



ADDENDUM No. 1
for
INDIANA STATE FAIR COMMISSION
DISCOVERY HALL TENANT
IMPROVEMENTS
1202 East 38th Street
Indianapolis, Indiana 46205

Prepared
for
Indiana State Fair Commission
1202 East 38th Street
Indianapolis, Indiana 46205

July 8, 2011



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Indiana State Fair Commission
Discovery Hall Tenant Improvements

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ADDENDUM NO. 1

TO ALL BIDDERS OF RECORD AND TO WHOM IT MAY CONCERN:

This Addendum is being issued prior to the date for receiving bids.

This Addendum forms a part of the Contract Documents and modifies the original Drawings and Specifications as noted below and shall be incorporated into the Contract Drawings. All other provisions of the Drawings and Specifications shall remain unchanged.

This Addendum is issued in accordance with the provisions of the Notice to Bidders section of the Project Manual. All Bids shall be based upon work as modified by this Addendum.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may result in disqualification of the Bidder. This Addendum **DOES NOT** change the Bid Date.

INCLUDED IN ADDENDUM:

1. Clarifications
2. Changes to Specifications
3. Changes to Drawings
4. Pre-Bid Meeting Minutes, Dated June 30, 2011

CLARIFICATIONS:

1. Attendance at the Pre-Bid Meeting is **NOT** mandatory to bidding.
2. Reference electrical drawings for lighting fixture quantities. Clarification of lighting fixture layouts will be included in forthcoming ASI.
3. All P.A. Speakers installed in the previous phase of the project shall be removed as part of the Discovery Hall Tenant Improvements Bid Package. There are nine (9) speakers located on the First Floor and six (6) speakers located on the Second Floor.
4. Brickwork patching will be included in this contract. All exposed damaged areas shall be repaired to be restored to match existing masonry finish. Contractor shall verify in field.
5. The MBE/WBE requirements for this project are NON-STIPULATED.
6. All protrusions from exterior masonry walls shall be removed in preparation of new wall finish. This includes the cutting and removal of existing sink hangers, bolts, clips, etc.
7. Contractor will be responsible for appropriate floor leveling including removal of existing protrusions or extremities.
8. Existing conduit and wiring may be reused where within the limits of the NEC.

Indiana State Fair Commission
Discovery Hall Tenant Improvements

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CHANGES TO SPECIFICATIONS:

- Item No. 1** Specification Section 002113 "Instructions to Bidders"
1. 2.01.D Revise as follows: Submit required Supplement to Bid Forms at the time of bid submission.
 2. Change Paragraph 2.04.A to be read as follows: Indiana State Fair requires that the work of this contract be completed as quickly as possible. All work must be 100% complete by December 1, 2011. Project award date of July 21, 2011 and access to the facility shall not be earlier than August 22, 2011. Pre-construction activities such as, pre-construction meeting, start up documents, submittals, ordering of materials, etc. may occur between time of Notice to Bidders to the time of Mobilization and Access to Facility.
 3. Paragraph 3.03, Availability, is revised as follows: "Bid Documents may be obtained at Reprographix, Inc. located at 437 N Illinois Street, Indianapolis, IN, 46204.
 4. Paragraph 7.07.B: Remove paragraphs #2 and #3.
 5. Change Paragraph 7.07.C: Revise as follows: Submit the following Supplements with Bid Submission.
 6. Paragraph 7.08: Delete in its entirety.
- Item No. 2** Specification Section 004301 "Bid Form Supplements Cover Sheet"
1. Add to Paragraph 1.05: Attachment C (Minority & Women's Business Enterprises ITB Subcontractor Commitment Form) and Attachment D (Indiana Economic Impact Form) shall be submitted WITH bid.
- Item No. 3** Specification Section 102813 "Toilet & Bath Accessories": Delete in its entirety.
- Item No. 4** Specification Section 271116, Telephone/Data Wiring System, See Specification this addendum.
- Item No. 5** Specification Section 087100, Add Stanley Door Hardware as an approved equal for door closers.
- Item No. 6** Specification Section 102200 "Partitions": Add Section 102226 "Folding Panel Partitions" to the specification.
- Item No. 7** Specification Section 123553 "Casework" shall be an open spec for all approved equal manufacturers and/or fabricators.

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Discovery Hall Tenant Improvements**

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CHANGES TO DRAWINGS:

Item No. 8 Drawing C202 "Site Details"

1. Revise Drawing C202 as revised by Sketch C-1.
2. Concrete walks do not require any reinforcing.

Item No. 9 Drawing C301 "Grading Plan"

1. There are no Top of Curb, Edge of Pavement elevations given at the concrete walks. There are not any combined curb/walks, and the edge of pavement

Item No. 10 Drawing A002 "General Information"

1. All wall types with a "S" suffix designation will include sound insulation, as shown indicated in the drawings on Sheet A002. All wall types not labeled with "S" designation will NOT include sound insulation at that location.

Item No. 11 Drawing A101 "First Floor Plan"

1. Add Plan Note to the Architectural Key Notes: P.29 PATCH BRICK AS REQUIRED TO MATCH ADJACENT EXISTING MASONRY FINISH. PROVIDE ALUMINUM WALL CAP TO COVER (+/- 6" in width, V.I.F) AND SEAL EXPOSED EDGES (SIMILAR TO PREVIOUS CONSTRUCTION PHASE).
2. Revise Drawing A101: Add Plan Note P.29 to wing wall locations at Exhibit 112. See Sketch ADD.1-1.

Item No. 12 Drawing A102 "Second Floor Plan"

1. Revise Drawing A102 as indicated on Sketches ADD.1-2, ADD.1-3, ADD.1-4, ADD.1-5.
2. Room W203 indicates movable furniture provided by Owner. This is NOT casework at this location.
3. Detail 2/A102 shows a Steel Channel Column Repair. This is an EXISTING condition.
4. Patch, repair, and paint, as necessary, brick near Stair 4001 (located in Corridor 211).

Item No. 13 Drawing A201 "First Floor Reflected Ceiling Plan"

1. Conference Room B113 shall include a flush mounted projection screen, mounted to the 10'-6" bulkhead. A projector rough-in will also be included in this room.
2. Contractor shall center all ceiling grids within each office.
3. At the existing window locations, there is not an interior window stool. The drywall will return to the wall at this location, not to the window. Reference 2/A201 for clarification.

Indiana State Fair Commission

Discovery Hall Tenant Improvements

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Item No. 14 Drawing A202 "Second Floor Reflected Ceiling Plan"

1. Conference Room W208 shall include a projector rough-in, to project on the north wall of this room.
2. Boardroom E205 shall include a projector rough-in, to project on the west wall of this room.

Item No. 15 Drawing ID101 "First Floor Room Finish Plan, Pattern Plan & Schedule"

1. Delete PT-2 from FINISH LEGEND. All door frames to be painted PT-1, to match adjacent walls.

Item No. 16 Mechanical Sheet M101:

1. Add diffuser, thermostat, ductwork, volume damper, and fan coil unit FCU-1A to IT Room B103. See attached partial plan M101a.
2. From Plan Note 4, delete "x (length as shown)" and add to Plan Note 4 "All transfer air ducts will be made with fiberglass lined duct and shall include at least two 90 degree elbows."

Item No. 17 Mechanical Sheet M102:

1. Add diffuser, thermostat, ductwork, volume damper, and fan coil unit FCU-1B to Server Room E223. See attached partial plan M102a.
2. From Plan Note 4, delete "x (length as shown)" and add to Plan Note 4 "All transfer air ducts will be made with fiberglass lined duct and shall include at least two 90 degree elbows."

Item No. 18 Mechanical Sheet M103:

1. Provide hot and chilled water piping to the new fan coil unit FCU-1A. See attached partial plan M103a.

Item No. 19 Mechanical Sheet M104:

1. Provide hot and chilled water piping to the new fan coil unit FCU-1B. See attached partial plan M104a.

Item No. 20 Mechanical Sheet M201:

1. Sheet M201; Fan coil unit details; the condensate piping shall have a line size riser cleanout at the fan coil condensate trap.

Item No. 21 Mechanical Sheet M301:

1. Fan Coil Unit Schedule remove not used from FCU-1.

Indiana State Fair Commission Discovery Hall Tenant Improvements

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Item No. 22 Plumbing Sheet Sheet P101:

1. In Catering Kitchen/Breakroom Room B115 mount the sanitary cleanout in the wall above the ceiling of the breakroom.

Item No. 23 Plumbing Sheet P102:

1. For SK4, sink in Waiting Room W202, the hot water supply shall come from the chase immediately west of Men's Room 206. There is a lavatory in the corner. Delete the $\frac{3}{4}$ " HW coming from the chase immediately east of Men's Room 206.

Item No. 24 Electrical Sheet ED101:

1. IT Room B103, Add Plan Note 3 to existing unit heater'

Item No. 25 Electrical Sheet E101:

1. IT Room B103, Breakroom B115, Offices B116, B117, B120-B128, Copy & Product B129, Offices B130-B131, B133, B135-B137, Offices B141-B148, B150-B154, and B156, change Plan Note 4 to Plan Note 32.
2. Office B134, File Storage B140, Office B155, and Lab B183, delete light switches and Plan Note 4. Add occupancy sensor which is to be described by Plan Note 33. Location of occupancy sensor to be verified in the field.
3. BOAH Shell Space 104, delete two (2) Type D light fixtures from this room. Space remaining light fixtures evenly.
4. Marion County Extension Shell Space 106, delete three (3) Type D light fixtures from this room. Space remaining light fixtures evenly.
5. Exhibit 112, shift the seven (7) west most light fixtures 2' to the east.
6. File Storage B140, change the four (4) Type B light fixtures to Type F light fixtures.
7. Delete Plan Note 18.
8. Plan Note 23, delete "via Relay 6 in RP- BGD1".
9. Plan Note 24, delete "via Relay 7 in RP-BGD1".
10. Plan Note 25, delete "via Relay 8 in RP-BGD1".
11. Plan Note 26, delete "via Relay 9 in RP-BGD1".
12. Plan Note 27, delete "via Relay 10 in RP- BGD1".
13. Plan Note 28, delete "via Relay 14 in RP-BGD1".
14. Plan Note 29, delete "via Relay 15 in RP-BGD1".
15. Plan Note 30, delete "via Relay 16 in RP-BGD1".
16. Add Plan Note 32, it is to read as follows: "Occupancy sensor to be a dual technology single circuit wall occupancy sensor, Hubbell LHMTS or approved equal."
17. Add Plan Note 33, it is to read as follows: "Occupancy sensor to be a ceiling mounted dual technology occupancy sensor with power pack, Hubbell OMNI-DT500-UVPP-120V or approved equal."

Indiana State Fair Commission

Discovery Hall Tenant Improvements

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Item No. 26 Electrical Sheet E102:

1. AV Storage E203, change Plan Note 4 to Plan Note 31 and change Plan Note 28 to Plan Note 34.
2. Field Work E206, Coat Room E210, Director's Office E211, Copy/Production E212, Enclave E217, Locked Storage E220, Enclave E222, and Server E223, change Plan Note 4 to Plan Note 31.
3. Locked Storage E220, change Plan Note 18 to Plan Note 33.
4. Breakroom E226, delete light switches and Plan Note 4. Add occupancy sensor which is to be described by Plan Note 32. Location of occupancy sensor to be verified in the field.
5. Open Office/Map W204 and Mud Room W209, delete light switches and both Plan Notes 3. Add two occupancy sensors which are to be described by Plan Note 32. Location of occupancy sensors are to be verified in the field.
6. Entry W201, Waiting W202, Director Office W205, Office W206, and Office W207, change Plan Note 3 to Plan Note 31.
7. Office W207, delete Plan Note 13. Light fixtures in this room to be connected to lighting circuit in Office W206.
8. Conference W208, add Plan Note 13 to light fixtures in this room. Add two (2) light switches in this room. The two north most light fixtures are to be dual switched separately from the other light fixtures in the room. Plan Note 3 is to apply to all light switches in the room.
9. Board Room E205, add two (2) light switches in this room. The two west most light fixtures are to be dual switched separately from the other light fixtures in the room. Plan Note 4 is to apply to all light switches in the room.
10. Lobby E201, delete the west most Type C light fixture. Move the remaining two (2) Type C light fixtures approximately 18" to the north so they are in front of the cabinet work.
11. Copy/Production E212, relocate the west most light switches as required for change in door swing. See Architectural sheets.
12. Shell Space 212, delete three (3) Type D light fixtures from this room. Space remaining light fixtures evenly.
13. Plan Note 11, delete "via Relay 74 in RP-1GD2".
14. Plan Note 12, delete "via Relay 75 in RP-1GD2".
15. Plan Note 16, delete "via Relay 50 in RP-1GD1".
16. Plan Note 22, delete "via Relay 57 in RP-1GD2".
17. Plan Note 23, delete "via Relay 58 in RP-1GD1".
18. Add Plan Note 31, it is to read as follows: "Occupancy sensor to be a dual technology single circuit wall occupancy sensor, Hubbell LHMTS or approved equal."
18. Add Plan Note 32, it is to read as follows: "Occupancy sensor to be a ceiling mounted dual technology occupancy sensor with power pack, Hubbell OMNI-DT500-UVPP-120V or approved equal."
19. Add Plan Note 33, it is to read as follows: "1GDP1-35".
20. Add Plan Note 34, it is to read as follows: "1GDP1-4".
21. Existing Lighting Control Panel Detail: make the following changes to the Nameplate Legend. Change relays controlled for No. 4 to 2-5,26, No. 8 to 49,51,52,54-56,59, No. 9 to 76.

Indiana State Fair Commission Discovery Hall Tenant Improvements

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22. Existing Lighting Control Panel Detail: add the following note. Add switches as required to existing lighting control panel. Switches to match existing switches. Provide all wiring between relay panels and lighting control panel.

Item No. 27 Electrical Sheet E103:

1. Lab B183, delete Plan Note 23.
2. Boiler Room 105, the existing Fire Alarm Panel is located on the north half of the east wall, not where it is shown. The existing electrical panels on the north wall are located as far east as they can be. Under the west most window is a communication pullbox with 1-4"C that runs from the pullbox to the Exhibit Hall. There is also a 2" Conduit to the west of the pullbox that runs to the Exhibit Hall. The Exhibit Hall is the building to the west of Discovery Hall.
3. Plan Note 25, change to read: "Provide 2-2" conduits from IT Room B103 to existing communication pullbox on north wall of Boiler Room 105 for internet and telephone service. Provide 12 strand multimode fiber from IT Room B103 through the 2-2"conduits, through the existing communication pullbox, and through the existing conduits that run to the Exhibit Hall to a demarc location in the Exhibit Hall. The demarc location will be determined in the field. A length of 300' is to be included in the bid for the cabling from the existing communication pullbox to the demarc location."
4. IT Room B103, delete all work associated with SAC-1, EVP-1, and Plan Note 20. Connect FCU-1A to circuit BGDP3-17 (same circuit as FCU-5B).
5. IT Room B103, provide an equipment rack with patch panels for data and telephone outlets. All data and telephone cabling shall be terminated on these patch panels. See Specification Section 271116 in this addendum.
6. Delete Plan Notes 20 and 23.

Item No. 28 Electrical Sheet E104:

1. Right outside of Server Room E223, change Plan Note 33 to Plan Note 158.
2. Plan Note 18, change to read: "Provide 2-2" conduits from Server Room E223 to existing communication pullbox on north wall of Boiler Room 105 for internet and telephone service. The 2-2" conduits are to drop down through the floor of Server Room E223 and run above the first floor ceiling. Location of penetration through the floor of Server Room E223 is to be determined in the field. Provide 12 strand multi-mode fiber and 200 pair telephone cable from Server Room E223 through the 2-2"conduits, through the existing communication pullbox, and through the existing conduits that run to the Exhibit Hall to a demarc location in the Exhibit Hall. The demarc location will be determined in the field. A length of 300' is to be included in the bid for the cabling from the existing communication pullbox to the demarc location."
3. Shell Space 212, delete the note "Down to Boiler Room."
4. Server Room E223, delete all work associated with SAC-2, EVP-2, and Plan Note 29. Connect FCU-1B to circuit 1GDP3-24 (same circuit as FCU-2F).
5. Delete Plan Note 29.

Indiana State Fair Commission
Discovery Hall Tenant Improvements

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6. Server Room E223, provide an equipment rack with patch panels for data and telephone outlets. All data and telephone cabling shall be terminated on these patch panels. See Specification Section 271116 in this addendum.
7. Conference Room W208, provide junction box, data outlet, and duplex receptacle mounted in ceiling for projector. Route conduit from junction box in ceiling to junction box on north wall. Junction box on north wall to be adjacent to data outlet. Plan Note 32 shall apply to junction box. Connect receptacle to circuit 1GDP7-15.
8. Board Room E205, provide junction box, data outlet, and duplex receptacle mounted in ceiling for projector. Route conduit from junction box in ceiling to junction box on west wall. Junction box on west wall to be adjacent to data outlet. Plan Note 32 shall apply to junction box. Connect receptacle to circuit 1GDP5-20.
9. Copy/Production E212, see 8 ½ x 11 drawing in this addendum.

Item No. 29 Electrical Sheet E302:

1. Existing Panel BGD3, change load description for circuits 13,15 to Spare .
2. Existing Panel 1GDP3, change circuits 36,38 to Spare and remove requirement for new circuit breaker.

Item No. 30 Electrical Sheet E303:

1. Existing Lighting Relay Panel RP-BGD1: change the load descriptions for Relay Numbers 6, 7, 8, 9, 10, 14, 15, and 16 to Spare.
2. Existing Lighting Relay Panel RP-1GD1: change the load descriptions for Relay Numbers 50, 57, and 58 to Spare. Change the load description for Relay Number 52 to Lighting – E221. Change the load description for Relay Number 62 to Lighting – E204, Fluorescents.
3. Existing Lighting Relay Panel RP-1GD2: change the load descriptions for Relay Numbers 74 and 75 to Spare. Change the load description for Relay Number 76 to Lighting – W208, W210.

SECTION 10 22 26.33

FOLDING PANEL PARTITIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Acoustic operable panel partition.
- B. Ceiling track, ceiling guards, and operating hardware.

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Wood blocking and track support shimming.
- B. Section 07 90 05 - Joint Sealers: Acoustical sealant.

1.03 REFERENCE STANDARDS

- A. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
- C. ASTM E 413 - Classification for Rating Sound Insulation.
- D. ASTM E 557 - Standard Guide for The Installation of Operable Partitions.
- E. ASTM E 596 - Standard Test Method for Laboratory Measurement of Noise Reduction of Sound-Isolating Enclosures.
- F. ASTM F 793 - Standard Classification of Wallcovering by Use Characteristics.
- G. NEMA LD 3 - High-Pressure Decorative Laminates; National Electrical Manufacturers Association.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on partition materials.
- C. Shop Drawings: Indicate opening sizes, track layout, details of track and required supports, and stacking depth.
- D. Samples for Selection: Submit two samples of full manufacturer's color range for selection of colors.
- E. Samples for Review: Submit two samples of surface finish, 12 x 12 inches size, illustrating quality.
- F. Manufacturer's Instructions: Indicate special procedures.
- G. Certificates: Certify that partition system meets or exceeds specified acoustic requirements.
- H. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods. Describe cleaning materials detrimental to finish surfaces and hardware finish.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified this section with minimum three years of documented experience.

PART 2 PRODUCTS

- A. Acceptable Manufacturers:
 - 1. Hufcor, Inc: www.hufcor.com.
 - 2. Modernfold, Inc: www.modernfold.com.
 - 3. Panelfold, Inc: www.panelfold.com.

2.02 COMPONENTS

- A. Operable Panel Partition: Center opening; paired panels; center stacking; manually operated.
 - 1. Panel Finish: Manufacturers standard acoustical carpet at 23 oz. per linear yard.
 - 2. Noise Reduction Coefficient (NRC): ASTM E 596, NRC of 0.65 minimum.
 - 3. Sound Transmission Class (STC): 48-52 calculated in accordance with ASTM E 413, based on tests conducted in accordance with ASTM E 90, on panel size of 100 sq ft.
 - 4. Surface Burning Characteristics of Panel Finish: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E 84.
 - 5. Installed partition system track capable of supporting imposed loads, with maximum deflection of 1/360 of span.
- B. Panel Construction:
 - 1. Panel Substrate Facing: Steel sheet,.0478 inch thick.
- C. Core: 16 gage formed sheet steel frame top, bottom, jambs, and intermediates; welded construction, internally reinforced at suspension points, with acoustical insulation fill.
 - 1. Trim: Trimless.
 - 2. Hinges: Continuous piano type, 18 gage stainless steel.
 - 3. Panel to Panel Seals: Grooved and gasketed astragals; continuous flexible ribbed vinyl seal fitted to panel edge construction; color to match panel finish.
- D. Track: Formed steel; 1-5/8 x 1-5/8 inches size; thickness and profile designed to support loads, steel sub-channel and track connectors, track switches.
- E. Carriers: Ball bearing, steel wheels on trolley carrier at top of every _____ panel, sized to carry imposed loads, with threaded pendant bolt for vertical adjustment.
- F. Hardware: Latching door handles of cast steel, satin chrome finish; lock cylinder keyed to building keying system; pull bars; _____.
- G. Acoustic Seals: Flexible acoustic seals at jambs, meeting mullions, ceilings, retractable floor and ceiling seals, and above track to structure acoustic seal.
- H. Accessories: White enameled ceiling closure; aluminum jamb and head molding, fittings and attachments, and intermediate meeting posts.
- I. Pocket Enclosures: Door, frame, and trim to match adjacent walls.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify track supports are laterally braced and will permit track to be level within 1/4 inch of required position and parallel to the floor surface.
- C. Verify floor flatness of 1/8 inch in 10 feet, non-cumulative.
- D. Verify wall plumbness of 1/8 inch in 10 feet, non-cumulative.

3.02 INSTALLATION

- A. Install partition in accordance with manufacturer's instructions and ASTM E 557.

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- B. Fit and align partition assembly and pocket doors level and plumb.
- C. Lubricate moving components.
- D. Apply acoustic sealant to achieve required acoustic performance.

3.03 ADJUSTING

- A. Adjust partition assembly to provide smooth operation from stacked to full open position. Do not over-compress acoustic seals.
- B. Visually inspect partition in full extended position for light leaks to identify a potential acoustical leak.
- C. Adjust partition assembly to achieve lightproof seal.

3.04 CLEANING

- A. Clean finish surfaces and partition accessories.

3.05 CLOSEOUT ACTIVITIES

- A. Demonstrate operation of partition and identify potential operational problems.

END OF SECTION

SECTION 271116

TELEPHONE/DATA WIRING SYSTEM

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. The work required under this section consists of providing a Telephone/Data Wiring System for the Discovery Hall Tenant Improvement Project at the Indiana State Fairgrounds.
- B. Provide all equipment, accessories, materials, wiring, etc., for a complete Telephone/Data Wiring System in accordance with the specifications and applicable drawings.
- C. All materials and/or equipment necessary for complete and proper operation of the system not specified or described herein shall be considered part of the specifications. The contractor shall provide complete service notes and drawings detailing all interconnections.
- D. It is the responsibility of the contractor to supply a working overall system. The contractor shall notify the Architect of any discrepancies in the specifications prior to bid. Minor items of equipment, etc., needed to fulfill the specifications and requirements, even if not specifically mentioned herein, are to be supplied under this contract.

1.02 RELATED WORK

- A. Section 260500 – Basic Electrical Requirements
- B. Section 260533 – Conduit
- C. Section 260353 – Outlet Boxes
- D. Section 260529 – Supporting Devices

1.03 SUBMITTALS

- A. Shop drawings shall be submitted on materials and equipment for the principal portions of the system.

1.04 WARRANTY

- A. The contractor shall be certified by the manufacturer of the equipment installed and shall be able to provide a 20 year extended system warranty.
- B. The warranty must be a manufacturer's warranty, not a contractor's warranty.
- C. System defects and failures occurring during the warranty period are to be analyzed within 24 hours of notification of such defects and failures. Permanent remedy for any defect or failure will be provided within a reasonable time, however, under no circumstances shall the system be partially or wholly inoperable for more than 24 hours due to a component defect or failures.
- D. If the manufacturer voids a warranty due to the work of the Contractor, the Contractor shall assume the responsibility for the warranty, to include the materials and labor required to remove, replace, and reconnect the component during the term established by the manufacturer's warranty.

1.05 QUALITY ASSURANCE

- A. Experience
 - 1. Installer shall have skilled and experienced personnel, and who, within the past three years have completed projects of this size.

2. Installer shall be a manufacturer authorized installer for all equipment and materials bid and provide the following:
 - a. Certifications & Licensees
 - b. Installer shall have Manufacturer Training Certifications.

1.06 STANDARDS

- A. All work shall conform to or exceed the minimum requirements of the following guidelines and organizations:
 1. ANSI: American National Standards Institute.
 2. TIA: Telecommunications Industry.
 3. EIA: Electronics Industry Alliance.
 4. IEEE: Institute of Electrical and Electronic Engineers.
 5. NEMA: National Electrical Manufacturer's Association.
 6. NEC: National Electrical Code.
 7. FCC: Federal Communications Commission.
 8. NFPA: National Fire Protection Association.
 9. OSHA: Occupational Health and Safety Administration.
 10. UL: Underwriters Laboratories, Inc.

PART 2 - PRODUCTS

2.01 STRUCTURED CABLING SYSTEMS FOR DATA/TELEPHONE WIRING

- A. Provide a Structured Cabling System with the manufacturer's 20 year warranty for all interior building cabling systems using optical fiber cables and standard twisted pair copper wire. The "Structured Cabling System" shall be comprised of copper and optical fiber cables, crossconnects, terminal blocks and protectors, adapters, connecting blocks, and standard items of equipment for premises wiring.
- B. MANUFACTURERS
 1. Provide units by one of the following manufacturers:
 - a. AT&T/Lucent Technologies SYSTIMAX Structured Cabling System.
 - b. BELDEN-KRONE Certified Cabling System
 - c. Hubbell Premise Wiring Structured Cabling System
 - d. LEVITON
 - e. PANDUIT PAN-NET Network Cabling System.
- C. CERTIFICATION/PERFORMANCE
 1. Installation of the Structured Cabling System shall be by a certified installer approved by the system manufacturer.
 2. All cabling components, manufacturers, devices shall be approved and certified by the Structured Cabling System Manufacturer for use with their system.
 3. All cabling components shall meet or exceed the specifications of the TIA 568.

2.02 DATA/TELEPHONE OUTLET CABLING

A. CATEGORY 6 CABLES

1. Provide four (4) pair unshielded twisted pair (UTP) 600 MHZ enhanced Category 6, plenum rated, #23 solid bare copper, fluorinated ethylene propylene (FEP) insulation, bonded pairs, e-spline center member, Low smoke polyvinyl chloride (LSPVC) jacket, rip cord and sequential marking at two foot intervals.
2. Cabling shall conform to the following color scheme:
White/Blue Stripe & Blue
White/Orange Stripe & Orange
White/Green Stripe & Green
White/Brown Stripe and Brown
3. Cabling shall be Belden 7852A Paired, Data Twist Enhanced Category 6 or approved equal.

B. VOICE BACKBONE CABLING

1. Interior Voice Backbone
 - a. Provide multi-pair Category 3 cabling for voice backbone. Cabling shall be gray in color and plenum-rated with FR-PVC jacket. Number of pairs as indicated on drawings.
 - b. Cabling shall be Superior Essex CMP 18-XXX-XX or approved equal.

C. OPTICAL FIBER CABLING

1. Interior Multimode Fiber
 - a. Provide 62.5/125um, 12 strand multimode fiber. Cabling shall be plenum rated with a flame resistant outer jacket.
 - b. Cabling shall be Superior Essex #440126G01 or approved equal.
2. Interior Single Mode Fiber
 - a. Provide 12 strand single mode fiber. Cabling shall be plenum rated with a flame resistant outer jacket.
 - b. Cabling shall be Superior Essex #440123101 or approved equal.

2.03 COMMUNICATION OUTLET COMPONENTS

A. CATEGORY 6 JACKS

1. Provide category 6 jacks with Keystone Design.
2. Jacks shall be compatible with standard 110 termination tools and backwards compatible to Category 3, 5, and 5E.
3. Voice jacks shall be red in color.
4. Data jacks shall be green in color.
5. Jacks shall be Hubbell xcelerator Category 6 jacks or approved equal.

B. COVER PLATES

1. Provide cover plates compatible with the Category 6 jacks supplied.
2. Cover plates are to be ivory in color.
3. Cover plates are to be supplied with paper labels, clear screw covers, and color matched screw covers.
4. Cover plates shall be Hubbell IFP series or approved equal.

2.04 IDF RACKS AND ACCESSORIES

A. EQUIPMENT RACK

Indiana State Fair Commission
Discovery Hall Tenant Improvements

ARGO Consulting Engineers, Inc.

1. Provide a 48" H x 20.7" W x 18" D wall mounted equipment rack.
2. Equipment rack to have a minimum of 24 rack units of space.
3. Equipment rack to be medium steel and have a durable black powder coat finish.
4. Equipment rack to be Hubbell Next Frame HPWWMR48 or approved equal.

B. PATCH PANELS FOR TELEPHONE AND DATA OUTLETS

1. Provide 48 port panels for termination of Category 6 cables.
2. Panel to be made of 14 gauge steel rolled-edge construction and have a durable black powder coat finish.
3. Patch panels shall mount to standard 19" rack.
4. Patch panels to be Hubbell P5E48UE or approved equal.

C. FIBER PATCH PANELS

1. Provide fiber patch panels for termination of fiber.
2. Panel to be made of 16 gauge old rolled steel and to have a durable black powder coat finish.
3. Provide panels in the number of terminations as indicated on the drawings.
4. Patch panels shall mount to standard 19" rack.
5. Panels to be Hubbell Series FCR or approved equal.
3. Provide FSP series adapter panels in quantity required.

D. 100 PAIR 110 BLOCKS

1. Provide 100 pair 110 blocks for termination of telephone outlets and voice backbone cabling.
2. 110 blocks are to be made of fire-retardant plastic. Panel to be made of 14 gauge steel with durable black powder coat finish.
3. 110 blocks shall mount to standard 19" rack.
4. 110 blocks to be Hubbell series 110RM or approved equal.

E. WIRE MANAGEMENT

1. Provide wire management components for management of horizontal cabling.

2.07 IDENTIFICATION

- A. Provide labeling of all devices and cabling in accordance with TIA 568-D.

2.08 DATA SYSTEMS EQUIPMENT

- A. Major data network components are being furnished by the owner.

2.09 MISCELLANEOUS COMPONENTS

A. CABLE & WIRING SUPPORTS

1. Provide wall mounted cable support hooks, fasten to wall or structural steel.
2. Cable support hooks shall be "j" in shape with a minimum 2" wide cross-section and 2" effective depth. Fasten to wall or structural steel with two fasteners per hook. Units may be field constructed of sheet metal, unistrut, or a manufactured product meeting the above requirements.
3. Wire rings or wire "j" hooks are not acceptable.

B. VELCRO FASTENERS

1. Provide Leviton PolyStrap, or approved equal, Velcro fasteners to bundle cables.

C. PATCH CORDS

1. Provide Category 6 component compliant with patch cords
2. Patch cords shall be 10' in length.

3. Patch cords shall be Panduit UTPSP10 or approved equal.

PART 3 – EXECUTION

3.01 GENERAL REQUIREMENTS

- A. All systems shall be permanently installed, operational, ready for use, tested and certified as required by this specification before final acceptance by the building owner.
 1. Cabling:
 - a. All cabling in finished areas shall be concealed from view.
 - b. Bundle cables and harness bundles with 1" wide Velcro fasteners no more than every 36" (or in accordance with manufacturer warranty requirements, whichever is the shorter distance) to bridle rings attached to steel structure.
 - c. Maintain separation of cables as follows:
 - (1) 12" from fluorescent lighting fixtures.
 - (2) 40" from electrical motors
 - d. Manage all cable and materials in the most professional manner possible.
 - e. Form harnessed cables either vertically or horizontally to equipment controls and termination.
 - f. Provide ample service loops for all cables broken out from a harness for termination, so that plates, panels and equipment can be serviced and inspected.
 - g. Install all wiring free from grounds, shorts, opens and reversals.
 - h. Do not splice any cables between specified terminations.
 - i. Use only properly installed crimp-type connectors. Screw-type connectors will not be accepted.
 - j. Use plenum-rated cable and cable ties in plenum areas.
 - k. Employ temporary guides, sheaves, rollers, and other necessary items to protect cables from excess tension, abrasion or damaging bending during installation.
 - l. Use proper strip tool for the cable jacket.
 - m. Maximum length of untwisted pairs is 0.5".
 - n. Allow 12" of cable slack behind outlets.
 - B. Optical Fiber Splices:
 1. All splices made to optical fibers shall be made utilizing the fusion method. All testing of cables shall include all spliced joints.
 - C. Equipment:
 1. Use only UL-listed equipment and tools that are be designated and rated for 117V, 60 Hz, AC operation.
 - D. Securely mount all equipment plumb and square in place. All equipment installed in cabinets shall be secured with mounting bolts (nylon washers only) in all equipment fastening holes.
 - E. Equipment cabinets shall be installed to allow for future expansion and addition of cabinet sections.

- F. Provide blank panels to cover all unused equipment cabinet spaces.
- G. Raceways:
 - 1. Paint exposed portions of metal conduit entering an equipment cabinet to match the cabinet.
 - 2. Do not fill any conduit to more than 40% of its internal cross-sectional area.
 - 3. Do not bend conduits to less than recommended radius.
 - 4. Seal all firewall penetrations with appropriate sealant to restore the fire rating.
- H. Installation:
 - 1. Data/Voice Jacks and Cabling
 - a. Cables shall be installed continuous from outlet to IDF patch panels without splices or taps.
 - b. A unique permanent identification label shall be secured to each data and voice outlet cover plate, corresponding back to a companion identification at the cabling termination at the wiring closet. All cables must be identified at both ends.
- I. Grounding and Bonding
 - 1. Bond all data/voice equipment to the primary grounding electrode conductor.

3.02 SYSTEM CONFIGURATION

A. DATA/TELEPHONE NETWORK

- 1. IDF locations
 - a. It is expected that the construction and organization of each wiring cabinet shall reflect professional workmanship and shall provide the maximum convenience for the user with all equipment installed in a neat and organized manner.
 - b. All racks and mounts shall be installed plumb and square without twists in the frames or variations in level between adjacent devices.
 - c. All metallic conduit, boxes and enclosures shall be permanently and effectively grounded in accordance with the National Electrical Code. A Green Ground wire shall be connected to the building electrical service entrance ground.
 - d. All system components and related wiring shall be located with due regard to minimizing induced electromagnetic and electrostatic noise, wiring lengths, safety and convenience.
 - e. All switches, jacks, outlets, plugs, receptacles, electronics etc. shall be clearly, logically and permanently labeled for future reference.

3.03 CERTIFICATION OF SERVICE

- A. All work shall conform to or exceed, the minimum requirements of the current edition of ANSI/NFPA 70 with State of Indiana amendments, ANSI/AEE C2, and all federal, state, local and municipal codes and ordinances.
- B. The contractor will:
 - 1. Use only personnel authorized by the manufacturer of the materials being used.
 - 2. Have on site a competent supervisor, and qualified supporting technical personnel must be available during the entire installation.

3. Supervise the installation of all cable to ensure proper:
 - a. Pulling tensions
 - b. Quantities
 - c. Types
 - d. Lengths
 - e. Routing
 - f. Wire group separation
 - g. Identification
4. Install all material in accordance with manufacturer's instructions.

3.04 TRAINING AND SUPPORT

A. General Requirements

1. Training personnel shall be familiar with the installed system and be proficient at demonstrating all system functions. Provide the personnel to meet the following schedule of support & training.
2. Provide the training needed to prepare system operators to maintain the system.
3. Initial Demonstration of system operation: (1) 4 hour session.

3.05 CABLE AND OUTLET CERTIFICATION

A. GENERAL REQUIREMENTS.

1. The contractor shall perform all equipment and system adjustments, tests and measurements as specified in this section, as well as those specified in the Contract Documents. All testing is the responsibility of the Contractor, and all associated costs shall be included in the Bid.
2. The Contractor and the Owner, or Owners designate, shall jointly conduct all final on site tests of system components, and the Owner will not sign off final acceptance until all system specifications are met.
3. The Owner shall be presented a printed report for each required test to document the certification and compliance.
4. The contractor shall be responsible for providing all testing equipment.
5. The Contractor shall provide the Owner a written report of all initial adjustments and verification tests, including all relevant drawing, charts, documentation and photographs, at least five days in advance of the Owner's review for final acceptance.
6. Upon completion of system testing and certification, the Contractor shall have demonstrated to the Owner's satisfaction that all systems function to their rated specifications. In the event that the system requires further adjustments or installation, the contractor shall provide the Owner with a new expected date of completion. Any additional costs, including additional consulting fees, to provide an acceptable system will be at the expense of the Contractor.

B. DATA/TELEPHONE OUTLETS AND COPPER CABLING

1. All voice and data outlets shall be tested and certified according to IEEE standards from the outlet to the MDF or IDF. All testing will be in accordance with TIA/EIA Technical Service Bulletin 67 (TSB-67) channel link standards for UTP cabling systems at 10, 20 and 100 Mhz.

2. The owner shall be presented a printed report directly generated from an Owner approved testing device for each outlet at each frequency, to document the certification and compliance of each RJ-45 outlet.
3. The following parameters shall be tested:
 - a. Wire mapping.
 - b. Length tests to verify all cable lengths.
 - c. Insertion loss.
 - d. NEXT loss.
 - e. Return loss.
4. Testing Conditions.
 - a. No cabling or components shall be moved during the testing.
 - b. In addition to Pass/Fail indicators, all measured values shall be documented and provided to the Owner.
 - c. Unless a specific test requires otherwise, all tests must be measured from both ends of each cable run.

C. OPTICAL FIBER

1. All optical fiber must be tested to verify that end-to-end attenuation is within TIA-568A published specifications.
2. It is not necessary to field test multimode cable bandwidth, if the bandwidth is provided in the manufacturer’s technical documentation. The Optical Fiber performance shall meet the following schedule:

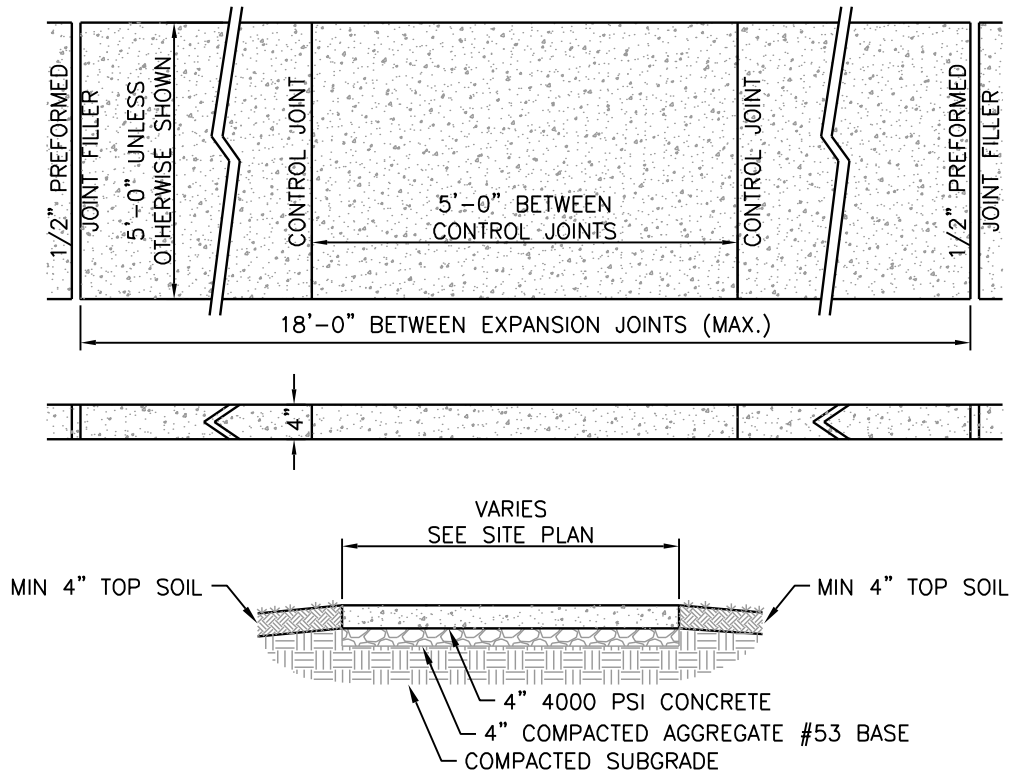
Multimode Wavelength (nm)	Maximum Attenuation (dB/km)	Minimum Bandwidth (Mhz- km)
850	3.5	160
1300	1.5	500
Singlemode Wavelength (nm)	Maximum Attenuation (dB/km)	
1310	0.5	
1550	0.5	

3. System shall be tested to operate at 100 Mbps.

3.06 CONDUIT INSTALLATION

- A. The intent of this project is to install all raceways concealed in finished areas and surface mounted in all unfinished areas. Surface raceway in finished area shall only be used where specifically approved by the building owner.

END OF SECTION



CONCRETE SIDEWALK

NO SCALE

TITLE: CONCRETE SIDEWALK DETAIL

SKETCH NUMBER C-1

Date:
7/7/2011

SCALE:
NTS

PROJECT NO:
020417-20000



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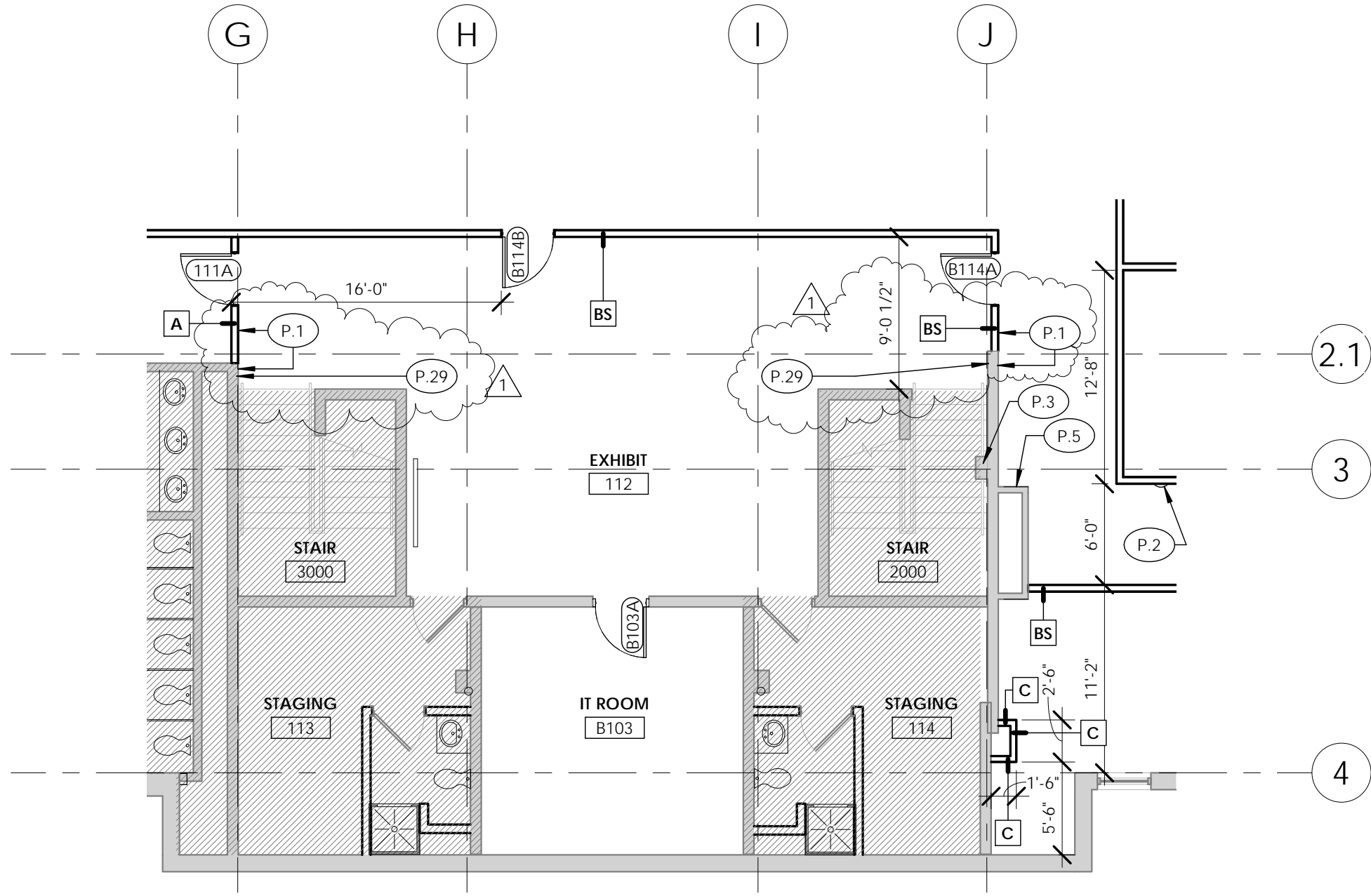
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- ARCHITECTURE
- EQUIPMENT PLANING
- INTERIOR DESIGN
- CIVIL / TRANSPORTATION ENGINEERS
- LAND PLANNING
- LAND SURVEYING
- GIS
- OWNER'S REPRESENTATION

1

FIRST FLOOR PLAN

1/8" = 1'-0"



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- ARCHITECTURE
- INTERIOR DESIGN
- CIVIL ENGINEERING
- MECHANICAL ENGINEERS
- LAND SURVEYING
- GIS
- OWNERS REPRESENTATION



CHANGES TO WING WALLS

SHEET

ADD.1-1

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TYPE OF DWG: APPENDUM 1

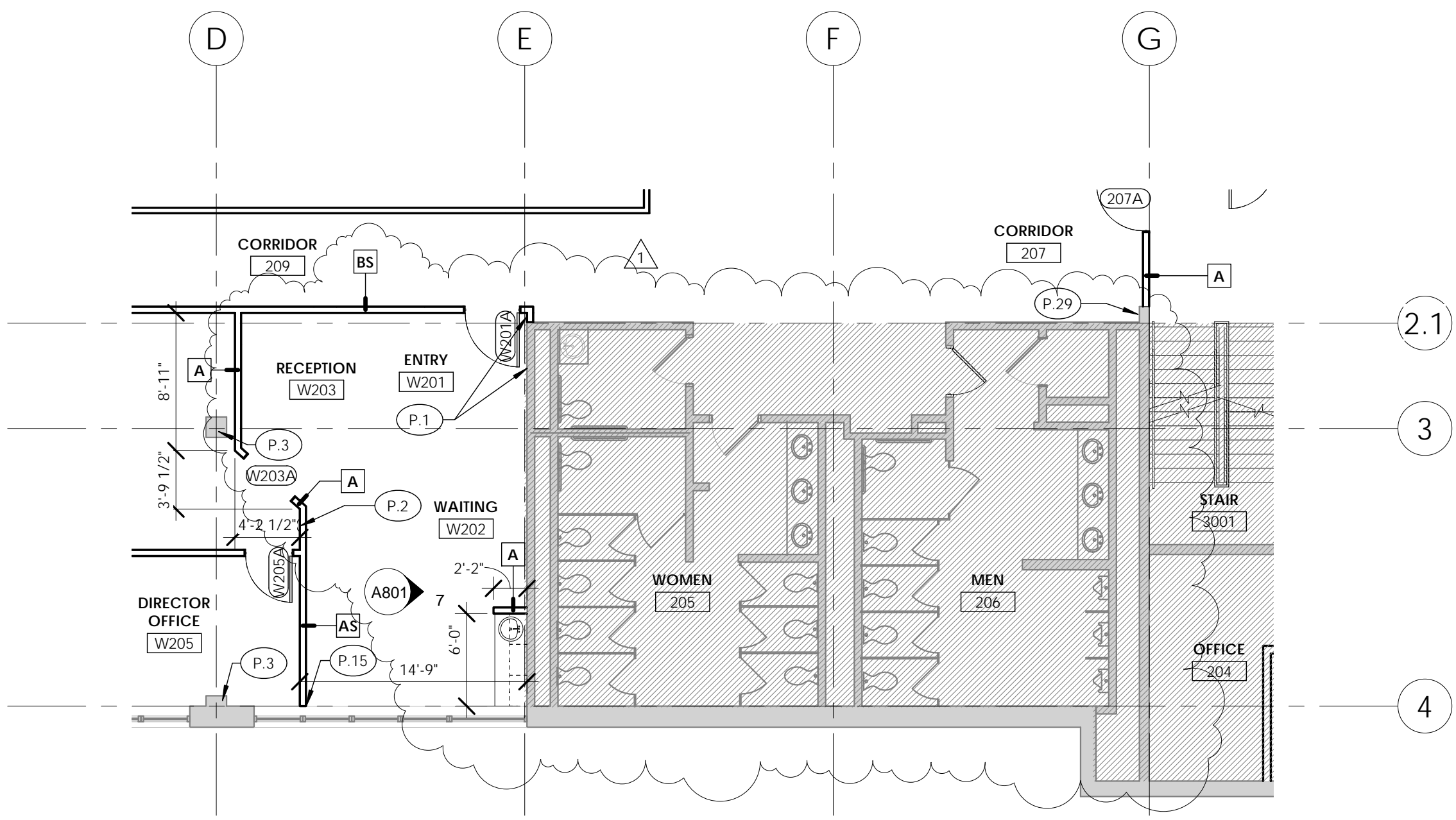
DATE: 06/24/2011

JOB NO.:

0020417-80000

JOB NAME: DISCOVERY HALL TENANT IMPROVEMENTS

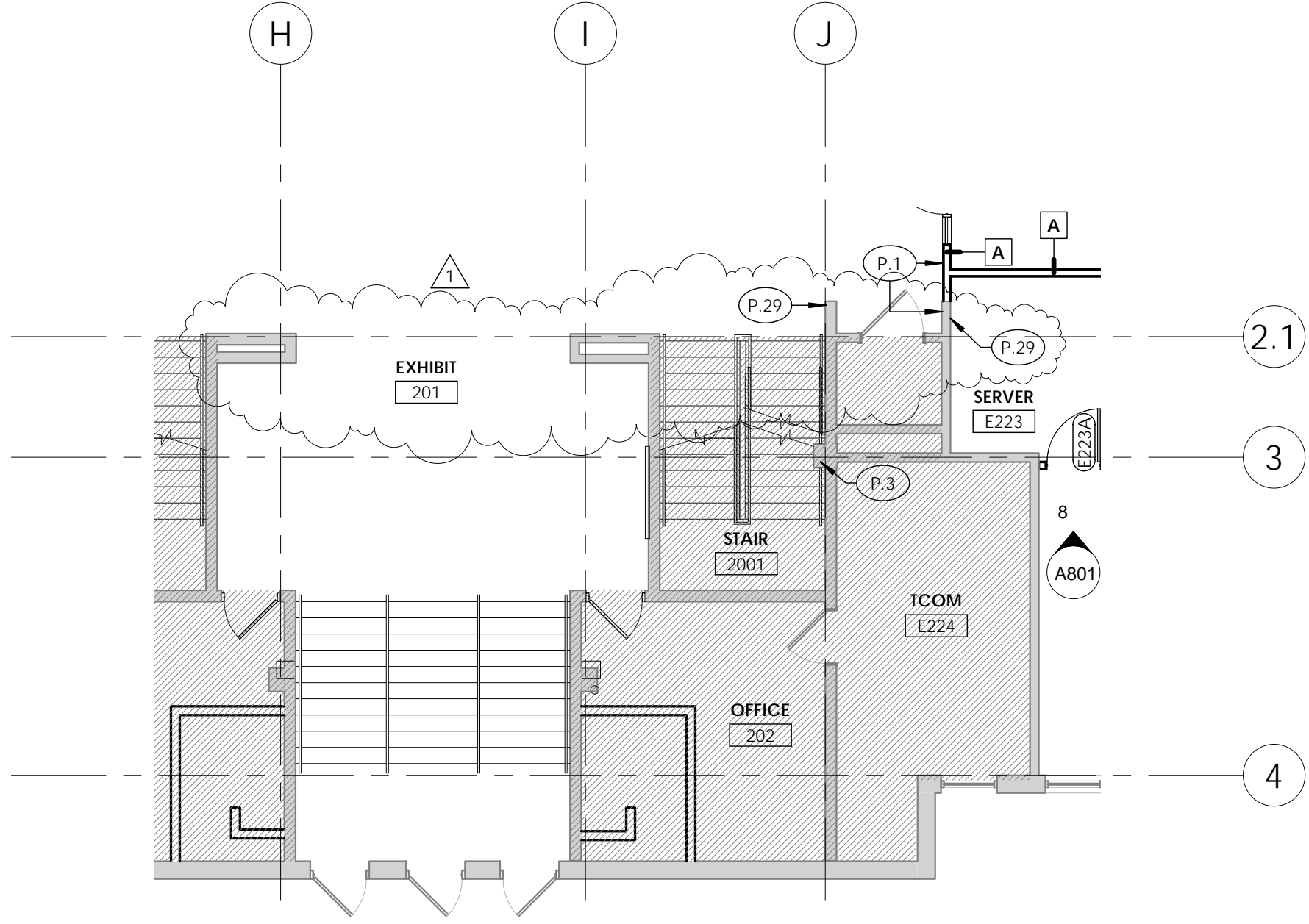
JOB ADDRESS:
Indiana State Fair Commission
1202 East 38th Street
Indianapolis, Indiana 46205



1 SECOND FLOOR PLAN
1/8" = 1'-0"

<p>3939 PRIORITY WAY SOUTH DRIVE, SUITE 400 INDIANAPOLIS, INDIANA 46240 (317) 844-6777 FAX (317) 706-6464 E-Mail: cripe@cripe.biz</p> <p> ● ARCHITECTURE ● INTERIOR DESIGN ● CIVIL/TRANSPORTATION ENGINEERS ● LAND SURVEYING ● GIS ● OWNERS REPRESENTATION </p>	<p>DATE: 06/24/2011</p>	<p>JOB NO: 0020417-80000</p>
	<p>JOB NAME: DISCOVERY HALL TENANT IMPROVEMENTS</p> <p>JOB ADDRESS: Indiana State Fair Commission 1202 East 38th Street Indianapolis, Indiana 46205</p>	
<p>SHEET: ADD.1-2</p>		
<p>CHANGES TO EXISTING TOILET ROOM DOCUMENTATION</p>		
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1 SECOND FLOOR PLAN
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 ● OWNERS REPRESENTATION

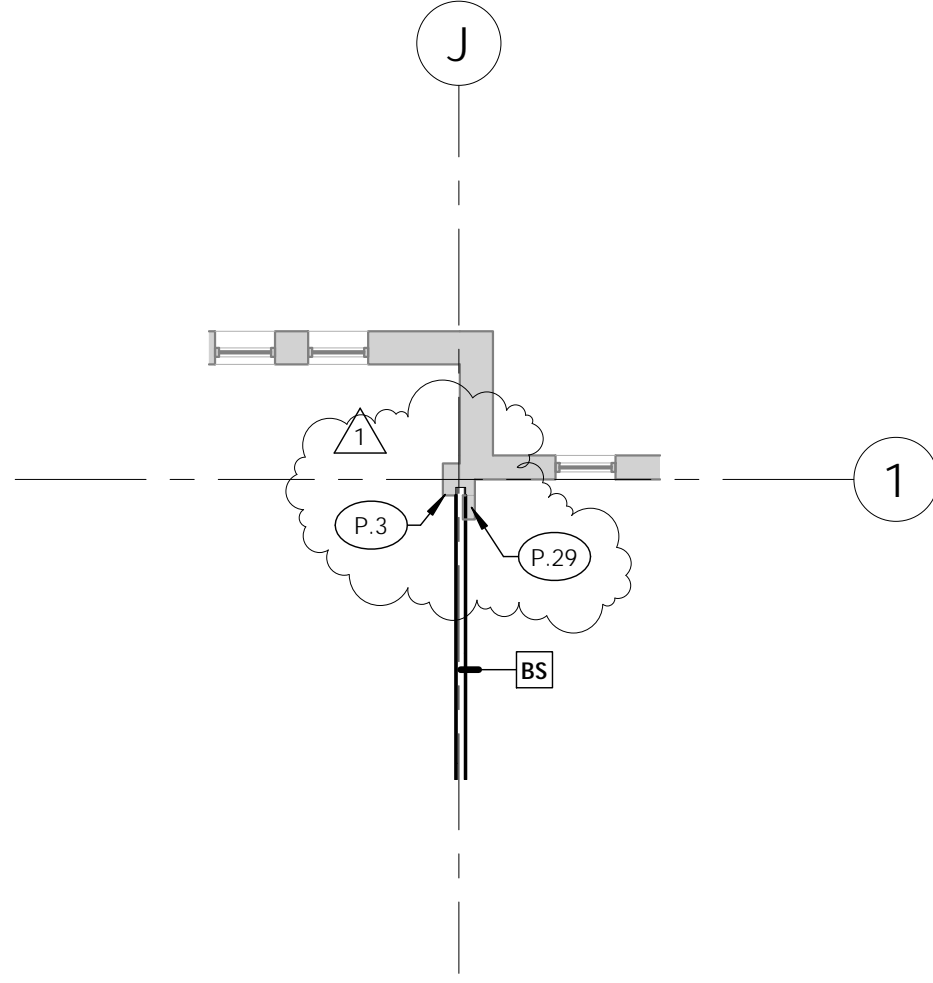


CHANGES TO WING WALLS
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 TYPE OF DWG: ADDENDUM 1

SHEET
ADD.1-3

DATE: 06/24/2011 JOB NO: 0020417-80000
 JOB NAME: DISCOVERY HALL TENANT IMPROVEMENTS
 JOB ADDRESS: Indiana State Fair Commission
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1 SECOND FLOOR PLAN
1/8" = 1'-0"



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CHANGES TO NOTES AT WING
WALL

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TYPE OF DWG: ADDENDUM 1

SHEET

ADD.1-4

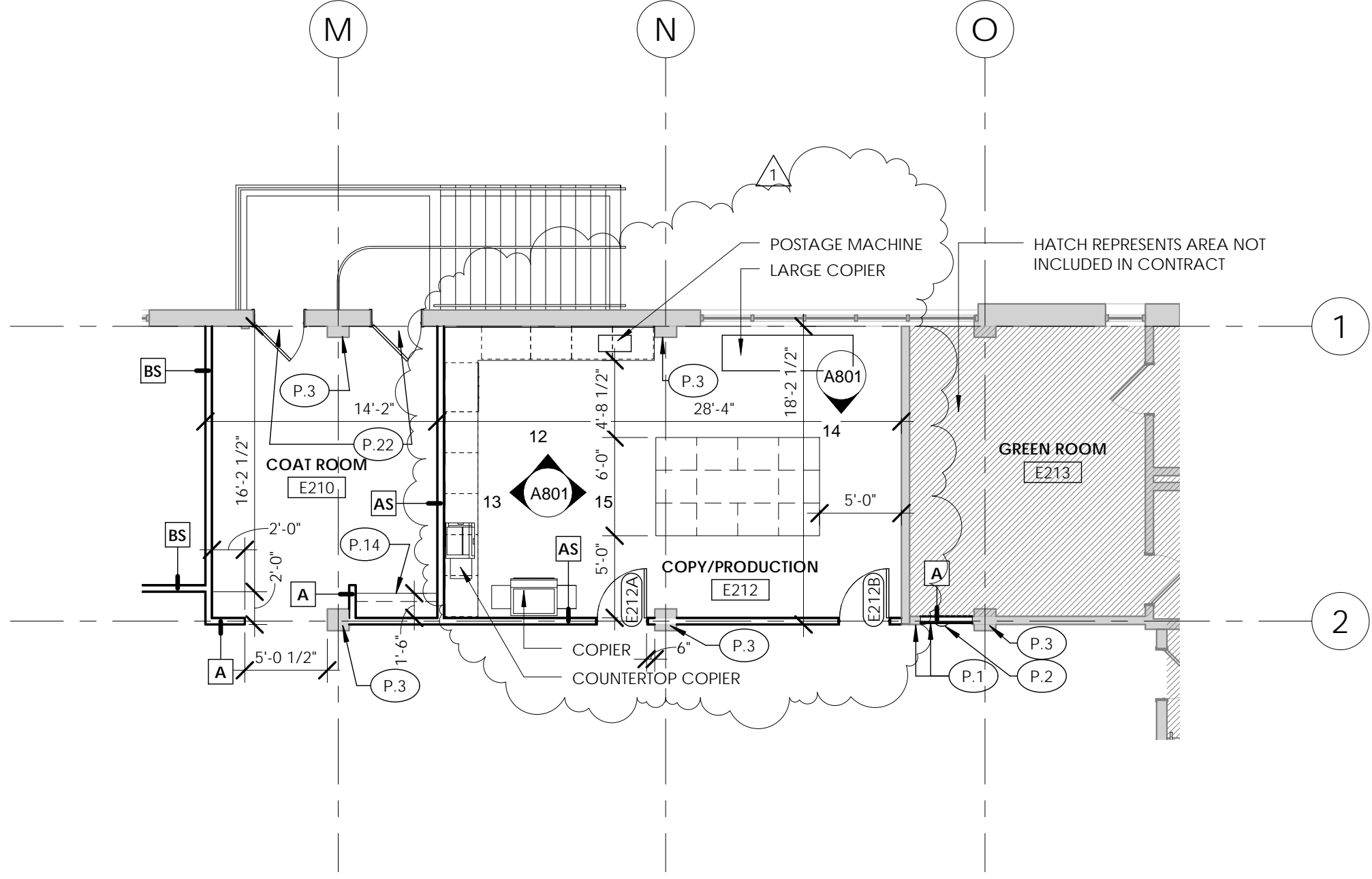
DATE: 06/24/2011

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1 SECOND FLOOR PLAN
1/8" = 1'-0"



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CHANGES TO LAYOUT OF
COPY/PRODUCTION ROOM

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TYPE OF DWG: ARCHITECTURAL

ADD.1-5

SHEET

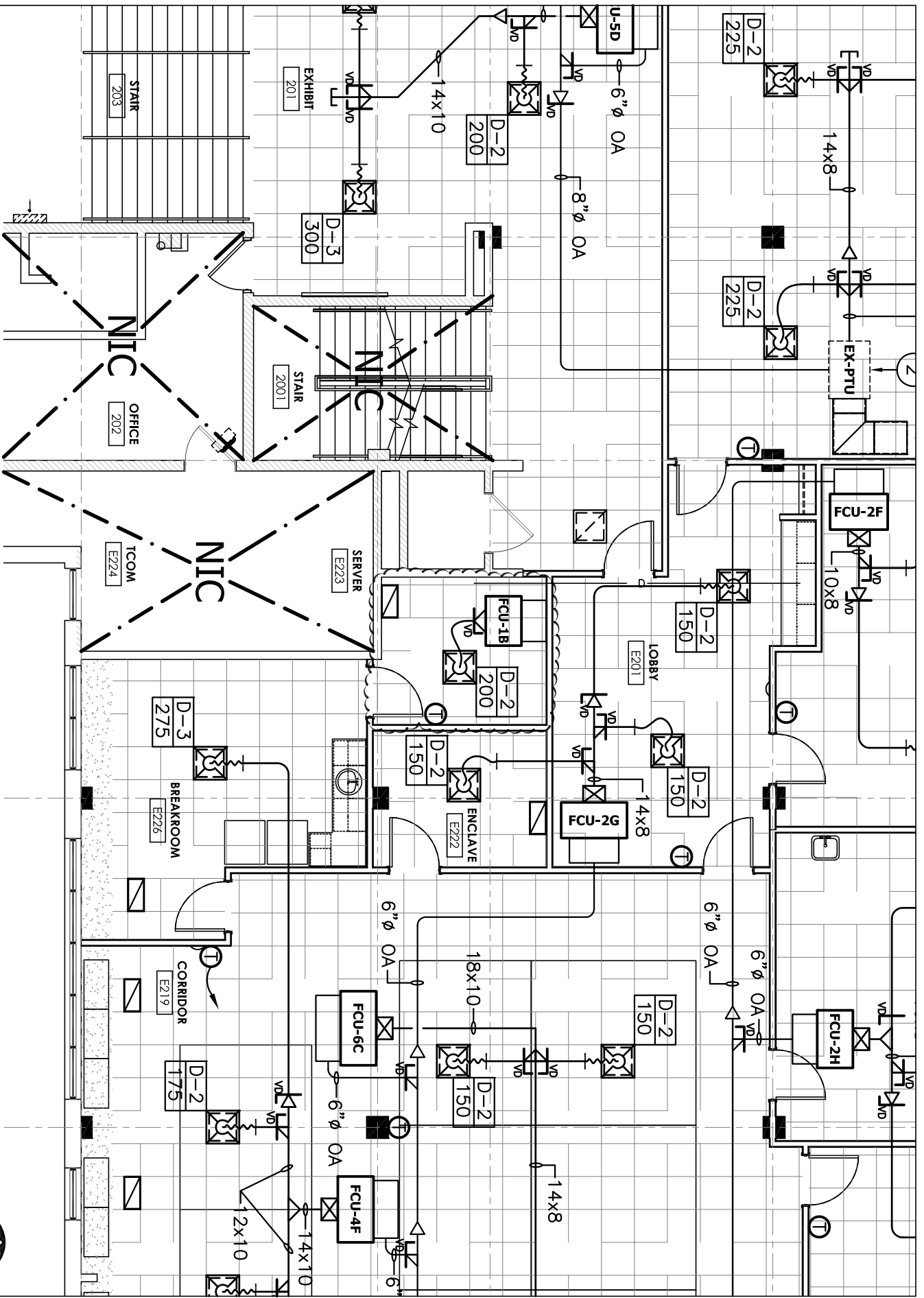
DATE: 06/24/2011

JOB NO. 0020417-80000

JOB NAME: DISCOVERY HALL TENANT IMPROVEMENTS

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APPENDUM 1



1

PARTIAL SECOND FLOOR MECHANICAL PLAN

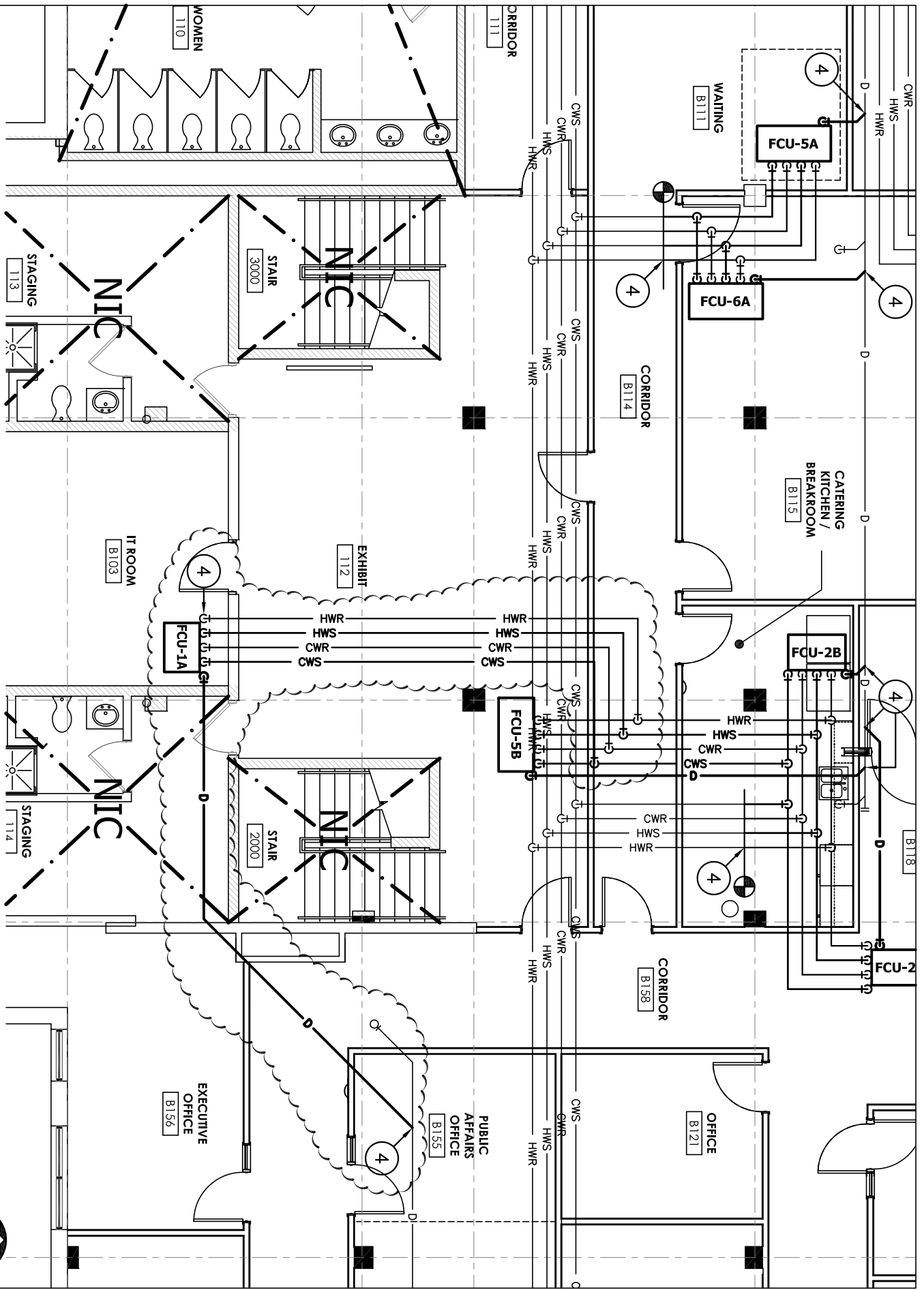
1/8" = 1'-0"



1

1/8" = 1'-0"

PARTIAL FIRST FLOOR MECHANICAL PIPING PLAN



Project	Partial First Floor Mechanical Piping Plan
Client	Indiana State Fair Commission
Location	1202 East 38th Street, Indianapolis, Indiana 46205
Scale	1/8" = 1'-0"
Sheet No.	M103c
Date	07/07/2011
Author	As Indicated
Checker	
Designer	
Engineer	
Project Manager	
Client Representative	

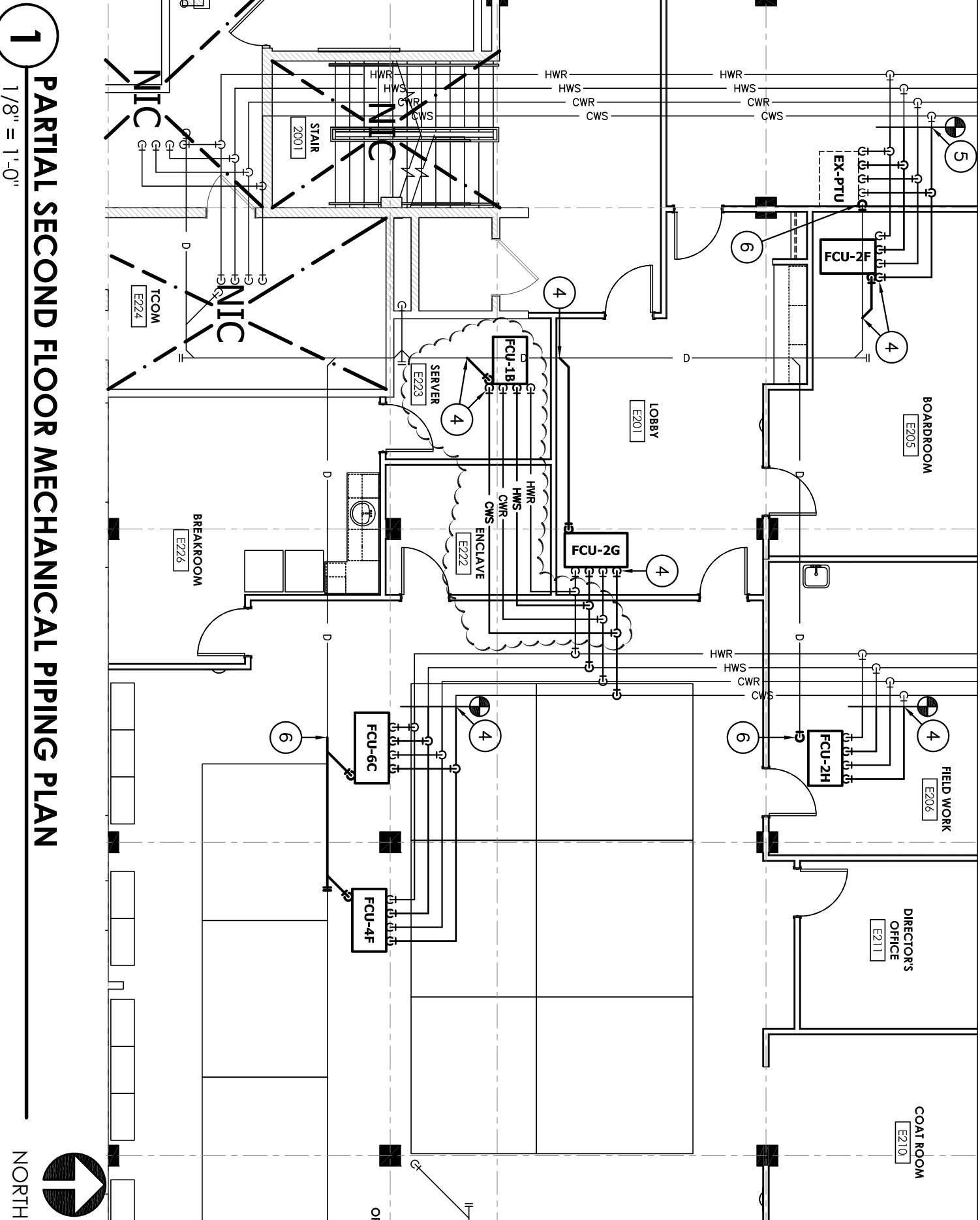
PARTIAL FIRST FLOOR MECHANICAL PIPING PLAN
 DISCOVERY HALL TENANT IMPROVEMENTS
 Indiana State Fair Commission
 1202 East 38th Street
 Indianapolis, Indiana 46205



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Revised	By	Date	Description
1	07/07/11	ADDENDUM NO. 1	



1

1/8" = 1'-0"

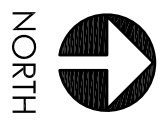
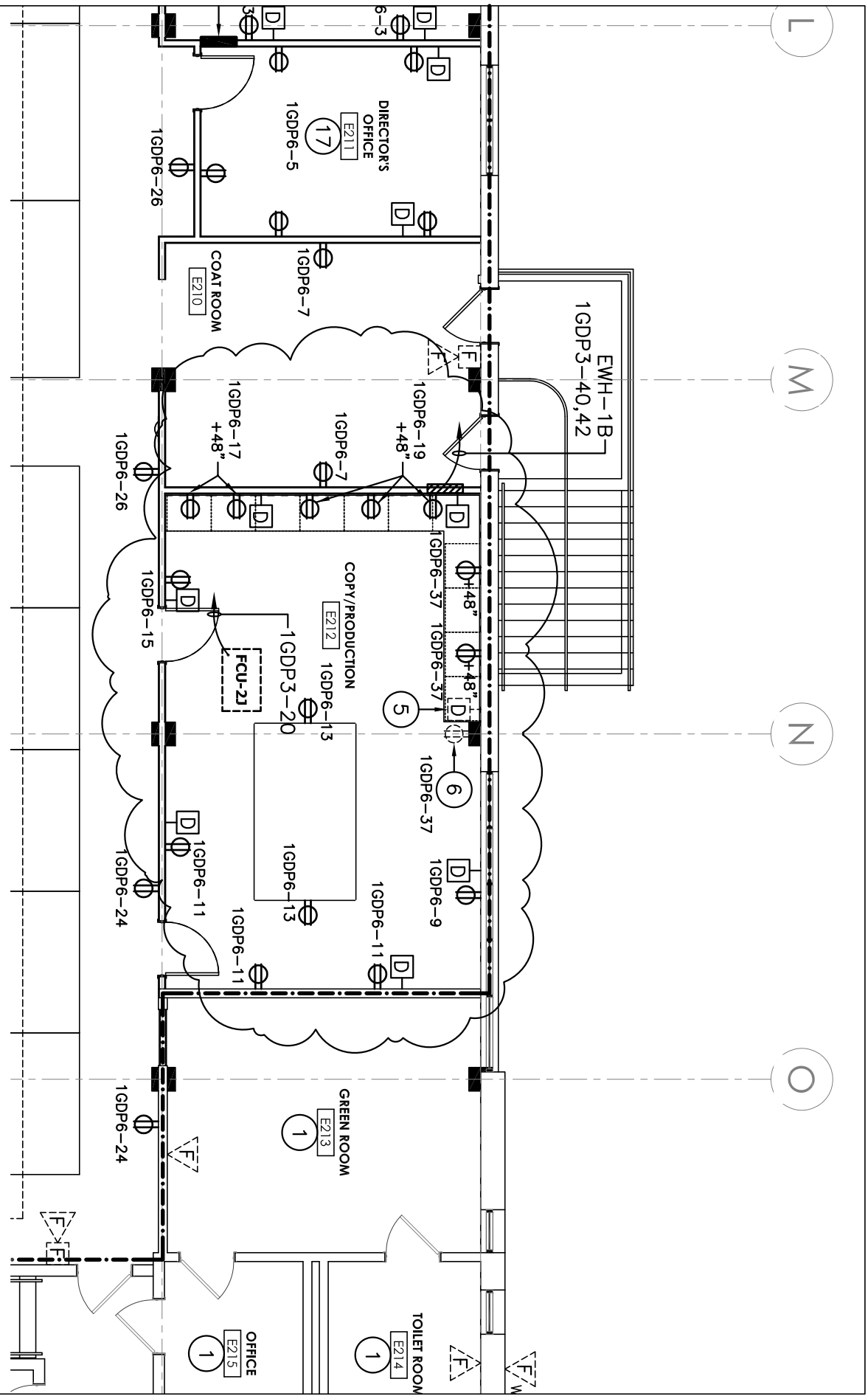
PARTIAL SECOND FLOOR MECHANICAL PIPING PLAN



1

PARTIAL SECOND FLOOR POWER PLAN

1/8" = 1'-0"





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Discovery Hall Phase Tenant Improvements

June 30, 2011

PROJECT NAME

DATE

PRE-BID MEETING MINUTES

020417-80000

CRIFE Project #

PREPARED BY Erin M. Rossier – Cripe Architects + Engineers

PRESENT: See attached "Sign-In Roster".

AGENDA

INTRODUCTION:

OWNER'S REPRESENTATIVE

Rich Trombley, Director of Buildings and Grounds

ARCHITECT'S REPRESENTATIVE

Mike Grubb, AIA Cripe A+E

Erin Rossier Cripe A+E

DESCRIPTION OF PROJECT:

BID DUE DATE:

Wednesday July 20, 2011 at 10:00 AM EST

Indiana State Fairgrounds
Communications Building – Contacts Office Room 2
1202 East 38th Street
Indianapolis, IN 46205

INSTRUCTIONS TO BIDDERS:

The project is classified as a public project and will require that common wage scale rates be included in the bid. Common Wage Scale is included in the specifications.

Questions and/or requests should be directed to Frank Hindes at Cripe Architects + Engineers at (317) 706-6324 or by email at fhindes@cripe.biz. All questions should be received in writing prior to July 13, 2011.

The project is sales tax exempt. Information will be provided to the successful bidder.

Bid Submission Requirements:

- o Security Deposit (Bid Bond – 5%)
- o Undertaking of Insurance
- o Bid Form provided and ISBA Form 96A
- o Non-Collusion Affidavit (Form 96A)
- o Supplement C – Proposed Subcontractors Form (Submit with bid at time of submission.)
- o ISFC Required Forms:
 - “Attachment C” MINORITY & WOMEN’S BUSINESS ENTERPRISES ITB SUBCONTRACTOR COMMITMENT FORM (Submit with bid at time of submission.)
 - “Attachment D” Indiana Economic Impact Form (Submit with bid at time of submission.)

Post-Bid Submission Requirements, within 24 hours:
Proposed Schedule of Values

SPECIAL NOTES:

Project Conditions:

- A Construction Staging area will be provided to the General Contractor, Coordinate with the Owners Representative. The site has easy access. Security will be the contractor's responsibility. Material storage within the building is acceptable.
- Follow all Indiana State Fairgrounds rules and regulations

Project Award:	July 21, 2011
Anticipated project start date:	August 22, 2011
Access to site/Mobilization:	Not before August 22, 2011
Required completion date:	December 1, 2011

It is the Contractor’s responsibility to provide all personnel, equipment, materials, etc. to meet the completion date.

Security/safety to be maintained at all times. Access to the interior of the existing buildings not included in the project is not permitted.

A site walk-through is available to familiarize all parties with the extent of the existing conditions following the pre-bid meeting. Follow up site visits can be arranged with Rich Trombley at 927-7571 (office) or 372-8506 (cell).

CUTTING AND PATCHING:

There is cutting and patching required. The contractor is responsible for cutting and patching associated with their work. Patching shall be performed by finish trades

experienced in the repairs of each particular finish. The contractor is responsible for cutting and patching, relocation of equipment of fixtures and other such issues required to perform this work.

CONSTRUCTION SCHEDULE:

A construction schedule is to be developed in cooperation with the successful prime contractor. It is the contractor's responsibility to provide all personnel, equipment, materials, etc. to meet the completion date. The need for additional work shifts required for this project shall be provided in the contractor's bid. No additional cost for overtime hours will be considered by the Owner after receipt of the bids. The contractor shall provide a full time superintendent dedicated solely to the project.

The project completion date is December 1, 2011.

SELECTIVE DEMOLITION:

The Owner may wish to salvage some items not identified as being given to the Owner. The contractor shall give the Owner the option of salvaging items prior to carrying out selective demolition.

A site walk-through was made available to familiarize all parties with the extent of the existing conditions.

QUESTIONS AND COMMENTS:

1. Sub-contractors and suppliers lists WILL BE required to be included with bid submission.
2. The project completion date is December 1, 2011.
3. Questions regarding bid documents shall be directed to Frank Hindes at 706-6324, fhindes@cripe.biz.
4. Discovery Hall will be occupied (on the 3rd floor) during the weekends. Security of all construction items is the responsibility of the Contractor.
5. Electronic copies (PDFs) are available at Repro Graphix in Indianapolis. Plans and specifications are available for a \$100 refundable deposit. This deposit does include an electronic copy AND a hard copy of the documents.

Cripe Architects + Engineers

Erin M. Rossier, Associate AIA, Associate IIDA

Distribution: Those present
All contractors of record for drawings

PRE-BID MEETING - SIGN-IN ROSTER

020420-80000

Indiana State Fair Commission
Discovery Hall Phase Tenant Improvements
(Job Name)

6/30/11
(Date)

PRINT YOUR NAME

PRINT YOUR CO. NAME, EMAIL

(GC)

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mpeterson@millereads.com

3. CHRIS NEAL

SUMMIT CONSTRUCTION Co.
CNEAL@SUMMITCONST.COM

4. ERIC GRUBB

ALT CONSTRUCTION ERIC@ALTCONSTRUCTION.COM

5. KEGAHN HOPWOOD

SUNCO CONSTRUCTION Co. Inc.
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6. Steve Hylton

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Steve@IULINE-PAINTING.COM

7. RON JONES

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8. Tracy Short

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9. BRIAN TURLEY

BDTURLEY@EDWARDSREGDON.COM

10. Jim Lewman

Mallernee Painting

d.mallernee@comcast.net

11. MIKE ABBEY

J&T SYSTEMS

MABBEY@JANDTSYSTEMS.COM

12. RICH TROMBUE

13. ERIC FREY

MATCON GENERAL CONTRACTORS, INC.

ericf@mattcongc.com

14. Erin Rossier

15. Mike Gross

16. MARK Mc DONALD

Phone 317-257-7506
FAX 317-254-1305

K.P. MEIRING COMPANY

MARKMcDONALD@K.P.MEIRING.COM

17. _____

18. _____

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20. _____