEE SHEET A7.2 FOR ELEVATIONS)
		———	———	———	———	———	———	2X2 / PAINT		
306	COMPUTING & ANALYSIS	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
307	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
308	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
309	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
310	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
311	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
312	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
313	ELECTRICAL	EXIST. CONCRETE	RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	STRUCTURE	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		SEAL	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		
314	POWDER PROCESSING LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	EXIST. GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
315	MATERIAL AND CELL FABRICATION LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
316	SINTERING FURNACE LAB, CURLING AND TREATING	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
317	COATINGS LAB *	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
318	CATALYSIS AND REFORMING LAB *	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
319	HIGH TEMPERATURE ELECTROLYSIS LAB *	EXIST. CONCRETE	RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	———	EXIST. STRUCTURE	———	
		SEAL	———	PAINT	PAINT	PAINT	———	———		
320	MECHANICAL AND ELECTRICAL	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	EXIST. STRUCTURE	10'-8"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	———		
321	STORAGE	EXIST. CONCRETE	RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	GWB	ACT-1	10'-8"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2		
322	JANITOR	EXIST. CONCRETE	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. ACT	10'-8"	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		———	———	PAINT	PAINT	PAINT	PAINT	———		
323	MECHANICAL BEHAVIOR LAB *	EXIST. CONCRETE	RUBBER	EXIST. GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
324	PHYSICAL PROPERTY LAB *	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
325	SYSTEMS ASSEMBLY & TEST LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
326A	SPECIMEN IMAGING LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
326B	SPECIMEN ANALYSIS	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
327	STACK AND EIS TEST LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
328	SOFC TEST LAB	EXIST. CONCRETE	RUBBER	GWB	GWB	GWB	EXIST. GWB	ACT-2	9'-4"	
		SEAL	———	PAINT	PAINT	PAINT	PAINT	2X2 / 1X2		
329	OFFICE	CPT	RUBBER	EXIST. GWB	GWB	GWB	GWB	ACT-1	9'-4"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
330	COPIER/WORK ROOM	CPT	RUBBER	EXIST. GWB	EXIST. GWB	GWB	GWB	ACT-1	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
331	DATA	EXIST. CONCRETE	EXIST. RUBBER	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. GWB	EXIST. STRUCTURE	———	* TOUCH UP OR REPAINT AFTER CONSTRUCTION AS REQD.
		SEAL	———	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	EXIST. PAINT *	———		

FINISH SCHEDULE - THIRD FLOOR

ROOM NO.	ROOM NAME	FLOOR	BASE	PLAN WALLS NORTH	PLAN WALLS EAST	PLAN WALLS SOUTH	PLAN WALLS WEST	CEILING MATL.	CEILING HGT.	REMARKS
332	BREAKOUT	CPT	WOOD	GWB	GWB	GWB	GWB	ACT-1/GWB	10'-8"	
		———	———	SP. PAINT	SP. PAINT	SP. PAINT	SP. PAINT	2X2 / PAINT		
333	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
334	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
335	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
336	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
337	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
338	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
339	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
340	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		
341	OFFICE	CPT	RUBBER	GWB	GWB	GWB	GWB	ACT	10'-8"	
		———	———	PAINT	PAINT	PAINT	PAINT	2X2		

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STATE PROJECT NO.: H27-6022-LC-C

Beta Research Facility Construction

SOLID OXIDE FUEL CELL LAB UPFIT

Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	10.13.09	CONSTRUCTION BULLETIN 12

ABBREVIATIONS

ACT-1	ACOUSTICAL CEILING TILE
ACT-2	ACOUSTICAL CEILING TILE W/ MYLAR FACE
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
EXIST.	EXISTING
GWB	GYPSUM WALLBOARD
PT	PORCELAIN TILE
SP. PAINT	SPECIALTY PAINT SYSTEM
VCT	VINYL COMPOSITION TILE
VINYL	VINYL WALL COVERING

GENERAL NOTES

1. PROVIDE SPECIALTY PAINT AS SPECIFIED AT SECTION 09941 AT GYPSUM WALLBOARD IN PUBLIC CORRIDORS AND CONFERENCE ROOMS. SEE FINISH SCHEDULE FOR LOCATIONS.

RECORD DRAWINGS:

THESE "RECORD DRAWINGS" HAVE BEEN PREPARED BY THE ARCHITECT/ENGINEER USING ORIGINAL CONSTRUCTION DOCUMENTS AND INCORPORATING THE FIELD CHANGES AS SUPPLIED BY THE CONTRACTOR AS WELL AS OTHER REVISIONS MADE DURING THE CONSTRUCTION PHASE.

WATSON TATE SAVORY

Finish Schedule

FOR INFORMATION ONLY

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

I3.3 | A7.1

WTS NO.: 0828 | 06 MAY 2009

CONSTRUCTION DOCUMENTS

A7.1 SCHEDULES 6/11/2011 12:38:16 PM

USC, Ground & 4th Floors Upfit

ADDENDUM 2

7/25/2013

SST revisions to the Bid Documents and responses to questions & RFIs:

REVISIONS TO THE PROJECT MANUAL:

1. SECTION 11600 – LABORATORY EQUIPMENT – GENERAL REQUIREMENTS
    A. Revise Equipment Schedule – Sorted by Number, Equipment Number FH-021A, to delete reference "For Hydrofluoric Acid" from the Special Considerations column.
    B. Revise Equipment Schedule – Sorted by Number, Equipment Number FH-021B, to delete reference "For Hydrofluoric Acid" from the Special Considerations column.
    C. Revise Equipment Schedule – Sorted by Number, Equipment Number EQ-080, Installation column to read: "C/C".
    D. Revise Equipment Schedule – Sorted by Space, Room 026, Equipment Number EQ-001, Quantity column to read: "5".
2. SECTION 12309 – LABORATORY SERVICE FIXTURES
    A. Revise paragraph 2.04.A.1 to add the following: "Wall-Mounted Fixtures with removable serrated hose ends, Single Outlet Turret , Model No. L4200-158WSA".
3. SECTION 12340 – LABORATORY CASEWORK – GENERAL REQUIREMENTS
    A. Revise paragraph 1.08 MOCK-UP to add the following:
    "E. Mock-up scope shall include one lab, prep room or portion of a lab, and shall incorporate the basic elements of a lab including, but not limited, to a sink and associated counter area, base cabinets with drawers and doors, knee space, wall mounted cabinet, wall mounted shelf, flammable and acid cabinets and fume hood with all necessary surface fixtures and service connection components to make the lab function. Mock-up shall include one cabinet in each color finish selected and approved via sample process.
    F. Mock-up location shall be either in a conditioned trailer remaining on site throughout the project (provided by the contractor) or in a conditioned room within the new facility agreed upon by the Owner, Architect, Contractor and Lab Casework & Equipment Provider / Installer. Mock-up shall remain in place the duration of the project and if all components are acceptable, is permitted to become a part of the completed work. If the mock-up is located within a trailer, the components, if approved, may be relocated in the facility at a time approved by the Architect".
    B. Revise paragraph 2.03.E.5.A, to replace reference "5-disc" with "pin".
4. SECTION 12346 – WOOD LABORATORY CASEWORK
    A. Prior Approval: CiF Lab Solutions is an acceptable manufacturer as provided. They meet all specifications. Refer to specification section 11600.2.1.A that states: "The Naming of manufacturer(s) and designation of product is for the purpose of identifying and

describing required product and not to limit competition. Other manufacturers capable of producing the same appearance and having the same quality, durability, and performance may be proposed for use on this project subject to Architect's approval, unless noted otherwise. Other approved manufacturers are responsible for all adjustments required to fit their products to the work at no additional cost.

B. Revise paragraph 2.03.A.3 to add:

"A. Tables with electrical outlets and data outlet at the apron shall be pre-wired and provided with 8 ft. cord and plug for easy relocation. Electrical fixtures shall be 1/60/115V. All outlets on the table apron shall be complete with enclosure boxes, receptacle and cover plates. Cover plates shall be stainless steel. Tables shall be provided with cleats so that the 8' cords can be wrapped up when not in use. Electrical and data outlet boxes shall be concealed and protected to prevent accidental contact of User's knees with electrical connections".

C. Revise paragraph 2.03.C.1 to read: "12" Island Structural Modules shall be made from cold-rolled steel with a corrosion and chemical resistant finish as specified in 12340".

REVISIONS TO THE PROJECT DRAWINGS:

1. Replace drawings in the original bid document set with revised drawings that are attached to this addendum:

Drawing Q0.1	Casework Types	1 Sheet
Drawing Q2.0a	Enlarged Lab Plan (Ground Floor)	1 Sheet
Drawing Q4.2	Metal Casework Details and Mounting Heights	1 Sheet

RESPONSES TO THE BIDDER QUESTIONS & RFIs:

1. **Campbell Rhea RFI, dated 7/18/2013**:

1. Who is responsible for the overhead service carriers? The items are not covered in any specifications that I can find. OHSC are not detailed either for configuration, etc. The floor plan and elevations are showing units dashed in. Is the mechanical contractors providing these items?

OHSC details are indicated in sheet A6.5 and S1.0.

2. Section 12345 – Item FH-019 - AirClean Systems notes AC8030TE is not available with scrubber as noted by specification, equipment list, and drawings. Will it be acceptable to provide the unit without the scrubber?

NOT ACCEPTABLE without scrubber. The fume hood cut sheets and manufacturer website indicate "Mistline Scrubbers can usually be incorporated if any water-soluble Acid/Alkali are being used". Provide fume hood with scrubber as specified.

3. Section 12345 – FH-019 – Floor plan notes R04 & R03 base units but elevation noting (2) R08 units. AirClean is noting that the unit would be provided with (1) 8' long base unit. Is this acceptable?

Elevation drawing is correct. Will revise plans to indicate (2) R08 units. It is acceptable to provide (1) 8 ft long base unit.

4. Room 032 floor plan – Indicates 4' x 5' performing tables with locking casters (NIC) but elevations and floor plan still show (2) T05W as though the items are still required. Are (2) T05W tables @ 48"x60" to be provided for this room?

   Tables are required. Provide (2) T05W tables @ 48" x 60". Will revise plan to remove (NIC).

5. Equipment list – Sorted by Space – EQ-004 is noting a Grainger 9MDJ5 unit but this unit does not seem to meet specifications. Is this a correct part that can be provided?

   Provide per specifications. Other manufacturers capable of producing the same appearance and having the same quality and performance specified may propose for use on this project.

6. Will the plumber be responsible for the stainless steel sinks? (Ref. S11 – S14). The 12340 section does not cover stainless steel sinks except for the sink strainer & tailpiece which is noted by division 15.

   Sink type S11 is by MEP (See MEP drawings & specs). Sink types S12 & S13 are by the casework contractor. Sink type S14 is not used.

7. What finish is required for the ColorTech fixtures in section 12309? None is indicated. Spec notes only "polyester powder coat".

   Provide polyester powder coat in any of manufacturer's standard colors.

8. Section 12309 Lab Service Fixtures – the specifications cover deck mounted fixtures, female quick disconnects for ADA cart, fume hood fixtures, safety showers, and deck mounted eyewashes. Will the plumber be responsible for the wall mounted service fixtures?

   Wall mounted specialty gas fixtures are by the specialty gas contractor. Cold water, hose bib, and chilled water supply & return fixtures are by the plumber. Compressed Air is by casework contractor.

9. Equipment List – Sorted by Space – Rm #026, EQ-001 Snorkel, Quantity noted as (4). Sheet Q2.0a floor plan for the room shows (5). Please advise how many are required. (2-Above T05 tables, (1) each in 3 corners of room)

   5 are required. Will revise equipment list to indicate correct quantity.

2. **Hogan Construction Group**:

1. In doing a takeoff for the casework I noticed that Q2.4b seems to be missing… I also did not see it in the Addendum 1 drawings… please clarify?

   Q2.4b lab casework sheet does not exist. It was never issued during the entire design phase of the project. There are 2 lab casework sheets for the Ground Floor: Q2.0a & Q2.0b. There is 1 lab casework sheet for the Fourth Floor: Q2.4a.

2. I noticed on the equipment schedule that a jib crane is to be provided and installed by the owner, but there is a specification that seems to indicate it is to be supplied and installed by the GC in spec section 05500- Metal Fabrications in Part 2.1C. Could you clarify what we will be responsible for please?

   It is by GC. Will edit the equipment schedule accordingly.

3. NyCom RFI:

1. **12340 1.08 Mock up** requires a laboratory furniture mock up; however, no mock is identified in the drawings or noted in Division 1. Please confirm that no mock up is required on this project.

   Lab mock-up is required. Mock-up scope shall include one lab, prep room or portion of a lab, and shall incorporate the basic elements of a lab including, but not limited, to a sink and associated counter area, base cabinets with drawers and doors, knee space, wall mounted cabinet, wall mounted shelf, flammable and acid cabinets and fume hood with all necessary surface fixtures and service connection components to make the lab function. Mock-up shall include one cabinet in each color finish selected and approved via sample process. Mock-up location shall be either in a conditioned trailer remaining on site throughout the project (provided by the contractor) or in a conditioned room within the new facility agreed upon by the Owner, Architect, Contractor and Lab Casework & Equipment Provider / Installer. Mock-up shall remain in place the duration of the project and if all components are acceptable, is permitted to become a part of the completed work. If the mock-up is located within a trailer, the components, if approved, may be relocated in the facility at a time approved by the Architect.

2. **12346 C Island Bench Structural Modules** specifies a 6" island structure extending below the worksurface and bolted to the floor. Island detail H/Q4.2 sections a 12" island structure to the floor. Please confirm that 12" island cores to the floor are required as detailed.

   12" island cores are required as detailed.

3. 12346 3.01 C.2 requires cabinets to have integral leveling devices in the cabinet's bottom corners. Please approve traditional wood shims under the cabinet as an acceptable leveling device.

   Traditional wood shims under wood cabinets are approved.

4. **12345 2.05 B.5** requires 6 horizontal sliding sashes on both sides with sashes on opposing faces to be interlocked so that only one side can be opened at a time. There are too many variations of sash arrangement to effectively interlock these horizontal sashes. Please confirm that horizontal sashes on do not need an interlock.

   It is our understanding that interlock is required on opposite horizontal sashes so that the hood can only be operated with one side open at a time for proper containment.

5. **11600 Equipment List** states FH-021A and FH-021B Pass Through Walk-in Chemical Hoods for "hydrofluoric acid"; however, specification 12345 2.05 Pass-through walk-in chemical fume hoods does not list this requirement. Note, the 8' polypropylene hood FH-019

with scrubber notes “hydrofluoric acid”. Please confirm the pass-through walk-in hoods do not require provisions for hydrofluoric acid.

FH-019, Polypropylene hood with scrubber requires revisions for Hydrofluoric Acid as specified. FH-021A & FH-021B, Pass-through walk-in chemical hoods DO NOT require revisions for Hydrofluoric Acid.

4. **China Construction RFI:**

Item 3: Spec section 12345 lists a solvent storage cabinet. I don’t see any on the drawings. Is this cabinet the R03 cabinet tagged “Flammable Cabinet” on plan page Q0.1? If not, what is the spec for the R03 cabinet and are there any solvent storage cabinets required?

R03 is Flammable Cabinet as indicated on sheet Q0.1. There are many R03 cabinets in the project on both floors and their locations are clearly indicated on plan sheets Q2.0A, Q2.0B, & Q2.4A and on their related elevation sheets. Provide R03 cabinets as specified.

Item 4: Spec section 12345, section 2.05, paragraph 1 lists an Airclean polypropylene hood AC8030TE with scrubber. They do not make the AC8030TE with a scrubber. Is the standard AC8030TE without a scrubber acceptable?

NOT ACCEPTABLE without scrubber. The fume hood cut sheets and manufacturer website indicate “Mistline Scrubbers can usually be incorporated if any water-soluble Acid/Alkali are being used”. Manufacturer considers the scrubber as an option that can be added to any fume hood if required. Provide fume hood with scrubber as specified.

5. **Campbell Rhea RFI, dated 7/24/2013**:

1. Sheet Q4.2 – Left hand corner of sheet noting “Steel Casework Systems – Stainless Steel Floor-Mounted Base Cabinets”. Please confirm all casework is to be wood veneer as noted by specifications 12346 or painted metal per specifications 12345. Details are also showing inset type of casework.

   All casework is to be wood veneer as noted in specification 12346, or painted metal as noted in specification 12345. Will revise sheet noting on left hand corner to read: “Metal Casework System – Metal Floor-Mounted Base Cabinets”.

2. Section 12346 – 2.03 A #1 – Style is described as “Casework shall be maple, square edge style construction as specified herein. Casework shall be full overlay construction where the door and drawers are routed to overlap the cabinet face frame with a square edge.” Is a front face frame required? Campbellrhea casework is not routed to overlap the cabinet face (as detailed on Q4.1) but rest on the cabinet front in a flush overlay style. Only the doors are routed for hinges to achieve a consistent flush overlay.

   Front face frame is NOT required. Routing is NOT required. Campbell Rhea casework description is acceptable.

3. Section 12346 – 2.03 D#1 noting wood shelves for Wall Mounted shelving systems. Detail 8/Q4.2 noting “stainless steel shelves”. Detail 9/Q4.2 noting “adjustable metal shelves”.

Please confirm W04 wall shelving requires veneer plywood shelving as specified & detailed per 15/Q4.1. If not the case, please indicate locations where details 8 & 9/Q4.2 may apply.

Shelving unit type W04 requires wood veneer plywood shelves as specified and detailed per 15/Q4.1. Will revise detail 8/Q4.2 and delete detail 9/Q4.2.

4. Sheet Q0.1 – W04 – This unit would seem to be similar to detail 15/Q4.1 when viewing front but elevation side views show detail similar to 9/Q4.2. Please confirm shelving configuration required. Will bookend brackets similar to detail 9/Q4.2 be acceptable for the W04? Note: Shelves are screwed to the brackets and do not require a lip on the brackets as specified or shown for detail 15/Q4.1.

   Shelving unit type W04 requires wood veneer plywood shelves as specified and detailed per 15/Q4.1. Lips on brackets are required as shown on the detail. Bookend brackets are not acceptable for W04. Bookend brackets are only acceptable for reagent shelf unit type R01.

5. Section 12340 – 2.03 E5 c #3 indicates locks to be “grand master keys for lock”. 5-disc tumbler locks can only be Master Keyed, not Grand master keyed. If grand master keying is required, locks need to be changed to 5-pin type.

   Provide Pin type locks to be Grand Master keyed. Will revise spec section to indicate pin type.

6. Who is responsible for providing the Overhead service carriers? Service fixtures on OHSC? They are not specified in any of the Division 12 specifications.

   OHSC details are indicated in sheet A6.5 and S1.0.

7. Who is responsible for panel mounted service fixtures on walls? Section 12309 Laboratory Service Fixtures specifications do not cover this type of service fixture neither by description nor model number. Will these be provided by Plumbing contractor or specialty gas sub-contractor?

   Wall mounted specialty gas fixtures are by the specialty gas contractor. Cold water, hose bib, and chilled water supply & return fixtures are by the plumbing contractor. Compressed Air is by casework contractor.

8. Section 12309 pg 4 Section 2.05 – Notes: All electrical outlets to be provided under Division 16-Electrical, unless noted otherwise. T07 table notes (2) electrical & (1) data box service. Is the lab casework responsible for the electrical/data receptacles in this unit?

   Yes. Casework contractor shall provide table type T07 as pre-wired table. Electrical outlets and data outlet at the apron shall be pre-wired and provided with 8 ft. cord and plug for easy relocation. Electrical fixtures shall be 1/60/115V. All outlets on the table apron shall be complete with enclosure boxes, receptacle and cover plates. Cover plates shall be stainless steel. Table shall be provided with cleats so that the 8' cords can be wrapped up when not in use. Electrical and data outlet boxes shall be concealed and protected to prevent accidental contact of User’s knees with electrical connections. Power extension cord is to be plugged into the power raceway above the table for power access. Data extension cord is to be plugged into the data outlet at wall above table.

9. Who is responsible for stainless steel sinks (Ref. S11-S13)? SS sinks are not covered under section 12340. Please confirm that section 12309 is still responsible for the fixtures at these sinks.

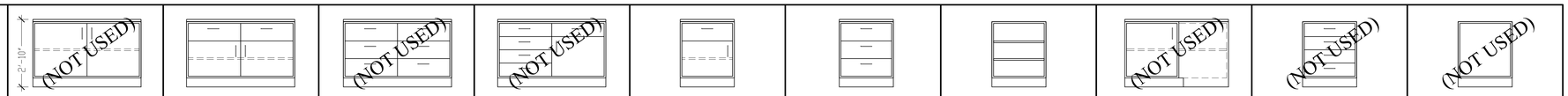
   Sink type S11 is by MEP (See MEP drawings & specs). Sink types S12 & S13 are by the casework contractor.

10. Per Addendum #1 – AirMaster Systems is approved as a manufacturer for the hoods. Upon my conversation this morning with AMS, they are unable to provide the adjustable baffle that is noted as required. Thus, AMS will not be able to meet specifications.

    Fume hoods shall be provided as specified with adjustable baffles.

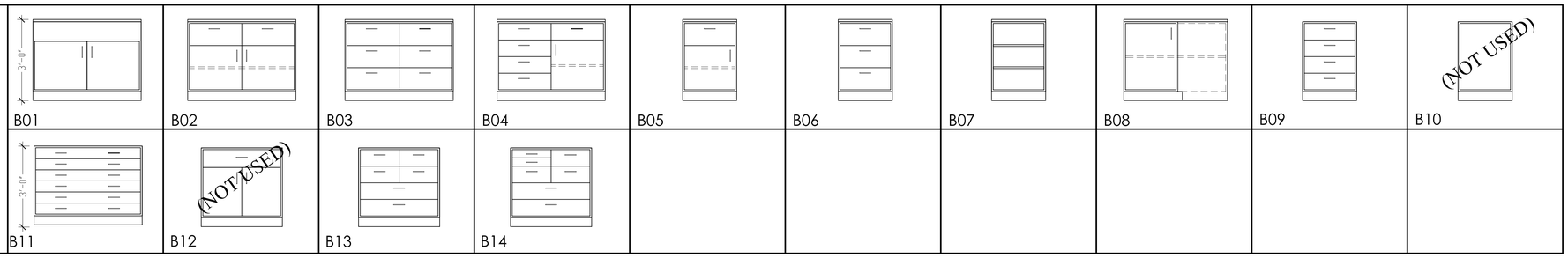
CASEWORK TYPES

TYPE: A — ADA HEIGHT BASE CABINET - 34" A.F.F.

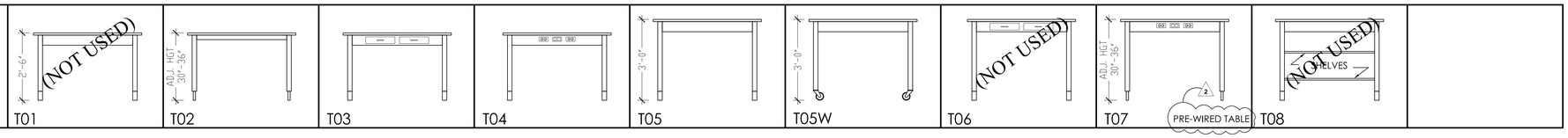


TYPE: D — SITTING HEIGHT BASE CABINET - 30" A.F.F.

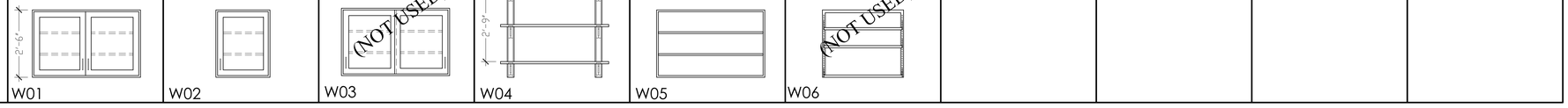
TYPE: B — STANDING HEIGHT BASE CABINET - 36" A.F.F.



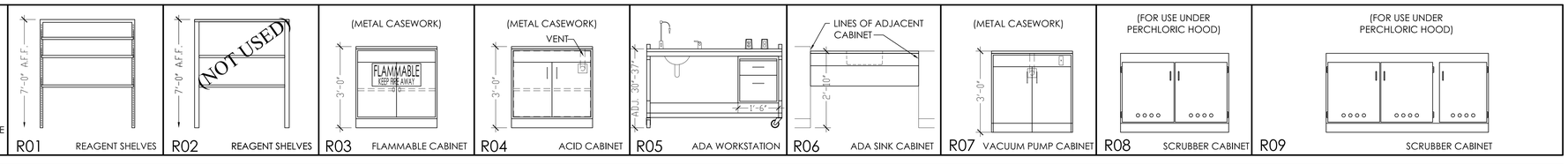
TYPE: T — TABLES



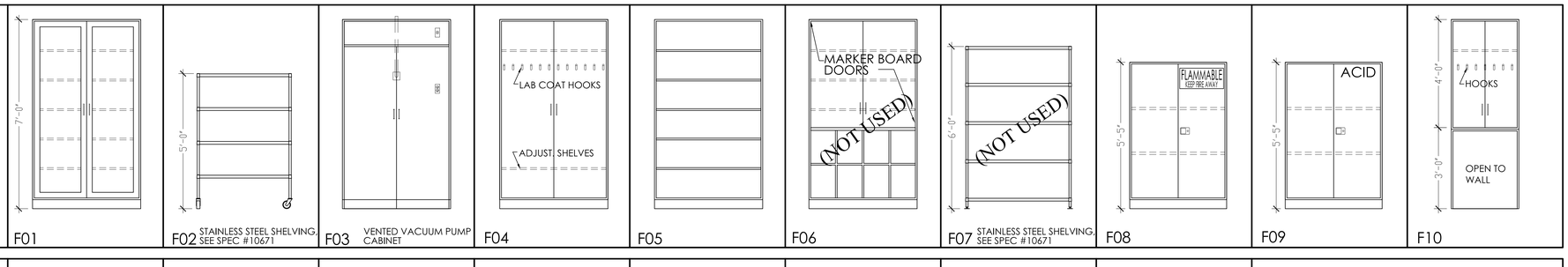
TYPE: W — WALL MOUNTED CABINETS & SHELVING



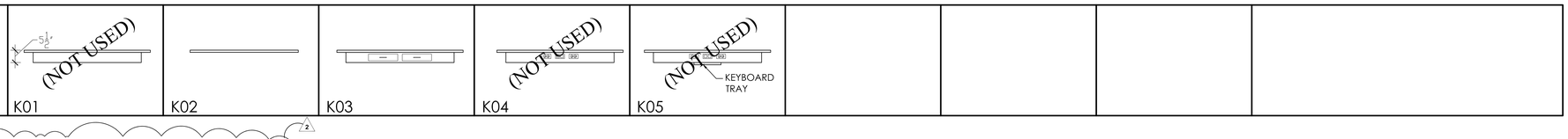
TYPE: R — REAGENT SHELVES & SPECIAL PURPOSE CASEWORK



TYPE: F — FULL HEIGHT CABINETS & SHELVES.



TYPE: K — APRONS AT KNEE SPACES



NOTES:

2

PRE-WIRED TABLES TYPE T07 FOR ELECTRICAL & DATA OUTLETS. PROVIDE ELECTRICAL AND DATA RECEPTACLES, RECEPTACLE BOXES, FACE PLATES & 8 FEET EXTENSION CORDS WITH PLUG. LEGS SHALL BE ADJUSTABLE HEIGHT LEGS BETWEEN 27" - 36" HIGH. ROUTE EXTENSION CORD TO THE BACK LEFT BOTTOM LEG OF TABLE.

0 1' 2' 3' 4' 5' 10'

SCALE: 1/2" = 1'- 0"

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STATE PROJECT NO.: H27-6081-AC

HORIZON I
GROUND & FOURTH
FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
2	7/25/13	ADDENDUM #2

sst planners
1501 Wilson Blvd.,
Suite 902
Arlington, VA. 22209
TEL: 703-875-8787
FAX: 703-875-8655
sstplanners.com
Laboratory Planners

WATSON TATE SAVORY

Casework Types

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

Q0.1

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

GENERAL NOTES:

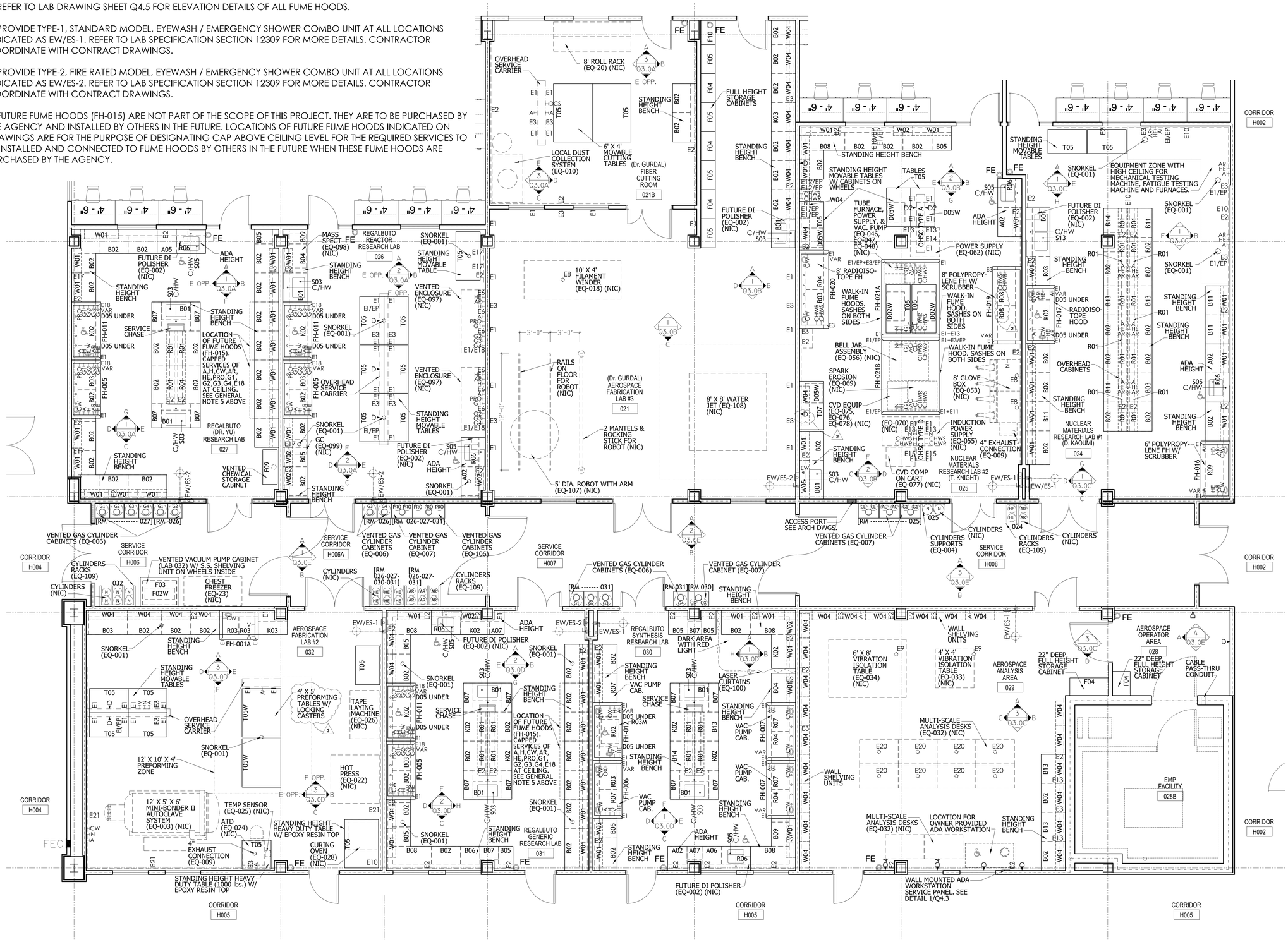
1. ELECTRICAL OUTLET ABBREVIATIONS ARE FOR INFORMATION ONLY. REFER TO ELECTRICAL DRAWINGS & SPECIFICATIONS FOR MORE DETAILED INFORMATION.

2. REFER TO LAB DRAWING SHEET Q4.5 FOR ELEVATION DETAILS OF ALL FUME HOODS.

3. PROVIDE TYPE-1, STANDARD MODEL, EYEWASH / EMERGENCY SHOWER COMBO UNIT AT ALL LOCATIONS INDICATED AS EW/ES-1. REFER TO LAB SPECIFICATION SECTION 12309 FOR MORE DETAILS. CONTRACTOR COORDINATE WITH CONTRACT DRAWINGS.

4. PROVIDE TYPE-2, FIRE RATED MODEL, EYEWASH / EMERGENCY SHOWER COMBO UNIT AT ALL LOCATIONS INDICATED AS EW/ES-2. REFER TO LAB SPECIFICATION SECTION 12309 FOR MORE DETAILS. CONTRACTOR COORDINATE WITH CONTRACT DRAWINGS.

5. FUTURE FUME HOODS (FH-015) ARE NOT PART OF THE SCOPE OF THIS PROJECT. THEY ARE TO BE PURCHASED BY THE AGENCY AND INSTALLED BY OTHERS IN THE FUTURE. LOCATIONS OF FUTURE FUME HOODS INDICATED ON DRAWINGS ARE FOR THE PURPOSE OF DESIGNATING CAP ABOVE CEILING LEVEL FOR THE REQUIRED SERVICES TO BE INSTALLED AND CONNECTED TO FUME HOODS BY OTHERS IN THE FUTURE WHEN THESE FUME HOODS ARE PURCHASED BY THE AGENCY.



1 Q2.0a ENLARGED GROUND FLOOR LAB PLAN
SCALE: 1/4" = 1'-0"

0 1' 2' 5' 10' 15' 20'
SCALE: 1/4" = 1'- 0"

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
2	7/25/13	ADDENDUM #2

SSTI planners
1501 Wilson Blvd., Suite 902
Arlington, VA. 22209
TEL: 703-875-8787
FAX: 703-875-8655
sstplanners.com
Laboratory Planners

WATSON TATE SAVORY

Enlarged Lab Plan (Ground Floor)

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

Q2.0a

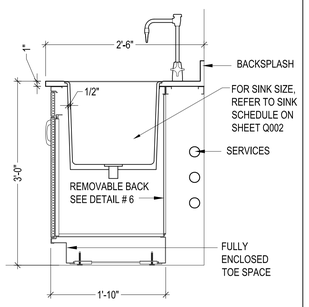
WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

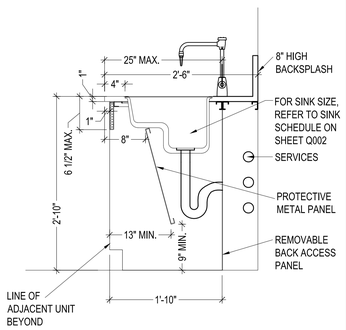
1– METAL CASEWORK SYSTEMS

SCALE: 1" = 1'–0"

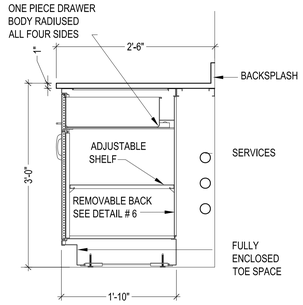
METAL FLOOR – MOUNTED BASE CABINETS



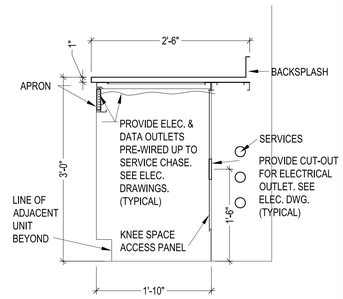
1 SECTION THROUGH OPEN SINK CABINET TYPE W01



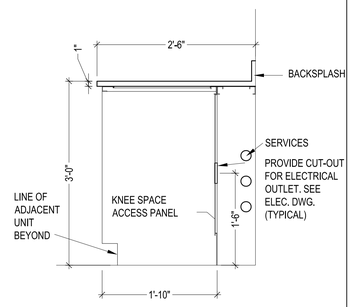
2 SECTION THROUGH ADA SINK WITH TIERED SINK TYPE R06



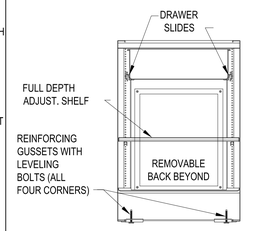
3 SECTION THROUGH BASE CABINET TYPICAL



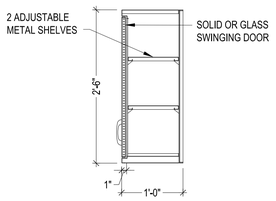
4 SECTION THROUGH KNEE SPACE WITH APRON



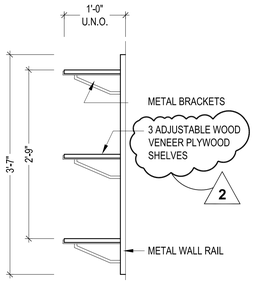
5 SECTION THROUGH KNEE SPACE WITHOUT APRON



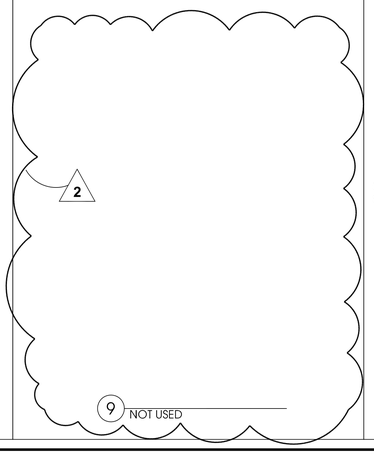
6 BASE CABINET TRANSVERSE SECTION



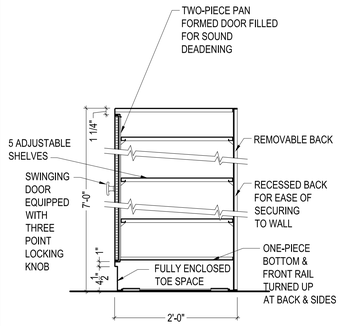
7 SECTION THROUGH WALL CABINET WITH SWINGING DOORS



8 SECTION THROUGH ADJUSTABLE SHELVES ON WALL STANDARDS

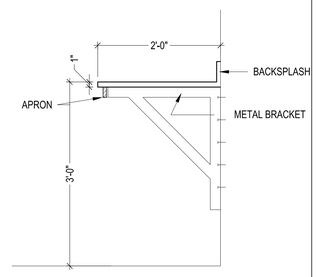


9 NOT USED



10 SECTION THROUGH FULL HEIGHT CABINET WITH SWINGING DOORS TYPE F08

11 NOT USED

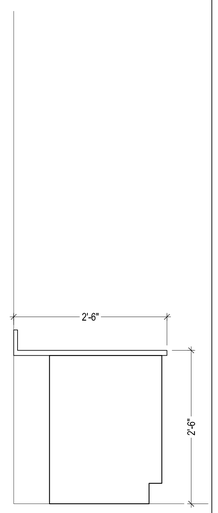


12 SECTION THROUGH KNEE SPACE WITH APRON

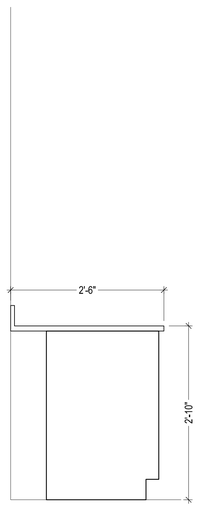
2– TYPICAL MOUNTING HEIGHT

NOTE: CONTRACTOR COORDINATE WALL BLOCKING FOR THE ANCHORING OF CASEWORK. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

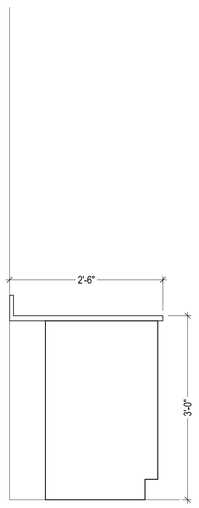
NOT TO SCALE



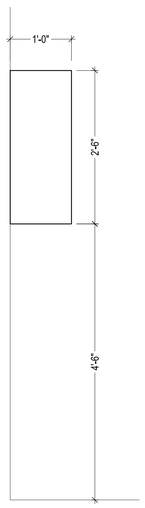
A SITTING HEIGHT BASE CABINET



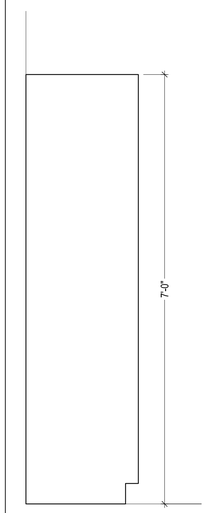
B ADA HEIGHT BASE CABINET



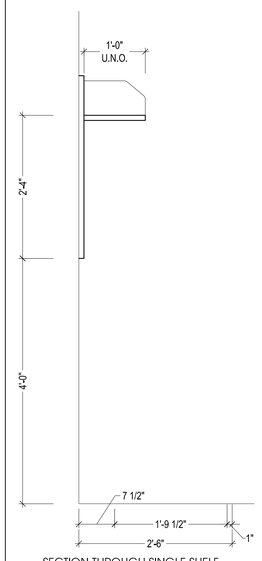
C STANDING HEIGHT BASE CABINET



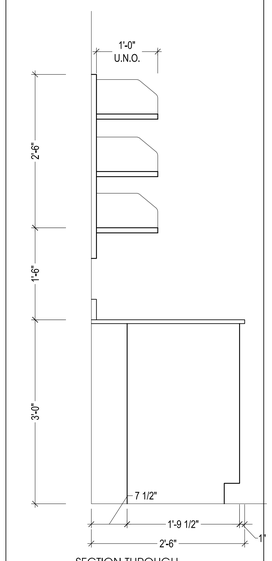
D 30" HIGH WALL CABINET



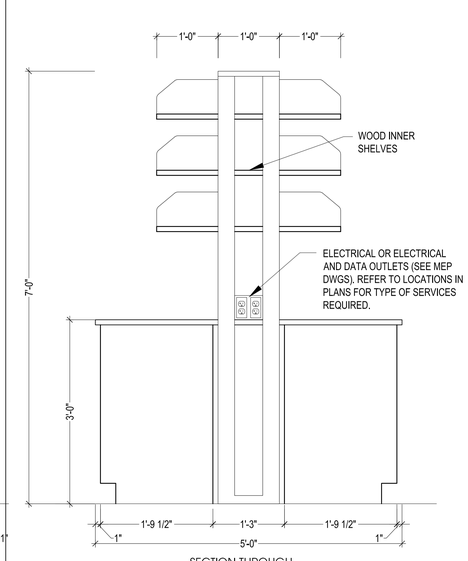
E FULL HEIGHT CABINET



F SECTION THROUGH SINGLE SHELF CASEWORK ALONG WALL



G SECTION THROUGH CASEWORK ALONG WALL



H SECTION THROUGH ISLAND BENCH

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

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541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
2	7/25/13	ADDENDUM #2

sst planners
1501 Wilson Blvd., Suite 902
Arlington, VA. 22209
TEL: 703-875-8787
FAX: 703-875-8655
sstplanners.com
Laboratory Planners

WATSON TATE SAVORY
P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

Metal Casework Details and Mounting Heights

Q4.2

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

SSOE ADDENDUM NO. 2

Date: July 25, 2013

RE: Watson Tate Savory Architects, Inc.
USC Horizon I Ground and Fourth Floors Upfit

To: Bidders: This addendum forms a part of the contract documents and modifies the original Bidding Documents dated June 17, 2013. Acknowledge receipt of this addendum in the space provided on the bid form.

From: SSOE Group
2520 Meridian Parkway, Suite 450
Durham, NC 27707
Phone: (919) 361-9606
Fax: (919) 484-8627

CLARIFICATIONS

Mechanical

Section 15410 – PLUMBING FIXTURES

1. Add Zurn as an acceptable manufacturer for Water Closets, Electric Water Cooler, Lavatories and Sinks.

Section 15725 – MODULAR INDOOR AIR-HANDLING UNITS

1. Add Temtrol as an acceptable manufacturer in paragraph 2.1.A.
2. Add paragraph 2.2.B to read as follows: "Unit shall be disassembled to fit through penthouse double doors (approximately 8' wide and 6' tall) and shall be field re-assembled in the penthouse".

Section 15815 – METAL DUCTS

1. Add Turn Key Duct Systems as an acceptable manufacturer in paragraph 2.2.B.

Section 15820 – DUCT ACCESSORIES

1. Add Pottorff as an acceptable manufacturer in paragraphs 2.4.A and 2.7.A.

Section 15840 – AIR TERMINAL UNITS

1. Add Price and Critical Room Control as acceptable manufacturers in paragraph 2.2.A.

Section 15850 – FANS

1. Add MK Plastics and Twin City as an acceptable manufacturer in paragraph 2.2.A.
2. Revise paragraph 2.2.R to read as follows: "Fans EF-1C and EF-2C shall be mounted on existing Strobic Air Exhaust Plenum on the equipment platform on the roof".

Drawing M6.52

1. Revise Air Handling Unit Schedule as follows: revise chilled water entering temperature to 45°F, revise cooling coil leaving air temperature to 52 DB°F and 51.9 WB°F, add Remark: cooling coil to be 8 row, 10 fpi coil.

SSOE ADDENDUM NO. 2

Drawing MP1.01

1. Replace this drawing with drawing MP1.01 issued with this addendum.

Drawing MP1.41

1. Replace this drawing with drawing MP1.41 issued with this addendum.

Drawing P1.41

1. Replace this drawing with drawing P1.41 issued with this addendum.

Drawing P7.00

1. Replace this drawing with drawing P7.00 issued with this addendum.

Drawing P7.40

1. Replace this drawing with drawing P7.40 issued with this addendum.

Addendum Clarifications:

1. Who is responsible for the overhead service carriers? The items are not covered in any specifications that I can find. OHSC are not detailed either for configuration, etc. The floor plan and elevations are showing units dashed in. Is the mechanical contractor providing these items? **Response: Overhead service carriers shall be as shown on A6.5 and S1.0.**
2. Will the plumber be responsible for the stainless steel sinks? (Ref. S11 – S14). The 12340 section does not cover stainless steel sinks except for the sink strainer & tailpiece which is noted by division 15. **Response: No. Division 15 contractor will provide S-11 sink as specified on P0.01, all other sinks are by lab casework supplier.**
3. Section 12309 Lab Service Fixtures – the specifications cover deck mounted fixtures, female quick disconnects for ADA cart, fume hood fixtures, safety showers, and deck mounted eyewashes. Will the plumber be responsible for the wall mounted service fixtures? **Response: No, plumber will provide as indicated on P drawings and al others are by lab casework supplier.**
4. Confirm that existing sprinkler heads are standard coverage, **NOT** extended coverage. **Response: Existing heads are standard coverage heads.**
5. Confirm that existing sprinkler system in all areas of work are Ordinary Hazard I or greater (as applicable), **NOT** Light Hazard. **Response: All heads are ordinary hazard or greater.**
6. Are there any specific durations / hours by the Owner for draining down the system, placing in test mode, performing work, and placing back in service each day? **Response: No, work shall be coordinated with owner and shall not limit use of existing floors.**
7. Are we to assume that work called out on the fire pump is to be performed during after hours when the building is not occupied? **Response: That is correct, work will need to be scheduled and coordinated with the owner.**
8. Will we need to account for a new fire pump start up/acceptance test with a field manufacturer rep after adjusting the psig's on the fire pump and jockey pump as required per the Fire Sprinkler Specification Sheet issued within Specification Section 15500? **Response: Yes, to confirm work has been performed.**

9. Will there be an elevator accessible for construction use? If so, what is the size? **Response: Yes, elevator #3 (freight elevator) is available for contractor use. See Addendum 1, Pre-bid minutes item C-2…contractors have had a chance to visit the site and verify elevator #3 is 6' wide by 9'-5" deep.**
10. Will the as-builts and hydraulic calculations of existing system be available in CAD format to the awarded FP Subcontractor to utilize in design? **Response: Hard copies are available, CAD drawings are NOT available.**
11. I do not see a detail of the air handler showing what sections/etc are required. The plan view drawing shows Mixing Box/ Filter/ Hot Water Coil/ Access/ Chilled Water Coil/Access/ Supply Fan/ ? **Response: Unit components should be mixing section, prefilters/ final filters, hot water preheat coil, access section, chilled water cooling coil, supply fan, discharge plenum.**
12. The lab exhaust fans tagged EF-1C and EF-2C are scheduled 60,000CFM- Strobic Model TS4L600C12. Please confirm that the fan model#/ CFM is correct and/or advise dimensions of this fan. **Response: EF-1C/2C are scheduled for 40,000 cfm. Existing fans EF-1A/1B, EF-2A/2B are Strobic Air TS4L400A12 and existing plenums have space for 1 additional fan be added.**
13. Could you please clarify where the Hammer Arrestors are to be placed on the above-mentioned project - is it at every fixture or just the fast closing valves (like water closets, flush valves, etc.)? **Response: Only at fast closing valves.**

Electrical

Section 16231– PACKAGED ENGINE GENERATOR

1. Generator Set Start Module is not required. Delete section 2.3 (L)(6).

Drawing EP1.01

1. Add junction and circuit in service corridor for Gas Detection Panel. Add note 15. Replace this drawing with drawing EP1.01 in this addendum.

Drawing EP1.41

1. Add junction and circuit in service corridor for Gas Detection Panel. Add note 10. Replace this drawing with drawing EP1.01 in this addendum.

Drawing E6.01

1. Panel RP-0E2 – Delete hatching to clarify as new circuits.
2. Panel RP-0C9 – Revise GFCI breaker triangle location.
3. Panel URP-0C7 – Add Gas Detection Panel circuit.

SSOE ADDENDUM NO. 2

Drawing E6.41

1. Panel RP-4E2 –
    a. Delete hatching to clarify as new circuits.
    b. Revise GFCI breaker triangle location.

2. Panel URP-4C6.5 – Add Gas Detection Panel circuit.

Drawing EP5.61

1. Add keynote 1 for panel ERP-0D2, ERP-1E2, ERP-2E2, ERP-3E2, and ERP-4E2. Replace this drawing with drawing EP5.61 in this addendum.

Drawing EP5.64

1. Clarify requirements for remote annunciator for manufacturer other than Caterpillar. Replace this drawing with drawing EP5.64 in this addendum.

Drawing ET1.01

1. Add data outlet to lab 025. Replace this drawing with drawing ET1.01 in this addendum.

Drawing ET3.01

1. Revise note G, General Contractor. to provide fire-stopping. Replace this drawing with drawing ET3.01 in this addendum.

Addendum Clarifications:

1. A1.01 indicates that the contractor is to relocate existing electrical and data as required to install new footings where the floor was previously cut and patched to install the electrical and data. There isn't any information on the plans that indicate what the electrical or data is for or where it is going/coming from.
    a. For the electrical circuits that might be encountered, please indicate the circuit number and where it is feed from and going to so that the amount of new conduit and wire can be calculated.
    b. For the data please indicate the same as above. Is the data to be included in this project as the data on the rest of the project is by others.

    Response: The buried electrical is communication cabling for area of rescue two-way communication stations at stairwells. Contractor to coordinate with Owner for

nearest tie-in location where cables can be disconnected and conduits/cabling re-routed around new foundation slab indicated on sheet A1.01.

2. The electrical drawing indicate that the fire stopping is to be by the general contractor except on the addendum #1 sheet ET3.01 where it states it is by the electrical contractor. The mechanical drawings do not seem to indicate that the fire stopping is to be by the general contractor. The electrical contractor is the only one that can tell how many penetration that will be required for their work as the routing of the piping isn't indicated on their drawings and each different electrical contractor is subject to run their work in a different manner that effects the amount of penetrations. As it is normal for the trades to include fire stopping for there penetrations, please remove the note indicating that it is to be by the general contractor.

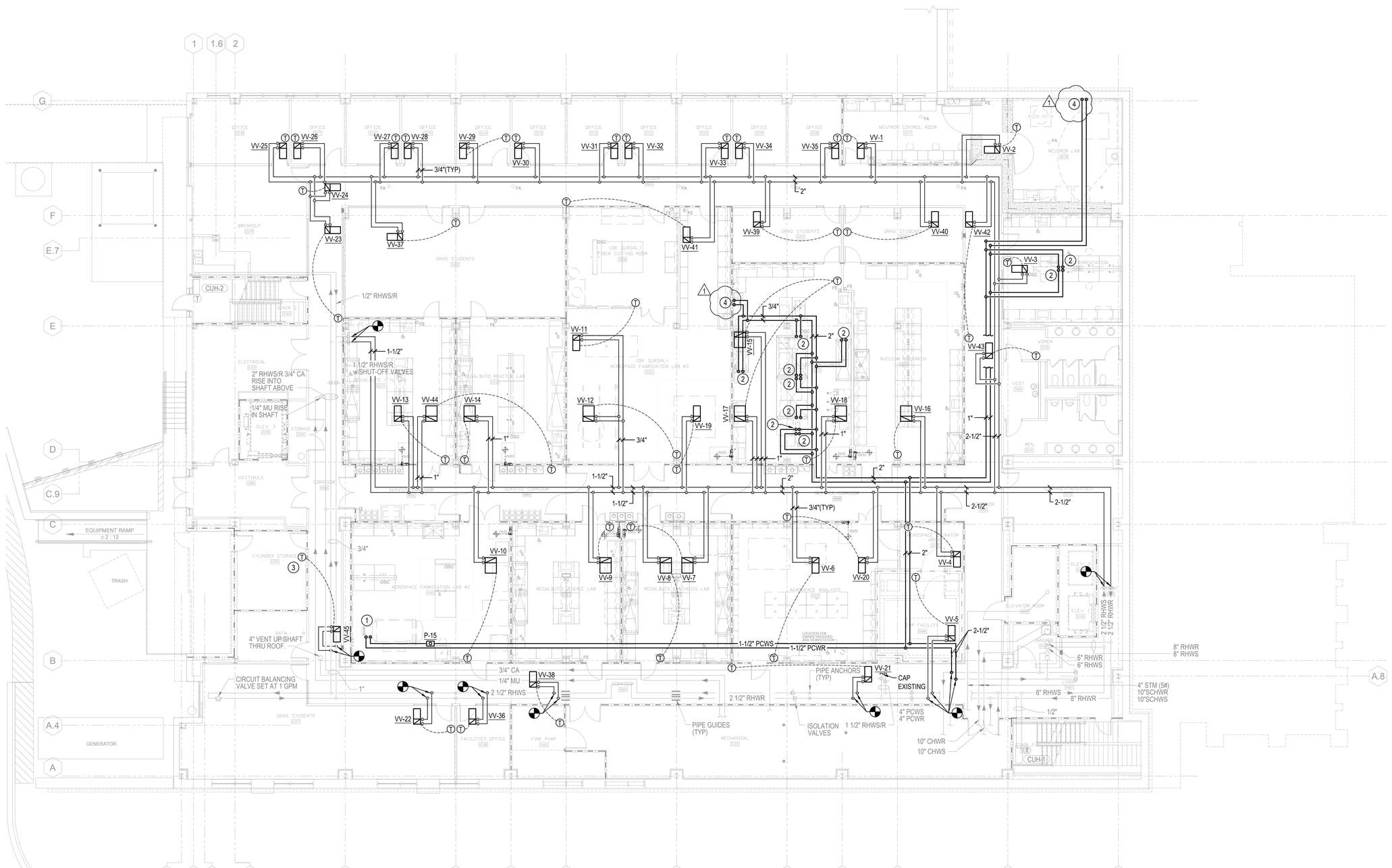
Response: Firestopping is required to be by General Contractor. See updated sheet ET3.01

END OF ADDENDUM

GENERAL NOTE:
ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C'; 2009 IBC; AS DESIGNED BY A LICENSED S.C. P.E. INCLUDING BRACING DWGS, DETAILS AND ANCHOR BOLT CALCULATIONS.

NOTES:

1. 1-1/2" PCWS/PCWR TO AUTOCLAVE.
2. 3/4" PCWS & PCWR DN.
3. THERMOSTAT SHALL BE REMOTE SENSOR TYPE.
4. 3/4" PCWS & PCWR DN, TERMINATE WITH BALL VALVES AND QUICK CONNECT FITTING 48" AFF.



GROUND FLOOR PLAN-PIPING

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

JOB N

N

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

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541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

SOUTH CAROLINA SSOE, INC. No. C 00746 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 30465 REGISTERED PROFESSIONAL ENGINEER DAVID L. WILSON 1/23

WATSON TATE SAVORY

Ground Floor Plan Piping

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

MP1.01

WTS NO.: 11700

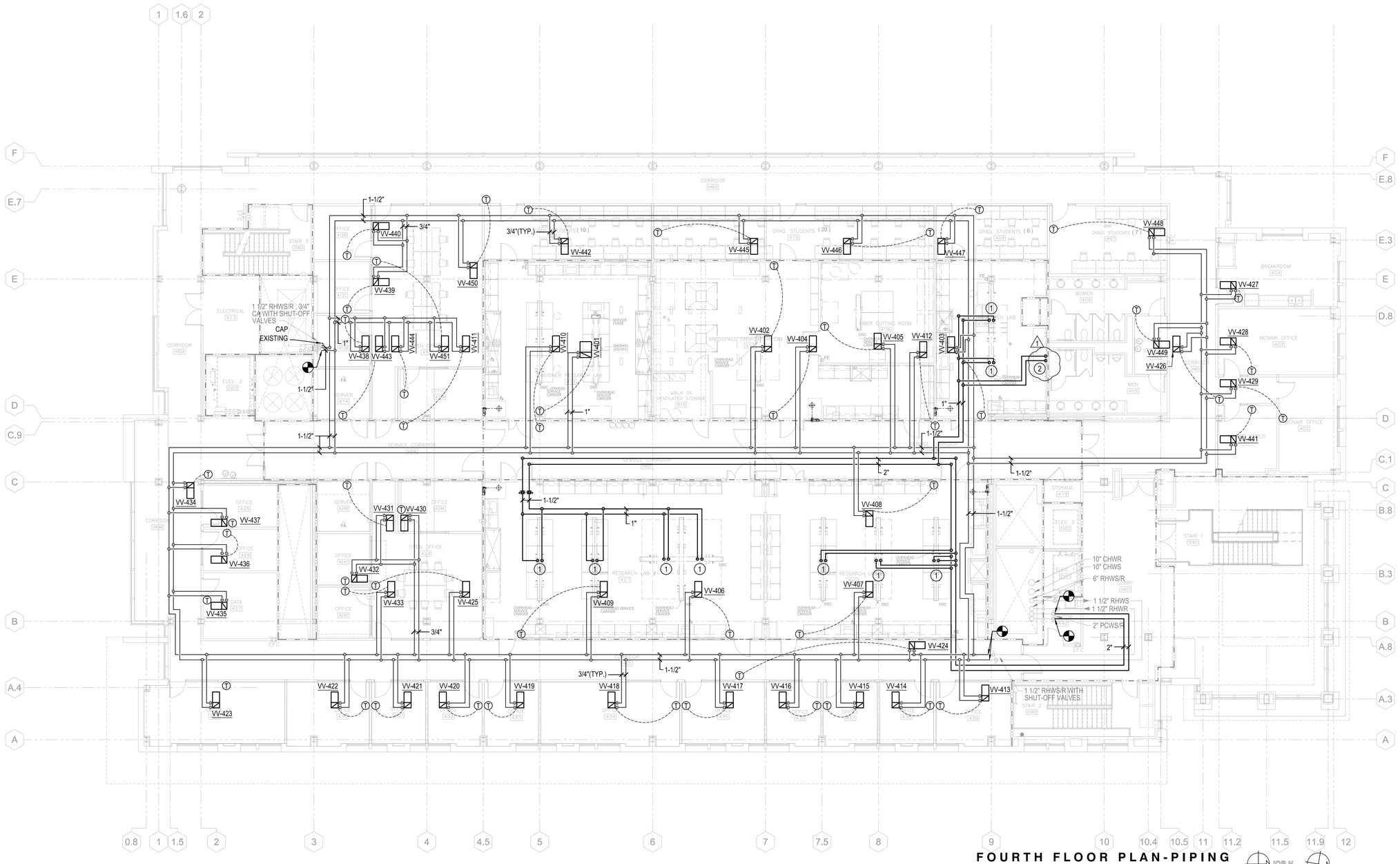
JUNE 17, 2013

BIDDING DOCUMENTS

GENERAL NOTE:
ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C'; 2009 IBC; AS DESIGNED BY A LICENSED S.C. P.E. INCLUDING BRACING DWGS, DETAILS AND ANCHOR BOLT CALCULATIONS.

NOTES:

1. 3/4" PCWS & PCWR DN
2. 3/4" PCWS & PCWR DN, TERMINATE WITH BALL VALVES AND QUICK CONNECT FITTING 48" AFF.



FOURTH FLOOR PLAN-PIPING

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

JOB N

N

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

SOUTH CAROLINA
SSOE, INC.
No. C 00746
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 30455
7/25/13
DAVID L. WILSON

WATSON TATE SAVORY

Fourth
Floor Plan
Piping

P.O. BOX 8444, COLUMBIA, SC 29202 | 316 WASHINGTON STREET, COLUMBIA, SC 29201

MP1.41

WTS NO.: 11700

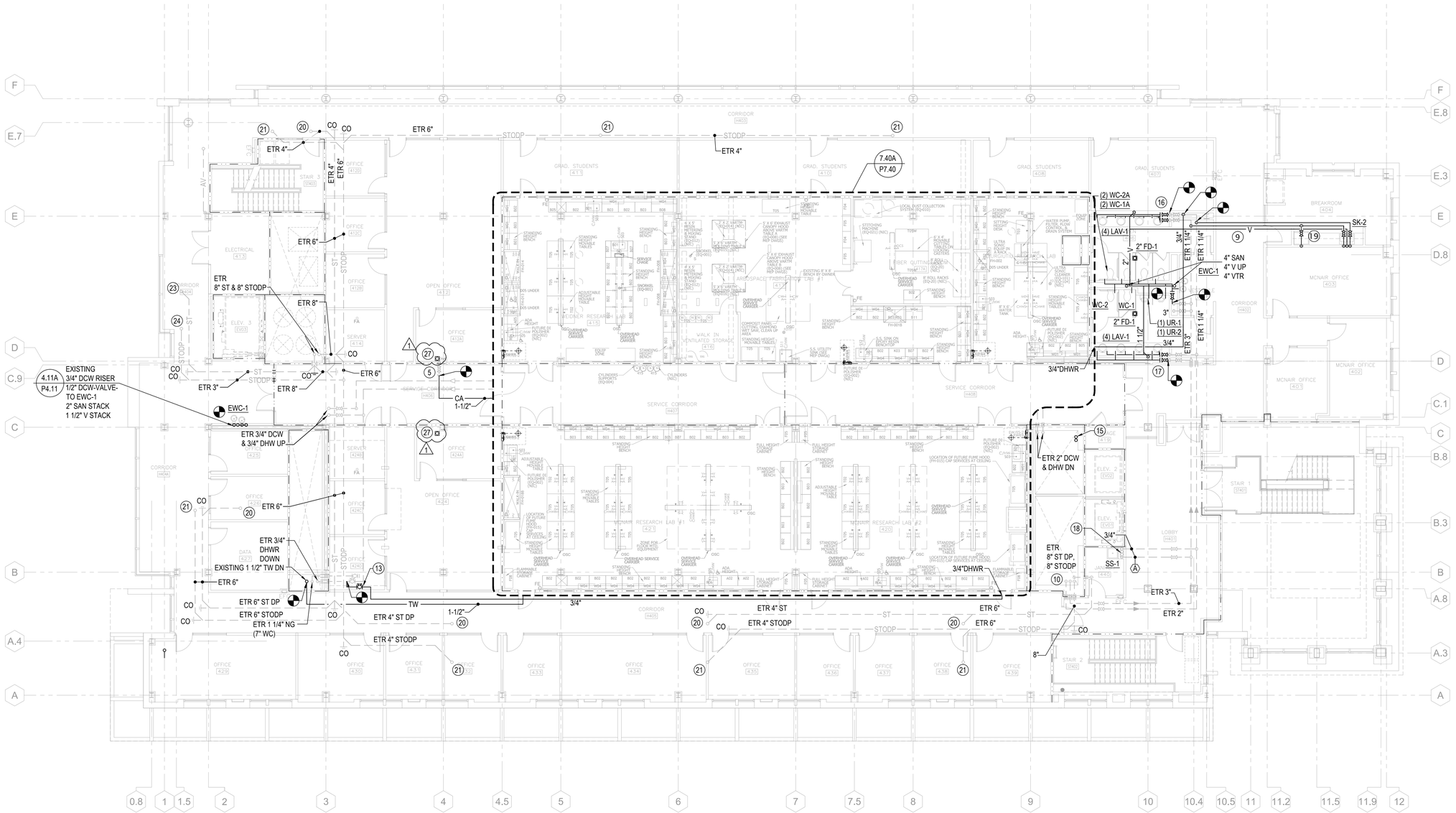
JUNE 17, 2013

BIDDING DOCUMENTS

PLAN NOTES: (THIS DRAWING ONLY)

1. SEE DWG. P001 FOR LEGEND, GENERAL NOTES, AND FIXTURE SCHEDULE.
2. SLOPE PIPING AT 1/8" (1.0%) PER FOOT.
3. SLOPE PIPING AT 1/4" (2.0%) PER FOOT.
4. SLOPE PIPING AT 1/2" (4.0%) PER FOOT.
5. CTE 1 1/2" VALVED AND CAPPED CA CONNECTION WITH NEW 1 1/2" CA.
6. PIPING ABOVE CEILING.
7. HATCHED AREA NOT IN CONTRACT. REFER TO LEGEND ON DRAWING P0.01.
8. ETR 5) 1/2" DCW FROM ELECTRONIC TRAP PRIMER TO FLOOR DRAINS.
9. 1/2" DHW, 1/2" DCW, 2" V
10. 2" DHW (125°F)
    3" DCW UP
11. ETR 3/4" DCW UP TO HB-1 & TRAP PRIMER.
12. SLEEVE AND SEAL ALL PIPES THROUGH WALLS.
13. BALANCE VALVE WITH MEMORY STOP; SHUTOFF: SET AT 6.0 GPM
    B&G MODEL - CB - 3/4" S
14. PIPING SHALL BE INSTALLED ABOVE OTHER PIPES, DUCTS, ETC.
15. ETR (2) 3/4" RELIEF VENTS UP
16. 1 1/4" DCW, 1 1/4" DHW DOWN - (2) 3/4" TO HEADERS SERVING LAVS
17. 1 1/4" DCW, 1 1/4" DHW DOWN - (2) 3/4" TO HEADERS SERVING LAVS; 1/2" TO ETP TRAP PRIMER & FD
18. ETR 3" SAN, 2" V STACK, 3/4" DCW & 3/4" DHW DOWN
19. PROVIDE 1/2" DCW SUPPLY WITH 1/4" O.D. COMPRESSION OUTLET FOR COUNTER-MOUNTED COFFEE MAKER FROM SINK DCW SUPPLY. PROVIDE 1/2" DCW SUPPLY FOR ICE MAKER CONNECTION AT REFRIGERATOR. PROVIDE GUY GRAY ICE MAKER BOX MODEL NO. BIM875 WITH 1/4" O.D. COMPRESSION OUTLET AT 48" AFF BEHIND REFRIGERATOR.
20. ETR 4" ST-UP TO EXISTING 4" RD-1 ABOVE
21. ETR 4" STODP-UP TO EXISTING 4" RD-2 ABOVE
22. NEW 1-1/2" CA RISER - UP & DN
23. ETR 3" ST-UP TO EXISTING 3" RD-1 ABOVE
24. ETR 3" STODP-UP TO EXISTING 3" RD-2 ABOVE
25. INSTALL 3" DCW DOWN TO 3RD FLOOR WITH 2" DCW HEADER SERVING WATER CLOSETS & URINALS ON FOURTH FLOOR
26. ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C', 2006 IBC.
27. PLUG EXISTING FLOOR DRAIN

GENERAL NOTE:
ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C'; 2009 IBC; AS DESIGNED BY A LICENSED S.C. P.E. INCLUDING BRACING DWGS, DETAILS AND ANCHOR BOLT CALCULATIONS.



FOURTH FLOOR PLAN-PLUMBING

SCALE: 1/8" = 1'-0" FFE 166.00' (319.00')

JOB N

N

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION SSOE, INC. No. C 00746

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30455 DAVID L. WILSON 7/25/13

WATSON TATE SAVORY

Fourth
Floor Plan
Plumbing

P.O. BOX 8644, COLUMBIA, SC 29202 |516 WASHINGTON STREET, COLUMBIA, SC 29201

P1.41

WTS NO.: 11700 JUNE 17, 2013

BIDDING DOCUMENTS

KEYED PLUMBING NOTES: (THIS DRAWING & PP7.00 ONLY)

1. PIPING BELOW OR ABOVE CEILING-SOFT COPPER-NO JOINTS-INSULATE PER SPECIFICATION SECTION 15083.
2. BALANCE VALVE WITH MEMORY STOP; SHUTOFF: SET AT 6.0 GPM B&G MODEL - CB - 3/4" S
3. INSULATE ALL PIPES BELOW ADA SINK PER SPECIFICATIONS SECTION 15250.
4. COORDINATE WITH LAB EQUIPMENT DRAWING Q0.00 THROUGH Q2.04.
5. CAP OR PLUG FOR FUTURE EXTENSION.
6. INSTALL NEW 1-1/2" RISER-UP TO FIRST FLOOR. CONNECT TO EXISTING 1-1/2" CA RISER IN SERVICE CORRIDOR. COORDINATE EXACT LOCATION IN THE FIELD.
7. PROVIDE BALL VALVE WITH LOCK-OPEN FEATURE ON ALL TEPID WATER LINES INTO LABS.
8. PROVIDE 3/4" TW TO BENCHTOP-MOUNTED EYEWASH. EYEWASH PROVIDED BY L.E.S., CONNECTION BY PLUMBING CONTRACTOR.
9. PROVIDE 3/4" DCW VALVE AND CAP FOR FUTURE WALL-MOUNTED POLISHING STATION.
10. 1 1/2" TW 1 1/4" DCW 1 1/4" DHW 2" AV
11. 1 1/4" DCW 1 1/4" DHW 2" AV
12. EXTEND NEW PIPING TO SINK, TURRETS, ES/EW, EW AND CONNECT AS NECESSARY.
13. PIPING SHALL BE INSTALLED ABOVE OTHER PIPES, DUCTS, ETC.
14. ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C'; 2009 IBC; REFER TO STRUCTURAL DRAWINGS.
15. 1-1/2" AW PIPING WITH P-TRAP CONNECTED TO DRAIN OUTLET OF EMERGENCY EYEWASH/SHOWER FIXTURE. EMERGENCY SHOWER/EYEWASH FIXTURE PROVIDED BY L.E.C., INSTALLED BY PLUMBING CONTRACTOR. P.C. SHALL MAKE ALL FINAL CONNECTIONS. REFER TO DETAIL 3.01F ON DRAWING P3.01 FOR MORE INFORMATION.
16. EXISITNG 1-1/2" COMPRESSED AIR RISER - UP AND DOWN. CONNECT TO EXISTING RISER AS INDICATED.
17. CONNECT 1/2" HW, 1/2" CW AND 2" AW FOR SK-6 TO STAINLESS STEEL UTILITY SERVICE PANEL. SERVICE PANEL NOT IN PLUMBING CONTRACT. REFER TO LAB PLANNERS FLOOR PLANS AND DETAILS FOR MORE INFORMATION.
18. RUN 1/2" CA PIPING UNDER COUNTER TO COMPRESSED AIR TURRETS AS INDICATED. PROVIDE SUPPORT FOR COMPRESSED AIR PIPING AS REQUIRED TO PROVIDE A SECURE INSTALLATION. COORDINATE LOCATION OF PIPING WITH DRAWERS AND OTHER INTERNAL CASEWORK ITEMS.
19. PROVIDE 1/4" FNPT WATER CONNECTION TO SCRUBBER
20. ROUTE 1" DRAIN FROM SCRUBBER TO NEAREST SINK.
21. 1" DCW SUPPLY LINE FOR WATER JET EQUIPMENT, TERMINATE 84" AFF WITH BALL VALVE AND QUICK DISCONNECT FITTING.
22. 1" DCW WITH BALL VALVE TO AUTOCLAVE.
23. 1/2" DCW, TERMINATE WITH HOSE BIBB 48" AFF.

GENERAL PLUMBING NOTES:

1. EACH LAB PIPE CONNECTING TO TURRET OR FUME HOOD SHALL HAVE A MINIMUM PIPE SIZE CONNECTION OF:

   DOMESTIC COLD WATER (DCW)..... 1/2"
   COMPRESSED AIR (CA)..... 1/2"
   ACID WASTE (AW) ..... 2"
   ACID VENT (AV) ..... 2"

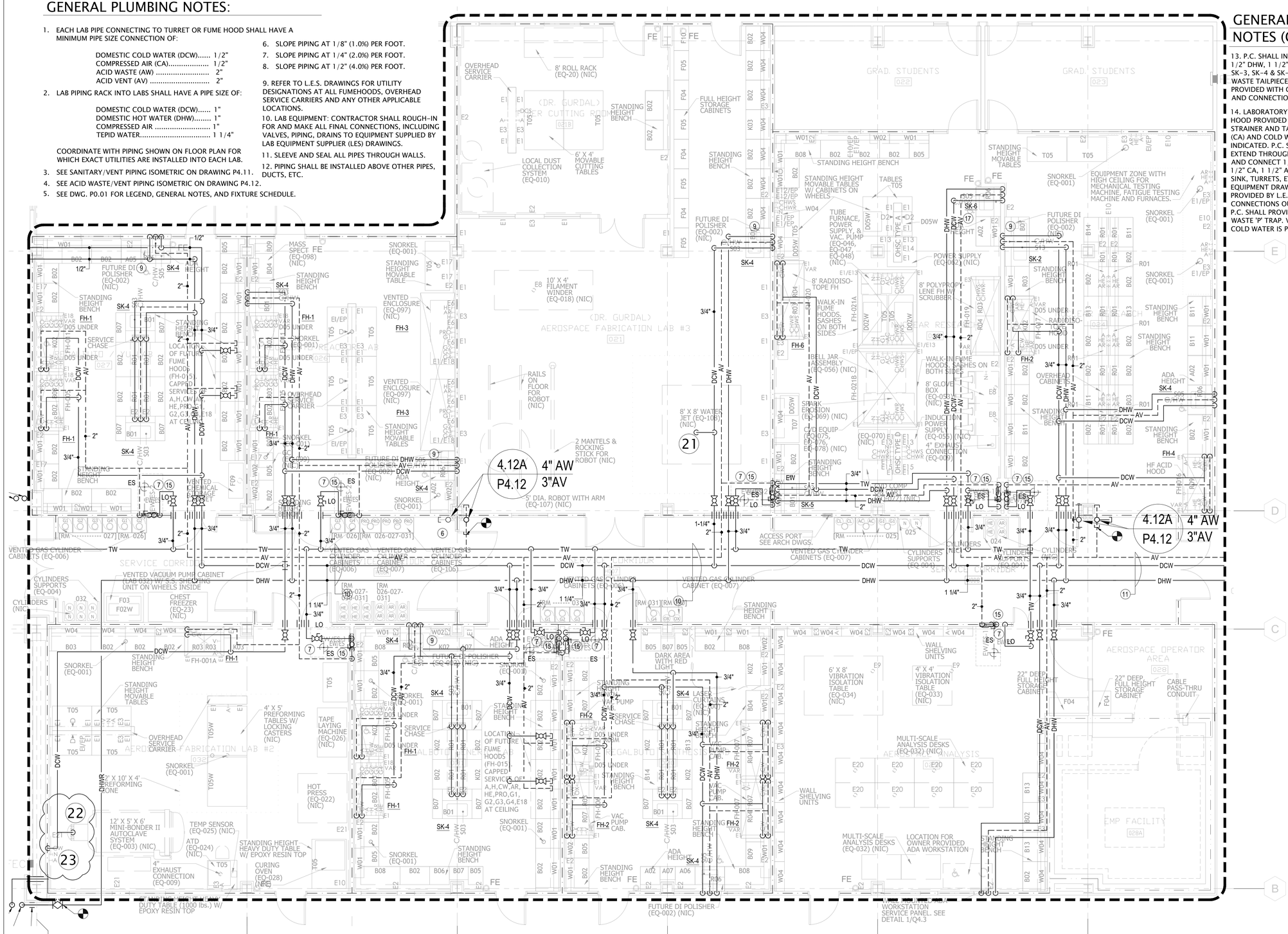
2. LAB PIPING RACK INTO LABS SHALL HAVE A PIPE SIZE OF:

   DOMESTIC COLD WATER (DCW)..... 1"
   DOMESTIC HOT WATER (DHW)..... 1"
   COMPRESSED AIR ..... 1"
   TEPID WATER..... 1 1/4"

   COORDINATE WITH PIPING SHOWN ON FLOOR PLAN FOR WHICH EXACT UTILITIES ARE INSTALLED INTO EACH LAB.
3. SEE SANITARY/VENT PIPING ISOMETRIC ON DRAWING P4.11.
4. SEE ACID WASTE/VENT PIPING ISOMETRIC ON DRAWING P4.12.
5. SEE DWG. P0.01 FOR LEGEND, GENERAL NOTES, AND FIXTURE SCHEDULE.
6. SLOPE PIPING AT 1/8" (1.0%) PER FOOT.
7. SLOPE PIPING AT 1/4" (2.0%) PER FOOT.
8. SLOPE PIPING AT 1/2" (4.0%) PER FOOT.
9. REFER TO L.E.S. DRAWINGS FOR UTILITY DESIGNATIONS AT ALL FUMEHOODS, OVERHEAD SERVICE CARRIERS AND ANY OTHER APPLICABLE LOCATIONS.
10. LAB EQUIPMENT: CONTRACTOR SHALL ROUGH-IN FOR AND MAKE ALL FINAL CONNECTIONS, INCLUDING VALVES, PIPING, DRAINS TO EQUIPMENT SUPPLIED BY LAB EQUIPMENT SUPPLIER (LES) DRAWINGS.
11. SLEEVE AND SEAL ALL PIPES THROUGH WALLS.
12. PIPING SHALL BE INSTALLED ABOVE OTHER PIPES, DUCTS, ETC.

GENERAL PLUMBING NOTES (CONT):

13. P.C. SHALL INSTALL 1/2" DCW, 1/2" DHW, 1 1/2" AW WITH 'P' TRAP TO SINK SK-3, SK-4 & SK-5. STRAINER WITH ACID WASTE TAILPIECE, FAUCET AND EYEWASH PROVIDED WITH CABINETS BY L.E.S. PIPING AND CONNECTIONS BY P.C.
14. LABORATORY CABINETS AND FUME HOOD PROVIDED BY L.E.S. WITH CUP SINK, STRAINER AND TAILPIECE,COMPRESSED AIR (CA) AND COLD WATER (DCW) TURRETS AS INDICATED. P.C. SHALL DROP PIPING AND EXTEND THROUGH CABINET, ABOVE FLOOR AND CONNECT 1/2" DCW, 1/2" DHW, 1/2" CA, 1 1/2" AW 'P' TRAP, TO FAUCET, SINK, TURRETS, ETC. - VERIFY WITH LAB EQUIPMENT DRAWINGS. FUME HOOD PROVIDED BY L.E.S. WITH UTILITY CONNECTIONS OUT AT TOP OF FUME HOOD. P.C. SHALL PROVIDE AND INSTALL ACID WASTE 'P' TRAP. VACUUM BREAKER FOR COLD WATER IS PRE-PIPED WITH UNIT.



1 P7.00 **ENLARGED GROUND FLOOR LAB PLUMBING PLAN**

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

FFE 166.00' (319.00')

JOB N

N

innovista
University of South Carolina

STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

GENERAL NOTE:
ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C'; 2009 IBC; AS DESIGNED BY A LICENSED S.C. P.E. INCLUDING BRACING DWGS, DETAILS AND ANCHOR BOLT CALCULATIONS.

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION SSOE, INC. No. C 00746

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 30088 DAVID L. WILSON 7/25/13

WATSON TATE SAVORY

Enlarged Ground Floor Lab Plumbing Plan

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

P7.00

WTS NO.: 11700

JUNE 17, 2013

BIDDING DOCUMENTS

PLAN NOTES:

(THIS DRAWING & PP7.40 ONLY)

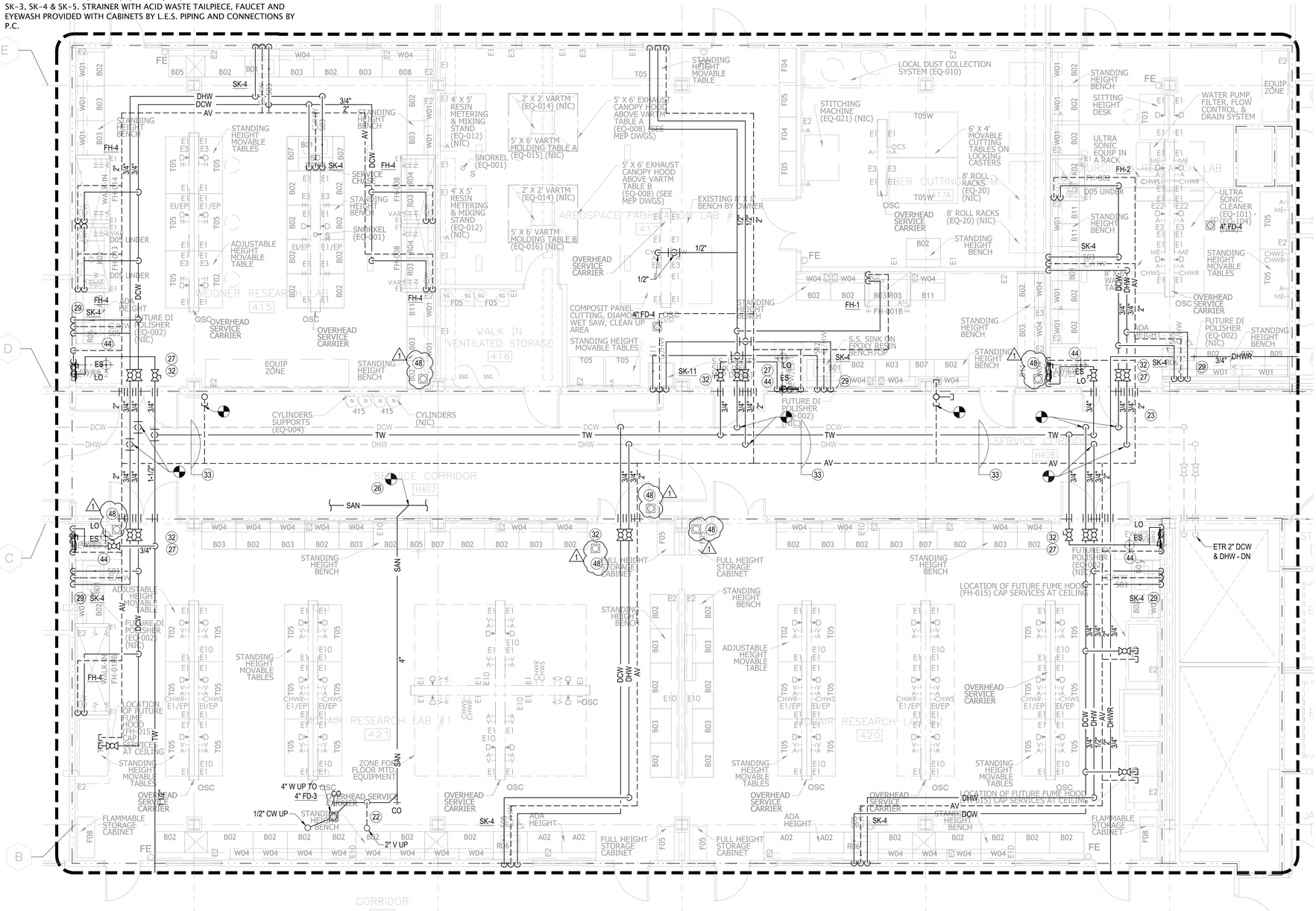
1. SEE DWG. P0.01 FOR LEGEND, GENERAL NOTES, AND FIXTURE SCHEDULE.
2. SLOPE PIPING AT 1/8" (1.0%) PER FOOT.
3. SLOPE PIPING AT 1/4" (2.0%) PER FOOT.
4. SLOPE PIPING AT 1/2" (4.0%) PER FOOT.
5. PIPING BELOW OR ABOVE CEILING-SOFT COPPER-NO JOINTS-INSULATE PER SPECIFICATION SECTION 15083.
6. PIPING ABOVE CEILING.
7. EXTEND NEW PIPING TO SINK, TURRETS, ES/EW, EW AND CONNECT AS NECESSARY.
8. REFER TO L.E.S. DRAWINGS FOR UTILITY DESIGNATIONS AT ALL FUMEHOODS, OVERHEAD SERVICE CARRIERS AND ANY OTHER APPLICABLE LOCATIONS.
9. LAB EQUIPMENT: CONTRACTOR SHALL ROUGHIN FOR AND MAKE ALL FINAL CONNECTIONS, INCLUDING VALVES, PIPING, DRAINS TO EQUIPMENT SUPPLIED BY LAB EQUIPMENT SUPPLIER (LES) DRAWINGS.
10. EXTEND ON WALL TO EQUIPMENT AND CONNECT-MINIMUM 1" AIR GAP BETWEEN WALL AND PIPE INSULATION (NO INSULATION ON NG PIPE).
11. ROLL DOWN AT 45° AND CONNECT.
12. SLEEVE AND SEAL ALL PIPES THROUGH WALLS.
13. BALANCE VALVE WITH MEMORY STOP; SHUTOFF: SET AT 6.0 GPM B&G MODEL - CB - 3/4" S
14. PIPING SHALL BE INSTALLED ABOVE OTHER PIPES, DUCTS, ETC.
15. P.C. SHALL INSTALL 1/2" DCW, 1/2" DHW, 1 1/2" AW WITH 'P' TRAP TO SINK SK-3, SK-4 & SK-5. STRAINER WITH ACID WASTE TAILPIECE, FAUCET AND EYEWASH PROVIDED WITH CABINETS BY L.E.S. PIPING AND CONNECTIONS BY P.C.
16. LABORATORY CABINETS AND FUME HOOD PROVIDED BY L.E.S. WITH CUP SINK, STRAINER AND TAILPIECE, NITROGEN (N), COMPRESSED AIR (CA) AND OTHER UTILITY TURRETS AS INDICATED. P.C. SHALL DROP PIPING AND EXTEND THROUGH CABINET, ABOVE FLOOR AND CONNECT 1/2" DCW, 1/2" DHW, 1/2" N, 1/2" CA, 1 1/2" AW 'P' TRAP, TO FAUCET, SINK, TURRETS, ETC. - VERIFY WITH LAB EQUIPMENT DRAWINGS. FUME HOOD PROVIDED BY L.E.S. WITH UTILITY CONNECTIONS OUT AT TOP OF FUME HOOD. P.C. SHALL PROVIDE AND INSTALL ACID WASTE 'P' TRAP. VACUUM BREAKER FOR COLD WATER IS PRE-PIPED WITH UNIT.
17. SEE SANITARY/VENT PIPING ISOMETRIC ON DRAWING P4.11.
18. SEE ACID WASTE/VENT PIPING ISOMETRIC ON DRAWING P4.12.
19. INSULATE ALL PIPES BELOW ADA SINK PER SPECIFICATIONS SECTION 15250.
20. EACH LAB PIPE CONNECT TO TURRET SHALL HAVE A MINIMUM PIPE SIZE CONNECTION OF:

    DOMESTIC COLD WATER (DCW).....1/2"
    COMPRESSED AIR (CA - HOUSE).....1/2"

21. COORDINATE WITH LAB EQUIPMENT DRAWING Q0.00 THROUGH Q2.04.
22. 2" V OFFSET AT 45°, RISE AT FACE OF PENTHOUSE WALL ABOVE.
23. NEW 1-1/2" CA RISER - UP TO PENTHOUSE. REFER TO DRAWING P1.51 FOR CONTINUATION.
24. INSTALL AND CONNECT 1/2" DCW, VALVED FROM SINK TO ICE MAKER IN REFRIGERATOR (NIC).
25. INSTALL 1/2" CA PIPING TO TURRETS MOUNTED ON OVERHEAD SERVICE CARRIER. COORDINATE EXACT LOCATION WITH OTHER UTILITIES.
26. CONNECT TO EXISTING 4" SAN WITH NEW 4" SAN. HORIZONTAL 4" SAN PIPING SHALL BE INSTALLED AT 1/8" PER FOOT SLOPE.
27. PROVIDE BALL VALVE WITH LOCK-OPEN FEATURE ON ALL TEPID WATER LINES INTO LABS.
28. NOT USED
29. PROVIDE 3/4" DCW VALVE AND CAP FOR FUTURE WALL-MOUNTED POLISHING STATION.
30. NOT USED
31. NOT USED
32. LAB PIPING RACK INTO LABS SHALL HAVE A PIPE SIZE OF:

    DOMESTIC COLD WATER (DCW)..... 1"
    DOMESTIC HOT WATER (DHW)..... 1"
    TEPID WATER..... 1 1/4"

    COORDINATE WITH PIPING SHOWN ON FLOOR PLAN FOR WHICH EXACT UTILITIES ARE INSTALLED INTO EACH LAB.
33. 1 1/2" TW 1 1/4" DCW 1 1/4" DHW 4" AV
34. PIPING ABOVE CEILING.
35. NOT USED
36. NOT USED
37. PIPING SHALL BE INSTALLED ABOVE OTHER PIPES, DUCTS, ETC.
38. NOT USED
39. ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C'; 2009 IBC; REFER TO STRUCTURAL DRAWINGS.
40. NOT USED
41. NOT USED
42. NOT USED
43. NOT USED
44. 1-1/2" AW PIPING WITH P-TRAP CONNECTED TO DRAIN OUTLET OF EMERGENCY EYEWASH/SHOWER FIXTURE. EMERGENCY SHOWER/EYEWASH FIXTURE PROVIDED BY L.E.C., INSTALLED BY PLUMBING CONTRACTOR. P.C. SHALL MAKE ALL FINAL CONNECTIONS. REFER TO DETAIL 3.01F ON DRAWING P3.01 FOR MORE INFORMATION.
45. EXISITNG 1-1/2" COMPRESSED AIR RISER - UP AND DOWN. CONNECT TO EXISTING RISER AS INDICATED.
46. NOT USED
47. RUN 1/2" CA PIPING UNDER COUNTER TO COMPRESSED AIR TURRETS AS INDICATED. PROVIDE SUPPORT FOR COMPRESSED AIR PIPING AS REQUIRED TO PROVIDE A SECURE INSTALLATION. COORDINATE LOCATION OF PIPING WITH DRAWERS AND OTHER INTERNAL CASEWORK ITEMS.
48. PLUG EXISTING FLOOR DRAIN.



1 P7.00 **ENLARGED FOURTH FLOOR LAB PLUMBING PLAN**

SCALE: 1/4" = 1'-0" FFE 166.00' (319.00')

innovista University of South Carolina

STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

GENERAL NOTE:
ALL EQUIPMENT AND PIPING SHALL BE INSTALLED PER SEISMIC CATEGORY 'C'; 2009 IBC; AS DESIGNED BY A LICENSED S.C. P.E. INCLUDING BRACING DWGS, DETAILS AND ANCHOR BOLT CALCULATIONS.

SSOE, INC. No. C 00746 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30455 DAVID L. WILSON 7/25/13

WATSON TATE SAVORY

Enlarged Fourth Floor Lab Plumbing Plan

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

P7.40

WTS NO.: 11700 JUNE 17, 2013

BIDDING DOCUMENTS

ELECTRICAL PANEL SCHEDULE

PANEL	LP-0E2	BLDG	DATE
TYPE	480Y/277V-3PH-4W	LOCATION	GROUND FLR. ELEC. RM.
MOUNTING	Surface		
MAIN	200A MB	TOP or BOTTOM	TOP
RATING	65KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	LIGHTS	0.2			ELEC ROOM	
3b	20-1	LIGHTS		1.9		K. WESTBASE/CYLINDER MGT/DATA ROOM	
5c	20-1	SPACE				COSBY 402/JANITOR 435	
7a	20-1	SPARE					
9b	20-1	SPARE					
11c	20-1	SPARE					
13a	20-1	SPARE					
15b	20-1	LIGHTS				MECH. RM.	
17c	20-1	LIGHTS			2.1	LOBBY/STRG/ELEV. RMS	
19a	20-1	SPARE					
21b	20-1	SPARE					
23c	20-1	SPARE					
25a	20-1	SPARE					
27b	20-1	SPARE					
29c	20-1	SPARE					
31a	20-1	SPARE					
33b	–	SPACE					
35c	–	SPACE					
37a	–	SPACE					
39b	–	SPACE					
41c	–	SPACE					
2a	20-1	LIGHTS	3.0			WEST OFFICES	2#10,#10G-3/4"C
4b	20-1	LIGHTS		3.1		WEST OFFICES/LABS	2#10,#10G-3/4"C
6c	20-1	LIGHTS			1.8	WEST GRAD STUD./LABS	2#10,#10G-3/4"C
8a	20-1	LIGHTS	2.7			WEST LABS	2#10,#10G-3/4"C
10b	20-1	LIGHTS		2.5		WEST GRAD/LABS/RESTROOMS	2#10,#10G-3/4"C
12c	20-1	LIGHTS			2.9	EAST LABS	2#10,#10G-3/4"C
14a	20-1	LIGHTS	2.2			EAST OFFICES	2#10,#10G-3/4"C
16b	20-1	LIGHTS			2.1	CORRIDORS/SERVICE CORRIDOR	2#10,#10G-3/4"C
18c	20-1	SPARE					
20a	20-1	SPARE					
22b	20-1	SPARE					
24c	20-1	SPARE					
26a	20-1	SPARE					
28b	20-1	SPARE					
30c	20-1	SPARE					
32a	–	SPACE					
34b	–	SPACE					
36c	–	SPACE					
38a	30-3	TVSS					
40b	–	–					
42c	–	–					
DEMAND kVA=	24	CONNECTED kVA= 24.3	TOTAL	8	9	7	
		CONNECTED Amps= 29.2					

ELECTRICAL PANEL SCHEDULE

PANEL	ELP-0D2	BLDG	DATE
TYPE	480Y/277V-3PH-4W	LOCATION	GROUND FLR. ELEC. RM.
MOUNTING	Surface		
MAIN	200A MB	TOP or BOTTOM	TOP
RATING	65KAIC		
		NOTES	(STANDBY)
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	70-3	ERP-002 via XFMR				GND FLR. ELEC. RM.	
3b	–	–				–	
5c	–	–				–	
7a	20-1	SPARE					
9b	20-1	SPARE					
11c	20-1	SPARE					
13a	20-1	SPARE					
15b	20-1	SPARE					
17c	20-1	SPARE					
19a	20-1	SPARE					
21b	20-1	SPARE					
23c	20-1	SPARE					
25a	70-3	ERP-1E9.2	5.3			1ST FLR.	
27b	–	–		5.3		–	
29c	–	–			5.5	–	
31a	–	SPACE					
33b	–	SPACE					
35c	–	SPACE					
37a	–	SPACE					
39b	–	SPACE					
41c	–	SPACE					
2a	70-3	SPARE					
4b	–	–					
6c	–	–					
8a	20-1	LIGHTS	0.7			STAIR 2	
10b	20-1	LIGHTS		0.3		SHELL SPACE	
12c	20-1	LIGHTS			0.6	STAIR 3	
14a	20-1	SPARE					
16b	20-1	SPARE					
18c	20-1	SPARE					
20a	20-1	SPARE					
22b	20-1	SPARE					
24c	20-1	SPARE					
26a	–	SPACE					
28b	–	SPACE					
30c	–	SPACE					
32a	–	SPACE					
34b	–	SPACE					
36c	–	SPACE					
38a	30-3	TVSS					
40b	–	–					
42c	–	–					
DEMAND kVA=	12	CONNECTED kVA= 12.2	TOTAL	4	4	4	
		CONNECTED Amps= 14.7					

ELECTRICAL PANEL SCHEDULE

PANEL	URP-0C7	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	300A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	60 CIRCUIT PANEL
REF. DWG. NO			TVSS

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	EMERG. RECEPTACLES (2)	0.4			LAB 026	2#10,#10G-3/4"C
3b	20-1	EMERG. RECEPTACLES (2)		0.4		LAB 024	2#10,#10G-3/4"C
5c	20-1	EMERG. RECEPTACLE (1)			0.2	LAB 024	2#10,#10G-3/4"C
7a	30-3	MECHANICAL TESTING MACHINE FURNACE	2.7			LAB 024	4#10,#10G-3/4"C
9b	–	–		2.7		–	–
11c	–	–			2.7	–	–
13a	30-3	FATIGUE TESTING MACHINE FURNACE	2.7			LAB 024	4#10,#10G-3/4"C
15b	–	–		2.7		–	–
17c	–	–			2.7	–	–
19a	30-2	MECHANICAL TESTING MACHINE	1.8			LAB 024	3#10,#10G-3/4"C
21b		–		1.8			
23c	60-2	TUBE FURNACE			3.8	LAB 025	3#6,#10G-1"C
25a	–	–	3.8			–	–
27b	20-1	TUBE FURNACE VACUUM PUMP		1.5		LAB 025	2#12,#12G-3/4"C
29c	20-1	DSC/TGA ANALYZER & COMPUTER			0.8	LAB 025	2#12,#12G-3/4"C
31a	20-1	DSC/TGA SYSTEM & FLOW CONTROLLER	0.8			LAB 025	2#12,#12G-3/4"C
33b	20-1	DSC/TGA THERMOSTAT		1.9		LAB 025	2#12,#12G-3/4"C
35c	20-2	CVD CLAMSHELL HEATER			0.8	LAB 025	3#12,#12G-3/4"C
37a	–	–	0.8			–	–
39b	20-1	CVD CONTROL BUS/CVD COMPUTER		1.0		LAB 025	2#12,#12G-3/4"C
41c	30-1	BELL JAR VAC. PUMP/COMPUTER SYSTEM			2.0	LAB 025	2#10,#10G-3/4"C
43a	20-1	VACUUM PUMP	0.6			LAB 030	2#12,#12G-3/4"C
45b	20-1	VACUUM PUMP		0.6		LAB 030	2#12,#12G-3/4"C
47c	20-1	VACUUM PUMP			0.6	LAB 030	2#12,#12G-3/4"C
49a	20-1	VACUUM PUMP	0.6			LAB 030	2#12,#12G-3/4"C
51b	60-2	TUBE FURNACE		3.8		LAB 006	3#6,#10G-1"C
53c	–	–			3.8	–	–
55a	20-1	TUBE FURNACE VACUUM PUMP	1.5			LAB 006	2#12,#12G-3/4"C
57b	20-1	SPARE					
59c	20-1	SPARE					
2a	20-1	EMERG. RECEPTACLE (1)	0.2			LAB 032	2#12,#12G-3/4"C
4b	30-1	EMERG. FLOOR BOX RECEPTS – COMPUTERS. (2)		2.0		LAB 029	2#10,#10G-3/4"C
6c	30-1	EMERG. FLOOR BOX RECEPTS – COMPUTERS. (2)			2.0	LAB 029	2#10,#10G-3/4"C
8a	30-1	EMERG. FLOOR BOX RECEPTS – COMPUTERS. (2)	2.0			LAB 029	2#10,#10G-3/4"C
10b	30-1	EMERG. FLOOR BOX RECEPTS – COMPUTERS. (2)		2.0		LAB 029	2#10,#10G-3/4"C
12c	30-1	EMERG. RECEPTACLES – COMPUTERS (2)			2.0	LAB 029	2#10,#10G-3/4"C
14a	30-1	SPARE					
16b	30-2	DSC/TGA CONTROL CABINET– CONNECTION #1		2.7		LAB 025	3#10,#10G-3/4"C
18c	–	–			2.7	–	
20a	30-2	DSC/TGA CONTROL CABINET– CONNECTION #2	1.8			–	3#10,#10G-3/4"C
22b	–	–		1.8		–	
24c	20-3	MASS SPECTROMETER			0.3	LAB 025	4#12,#12G-3/4"C
26a	–	–	0.3			–	–
28b				0.3		–	–
30c	20-3	GAMMA SOURCE HOIST			1.3	LAB 007B	4#12,#12G-3/4"C
32a	–	–	1.3			–	–
34b				1.3		–	
36c	20-1	GAS DETECTION PANEL			1.0	SERVICE CORRIDOR	2#10,#10G-3/4"C
38a	20-1	SPARE					
40b	20-1	SPARE					
42c	20-1	SPARE					
44a	20-1	SPARE					
46b	20-1	SPARE					
48c	20-1	SPARE					
50a	20-1	SPARE					
52b	20-1	SPARE					
54c	20-1	SPARE					
56a	30-3	TVSS					
58b	–	–					
60c	–	–					
DEMAND kVA=	57.8	CONNECTED kVA= 74.2	TOTAL	21	26	27	
DEMAND Amps =	160.5	CONNECTED Amps= 205.9					

1

NOTES:

1. ALL BRANCH CIRCUIT BREAKERS ARE 20A, 1P UNLESS OTHERWISE NOTED.
2. TRIANGLE AROUND CIRCUIT NUMBER INDICATES CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER.
3. CIRCLE AROUND CIRCUIT NUMBER INDICATES HANDLE LOCK DEVICE.
4. ROOM NUMBER ON THIS DRAWING SHOULD MATCH COMPANION PLAN DRAWINGS. THE ROOM NUMBERS ARE NOT FINAL USC ROOM NUMBERS. SUBMITTAL OF PANEL SCHEDULES SHALL REFLECT ROOM NUMBER PER A SERIES DRAWINGS AND CLOSE OUT DRAWINGS SHALL BE MARKED WITH FINAL ROOM NUMBERS.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES

ELECTRICAL PANEL SCHEDULE

PANEL	RP-0E2	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	150A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	REFRIGERATOR RECEPTACLE (1)	1.8			BREAKOUT 019	2#12,#12G-3/4"C
3b	20-1	RECEPTACLES		0.8			
5c	20-1	RECEPTACLES			0.8		
7a	20-1	FLOOR BOX (2)	0.8			BREAKOUT 019	2#12,#12G-3/4"C
9b	20-1	RECEPTACLES (4)		0.8		OFFICE 018	2#12,#12G-3/4"C
11c	20-1	RECEPTACLES (2)			0.4	OFFICE 017	2#12,#12G-3/4"C
13a	20-1	RECEPTACLES (2)	0.4			OFFICE 016	2#12,#12G-3/4"C
15b	20-1	RECEPTACLES (2)		0.4		OFFICE 015	2#12,#12G-3/4"C
17c	20-1	RECEPTACLES (2)			0.4	OFFICE 014	2#12,#12G-3/4"C
19a	20-1	RECEPTACLES (2)	0.4			OFFICE 013	2#12,#12G-3/4"C
21b	30-1	RECEPTACLES (3)		0.6		GRAD STUDENTS 020	2#10,#10G-3/4"C
23c	30-1	QUAD RECEPTACLES (1)			0.4	GRAD STUDENTS 020	2#10,#10G-3/4"C
25a	30-1	QUAD RECEPTACLES (1)	0.4			GRAD STUDENTS 020	2#10,#10G-3/4"C
27b	30-1	RECEPTACLES (3)		0.6		GRAD STUDENTS 020	2#10,#10G-3/4"C
29c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENTS 020	2#10,#10G-3/4"C
31a	30-1	QUAD RECEPTACLES (1)	0.4			GRAD STUDENTS 020	2#10,#10G-3/4"C
33b	30-1	QUAD RECEPTACLES (1)		0.4		GRAD STUDENTS 020	2#10,#10G-3/4"C
35c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENTS 020	2#10,#10G-3/4"C
37a	20-1	RECEPTACLES (2)	0.4			OFFICE 038	2#12,#12G-3/4"C
39b	30-1	RECEPTACLES (2)		0.4		GRAD STUDENTS 037	2#10,#10G-3/4"C
41c	30-1	QUAD RECEPTACLES (1)			0.4	GRAD STUDENTS 037	2#10,#10G-3/4"C
43a	30-1	RECEPTACLES (3)	0.6			BREAKOUT 019	2#12,#12G-3/4"C
45b	20-1	RECEPTACLES (4)		0.8		BREAKOUT 019	2#12,#12G-3/4"C
47c	20-1	RECEPTACLES			0.6	KITCHEN 029	
49a	20-1	RECEPTACLES	0.6			CORRIDOR	
51b	30-1	QUAD RECEPTACLES (1)		0.4		GRAD STUDENTS 037	2#10,#10G-3/4"C
53c	30-1	QUAD RECEPTACLES (1)			0.4	GRAD STUDENTS 037	2#10,#10G-3/4"C
55a	30-1	QUAD RECEPTACLES (1)	0.4			GRAD STUDENTS 037	2#10,#10G-3/4"C
57b	30-1	QUAD RECEPTACLES (1)		0.4		GRAD STUDENTS 037	2#10,#10G-3/4"C
59c	30-1	QUAD RECEPTACLES (1)			0.4	GRAD STUDENTS 037	2#10,#10G-3/4"C
61a	30-1	RECEPTACLES (5)	1.2			GRAD 020, CORR. H04, H03	2#12,#12G-3/4"C
63b	30-1	RECEPTACLES (6)			1.2	GRAD 037, CORR. H05,H04	2#12,#12G-3/4"C
65c	–	SPACE					
67a	–	SPACE					
69b	30-3	TVSS					
71c	–	–					
73a	–	–					
DEMAND kVA=	16	CONNECTED kVA= 21.0	TOTAL	8	6	7	
DEMAND Amps =	45.5	CONNECTED Amps= 58.3					

ELECTRICAL PANEL SCHEDULE

PANEL	RP-0C9	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	150A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	RECEPTACLES	0.8			001 AND STAIR 2	
3b	20-1	RECEPTACLES		1.2		003, 004, 005	
5c	20-1	RECEPTACLES (2)			0.4	OFFICE 012	2#12,#12G-3/4"C
7a	20-1	RECEPTACLES (2)	0.4			OFFICE 011	2#12,#12G-3/4"C
9b	20-1	RECEPTACLES (2)		0.4		OFFICE 010	2#12,#12G-3/4"C
11c	20-1	RECEPTACLES (2)			0.4	OFFICE 009	2#12,#12G-3/4"C
13a	20-1	RECEPTACLES (2)	0.4			OFFICE 008	2#12,#12G-3/4"C
15b	30-1	RECEPTACLES (3)		0.6		GRAD STUDENTS 022	2#10,#10G-3/4"C
17c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENTS 022	2#10,#10G-3/4"C
19a	30-1	RECEPTACLES (3)	0.6			GRAD STUDENTS 023	2#10,#10G-3/4"C
21b	30-1	RECEPTACLES (2)		0.4		GRAD STUDENTS 023	2#10,#10G-3/4"C
23c	30-1	RECEPTACLES (2)			0.4	GRAD STUDENTS 023	2#10,#10G-3/4"C
25a	20-1	RECEPTACLES (4)	0.8			CORRIDOR H03	2#12,#12G-3/4"C
27b	20-1	RECEPTACLES (4)		0.8		CORR H03, GRAD 022,023	2#12,#12G-3/4"C
29c	20-1	EWC			0.7	CORRIDOR H02	2#12,#12G-3/4"C
31a	30-1	HAND DRYER	2.0			WOMEN 005	2#10,#10G-3/4"C
33b	30-1	HAND DRYER		2.0		MEN 004	2#10,#10G-3/4"C
35c	20-1	RECEPTACLES (4)			2.8	MEN 004, WOMEN 005	2#12,#12G-3/4"C
37a	20-1	RECEPTACLES (3)	1.0			CORRIDORS	2#12,#12G-3/4"C
39b	–	SPACE					
41c	–	SPACE					
2a	20-1	RECEPTACLES	0.8			CORRIDOR	
4b	20-1	RECEPTACLES		1.4		MECHANICAL 061	
6c	20-1	RECEPTACLES			1.4	MECHANICAL 061	
8d	20-1	SPARE					
10b	20-1	SPARE					
12c	20-1	SPARE					
14a	20-1	SPARE					
16b	20-1	STM WH-1	1.1				
18c	20-1	STM WH-2		1.1			
20a	20-1	DCP-1	1.1				
22b	20-2	DCP-2		1.1			
24c	20-1	SPARE					
26a	20-1	SPARE					
28b	–	SPACE					
30c	–	SPACE					
32a	–	SPACE					
34b	–	SPACE					
36c	–	SPACE					
38a	30-3	TVSS					
40b	–	–					
42c	–	–					
DEMAND kVA=	21	CONNECTED kVA= 22.7	TOTAL	7.9	9.0	5.8	
DEMAND Amps =	58.0	CONNECTED Amps= 63.0					

ELECTRICAL PANEL SCHEDULE

PANEL	ERP-002	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	150A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	RECEPTACLES	2.6			ELEC. ROOM 042	2#12,#12G-3/4"C
3b	20-1	SPARE					
5c	20-1	SPACE					
7a	20-1	SPACE					
9b	20-1	SPACE					
11c	20-1	SPACE					
13a	20-1	SPACE					
15b	20-1	SPACE					
17c	20-1	SPACE					
19a	20-1	SPACE					
21b	20-1	SPACE					
23c	20-1	SPACE					
25a	–	SPACE					
27b	–	SPACE					
29c	–	SPACE					
31a	–	SPACE					
33b	–	SPACE					
35c	–	SPACE					
37a	–	SPACE					
39b	–	SPACE					
41c	–	SPACE					
2a	20-1	EMERGENCY GENERATOR	3.0				2#12,#12G-3/4"C
4b	20-1	EMERGENCY GENERATOR		2.8			2#12,#12G-3/4"C
6c	20-1	EMERGENCY GENERATOR			2.8		2#12,#12G-3/4"C
8d	20-1	SPARE					
10b	20-1	SPACE					
12c	20-1	SPACE					
14a	20-1	SPACE					
16b	20-1	SPACE					
18c	20-1	SPACE					
20a	20-1	SPACE					
22b	20-1	SPACE					
24c	20-1	SPACE					
26a	–	SPACE					
28b	–	SPACE					
30c	–	SPACE					
32a	–	SPACE					
34b	–	SPACE					
36c	–	SPACE					
38a	30-3	TVSS					
40b	–	–					
42c	–	–					
DEMAND kVA=	6.6	CONNECTED kVA= 6.6	TOTAL	4	2	2	
		CONNECTED Amps= 18.3					

SOUTH CAROLINA
SSOE, INC.
No. C 00746
CERTIFICATE OF AUTHORIZATION

innovista
University of South Carolina

STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

WATSON TATE SAVORY

Ground Floor Panelboard Schedules

P.O. BOX 8444, COLUMBIA, SC 29202 | 516 WASHINGTON STREET, COLUMBIA, SC 29201

E6.01

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

ELECTRICAL PANEL SCHEDULE

PANEL	LP-4E2	BLDG	DATE
TYPE	480Y/277V-3PH-4W	LOCATION	4TH FLR ELEC RM.
MOUNTING	Surface		
MAIN	200A MB	TOP or BOTTOM	TOP
RATING	65KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	LIGHTS	0.8			ELEC RM 430/DATA 444/HANDICAP VESTIBULE	
3b	20-1	LIGHTS		0.7		TEMP. AREA LIGHTING	
5c	20-1	LIGHTS			0.8	CORRY 402/JANITOR 435	
7a	20-1	LIGHTS	0.5			STAIR 1 LIGHTING	
9a	20-1	SPARE					
11c	20-1	SPARE					
13a	20-1	SPARE					
15b	20-1	SPARE					
17c	20-1	SPARE					
19a	20-1	SPARE					
21b	20-1	SPARE					
23c	20-1	SPARE					
25a	20-1	SPARE					
27b	20-1	SPARE					
29c	20-1	SPARE					
31a	-	SPACE					
33b	-	SPACE					
35c	-	SPACE					
37a	-	SPACE					
39b	-	SPACE					
41c	-	SPACE					
2a	20-1	LIGHTS	3.1			WEST OFFICES	2#10,#10G-3/4"C
4b	20-1	LIGHTS		3.3		WEST OFFICES/NORTH CONF & BREAK RM.	2#10,#10G-3/4"C
6c	20-1	LIGHTS			2.8	WEST LABS	2#10,#10G-3/4"C
8a	20-1	LIGHTS	2.3			WEST LABS/RESTROOMS/SERVICE CORRIDOR	2#10,#10G-3/4"C
10b	20-1	LIGHTS		3.5		EAST OFFICES	2#10,#10G-3/4"C
12c	20-1	LIGHTS			2.3	EAST LABS	2#10,#10G-3/4"C
14a	20-1	LIGHTS	3.1			EAST OFFICES	2#10,#10G-3/4"C
16b	20-1	LIGHTS		2.6		CORRIDORS/SERVICE CORRIDORS	2#10,#10G-3/4"C
18c	20-1	SPARE					
20a	20-1	SPARE					
22b	20-1	SPARE					
24c	20-1	SPARE					
26a	20-1	SPARE					
28b	20-1	SPARE					
30c	20-1	SPARE					
32a	-	SPACE					
34b	-	SPACE					
36c	-	SPACE					
38a	30-3	TVSS					
40b	-	-					
42c	-	-					
DEMAND kVA=	26	CONNECTED kVA=	25.9	TOTAL	10	10	6
		CONNECTED Amps=	31.2				

ELECTRICAL PANEL SCHEDULE

PANEL	ELP-4E2	BLDG	DATE
TYPE	480Y/277V-3PH-4W	LOCATION	ELEC. RM. 430
MOUNTING	Surface		
MAIN	200A MB	TOP or BOTTOM	TOP
RATING	65KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	70-3	ERP-4E2 VIA XFMR	1.1			4TH FLR. ELEC. RM.	
3b	-	-		0.8		-	
5c	-	-			1.5	-	
7a	20-1	SPARE					
9a	20-1	SPARE					
11c	20-1	LIGHTS			1.0	STR 3 & PENTHOUS	
13a	20-1	LIGHTS	1.0			STR 2 & 3 EGRESS	
15b	20-1	LIGHTS		1.5		STR 3 & 2 EGRESS	
17c	20-1	LIGHTS			1.5	THIRD FLR UPFIT EGRESS	
19a	20-1	EMERGENCY LIGHTS	1.5			4TH FLR UPFIT EGRESS - SOUTH	2#10,#10G-3/4"C
21b	20-1	EMERGENCY LIGHTS		1.8		4TH FLR. UPFIT EGRESS - NORTH	2#10,#10G-3/4"C
23c	20-1	SPARE					
25a	20-1	SPARE					
27b	20-1	SPARE					
29c	20-1	SPARE					
31a	-	SPACE					
33b	-	SPACE					
35c	-	SPACE					
37a	-	SPACE					
39b	-	SPACE					
41c	-	SPACE					
2a	70-3	SPARE					
4b	-	-					
6c	-	-					
8a	20-1	SPARE					
10b	20-1	LIGHTS		0.2		ELEC. ROOM	
12c	20-1	LIGHTS			1.0	SHELL SPACE	
14a	20-1	LIGHTS	1.8			LOBBY	
16b	20-1	LIGHTS		1.9		STAIR #1	
18c	20-1	SPARE					
20a	20-1	SPARE					
22b	20-1	SPARE					
24c	20-1	SPARE					
26a	20-1	SPARE					
28b	20-1	SPARE					
30c	20-1	SPARE					
32a	-	SPACE					
34b	-	SPACE					
36c	-	SPACE					
38a	30-3	TVSS					
40b	-	-					
42c	-	-					
DEMAND kVA=	14	CONNECTED kVA=	13.9	TOTAL	5	5	5
		CONNECTED Amps=	16.7				

ELECTRICAL PANEL SCHEDULE

PANEL	RP-4E2	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	150A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	RECEPTACLES (5)	1.0			CORRIDOR H403,H404	2#12,#12G-3/4"C
3b	20-1	RECEPTACLES		0.8		SHELL SPACE	2#12,#12G-3/4"C
5c	20-1	RECEPTACLES (2)			0.4	OFFICE 412D	2#12,#12G-3/4"C
7a	20-1	RECEPTACLES (2)	0.4			OFFICE 412C	2#12,#12G-3/4"C
9b	20-1	RECEPTACLES (2)		0.4		OFFICE 412B	2#12,#12G-3/4"C
11c	20-1	RECEPTACLES (2)			0.4	SERVER 414	2#12,#12G-3/4"C
13a	20-1	QUAD RECEPTACLES (1)	0.4			OPEN OFFICE 412	2#12,#12G-3/4"C
15b	20-1	QUAD RECEPTACLES (1)		0.4		OPEN OFFICE 412	2#12,#12G-3/4"C
17c	20-1	QUAD RECEPTACLES (1)			0.4	OPEN OFFICE 412	2#12,#12G-3/4"C
19a	20-1	QUAD RECEPTACLES (1)	0.4			OPEN OFFICE 412	2#12,#12G-3/4"C
21b	20-1	RECEPTACLES (3)		0.6		OPEN OFFICE 412	2#12,#12G-3/4"C
23c	20-1	RECEPTACLES (3)			0.6	OPEN OFFICE 412	2#12,#12G-3/4"C
25a	20-1	RECEPTACLES (3)	0.6			OPEN OFFICE 412	2#12,#12G-3/4"C
27b	20-1	RECEPTACLES (3)		0.6		OFFICE 412A	2#12,#12G-3/4"C
29c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENTS 411	2#10,#10G-3/4"C
31a	30-1	RECEPTACLES (3)	0.6			GRAD STUDENTS 411	2#10,#10G-3/4"C
33b	30-1	RECEPTACLES (3)		0.6		GRAD STUDENTS 411	2#10,#10G-3/4"C
35c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENTS 411	2#10,#10G-3/4"C
37a	20-1	RECEPTACLES (3)	0.6			OFFICE 424A	2#12,#12G-3/4"C
39b	20-1	RECEPTACLES (2)		0.4		SERVER 424B	2#12,#12G-3/4"C
41c	20-1	RECEPTACLES (2)			0.4	OFFICE 424C	2#12,#12G-3/4"C
2a	20-1	RECEPTACLES	1.2			SHELL SPACE/CORR 435	2#12,#12G-3/4"C
4b	20-1	RECEPTACLES (2)		0.4		OFFICE 424D	2#12,#12G-3/4"C
6c	20-1	RECEPTACLES (2)			0.4	OFFICE 424	2#12,#12G-3/4"C
8a	20-1	RECEPTACLE	0.2			OFFICE 424	2#12,#12G-3/4"C
10b	20-1	RECEPTACLES (3)		0.6		OFFICE 434	2#12,#12G-3/4"C
12c	20-1	RECEPTACLES (2)			0.4	OFFICE 434	2#12,#12G-3/4"C
14a	20-1	RECEPTACLES (2)	0.4			OFFICE 433	2#12,#12G-3/4"C
16b	20-1	RECEPTACLES (2)		0.4		OFFICE 432	2#12,#12G-3/4"C
18c	20-1	RECEPTACLES (2)			0.4	OFFICE 431	2#12,#12G-3/4"C
20a	20-1	RECEPTACLES (3)	0.6			OFFICE 430	2#12,#12G-3/4"C
22b	20-1	RECEPTACLES (3)		0.6		OFFICE 429	2#12,#12G-3/4"C
24c	20-1	FLOOR BOX			0.4	OFFICE 429	2#12,#12G-3/4"C
26a	20-1	RECEPTACLES (3)	0.6			OFFICE 429	2#12,#12G-3/4"C
28b	20-1	RECEPTACLES (2)		0.4		OFFICE 426	2#12,#12G-3/4"C
30c	20-1	RECEPTACLES (2)			0.4	OFFICE 425	2#12,#12G-3/4"C
32a	20-1	EWC	0.7			CORRIDOR H404A	2#12,#12G-3/4"C
34b	20-1	RECEPTACLES (4)		0.8		CORR. H404A,H405,H406	2#12,#12G-3/4"C
36c	20-1	SPARE					
38a	30-3	TVSS					
40b	-	-					
42c	-	-					
DEMAND kVA=	15	CONNECTED kVA=	20.1	TOTAL	8	7	5
DEMAND Amps =	44.6	CONNECTED Amps=	55.8				

ELECTRICAL PANEL SCHEDULE

PANEL	ERP-4E2	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	150A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	RECEPTACLES	0.9			ELEC ROOM	2#12,#12G-3/4"C
3b	20-1	SPARE					
5c	20-1	SPARE					
7a	20-1	CAR LIGHTS	0.1			ELEV. ROOM	2#12,#12G-3/4"C
9b	20-1	RECEPTACLES		0.6		4TH FLR DATA ROOM	2#12,#12G-3/4"C
11c	20-1	RECEPTACLES			0.6	4TH FLR DATA ROOM	2#12,#12G-3/4"C
13a	20-1	SPARE					
15b	20-1	SPARE					
17c	20-1	SPARE					
19a	20-1	SPARE					
21b	20-1	SPARE					
23c	-	SPACE					
25a	-	SPACE					
27b	-	SPACE					
29c	-	SPACE					
31a	-	SPACE					
33b	-	SPACE					
35c	-	SPACE					
37a	-	SPACE					
39b	-	SPACE					
41c	-	SPACE					
2a	20-1	SHUNT TRIP	0.2			ELEV #3	2#12,#12G-3/4"C
4b	20-1	SPARE					
6c	20-1	ELEV RECEPT			0.2	ELEVATOR	2#12,#12G-3/4"C
8a	20-1	FIRE ALARM ICAB	0.2				2#12,#12G-3/4"C
10b	20-1	PENT/4TH SMK		0.2			2#12,#12G-3/4"C
12c	20-1	PENT/4TH SMK DMP			0.2		2#12,#12G-3/4"C
14a	20-1	SPARE					
16b	20-1	SPARE					
18c	20-1	SPARE					
20a	20-1	SPARE					
22b	-	SPACE					
24c	-	SPACE					
26a	-	SPACE					
28b	-	SPACE					
30c	-	SPACE					
32a	-	SPACE					
34b	-	SPACE					
36c	-	SPACE					
38a	30-3	TVSS					
40b	-	-					
42c	-	-					
DEMAND kVA=	2.9	CONNECTED kVA=	2.9	TOTAL	1	1	1
		CONNECTED Amps=	8.0				

ELECTRICAL PANEL SCHEDULE

PANEL	URP-4C6.5	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	35A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	18 CIRCUIT PANEL
REF. DWG. NO			TVSS

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	OHSC RECEPTACLES (2)	0.4			LAB 415	2#12,#12G-3/4"C
3b	20-1	OHSC RECEPTACLES (2)		0.4		LAB 415	2#12,#12G-3/4"C
5c	20-1	OHSC RECEPTACLES (2)			0.4	LAB 421	2#12,#12G-3/4"C
7a	20-1	OHSC RECEPTACLES (2)	0.4			LAB 421	2#12,#12G-3/4"C
9b	20-1	OHSC RECEPTACLES (2)		0.4		LAB 420	2#12,#12G-3/4"C
11c	20-1	OHSC RECEPTACLES (2)			0.4	LAB 420	2#12,#12G-3/4"C
13a	20-1	OHSC RECEPTACLES (2)	0.4			LAB 420	2#12,#12G-3/4"C
15b	20-1	SPARE					
17c	20-1	SPARE					
19a	20-1	GAS DETECTION PANEL	1.0			SERVICE CORRIDOR	2#12,#12G-3/4"C
21b	20-1	SPARE					
23c	20-1	SPARE					
25a	20-1	SPARE					
27b	20-1	SPARE					
29c	20-1	SPARE					
31a	30-3	TVSS					
33b	-	-					
35c	-	-					
DEMAND kVA=	3.6	CONNECTED kVA=	3.8	TOTAL	2	1	1
DEMAND Amps =	9.9	CONNECTED Amps=	10.5				

ELECTRICAL PANEL SCHEDULE

PANEL	RP-4D9.5	BLDG	DATE
TYPE	208Y/120V-3PH-4W	LOCATION	
MOUNTING	Surface		
MAIN	150A MB	TOP or BOTTOM	TOP
RATING	10KAIC		
		NOTES	
REF. DWG. NO			

Circuit No. & Phase	Amp Rating & Poles	LOAD DESCRIPTION	KVA a	KVA b	KVA c	LOCATION	Wire Size AWG
1a	20-1	RECEPTACLES (3)	0.6			OFFICE 435	2#12,#12G-3/4"C
3b	20-1	RECEPTACLES (2)		0.4		OFFICE 436	2#12,#12G-3/4"C
5c	20-1	RECEPTACLES (2)			0.4	OFFICE437	2#12,#12G-3/4"C
7a	20-1	RECEPTACLES (2)	0.4			OFFICE438	2#12,#12G-3/4"C
9b	20-1	RECEPTACLES (3)		0.6		OFFICE439	2#12,#12G-3/4"C
11c	20-1	RECEPTACLES (3)			0.6	OFFICE 401	2#12,#12G-3/4"C
13a	20-1	RECEPTACLES (4)	0.8			OFFICE 402	2#12,#12G-3/4"C
15b	20-1	RECEPTACLES (2)		0.4		OFFICE 403	2#12,#12G-3/4"C
17c	20-1	RECEPTACLES (4)			0.8	OFFICE 404	2#12,#12G-3/4"C
19a	20-1	RECEPTACLES (1)	0.2			BREAKROOM 404	2#12,#12G-3/4"C
21b	20-1	RECEPTACLES (2)		0.4		BREAKROOM 404	2#12,#12G-3/4"C
23c	20-1	REFRERIGERATOR			1.8	BREAKROOM 404	2#12,#12G-3/4"C
25a	20-1	REFRERIGERATOR	1.8			BREAKROOM 404	2#12,#12G-3/4"C
27b	20-1	RECEPTACLES (4)		0.8		BREAKROOM 404	2#12,#12G-3/4"C
29c	20-1	RECEPTACLES (4)			0.8	MEN 405, WOMEN 406	2#12,#12G-3/4"C
31a	30-1	HAND DRYER	2.0			WOMEN 406	2#10,#10G-3/4"C
33b	30-1	HAND DRYER		2.0		MEN 405	2#10,#10G-3/4"C
35c	20-1	EWC			0.7	VESTIBULE V401	2#12,#12G-3/4"C
37a	20-1	RECEPTACLES (6)	1.2			CORRIDOR H402,H403	2#12,#12G-3/4"C
39b	20-1	RECEPTACLES (5)		1.0		CORRIDOR H405, H406	2#12,#12G-3/4"C
41c	20-1	SPARE					
2a	30-1	RECEPTACLES (3)	0.6			GRAD STUDENT 407	2#10,#10G-3/4"C
4b	30-1	RECEPTACLES (2)		0.4		GRAD STUDENT 407	2#10,#10G-3/4"C
6c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENT 407	2#10,#10G-3/4"C
8a	30-1	RECEPTACLES (3)	0.6			GRAD STUDENT 408	2#10,#10G-3/4"C
10b	30-1	RECEPTACLES (3)		0.6		GRAD STUDENT 408	2#10,#10G-3/4"C
12c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENT 410	2#10,#10G-3/4"C
14a	30-1	RECEPTACLES (3)	0.6			GRAD STUDENT 410	2#10,#10G-3/4"C
16b	30-1	RECEPTACLES (3)		0.6		GRAD STUDENT 410	2#10,#10G-3/4"C
18c	30-1	RECEPTACLES (3)			0.6	GRAD STUDENT 410	2#10,#10G-3/4"C
20a	30-1	RECEPTACLES (3)	0.6			GRAD STUDENT 410	2#10,#10G-3/4"C
22b	30-1	RECEPTACLES (3)		0.6		GRAD STUDENT 410	2#10,#10G-3/4"C
24c	30-1	RECEPTACLES (2)			0.4	GRAD STUDENT 410	2#10,#10G-3/4"C
26a	30-1	RECEPTACLES (3)	0.6			GRAD STUDENT 408,410	2#10,#10G-3/4"C
28b	20-1	SPARE					
30c	20-1	SPARE					
32a	20-1	SPARE					
34b	20-1	SPARE					
36c	20-1	SPARE					
38a	30-3	TVSS					
40b	-	-					
42c	-	-					
DEMAND kVA=	21.7	CONNECTED kVA=	25.1	TOTAL	10	8	7
DEMAND Amps =	60.2	CONNECTED Amps=	69.7				

NOTES:

1. ALL BRANCH CIRCUIT BREAKERS ARE 20A, 1P UNLESS OTHERWISE NOTED.
2. TRIANGLE AROUND CIRCUIT NUMBER INDICATES CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER.
3. CIRCLE AROUND CIRCUIT NUMBER INDICATES HANDLE LOCK DEVICE.
4. ROOM NUMBER ON THIS DRAWING SHOULD MATCH COMPANION PLAN DRAWINGS. THE ROOM NUMBERS ARE NOT FINAL USC ROOM NUMBERS. SUBMITTAL OF PANEL SCHEDULES SHALL REFLECT ROOM NUMBER PER A SERIES DRAWINGS AND CLOSE OUT DRAWINGS SHALL BE MARKED WITH FINAL ROOM NUMBERS.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES

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STATE PROJECT NO.: H27-6081-AC

HORIZON I
GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/17/13	ADDENDUM 1
2	07/25/13	ADDENDUM 2

SOUTH CAROLINA
SSOE, INC.
No. C 00746
CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

Fourth Floor Panel Schedules

P.O. BOX 8444, COLUMBIA, SC 29202 1316 WASHINGTON STREET, COLUMBIA, SC 29201

E6.41

WTS NO.: 11700 | JUNE 17, 2013

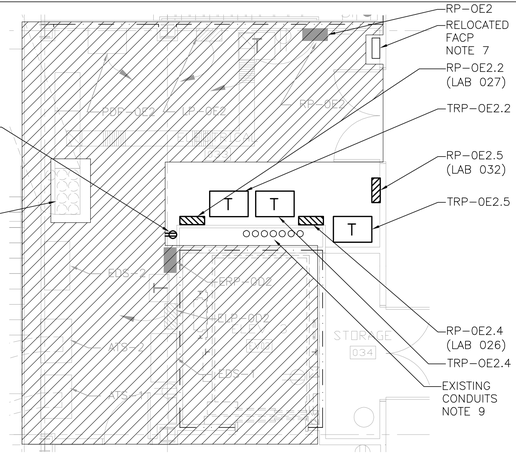
BIDDING DOCUMENTS

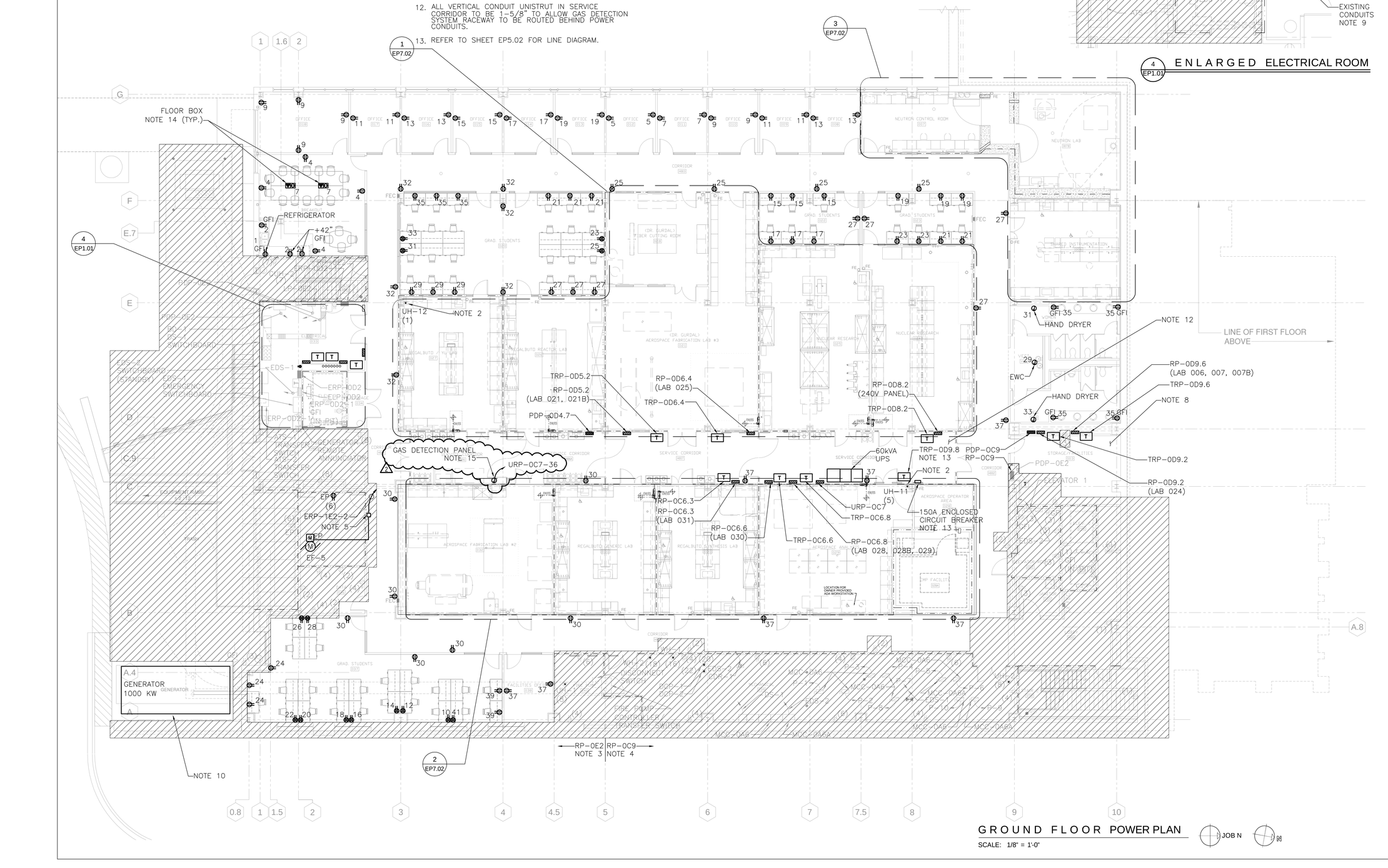
NOTES:

1. SEE DRAWING E6.00 FOR SYMBOL SCHEDULE AND GENERAL NOTES.
2. DISCONNECT UNIT HEATERS AND REMOVE ASSOCIATED CONDUIT/WIRE BACK TO PANELBOARD. LABEL ASSOCIATED CIRCUIT BREAKERS AS "SPARE".
3. ALL 120V RECEPTACLES AND DEVICES ON THIS SHEET THAT ARE LOCATED SOUTH OF COLUMN LINE 5 SHALL BE FED FROM RP–0E2 UNLESS NOTED OTHERWISE.
4. ALL 120V RECEPTACLES AND DEVICES ON THIS SHEET THAT ARE LOCATED NORTH OF COLUMN LINE 5 SHALL BE FED FROM RP–0C9 UNLESS NOTED OTHERWISE.
5. BREAK GLASS SWITCH MANUAL SHUTOFF SWITCH.
6. ALL FIRE–PROOFING SHALL BE BY GENERAL CONTRACTOR. ELECTRICAL WORK THAT CROSSES FIRE RATED WALLS SHALL BE RESTORED USING UL MATERIALS TO RESTORE FIRE WALL INTEGRITY. REFER TO DRAWING A2.01 FOR WALL FIRE RATINGS (PARTITION TYPES). G.C. SHALL PROVIDE SHOP DRAWINGS OF UL LISTED FIRE STOPPING SYSTEMS FOR APPROVAL BY DESIGNER/ENGINEER OF RECORD.
7. FIRE ALARM CONTRACTOR TO RELOCATE GROUND FLOOR FACP TO LOCATION INDICATED. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED. REFER TO SHEET EA1.01 FOR ADDITIONAL DETAILS.
8. DISCONNECT AND REMOVE ANY ELECTRICAL DEVICES AND EQUIPMENT ASSOCIATED WITH NITROGEN GENERATOR. REMOVE ASSOCIATED CONDUIT/WIRE BACK TO PANELBOARD. LABEL ASSOCIATED CIRCUIT BREAKERS AS "SPARE".
9. NEW WALL IS TO BE INSTALLED AROUND EXISTING CONDUITS. EXISTING FIRE ALARM CONTROL PANEL AND RECEPTACLE ARE TO BE RELOCATED AS INDICATED.
10. PROVIDE NEW 1000KW GENERATOR TO REPLACE EXISTING 800KW GENERATOR. THE EC WILL DISCONNECT THE EXISTING GENERATOR, USC WILL PICK UP AND TAKE (TO BE KEPT BY USC) THE EXISTING GENERATOR. EC WILL THEN INSTALL NEW GENERATOR. THE SPECIFIC DATE AND TIME FOR INSTALLING NEW GENERATOR SHALL BE CLOSELY COORDINATED WITH THE EXISTING OPERATIONS OF HORIZON. THIS COORDINATION OF A SPECIFIC SHORT DURATION OF DISCONTINUATION OF EMERGENCY POWER SERVICE IS CRITICAL. USC IS CAPABLE OF PICKING AND TAKING THE EXISTING GENERATOR AT ANY POINT DURING THE PROJECT. EC SHALL ALSO CLOSELY COORDINATE WITH NEW GENERATOR MANUFACTURER'S REP.
11. REPLACE EXISTING 3000A MAIN LUG ONLY SECTION WITH NEW 3000A MAIN BREAKER SECTION. REFER TO SHEET EP5.67 FOR ONE LINE DIAGRAM.
12. ALL VERTICAL CONDUIT UNISTRUT IN SERVICE CORRIDOR TO BE 1–5/8" TO ALLOW GAS DETECTION SYSTEM RACEWAY TO BE ROUTED BEHIND POWER CONDUITS.
13. REFER TO SHEET EP5.02 FOR LINE DIAGRAM.
14. ALL CUTTING AND PATCHING OF EXISTING FLOOR FOR INSTALL BELOW FLOOR SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
15. COORDINATE EXACT LOCATION WITH GAS DETECTION CONTRACTOR.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES





GROUND FLOOR POWER PLAN

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

JOB N

N

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/17/13	ADDENDUM 1
2	07/25/13	ADDENDUM 2

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SSOE, INC.
No. C 00746

WATSON TATE SAVORY

Ground Floor Plan Power

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

EP1.01

WTS NO.: 11700 | JUNE 17, 2013

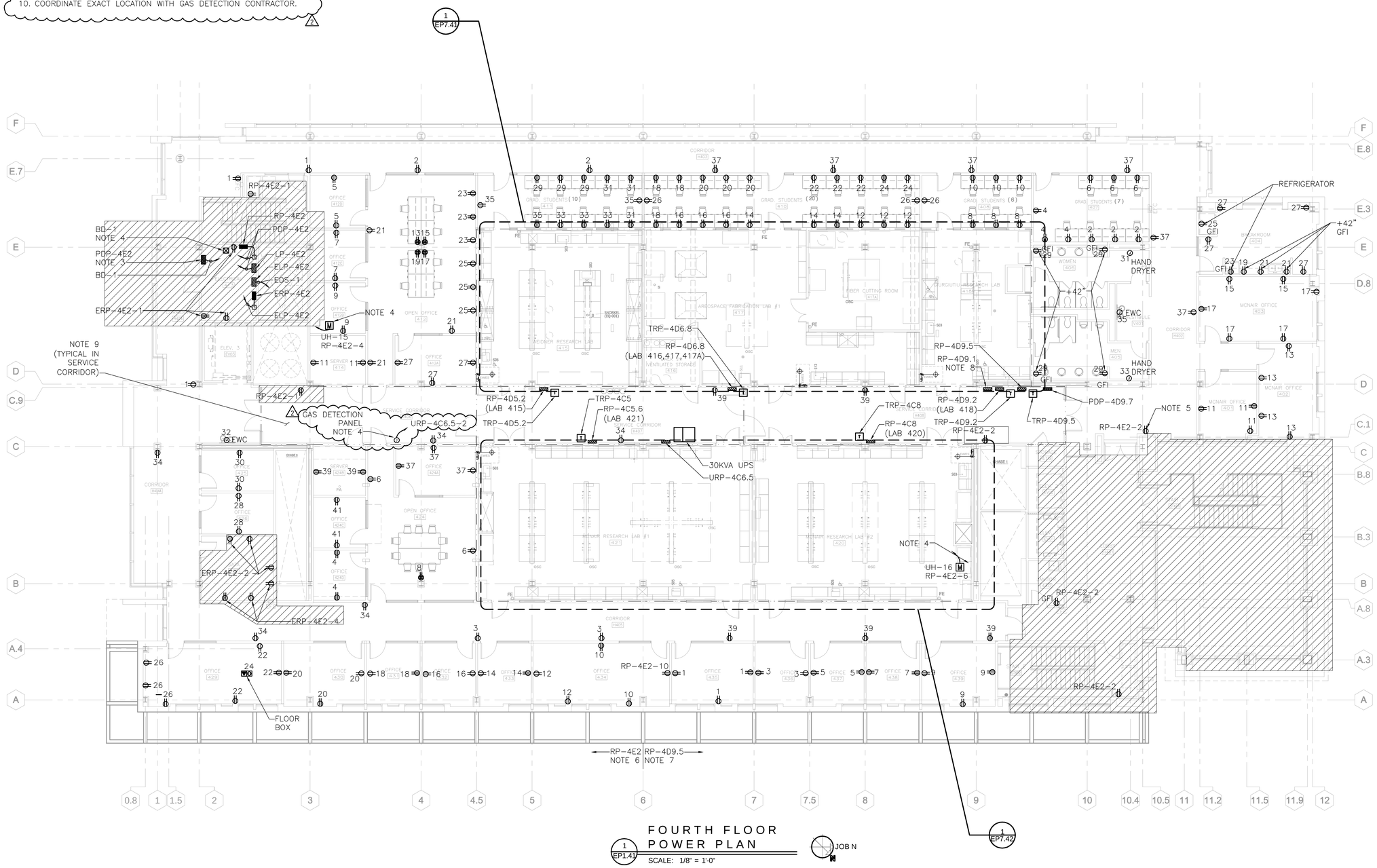
BIDDING DOCUMENTS

NOTES:

1. SEE DRAWING E6.00 FOR SYMBOL SCHEDULE AND GENERAL NOTES.
2. ALL LIGHTING AND RECEPTACLE PANELBOARDS SHALL BE SURFACE MOUNT UNLESS NOTED OTHERWISE. SEE DRAWING E6.41 AND E6.51 FOR PANELBOARD SCHEDULES.
3. ALL FIRE-PROOFING SHALL BE BY GENERAL CONTRACTOR. ELECTRICAL WORK THAT CROSSES FIRE RATED WALLS SHALL BE RESTORED USING UL MATERIALS TO RESTORE FIRE WALL INTEGRITY. REFER TO DRAWING A2.41 FOR WALL FIRE RATINGS (PARTITION TYPES). G.C. SHALL PROVIDE SHOP DRAWINGS OF UL LISTED FIRE STOPPING SYSTEMS FOR APPROVAL BY DESIGNER/ENGINEER OF RECORD.
4. DISCONNECT UNIT HEATERS AND REMOVE ASSOCIATED CONDUIT/WIRE BACK TO PANELBOARD. LABEL ASSOCIATED CIRCUIT BREAKERS AS "SPARE".
5. RECEPTACLE IS RELOCATED FROM COLUMN C.1/11.2 TO ADJACENT WALL AS INDICATED.
6. ALL 120V RECEPTACLES & DEVICES ON THIS SHEET THAT ARE LOCATED SOUTH OF COLUMN 6 SHALL BE FED FROM RP-4E2 UNLESS NOTED OTHERWISE.
7. ALL 120V RECEPTACLES & DEVICES ON THIS SHEET THAT ARE LOCATED NORTH OF COLUMN 6 SHALL BE FED FROM RP-4D9.5 UNLESS NOTED OTHERWISE.
8. SUB-FED FROM 240V PANEL RP-0D8.2 LOCATED ON GROUND FLOOR.
9. ALL VERTICAL CONDUIT UNISTRUT IN SERVICE CORRIDOR TO BE 1-5/8" TO ALLOW GAS DETECTION SYSTEM RACEWAY TO BE ROUTED BEHIND POWER CONDUITS.
10. COORDINATE EXACT LOCATION WITH GAS DETECTION CONTRACTOR.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES



FOURTH FLOOR POWER PLAN

1 EP1.41

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

JOB N

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/17/13	ADDENDUM 1
2	07/25/13	ADDENDUM 2

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

SOUTH CAROLINA SSOE, INC. No. C 00746 CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

Fourth Floor Power Plan

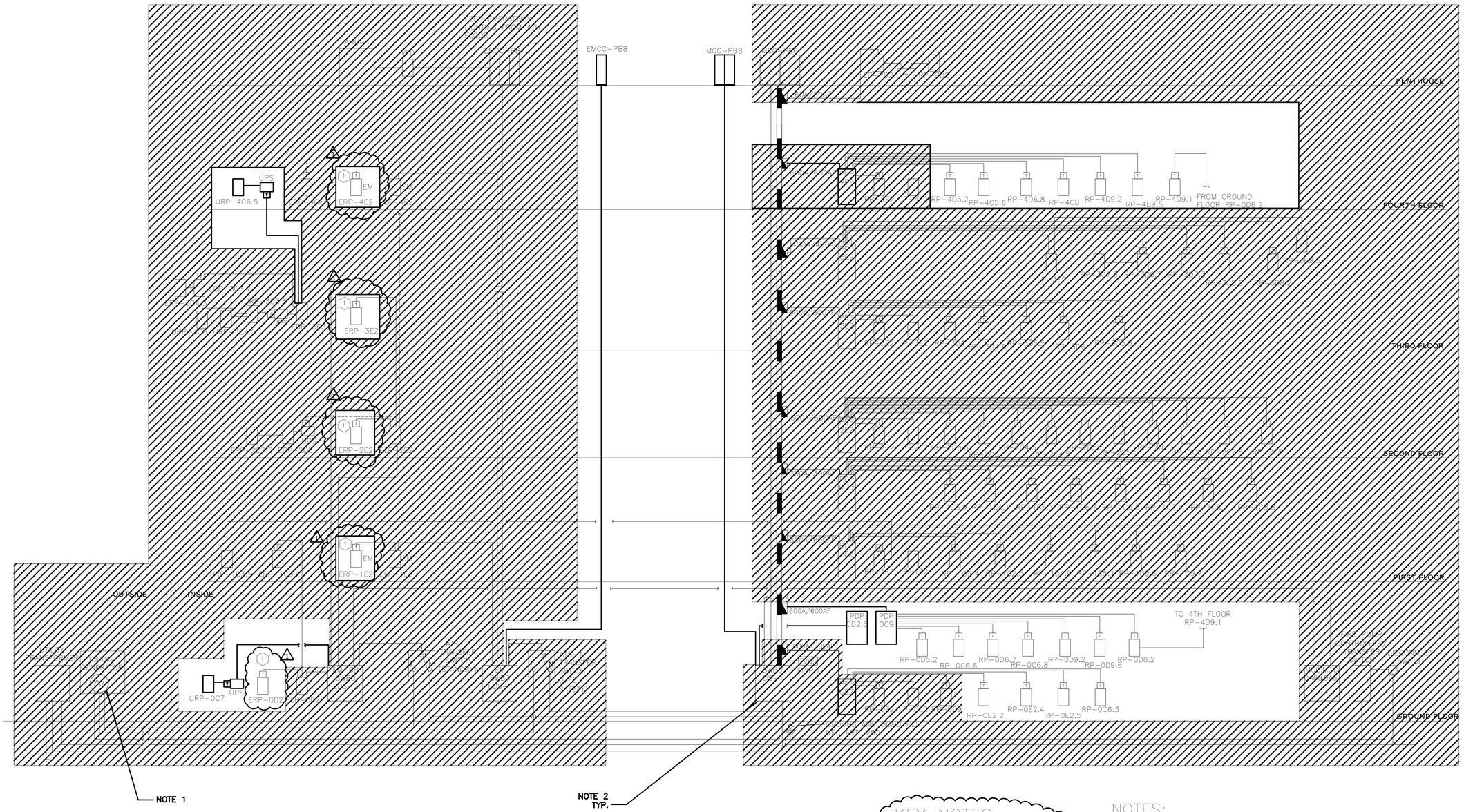
P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

EP1.41

WTS NO.: 11700

JUNE 17, 2013

BIDDING DOCUMENTS



1 EP5.61 POWER RISER DIAGRAM

SCALE: NTS

KEY NOTES:

1. PANELS ERP-0D2, ERP-1E2, ERP-2E2, ERP-3E2, ERP-4E2 ARE EXISTING. THE INSTALLED MAIN CIRCUIT BREAKERS (150A) ARE OVERSIZED FOR ASSOCIATED TRANSFORMER SIZE (15KVA). REPLACE EXISTING 150A-3POLE MAIN BREAKERS WITH NEW 50A-3POLE MAIN BREAKER OF SAME MANUFACTURER AND TYPE. EXISTING WIRE FROM TRANSFORMER SECONDARY TO MAIN BREAKER MAY BE TOO LARGE FOR NEW BREAKER LUGS. DISCONNECT AND REMOVE EXISTING WIRE FROM UPSTREAM 15KVA TRANSFORMER SECONDARY TO MAIN BREAKER. PROVIDE NEW 4#6 & #8GND. WIRE, AS REQUIRED.

NOTES:

1. NEW 1000KW GENERATOR TO REPLACE EXISTING 800KW GENERATOR AT SAME LOCATION. REFER TO SHEET EP1.01 FOR LOCATION.
2. THE FOLLOWING EXISTING EQUIPMENT IS LOCATED IN GROUND FLOOR ELECTRICAL ROOM 033. REFER TO SHEET EP1.01 FOR EXACT LOCATIONS
   - 2.1. SWITCHBOARD DS-1
   - 2.2. EMERGENCY SWITCHBOARDS EDS-1 & EDS-2
   - 2.3. TRANSFER SWITCHES ATS-1 & ATS-2
   - 2.4. PDP-0E2
   - 2.5. ELP-0D2
   - 2.6. ERP-0D2
3. REFER TO SHEETS EP5-64, EP5-65, EP5-66, AND EP5-67 FOR ONE LINE DIAGRAMS.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

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REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

SOUTH CAROLINA
SSOE, INC.
No. C 00746
CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

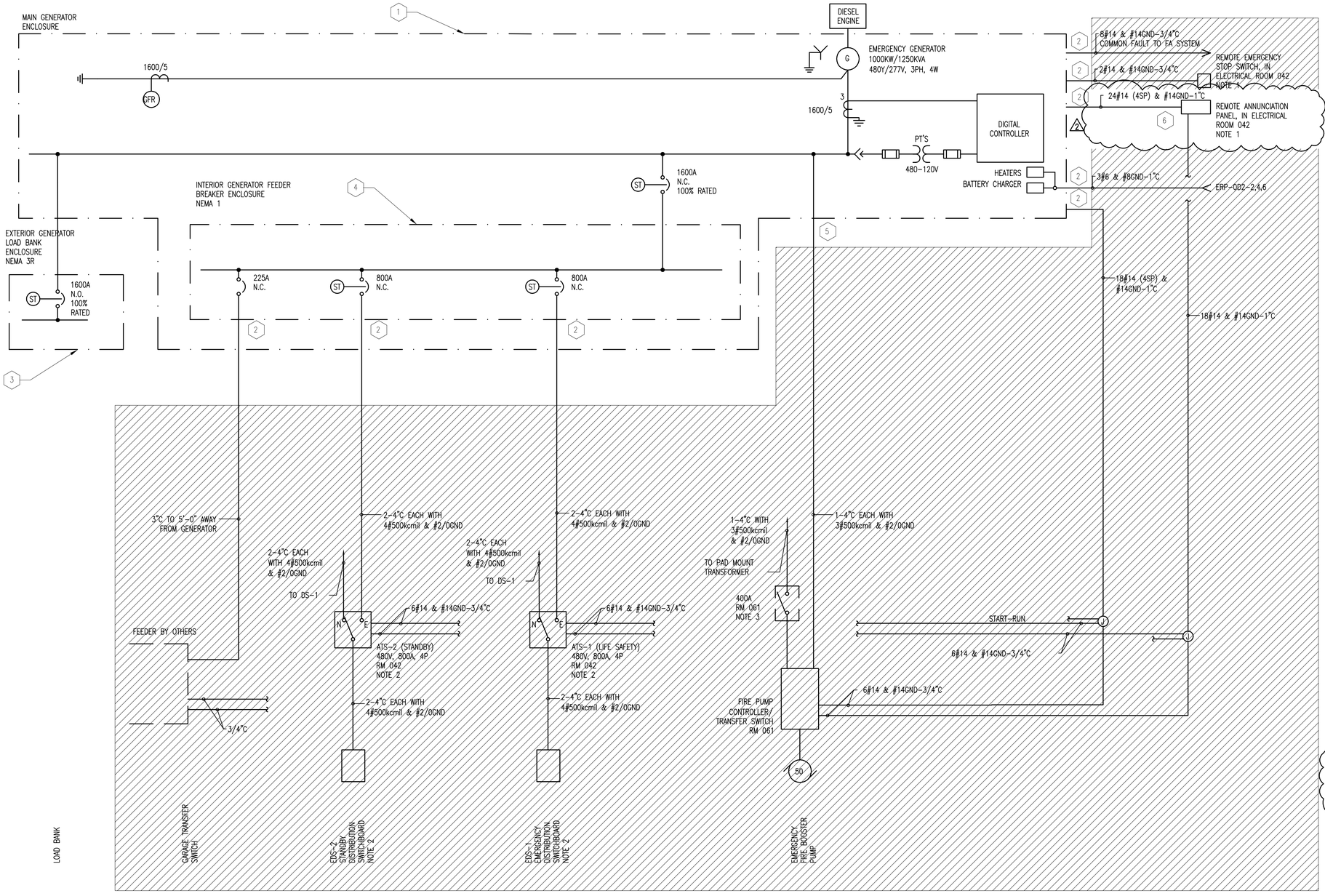
Power Riser Diagram

P.O. BOX 8444, COLUMBIA, SC 29202 1316 WASHINGTON STREET, COLUMBIA, SC 29201

EP5.61

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS



BUILDING EMERGENCY
POWER SYSTEM DISTRIBUTION

SCALE: NTS

NOTES:

1. ANCILLARY EQUIPMENT SUPPLIED WITH THE GEN-SET, INSTALLED AND/OR CONNECTED BY EC.
2. ATS-1 & ATS-3 FOR EMERGENCY SYSTEM TRANSFER IN LESS THAN 10 SECONDS AFTER UTILITY POWER LOSS. ATS-2 & ATS-4 FOR STAND-BY LOADS TRANSFER IN LESS THAN 60 SECONDS AFTER UTILITY POWER LOSS.
3. PROVIDE DISCONNECT IN MECH. ROOM 061 WITH PADLOCK IN "ON" POSITION ON NORMAL SUPPLY SOURCE AHEAD OF FIRE PUMP CONTROLLER.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES

KEY NOTES:

1. PROVIDE NEW 1600KW GENERATOR TO REPLACE EXISTING CATERPILLAR 800KW GENERATOR. THE EC WILL DISCONNECT THE EXISTING GENERATOR, USC WILL PICK UP AND TAKE (TO BE KEPT BY USC) THE EXISTING GENERATOR. EC WILL THEN INSTALL NEW GENERATOR. THE SPECIFIC DATE AND TIME FOR INSTALLING NEW GENERATOR SHALL BE CLOSELY COORDINATED WITH THE EXISTING OPERATIONS OF HORIZON. THIS COORDINATION OF A SPECIFIC SHORT DURATION OF DISCONTINUATION OF EMERGENCY POWER SERVICE IS CRITICAL. USC IS CAPABLE OF PICKING AND TAKING THE EXISTING GENERATOR AT ANY POINT DURING THE PROJECT. EC SHALL ALSO CLOSELY COORDINATE WITH NEW GENERATOR MANUFACTURER'S REP.
2. DISCONNECT CABLES FROM EXISTING GENERATOR. REFEED AND EXTEND NEW CABLING AS REQUIRED TO NEW GENERATOR.
3. SUPPLY ONE (1) 1600AT, 100% RATED, THREE POLE CIRCUIT BREAKER INSTALLED IN EXTERNALLY MOUNTED NEMA 3R PORTABLE LOAD BANK CONNECTION BOX. INCLUDE 24VDC SHUNT TRIP, AUXILIARY CONTACTS, ISOLATED NEUTRAL, GROUND BUS AND LI FUNCTIONS. LOAD BANK CONNECTION BOX SHALL BE MOUNTED ON WEST SIDE OF MAIN GENERATOR ENCLOSURE. CABLING FROM MAIN GENERATOR ENCLOSURE TO GENERATOR LOAD BANK ENCLOSURE SHALL BE BY GENERATOR PROVIDER.
4. PROVIDE NEMA 1 EXTENSION BOX MOUNTED INTERNALLY TO MAIN GENERATOR ENCLOSURE ENCLOSURE SHALL HOUSE THREE POLE FEEDER BREAKERS AS INDICATED. INCLUDE 24VDC SHUNT TRIP, AUXILIARY CONTACTS, LUGS, ISOLATED NEUTRAL, GROUND BUS, AND LSI FUNCTIONS. ENCLOSURE SHALL BE MOUNTED ON WEST SIDE OF GENERATOR. CABLING FROM MAIN GENERATOR 1600A BREAKER TO GENERATOR FEEDER BREAKER ENCLOSURE SHALL BE BY GENERATOR PROVIDER.
5. CONFIRM EXISTING FIRE PUMP IS DIRECTLY FED FROM EXISTING GENERATOR BUS. DISCONNECT CABLES FROM EXISTING GENERATOR. RE-FEED AND EXTEND CABLING AS REQUIRED TO PROVIDE DIRECT CONNECTION TO NEW GENERATOR BUS.
6. EXISTING REMOTE ANNUNCIATOR PANEL IS BY CATERPILLAR. IF GENERATOR MANUFACTURER PROVIDED IS OTHER THAN CATERPILLAR, E.C. SHALL PROVIDE NEW REMOTE ANNUNCIATOR PANEL AND WIRING TO BE COMPATIBLE WITH NEW GENERATOR.

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STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/17/13	ADDENDUM 1
2	07/25/13	ADDENDUM 2

SOUTH CAROLINA
SSOE, INC.
No. C 00746
CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

Generator System One Line Diagram

P.O. BOX 8444, COLUMBIA, SC 29202 1316 WASHINGTON STREET, COLUMBIA, SC 29201

EP5.64

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

KEYED NOTES:

1. EXISTING 19" X 84" EQUIPMENT RACK BOLTED TO FLOOR. SEE DETAIL ON ET3.01.
2. FUTURE 19" X 84" EQUIPMENT RACK.
3. EXISTING 12" LADDER TRAY MOUNTED AT 8'-0".
4. 12" X 6" ROXTEC FIRESTOP FRAME FILLED WITH CAT 5 SIZED FIRE BLOCKS.
5. 110 BLOCKS FOR POTS VOICE TERMINATIONS.
6. EXISTING 3/4" PLYWOOD BACKBOARD PAINTED WITH (2) COATS OF FIRE RETARDANT PAINT. MOUNTED AT 24" A.F.F. EXTEND TO CEILING HEIGHT.
7. OWNER'S EQUIPMENT.
8. UNDERGROUND CONDUIT COORDINATE WITH SITE PACKAGE.
9. 12" CENTER SUPPORT WIRE BASKET. MOUNTED A MINIMUM OF 1'-0" ABOVE CEILING, COORDINATE CABLE TRAY MOUNTING HEIGHTS AND ROUTE WITH HVAC AND OWNERS REPRESENTATIVE.
10. EXISTING EXPLOSION PROOF PHONE IS TO REMAIN

GENERAL NOTES:

A. OWNER TO PROVIDE AND PULL CAT 6 CABLE, BUILD OUT THE DATA CLOSET, AND PUNCH DOWN. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT, CABLE TRAY, WALL PENETRATIONS, SLEEVES, SUPPORTS, DATA OUTLETS, AND OTHER REQUIRED DATA CABLE SUPPORT INFRASTRUCTURE.

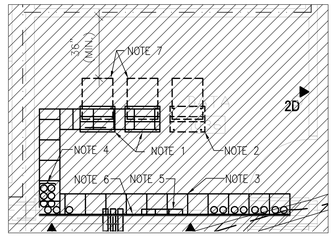
B. TERMINATE ALL CABLING ON JACKS AND ROUTE VIA CABLE TRAY TO FLOOR DATA ROOM.

C. SUPPORT ALL DATA CABLING WITH J-HOOKS EVERY 5 FEET AS THEY LEAVE THE CABLE TRAY AND ARE ROUTED TO THEIR FINAL DESTINATION.

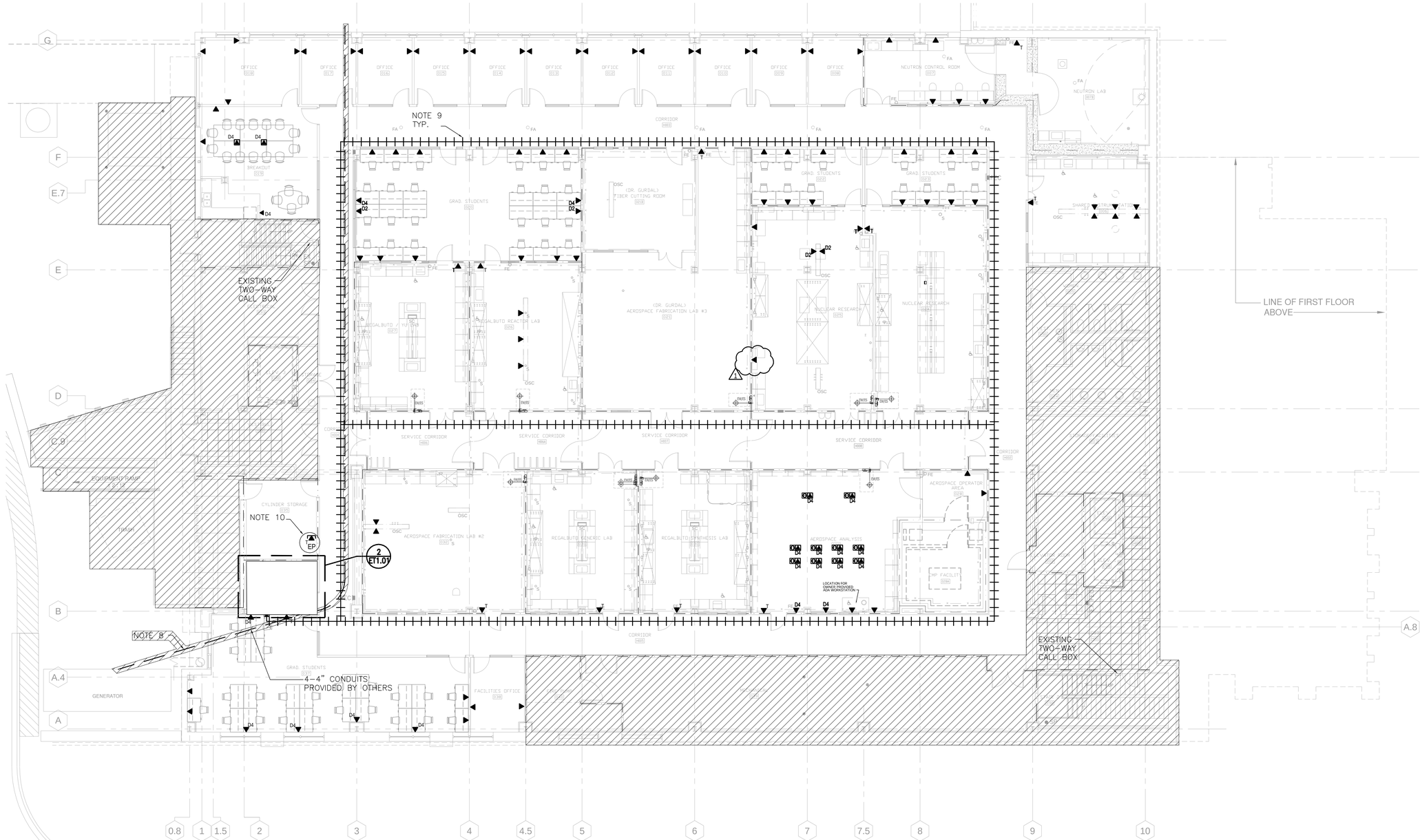
D. ALL FIRE-PROOFING SHALL BE BY GENERAL CONTRACTOR. ELECTRICAL WORK THAT CROSSES FIRE RATED WALLS SHALL BE RESTORED USING UL MATERIALS TO RESTORE FIRE WALL INTEGRITY. REFER TO DRAWING A2.01 FOR WALL FIRE RATINGS (PARTITION TYPES). G.C. SHALL PROVIDE SHOP DRAWINGS OF UL LISTED FIRE STOPPING SYSTEMS FOR APPROVAL BY DESIGNER/ENGINEER OF RECORD.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES



2 / ET1.01 ENLARGED MDF FLOOR PLAN
SCALE: 3/16" = 1'-0"



1 / ET1.01 GROUND FLOOR VOICE/DATA PLAN
SCALE: 1/8" = 1'-0"

JOB N

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University of South Carolina

STATE PROJECT NO.: H27-6081-AC

HORIZON I GROUND & FOURTH FLOORS UPFIT

University of South Carolina
541 Main Street
Columbia, South Carolina

REV.	DATE	DESCRIPTION
1	07/25/13	ADDENDUM 2

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

SOUTH CAROLINA
SSOE, INC.
No. C 00746
CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

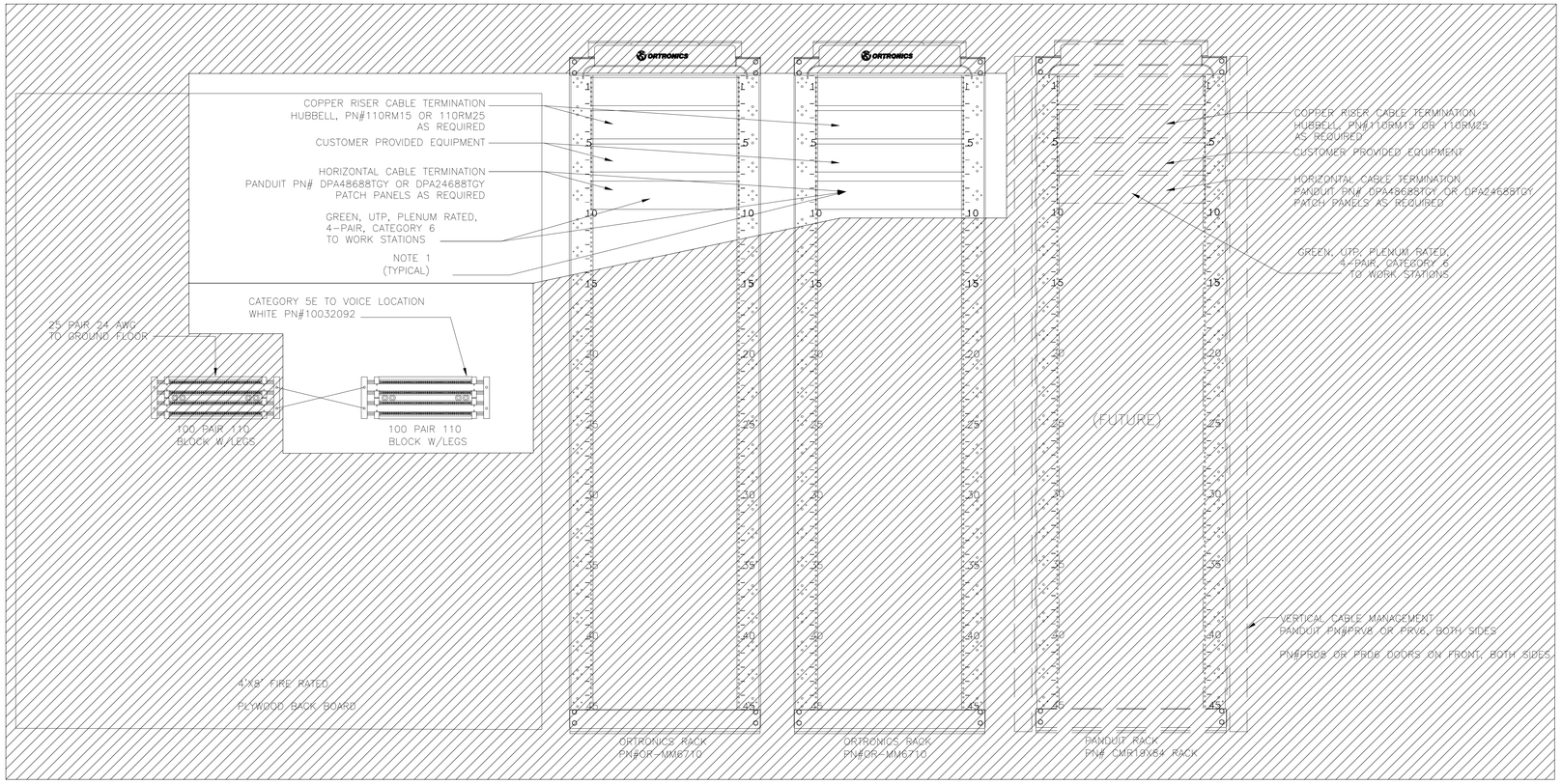
Ground Floor Voice/Data Plan

P.O. BOX 8444. COLUMBIA, SC 29202 1316 WASHINGTON STREET. COLUMBIA, SC 29201

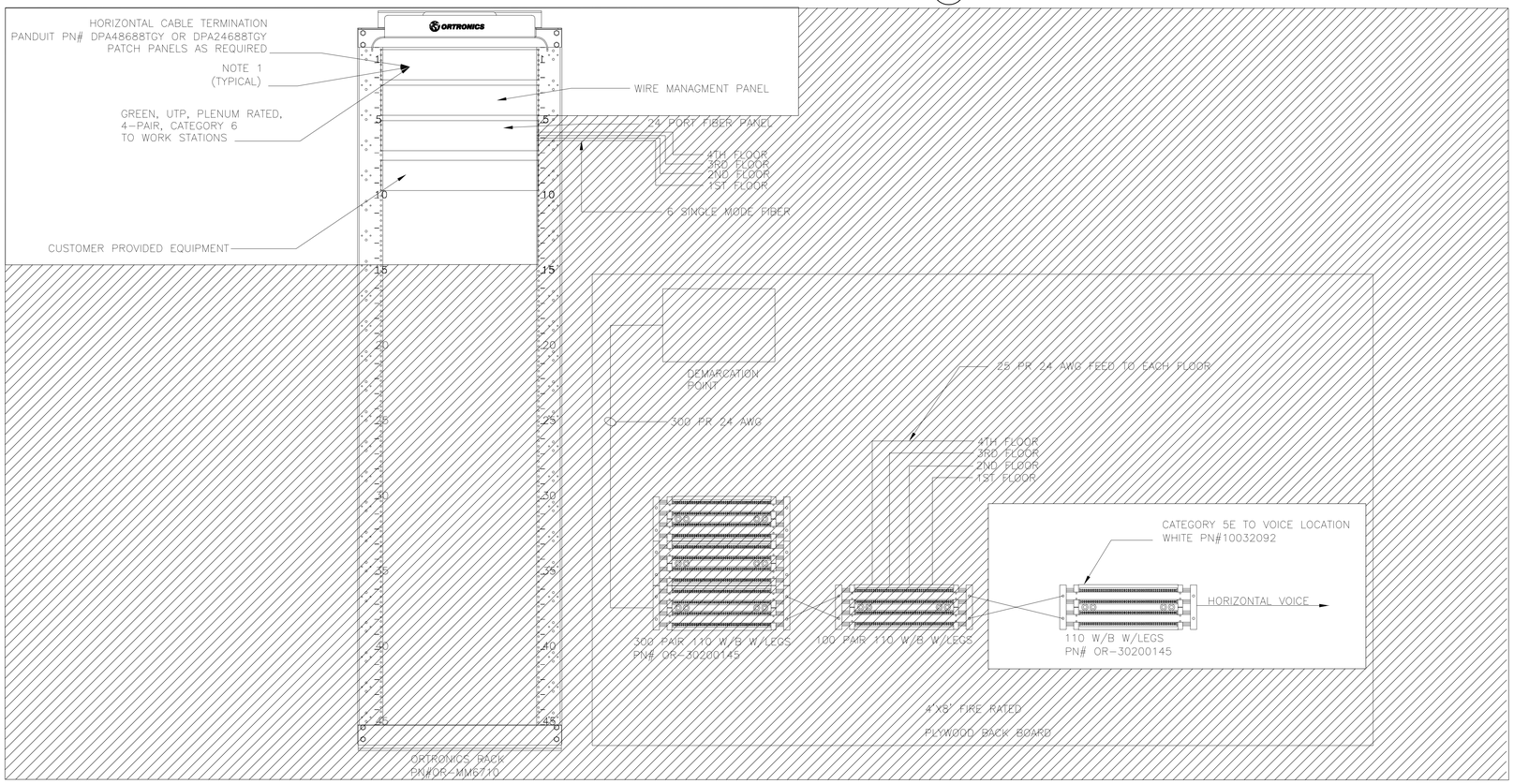
ET1.01

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS



4TH FLOOR TELECOMMUNICATIONS ROOM (1)
NTS



MAIN CLOSET GROUND FLOOR (2)
NTS

VOICE/DATA GENERAL NOTES:

A. OWNER TO PROVIDE AND PULL CAT 6 CABLE, BUILD OUT THE DATA CLOSET, AND PUNCH DOWN. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT, CABLE TRAY, WALL PENETRATIONS, SLEEVES, SUPPORTS, DATA OUTLETS, AND OTHER REQUIRED DATA CABLE SUPPORT INFRASTRUCTURE.

B. VOICE AND DATA CABLES ARE TO BE UL/NEC LISTED TYPE AND INSTALLED AS PER NEC #725, 770, 800 AND EIA/TIA 568A AS APPLICABLE, UNLESS OTHERWISE STATED IN SPECIFICATIONS.

C. ALL DATA AND VOICE CABLES ARE TO BE CATEGORY 6.

D. CABLES SHALL BE PLACED WITH SUFFICIENT BENDING RADIUS SO AS NOT TO KINK SHEAR OR DAMAGE JACKETS.

E. ALL HORIZONTAL CABLE SHALL BE PLENUM RATED IN PLENUM AREAS.

F. UNATTACHED WIRES, CABLES OR BUNDLES ARE NOT PERMITTED.

G. (4) GENERAL CONTRACTOR IS RESPONSIBLE FOR SLEEVING AND FIRE SEALING OF VOICE AND DATA UTILIZED OPENINGS IN ANY AND ALL FIRE RATED WALLS, FLOOR AND CEILINGS. INCLUDING TELECOMMUNICATIONS CLOSETS.

H. ALL VOICE AND DATA WORK SHALL BE CLOSELY COORDINATED WITH "OWNER".

I. ALL CONDUITS, RECESSED WALL BOXES AND PULL WIRES ARE TO BE SUPPLIED BY ELECTRICAL CONTRACTOR.

J. ALL CABLES ARE TO BE HELD TIGHT TO BUILDING STEEL EVERY 48" TO 60" USING VELCRO TIE WRAPS. USE PLENUM TIE WRAPS IN PLENUM AREAS. WHERE CABLE LEAVES THE CABLE TRAY, THEY MUST BE PROPERLY ATTACHED USING J-HOOKS.

K. OWNER MUST TAKE CARE TO FASTEN CABLES IN A MANNER CONSISTANT WITH THE GUIDELINES ESTABLISHED BY THE ANSI/EIA/TIA 568A AND 569 STANDARDS.

L. OWNER SHALL TERMINATE AND LABEL EACH NEW VOICE AND DATA CABLE WITH THE DATE OF INSTALLATION/CERTIFICATION AND ITS RESPECTIVE NUMBERING SCHEME. THE LABEL MUST BE MACHINE MADE, NOT HANDWRITTEN AND PLACED AT BOTH ENDS OF THE CABLE. CABLES TO BE TERMINATED IN NUMERICAL ROOM NUMBER ORDER.

M. OWNER SHALL KEEP ALL WIRE TAILS BETWEEN THE WIRED JUNCTION BOXES AND THE MODULAR FURNITURE AS SHORT AS POSSIBLE.

N. OWNER SHALL BE RESPONSIBLE FOR CROSS CONNECTING THE NEW HORIZONTAL VOICE CABLE TO THE COPPER VOICE RISER. THE VOICE/DATA CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE ALL VERTICAL RISER CABLE FROM THE TR 110 BLOCK TO THE MAIN MC LOCATION. AS WELL AS A 300 PAIR FEED FROM THE PBX LOCATION TO THE PHONE COMPANY DEMARC. THE VOICE/DATA CABLING CONTRACTOR SHALL FIELD COORDINATE WITH THE "OWNER" TO DETERMINE THE APPROPRIATE RISER PAIRS FOR CROSS-CONNECTION.

O. NEW DATA PATCH PANELS SHALL BE 48 PORT, CATEGORY 6 MODULAR PATCH PANELS.

P. OWNER SHALL PROVIDE SUFFICIENT QUANTITY OF CAT 6 PATCH PANELS AND TWO POSITION ORGANIZER PANELS TO PROVIDE FOR ALL DATA JACKS AND FOR 20% EXPANSION ON EACH RACK.

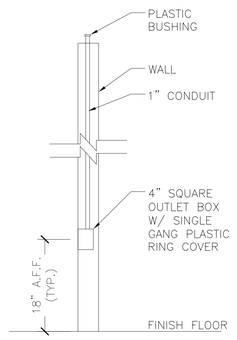
Q. OWNER SHALL PROVIDE A VERTICAL POWER DISTRUBUTION UNIT FOR EACH RACK.

R. BETWEEN CLOSETS (TELECOMMUNICATIONS ROOMS ON EACH FLOOR) THERE WILL BE A SIX STRAND FIBER, AND A 25 PAIR COPPER CABLE. THE DATA RISER SHALL SHOW THIS. THE SINGLE MODE 6 FIBER CABLE TO BE TERMINATED USING LC CONNECTORS. FIBER SHALL BE INSTALLED IN 1" INNERDUCT.

S. USE 568-B PIN OUT CONFIGURATION FOR TERMINATING ALL RJ45 JACKS AND PATCH PANELS.

NOTES:

1. PART NUMBERS INDICATED ARE BASED ON USC COMMUNICATIONS INFRASTRUCTURE GUIDELINES FOR NEW RACKS AND EQUIPMENT. PART NUMBERS FOR NEW EQUIPMENT IN EXISTING RACKS SHALL BE COORDINATED WITH OWNER AND EXISTING EQUIPMENT ON SITE.



TYPICAL WALL MOUNT VOICE/DATA OUTLET (3)
NTS

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1	07/17/13	ADDENDUM 1
2	07/25/13	ADDENDUM 2

SOUTH CAROLINA
SSOE, INC.
No. C 00746
CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

Electrical Voice/Data Details & General Notes

P.O. BOX 8444, COLUMBIA, SC 29202 1316 WASHINGTON STREET, COLUMBIA, SC 29201

ET3.01

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

ADDENDUM NO. 3

Date: July 29, 2013

RE: Watson Tate Savory Architects, Inc.
USC Horizon I Ground and Fourth Floors Upfit

To: Bidders: This addendum forms a part of the contract documents and modifies the original Bidding Documents dated June 17, 2013. Acknowledge receipt of this addendum in the space provided on the bid form.

From: SSOE Group
2520 Meridian Parkway, Suite 450
Durham, NC 27707
Phone: (919) 361-9606
Fax: (919) 484-8627

CLARIFICATIONS

Electrical

Drawing EP1.01

1. Revise note 7. Revise drawing to indicate "NAC" instead of "FACP". Revise to indicate existing NAC panel location and corrected new location.
2. Replace this drawing with drawing EP1.01 in this addendum.

Drawing EL1.01

1. Add note 15 and note 15 callout at lighting control panel.
2. Replace this drawing with drawing EL1.01 in this addendum.

Drawing EA1.01

3. Revise note 7. Revise drawing to indicate "NAC" instead of "FACP". Revise to indicate existing NAC panel location and corrected new location.
4. Replace this drawing with drawing EA1.01 in this addendum.

Addendum Clarifications:

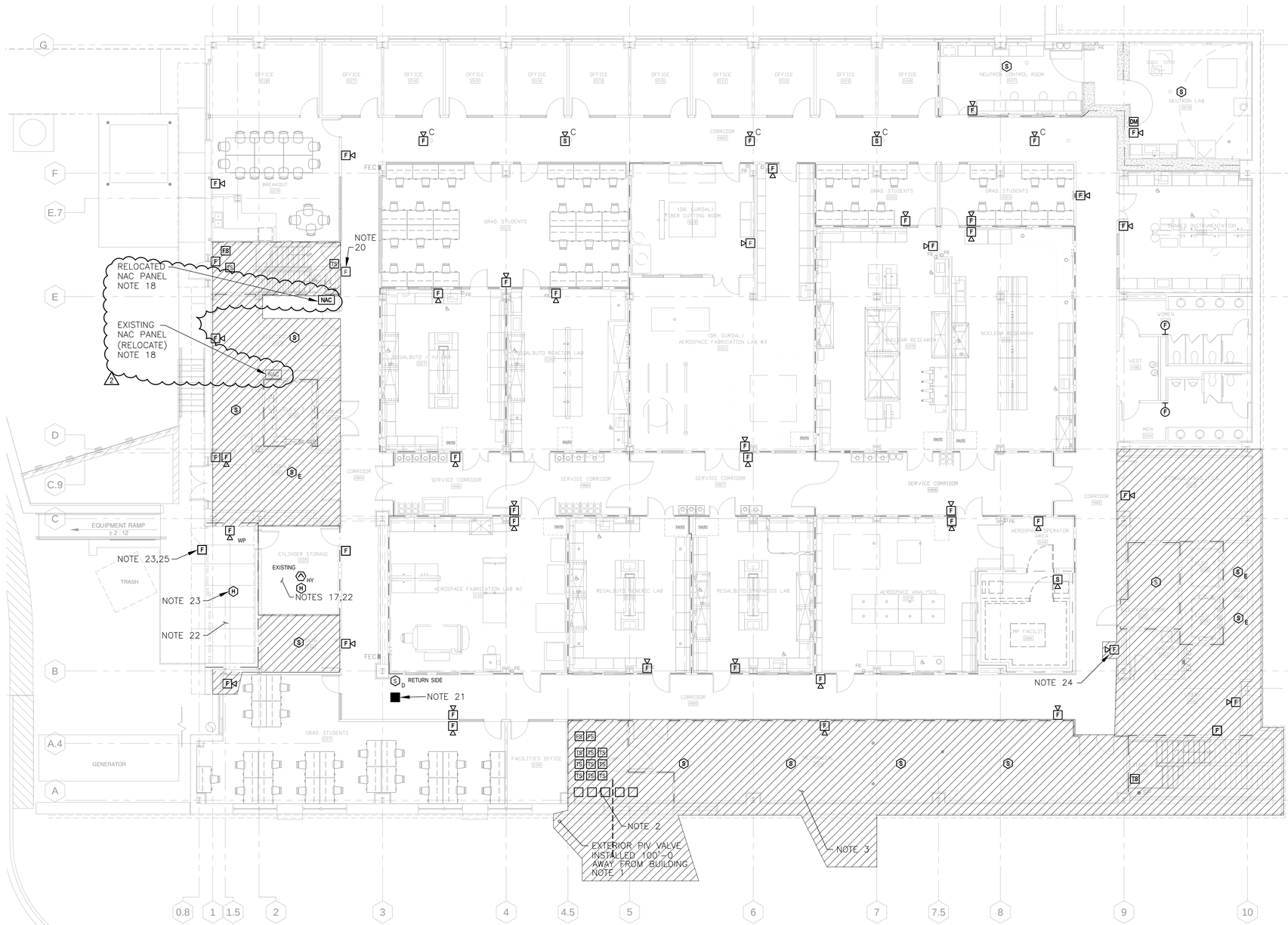
1. On drawing EA1.01 , note #18 states that the existing fire alarm panel is to be relocated. The symbol (FACP), for this indicates that it is a fire alarm control panel. TriTek completed the original fire alarm installation for this building and our records indicate that the fire alarm control panel is located on the first floor directly above this electrical room. There is a NAC power panel located in the ground floor electrical room that has note

ADDENDUM NO. 3

#18. Can you clarify for me as to which panel needs to be moved, either the NAC panel located on the ground floor or in fact the FACP located on the 1st floor?

Response: Panel to be relocated is NAC panel Ground Floor Elec Room. Refer to drawings EA1.01, EL1.01, and EP1.01 in this addendum 3 for clarification on NAC panel and coordination with new lighting control panel.

END OF ADDENDUM



1 EA1.01 GROUND FLOOR AUXILIARY PLAN

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

JOB N

NOTES:

1. FIRE ALARM SYSTEM PIV DEVICE:
   A. PROVIDE UNDERGROUND RACEWAY AND WIRING (WIRE SHALL BE RATED FOR UNDERGROUND USE, FOR FIRE PROTECTION VALVE PIV AS SHOWN.)
   B. PROVIDE MINIMUM 1"C (RGS) UNDERGROUND FROM PIV TO INSIDE BUILDING.
   C. VALVE END – CONTRACTOR SHALL STUB-UP CONDUIT ABOVE GRADE, PROVIDE PULLBOX (WP) AND CONDUIT CONNECTION TO PIV.
   D. INSTALL 2#14 FROM PIV TO FIRE ALARM PANEL. TERMINATE WIRE AT PIV.
2. PROVIDE NINE TAMPER AND TWO FLOW SWITCH MONITORING POINTS ON FIRE ALARM SYSTEM.
3. PROVIDE FOUR INPUTS FOR FIRE PUMP MONITORING ON FIRE ALARM SYSTEM.
4. INSTALL A MACURCO HP-12 HYDROGEN FLAME DETECTOR IN CYLINDER MANAGEMENT ROOM 048 AND TIE INTO FIRE ALARM PANEL.
5. EACH FIRE ALARM INITIATING DEVICE SHALL BE A SINGLE ADDRESSABLE POINT. SEE PLANS FOR LOCATIONS AND QUANTITY.
6. DUCT SMOKE DETECTORS SHALL BE WIRED TO SHUT OFF POWER TO LOCAL SUPPLY AND EXHAUST IR HANDLING EQUIPMENT. MOUNT SO THAT THE DEVICE IS ACCESSABLE. VERIFY PLACEMENT WITH MECHANICAL TRADES AND OWNER. BOTH ENDS OF THE DUCT DETECTOR SHALL BE SECURED AND THE SUPPLY END CAPPED. INSTALL REMOTE KEYED TEST SWITCH. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. INCOMING 120VAC POWER SHALL BE EQUIPPED WITH ADDITIONAL SURGE SUPPRESSION SEPARATE FROM THE FIRE ALARM PANEL.
8. STROBES–WHERE MORE THAN ONE STROBE IS IN THE SAME LINE OF SIGHT, OR IN THE SAME ROOM, THE STROBE SHALL FLASH IN SYNCHRONIZATION. THE STROBE SHALL BE PLACED 80" AFF FROM THE BOTTOM OF THE LENS. STROBES SHALL HAVE A MINIMUM OUTPUT OF 75 CANDELA. DESIGN CANDELA OUTPUT BASED ON ROOM REQUIREMENTS. CANDELA OUTPUT WILL VARY WITH LOCATION. LARGE AREAS WILL REQUIRE 110 CANDELA MINIMUM.
9. HORN STROBES SHALL BE MOUNTED AT STROBE HEIGHT.
10. ELEVATOR RECALL IS REQUIRED AND ALL EQUIPMENT AND INTERCONNECTIONS SHALL BE PROVIDED BY THE CONTRACTOR. THE SYSTEM MUST COMPLY WITH ANSI/ASME. THE ELEVATOR RECALL SYSTEM SHALL BE TIED INTO THE FIRE ALARM SYSTEM ON A PER FLOOR/PER ELEVATOR SHAFT BASIS FOR FIRE ALARM NOTIFICATION. A DUAL SHUNT TRIP BREAKER SHALL BE PROVIDED. COORDINATE WITH THE ELEVATOR PROVIDER FOR RECALL OPERATION AND ILLUMINATING REQUIRED LIGHTS. A SMOKE AND HEAT DETECTOR SHALL BE MOUNTED AT THE TOP OF EACH SHAFT AND SHALL PERFORM DUAL FLOOR RECALL OPERATION AS REQUIRED. COORDINATE WITH VENDOR TO INSURE THAT OPERATION OF SHUNT TRIP BREAKER FORCES ELEVATOR TO PRIMARY OR SECONDARY EGRESS FLOOR.
11. LOCATE SMOKE DETECTORS AND HEAT DETECTORS SO AS TO BE ACCESSIBLE FOR TESTING AND MAINTENANCE. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
12. GENERATOR CONTROL PANEL MONITOR POINTS (TEN TOTAL) AND FIRE PUMP MONITOR POINTS (MINIMUM OF SIX) SHALL INCLUDE 'GENERATOR TROUBLE', 'GENERATOR SELECTOR SWITCH "OFF"', 'GENERATOR RUNNING',' GENERATOR ALARM',' PUMP RUNNING',' PUMP TROUBLE' AND 'PUMP IN MANUAL POSITION'.
13. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER TO INSURE THAT ALL FIRE DEVICES INCLUDING FLAME HOODS ARE MONITORED.
14. PROVIDE HARDWARE INTERFACE BETWEEN FIRE ALARM PANEL AND SECURITY BIS HEADEND TO PROVIDE FOR OFF-SITE MONITORING AND HARD-WIRED DOOR RELEASE IN THE EVENT OF A FIRE ALARM.
15. PROVIDE FOR 20% EXPANSION ON ALL ADDRESSABLE LOOPS AND AUDIBLE CIRCUITS.
16. ALL FIRE-PROOFING SHALL BE BY GENERAL CONTRACTOR. ELECTRICAL WORK THAT CROSSES FIRE RATED WALLS SHALL BE RESTORED USING UL MATERIALS TO RESTORE FIRE WALL INTEGRITY. REFER TO DRAWING A2.01 FOR WALL FIRE RATINGS (PARTITION TYPES). G.C. SHALL PROVIDE SHOP DRAWINGS OF UL LISTED FIRE STOPPING SYSTEMS FOR APPROVAL BY DESIGNER/ENGINEER OF RECORD.
17. EITHER TEST OR REINSTALL EXISTING MACURCO HP-12 HYDROGEN FLAME DETECTOR IN THE CYLINDER STORAGE ROOM, NUMBER 035. THIS DEVICES IS THE BE MONITORED BY THE BUILDING FIRE ALARM SYSTEM. IT NEEDS TO BE TESTED PER THE NFPA 72 REQUIREMENTS FOR THIS CONTRACT.
18. RELOCATE THE EXISTING GROUND FLOOR NAC PANEL TO THE WEST WALL OF THE ELECTRICAL ROOM (033) JUST WEST OF THE DOUBLE DOOR. COORDINATE EXACT LOCATION WITH NEW LIGHTING CONTROL PANEL, REFER TO SHEET EP1.01 FOR ADDITIONAL INFO. (1)
19. AUDIBLE NOTIFICATION SHALL MEET NFPA 72 REQUIREMENTS.
20. RELOCATE THE EXISITNG MANUAL PULL STATION TO THE NEW STAIR DOOR LOCATION ON THE EAST SIDE OF THE DOOR.
21. CONTRACTOR TO PROVIDE AND INSTALL RELAY FOR AHU FAN SHUTDOWN UPON AN ALARM ACTIVATION FROM THE ASSOCIATED DUCT SMOKE DETECTOR.
22. THIS AREA IS CLASSIFIED AS HAZARDOUS (H2) SO ALL CABLE, CONDUIT, AND DEVICES SHALL BE RATED FOR CLASSIFICATION CLASS 1 DIVISION 2 AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 500.
23. USE A NON-ADDRESSABLE DEVICE WITH A MONITOR MODULE CONNECTED TO IT AND INSTALL THE MONITOR MODULE IN A NON-HAZARDOUS AREA.
24. CONTRACTOR TO REMOVE DEVICE DURING CONSTRUCTION FOR ADDITIONAL WORK TO THE WALL. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE REINSTALLATION OF THIS DEVICE.
25. PROVIDE DEVICE AND CONDUIT SUPPORTS AS REQUIRED FOR INSTALLATION ON CHAIN LINK FENCE.

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2	07/29/13	ADDENDUM 3

LEGEND

1 HOUR RATED WALL

2 HOUR RATED WALL

SOUTH CAROLINA SSOE, INC. No. C 00746 CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

P.O. BOX 8444. COLUMBIA, SC 29202 1516 WASHINGTON STREET. COLUMBIA, SC 29201

Ground Floor Auxiliary Plan

EA1.01

WTS NO.: 11700 | JUNE 17, 2013

BIDDING DOCUMENTS

NOTES:

1. REMOVE ALL TEMPORARY CHAIN HUNG FIXTURES IN SHELL SPACE. REUSE CONDUIT AND CIRCUITS AS NECESSARY FOR NEW FIXTURES.
2. ALL FIXTURES ON THIS SHEET ARE TYPE 'D' UNLESS NOTED OTHERWISE.
3. ALL TYPE A1 AND TYPE A2 FIXTURES SHALL BE MOUNTED AT 9'–6" UNLESS NOTED OTHERWISE.
4. TYPE G FIXTURES IN SERVICE CORRIDOR SHALL BE WALL MOUNTED AT 7'–6" AFF.
5. ALL NEW EXIT SIGNS AND FIXTURES WITH 'NL' (NIGHT LIGHT) DESIGNATION TO BE CONNECTED TO FIRST FLOOR PANEL ELP–1E2 AS FOLLOWS:
   5.1. SOUTH OF COLUMN 6 – ELP–1E2–17
   5.2. NORTH OF COLUMN 6 – ELP–1E2–19
6. ALL FIRE–PROOFING SHALL BE BY GENERAL CONTRACTOR. ELECTRICAL WORK THAT CROSSES FIRE RATED WALLS SHALL BE RESTORED USING UL MATERIALS TO RESTORE FIRE WALL INTEGRITY. REFER TO DRAWING A2.01 FOR WALL FIRE RATINGS (PARTITION TYPES). G.C. SHALL PROVIDE SHOP DRAWINGS OF UL LISTED FIRE STOPPING SYSTEMS FOR APPROVAL BY DESIGNER/ENGINEER OF RECORD.
7. RELOCATE EXIT SIGN AT THIS EXISTING DOOR LOCATION TO NEW EXIT DOOR AS SHOWN.
8. DISCONNECT EXISTING EXPLOSION PROOF FIXTURES AND SWITCH AND RETURN TO OWNER. REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE OR NEAREST DEVICE TO REMAIN.
9. NEW CONDUIT IN FACILITIES OFFICE 035 MAY BE SURFACE MOUNTED.
10. EXISTING LIGHTING AND SWITCH TO REMAIN IN NEW STORAGE FACILITIES ROOM 003.
11. LIGHTING/SWITCHING IN LIGHTNING STRIKE ROOM TO BE PROVIDED BY LIGHTNING STRIKE CAGE MANUFACTURER. E.C. SHALL PROVIDE 277V CIRCUIT TO JUNCTION BOX IN CEILING. E.C. SHALL WIRE CIRCUIT TO LIGHTING AND SWITCHING AS REQUIRED BY LIGHTNING STRIKE CAGE MANUFACTURER.
12. REFER TO LIGHTING CONTROLS SEQUENCE OF OPERATIONS FOR CONTROL OF FIXTURE OVER LASER CURTAIN AREA.
13. PROVIDE 120V ILLUMINATED "LASER IN USE" SIGN BY RLI OR APPROVED EQUAL. SIGN SHALL BE PROVIDED WITH RELAY FOR INTERLOCKING TO LASER AS REQUIRED.
14. FIXTURES ARE EXISTING. RE–ARRANGE AS INDICATED TO PROVIDE LIGHTING FOR FIRE PUMP ROOM.
15. COORDINATE EXACT LOCATION WITH RELOCATED FIRE ALARM NAC PANEL NEAR THIS LOCATION. REFER TO SHEET EP1.01 AND EA1.01 FOR ADDITIONAL INFO.

LIGHTING CONTROLS SEQUENCE OF OPERATIONS:

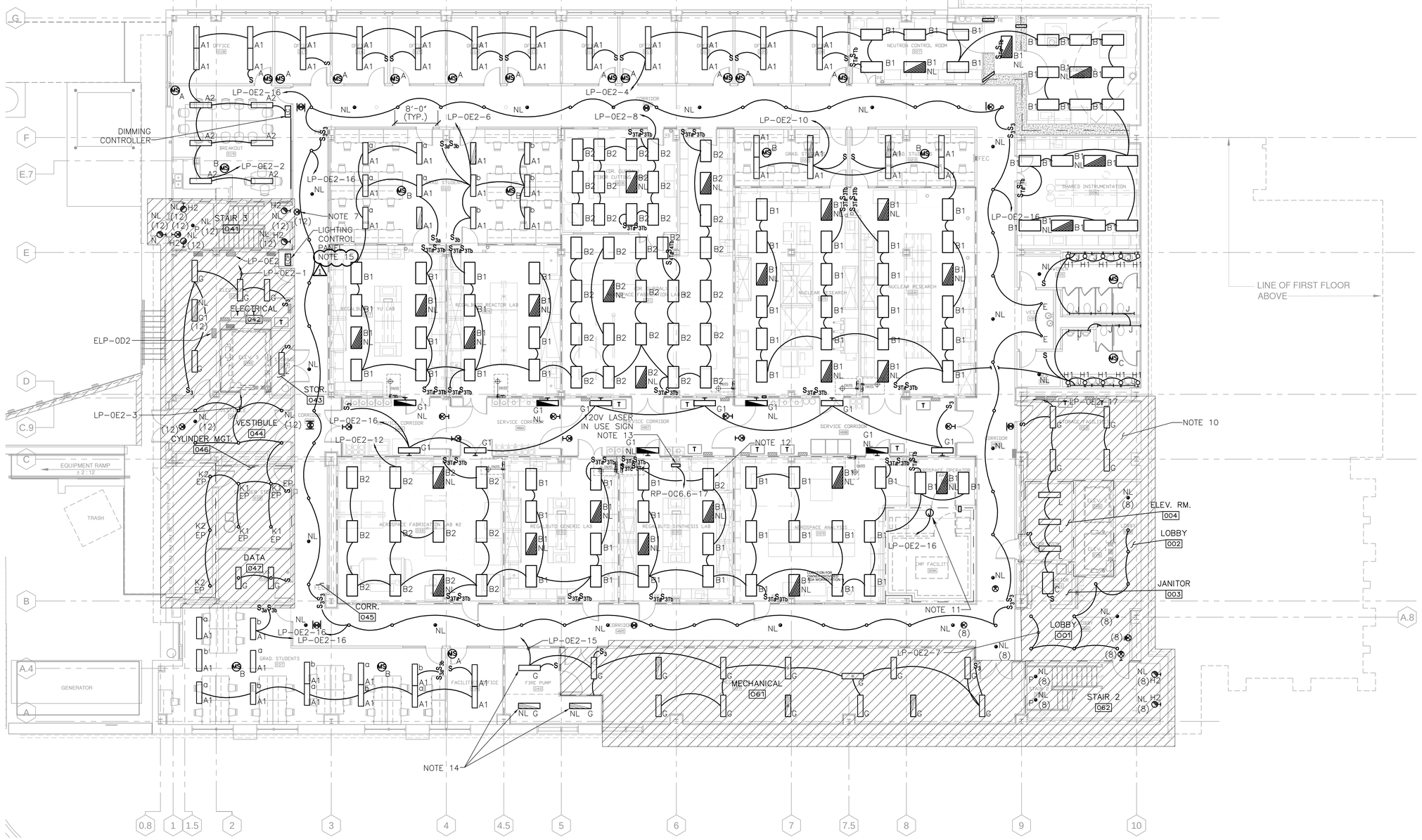
1. LAB LIGHTING CONTROLS–
   1.1. ALL TYPE 'B1' AND 'B2' LIGHT FIXTURES IN LABS SHALL BE CONTROLLED VIA LOW VOLTAGE WALL STATION(S) WITH AUTOMATIC TIME CLOCK OVERRIDE AS INDICATED. WALL STATIONS SHALL BE CONNECTED TO LIGHTING CONTROL PANEL.
   1.2. ALL TYPE 'B1' AND 'B2' LIGHT FIXTURES IN LABS SHALL BE PROVIDED WITH TWO (2) BALLASTS FOR BI–LEVEL SWITCHING.
   1.3. SWITCH WITH DESIGNATION 'a' SHALL BE USED TO SWITCH INBOARD LAMP(S)
      1.3.1. TYPE 'B1' FIXTURE – ONE (1) INBOARD LAMP.
      1.3.2. TYPE 'B2' FIXTURE – TWO (2) INBOARD LAMPS.
   1.4. SWITCH WITH DESIGNATION 'b' SHALL BE USED TO SWITCH OUTBOARD LAMP(S).
      1.4.1. TYPE 'B1' FIXTURE – TWO (2) OUTBOARD LAMPS.
      1.4.2. TYPE 'B2' FIXTURE – TWO (2) OUTBOARD LAMPS.
2. LAB 030 – LASER CURTAIN AREA LIGHTING
   2.1. SWITCH WITH DESIGNATION 'c' SHALL BE USED TO SWITCH TWO (2) INBOARD LAMPS OF THE TYPE 'B2' FIXTURE LOCATED OVER LASER CURTAIN AREA.
   2.2. SWITCH SWITCH WITH DESIGNATION 'd' SHALL BE USED TO SWITCH TWO (2) OUTBOARD LAMPS OF THE TYPE 'B2' FIXTURE LOCATED OVER LASER CURTAIN AREA.

MOTION SENSOR SCHEDULE

SWITCH ID	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
MS A	WATTSTOPPER OR APPROVED EQUAL	DT–200	DUAL TECHNOLOGY CEILING/WALL MOUNTED SENSOR WITH POWER PACK	WALL MOUNT IN CORNER OF ROOM AT 9'–6" UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL DUER DOORS AND GLASS PANELS. VERIFY ADEQUATE WALL SPACE FOR MOUNTING.
MS B	WATTSTOPPER OR APPROVED EQUAL	DT–300	DUAL TECHNOLOGY CEILING MOUNTED 360 DEGREE SENSOR WITH POWER PACK	
MS C	WATTSTOPPER OR APPROVED EQUAL	UT–300	ULTRASONIC CEILING MOUNTED 360 DEGREE SENSOR WITH POWER PACK	

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES



1 EL1.01 GROUND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

JOB N

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HORIZON I GROUND & FOURTH FLOORS UPFIT

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LEGEND

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SOUTH CAROLINA SSOE, INC. No. C 00746 CERTIFICATE OF AUTHORIZATION

WATSON TATE SAVORY

Ground Floor Lighting Plan

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

EL1.01

WTS NO.: 11700 | JUNE 17, 2013

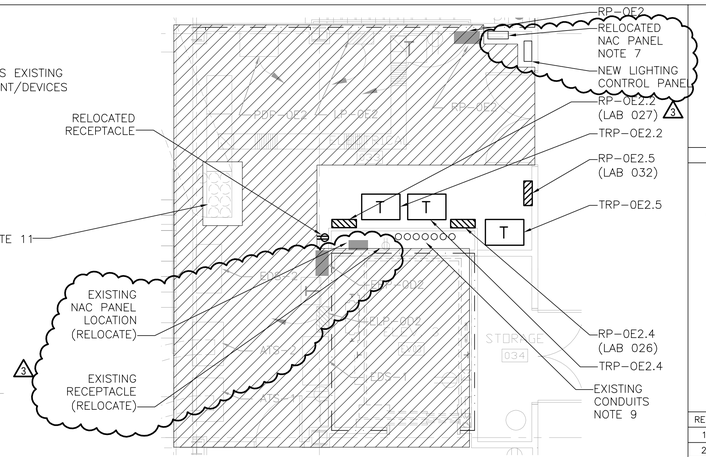
BIDDING DOCUMENTS

NOTES:

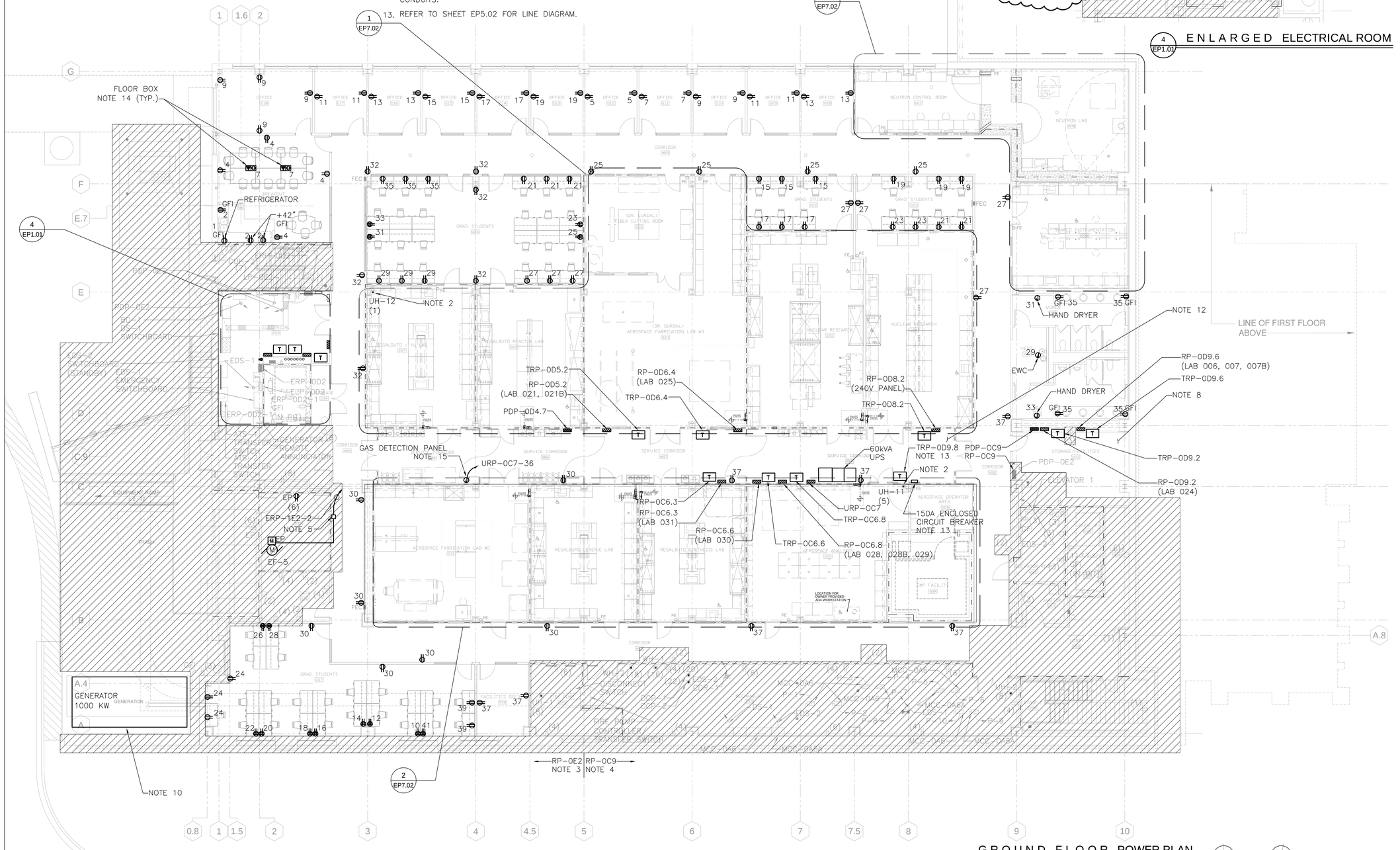
1. SEE DRAWING E6.00 FOR SYMBOL SCHEDULE AND GENERAL NOTES.
2. DISCONNECT UNIT HEATERS AND REMOVE ASSOCIATED CONDUIT/WIRE BACK TO PANELBOARD. LABEL ASSOCIATED CIRCUIT BREAKERS AS "SPARE".
3. ALL 120V RECEPTACLES AND DEVICES ON THIS SHEET THAT ARE LOCATED SOUTH OF COLUMN LINE 5 SHALL BE FED FROM RP–0E2 UNLESS NOTED OTHERWISE.
4. ALL 120V RECEPTACLES AND DEVICES ON THIS SHEET THAT ARE LOCATED NORTH OF COLUMN LINE 5 SHALL BE FED FROM RP–0C9 UNLESS NOTED OTHERWISE.
5. BREAK GLASS SWITCH MANUAL SHUTOFF SWITCH.
6. ALL FIRE–PROOFING SHALL BE BY GENERAL CONTRACTOR. ELECTRICAL WORK THAT CROSSES FIRE RATED WALLS SHALL BE RESTORED USING UL MATERIALS TO RESTORE FIRE WALL INTEGRITY. REFER TO DRAWING A2.01 FOR WALL FIRE RATINGS (PARTITION TYPES). G.C. SHALL PROVIDE SHOP DRAWINGS OF UL LISTED FIRE STOPPING SYSTEMS FOR APPROVAL BY DESIGNER/ENGINEER OF RECORD.
7. FIRE ALARM CONTRACTOR TO RELOCATE GROUND FLOOR NAC PANEL LOCATED IN GROUND FLOOR ELECTRICAL ROOM TO LOCATION INDICATED. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED. REFER TO SHEET EA1.01 FOR ADDITIONAL DETAILS.
8. DISCONNECT AND REMOVE ANY ELECTRICAL DEVICES AND EQUIPMENT ASSOCIATED WITH NITROGEN GENERATOR. REMOVE ASSOCIATED CONDUIT/WIRE BACK TO PANELBOARD. LABEL ASSOCIATED CIRCUIT BREAKERS AS "SPARE".
9. NEW WALL IS TO BE INSTALLED AROUND EXISTING CONDUITS. EXISTING FIRE ALARM CONTROL PANEL AND RECEPTACLE ARE TO BE RELOCATED AS INDICATED.
10. PROVIDE NEW 1000KW GENERATOR TO REPLACE EXISTING 800KW GENERATOR. THE EC WILL DISCONNECT THE EXISTING GENERATOR, USC WILL PICK UP AND TAKE (TO BE KEPT BY USC) THE EXISTING GENERATOR. EC WILL THEN INSTALL NEW GENERATOR. THE SPECIFIC DATE AND TIME FOR INSTALLING NEW GENERATOR SHALL BE CLOSELY COORDINATED WITH THE EXISTING OPERATIONS OF HORIZON. THIS COORDINATION OF A SPECIFIC SHORT DURATION OF DISCONTINUATION OF EMERGENCY POWER SERVICE IS CRITICAL. USC IS CAPABLE OF PICKING AND TAKING THE EXISTING GENERATOR AT ANY POINT DURING THE PROJECT. EC SHALL ALSO CLOSELY COORDINATE WITH NEW GENERATOR MANUFACTURER'S REP.
11. REPLACE EXISTING 3000A MAIN LUG ONLY SECTION WITH NEW 3000A MAIN BREAKER SECTION. REFER TO SHEET EP5.67 FOR ONE LINE DIAGRAM.
12. ALL VERTICAL CONDUIT UNISTRUT IN SERVICE CORRIDOR TO BE 1–5/8" TO ALLOW GAS DETECTION SYSTEM RACEWAY TO BE ROUTED BEHIND POWER CONDUITS.
13. REFER TO SHEET EP5.02 FOR LINE DIAGRAM.
14. ALL CUTTING AND PATCHING OF EXISTING FLOOR FOR INSTALL BELOW FLOOR SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
15. COORDINATE EXACT LOCATION WITH GAS DETECTION CONTRACTOR.

LEGEND:

INDICATES EXISTING EQUIPMENT/DEVICES



4 EP1.01 ENLARGED ELECTRICAL ROOM



GROUND FLOOR POWER PLAN

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

JOB N

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WATSON TATE SAVORY

Ground Floor Plan Power

P.O. BOX 8444, COLUMBIA, SC 29202 1516 WASHINGTON STREET, COLUMBIA, SC 29201

EP1.01

WTS NO.: 11700

JUNE 17, 2013

BIDDING DOCUMENTS