



State of Utah

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Department of Administrative Services

KIMBERLY K. HOOD  
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Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM #1

Date: June 8, 2009

To: Contractors

From: Tim Parkinson, Project Manager, DFCM

Reference: Miller Administration Building Remodel  
Weber State University, Ogden, Utah  
Project No. 09125810

Subject: **Addendum No. 1**

Pages	Addendum	1 page
	<u>Architects Addendum</u>	<u>22 pages</u>
	Total	23 pages

**Note:** *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

- 1.1 **SCHEDULE CHANGES** – There are no changes to the project schedule.
- 1.2 **GENERAL** – Axis Architects – Specifications and Drawings

**Utah!**  
Where ideas connect

## ADDENDUM - 1

Project: Weber State University, Miller Admin Remodel  
DFCM Project Number: 09125810  
Axis Project Number: 0903  
To: Tim Parkinson  
From: Axis Architects  
Date: June 8, 2009

### **Please make the following revisions to the construction documents:**

#### **Specifications:**

- 08 33 26 Remove Specification Section 08 33 26 – Overhead Coiling Grilles, from the Specifications and from the Specification Index.
- 08 33 23 Add the attached Specification Section 08 33 23 – Overhead Coiling Doors to the Specifications and to the Specification Index.
- 08 71 00 Replace the previously issued Specification Section 08 71 00 and associated Hardware Schedule with the Specification Section 08 71 00 and Hardware Schedule. Changes to this section are indicated in red text.
- 09 68 13 Remove Specification Section 09 68 13 – Carpet Tile, from the Specifications and from the Specification Index. Carpet Tile and Rubber Base will be provided and installed by the owner – Not In Contract.

#### **Drawings:**

- GI101 Remove the previously issued Drawing Sheet GI101 and replace it with the attached, modified Drawing Sheet GI101. This change addresses phasing, by switching the order of the two phases. This shall be coordinated by the General Contractor with Weber State University.

#### **Attachments:**

Specification Section 08 33 23  
Specification Section 08 71 00  
Drawing Sheet GI101  
Mechanical Addendum with Revised Drawing Sheet PE101

Note: This addendum shall be part of the construction documents. Items in this addendum apply to all drawing and specification sections whether referenced or not involving the portion of the work added, deleted, modified or otherwise addressed in the addendum. Acknowledge receipt of this addendum in the space provided on the bid form. Failure to do so may subject the bidder to disqualification.

End of Addendum

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section Includes:
  - 1. Counter doors.

**1.3 PERFORMANCE REQUIREMENTS**

- A. Delegated Design: Design overhead coiling doors, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Seismic Performance: Overhead coiling doors shall withstand the effects of earthquake motions determined according to SEI/ASCE 7.
  - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
  - 2. Seismic Component Importance Factor: 1.0.
- C. Operation Cycles: Provide overhead coiling door components and operators capable of operating for not less than number of cycles indicated for each door. One operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.

**1.4 SUBMITTALS**

- A. Product Data: For each type and size of overhead coiling door and accessory. Include the following:
  - 1. Construction details, material descriptions, dimensions of individual components, profiles for slats, and finishes.
  - 2. Rated capacities, operating characteristics, and furnished accessories.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data. Include plans, elevations, sections, details, and attachments to other work.

1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
- C. Samples for Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.
  1. Include similar Samples of accessories involving color selection.
- D. Delegated-Design Submittal: For overhead coiling doors indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
  1. Detail fabrication and assembly of seismic restraints.
  2. Summary of forces and loads on walls and jambs.
- E. Maintenance Data: For overhead coiling doors to include in maintenance manuals.

## 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for both installation and maintenance of units required for this Project.
- B. Source Limitations: Obtain overhead coiling doors from single source from single manufacturer.
- C. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

## PART 2 - PRODUCTS

### 2.1 DOOR CURTAIN MATERIALS AND CONSTRUCTION

- A. Door Curtains: Fabricate overhead coiling-door curtain of interlocking metal slats, designed to withstand wind loading indicated, in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated, and as follows:
  1. Stainless-Steel Door Curtain Slats: ASTM A 666, Type 304; sheet thickness of **0.025 inch (0.64 mm)** and as required to meet requirements.
- B. Endlocks for Counter Doors: Manufacturer's standard locks on not less than alternate curtain slats for curtain alignment and resistance against lateral movement.
- C. Bottom Bar for Counter Doors: Manufacturer's standard continuous channel or tubular shape, fabricated from manufacturer's standard hot-dip galvanized steel, stainless steel, or aluminum extrusions to match curtain slats and finish.
- D. Curtain Jamb Guides: Manufacturer's standard angles or channels and angles of same material and finish as curtain slats unless otherwise indicated, with sufficient depth and strength

to retain curtain, to allow curtain to operate smoothly, and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain.

## 2.2 HOOD

- A. General: Form sheet metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting that projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.
  - 1. Stainless Steel: **0.025-inch- (0.64-mm-)** thick stainless-steel sheet, Type 304, complying with ASTM A 666.

## 2.3 LOCKING DEVICES

- A. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded dead bolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.
  - 1. Lock Cylinders: Provide cylinders standard with manufacturer and keyed to building keying system.
  - 2. Keys: Provide Three for each cylinder.

## 2.4 COUNTERBALANCING MECHANISM

- A. General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.
- B. Counterbalance Barrel: Fabricate spring barrel of manufacturer's standard hot-formed, structural-quality, welded or seamless carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up curtain without distortion of slats and to limit barrel deflection to not more than **0.03 in./ft. (2.5 mm/m)** of span under full load.
- C. Spring Balance: One or more oil-tempered, heat-treated steel helical torsion springs. Size springs to counterbalance weight of curtain, with uniform adjustment accessible from outside barrel. Secure ends of springs to barrel and shaft with cast-steel barrel plugs.
- D. Torsion Rod for Counterbalance Shaft: Fabricate of manufacturer's standard cold-rolled steel, sized to hold fixed spring ends and carry torsional load.
- E. Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled steel plate.

## 2.5 MANUAL DOOR OPERATORS

- A. Crank Operator: Consisting of crank and crank gearbox, steel crank drive shaft, and gear-reduction unit, of type indicated. Size gears to require not more than **25 lbf (111 N)** force to turn

crank. Fabricate gearbox to be oil tight and to completely enclose operating mechanism. Provide manufacturer's standard crank-locking device.

## 2.6 DOOR ASSEMBLY

- A. Counter Door: Overhead coiling door formed with curtain of interlocking metal slats.
  - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Alpine Overhead Doors, Inc.
    - b. Cookson Company.
    - c. Cornell Iron Works, Inc.
    - d. McKeon Rolling Steel Door Company, Inc.
    - e. Overhead Door Corporation.
    - f. Raynor.
    - g. Southwestern Steel Rolling Door Co.
    - h. Wayne-Dalton Corp.
- B. Operation Cycles: Not less than 20,000.
- C. Door Curtain Material: Stainless steel.
- D. Door Curtain Slats: Flat profile slats of 1-1/2-inch (38-mm) center-to-center height.
- E. Curtain Jamb Guides: Stainless steel with exposed finish matching curtain slats. Provide continuous integral wear strips to prevent metal-to-metal contact and to minimize operational noise.
- F. Hood: Stainless steel.
  - 1. Shape: Round.
  - 2. Mounting: As shown on Drawings.
- G. Sill Configuration for Counter Door: No sill.
- H. Locking Devices: Equip door with locking device assembly.
  - 1. Locking Device Assembly: Single-jamb side locking bars, operable from inside and outside with cylinders.
- I. Manual Door Operator: Manufacturer's standard crank operator.
  - 1. Provide operator with manufacturer's standard removable operating arm.
- J. Door Finish:
  - 1. Stainless-Steel Finish: No. 4 (polished directional satin).

## 2.7 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## **2.8 STAINLESS-STEEL FINISHES**

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
  - 1. Run grain of directional finishes with long dimension of each piece.
  - 2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
  - 3. Directional Satin Finish: No. 4.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine substrates areas and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 INSTALLATION**

- A. Install overhead coiling doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Install overhead coiling doors, hoods, and operators at the mounting locations indicated for each door.
- C. Accessibility: Install overhead coiling doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.

### **3.3 ADJUSTING**

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- B. Lubricate bearings and sliding parts as recommended by manufacturer.

**3.4 DEMONSTRATION**

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling doors.

**END OF SECTION 08 33 23**

## SECTION 087100 - DOOR HARDWARE

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Commercial door hardware for the following:
    - a. Swinging doors.
    - b. Other doors to the extent indicated.
- B. Related Sections include the following:
  - 1. Division 08 Section "Hollow Metal Doors and Frames"
  - 2. Division 08 Section "Flush Wood Doors"

#### 1.3 SUBMITTALS

- A. Product Data: Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples for Verification: For exposed door hardware of each type, in specified finish, full size. Tag with full description for coordination with the door hardware sets. Submit Samples before, or concurrent with, submission of the final door hardware sets, if requested.
  - 1. Samples will be returned to Contractor. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.
- C. Qualification Data: For Installer.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for locks, latches, and closers as requested.
- E. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.
- F. Warranty: Special warranty specified in this Section.

- G. Door Hardware Sets: Prepared by or under the supervision of Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
  2. Content: Include the following information:
    - a. Identification number, location, hand, fire rating, and material of each door and frame.
    - b. Type, style, function, size, quantity, and finish of each door hardware item.
    - c. Complete designations of every item required for each door or opening including name and manufacturer.
    - d. Fastenings and other pertinent information.
    - e. Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    - f. Explanation of abbreviations, symbols, and codes contained in schedule.
    - g. Mounting locations for door hardware.
    - h. Door and frame sizes and materials.
    - i. Description of each electrified door hardware function, including location, sequence of operation, and interface with other building control systems.
      - 1) Sequence of Operation: Include description of component functions that occur in the following situations: authorized person wants to enter; authorized person wants to exit; unauthorized person wants to enter; unauthorized person wants to exit.
    - j. List of related door devices specified in other Sections for each door and frame.
  3. Submittal Sequence: Submit the final door hardware sets at earliest possible date, particularly where approval of the door hardware sets must precede fabrication of other work that is critical in Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the door hardware sets.
- H. Keying Schedule: Prepared by or under the supervision of Architectural Hardware Consultant, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by lock manufacturer.
1. Installer's responsibilities include supplying and installing door hardware and providing a qualified Architectural Hardware Consultant available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
  2. Installer shall have warehousing facilities in Project's vicinity.
  3. Scheduling Responsibility: Preparation of door hardware and keying schedules.

4. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
  - B. Architectural Hardware Consultant Qualifications: A person who is currently certified by DHI as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
  - C. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
  - D. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252 and UBC Standard 7-2.
    1. Test Pressure: After 5 minutes into the test, neutral pressure level in furnace shall be established at 40 inches (1016 mm) or less above the sill.
  - E. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." In addition to Owner, Construction Manager, Contractor, and Architect, conference participants shall also include Installer's Architectural Hardware Consultant and Owner's Security Consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
    1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    2. Preliminary key system schematic diagram.
    3. Requirements for key control system.
    4. Address for delivery of keys.
  - F. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
  - B. Tag each item or package separately with identification related to the final door hardware sets, and include basic installation instructions, templates, and necessary fasteners with each item or package.
- 1.6 COORDINATION
- A. Coordinate layout and installation of recessed hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.

- B. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Existing Openings: Where new hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide for proper operation.

## 1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including excessive deflection, cracking, or breakage.
    - b. Faulty operation of operators and door hardware.
    - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
  - 2. Warranty Period: Three (3) years from date of Substantial Completion, except as follows:
    - a. Manual Closers: Ten (10) years from date of Substantial Completion.

## 1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.
- B. Maintenance Service: Beginning at Substantial Completion, provide six (6) months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door hardware operation. Provide parts and supplies same as those used in the manufacture and installation of original products.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Products:

- a. Finish: Shall be US26D, unless otherwise noted.
- b. Manufacture Standard:
  - 1) Butts: Hager, McKinney, Stanley, Ives\*
  - 2) Locksets: Schlage ND, Corbin Russwin CL\*
  - 3) Cylinders: Key-In-Lever, ASSA provided by owner\*
  - 4) Closers: Sargent 281, LCN 4041\*
  - 5) Trim: BBW, Rockwood, Hager, Ives\*

B. Substitution requests will be made in accordance with Division 01 requirements.

2.2 SCHEDULED HARDWARE

A. Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in the "Hardware Schedule" at the end of this Section. Products are identified by using hardware designation numbers of the following:

- 1. Manufacturer's Product Designations: The product designation and name of one manufacturer are listed for each hardware type required for the purpose of establishing minimum requirements. Provide either the product designated or, where more than one manufacturer is specified under the Article "Manufacturers" in Part 2 for each hardware type, the comparable product of one of the other manufacturers that complies with requirements.
- 2. ANSI/BHMA designations used elsewhere in this Section or in schedules to describe hardware items or to define quality or function are derived from the following standards. Provide products complying with these standards and requirements specified elsewhere in this Section.
  - a. Butts and Hinges: ANSI A156.1.
  - b. Bored and Preassembled Locks and Latches: ANSI/BHMA A156.2.
  - c. Exit Devices: ANSI A156.3.
  - d. Door Controls - Closers: ANSI A156.4. 180 degree swing only!
  - e. Auxiliary Locks and Associated Products: ANSI/BHMA A156.5.
  - f. Architectural Door Trim: ANSI A156.6.
  - g. Template Hinge Dimensions: ANSI A156.7.
  - h. Door Controls - Overhead Holders: ANSI A156.8.
  - i. Mortise Locks and Latches: ANSI A156.13.
  - j. Closer Holder Release Devices: ANSI A156.15.
  - k. Auxiliary Hardware: ANSI A156.16.
  - l. Self-Closing Hinges and Pivots: ANSI A156.17.
  - m. Materials and Finishes: ANSI A156.18.

2.3 MATERIALS AND FABRICATION

A. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser

(commercially recognized) quality than specified for applicable hardware units by applicable ANSI/BHMA A156 series standards for each type of hardware item and with ANSI/BHMA A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.

- B. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- C. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted finish.
- D. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless their use is the only means of reinforcing the work adequately to fasten the hardware securely. Where thru-bolts are used as a means of reinforcing the work, provide sleeves for each thru-bolt or use sex screw fasteners.

#### 2.4 HINGES, GENERAL

- A. Quantity: Provide the following, unless otherwise indicated:
  - 1. Two Hinges: For doors with heights up to 60 inches.
  - 2. Three Hinges: For doors with heights 61 to 90 inches.
- B. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.
- C. Hinge Weight: As indicated in hardware sets.
- D. Hinge Base Metal: Unless otherwise indicated, provide the following:
  - 1. Exterior Hinges: Stainless steel with stainless-steel pin.
  - 2. Interior Hinges: Steel with steel pin.
  - 3. Hinges for Fire-Rated Assemblies: Steel with steel pin.
- E. Hinge Options: Where indicated in door hardware sets or on Drawings:
  - 1. Safety Stud: Designed for stud in one leaf to engage hole in opposing leaf.
  - 2. Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for outswinging doors.
  - 3. Corners: Square.
- F. Fasteners: Comply with the following:
  - 1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
  - 2. Wood Screws: For wood doors and frames.
  - 3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.

## 2.5 LOCKS, LATCHES, AND BOLTS

- A. Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt, with curved lip extended to protect frame, finished to match hardware set, unless otherwise indicated.
- B. Lock Throw: Provide 5/8-inch (16-mm) minimum throw of latch on pairs of doors. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
- C. Flush Bolt Heads: Minimum of 1/2-inch- (13-mm-) diameter rods of brass, bronze, or stainless steel with minimum 12-inch- (300-mm-) long rod for doors up to 84 inches (2100 mm) in height. Provide longer rods as necessary for doors exceeding 84 inches (2100 mm) in height.
- D. Cylindrical Locks - ANSI A156.2 Series 4000, Grade 1 Strength and Operational requirements. Meets A117.1 Accessibility Codes. Latch bolts shall be steel with minimum 1/2" throw, deadlocking on keyed and exterior functions. 3/4" throw anti-friction latchbolt on pairs of fire doors.

## 2.6 KEYING REQUIREMENTS

- A. General: Supplier will meet with Owner to finalize keying requirements and obtain final instructions in writing.
- B. Furnish temporary keyed cores for the construction period, and remove these when directed. The construction cores remain property of the supplier and shall be returned to the supplier when they are removed. Contractor shall install the permanent cores in the presence of the owner's representative.
- C. Cylinders/Cores: Match existing Corbin-Russwin N-2-6, 0-bitted.
- D. Permanent Keys: Secured shipment direct from point of origination to Owner's Representative
  - 1. For estimate: 2 keys per change combination, 5 master keys per group, 5 grand-master keys, 3 control keys.

## 2.7 PUSH/PULL UNITS

- A. Exposed Fasteners: Provide manufacturer's standard exposed fasteners for installation, thru-bolted.

## 2.8 CLOSERS

- A. Accessibility Requirements: Where handles, pulls, latches, locks and other operating devices are indicated to comply with accessibility requirements, comply with the U.S. Architectural Transportations Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."
  - 1. Comply with the following maximum opening-force requirements:
    - a. Interior, Non-fire-rated Hinged Doors: 5 lbf applied perpendicular to door.

- b. Fire Doors: Minimum opening force allowable by Authorities Having Jurisdiction (AHJ).
- B. Door Closers for Means of Egress Doors: Comply with NFPA 101. Door closers shall not require more than 30 lbf to set door in motion and not more than 15lbf to open door to minimum required width.
- C. Cylinder: Shall be of high strength cast iron construction. All door exterior closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified independent testing laboratory. A written certification showing successful completion of a minimum of 10,000,000 cycles for all exterior door closers must be provided. Cylinder shall have been manufactured and in the marketplace for a minimum of 10 years
- D. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory sized closers, adjustable to meet field conditions and requirements for opening force.
- E. Surface Closers: BHMA A156.4 Grade 1. Provide type of arm required for closer to be located on non-public side of door, unless otherwise indicated.
  - 1. Full rack-and-pinion type cylinder with removable non-ferrous cover and cast iron body. Double heat-treated pinion shaft, single piece forged piston, chrome silicon steel spring.
  - 2. ISO 2000 certified. Units stamped with date-of-manufacture code.
  - 3. Thru-bolts at wood doors unless doors are provided with closer blocking. Non-sized, non-handed, and adjustable. Place closer inside building, stairs, and rooms.
  - 4. Plates, brackets and special templating when needed for interface with particular header, door and wall conditions and neighboring hardware.
  - 5. Opening pressure: Exterior doors 8.5 lb., interior doors 5 lb., labeled fire doors 15 lb.
  - 6. Separate adjusting valves for closing speed, latching speed and backcheck, fourth valve for delayed action where scheduled.
  - 7. Exterior doors do not require seasonal adjustments in temperatures from 120 degrees F to -30 degrees F, furnish data on request.
  - 8. Non-flaming fluid will not fuel door or floor covering fires.

## 2.9 TRIM AND STOPS

- A. Kick plates, mop plates, and armor plates, shall be .050 gauge with 32D finish. Kick plates to be 10" high, mop plates to be 5" high. All plates shall be two (2) inches less full width of door.
- B. Push plates, pull plates, door pulls, and miscellaneous door trim shall be shown in the hardware schedule.
- C. Doorstops shall be furnished for all doors to prevent damage to doors or hardware from striking adjacent walls or fixtures. Wall stops are preferred. Floor stops are used only where noted in hardware schedule. Where conditions prohibit the use wall type stops, furnish overhead stops either surface mounted or concealed as noted in hardware sets.

## 2.10 WEATHERSTRIPPING AND SEALS

- A. General: Provide continuous weatherstripping on exterior doors and smoke, light, or sound seals on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

## 2.11 THRESHOLDS

- A. General: Except as otherwise indicated, provide standard metal threshold unit of type, size, and profile as shown or scheduled.

## 2.12 HARDWARE FINISHES

- A. Match items to the manufacturer's standard color and texture finish for the latch and locksets (or push-pull units if no latch or lock sets).
- B. Provide finishes that match those established by BHMA or, if none established, match the Architect's sample.
- C. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.
- D. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18, "Materials and Finishes," including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Steel Doors and Frames: Comply with DHI A115 Series.
  - 1. Surface-Applied Door Hardware: Drill and tap doors and frames according to ANSI A250.6.

- B. Wood Doors: Comply with DHI A115-W Series.

### 3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated, as follows, unless otherwise indicated or required to comply with governing regulations.
  - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
  - 2. Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
  - 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 09 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
  - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
  - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

### 3.4 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
  - 1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
  - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
  - 3. Door Closers: Unless otherwise required by authorities having jurisdiction, adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.
- B. Occupancy Adjustment: Approximately six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust, including adjusting operating forces, each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.

### 3.5 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

### 3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

### 3.7 DOOR HARDWARE SETS

#### HW SET: 01

- 1 EXISTING HARDWARE TO REMAIN

#### HW SET: 02

4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	CL3351 NZD (2-3/4 LATCH, ANSI STRIKE)	626	C-R
<u>1</u>	<u>EA</u>	<u>K-I-L CYLINDER</u>	<u>KEY IN LEVER CYLINDER N-2-6 0 BITTED</u>	<u>626</u>	<u>C-R</u>
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

#### HW SET: 03

4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	CL3351 NZD (2-3/4 LATCH, ANSI STRIKE)	626	C-R
<u>1</u>	<u>EA</u>	<u>K-I-L CYLINDER</u>	<u>KEY IN LEVER CYLINDER N-2-6 0 BITTED</u>	<u>626</u>	<u>C-R</u>
1	EA	SURFACE CLOSER	4041 RW/PA X TB X MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

#### HW SET: 04

4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	CL3310 NZD (2-3/4 LATCH, ANSI STRIKE)	626	C-R
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 05

4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY SET	CL3320 NZD (2-3/4 LATCH, ANSI STRIKE)	626	C-R
1	EA	SURFACE CLOSER	4041 RW/PA X TB X MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 05.1

4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
<u>1</u>	<u>EA</u>	<u>MORTISE CYLINDER</u>	<u>MORTISE CYLINDER N-2-6 0 BITTED</u>	<u>626</u>	<u>C-R</u>
1	EA	ELECTRIC STRIKE	6210 FS 24VDC	630	VON
1	EA	PRIVACY SET	L9444 06A X L583-375	626	SCH
1	EA	AUTO-EQUALIZER	4642 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE
2	EA	ACTUATOR, WALL MOUNT	8310-853		LCN

USER PUSHES ACTUATOR TO ENTER RESTROOM, ELECTRIC STRIKE KEEPER RELEASES AND AUTO OPERATOR OPENS DOOR. USER PROJECTS LATCHBOLT FOR PRIVACY. IF ANOTHER USER PUSHES ACTUATOR, ELECTRIC STRIKE WILL RELEASE, BUT DEADBOLT WILL PREVENT THE DOOR FROM OPENING TO PRESERVE OCCUPANT PRIVACY. USER DEPRESSES LEVER TO RETRACT DEADBOLT AND EXIT RESTROOM. ELECTRIC STRIKE IS POWERED BY AUTO OPERATOR.

# CODE ANALYSIS

## APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	
International Fuel Gas Code	2006	ADA Accessibility Guide lines	ICC/ANSI 117.1 2003
International Plumbing Code	2006		
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: EXISTING BUILDING: B III B  
 Change in Use: Yes  No  Mixed Occupancy: Yes  No   
 Special Use and Occupancy (e.g. High Rise, Covered Mall):

B. Seismic Design Category: N/A Design Wind Speed: N/A mph

C. Type of Construction (circle one):  
 I A I B II A II B III A III B IV HT V A V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
 North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: 0 Non separated Uses: 0

F. Sprinklers:  
 Required: NO Provided: NO  
 Type of Sprinkler System (IBC 903.3.1) N/A

G. Number of Stories: 3 Building Height: 41'

H. Actual Area per Floor (square feet): N/A

I. Tabular Area: (table 503): N/A

J. Area Modifications:  
 a)  $A_a = \left\{ A_1 + \left[ A_1 \times I_f \right] + \left[ A_1 \times I_s \right] \right\}$   $I_f = \left[ F/P - 0.25 \right] W / 30$

b) Sum of the Ratio Calculations for Mixed Occupancies:  
 $\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

c) Total Allowable Area for:  
 1) One Story: 0  
 2) Two Story:  $A_a(2)$  0  
 3) Three Story:  $A_a(3)$  0  
 d) Unlimited Area Building: Yes  No  Code Section: 0

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	2	EXISTING	Floors - Ceiling Floors	0	EXISTING
Interior Bearing Walls	0	EXISTING	Roofs - Ceiling Roofs	0	EXISTING
Exterior Non-Bearing Walls	0	EXISTING	Exterior Doors and Windows	0	EXISTING
Structural Frame	0	EXISTING	Shaft Enclosures	1 Hr.	EXISTING
Partitions - Permanent	N/A		Fire Walls	N/A	
Fire Barriers	N/A		Fire Partitions	N/A	
			Smoke Partitions	N/A	

L. Design Occupant Load: N/A - NO OCCUPANTS ADDED.  
 Exit Width Required: 0 Exit Width Provided: 0

M. Minimum Number of Required Plumbing Facilities:  
 a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1  
 b) Urinals - Required (m) 0 (f) 0 Provided (m) 1 (f) 0  
 c) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1  
 d) Bath Tubs or Showers: 0  
 e) Drinking Fountains: 1 Service Sinks: N/A - NO CHANGE

FOOTNOTES:  
 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through IV - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.  
 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:  
 a) High Rise Requirements.  
 b) Atriums.  
 c) Performance Based Criteria.  
 d) Means or Egress Analysis.  
 e) Fire Assembly Locator Sheet.  
 f) Exterior and Interior Accessibility Route.  
 g) Fire Stopping, Including Tested Design Number.

## PROJECT TEAM

**OWNER:**  
 WEBER STATE UNIVERSITY  
 Dave Garff  
 Engineer, Project manager  
 Facilities Management  
 phone (801)626-6676  
 cell (801)860-3357  
 fax (801)626-7488

**USER:**  
 WEBER STATE UNIVERSITY  
 Administration

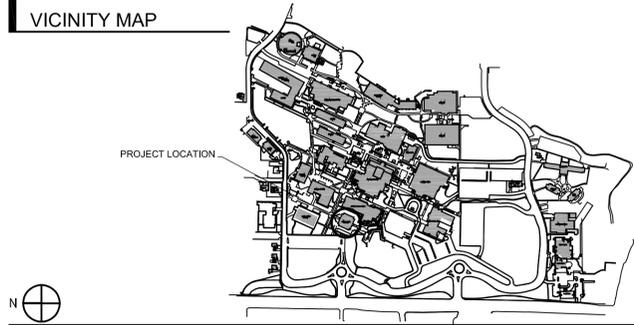
**ARCHITECT:**  
 AXIS ARCHITECTS  
 Pierre O. Langue AIA  
 352 S. Denver St.  
 Salt Lake City, UT 84111  
 phone (801)355-3003  
 fax (801)355-0113

**STRUCTURAL:**  
 N/A

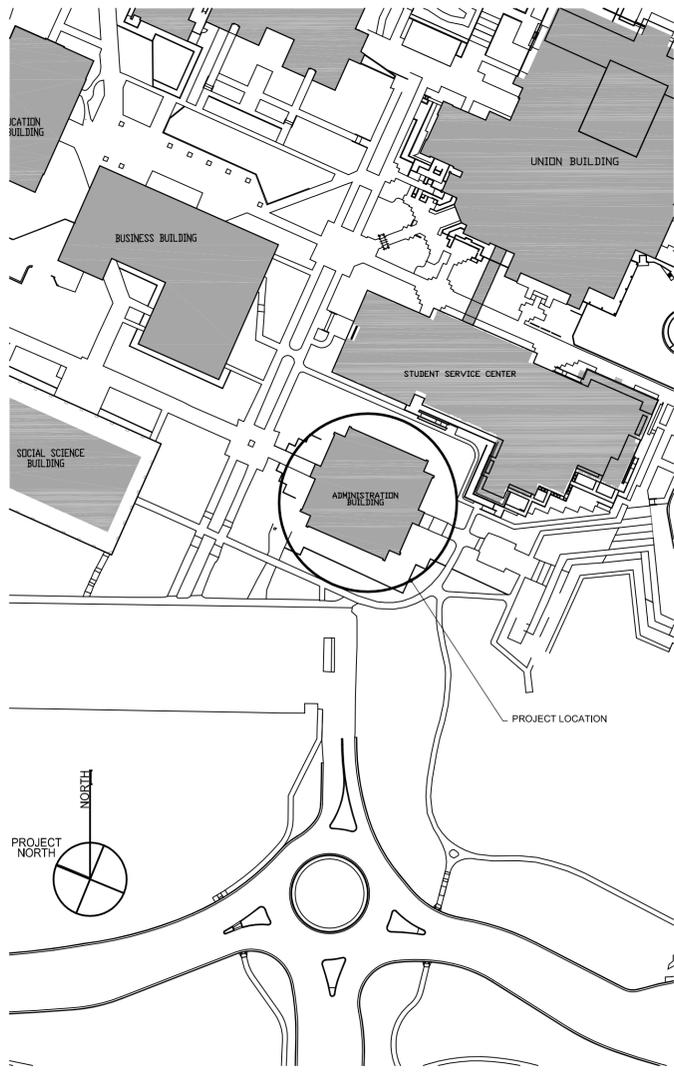
**MECHANICAL:**  
 WHW Engineering  
 Paul Wadsworth  
 Salt Lake City, Utah  
 phone (801) 466-4021  
 fax (801) 466-8536

**ELECTRICAL:**  
 ECE  
 Akbar Matinkhah  
 939 S. West Temple  
 Salt Lake City, Utah 84101  
 phone (801) 521-8007  
 fax (801) 521-8057

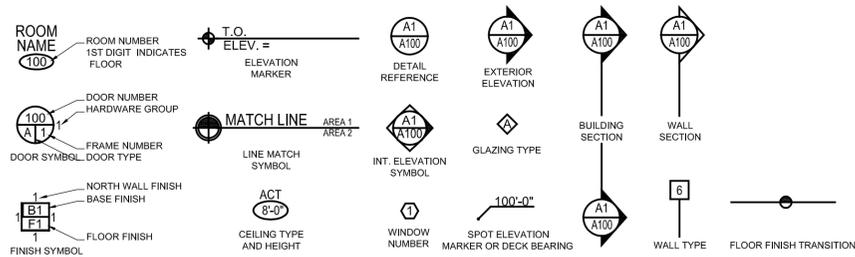
## VICINITY MAP



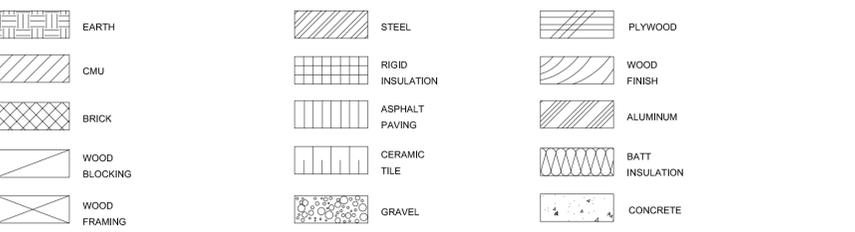
## OVERALL SITE PLAN



## SYMBOL LEGEND



## GRAPHIC SYMBOLS



## DRAWING INDEX

**GENERAL**  
 GI101 GENERAL INFORMATION  
 GI102 CLEARANCES ACCESSIBILITY INFORMATION

**ARCHITECTURAL**  
 AD101 FIRST FLOOR DEMOLITION PLAN  
 AE101 FIRST FLOOR PLAN  
 AE111 REFLECTED CEILING PLAN  
 AE501 ENLARGED PLAN AND INTERIOR ELEVATIONS

**MECHANICAL**  
 MG001 MECHANICAL LEGEND AND GENERAL NOTES  
 MD101 MECHANICAL DEMOLITION FLOOR PLAN  
 ME101 MECHANICAL FLOOR PLAN  
 ME501 MECHANICAL DETAILS  
 ME601 MECHANICAL SCHEDULES

**PLUMBING**  
 P001 PLUMBING LEGEND AND GENERAL NOTES  
 PE101 PLUMBING PLANS & SCHEDULES

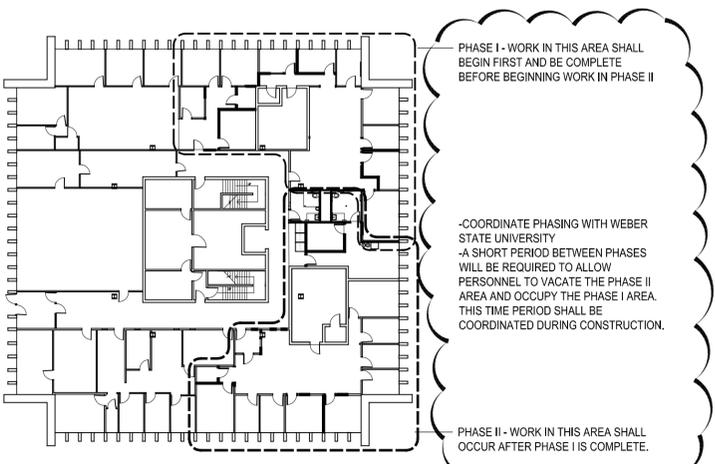
**ELECTRICAL**  
 EE001 GENERAL NOTES, SCHEDULES & DETAILS  
 EE002 DETAILS  
 ED101 DEMOLITION FLOOR PLAN - ELECTRICAL  
 EP101 FLOOR PLAN - ELECTRICAL  
 EL101 FLOOR PLAN - LIGHTING

NOTE: THE SHEETS LISTED ABOVE REPRESENT A FULL SET OF CONSTRUCTION DOCUMENTS AND INCLUDE A DETAIL BOOK AND A PROJECT MANUAL AND SHALL NOT BE SEPARATED. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR REVIEWING ALL THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO DRAWINGS, DETAILS, PROJECT MANUAL, SPECIFICATIONS AND ANY AND ALL ADDENDA ISSUED.

# WEBER STATE UNIVERSITY MILLER ADMINISTRATION REMODEL FIRST FLOOR

# DFCM # 09125810 CONSTRUCTION DOCUMENTS May 18, 2009

## PHASING



## DEFERRED SUBMITTALS

FIRE ALARM:  
 THE DEFERRED SUBMITTAL FOR FIRE ALARMS IS ANTICIPATED TO BE SUBMITTED FOR REVIEW TO THE BUILDING OFFICIAL AND FIRE MARSHALL ON OR AROUND JUNE 10, 2009.

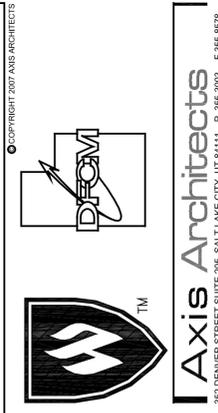
**WEBER STATE UNIVERSITY**  
**MILLER ADMIN. REMODEL**  
 OGDEN, UT 84408  
 Schematic Design

REVISION NUMBER AND DATE:  
 ADDENDUM #1, JUNE 1, 2009

AXIS JOB #: 0903  
 OWNER JOB #: 09125810  
 DATE: MAY 14, 2009  
 DRAWN BY: BV  
 CHECKED BY: PL

GENERAL INFORMATION

# GI101



# ADDENDUM

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Project Name: Weber State Miller Admin

Addendum No.: 1

WHW Project # 09009

Date: June 01, 2009

From: WHW Engineering Inc  
8619 Sandy Parkway Suite 101  
Sandy, Utah 84070  
Phone (801) 466-4021 Fax (801) 466-8536

To: Boyd Viehweg – Axis Architects

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This Addendum forms and becomes a part of the Contract Documents and modifies the original Bidding Documents dated May 2009 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 1 pages.

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## **I - CHANGES/CLARIFICATIONS TO SPECIFICATIONS: N/A**

## **II - CHANGES/CLARIFICATIONS TO DRAWINGS:**

- Item II-1.** Changed note 4 on PE101 to include removal of fixtures for renovations and then to be re-installed. See revised sheet PE101.

## PRIOR APPROVALS

THE FOLLOWING ITEMS, AS SUBMITTED, ARE CONSIDERED, IN GENERAL AND IN NAME ONLY, AS EQUAL TO THOSE ITEMS SPECIFIED. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OR SUPPLIER OF THE RESPONSIBILITY OF CONFORMING TO THE DRAWINGS AND SPECIFICATIONS, NOR DOES IT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS FOR COORDINATION WITH OTHER TRADES. ALL DIMENSIONS SHALL BE CONFIRMED AND CORRELATED AT THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND THE SUITABILITY OF "EQUAL" PRODUCTS FOR THE SPECIFIED APPLICATION.

### Description

### Manufacturer

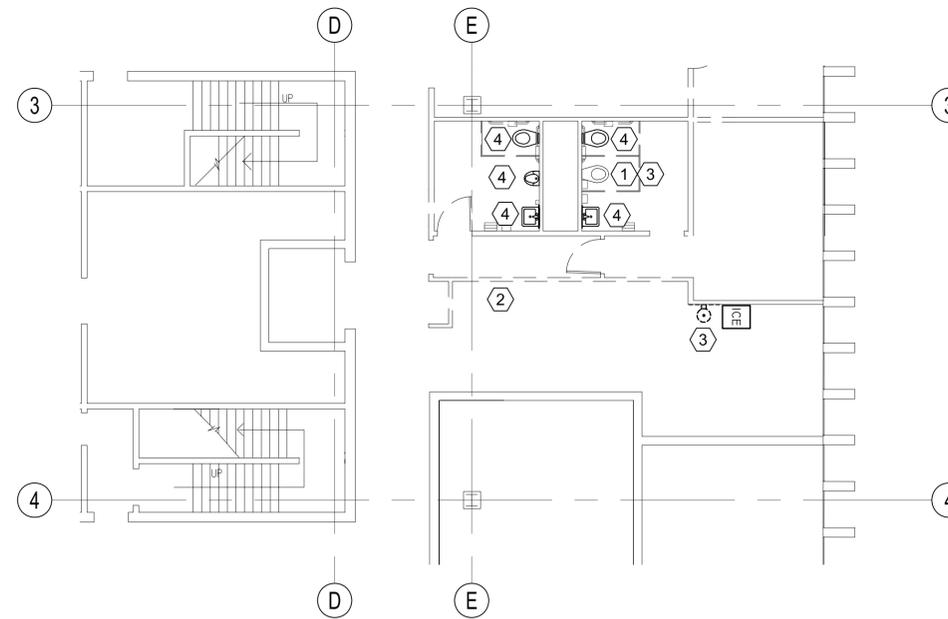
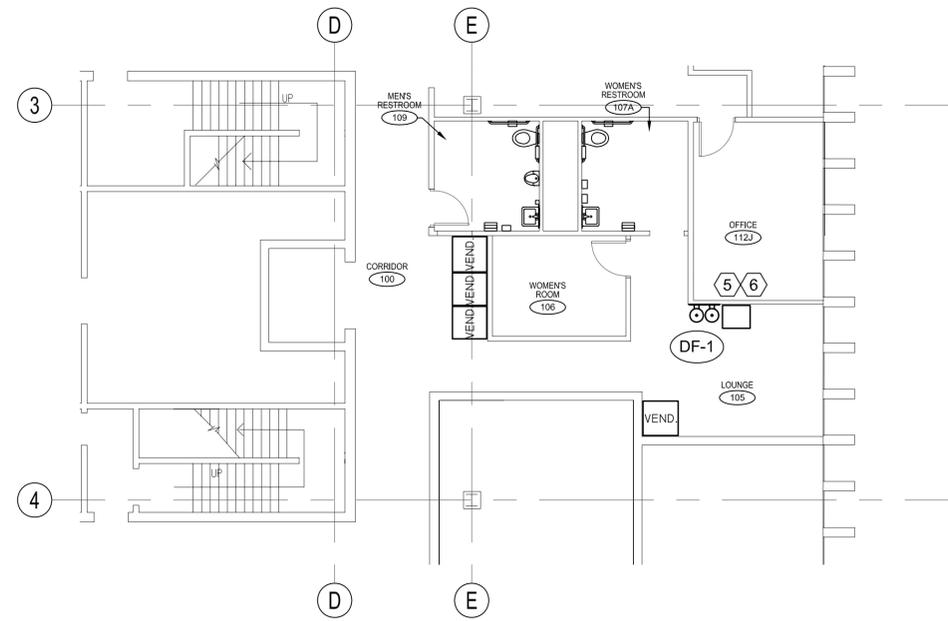
Volume Dampers

Greenheck

High Efficiency Takeoffs

Clifco

PLUMBING FIXTURE SCHEDULE							REMARKS
SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1-1/2"	1/2"	-	SEMI-RECESSED, NON-ELECTRIC, BI-LEVEL DRINKING FOUNTAIN. MODEL NO. ELKAY EDFPBM117C



- SHEET NOTES:**
- REMOVE EXISTING PIPING BACK TO PLUMBING CHASE AND CAP FOR THIS FIXTURE.
  - REMOVE EXISTING PIPING FROM ABOVE VENDING AREA IN THIS APPROXIMATE LOCATION AND CAP ABOVE CEILING. FIELD VERIFY.
  - REMOVE EXISTING FIXTURE.
  - EXISTING FIXTURE TO REMAIN. FIXTURE TO BE REMOVED FOR BATHROOM RENOVATIONS AND THEN REINSTALLED.
  - RELOCATE EXISTING FILTER AND PIPING SYSTEM TO NEW CABINET OVER ICE MAKER. CONCEAL ALL PIPING IN THE WALL. COORDINATE WITH ARCHITECTURAL PLANS.
  - EXISTING ICE MAKER TO REMAIN.



Axis Architects  
352 DENVER STREET SUITE 205, SALT LAKE CITY, UT 84111 P. 355-0003 F. 355-8578



WHW ENGINEERING INC.  
PROFESSIONAL TECHNICAL ENGINEERING  
8619 Sandy Parkway Suite 101  
SANDY, UT 84070  
(801)965-9021 FAX (801)965-9036  
EMAIL: eoa@whw-engineering.com

WEBER STATE UNIVERSITY  
MILLER ADMIN. REMODEL  
OGDEN, UT 84408  
Schematic Design

REVISION NUMBER AND DATE:

ADDENDUM 1

AXIS JOB #: 0903  
OWNER JOB #: 0903  
DATE: MAY 2009  
DRAWN BY: STAFF  
CHECKED BY: WP

PLUMBING PLANS & SCHEDULES

PE101