



## **ADDENDUM #3**

**July 9, 2014**

Re: Harrisburg Area Community College  
Lancaster Welcome Center Renovations  
Solicitation # RFB15-01

From: Eastern PCM, LLC  
Construction Manager – HACC  
645 N. 12<sup>th</sup> Street, Suite 200  
Lemoyne, PA 17043

To: All Planholders

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This Addendum is hereby made part of the Plans and Project Manual dated June 14, 2014 for the above referenced project. The provisions of this Addendum are intended to supplement the provisions of the Plans and Project Manual and/or supersede them where contradictory thereto.

This Addendum contains changes to the requirements of the Plans and Project Manual. Such changes shall be incorporated into the Plans and Project Manual and shall apply to work with the same meaning and force as if they had been included in the original Plans and Project Manual. Where this Addendum modifies a portion of a paragraph or phrase of the Project Manual, the remaining unmodified portion of the paragraph or phrase shall remain in force.

The conditions and terms of the Plans and Project Manual shall govern work described in this Addendum. Whenever the conditions of work, or the quality or quantity of materials or workmanship are not fully described in this Addendum, the conditions of work etc. included in the Plans and Project Manual for similar items of work shall apply to the work described in this Addendum. If no similar items of work are included in the Plans and Project Manual, the quality of material and workmanship shall be subject to the written acceptance of the Architect.

### **3.1 GENERAL CLARIFICATIONS**

Addendum # 2 dated, July 8, 2014 was issued solely to extend the bid date from July 10 to July 15, 2014. Changes noted on the Drawings as '△<sub>2</sub>' are incorporated in this Addendum # 3, dated July 9, 2014.

### **3.2 CHANGES TO THE SPECIFICATIONS**

A. 00010 Table of Contents

1. **ADD** Section 0558313 – COLUMN COVERS
2. **DELETE** Section 083323 – OVERHEAD COILING DOORS

3. **ADD** Section 083326 – OVERHEAD COILING GRILLES
4. **DELETE** Section 092713 – GLASS-FIBER-REINFORCED PLASTER FABRICATIONS
5. **ADD** Drawing A005: Overall Phasing Plan

B. 00150 Information to Bidders

1. **REVISE** Article 6 TEMPORARY PROTECTION to read:

“The Base Bid Scope of Work includes providing, erecting, maintaining and removing temporary walls, partitions, entrances and coverings as required to facilitate the phase demolition and construction as shown on the drawings. Contractor will be responsible for restoring existing corridors, as shown on Drawing A005: Overall Phasing Plan, on a daily basis to allow safe, clean and well lit passage for students, visitors and campus personnel. Temporary partitions must be erected at all openings on the corridor, whether or not depicted on the Phasing Plan.”

C. 0354416 Hydraulic Cement Underlayment

1. **ADD** new specification section. **ATTACHED**

D. 0558313 Column Covers

1. **ADD** new specification section. **ATTACHED**

E. 083323 Overhead Coiling Doors

1. **DELETE** specification section in its entirety.

F. 083326 Overhead Coiling Grilles

1. **ADD** new specification section. **ATTACHED**

G. 085113 Aluminum Windows

1. **REPLACE** specification section in its entirety. **ATTACHED**

H. 087100 Door Hardware

1. **ADD** pages 1-19; Part 1 – General thru 3.8 Door Hardware Schedule. **ATTACHED**

I. 092713 Glass-Fiber Reinforced Plaster Fabrication

1. **DELETE** specification section in its entirety.

J. 095113 Acoustical Panel Ceilings

1. **REVISE** Section 2.3 A to read:

“Manufacturers and Products: Panel Type: USG # 4221 HRC  
Grid: USG Grid dx 24 424 216 m7  
Size: 24” x 24” x 5/8”  
Color: White”

K. 102113 Plastic Toilet Compartments

1. **REPLACE** specification section in its entirety. **ATTACHED**

L. 230835 HVAC Equipment

1. **REVISE** Section 2.2 Fan Powered VAV subparagraph B to read:

“Acceptable Substitutes:

1. Johnson Controls
2. Warrens
3. ITL
4. Carrier
5. MetalAire
6. Nailor”

2. **REVISE** Section 2.3 Split System Air Conditioner System subparagraph B to read:

“Acceptable Substitutes:

1. Daiken
2. Carrier
3. Mitsubishi
4. Airedale
5. LG”

M. 230890 HVAC Ductwork Systems

1. **REVISE** Section 2.9 Ceiling Diffusers subparagraph A to read:

“Manufacturers:

1. Tuttle & Bailey Model RC
2. E.H. Price – Model SMX
3. Metalaire – Series 5000
4. Titus TDV
5. Nailor”

2. **REVISE** Section 2.10 Ceiling Exhaust and Return Registers/Grilles subparagraph A to read:

“Manufactures:

1. Tuttle & Bailey Model A77
2. Heavy Duty – Model RUGO – where noted
3. Acceptable equal by Anemostat, Titus, Carnes, Metalaire, Krueger provided specifications are met.
4. Nailor”

N. 262420 Panel Schedules

1. **INSERT** Panel Schedules dated June 12, 2014. **ATTACHED**

O. 271400 Telecommunications Cabling, Connectors, & Equipment

1. **REPLACE** all references to Category 6 Cable with Category 5E.
2. **REPLACE** all manufacturers for modular jacks, face plates and unloaded modules with “Ortronics”. No Exception.

### 3.3 CHANGES TO THE DRAWINGS

#### A. A005 Overall Phasing Plan

1. **ADD** new drawing dated July 8, 2014. **ATTACHED**

#### B. A030 Overall Plan – Demolition

1. **ADD** new sketch SKA030.01 dated July 8, 2014. **ATTACHED**
2. **ADD** new sketch SKA030.02 dated July 8, 2014. **ATTACHED**
3. **REVISE** Note 4 to read: “One urinal and one water closet to be delivered to loading dock, and place on an owner provided pallet for owner pick up.”

#### C. A100 Overall Plan – Construction

1. **ADD** new sketch SKA100.01 dated July 8, 2014. **ATTACHED**
2. **ADD** new sketch SKA100.02 dated July 8, 2014. **ATTACHED**
3. **ADD** new sketch SKA100.03 dated July 8, 2014. **ATTACHED**
4. **ADD** new sketch SKA100.04 dated July 8, 2014. **ATTACHED**

#### D. A101 Enlarged Plans

1. **ADD** new sketch SKA101.03 dated July 8, 2014. **ATTACHED**
2. **REVISE** Section Mark 4/A101 to read “4/100”.

#### E. A102 Enlarged Plans

1. **ADD** new sketch SKA102.01 dated July 8, 2014. **ATTACHED**

#### F. A103 Overall Plan – Reflected Ceiling

1. **REPLACE** A103 Overall Plan – Reflected Ceiling dated June 12, 2014 **WITH** new drawing A103 Overall Plan – Reflected Ceiling dated July 3, 2014. **ATTACHED**
2. **REPLACE** A300 Schedules & Details dated June 12, 2014 **WITH** new drawing A300 Schedules & Details dated July 8, 2014. **ATTACHED**

#### G. A301 Interior Elevations

1. **ADD** new sketch SK301.01 dated July 8, 2014. **ATTACHED**

#### H. E001 Overall Plan – Demolition

1. **REPLACE** E001 Overall Plan – Demolition dated June 12, 2014 **WITH** E001 Overall Plan – Demolition dated July 8, 2014. **ATTACHED**

#### I. E100 Overall Plan – Lighting

1. **REPLACE** E100 Overall – Lighting dated June 12, 2014 **WITH** E100 Overall – Lighting dated July 8, 2014. **ATTACHED**

J. E200 Overall Plan – Power

1. **REPLACE** E200 Overall Plan – Power dated June 12, 2014 **WITH** E200 Overall Plan – Power dated July 8, 2014. **ATTACHED**

K. ID – 1: Floor Plan

1. **REPLACE** ID-1: Floor Plan dated June 20, 2014 **WITH** ID-1: Floor Plan dated July 8, 2014. **ATTACHED**

L. ID – 2: Flooring Pattern & Layout

1. **REPLACE** ID-2: Flooring Pattern & Layout dated June 20, 2014 **WITH** ID-2: Flooring Pattern & Layout dated July 8, 2014. **ATTACHED**

M. ID – 3: Schedules

1. **REPLACE** ID-3: Schedules dated June 20, 2014 **WITH** ID-3: Schedules dated July 8, 2014. **ATTACHED**

N. ID – 4: Elevations

1. **REPLACE** ID-4: Elevations dated June 20, 2014 **WITH** ID-4: Elevations dated July 8, 2014. **ATTACHED**

O. M001 Overall Plan – Demolition

1. **ADD** Note 3 to read: “HVAC Contractor shall be responsible to provide and install temporary air filters at each open end of the return ductwork from the return plenum areas above the ceiling areas to control duct migration back to unit during demolition and new construction work. Contractor shall be responsible to verify duct opening sizing for proper installations at these locations.”
2. **ADD** Note 4 to read: “Filters are to be checked every week for dirt capacity and changed as needed during the duration of construction to maintain proper air flow of the HVAC systems.”

P. M100 Overall Plan

1. **ADD** Note 15 to read: “HVAC Contractor shall be responsible to provide and install temporary air filters at each open end of the return ductwork from the return plenum areas above the ceiling areas to control duct migration back to unit during demolition and new construction work. Contractor shall be responsible to verify duct opening sizing for proper installations at these locations.”
2. **ADD** Note 16 to read: “Filters are to be checked every week for dirt capacity and changed as needed during the duration of construction to maintain proper air flow of the HVAC systems.”

Q. P001 Plumbing Demolition Plan

1. **ADD** Note 5 to read: “Refer to Architectural plans for determination of slab on grade areas in the Men 223M and Women 223W. Contractor shall cut and patch as required to install the new systems.”

R. P200 Enlarged Plumbing Plans

1. **ADD** Note 10 to read: "Refer to Architectural plans for determination of slab on grade areas in the Men 223M and Women 223W. Contractor shall cut and patch as required to install the new systems."

**END OF ADDENDUM**



Please sign and return this page, via fax, to Eastern PCM, LLC at (717) 233-1666 indicating receipt of this Addendum.

Lancaster Welcome Center  
SOLICITATION # RFB15-01

Addendum # 3 has been received.

Company: \_\_\_\_\_  
Print Company Name

Received By: \_\_\_\_\_  
Print Name Signature

Date: \_\_\_\_\_

Please check one:

- \_\_\_\_\_ We are bidding as a prime contractor
- \_\_\_\_\_ We are not bidding
- \_\_\_\_\_ We are a sub-contractor

SECTION 035416 - HYDRAULIC CEMENT UNDERLAYMENT

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 hydraulic-cement-based, polymer-modified, self-leveling underlayment for application below interior floor coverings.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.

1.4 INFORMATIONAL SUBMITTALS

- A. Product certificates.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installer who is approved by manufacturer for application of underlayment products required for this Project.
- B. Product Compatibility: Manufacturers of underlayment and floor-covering systems certify in writing that products are compatible.

PART 2 - PRODUCTS

2.1 HYDRAULIC-CEMENT-BASED UNDERLAYMENTS

- A. Underlayment: Hydraulic-cement-based, polymer-modified, self-leveling product that can be applied in minimum uniform thickness of 1/4 inch and that can be feathered at edges to match adjacent floor elevations.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Ardex; K-15 Premium Self-Leveling Underlayment or comparable product by one of the following:
  - a. BASF Construction Chemicals, Inc.
  - b. Euclid Chemical Company (The).
  - c. L&M Construction Chemicals, Inc.
  - d. MAPEI Corporation.
  - e. USG Corporation.
2. Cement Binder: ASTM C 150, portland cement, or hydraulic or blended hydraulic cement as defined by ASTM C 219.
3. Compressive Strength: Not less than 4000 psi at 28 days when tested according to ASTM C 109/C 109M.
1. Underlayment Additive: Resilient-emulsion product of underlayment manufacturer, formulated for use with underlayment when applied to substrate and conditions indicated.
- B. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch; or coarse sand as recommended by underlayment manufacturer.
  1. Provide aggregate when recommended in writing by underlayment manufacturer for underlayment thickness required.
- C. Water: Potable and at a temperature of not more than 70 deg F.
- D. Primer: ARDEX P-82 Ultra Primer.

### PART 3 - EXECUTION

#### 3.1 PREPARATION

- A. General: Prepare and clean substrate according to manufacturer's written instructions.
  1. Treat nonmoving substrate cracks according to manufacturer's written instructions to prevent cracks from telegraphing (reflecting) through underlayment.
  2. Fill substrate voids to prevent underlayment from leaking.
- B. Concrete Substrates: Mechanically remove, according to manufacturer's written instructions, laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants that might impair underlayment bond.
- C. Adhesion Tests: After substrate preparation, test substrate for adhesion with underlayment according to manufacturer's written instructions.

#### 3.2 APPLICATION

- A. General: Mix and apply underlayment components according to manufacturer's written instructions.
  - 1. Close areas to traffic during underlayment application and for time period after application recommended in writing by manufacturer.
  - 2. Coordinate application of components to provide optimum underlayment-to-substrate and intercoat adhesion.
  - 3. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
- B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Apply underlayment to produce uniform, level surface.
  - 1. Apply a final layer without aggregate to product surface.
  - 2. Feather edges to match adjacent floor elevations.
- D. Cure underlayment according to manufacturer's written instructions. Prevent contamination during application and curing processes.
- E. Do not install floor coverings over underlayment until after time period recommended in writing by underlayment manufacturer.
- F. Remove and replace underlayment areas that evidence lack of bond with substrate, including areas that emit a "hollow" sound when tapped.

END OF SECTION 035416

SECTION 055813 - COLUMN COVERS

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 snap-together metal column covers.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product, including finishing materials.
- B. Shop Drawings: Show fabrication and installation details for column covers.
- C. Samples: For each type of exposed finish required, prepared on 6-inch-square Samples of metal of same thickness and material indicated for the Work.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For fabricator.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: A firm experienced in producing column covers similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver column covers wrapped in protective coverings and strapped together in suitable packs or in heavy-duty cartons. Remove protective coverings before they stain or bond to finished surfaces.

## PART 2 - PRODUCTS

## 2.1 SNAP-TOGETHER COLUMN COVERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Model PAC-1000F Column Covers manufactured by Petersen Aluminum, or comparable product by one of the following:
1. ATAS International, Inc.
  2. Fry Reglet Corporation.
  3. Pittcon Industries.
- B. Form column covers to shapes indicated from metal of type and minimum thickness indicated below. Return vertical edges and bend to form hook that engages continuous mounting clips.
1. Aluminum Sheet: ASTM B 209, with not less than strength and durability properties of Alloy 5005-H32, 0.125 inch thick.
    - a. Finish: Mill.
  2. Increase metal thickness or reinforce with concealed stiffeners, backing materials, or both, as needed to provide flat surfaces where indicated.
  3. Support joints with concealed stiffeners as needed to hold exposed faces of adjoining sheets in flush alignment.
  4. Form returns at vertical joints to provide hairline V-joints.
  5. Fabricate column covers without horizontal joints.

## 2.2 MISCELLANEOUS MATERIALS

- A. Fasteners: Fabricated from same basic metal and alloy as fastened metal unless otherwise indicated. Do not use metals that are incompatible with materials joined.
1. Provide concealed fasteners for interconnecting column covers and for attaching them to other work unless otherwise indicated.
- B. Sound-Deadening Materials:
1. Insulation: Unfaced, mineral-fiber blanket insulation complying with ASTM C 665, Type I, and passing ASTM E 136 test.
  2. Mastic: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.
- C. Backing Materials: Provided or recommended by column cover manufacturer.

## 2.3 PAINTS AND COATINGS

- A. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.

## 2.4 FABRICATION, GENERAL

- A. Coordinate dimensions and attachment methods of column covers with those of adjoining construction to produce integrated assemblies with closely fitting joints and with edges and surfaces aligned unless otherwise indicated.
- B. Form metal to profiles indicated, in maximum lengths to minimize joints. Produce flat, flush surfaces without cracking or grain separation at bends.

## 2.5 ALUMINUM FINISHES

- A. Aluminum Finish: Mill.

## PART 3 - EXECUTION

## 3.1 EXAMINATION

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

## 3.2 INSTALLATION

- A. Locate and place column covers plumb and in alignment with adjacent construction. Perform cutting, drilling, and fitting required to install column covers.
  - 1. Do not cut or abrade finishes that cannot be completely restored in the field. Return items with such finishes to the shop for required alterations, followed by complete refinishing, or provide new units as required.
- B. Use concealed anchorages where possible.
- C. Form tight joints with exposed connections accurately fitted together. Provide reveals and openings for sealants and joint fillers as indicated.
- D. Corrosion Protection: Apply bituminous paint or other permanent separation materials on concealed surfaces where metals would otherwise be in direct contact with substrate materials that are incompatible or could result in corrosion or deterioration of either material or finish.

## 3.3 ADJUSTING AND CLEANING

- A. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units.

3.4 PROTECTION

- A. Protect finishes from damage during construction period. Remove temporary protective coverings at time of Substantial Completion.

END OF SECTION

## SECTION 083326 - OVERHEAD COILING GRILLES

## 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. Open-curtain overhead coiling grilles.

## 1.3 ACTION SUBMITTALS

- A. Product Data: For each type and size of overhead coiling grille and accessory.
  - 1. Include construction details, material descriptions, dimensions of individual components, profiles for curtain components, and finishes.
  - 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.
  - 1. Include plans, elevations, sections, and mounting details.
  - 2. Include details of equipment assemblies. Indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
  - 3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
  - 4. Show locations of controls, locking devices, and other accessories.
  - 5. Include diagrams for power, signal, and control wiring.
- C. Samples: For each type of exposed finish on the following components, in manufacturer's standard sizes:
  - 1. Open-curtain grille with full-size components consisting of rods, spacers, and links as required to illustrate each assembly.
  - 2. Bottom bar.
  - 3. Guides.

## 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

## 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For overhead coiling grilles to include in maintenance manuals.

## 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.
- B. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC A117.1.

## PART 2 - PRODUCTS

## 2.1 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain overhead coiling grilles from single source from single manufacturer.
  - 1. Obtain operators and controls from overhead coiling-grille manufacturer.

## 2.2 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Overhead coiling grilles shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
  - 1. Component Importance Factor: As indicated on Drawings.

## 2.3 OPEN-CURTAIN GRILLE ASSEMBLY

- A. Open-Curtain Grille: Overhead coiling grille with a curtain having a network of horizontal rods that interconnect with vertical links.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide 670 Series Coiling Grilles manufactured by Overhead Door Company, or comparable product by one of the following:
    - a. Wayne Dalton.
    - b. McKeon Rolling Steel Door Co.
    - c. Cornell Iron Works
- B. Operation Cycles: Grille components and operators capable of operating for not less than 10,000. One operation cycle is complete when a grille is opened from the closed position to the fully open position and returned to the closed position.
- C. Grille Curtain Material: Stainless steel.

1. Rod Spacing: Approximately 2 inches o.c.
  2. Link Spacing: Approximately 9 inches apart in a brick pattern.
  3. Spacers: Metal tubes matching curtain material.
- D. Bottom Bar: Continuous tubular shape, fabricated from stainless steel extrusion and finished to match grille.
- E. Curtain Jamb Guides: Aluminum with exposed finish matching curtain slats. Provide continuous integral wear strips to prevent metal-to-metal contact and to minimize operational noise.
- F. Hood: Match curtain material and finish.
1. Shape: As indicated on Drawings.
  2. Mounting: As indicated on Drawings.
- G. Locking Devices: Equip grille with slide bolt for padlock.
- H. Manual Grille Operator: Manufacturer's standard crank operator.
- I. Electric Grille Operator:
1. Usage Classification: Light duty, up to 10 cycles per hour.
  2. Operator Location: Front of hood.
  3. Motor Exposure: Interior.
  4. Emergency Manual Operation: Push-up or crank type.
  5. Obstruction-Detection Device: Automatic photoelectric sensor.
  6. Control Station: Where indicated on Drawings.
- J. Grille Finish:
1. Stainless-Steel Finish: No. 4 (polished directional satin).

## 2.4 MATERIALS, GENERAL

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

## 2.5 GRILLE CURTAIN MATERIALS AND CONSTRUCTION

- A. Open-Curtain Grilles: Fabricate metal grille curtain as an open network of horizontal rods, spaced at regular intervals, that are interconnected with vertical links, which are formed and spaced as indicated and are free to rotate on the rods.
1. Stainless-Steel Grille Curtain: ASTM A 666 or ASTM A 240/A 240M, Type 300 series.
- B. Bottom Bar: Manufacturer's standard continuous shape unless otherwise indicated, finished to match grille.

1. Provide motor-operated grilles with combination bottom astragal and sensor edge.
- C. Grille Curtain Jamb Guides: Manufacturer's standard shape having curtain groove with return lips or bars to retain curtain. Provide continuous integral wear strips to prevent metal-to-metal contact and to minimize operational noise; with removable stops on guides to prevent overtravel of curtain.

## 2.6 HOODS AND ACCESSORIES

- 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 or ASTM A 240/A 240M.

## 2.7 LOCKING DEVICES

- A. Slide Bolt: Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on both left and right jamb sides, operable from coil side.
- B. Safety Interlock Switch: Equip power-operated grilles with safety interlock switch to disengage power supply when grille is locked.

## 2.8 COUNTERBALANCING MECHANISM

- A. General: Counterbalance grilles 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, seamless or welded carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up curtain without distortion of parts and to limit barrel deflection to not more than 0.03 in./ft. of span under full load.
- C. Counterbalance Spring: 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.

## 2.9 MANUAL GRILLE OPERATORS

- A. General: Equip grille with manual grille operator by grille manufacturer.
- B. 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 force to turn crank. Fabricate gearbox to be oil tight and to completely enclose operating mechanism. Provide manufacturer's standard crank-locking device.

## 2.10 ELECTRIC GRILLE OPERATORS

- A. General: Electric grille operator assembly of size and capacity recommended and provided by grille manufacturer for grille and operation cycles requirement specified, with electric motor and factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, control stations, control devices, integral gearing for locking grille, and accessories required for proper operation.
  - 1. Comply with NFPA 70.
  - 2. Control equipment complying with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6, with NFPA 70 Class 2 control circuit, maximum 24-V ac or dc.
- B. Usage Classification: Electric operator and components capable of operating for not less than number of cycles per hour indicated for each grille.
- C. Grille Operator Location(s): Operator location indicated for each grille.
  - 1. Front-of-Hood Mounted: Operator is mounted to the right or left grille head plate, with the operator on coil side of the grille-hood assembly and connected to the grille drive shaft with drive chain and sprockets. Front clearance is required for this type of mounting.
- D. Motors: Reversible-type motor for motor exposure indicated.
  - 1. Electrical Characteristics:
    - a. Phase: Single phase.
    - b. Volts: 115 V.
  - 2. Motor Size: Minimum size as indicated. If not indicated, large enough to start, accelerate, and operate grille in either direction from any position, at a speed not less than 8 in./sec. and not more than 12 in./sec., without exceeding nameplate ratings or service factor.
  - 3. Operating Controls, Controllers (Disconnect Switches), Wiring Devices, and Wiring: Manufacturer's standard unless otherwise indicated.
  - 4. Coordinate wiring requirements and electrical characteristics of motors and other electrical devices with building electrical system and each location where installed.
- E. Limit Switches: Equip motorized grille with adjustable switches interlocked with motor controls and set to automatically stop grille at fully opened and fully closed positions.

- F. Obstruction-Detection Device: External entrapment protection consisting of indicated automatic safety sensor capable of protecting full width of grille opening. Activation of sensor immediately stops and reverses downward grille travel.
  - 1. Photoelectric Sensor: Manufacturer's standard system designed to detect an obstruction in grille opening without contact between grille and obstruction.
- G. Control Station: Three-button control station in fixed location with momentary-contact push-button controls labeled "Open" and "Stop" and sustained- or constant-pressure push-button control labeled "Close."
  - 1. Interior-Mounted Units: Full-guarded, surface-mounted, heavy-duty type, with general-purpose NEMA ICS 6, Type 1 enclosure.
- H. Emergency Manual Operation: Equip electrically powered grille with capability for emergency manual operation. Design manual mechanism so required force for grille operation does not exceed 25 lbf.
- I. Emergency Operation Disconnect Device: Equip operator with hand-operated disconnect mechanism for automatically engaging manual operator and releasing brake for emergency manual operation while disconnecting motor without affecting timing of limit switch. Mount mechanism so it is accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.
- J. Motor Removal: Design operator so motor may be removed without disturbing limit-switch adjustment and without affecting emergency manual operation.

#### 2.11 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM/NOMMA's "Metal Finishes Manual for Architectural and Metal Products (AMP 500-06)" 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.

#### 2.12 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.

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. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install overhead coiling grilles 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 grilles, hoods, controls, and operators at the mounting locations indicated for each grille.
- C. Accessibility: Install overhead coiling grilles, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.
- D. Power-Operated Grilles: Install according to UL 325.

3.3 STARTUP SERVICE

- A. Perform installation and startup checks according to manufacturer's written instructions.
- B. Test and adjust controls and safety devices. Replace damaged and malfunctioning controls and equipment.

3.4 ADJUSTING

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

3.5 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service shall include 12 months' full maintenance by skilled employees of coiling-grille Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for grille operation. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.

1. Perform maintenance, including emergency callback service, during normal working hours.

3.6 DEMONSTRATION

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

END OF SECTION

## SECTION 085113 - ALUMINUM WINDOWS

## 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 aluminum windows for exterior locations.

## 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  - 1. Include construction details, material descriptions, glazing and fabrication methods, dimensions of individual components and profiles, hardware, and finishes for aluminum windows.
- B. Shop Drawings: Include plans, elevations, sections, hardware, accessories, insect screens, operational clearances, and details of installation, including anchor, flashing, and sealant installation.
- C. Samples: For each exposed product and for each color specified, 2 by 4 inches in size.

## 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer and Installer.
- B. Product Test Reports: For each type of aluminum window, for tests performed by a qualified testing agency.
- C. Sample Warranties: For manufacturer's warranties.

## 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A manufacturer capable of fabricating aluminum windows that meet or exceed performance requirements indicated and of documenting this performance by test reports, and calculations.
- B. Installer Qualifications: An installer acceptable to aluminum window manufacturer for installation of units required for this Project.

1.6 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Failure to meet performance requirements.
    - b. Structural failures including excessive deflection, water leakage, condensation, and air infiltration.
    - c. Faulty operation of movable sash and hardware.
    - d. Deterioration of materials and finishes beyond normal weathering.
    - e. Failure of insulating glass.
  - 2. Warranty Period:
    - a. Window: 10 years from date of Substantial Completion.
    - b. Glazing Units: 10 years from date of Substantial Completion.
    - c. Aluminum Finish: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. 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:
  - 1. EFCO Corporation.
  - 2. Kawneer North America; an Alcoa company.
  - 3. TRACO.
  - 4. YKK AP America Inc.
- B. Source Limitations: Obtain aluminum windows from single source from single manufacturer.

2.2 WINDOW PERFORMANCE REQUIREMENTS

- A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.
  - 1. Window Certification: AMMA certified with label attached to each window.
- B. Performance Class and Grade: ANSI/AAMA TH-HC40.

## 2.3 ALUMINUM WINDOWS

- A. Operating Types: Provide the following operating types in locations indicated on Drawings:
1. Awning: Project out.
  2. Fixed.
- B. Frames and Sashes: Aluminum extrusions complying with AAMA/WDMA/CSA 101/I.S.2/A440.
1. Thermally Improved Construction: Fabricate frames, sashes, and muntins with an integral, concealed, low-conductance thermal barrier located between exterior materials and window members exposed on interior side in a manner that eliminates direct metal-to-metal contact.
- C. Insulating-Glass Units: ASTM E 2190.
1. Glass: ASTM C 1036, Type 1, Class 1, q3.
    - a. Tint: Medium grey.
    - b. Kind: Fully tempered where indicated on Drawings.
  2. Lites: Two.
  3. Filling: Fill space between glass lites with air.
- D. Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal.
- E. Hardware, General: Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907, or other corrosion-resistant material compatible with adjacent materials; designed to smoothly operate, tightly close, and securely lock windows, and sized to accommodate sash weight and dimensions.
1. Exposed Hardware Color and Finish: Match existing window hardware.
- F. Projected Window Hardware:
1. Type and Style: Match existing window hardware.
- G. Weather Stripping: Provide full-perimeter weather stripping for each operable sash unless otherwise indicated.
- H. Fasteners: Noncorrosive and compatible with window members, trim, hardware, anchors, and other components.
1. Exposed Fasteners: Do not use exposed fasteners to the greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

## 2.4 ACCESSORIES

- A. Interior Trim: Extruded-aluminum profiles in sizes and configurations indicated on Drawings.
- B. Panning Trim: Extruded-aluminum profiles in sizes and configurations indicated on Drawings.
- C. Receptor System: Two-piece, snap-together, thermally broken, extruded-aluminum receptor system that anchors windows in place.

## 2.5 INSECT SCREENS

- A. General: Fabricate insect screens to integrate with window frame. Provide screen for each operable exterior sash. Screen wickets are not permitted.
  - 1. Type and Location: Full, inside for project-out sashes.
- B. Aluminum Frames: Manufacturer's standard aluminum alloy complying with SMA 1004 or SMA 1201. Fabricate frames with mitered or coped joints or corner extrusions, concealed fasteners, and removable PVC spline/anchor concealing edge of frame.
  - 1. Tubular Framing Sections and Cross Braces: Roll formed from aluminum sheet.
- C. Aluminum Wire Fabric: 18-by-16 mesh of 0.011-inch- diameter, coated aluminum wire.
  - 1. Wire-Fabric Finish: Natural bright Black.

## 2.6 FABRICATION

- A. Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.
- B. Glaze aluminum windows in the factory.
- C. Weather strip each operable sash to provide weathertight installation.
- D. Weep Holes: Provide weep holes and internal passages to conduct infiltrating water to exterior.
- E. Provide water-shed members above side-hinged sashes and similar lines of natural water penetration.
- F. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and installation.

## 2.7 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## 2.8 ALUMINUM FINISHES

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
  - 1. Finish Type and Color: Match existing windows.

## PART 3 - EXECUTION

## 3.1 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Verify rough opening dimensions, levelness of sill plate, and operational clearances.
- C. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure weathertight window installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

## 3.2 INSTALLATION

- A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E 2112.
- B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.
- C. Install windows and components to drain condensation, water penetrating joints, and moisture migrating within windows to the exterior.

- D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

### 3.3 ADJUSTING, CLEANING, AND PROTECTION

- A. Adjust operating sashes and hardware for a tight fit at contact points and weather stripping for smooth operation and weathertight closure.
- B. Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
  - 1. Keep protective films and coverings in place until final cleaning.
- C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
- D. Protect window surfaces from contact with contaminating substances resulting from construction operations. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written instructions.

END OF SECTION

## 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 1 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. Related Sections include the following:
  - 1. Division 8 Section "Steel Doors and Frames"
  - 2. Division 8 Section "Flush Wood Doors"

## 1.3 SUBMITTALS

- A. Product Data: Include installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Details of electrified door hardware, indicating the following:
  - 1. Wiring Diagrams: Detail wiring for power, signal, and control systems and differentiate between manufacturer-installed and field-installed wiring. Include the following:
    - a. System schematic.
    - b. Point-to-point wiring diagram.
    - c. Riser diagram.
    - d. Elevation of each door.
  - 2. Detail interface between electrified door hardware and access fire alarm, control, and security building control system.
- C. Samples for Initial Selection: Manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available for each type of door hardware indicated.
  - 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.

- D. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
  2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening.
    - a. Organize door hardware sets in same order as in the Door Hardware Schedule at the end of Part 3.
  3. Content: Include the following information:
    - a. Type, style, function, size, label, hand, and finish of each door hardware item.
    - b. Manufacturer of each item.
    - c. Fastenings and other pertinent information.
    - d. Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    - e. Explanation of abbreviations, symbols, and codes contained in schedule.
    - f. Mounting locations for door hardware.
    - g. Door and frame sizes and materials.
    - h. 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.
  4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the 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 Schedule.
  5. Submittal Sequence: Submit initial draft of final schedule along with essential Product Data to facilitate the fabrication of other work that is critical in the Project construction schedule. Submit the final Door Hardware Schedule after Samples, Product Data, coordination with Shop Drawings of other work, delivery schedules, and similar information has been completed and accepted.
- E. Keying Schedule: Prepared by or under the supervision of supplier, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.

- F. Product Certificates: Signed by manufacturers of electrified door hardware certifying that products furnished comply with requirements.
  - 1. Certify that door hardware approved for use on types and sizes of labeled fire doors complies with listed fire door assemblies.
- G. Qualification Data: For firms and persons specified in "Quality Assurance" Article.
  - 1. Include lists of completed projects with project names and addresses of architects and owners, and other information specified.
- H. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, indicating current products comply with requirements.
- I. Maintenance Data: For each type of door hardware to include in maintenance manuals specified in Division 1.
- J. Warranties: Special warranties specified in this Section.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- B. Supplier Qualifications: Door hardware supplier with warehousing facilities in Project's vicinity and who is or employs a qualified Architectural Hardware Consultant, available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
  - 1. Electrified Door Hardware Supplier Qualifications: An experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.
    - a. Engineering Responsibility: Prepare 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.
  - 2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
- C. Architectural Hardware Consultant Qualifications: A person who is currently certified by the Door and Hardware Institute 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.
  - 1. Electrified Door Hardware Qualifications: Experienced in providing consulting services for electrified door hardware installations.

- D. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that are listed to perform electrical modifications, by a testing and inspecting agency acceptable to authorities having jurisdiction, are acceptable.
- E. Regulatory Requirements: Comply with provisions of the following:
1. Where indicated to comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), "Accessibility Guidelines for Buildings and Facilities (ADAAG)," ANSI A117.1, FED-STD-795, "Uniform Federal Accessibility Standards," as follows:
    - a. Handles, Pulls, Latches, Locks, and other Operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
    - b. Door Closers: Comply with the following maximum opening-force requirements indicated:
      - 1) Interior Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
      - 2) Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
      - 3) Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
    - c. Thresholds: Not more than 1/2 inch (13 mm) high, Not more than 3/4 inch (19 mm) high for exterior sliding doors. Bevel raised thresholds with a slope of not more than 1:2.
  2. NFPA 101: Comply with the following for means of egress doors:
    - a. Latches, Locks, and Exit Devices: Not more than 15 lbf (67 N) to release the latch. Locks shall not require the use of a key, tool, or special knowledge for operation.
    - b. Delayed-Egress Locks: Lock releases within 15 seconds after applying a force not more than 15 lbf (67 N) for not more than 3 seconds.
    - c. Door Closers: Not more than 30 lbf (133 N) to set door in motion and not more than 15 lbf (67 N) to open door to minimum required width.
    - d. Thresholds: Not more than 1/2 inch (13 mm) high.
  3. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- F. Fire-Rated Door Assemblies: Provide door hardware for 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.
1. Test Pressure: Test at atmospheric pressure.

- G. Keying Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." 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.
- H. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings."
- I. All Electric Door Hardware shall be furnished and installed by the General Contractor. All Electric Door Hardware shall be wired by the Electrical Contractor. Both the Electrical & General Contractor shall meet and coordinate all work before proceeding.
- J. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." Review methods and procedures related to electrified door hardware including, but not limited to, the following:
1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
  2. Review sequence of operation for each type of electrified door hardware.
  3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  4. Review required testing, inspecting, and certifying procedures.

#### 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 with Door Number related to the final Approved Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver keys to manufacturer of key control system, or Owner as Directed.
- D. Deliver keys to Owner by registered mail or overnight package service.

#### 1.6 COORDINATION

- A. Coordinate layout and installation of recessed pivots and closers with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete."
- B. Templates: Obtain and distribute to the parties involved 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. Electrical System Roughing-in: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices, access control system, security system, and building control system.

#### 1.7 WARRANTY

- A. General Warranty: Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:
  - 1. Structural failures including excessive deflection, cracking, or breakage.
  - 2. Faulty operation of operators and door hardware.
  - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- C. Warranty Period for Locksets: Seven, (7) years from date of Substantial Completion, unless otherwise indicated.
- D. Warranty Period for Manual Closers: Ten, (10) years from date of Substantial Completion, unless otherwise indicated.
- E. Warranty Period for Exit Devices: Five, (5) years from date of Substantial Completion, unless otherwise indicated.

#### 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 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 as used in the manufacture and installation of original products.
- C. Engage a factory authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes.

#### PART 2 - PRODUCTS

## 2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in this Section, door hardware sets indicated in door and frame schedule, and the Door Hardware Schedule at the end of Part 3.
1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturer's products. Retain subparagraph below for electrified door hardware.
  2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Schedule at the end of Part 3. Products are identified by using door hardware designations, as follows:
1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
  2. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.

## 2.2 HINGES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Butt Hinges:
    - a. Stanley Commercial Hardware
- B. Standards: Comply with the following:
1. Hinges ANSI/BHMA Standard A156.1 Grade 1
- C. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.
- D. Concealed bearings are made from engineered polymer material with PTFE and Aramid fiber; bearing is maintenance free, no oil, no grease.
- E. Butt hinges equipped with easily seated, non-rising pin. Hole in bottom of pin enables quick pin removal for ease of installation.
- F. Hinge Base Metal: Unless otherwise indicated, provide the following:
1. Exterior Butt Hinges: Stainless Steel or Brass or Bronze
  2. Interior Butt Hinges: Steel or Brass or Bronze
- G. Hinge Options: Comply with the following where indicated in the Door Hardware Schedule or on Drawings:

1. Hospital Tips: Slope ends of hinge barrel.
2. Maximum Security Pin: Fix pin in hinge barrel after it is inserted.
3. 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 the following applications:
  - a. Outswinging exterior doors.
  - b. Outswinging corridor doors with locks.

H. 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.
4. Screws: Phillips flat-head screws; machine screws drilled and tapped holes for metal doors, wood screws for wood doors and frames. Finish screw heads to match surface of hinges.

## 2.3 LOCKS AND LATCHES

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

1. Mechanical Locks and Latches:
  - a. Best Lock Corporation, HACC Standard

B. Standards: Comply with the following:

1. Bored Locks and Latches: BHMA A156.2.
2. Mortise Locks and Latches: BHMA A156.13.

C. Bored Locks: ANSI A156.2, BHMA Series 4000, Grade 1, and is UL Listed.

D. Mortise Locks: Stamped steel case with steel or brass parts; ANSI A156.13, Series 1000, BHMA Grade 1 Operational and Grade 2 Security and be UL Listed.

E. Certified Products: Provide door hardware listed in the following BHMA directories:

1. Mechanical Locks and Latches: BHMA's "Directory of Certified Locks & Latches."
2. Electromagnetic Locks: BHMA's "Directory of Certified Electromagnetic & Delayed Egress Locks."

F. Lock Trim: Comply with the following:

1. Lever: Mortise Locks & Latches, Forged or Cast brass, bronze or stainless steel construction
2. Lever: Cylindrical Locks & Latches, Zinc material with a minimum wall thickness of .060
3. Dummy Trim: Match lever lock trim and escutcheons.

- G. Lock Functions: Function numbers and descriptions indicated in the Door Hardware Schedule comply with the following:
  - 1. Bored Locks: BHMA A156.2.
  - 2. Mortise Locks: BHMA A156.13.
- H. Lock Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:
  - 1. Bored Locks: Minimum 9/16-inch latch bolt throw.
  - 2. Mortise Locks: Minimum 3/4-inch latch bolt throw.
  - 3. Deadbolts: Minimum 1-inch bolt throw.
- I. Backset: 2-3/4 inches (70 mm), unless otherwise indicated.
- J. Mortise Locks & Latches shall have an anti-friction, 3/4-inch throw latch bolt with anti-friction piece made of self-lubricated stainless steel. Latch bolt with plastic insert and three-piece latch bolt are unacceptable on this project.
- K. Mortise Locks & Latches shall have levers to be operated with a roller bearing spindle hub mechanism.
- L. Cylindrical Locks & Latches to have solid shank with no opening for access to keyed lever keeper.

## 2.4 DOOR BOLTS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Flush Bolts:
    - a. Burns Manufacturing Company, Inc.
    - b. Triangle Brass Manufacturing Company, Inc.
- B. Standards: Comply with the following:
  - 1. Automatic and Self-Latching Flush Bolts: BHMA A156.3.
  - 2. Manual Flush Bolts: BHMA A156.16.
- C. Flush Bolts: BHMA Grade 1, designed for mortising into door edge.
- D. Bolt Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:
  - 1. Mortise Flush Bolts: Minimum 3/4-inch (19-mm) throw.

## 2.5 EXIT DEVICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Allegion / Von Duprin
- B. Standard: BHMA A156.3.
  - 1. BHMA Grade: Grade 1
- C. Certified Products: Provide exit devices listed in BHMA's "Directory of Certified Exit Devices."
- D. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
- E. Fire Exit Devices: Complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.
- F. Warranty: Exit device to have published Five (5) Year Warranty.
- G. Exit device shall be "touch pad" type with a touch pad that shall extend a minimum of one half (1/2) of the door width.
- H. Exit device shall have a one-quarter (1/4) gap between the face of the door and the touch bar channel eliminating the need for shims or cutting away the glass molding.
- I. Exit device lock stile chassis shall be investment cast steel. Stamped steel units will not be accepted. All device latch bolts shall be stainless steel and shall be deadlocking type.
- J. Exit device strikes shall be adjustable type investment cast stainless steel.
- K. Exit device shall include sound reduction dampening for both depression and extension of the touch pad.
- L. Exit device end cap shall be all metal and secured with a bracket that interlocks both at the touch bar channel base and hinge side filler to prevent end cap "peel-back".
- M. All exposed surfaces of the exit device housing shall be no less than 14 gauge brass or bronze; or no less than 16 gauge stainless steel. Aluminum housing type exit devices are not acceptable.
- N. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
  - 1. Operation: Rigid
- O. Outside Trim: Lever, Lever with cylinder, Pull, Pull with cylinder, material and finish to match locksets, unless otherwise indicated.
  - 1. Match design for locksets and latchsets, unless otherwise indicated.

## 2.6 CYLINDERS AND KEYING

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Cylinders:
    - a. Best Lock Corporation, HACC Standard
    - b. All cylinders shall be Best Patented Cormax, 7-pin interchangeable cores.
- B. Standards: Comply with the following:
1. Cylinders: BHMA A156.5.
- C. Cylinder Grade: BHMA Grade 1, Cylinders: Manufacturer's standard tumbler type, constructed from brass or bronze, stainless steel, or nickel silver, and complying with the following:
1. Number of Pins: Seven.
  2. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.
  3. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
  4. Bored-Lock Type: Cylinders with tailpieces to suit locks.
- D. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:
1. Removable Cores: Core insert, removable by use of a special key, and for use with only the core manufacturer's locksets.
- E. Construction Keying: Comply with the following:
1. Construction Cores: Provide Brass construction cores in all locksets and cylinders that are replaceable by permanent cores.
    - a. Replace Brass construction cores with permanent cores, as indicated in keying schedule
- F. Keying System: Unless otherwise indicated, provide a factory-registered keying system complying with the following requirements:
1. No Master Key System: Cylinders are operated by change keys only.
  2. Master Key System: Cylinders are operated by a change key and a master key.
  3. Grand Master Key System: Cylinders are operated by a change key, a master key, and a grand master key.
  4. Great-Grand Master Key System: Cylinders are operated by a change key, a master key, a grand master key, and a great-grand master key.
  5. Existing System: Master key or grand master key locks to Owner's existing system.
  6. Keyed Alike: Key all cylinders to the same change key.
- G. Keys: Provide nickel-silver keys complying with the following:
1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:

- a. Notation: **"DO NOT DUPLICATE."**
2. Quantity: In addition to one extra blank key for each lock, provide the following:
  - a. Cylinder Change Keys: Three.
  - b. Master Keys: Five.
  - c. Grand Master Keys: Five.
  - d. Great-Grand Master Keys: Five.
  - e. Control Keys: Five
  - f. Construction Master Keys: Ten
  - g. Construction Core Control Keys: Five

## 2.7 STRIKES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  1. Electric Strikes:
    - a. Security Door Controls Inc.
    - b. Folger Adam Security Inc.
- B. Standards: Comply with the following:
  1. Strikes for Bored Locks and Latches: BHMA A156.2.
  2. Strikes for Mortise Locks and Latches: BHMA A156.13.
  3. Strikes for Interconnected Locks and Latches: BHMA A156.12.
  4. Strikes for Auxiliary Deadlocks: BHMA A156.5.
  5. Dustproof Strikes: BHMA A156.16.
  6. Electric Strikes: BHMA A156.5.
- C. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
  1. Flat-Lip Strikes: For locks with three-piece antifriction latch bolts, as recommended by manufacturer.
  2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
  3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
- D. Dustproof Strikes: BHMA Grade 1
- E. Electric Strikes: BHMA Grade 1

## 2.8 OPERATING TRIM

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

1. Burns Manufacturing Company, Inc.
2. Stanley Commercial Hardware

B. Standard: Comply with BHMA A156.6.

C. Materials: Fabricate from aluminum, brass, bronze, stainless steel, unless otherwise indicated.

## 2.9 ACCESSORIES FOR PAIRS OF DOORS

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

1. Coordinators:
  - a. Burns Manufacturing Company, Inc.
  - b. Triangle Brass Manufacturing Company, Inc.
2. Removable Mullions:
  - a. Allegion / Von Duprin
3. Astragals:
  - a. Stanley Commercial Hardware
  - b. Architectural Builders Hardware, Inc.

B. Standards: Comply with the following:

1. Coordinators: BHMA A156.3.
2. Removable Mullions: BHMA A156.3.

C. Fire-Exit Removable Mullions: Provide removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions shall be used only with exit devices for which they have been tested.

## 2.10 CLOSERS

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

1. Surface-Mounted Closers:
  - a. Allegion / LCN

B. Standards: Comply with the following:

1. Closers: BHMA A156.4.

C. Surface Closers: BHMA Grade 1

- D. Certified Products: Provide door closers listed in BHMA's "Directory of Certified Door Closers."
- E. 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.

## 2.11 PROTECTIVE TRIM UNITS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Metal Protective Trim Units:
    - a. Burns Manufacturing Company, Inc.
    - b. Triangle Brass Manufacturing Company, Inc.
- B. Standard: Comply with BHMA A156.6.
- C. Materials: Fabricate protection plates from the following:
  - 1. Stainless Steel: 0.050 inch (1.3 mm) thick; beveled 4 sides.
- D. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine or self-tapping screws.
- E. Furnish protection plates sized 2" less than door width on push side and 1" less than door width on pull side, by height specified in Door Hardware Schedule.

## 2.12 STOPS AND HOLDERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Architectural Builders Hardware Mfg., Inc.
  - 2. Triangle Brass Manufacturing Company, Inc.
- B. Standards: Comply with the following:
  - 1. Stops and Bumpers: BHMA A156.16.
  - 2. Mechanical Door Holders: BHMA A156.16.
  - 3. Electromagnetic Door Holders: BHMA A156.15.
  - 4. Combination Overhead Holders and Stops: BHMA A156.8.
  - 5. Door Silencers: BHMA A156.16.
- C. Stops and Bumpers: BHMA Grade 1
- D. Mechanical Door Holders: BHMA Grade 1
- E. Combination Overhead Stops and Holders: BHMA Grade 1

- F. Electromagnetic Door Holders for Labeled Fire Door Assemblies: Coordinate with fire detectors and interface with fire alarm system.
- G. Silencers for Metal Door Frames: BHMA Grade 1; neoprene or rubber, minimum diameter **1/2 inch (13 mm)**; fabricated for drilled-in application to frame.

## 2.13 DOOR GASKETING

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Door Gasketing:
    - a. Reese Manufacturing Co., Inc.
    - b. National Guard Products, Inc.
  - 2. Door Bottoms:
    - a. Reese Manufacturing Co., Inc.
    - b. National Guard Products
- B. Standard: Comply with BHMA A156.22.
- C. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
  - 1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
  - 2. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
  - 3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- D. Air Leakage: Not to exceed **0.50 cfm per foot (0.000774 cu. m/s per m)** of crack length for gasketing other than for smoke control, as tested according to ASTM E 283.
- E. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated, based on testing according to UL 1784.
  - 1. Provide smoke-labeled gasketing on 20-minute-rated doors and on smoke-labeled doors.
- F. Fire-Labeled Gasketing: 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 UL 10B or NFPA 252.
- G. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM E 1408.

- H. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- I. Gasketing Materials: Comply with ASTM D 2000 and AAMA 701/702.

#### 2.14 THRESHOLDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Reese Manufacturing Co., Inc.
  - 2. National Guard Products, Inc.
- B. Standard: Comply with BHMA A156.21.

#### 2.15 FABRICATION

- A. Manufacturer's Nameplate: Do not provide manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise approved by Architect.
  - 1. Manufacturer's identification will be permitted on rim of lock cylinders only.
- B. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.
- C. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
  - 1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
  - 2. Steel Machine or Wood Screws: For the following fire-rated applications:
    - a. Mortise hinges to doors.
    - b. Strike plates to frames.
    - c. Closers to doors and frames.
  - 3. Steel Through Bolts: For the following fire-rated applications, unless door blocking is provided:

- a. Surface hinges to doors.
  - b. Closers to doors and frames.
  - c. Surface-mounted exit devices.
4. Spacers or Sex Bolts: For through bolting of hollow metal doors.
  5. Fasteners for Wood Doors: Comply with requirements of DHI WDHS.2, "Recommended Fasteners for Wood Doors."

## 2.16 FINISHES

- A. Standard: Comply with BHMA A156.18.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- D. BHMA Designations: Comply with base material and finish requirements indicated by the following:
  1. BHMA 600: Primed for painting, over steel base metal.
  2. BHMA 626: Satin chromium plated over nickel, over brass or bronze base metal.
  3. BHMA 628: Satin aluminum, clear anodized, over aluminum base metal.
  4. BHMA 630: Satin stainless steel, over stainless steel base metal.
  5. BHMA 652: Satin chromium plated over nickel, over steel base metal.
  6. BHMA 689: Aluminum painted, over any base metal.

## 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 SDI 107.
- B. Wood Doors: Comply with DHI A115-W series.

### 3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically 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 9 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. Key Control System: Place keys on markers and hooks in key control system cabinet, as determined by final keying schedule. Supply key cabinet with 25% expansion. Factory install keys in cabinet or in field with owner's representative. Key cabinet to be supplied with a "Complete System" equal to the Telkee System.
- D. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings, in equipment room. Verify location with Architect.
1. Configuration: Provide one power supply for each door opening.
  2. Configuration: Provide the least number of power supplies required to adequately serve doors with electrified door hardware.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

### 3.4 FIELD QUALITY CONTROL

- A. Independent Architectural Hardware Consultant: Owner or Architect will engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.

1. Independent Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

### 3.5 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: 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. Six-Month Adjustment: Approximately six months after date of Substantial Completion, Installer shall perform the following:
  1. Examine and readjust each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.
  2. Consult with and instruct Owner's personnel on recommended maintenance procedures.
  3. Replace door hardware items that have deteriorated or failed due to faulty design, materials, or installation of door hardware units.

### 3.6 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 door hardware is without damage or deterioration at time of Substantial Completion.

### 3.7 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.

### 3.8 DOOR HARDWARE SCHEDULE

END OF SECTION 08 70 00

EXIST. PANEL	Bus:		225A M.L.O.	Additional Panel Notes											
	Volts:		120/208V, 3PH, 4W	100% Neutral with Ground Bus											
<b>N1A</b>	Poles:		84	Panel contains active existing circuits that will remain. New circuits are shown in chronological order but in reality they will fill in around existing loads. Balance panel loads and update circuit directory accordingly.											
	AIC:		10,000												
	Mounting:		FLUSH												
CKT.	Breaker		Description	Notes	Load						Notes	Description	Breaker		CKT.
	Amp	Pole			A	B	C	Pole	Amp						
1	20	1	RCP- Admin Office 212A		1.1	1.0						RCP-Breakroom 214E (Refrig)	1	20	2
3	20	1	RCP-Tech Office 214D				1.1	1.1				RCP-College Pathway 214C	1	20	4
5	20	1	RCP-Recruiter Office 214B						1.1	1.3		RCP-Dean Office 212B	1	20	6
7	20	1	RCP-Assistant Director Off 214G		1.4	1.1						RCP-Tech Office 214H	1	20	8
9	20	1	RCP-Workroom 218D (copier)				1.0	0.7				RCP-Corridor 214J	1	20	10
11	20	1	RCP-Workroom 218D						0.9	0.5		RCP-Reception 218	1	20	12
13	20	1	RCP-Reception 218		0.7	1.1						RCP-Work Stations 218B	1	20	14
15	20	1	RCP-Director Office 218A				1.4	0.3				RCP-Reception 218	1	20	16
17	20	1	RCP-Reception 218						0.4	0.3		RCP-Reception 218	1	20	18
19	20	1	RCP-Reception 218		0.4	1.1						RCP-Reception 218	1	20	20
21	20	1	RCP-Reception 218				0.4	0.3				RCP-Reception 218	1	20	22
23	20	1	RCP-Reception 218						0.4	0.5		RCP-Welcome Ctr 216	1	20	24
25	20	1	RCP-Welcom Ctr 216 (kiosks)		0.4	1.1						RCP-Welcome Ctr 216 (kiosks)	1	20	26
27	20	1	RCP-Welcom Ctr 216 (kiosks)				0.4	1.1				RCP-Welcome Ctr 216 (kiosks)	1	20	28
29	20	1	RCP-Recruiter Office 214A						1.1	1.1		RCP-Financial Aid 214	1	20	30
31	20	1	RCP-Financial Aid 214		0.7	1.2					1	RCP-Water Cooler	1	20	32
33	15	1	FRPV-2 Corr 214J				0.2	0.2				FPV-3 Corridor 214J	1	20	34
35	15	1	FRPV-12 Corr 214J						0.2	0.2		FPV-17 Corridor 220D	1	20	36
37	15	1	FRPV-11 Financial Aid 214		0.5	0.2						FPV-16 Storage 218C	1	20	38
39	15	1	FRPV-14 Reception 218				0.2	0.6				FPV-13 Welcom Center 216	1	20	40
41	20	1	Roll-up Security Door- Lobby 220						1.0	1.0		RCP-ATM Lobby 220	1	20	42
					12.0		9.0		10.0			Total Connected Load KVA:		67.6	KVA
					Phase Totals										

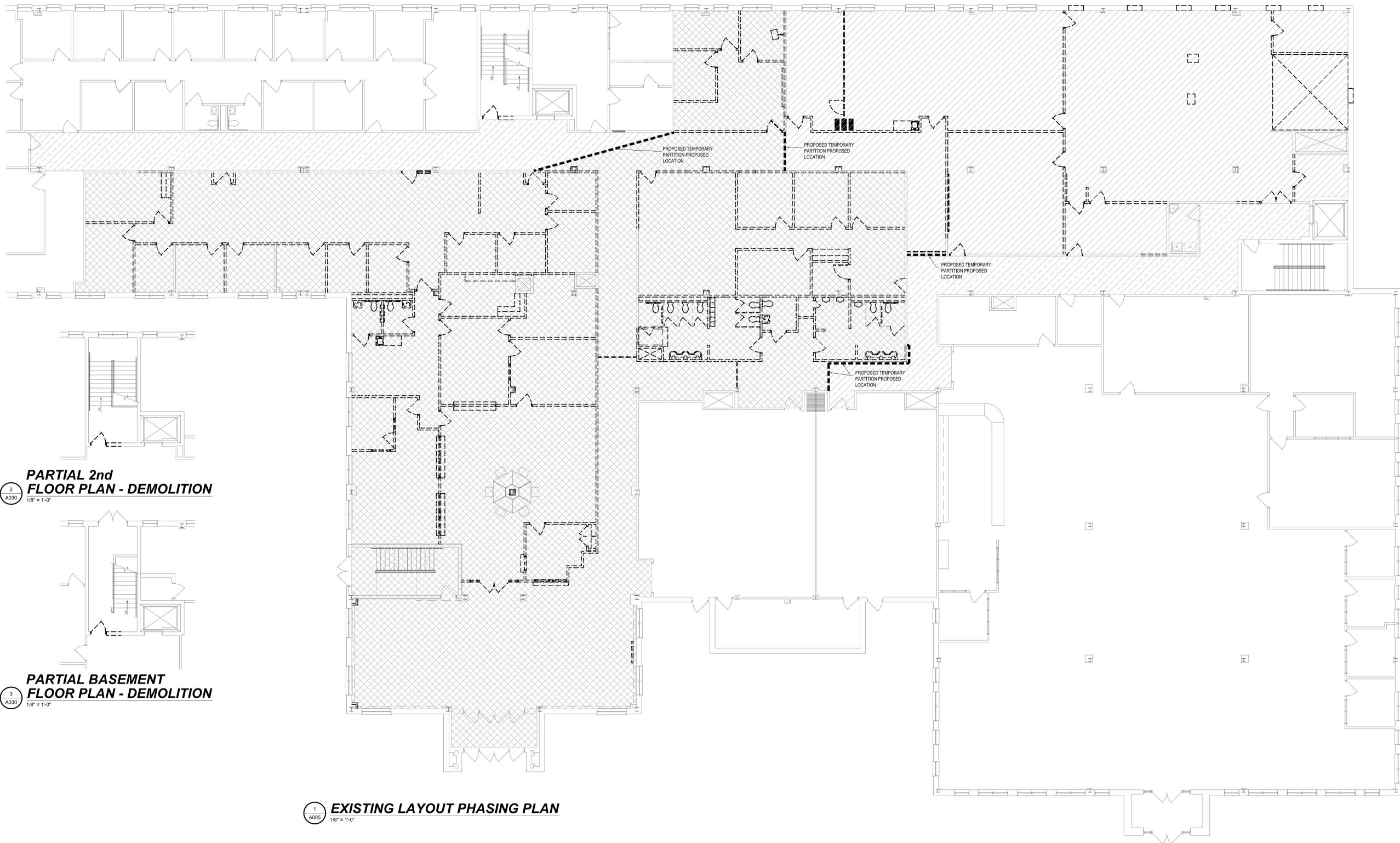
EXIST. PANEL		Bus:	225A M.L.O.	Additional Panel Notes											
<b>N1A</b>		Volts:	120/208V, 3PH, 4W	100% Neutral with Ground Bus											
		Poles:	84	Panel contains active existing circuits that will remain. New circuits are shown in chronological order but in reality											
		AIC:	10000	they will fill in around existing loads. Balance panel loads and update circuit directory accordingly.											
		Mounting:	FLUSH												
CKT.	Breaker		Description	Notes	Load						Notes	Description	Breaker		CKT.
	Amp	Pole			A		B		C				Pole	Amp	
43	20	1	RCP-PSECU 220A Data Closet		0.4	1.4						SS-1 PSECU 220A	2	20	44
45	20	1	RCP-PSECU 220A Data Closet				0.4	1.4							46
47	20	1	RCP-PSECU 220A						0.7	0.9		RCP-PSECU 220A	1	20	48
49	20	2	CU-1 PSECU		1.4	0.2						RCP-Exterior	1	20	50
51							1.4	0.8				FPV-15-upper level	1	20	52
53	20	1	RCP-Lobby 220 (Message Board)						0.2	0.9		RCP-Corr 220B, 220E	1	20	54
55	20	1	CUH-1 Men 223M		0.1							RCP-Toilet rms 223M, 223W, 225	1	20	56
57	20	1	CUH-1 Women 223W				0.1	0.7				EF-1	1	20	58
59	20	1	Spare							1.9		Hand Dryer - Men 223M	1	20	60
61	20	1	Hand Dryer-Men 223M		1.9	1.0						PSECU Sign	1	20	62
63	20	1	EF-3 PSECU				0.1	1.9				Hand Dryer - Women 223W	1	20	64
65	20	1	Hand Dryer-Women 223W						1.9	1.0		Existing Circuit	1	20	66
67	20	1	RCP-Breakroom 214E		0.9	1.0						Existing Circuit	1	20	68
69	20	1	Existing Circuit				1.0	1.0				Existing Circuit	1	20	70
71	20	1	Existing Circuit						1.0	1.0		Existing Circuit	1	20	72
73	20	1	Existing Circuit		1.0	1.0						Existing Circuit	1	20	74
75	20	1	Existing Circuit				1.0	1.0				Existing Circuit	1	20	76
77	20	1	Existing Circuit						1.0	1.0		Existing Circuit	1	20	78
79	20	1	Existing Circuit		1.0	1.0						Existing Circuit	1	20	80
81	20	1	Existing Circuit				1.0	1.0				Existing Circuit	1	20	82
83	20	1	Spare									Spare	1	20	84
					12.3		12.8		11.5						
					Phase Totals						Total Connected Load KVA:		67.6 KVA		

NEW PANEL			Bus:	225 M.L.O.	Additional Panel Notes										
<b>N1C</b>			Volts:	120/208V, 3PH, 4W	100% Neutral with Ground Bus										
			Poles:	42											
			AIC:	10,000											
			Mounting:	Surface											
CKT.	Breaker		Description	Notes	Load						Notes	Description	Breaker		CKT.
	Amp	Pole			A	B	C	Pole	Amp						
1	20	1	RCP- Counsler Office 221L		1.1	1.1						RCP-Counsler Office 221K	1	20	2
3	20	1	RCP- Counsler Office 221J				1.1	1.1				RCP-Counsler Office 221H	1	20	4
5	20	1	RCP- Counsler Office 221G						1.1	1.1		RCP-Advisor Office 221F	1	20	6
7	20	1	RCP- Director Office 221E		1.4	1.4						RCP-ODS 221D	1	20	8
9	20	1	RCP-Intern Office 221C				1.1	1.1				RCP-Counsler Office 221B	1	20	10
11	20	1	RCP-Counsler Office 221B						1.1	1.3		RCP-Asst Director 221A	1	20	12
13	20	1	RCP-Counsler Office 221P		1.1	1.1						RCP-Advisor Office 221T	1	20	14
15	20	1	RCP-Advisor Office 221U				1.1	1.1				RCP-Advisor Office 221Y	1	20	16
17	20	1	RCP-Advisor Office 221W						1.1	1.1		RCP-Advisor Office 221X	1	20	18
19	20	1	RCP-Advisor Office 221Y		1.1	1.1						RCP-Office 221AA	1	20	20
21	20	1	RCP-Workroom 221Z (copier)				1.0	0.4				RCP-Workroom 221Z	1	20	22
23	20	1	RCP-Workroom 221Z						0.7	0.5		RCP-Corridor 221CC	1	20	24
25	20	1	FPV-10 Corridor 221CC		0.5	0.2						FPV-9 Corridor 221CC	1	20	26
27	20	1	FPV-8 Corridor 221CC				0.5	0.9				RCP-Corridor 221DD	1	20	28
29	20	1	RCP-Staff Breakroom 221Q						0.9	1.0		RCP-Staff Breakroom 221Q (refig)	1	20	30
31	20	1	FPV-7 Corridor 221		0.2							Spare	1	20	32
33	20	1	Spare									Spare	1	20	34
35	20	1	Spare									Spare	1	20	36
37	20	1	Spare								2	TVSS L2	3	15	38
39	20	1	Spare												40
41	20	1	Spare												42
					10.3		9.4		9.9						
					Phase Totals					Total Connected Load KVA:		29.6	KVA		

EXIST. PANEL		Bus:	175A Main Breaker	Additional Panel Notes											
<b>N1B</b>		Volts:	120/208V, 3PH, 4W	100% Neutral with Ground Bus											
		Poles:	42	Panel contains active existing circuits that will remain. New circuits are shown in chronological order but in reality											
		AIC:	10,000	they will fill in around existing loads. Balance panel loads and update circuit directory accordingly.											
		Mounting:	Flush												
CKT.	Breaker		Description	Notes	Load						Notes	Description	Breaker		CKT.
	Amp	Pole			A	B	C	Pole	Amp						
1	20	1	RCP-Computer Kiosks 221		0.7	0.7						RCP-Computer Kiosks 221	1	20	2
3	20	1	RCP-Computer Kiosks 221				0.7	0.7				FLR RCP-Computer Kiosks 221	1	20	4
5	20	1	FLR RCP-Computer Kiosks 221						0.7	0.7		RCP-Computer Kiosks 221	1	20	6
7	20	1	RCP-Computer Kiosks 221		0.9	0.7						RCP-Reception 221BB	1	20	8
9	20	1	RCP-Reception 221BB				0.7	0.5				RCP-Conference/Meeting 227	1	20	10
11	20	1	RCP-Conference/Meeting 227						0.5	0.5		RCP-Conference/Meeting 227	1	20	12
13	20	1	RCP-Conference/Meeting 227 (refrig)		1.0	0.5						Projection Screen Conf/Mtg 227	1	20	14
15	20	1	Existing Circuit				1.0	1.0				FPV-5 Conference/Meeting 227	1	20	16
17	20	1	Existing Circuit						1.0	1.0		Existing Circuit	1	20	18
19	20	1	Existing Circuit		1.0	1.0						Existing Circuit	1	20	20
21	20	1	Existing Circuit				1.0	1.0				Existing Circuit	1	20	22
23	20	1	Existing Circuit						1.0	1.0		Existing Circuit	1	20	24
25	20	1	Existing Circuit		1.0	1.0						Existing Circuit	1	20	26
27	20	1	Existing Circuit				1.0	1.0				Existing Circuit	1	20	28
29	20	1	Existing Circuit						1.0	1.0		Existing Circuit	1	20	30
31	20	1	Existing Circuit		1.0	1.0						Existing Circuit	1	20	32
33	20	1	Existing Circuit				1.0	1.0				Existing Circuit	1	20	34
35	20	1	Existing Circuit						1.0	1.0		Existing Circuit	1	20	36
37	20	1	Existing Circuit		1.0	1.0						Existing Circuit	1	20	38
39	20	1	Existing Circuit				1.0	1.0				Existing Circuit	1	20	40
41	20	1	Existing Circuit									Existing Circuit	1	20	42
					12.5		11.9		10.4						
					Phase Totals					Total Connected Load KVA: 34.8 KVA					

## PANEL NOTES

1	Provide groundfault breaker for personal protection.
2	Provide conductors, overcurrent device and exact placement as recommended by the TVSS manufacturer.
3	Refer to Power Riser Diagram for wire and conduit sizes.
4	
5	
6	
7	
8	
9	
10	

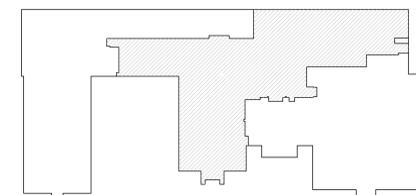


**2**  
A030  
**PARTIAL 2nd FLOOR PLAN - DEMOLITION**  
1/8" = 1'-0"

**3**  
A030  
**PARTIAL BASEMENT FLOOR PLAN - DEMOLITION**  
1/8" = 1'-0"

**1**  
A005  
**EXISTING LAYOUT PHASING PLAN**  
1/8" = 1'-0"

LEGEND	
	PHASE 1 - AREA CONTRACTOR MAY BEGIN WORK ON 08/18/14
	PHASE 2 - AREA CONTRACTOR MAY BEGIN WORK ON 09/02/14
	AREA OF CONSTRUCTION THAT WILL REQUIRE CLEANUP AND ADEQUATE PREPARATION FOR SAFE DAILY PUBLIC ACCESS
	TEMPORARY PARTITION. NOTE: 1. TEMPORARY PARTITIONS WILL REQUIRE LOCKABLE ACCESS FOR SECURITY 2. CONSTRUCTION REQUIRED TO PREVENT DUST TO MIGRATE FROM CONSTRUCTION ZONE TO OWNER OCCUPIED AREAS



**KEY PLAN**  
SCALE: 1/64"=1'-0"

BEERS + HOFFMAN  
20A East Rockhill Road  
Lancaster, Pennsylvania 17601  
P: (717) 560-8952  
F: (717) 560-1952  
815 Cumberland Street  
Lancaster, Pennsylvania 17602  
P: (717) 273-2774  
www.beers+h.com



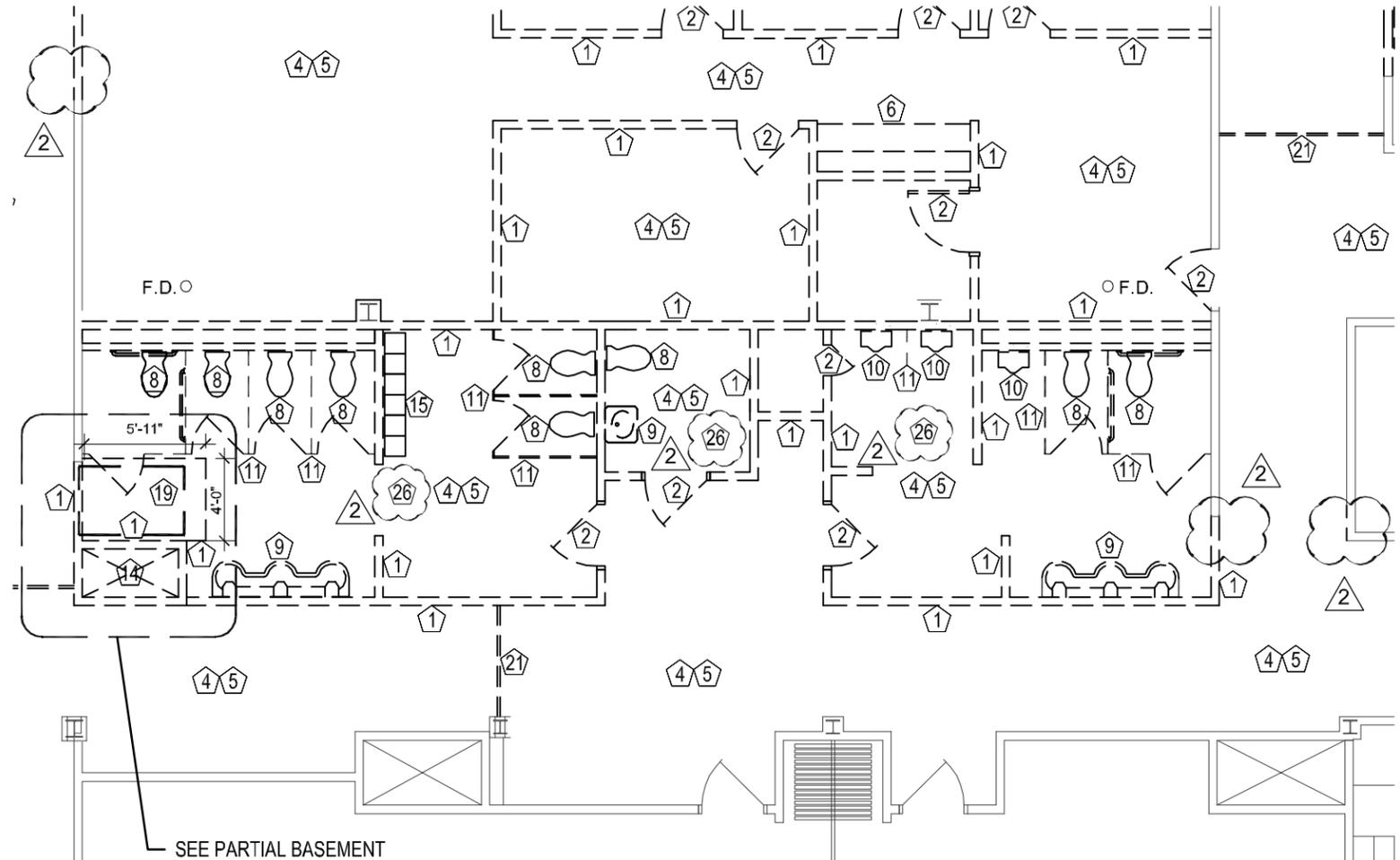
**OVERALL PHASING PLAN**  
PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
1641 OLD PHILADELPHIA PIKE, LANCASTER PA 17602  
CITY, STATE, ZIP/PO BOX  
EAST LAMPETER TOWNSHIP

BY	DMH
RELEASE DESCRIPTION	ISSUED FOR AGENDUM NO. 2
DATE	07.28.14
NO.	
Drawn By:	DMH
Checked By:	
Issue Date:	06.20.14
<b>A005</b>	
BH JOB NO.	14-008

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DUE TO DISTORTION FROM REPRODUCTION THIS DRAWING IS NOT TO BE SCALED FROM THE DRAWINGS. ONLY DIMENSIONS SHOWN SHALL GOVERN. ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK.

**DEMOLITION NOTES**

- 1 REMOVE EXISTING PORTION OF METAL STUD WALL. PREPARE ADJ. WALLS FOR NEW CONSTRUCTION
- 2 REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY. CONTRACTOR TO SALVAGE AND TURN OVER TO OWNER ALL LOCKSETS. CONTRACTOR TO PROVIDE BIN AND DELIVER TO LOADING DOCK FOR OWNER PICK UP.
- 3 REMOVE WINDOW AND FRAME IN ITS ENTIRETY. PREPARE WALL FOR NEW CONSTRUCTION
- 4 REMOVE FLOORING. PREPARE SUB-SURFACE FOR NEW FLOOR. FINISH MATERIAL PER MANUFACTURERS WARRANTY.
- 5 REMOVE SUSPENDED CEILING GRID AND TILE
- 6 REMOVE CASEWORK AND COUNTERTOP
- 7 REMOVE COUNTER AND TRANSACTION WINDOW
- 8 REMOVE WATER CLOSET. ONE WATER CLOSET TO BE TURNED OVER TO HACC. SEE PLUMBING DRAWINGS.
- 9 REMOVE SINK. SEE PLUMBING DRAWINGS.
- 10 REMOVE URINAL, ONE URINAL TO BE TURNED OVER TO HACC. SEE PLUMBING DRAWINGS.
- 11 REMOVE TOILET PARTITIONS.
- 12 REMOVE FOLDING PARTITION.
- 13 CUT NEW OPENING IN EXTERIOR MASONRY WALL FOR NEW WINDOW AND LINTEL. PATCH AND REPAIR DISTURBED MATERIALS TO MATCH ADJACENT CONDITIONS.
- 14 HVAC CHASE TO BE RELOCATED. INFILL EXISTING OPENING IN FLOOR. PATCH AND REPAIR TO MATCH EXISTING CONDITIONS
- 15 REMOVE LOCKERS.
- 16 REMOVE FLOOR TROUGH DRAIN AND CAP DRAIN LINE. INFILL OPENING TO MATCH EXISTING. REFER TO PLUMBING DEMOLITION PLAN FOR LOCATIONS OF ALL FLOOR OPENINGS TO BE INFILLED.
- 17 DEMO RAISED CONCRETE FLOOR AT EXISTING COOLER AREA. POUR NEW CONCRETE FLOOR TO MATCH EXISTING.
- 18 REMOVE QUARRY TILE FLOOR AS REQUIRED SO THAT THERE IS A MINIMUM 1/4" BELOW THE EXISTING ADJACENT CONCRETE SUBFLOOR AT CORRIDOR NEAR THE ELEVATOR AND STAIRWELL. DUE TO THE SLOPE OF FLOOR, SOME AREAS MAY NOT HAVE TO BE DISTURBED IF ALREADY AT OR BELOW THE 1/4" MINIMUM REQUIREMENT TO THE EXISTING ADJACENT CONCRETE SUBFLOOR. CLEAN AND PRIME SUBFLOOR (OR EXISTING TILE) AS RECOMMENDED PER MANUFACTURER'S WARRANTY. POUR A MINIMUM 1/4" THICK SELF LEVELING CONCRETE TO MATCH EXISTING ADJACENT SUBFLOOR LEVEL AT CORRIDOR NEAR THE ELEVATOR AND STAIRWELL.
- 19 DEMO CONCRETE FLOOR, REMOVE UNEXCAVATED EARTH, AND PREP AREA FOR CONCRETE VAULT FOR NEW RELOCATED DUCT TUNNEL.
- 20 REMOVE EXISTING CMU WALL FOR NEW DOOR AND LINTEL, SHORE STRUCTURE ABOVE AS REQUIRED. PREPARE ADJ. WALLS FOR NEW CONSTRUCTION
- 21 REMOVE EXISTING ROLL-UP GATE
- 22 REMOVE EXISTING CMU RETAINING WALL
- 23 REMOVE EXISTING EARTH
- 24 REMOVE OF EXISTING DUCTWORK, SEE MECH. DWGS.
- 25 REMOVE EXISTING MESSAGE BOARD
- 26 SEE PLUMBING DRAWINGS FOR DEMOLITION AND PATCHING OF EXISTING CONCRETE SLAB ON GRADE. SEE SKA100.01 FOR EXTENT OF CUTTING AND PATCHING OF EXISTING CONCRETE SLAB ON GRADE



1  
A030

**PARTIAL PLAN - DEMOLITION**

1/8" = 1'-0"

BEERS + HOFFMAN  
20A East Roseville Road  
Lancaster, Pennsylvania 17601  
P: (717) 580-4925  
F: (717) 580-1924

815 Cumberland Street  
Lebanon, Pennsylvania 17042  
P: (717) 273-7774  
www.beershoff.com

**B** ARCHITECTURE

NO.	DATE	REVISION DESCRIPTION
2	07/08/14	ADDENDUM NO. 2

SK - OVERALL PLAN - DEMOLITION

PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602

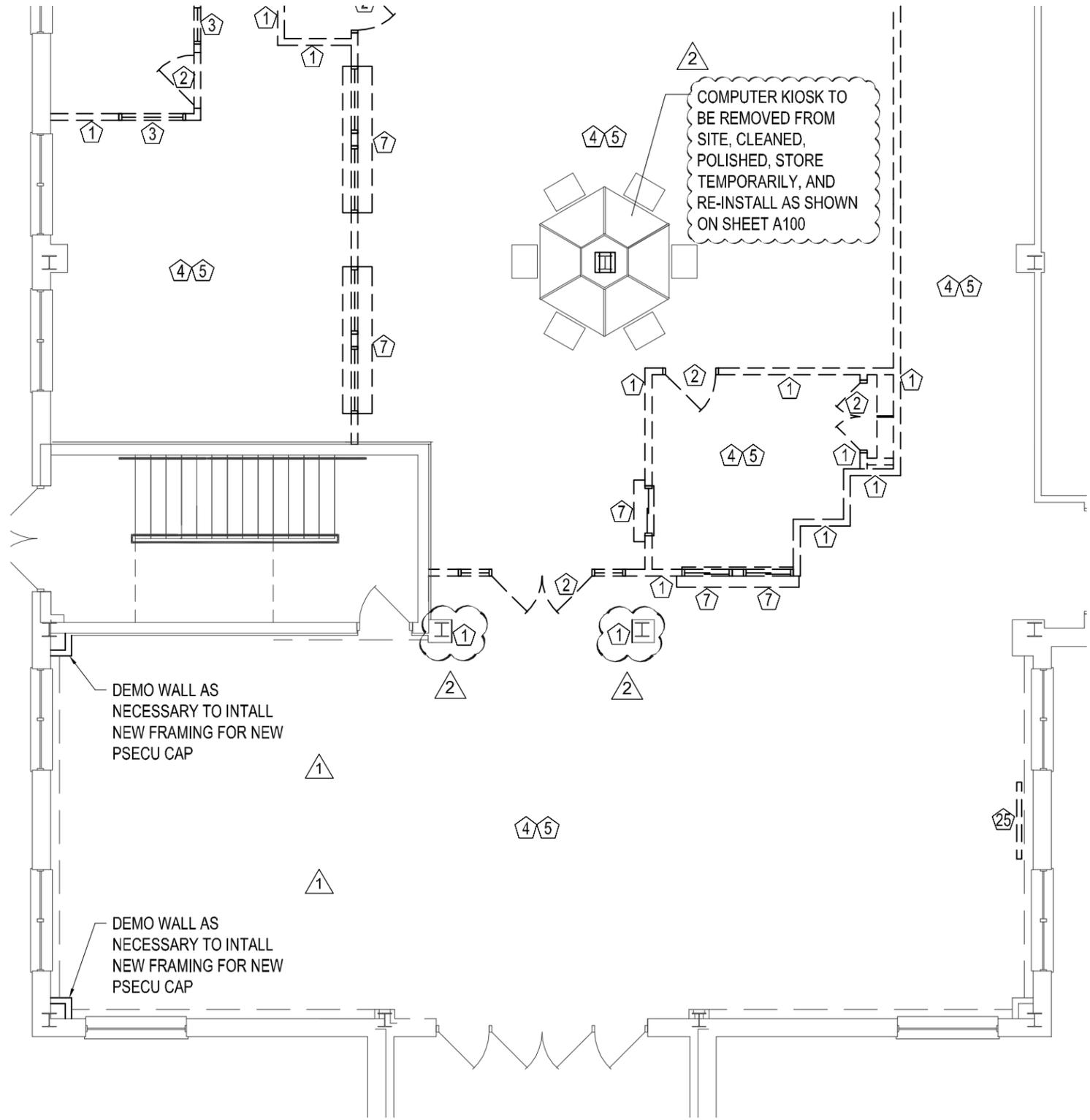
Drawn By DMH

Checked By --

Date 2014.06.20

**SK- A030.01**

JOB NO. 14-008



1  
A030

# PARTIAL PLAN - DEMOLITION

1/8" = 1'-0"

NO.	DATE	REVISION DESCRIPTION
2	07/08/14	ADDENDUM NO. 2

SK - OVERALL PLAN - DEMOLITION

PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602

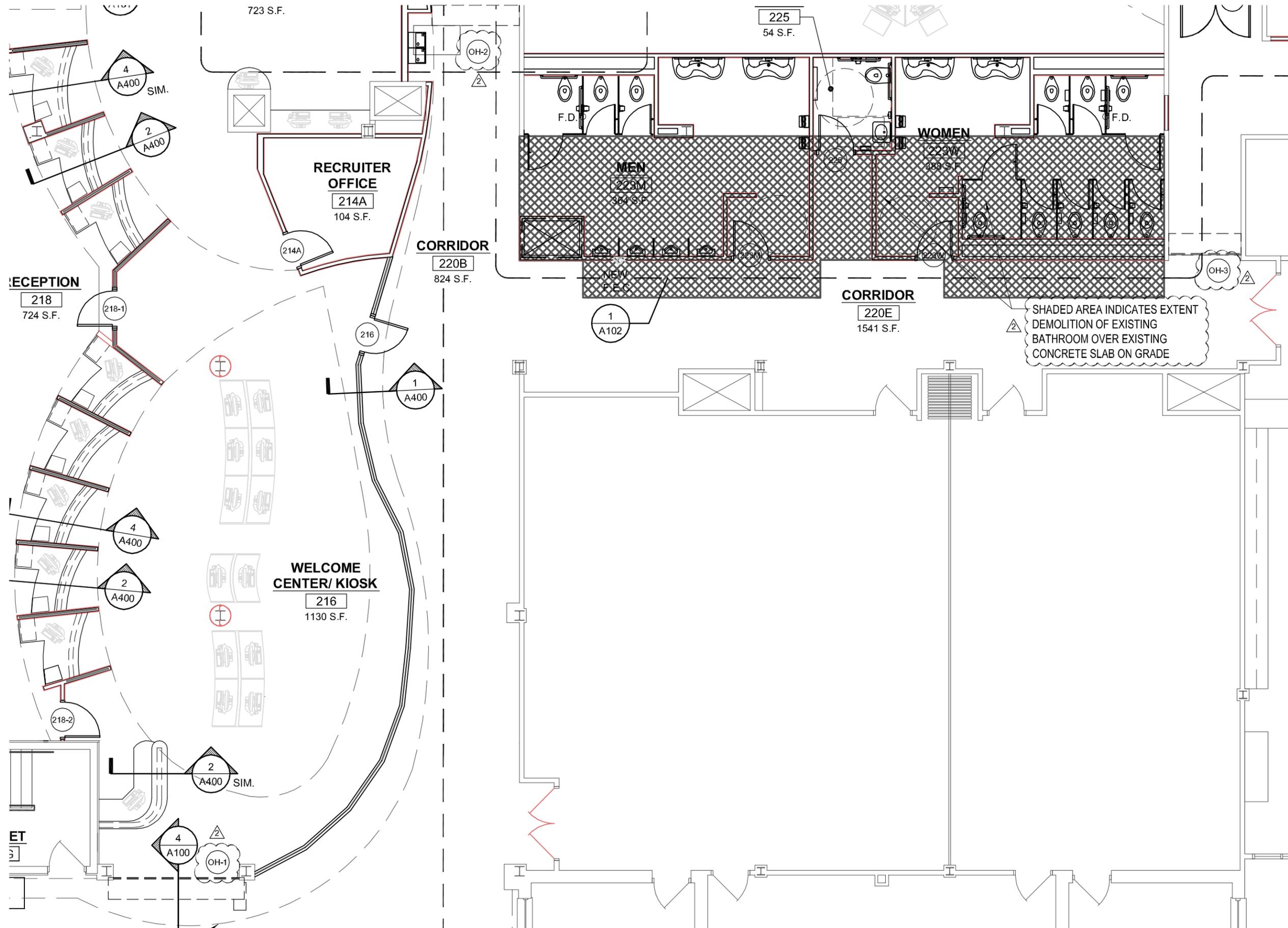
Drawn By DMH

Checked By --

Date 2014.06.20

SK-A030.02

JOB NO. 14-008



NO.	DATE	REVISION DESCRIPTION
2	07/08/14	ADDENDUM NO. 2

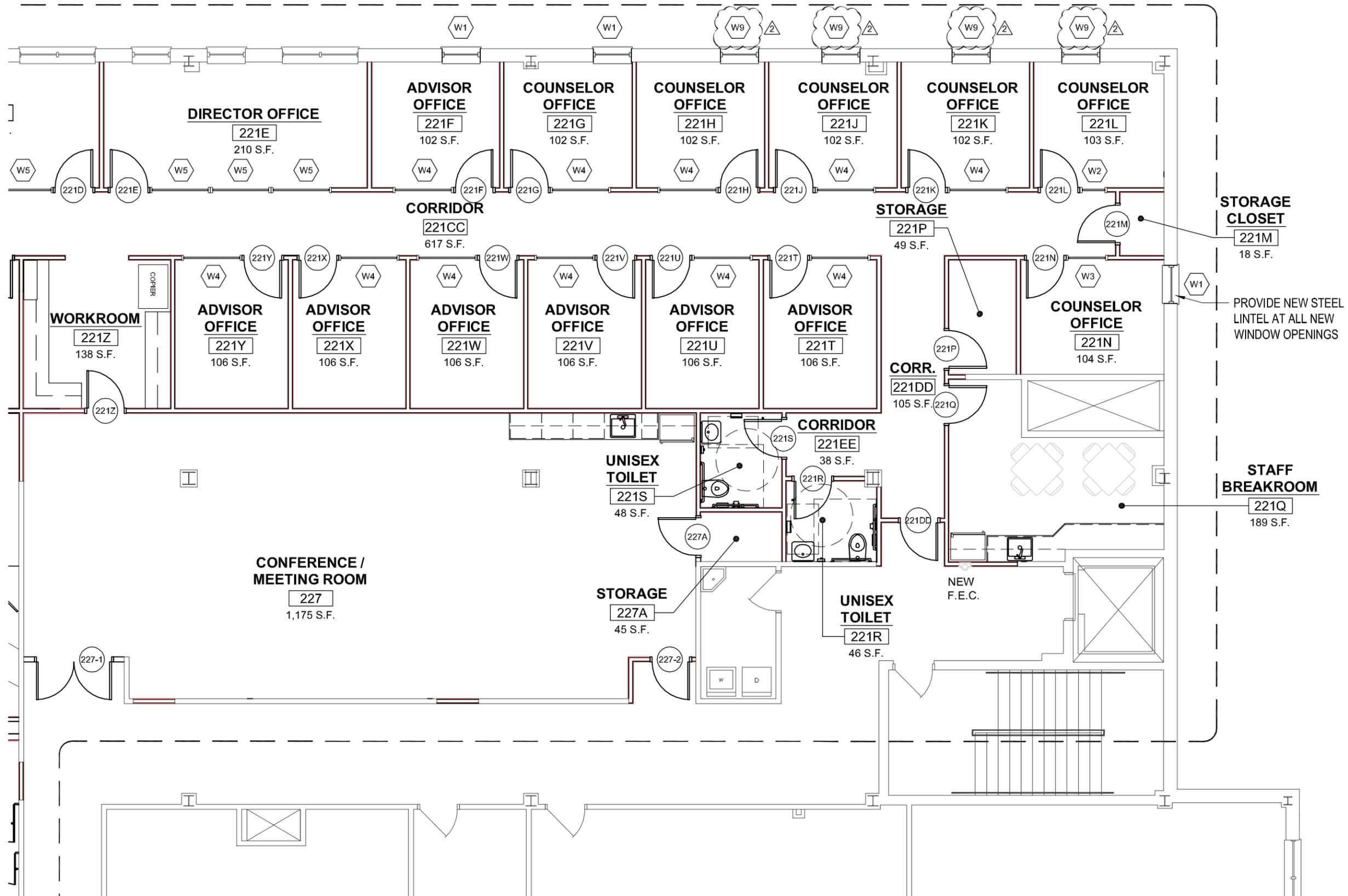
  

SK - OVERALL PLAN - CONSTRUCTION	PROPOSED RENOVATIONS TO THE: <b>HACC WELCOME CENTER</b> 1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602
Drawn By	DMH
Checked By	-
Date	2014.07.03
<b>SK- A100.01</b>	
JOB NO.	14-008

**BEERS + HOFFMAN**  
 20A East Roseville Road  
 Lancaster, Pennsylvania 17601  
 F: (717) 568-1955  
 P: (717) 568-1952

**BEERS + HOFFMAN ARCHITECTURE**

815 Cumberland Street  
 Lebanon, Pennsylvania 17042  
 P: (717) 273-7774  
 www.beershoff.com



SK - OVERALL PLAN - CONSTRUCTION	NO.	DATE	REVISION DESCRIPTION
	2	07/08/14	ADDENDUM NO. 2

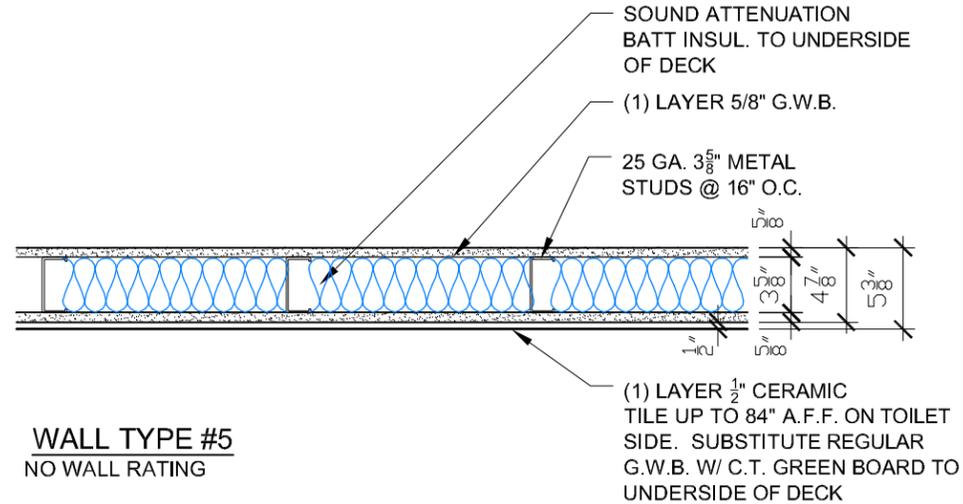
PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
 1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602

Drawn By	DMH
Checked By	-
Date	2014.07.03
<b>SK-A100.02</b>	
JOB NO.	14-008

**BEERS + HOFFMAN**  
 204 East Roseville Road  
 Lancaster, Pennsylvania 17601  
 F: (717) 568-1955  
 P: (717) 568-1952

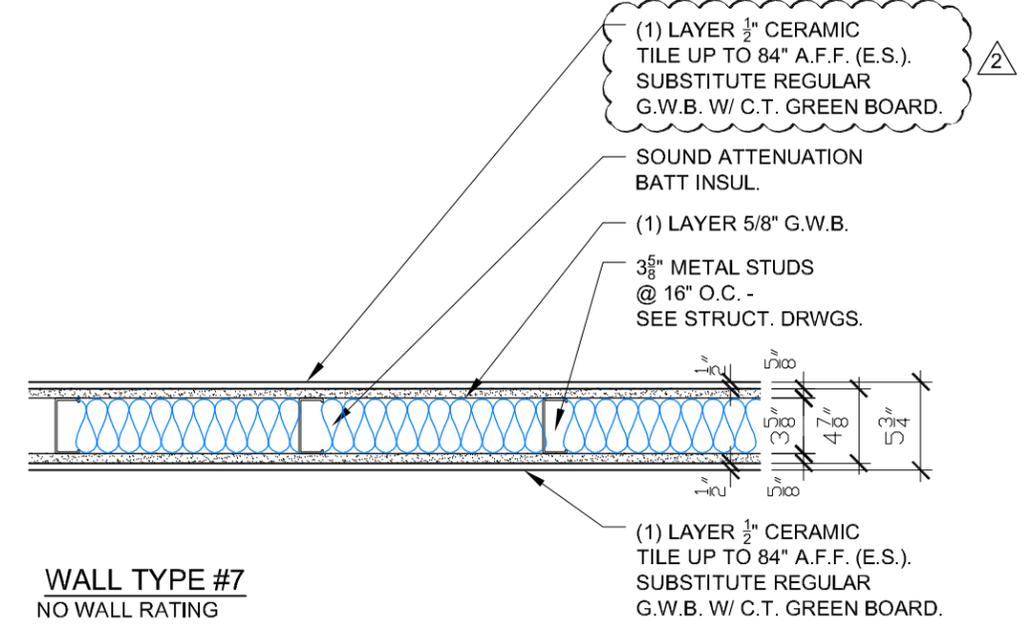
**ARCHITECTURE**

815 Cumberland Street  
 Lebanon, Pennsylvania 17042  
 P: (717) 273-7774  
 www.beersid.com



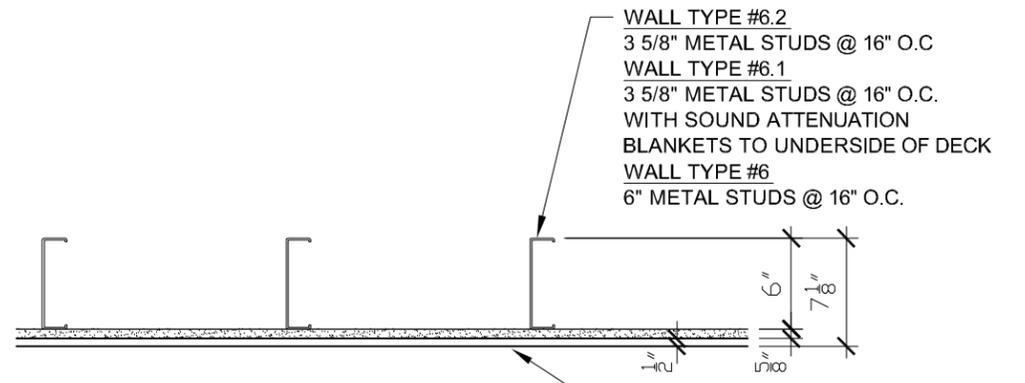
**WALL TYPE #5**  
NO WALL RATING

**\* NOTE: TOILET ROOMS TO RECEIVE MOISTURE RESISTANT G.W.B.**



**WALL TYPE #7**  
NO WALL RATING

**\* NOTE: TOILET ROOMS TO RECEIVE MOISTURE RESISTANT G.W.B.**



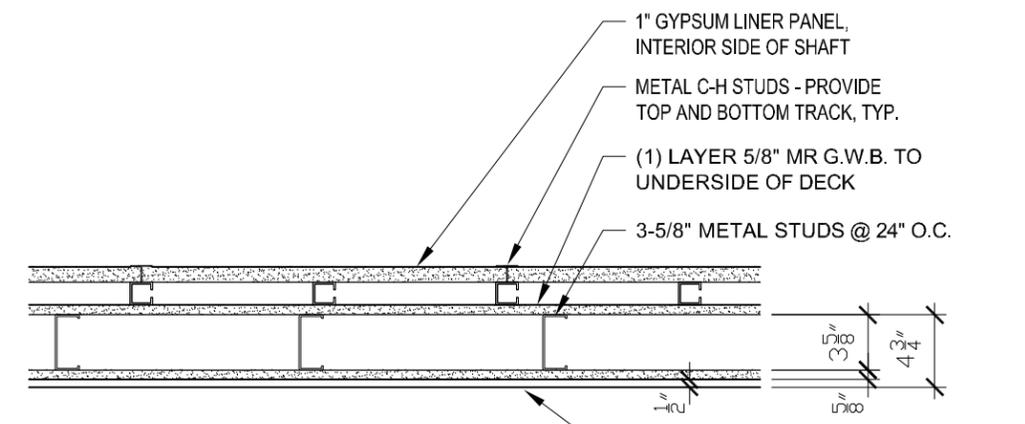
**WALL TYPE #6**  
NO WALL RATING

**WALL TYPE #6.1**  
NO WALL RATING

**WALL TYPE #6.2**  
NO WALL RATING

**WALL TYPE #6.2**  
3 5/8" METAL STUDS @ 16" O.C.  
**WALL TYPE #6.1**  
3 5/8" METAL STUDS @ 16" O.C. WITH SOUND ATTENUATION BLANKETS TO UNDERSIDE OF DECK  
**WALL TYPE #6**  
6" METAL STUDS @ 16" O.C.  
**WALL TYPE #6** (1) LAYER 1/2" CERAMIC TILE UP TO 84" A.F.F. ON TOILET SIDE. 5/8" GREEN BOARD 6" ABOVE CLG.  
**WALL TYPE #6.1** (1) LAYER 5/8" G.W.B. TO UNDERSIDE OF DECK  
**WALL TYPE #6.2** (1) LAYER 5/8" G.W.B. 6" ABOVE CEILING

**\* NOTE: TOILET ROOMS TO RECEIVE MOISTURE RESISTANT G.W.B.**



**WALL TYPE #8**  
SHAFT WALL - 1 HR. RATING  
UL#U415-A/U469

**WALL TYPE #8.1**  
SHAFT WALL - 1 HR. RATING  
UL#U415-A/U469

**WALL TYPE #8** (1) LAYER 1/2" CERAMIC TILE UP TO 84" A.F.F. ON TOILET SIDE. SUBSTITUTE REGULAR G.W.B. W/ C.T. GREEN BOARD TO UNDERSIDE OF DECK  
**WALL TYPE #8.1** (1) LAYER 5/8" G.W.B. TO UNDERSIDE OF DECK

**\* NOTE: TOILET ROOMS TO RECEIVE MOISTURE RESISTANT G.W.B.**

NO.	DATE	REVISION DESCRIPTION
2	07/08/14	ADDENDUM NO. 2

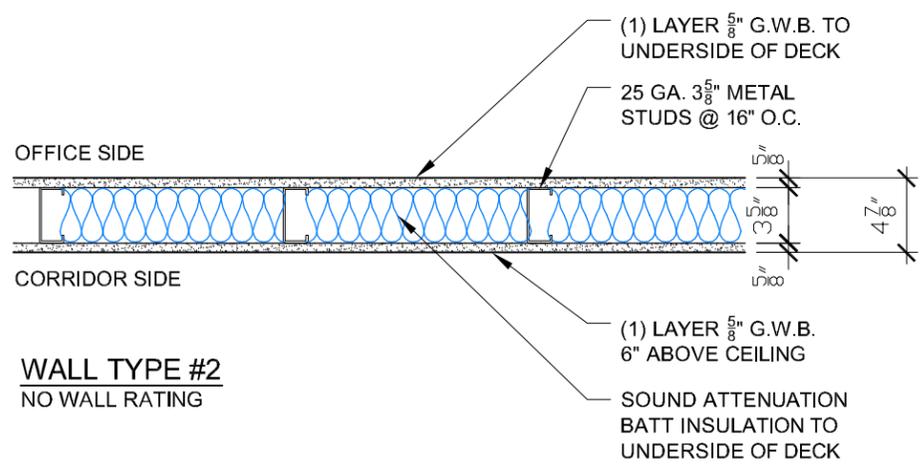
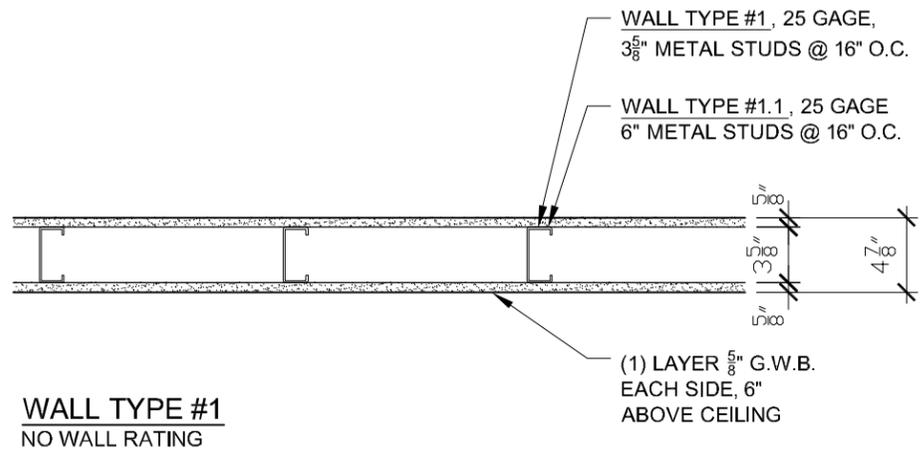
SK - OVERALL PLAN - CONSTRUCTION

**PROPOSED RENOVATIONS TO THE:**  
**HACC WELCOME CENTER**  
1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602

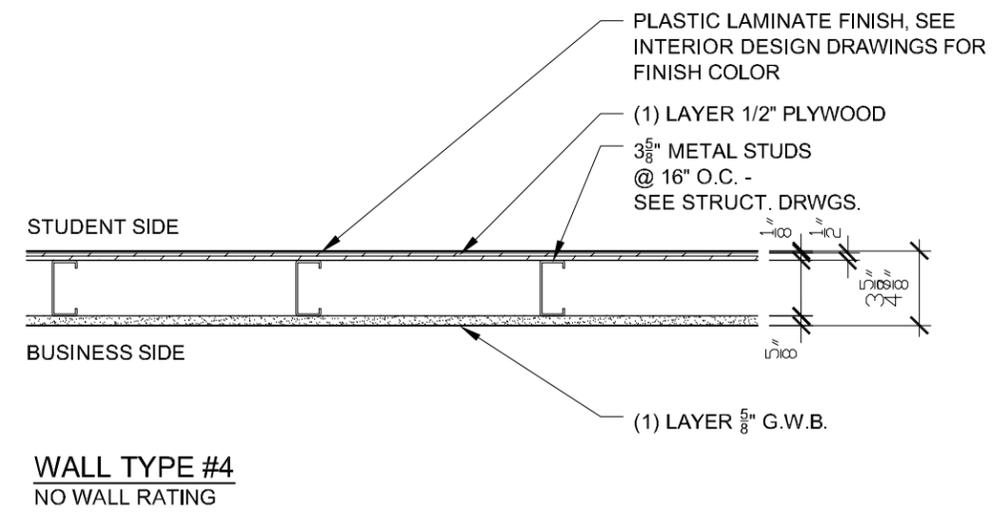
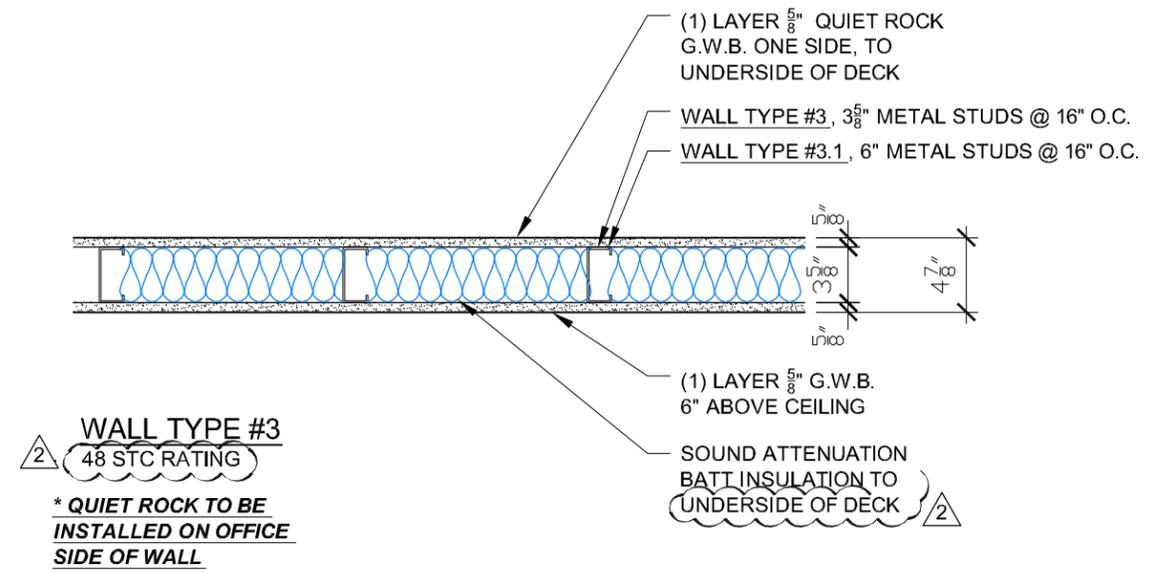
Drawn By	DMH
Checked By	--
Date	2014.07.03

**SK-A100.03**

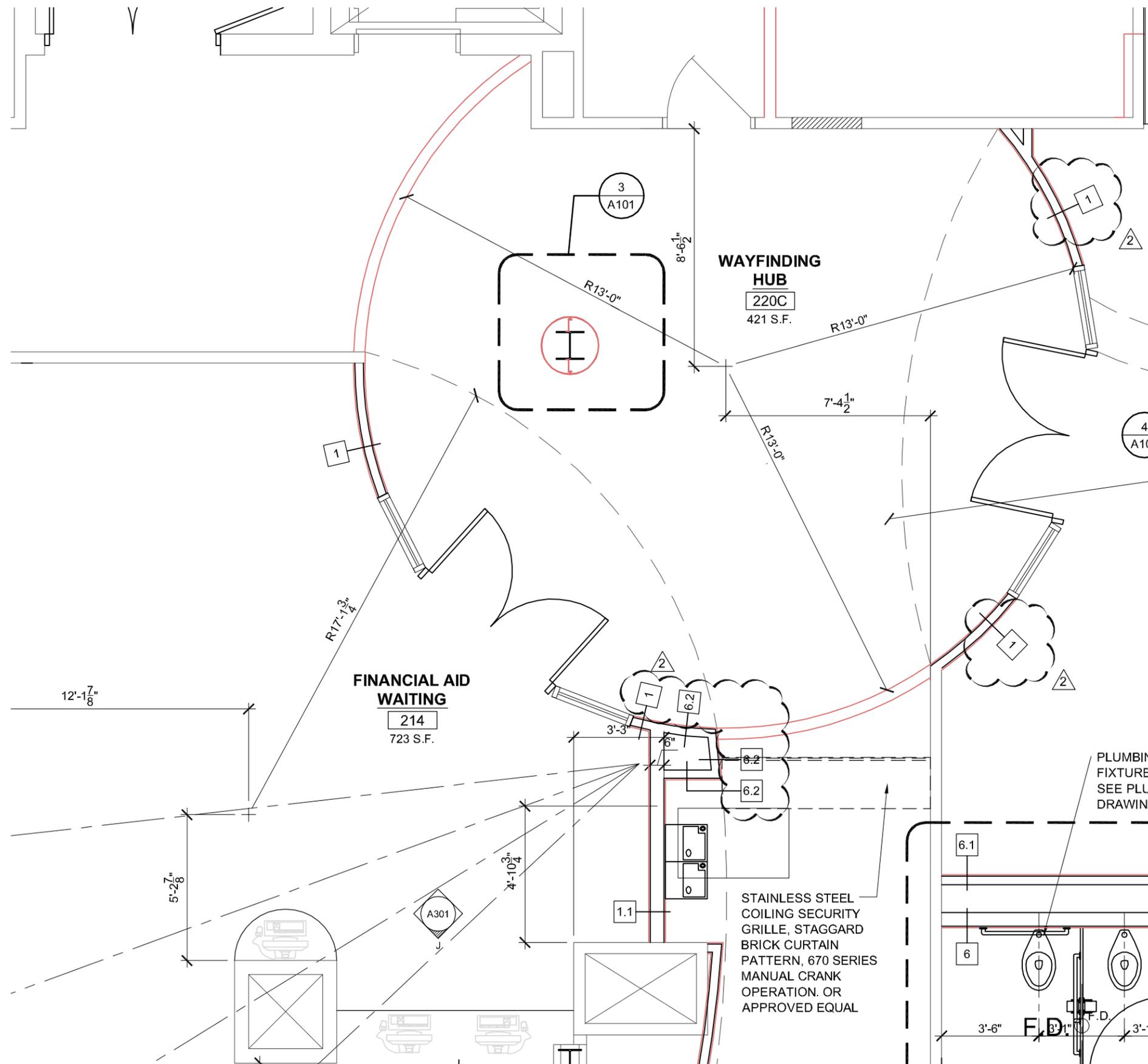
JOB NO. 14-008



**WALL TYPES**  
SCALE: 1" = 1'-0"



SK - OVERALL PLAN - CONSTRUCTION	NO.	DATE	REVISION DESCRIPTION
	2	07/08/14	ADDENDUM NO. 2
<b>PROPOSED RENOVATIONS TO THE:</b> <b>HACC WELCOME CENTER</b> 1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602			
Drawn By	DMH		
Checked By	-		
Date	2014.07.03		
<b>SK-A100.04</b>			
JOB NO.	14-008		



2  
A101

# ENLARGED FLOOR PLAN

1/4" = 1'-0"

NO.	DATE	REVISION DESCRIPTION
2	07/08/14	ADDENDUM NO. 2

SK - ENLARGED PLANS

Drawn By DMH  
Checked By --  
Date 2014.06.20

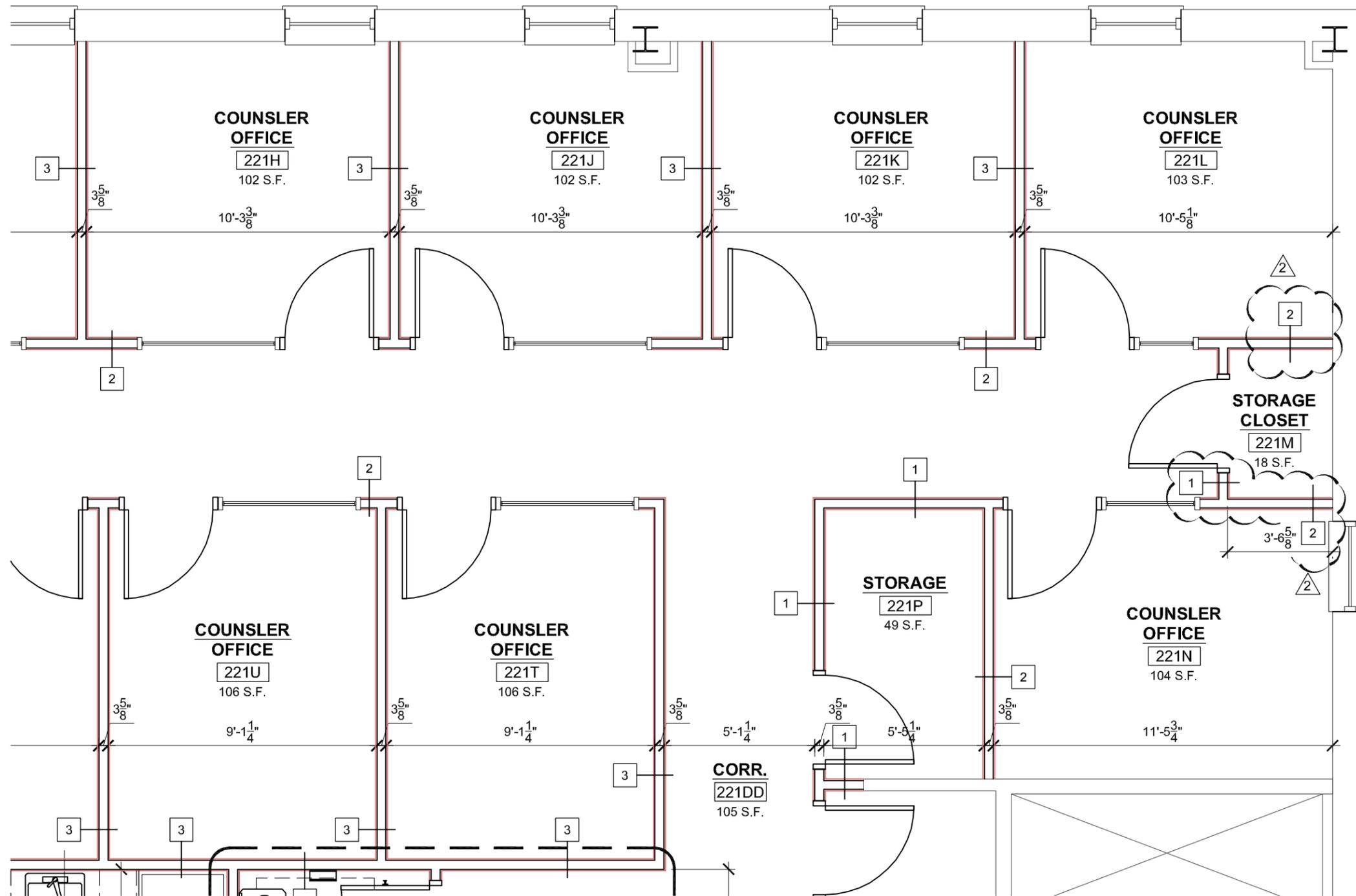
SK-A101.03

JOB NO. 14-008

PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602



BEERS + HOFFMAN  
20A East Roseville Road  
Lancaster, Pennsylvania 17601  
P: (717) 399-1982  
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Lebanon, Pennsylvania 17042  
P: (717) 273-7774  
www.beers+h.com



1  
A102 **ENLARGED FLOOR PLAN**  
1/4" = 1'-0"

NO.	DATE	REVISION DESCRIPTION
2	07/08/14	ADDENDUM NO. 2

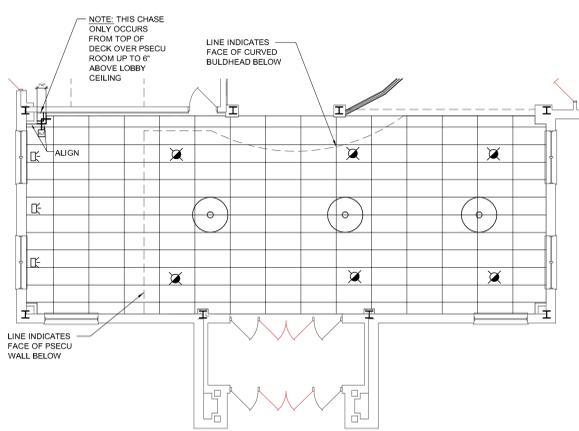
SK - ENLARGED PLANS

PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602

Drawn By DMH  
Checked By --  
Date 2014.06.20

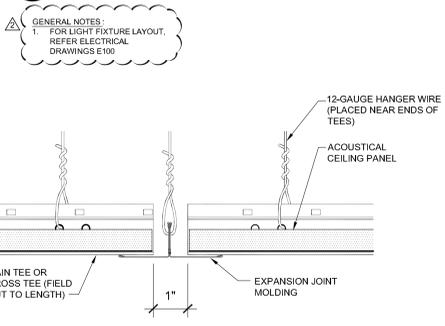
SK- A102.01

JOB NO. 14-008



**1 HIGH CEILING @ LOBBY**  
1/8" = 1'-0"

**1 OVERALL PLAN - REFLECTED CEILING**  
1/8" = 1'-0"



**2 EXPANSION JOINT @ CEILING**  
3" = 1'-0"

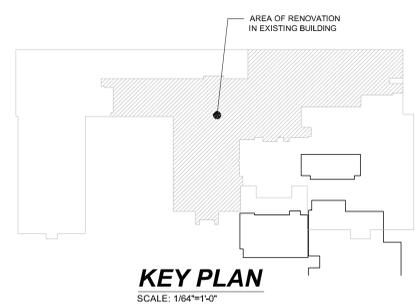
**GENERAL CEILING NOTES**

**GENERAL:**

1. ALL SUSPENDED ACOUSTICAL CEILINGS ARE TO BE CENTERED IN SPACES WITH PANELS CUT TO EQUAL SIZE ON OPPOSITE SIDES OF CEILING, TYP., U.N.O.
2. CENTER ALL LIGHT FIXTURES IN RESPECTIVE PANELS, TYP., U.N.O. SEE ELECTRICAL DRAWINGS FOR FIXTURE TYPES, SIZES AND ADDITIONAL INFORMATION.
3. WHERE ANY FIXTURE OR OTHER ELEMENT (INCLUDING EXIT SIGNS) PROJECTS DOWNWARD FROM CEILING, CONTRACTOR SHALL VERIFY THAT NO DOOR SWING IS OBSTRUCTED BY PROJECTION AND SHALL NOTIFY ARCHITECT IN WRITING PRIOR TO ANY MODIFICATIONS TO ELIMINATE CONFLICT.
4. SEE FINISH SCHEDULES AND DRAWINGS AS APPLICABLE FOR ADDITIONAL INFORMATION REGARDING CEILINGS.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURES AND DIFFUSERS NOT INDICATED ON REFLECTED CEILING PLANS.
6. ALL SOFFIT, FASCIA AND BULKHEAD DIMENSIONS SHOWN ON REFLECTED CEILING PLAN ARE FINISH TO FINISH, U.N.O.
7. DETAILS, LEGENDS AND NOTES SHOWN ON THIS DRAWING ARE APPLICABLE TO ALL OTHER REFLECTED CEILING PLANS EVEN IF NOT SHOWN ON THOSE SHEETS.
8. COORDINATE CEILINGS AS SHOWN IN REFLECTED CEILING PLANS WITH ALL OTHER CONTRACT DOCUMENTS.
9. ALL BULKHEADS IN-LINE WITH A WALL SHALL BE THE SAME CONSTRUCTION AS THAT WALL, U.N.O.

**CEILING LEGEND**

	NEW 2X4 "SECOND LOOK" LAY-IN ACOUSTICAL TILE W/ 2X2 FLUORESCENT LIGHT.
	NEW 2X4 "STANDARD" LAY-IN ACOUSTICAL TILE W/ 2X4 FLUORESCENT LIGHT.
	NEW 2X4 RECESSED FLUORESCENT LIGHT.
	NEW SUSPENDED TYPE FLUORESCENT UTILITY TYPE LIGHT.
	G.W.B. ENCLOSED SOFFIT ABOVE WALL CABINETRY.



**KEY PLAN**  
SCALE: 1/64"=1'-0"

**OVERALL PLAN - REFLECTED CEILING**  
PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
1641 OLD PHILADELPHIA PIKE, LANCASTER, PA 17602  
EAST LANCASTER TOWNSHIP

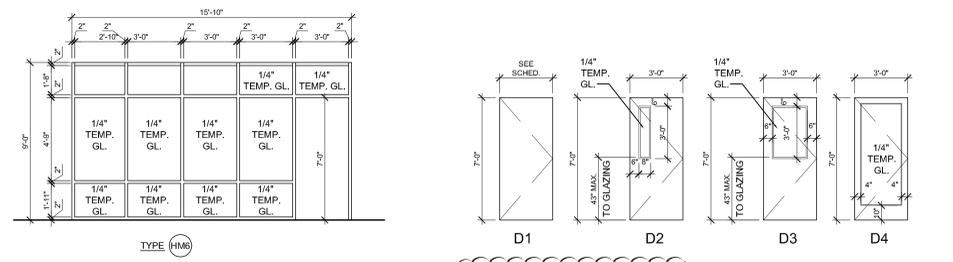
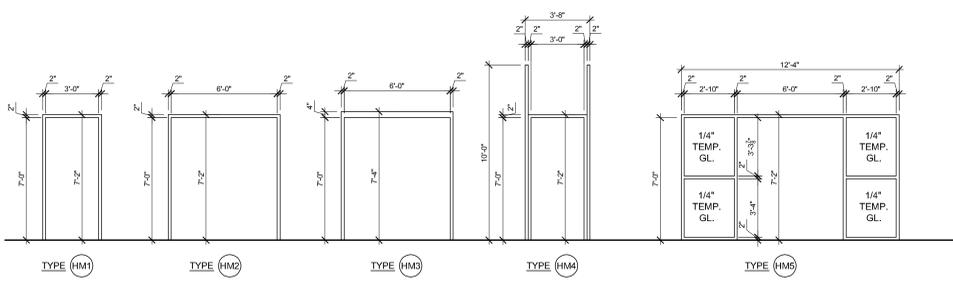
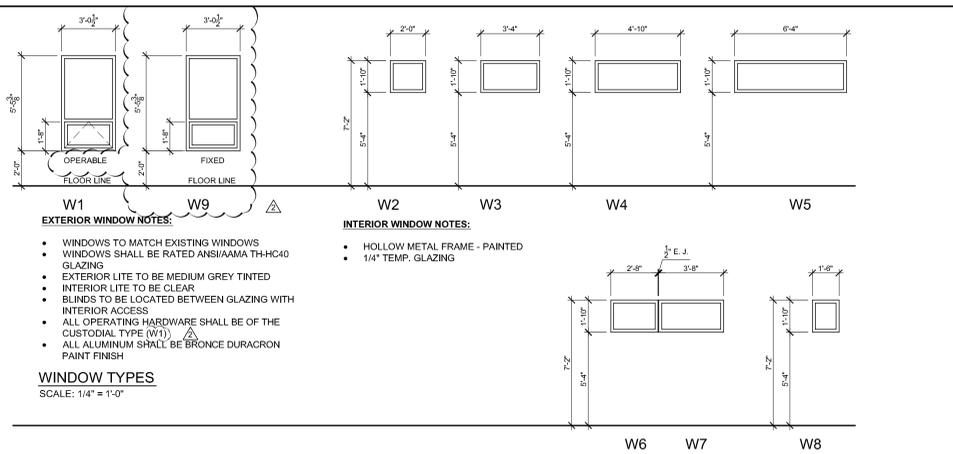
BY	DMH
DESIGN DEVELOPMENT SET	DMH
ISSUED FOR OWNER REVIEW	DMH
ISSUED FOR BID	
ADDENDUM NO. 2	
RELEASE DESCRIPTION	
NO.	2
DATE	05/02/14
	06/05/14
	06/12/14
	07/03/14
Drawn By:	DMH
Checked By:	
Issue Date:	06.20.14
<b>A103</b>	
BH JOB NO.	14-008

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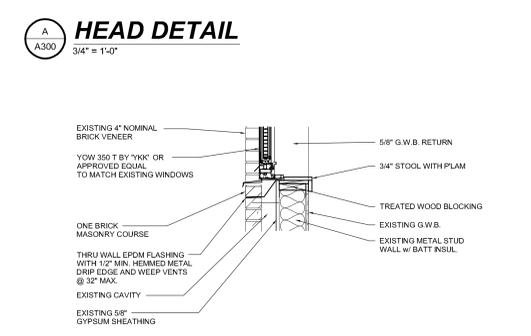
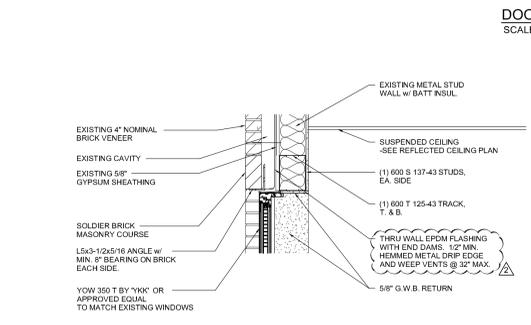
BEERS + HOFFMAN  
20A East Rockhill Road  
Lancaster, Pennsylvania 17601  
P: (717) 566-4655  
F: (717) 566-1656  
815 Cumberland Street  
Lancaster, Pennsylvania 17602  
P: (717) 273-1774  
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BEERS + HOFFMAN  
ARCHITECTURE





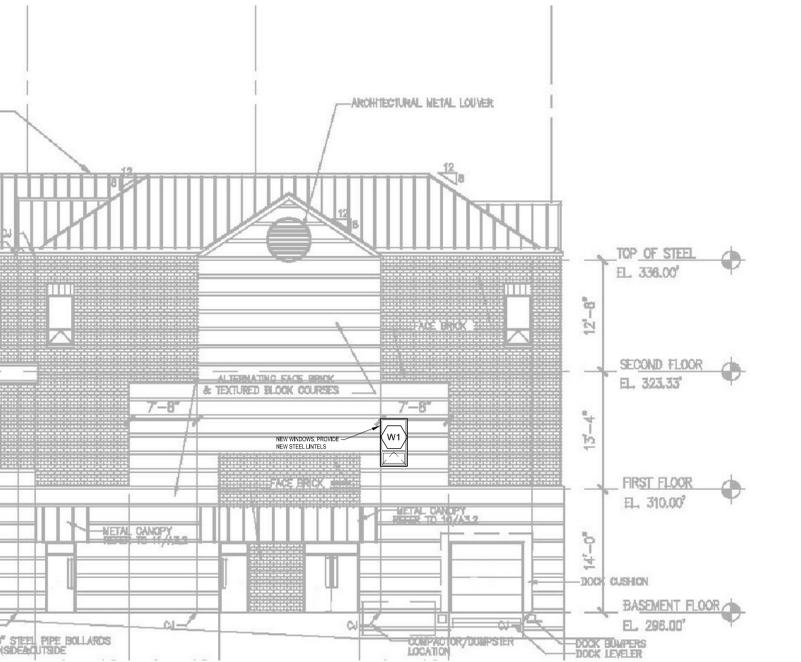
**HOLLOW METAL FRAME TYPES**  
SCALE: 1/4" = 1'-0"



**DOOR SCHEDULE**

NO.	DOOR			FRAME			DETAILS			FRAME/HOWE. RATING	REMARKS		
	TYPE	WIDTH	HEIGHT	THK.	MATL.	FINISH	TYPE	MATL.	FINISH			HEAD	JAMB
<b>FLOOR PLAN</b>													
212A	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
212B	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214	D4	(2) 3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM5	H.M.	PTD.	-	-	-	1
214A	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214B	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214C	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214D	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214E	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214F	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214G	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
214H	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
216	D3	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM4	H.M.	PTD.	-	-	-	1
218-1	D3	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM4	H.M.	PTD.	-	-	-	1
218-2	D3	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
218A	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
218C	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
218D	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
218F	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
220A	D4	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM6	H.M.	PTD.	-	-	-	1
220D	D3	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
220G	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1, 2
221	D4	(2) 3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM5	H.M.	PTD.	-	-	-	1
221A	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221B	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221C	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221D	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221E	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221F	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221G	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221H	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221J	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221K	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221L	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221M	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221N	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221P	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221Q	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221R	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221S	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221T	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221U	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221V	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221W	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221X	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221Y	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221Z	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221AA	D2	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
221DD	D3	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
223M	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
223W	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
225	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
227-1	D1	(2) 3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM2	H.M.	PTD.	-	-	-	1
227-2	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
227A	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
225	D1	3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM1	H.M.	PTD.	-	-	-	1
<b>STAIRS</b>													
S2-1	D2	(2) 3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM3	H.M.	PTD.	-	-	-	1 HR.
S2-2	D2	(2) 3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM3	H.M.	PTD.	-	-	-	1 HR.
S2-3	D2	(2) 3'-0"	7'-0"	1-3/4"	S.C. WD.	STAIN	HM3	H.M.	PTD.	-	-	-	1 HR.
<b>OVERHEAD COILING SECURITY GRILLE</b>													
OH-1	OH	10'-10"	9'-0"	-	ALUM.	-	-	STEEL	-	-	-	-	-
OH-2	OH	7'-6"	9'-0"	-	ALUM.	-	-	STEEL	-	-	-	-	-
OH-3	OH	6'-3"	9'-0"	-	ALUM.	-	-	STEEL	-	-	-	-	-

GENERAL DOOR SCHEDULE REMARKS:  
1. FOR DOOR HARDWARE SELECTION, SEE SPECIFICATIONS  
2. 20" WIDE x 18" HIGH LOUVER



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 F: (717) 566-4524  
 816 Cumberland Street  
 Lancaster, Pennsylvania 17602  
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**ARCHITECTURE**

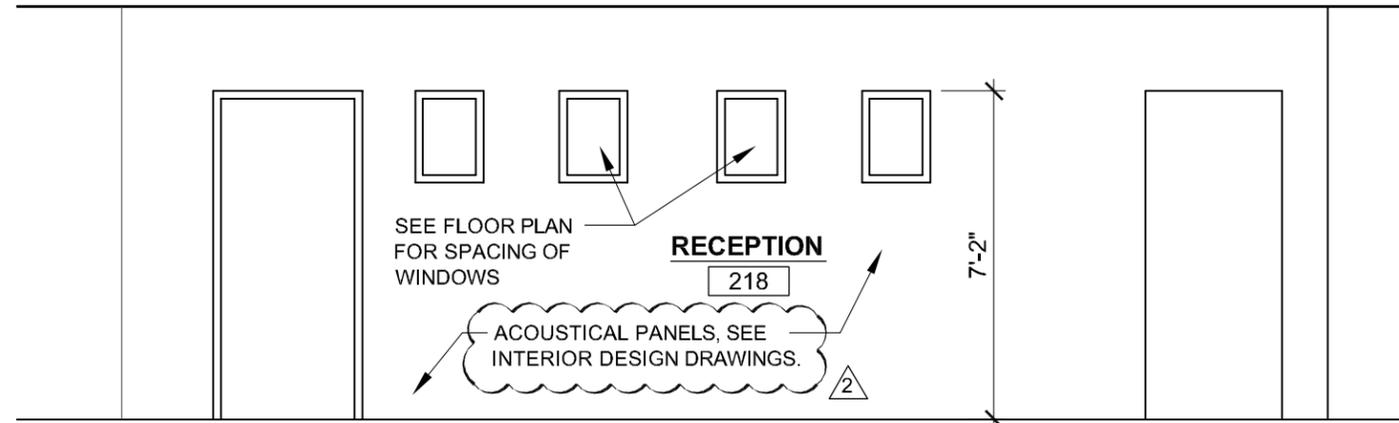
SCHEDULES & DETAILS  
 PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
 1641 OLD PHILADELPHIA PIKE, LANCASTER, PA 17602  
 CITY, STATE, ZIP/CODE  
 EAST LANPETER TOWNSHIP

BY: DMH  
 DESIGN DEVELOPMENT SET  
 ISSUED FOR OWNER REVIEW  
 ISSUED FOR BID  
 APPENDUM NO. 2

DATE: 05.02.14  
 06.05.14  
 06.12.14  
 07.08.14

NO. 2  
 Drawn By: DMH  
 Checked By:  
 Issue Date: 06.20.14

**A300**  
 BH JOB NO. 14-008



T  
A301

**RECEPTION**

1/4" = 1'-0"

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 F: (717) 560-1952

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NO.	DATE	REVISION DESCRIPTION
2	07/08/14	ADDENDUM NO. 2

SK - INTERIOR ELEVATIONS

PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER**  
 1641 OLD PHILADELPIA PIKE, LANCASTER PA 17602

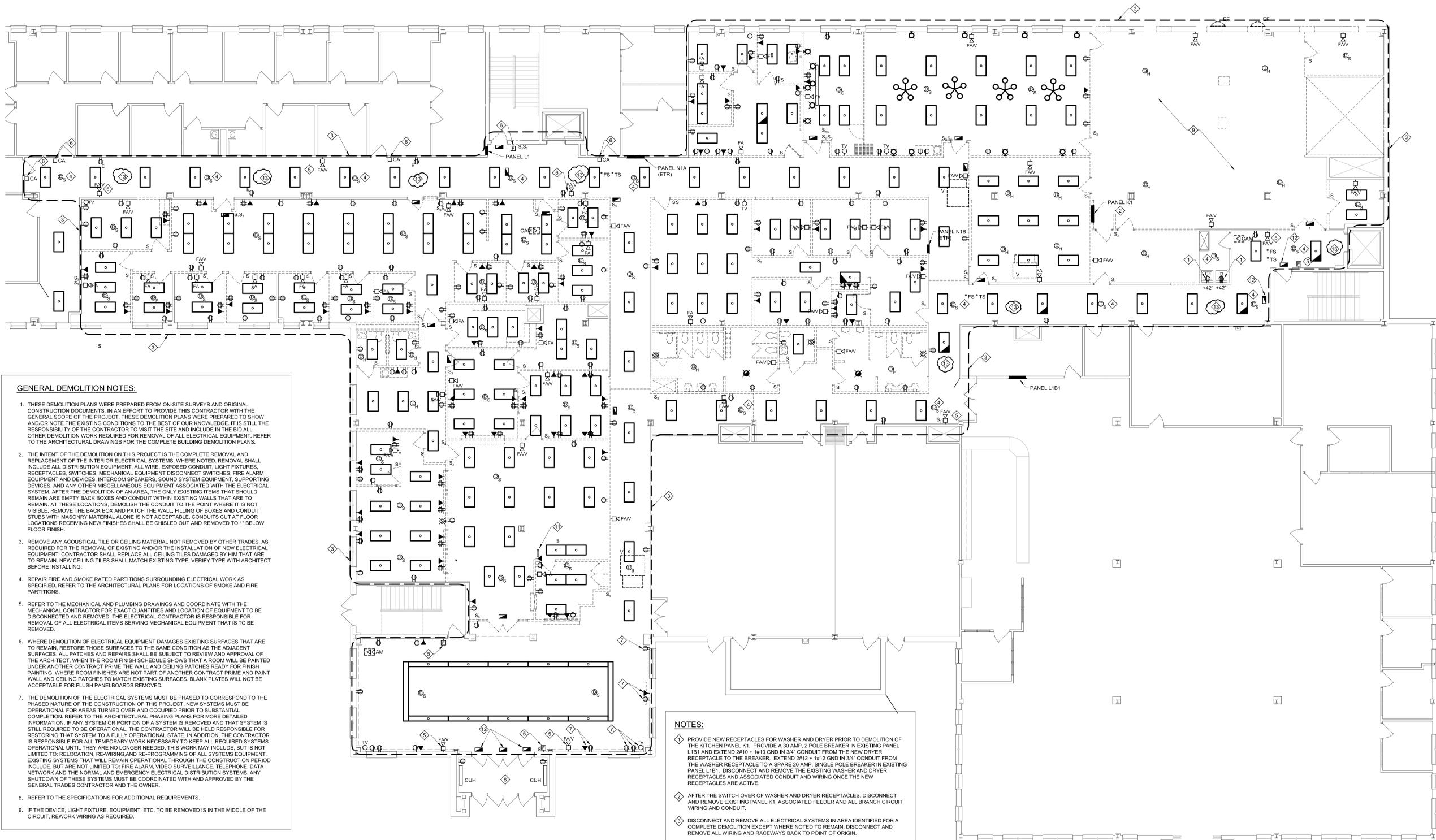
Drawn By DMH

Checked By --

Date 2014.06.30

SK- A301.01

JOB NO. 14-008



**GENERAL DEMOLITION NOTES:**

1. THESE DEMOLITION PLANS WERE PREPARED FROM ON-SITE SURVEYS AND ORIGINAL CONSTRUCTION DOCUMENTS. IN AN EFFORT TO PROVIDE THIS CONTRACTOR WITH THE GENERAL SCOPE OF THE PROJECT, THESE DEMOLITION PLANS WERE PREPARED TO SHOW AND/OR NOTE THE EXISTING CONDITIONS TO THE BEST OF OUR KNOWLEDGE. IT IS STILL THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND INCLUDE IN THE BID ALL OTHER DEMOLITION WORK REQUIRED FOR REMOVAL OF ALL ELECTRICAL EQUIPMENT. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE COMPLETE BUILDING DEMOLITION PLANS.
2. THE INTENT OF THE DEMOLITION ON THIS PROJECT IS THE COMPLETE REMOVAL AND REPLACEMENT OF THE INTERIOR ELECTRICAL SYSTEMS, WHERE NOTED. REMOVAL SHALL INCLUDE ALL DISTRIBUTION EQUIPMENT, ALL WIRE, EXPOSED CONDUIT, LIGHT FIXTURES, RECEPTACLES, SWITCHES, MECHANICAL EQUIPMENT DISCONNECT SWITCHES, FIRE ALARM EQUIPMENT AND DEVICES, INTERCOM SPEAKERS, SOUND SYSTEM EQUIPMENT, SUPPORTING DEVICES, AND ANY OTHER MISCELLANEOUS EQUIPMENT ASSOCIATED WITH THE ELECTRICAL SYSTEM. AFTER THE DEMOLITION OF AN AREA, THE ONLY EXISTING ITEMS THAT SHOULD REMAIN ARE EMPTY BACK BOXES AND CONDUIT WITHIN EXISTING WALLS THAT ARE TO REMAIN. AT THESE LOCATIONS, DEMOLISH THE CONDUIT TO THE POINT WHERE IT IS NOT VISIBLE, REMOVE THE BACK BOX AND PATCH THE WALL, FILLING OF BOXES AND CONDUIT STUBS WITH MASONRY MATERIAL ALONE IS NOT ACCEPTABLE. CONDUITS CUT AT FLOOR LOCATIONS RECEIVING NEW FINISHES SHALL BE CHISELED OUT AND REMOVED TO 1" BELOW FLOOR FINISH.
3. REMOVE ANY ACOUSTICAL TILE OR CEILING MATERIAL NOT REMOVED BY OTHER TRADES, AS REQUIRED FOR THE REMOVAL OF EXISTING AND/OR THE INSTALLATION OF NEW ELECTRICAL EQUIPMENT. CONTRACTOR SHALL REPLACE ALL CEILING TILES DAMAGED BY HIM THAT ARE TO REMAIN. NEW CEILING TILES SHALL MATCH EXISTING TYPE. VERIFY TYPE WITH ARCHITECT BEFORE INSTALLING.
4. REPAIR FIRE AND SMOKE RATED PARTITIONS SURROUNDING ELECTRICAL WORK AS SPECIFIED. REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF SMOKE AND FIRE PARTITIONS.
5. REFER TO THE MECHANICAL AND PLUMBING DRAWINGS AND COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT QUANTITIES AND LOCATION OF EQUIPMENT TO BE DISCONNECTED AND REMOVED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL ELECTRICAL ITEMS SERVING MECHANICAL EQUIPMENT THAT IS TO BE REMOVED.
6. WHERE DEMOLITION OF ELECTRICAL EQUIPMENT DAMAGES EXISTING SURFACES THAT ARE TO REMAIN, RESTORE THOSE SURFACES TO THE SAME CONDITION AS THE ADJACENT SURFACES. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT. WHEN THE ROOM FINISH SCHEDULE SHOWS THAT A ROOM WILL BE PAINTED UNDER ANOTHER CONTRACT PRIME THE WALL AND CEILING PATCHES READY FOR FINISH PAINTING. WHERE ROOM FINISHES ARE NOT PART OF ANOTHER CONTRACT PRIME AND PAINT WALL AND CEILING PATCHES TO MATCH EXISTING SURFACES. BLANK PLATES WILL NOT BE ACCEPTABLE FOR FLUSH PANELBOARDS REMOVED.
7. THE DEMOLITION OF THE ELECTRICAL SYSTEMS MUST BE PHASED TO CORRESPOND TO THE PHASED NATURE OF THE CONSTRUCTION OF THIS PROJECT. NEW SYSTEMS MUST BE OPERATIONAL FOR AREAS TURNED OVER AND OCCUPIED PRIOR TO SUBSTANTIAL COMPLETION. REFER TO THE ARCHITECTURAL PHASING PLANS FOR MORE DETAILED INFORMATION. IF ANY SYSTEM OR PORTION OF A SYSTEM IS REMOVED AND THAT SYSTEM IS STILL REQUIRED TO BE OPERATIONAL, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR RESTORING THAT SYSTEM TO A FULLY OPERATIONAL STATE. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORK NECESSARY TO KEEP ALL REQUIRED SYSTEMS OPERATIONAL UNTIL THEY ARE NO LONGER NEEDED. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO: RELOCATION, RE-WIRING, AND RE-PROGRAMMING OF ALL SYSTEMS EQUIPMENT. EXISTING SYSTEMS THAT WILL REMAIN OPERATIONAL THROUGH THE CONSTRUCTION PERIOD INCLUDE, BUT ARE NOT LIMITED TO: FIRE ALARM, VIDEO SURVEILLANCE, TELEPHONE, DATA NETWORK AND THE NORMAL AND EMERGENCY ELECTRICAL DISTRIBUTION SYSTEMS. ANY SHUTDOWN OF THESE SYSTEMS MUST BE COORDINATED WITH AND APPROVED BY THE GENERAL TRADES CONTRACTOR AND THE OWNER.
8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. IF THE DEVICE, LIGHT FIXTURE, EQUIPMENT, ETC. TO BE REMOVED IS IN THE MIDDLE OF THE CIRCUIT, REWORK WIRING AS REQUIRED.

**OVERALL PLAN - DEMOLITION**

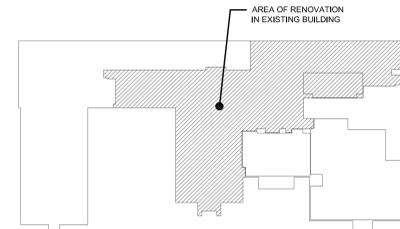
SCALE: 1/8"=1'-0"

**DEMOLITION NOTES:**

1. RESPECTIVE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY DEMOLITION WORK (EVEN IF NOT SHOWN ON THE PLANS) NECESSARY FOR COMPLETION OF PROJECT. THIS INCLUDES REMOVAL OF ANY EQUIPMENT AND MATERIALS THAT WILL NO LONGER BE UTILIZED AFTER COMPLETION OF THIS PROJECT.
2. EQUIPMENT THAT IS REMOVED SHALL BE TURNED OVER TO OWNER. IF OWNER DOES NOT WANT EQUIPMENT, IT SHALL BE DISPOSED OF PROPERLY BY RESPECTIVE CONTRACTOR.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADVANCE NOTICE AND COORDINATE ALL UTILITY SHUT DOWNS INCLUDING MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS THAT WILL IMPACT THE AREAS OF BUILDING OPERATIONS OUTSIDE OF WORK AREA WITH THE OWNER, PRIOR TO SYSTEM DISRUPTION AND/OR SHUT DOWN.
4. CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING AS REQUIRED TO MAINTAIN SERVICES IN ADJACENT AREAS DURING CONSTRUCTION.

**NOTES:**

- ◆ PROVIDE NEW RECEPTACLES FOR WASHER AND DRYER PRIOR TO DEMOLITION OF THE KITCHEN PANEL K1. PROVIDE A 30 AMP, 2 POLE BREAKER IN EXISTING PANEL L1B1 AND EXTEND 2#10 + 1#10 GND IN 3/4" CONDUIT FROM THE NEW DRYER RECEPTACLE TO THE BREAKER. EXTEND 2#12 - 1#12 GND IN 3/4" CONDUIT FROM THE WASHER RECEPTACLE TO A SPARE 20 AMP, SINGLE POLE BREAKER IN EXISTING PANEL L1B1. DISCONNECT AND REMOVE THE EXISTING WASHER AND DRYER RECEPTACLES AND ASSOCIATED CONDUIT AND WIRING ONCE THE NEW RECEPTACLES ARE ACTIVE.
- ◆ AFTER THE SWITCH OVER OF WASHER AND DRYER RECEPTACLES, DISCONNECT AND REMOVE EXISTING PANEL K1, ASSOCIATED FEEDER AND ALL BRANCH CIRCUIT WIRING AND CONDUIT.
- ◆ DISCONNECT AND REMOVE ALL ELECTRICAL SYSTEMS IN AREA IDENTIFIED FOR A COMPLETE DEMOLITION EXCEPT WHERE NOTED TO REMAIN. DISCONNECT AND REMOVE ALL WIRING AND RACEWAYS BACK TO POINT OF ORIGIN.
- ◆ REMOVE EXISTING SMOKE DETECTOR TO ACCOMMODATE CEILING REPLACEMENT AND REINSTALL IN NEW CEILING.
- ◆ EXISTING FIRE ALARM DEVICE TO REMAIN.
- ◆ EXISTING CARD READER TO REMAIN.
- ◆ EXISTING DEVICES TO REMAIN.
- ◆ NO WORK IN EXISTING VESTIBULE ALL LIGHTING AND DEVICES TO REMAIN.
- ◆ EXISTING KITCHEN PARTIALLY DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL ITEMS STILL REMAINING.
- ◆ EXISTING SWITCHES TO REMAIN FOR RE-USE.
- ◆ FIRE ALARM LCD ANNUNCIATOR TO BE RELOCATED. SEE DRAWING E400.
- ◆ EXISTING EXIT SIGN TO REMAIN.
- ◆ PROVIDE TEMPORARY SUPPORT FOR EXISTING LIGHTING AND CEILING MOUNTED ITEMS IN THIS CORRIDOR AFTER CEILING HAS BEEN REMOVED. REINSTALL EXISTING ITEMS IN NEW CEILING AS INDICATED ON E100 AND E200



**KEY PLAN**  
NOT TO SCALE

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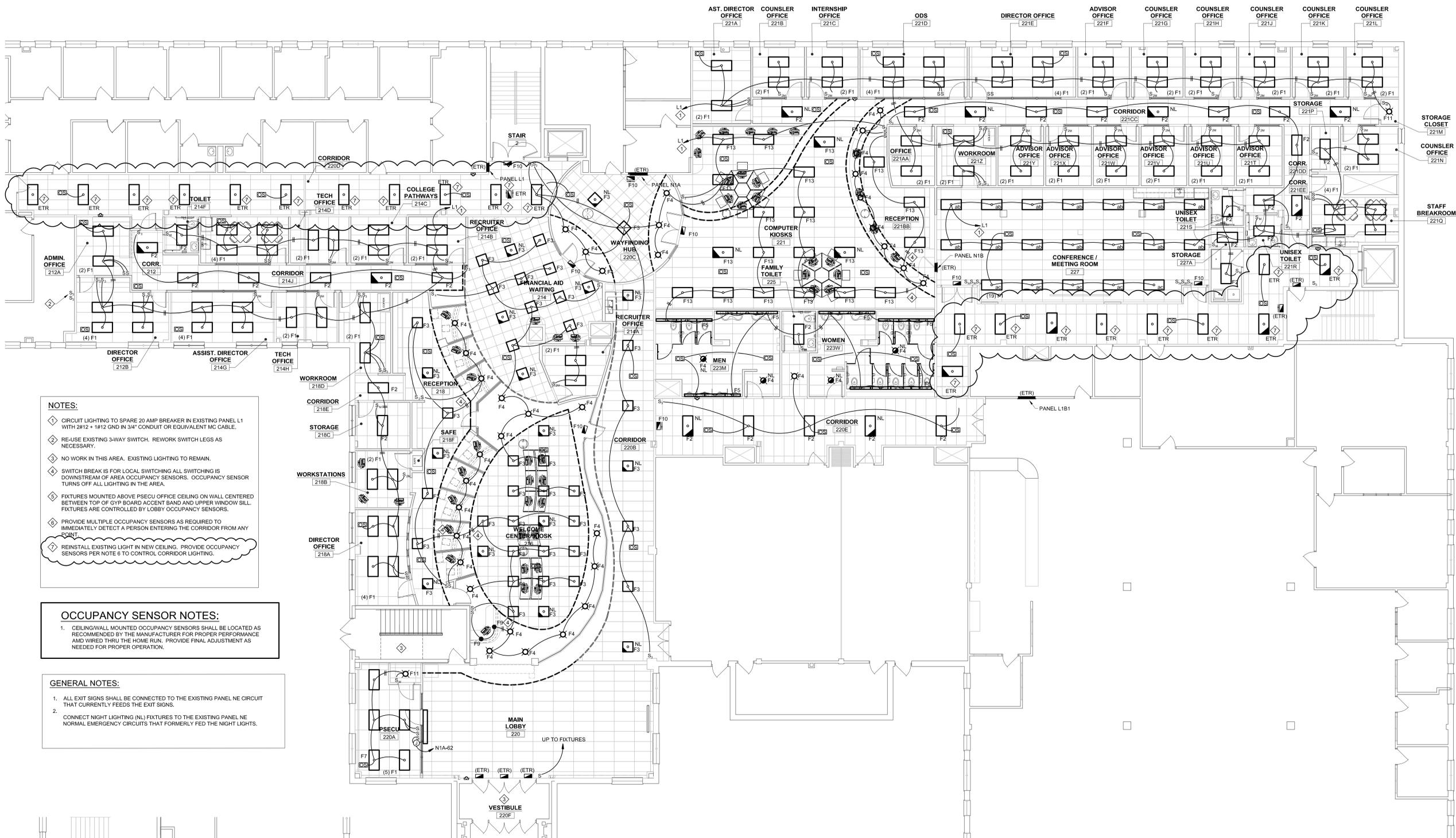
**MOORE ENGINEERING COMPANY**  
3637 Columbia Avenue  
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**OVERALL PLAN - DEMOLITION**  
PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER RENOVATION**  
HARRISBURG AREA COMMUNITY COLLEGE  
LANSFORD BLVD., LANCASTER, PENNSYLVANIA 17602  
EAST LANCASTER TOWNSHIP

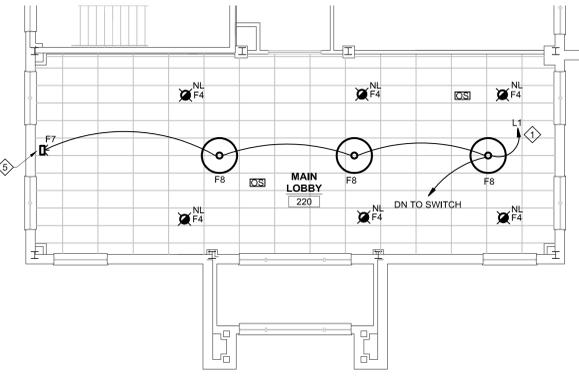
BY	DMH
RELEASE DESCRIPTION	DESIGN DEVELOPMENT SET ISSUED FOR OWNER REVIEW ISSUED FOR BID ADVERTISING
DATE	05.02.14 06.05.14 06.02.14 07.01.14
NO.	
Drawn By	DMH
Checked By	
Date	06/12/2014
<b>E001</b>	
JOB NO. 14008.00/14030	



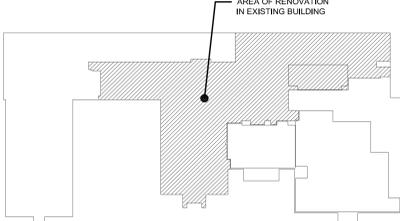
- NOTES:**
- ◇ CIRCUIT LIGHTING TO SPARE 20 AMP BREAKER IN EXISTING PANEL L1 WITH 2#12 + 1#12 GND IN 3/4" CONDUIT OR EQUIVALENT MC CABLE.
  - ◇ RE-USE EXISTING 3-WAY SWITCH. REWORK SWITCH LEGS AS NECESSARY.
  - ◇ NO WORK IN THIS AREA. EXISTING LIGHTING TO REMAIN.
  - ◇ SWITCH BREAK IS FOR LOCAL SWITCHING ALL SWITCHING IS DOWNSTREAM OF AREA OCCUPANCY SENSORS. OCCUPANCY SENSOR TURNS OFF ALL LIGHTING IN THE AREA.
  - ◇ FIXTURES MOUNTED ABOVE PSECU OFFICE CEILING ON WALL CENTERED BETWEEN TOP OF GYP BOARD ACCENT BAND AND UPPER WINDOW SILL. FIXTURES ARE CONTROLLED BY LOBBY OCCUPANCY SENSORS.
  - ◇ PROVIDE MULTIPLE OCCUPANCY SENSORS AS REQUIRED TO IMMEDIATELY DETECT A PERSON ENTERING THE CORRIDOR FROM ANY POINT.
  - ◇ REINSTALL EXISTING LIGHT IN NEW CEILING. PROVIDE OCCUPANCY SENSORS PER NOTE # TO CONTROL CORRIDOR LIGHTING.

- OCCUPANCY SENSOR NOTES:**
1. CEILING/WALL MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED AS RECOMMENDED BY THE MANUFACTURER FOR PROPER PERFORMANCE AND WIRED THRU THE HOME RUN. PROVIDE FINAL ADJUSTMENT AS NEEDED FOR PROPER OPERATION.

- GENERAL NOTES:**
1. ALL EXIT SIGNS SHALL BE CONNECTED TO THE EXISTING PANEL NE CIRCUIT THAT CURRENTLY FEEDS THE EXIT SIGNS.
  2. CONNECT NIGHT LIGHTING (NL) FIXTURES TO THE EXISTING PANEL NE NORMAL EMERGENCY CIRCUITS THAT FORMERLY FED THE NIGHT LIGHTS.



**OVERALL PLAN - NEW LIGHTING PLAN**  
SCALE: 1/8"=1'-0"



**KEY PLAN**  
NOT TO SCALE

**PARTIAL UPPER LEVEL - NEW LIGHTING PLAN**  
SCALE: 1/8"=1'-0"

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P: (724) 265-1343  
F: (724) 265-2443  
www.mooreengineering.com

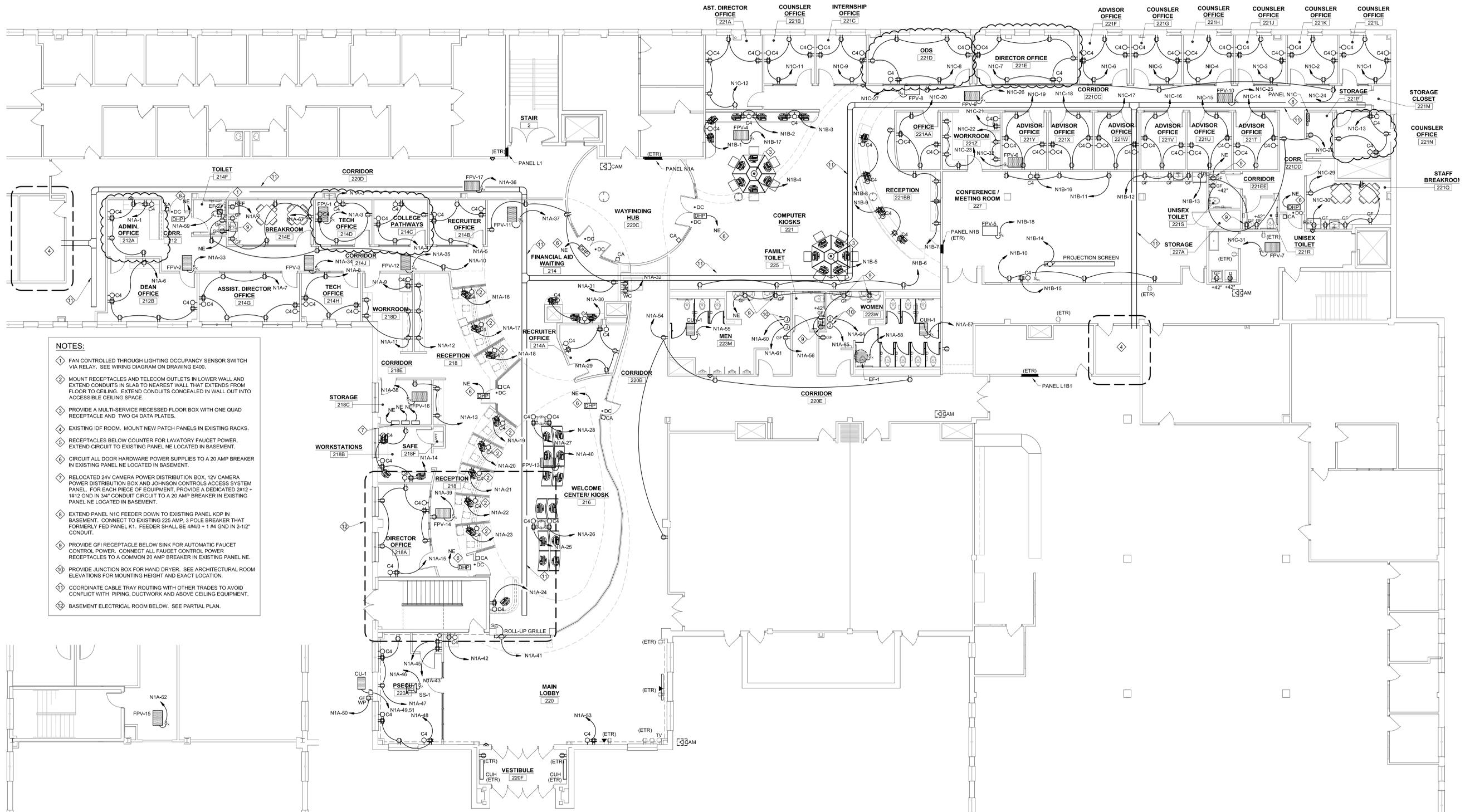
**BH**  
**ARCHITECTURE**

**OVERALL PLAN - LIGHTING**  
PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER RENOVATION**  
HARRISBURG AREA COMMUNITY COLLEGE  
BUILDING: LANCASTER, PENNSYLVANIA 17802  
EAST LANCASTER TOWNSHIP

NO.	DATE	RELEASE DESCRIPTION	BY
01	05.02.14	DESIGN DEVELOPMENT SET	
02	06.05.14	ISSUED FOR OWNER REVIEW	
03	06.12.14	ISSUED FOR BID	
04	07.21.14	ADDENDUM #2	

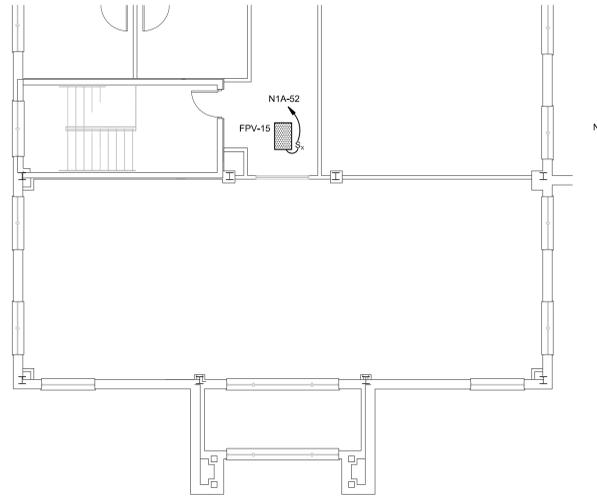
Drawn By: DJB  
Checked By:  
Date: 06/12/2014

**E100**  
JOB NO. 14008.00/14030

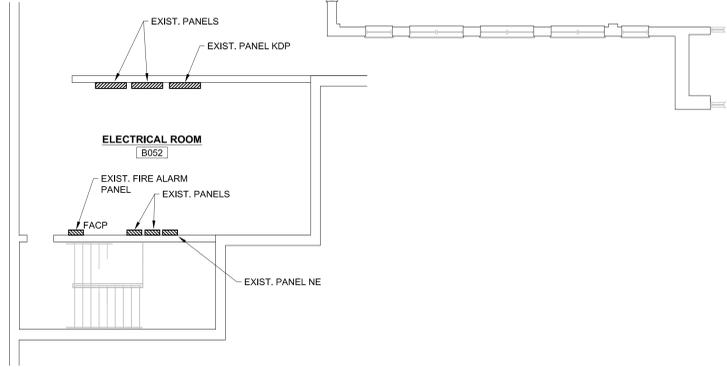


- NOTES:**
- ◆ FAN CONTROLLED THROUGH LIGHTING OCCUPANCY SENSOR SWITCH VIA RELAY. SEE WIRING DIAGRAM ON DRAWING E400.
  - ◆ MOUNT RECEPTACLES AND TELECOM OUTLETS IN LOWER WALL AND EXTEND CONDUITS IN SLAB TO NEAREST WALL THAT EXTENDS FROM FLOOR TO CEILING. EXTEND CONDUITS CONCEALED IN WALL OUT INTO ACCESSIBLE CEILING SPACE.
  - ◆ PROVIDE A MULTI-SERVICE RECESSED FLOOR BOX WITH ONE QUAD RECEPTACLE AND TWO C4 DATA PLATES.
  - ◆ EXISTING IDF ROOM. MOUNT NEW PATCH PANELS IN EXISTING RACKS.
  - ◆ RECEPTACLES BELOW COUNTER FOR LAVATORY FAUCET POWER. EXTEND CIRCUIT TO EXISTING PANEL NE LOCATED IN BASEMENT.
  - ◆ CIRCUIT ALL DOOR HARDWARE POWER SUPPLIES TO A 20 AMP BREAKER IN EXISTING PANEL NE LOCATED IN BASEMENT.
  - ◆ RELOCATED 24V CAMERA POWER DISTRIBUTION BOX, 12V CAMERA POWER DISTRIBUTION BOX AND JOHNSON CONTROLS ACCESS SYSTEM PANEL. FOR EACH PIECE OF EQUIPMENT, PROVIDE A DEDICATED 20/12 \* 1#12 GND IN 3/4" CONDUIT CIRCUIT TO A 20 AMP BREAKER IN EXISTING PANEL NE LOCATED IN BASEMENT.
  - ◆ EXTEND PANEL N1C FEEDER DOWN TO EXISTING PANEL KDP IN BASEMENT. CONNECT TO EXISTING 225 AMP, 3 POLE BREAKER THAT FORMERLY FED PANEL K1. FEEDER SHALL BE 4#4/0 + 1 #4 GND IN 2-1/2" CONDUIT.
  - ◆ PROVIDE GFI RECEPTACLE BELOW SINK FOR AUTOMATIC FAUCET CONTROL POWER. CONNECT ALL FAUCET CONTROL POWER RECEPTACLES TO A COMMON 20 AMP BREAKER IN EXISTING PANEL NE.
  - ◆ PROVIDE JUNCTION BOX FOR HAND DRYER. SEE ARCHITECTURAL ROOM ELEVATIONS FOR MOUNTING HEIGHT AND EXACT LOCATION.
  - ◆ COORDINATE CABLE TRAY ROUTING WITH OTHER TRADES TO AVOID CONFLICT WITH PIPING, DUCTWORK AND ABOVE CEILING EQUIPMENT.
  - ◆ BASEMENT ELECTRICAL ROOM BELOW. SEE PARTIAL PLAN.

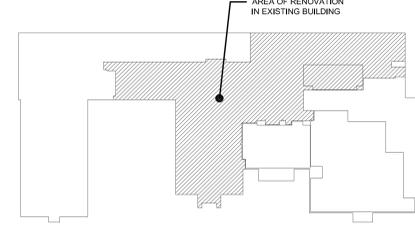
**OVERALL PLAN - NEW ELECTRICAL PLAN**  
SCALE: 1/8"=1'-0"



**PARTIAL UPPER LEVEL - NEW ELECTRICAL PLAN**  
SCALE: 1/8"=1'-0"



**PARTIAL BASEMENT - ELECTRICAL PLAN**  
SCALE: 1/8"=1'-0"



**KEY PLAN**  
NOT TO SCALE

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DATE OF REVISION FROM REPRODUCTION PROCEDURES: DIMENSIONS SHALL NOT BE DIMENSIONS AS SHOWN ARE VALID.

CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE BEFORE PROCEEDING WITH THE WORK.

BEERS + HOFFMAN  
20A East Roseville Road  
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P: (717) 298-3000  
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More Engineering Company  
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Lancaster, Pennsylvania 17603  
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www.moreengineering.com

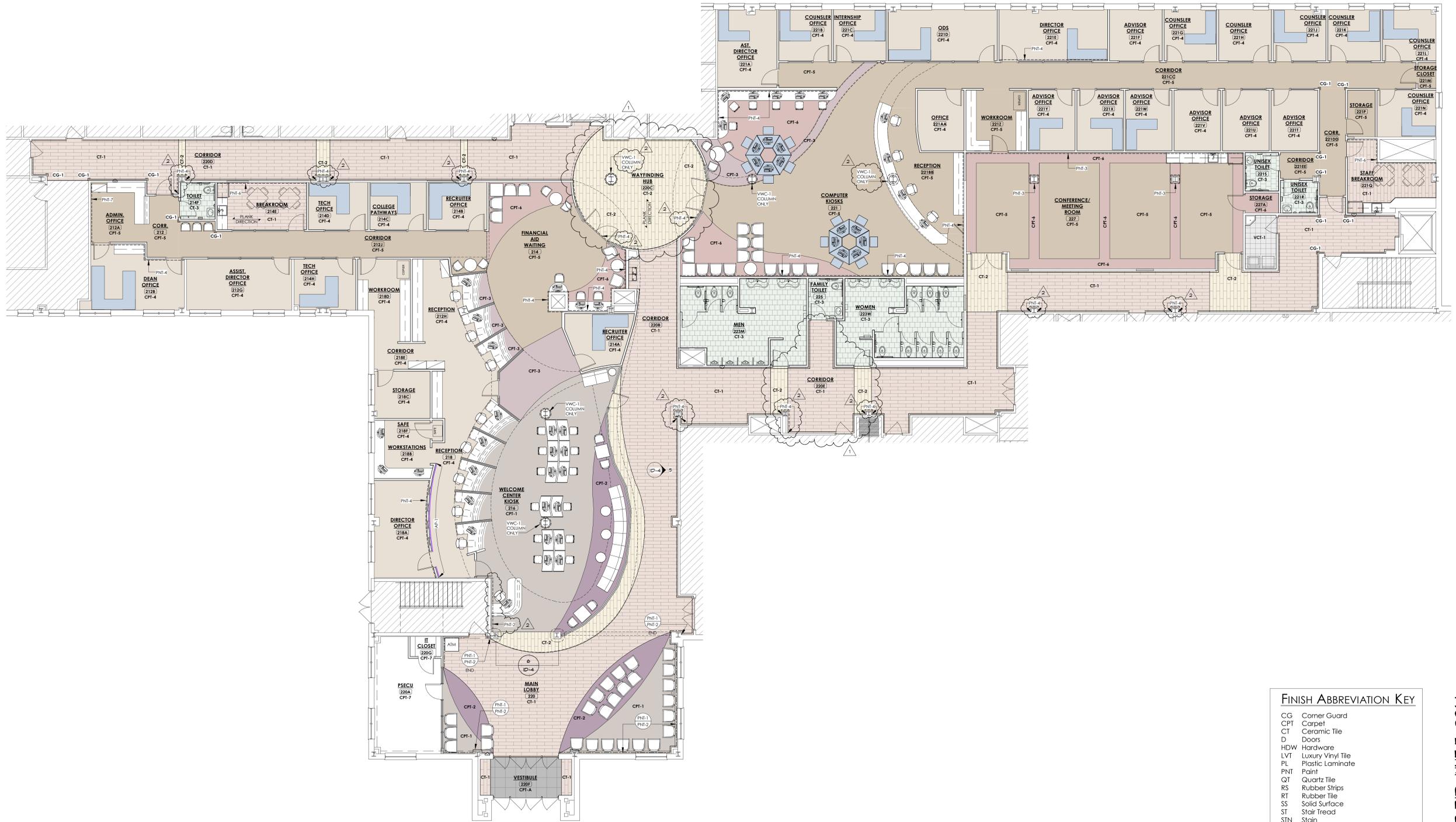
**BEERS + HOFFMAN**  
ARCHITECTURE



**OVERALL PLAN - POWER**  
PROPOSED RENOVATIONS TO THE:  
**HACC WELCOME CENTER RENOVATION**

HARRISBURG AREA COMMUNITY COLLEGE  
LABORER, LANCASTER, PENNSYLVANIA, 17602  
EAST LANCASTER TOWNSHIP

RELEASE DESCRIPTION	BY
DESIGN DEVELOPMENT SET ISSUED FOR OWNER REVIEW ISSUED FOR BID ADDENDUM #2	
DATE	
05.02.14	
06.05.14	
06.12.14	
07.21.14	
NO.	
Drawn By	DJB
Checked By	
Date	06/12/2014
<b>E200</b>	
JOB NO. 14008.00/14030	



1 FLOOR PLAN - FLOOR FINISHES  
 ID-1 1/8" = 1'-0"

**FINISH ABBREVIATION KEY**

CG	Corner Guard
CPT	Carpet
CT	Ceramic Tile
D	Doors
HDW	Hardware
LVT	Luxury Vinyl Tile
PL	Plastic Laminate
PNT	Paint
QT	Quartz Tile
RS	Rubber Strips
RT	Rubber Tile
SS	Solid Surface
ST	Stair Tread
STN	Stain
SV	Sheet Vinyl
TB	Tack Board
VCT	Vinyl Composition Tile
VWC	Vinyl Wallcovering
WB	Wall Base

PROPOSED RENOVATIONS FOR:  
**HACC WELCOME CENTER**  
 HARRISBURG AREA COMMUNITY COLLEGE  
 1641 OLD PHILADELPHIA PIKE, LANCASTER, PENNSYLVANIA 17602

DRAWN BY:	G.H.	DATE:	6/5/14
CHECKED BY:			
SCALE:	AS NOTED		
REVISIONS:			
DATE:	6/5/14	DESCRIPTION:	GCI ADDENDUM #1 PER B&H
DATE:	7/8/14	DESCRIPTION:	GCI ADDENDUM #2 PER B&H

ISSUED FOR BID JUNE 5, 2014

11  
 FLOOR PLAN

**ID-1**

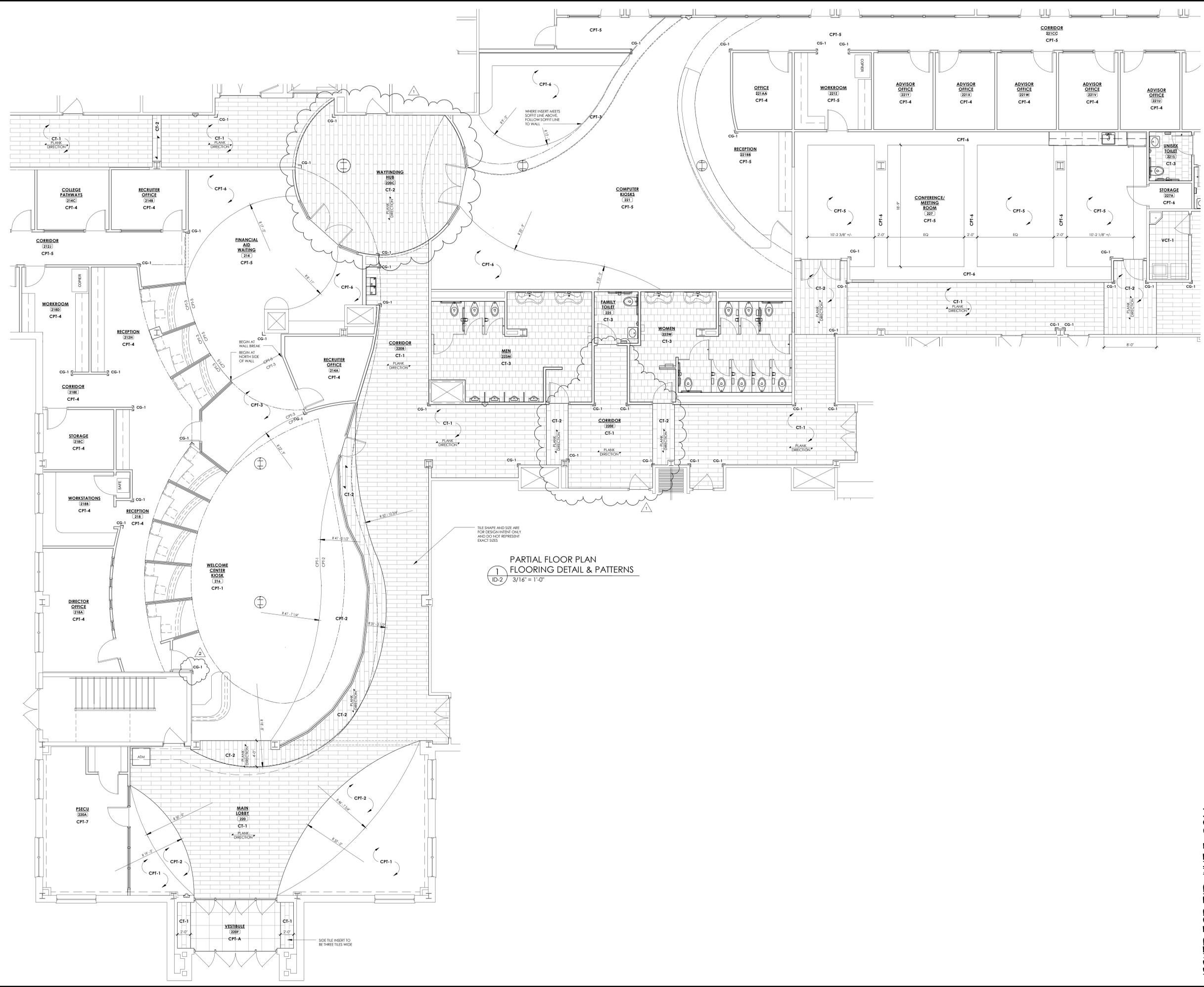
DRAWN BY:	DATE:
G.H.	6/5/14
CHECKED BY:	
LG & C.D.	
SCALE:	
AS NOTED	

REVISIONS	
DATE	DESCRIPTION
6/20/14	GCI ADDENDUM #1 PER B&A
7/8/14	GCI ADDENDUM #2 PER B&A

**FLOORING PATTERN & LAYOUT**

**ID-2**

ISSUED FOR BID JUNE 5, 2014



## GENERAL NOTES

- REMARKS**
- The plans and finish schedules for the referenced project are the sole intellectual property of Godshall Commercial Interiors and shall not be used for any other project without the written consent of GCI.
  - All work, construction, and materials shall comply with all provisions of the International Building Code 2012. It is the responsibility of anyone supplying labor or material or both, to bring to the attention of the Designer and Owner any discrepancies or conflict between the requirements of the Code and the Drawings.
  - All dimensions shall be field verified by General Contractor prior to start of construction and throughout construction. Godshall Commercial Interiors shall be notified of any discrepancies that would affect the design of the space. Any questions or discrepancies on the drawing or in specifications shall be directed to GCI prior to construction.
  - All dimensions are finished dimensions unless noted otherwise.
  - Interior dimensions are from the face of finish to the face of finish, unless noted otherwise.
  - Submit Shop Drawings for review and concurrence of all interior components, including but not limited to, casework, millwork, interior doors, borrowed lites, etc.
  - G.C. shall be responsible for installing all materials as specified on drawings. If site conditions present problems, contractor shall notify materials as directed by GCI.
  - All products specified in this ID Plan Set shall be installed, including surface preparation, installation materials & methods, cleaning, and finish preparation, in accordance with the manufacturer's written installation instructions to ensure all product warranty coverage.
  - Product Installation & final surface preparation of all flooring products shown on this plan shall follow manufacturer's written installation instructions to ensure all product warranty coverage.
  - Where "or equal" is allowable, sub-contractor shall submit proposed substitution to this office, allowing a minimum of 5 business days for this office to review and approve and with adequate lead time for order/installation process to occur within project timeline as set forth by the General Contractor.
  - Wherever existing wood finishes occur that are remaining, these finishes shall be cleaned and polished as part of the finished interior. Coordinate this ID Plan Set with Architectural Drawing Set for specific reference.
  - Discrepancies shall be brought to the attention of this office.
  - Provide blocking as required to support countertops, shelving, cabinetry, window treatments, etc.
  - This ID Plan Set shall be coordinated with the Construction Document set issued by MEP engineers and Architect. If discrepancies occur, contact this office immediately.
  - North directional symbol is not true building orientation, but indicated wall orientation for room finish schedule.

- WALLS**
- Note dashed or dash/dot lines as accent colors or materials in a particular space or room.
  - CMU Masonry Walls shall receive epoxy paint as noted in Room Finish Legend.
  - All Mirror Spaces, i.e. closets and alcoves, shall have the same finish as the rooms in which they are located unless otherwise noted in RFS.
  - Where Balconies occur - paint underside to match ceiling unless otherwise noted in RFS.
  - Corner Guards: L-shaped locations shall be noted on floor plan.
  - Where ceramic tile occurs: All Walls behind ceramic tile installations shall have the appropriate backing/substrate as recommended by the tile manufacturer specifications.

- FLOORS & WALL BASE**
- All intersections of different flooring types shall receive transition pieces as specified in this plan set unless otherwise noted in Specific Notes.
  - Flooring patterns shall be detailed on floor plans and, if required, enlarged details in this ID Plan Set.
  - Intersections of Flooring Materials in doorways shall occur under centers of door.
  - At all intersections of one carpet to another, particularly in doorways, the seams shall be seam sealed.
  - Center of VCT grid installations from center point room - except where noted.
  - Flooring Contractor shall verify all room dimensions and existing floor conditions on-site prior to submitting final pricing to owner, and shall access site to note any and all conditions of existing floor material removal, floor surface preparation/repair.
  - Flooring Contractor shall verify room dimensions/ site conditions prior to installation, and shall make recommendations to Owner with regard to removal of existing floors, floor surface preparation and floor repair if required.
  - Vinyl sheet material shall receive heat-welded seams in coordinating heat weld rod color as recommended by manufacturer unless otherwise noted.

- EXISTING CONDITIONS**
- All existing locations not scheduled for new room finishes, where renovation work occurs, provide new finishes to match adjacent surfaces. Where existing walls are patched, repaired or in-filled, paint entire existing wall. Where acoustical ceilings are impacted, rework ceiling grid and provide new ceiling tiles as required.

- CEILING**
- All gypsum board & cement board ceilings shall be painted R.M. ceiling white by Benjamin Moore Points, unless otherwise noted.
  - Center of VCT Grid installations from center of room, unless noted otherwise in plan set.
  - Ceiling specification information refer to either the Architectural Plan Set and/or this Interior Design Plan Set for overall detail coordination. Paint coats for ceilings/soffits/bulkheads shall be found in the ID Plan Set.

- DOORS**
- Door Hardware shall be specified in Architectural Drawing Set.

- COAT RACKS/HOOKS**
- Total linear feet of Coat Rack shall be divided, 1/3 shall comply with ADA with Top Leading Edge at 48" A.F.F. and 2/3 shall be regular height. Locker Rooms and Toilet Rooms shall have 4 coat/rack hooks at 48" A.F.F.

- MILLWORK**
- Coordinate & field verify all plumbing/ electrical requirements in countertops prior to installation. Holes in solid surface countertops are to be sized during installation. Grout mats shall be 2" plastic type with removable covers unless otherwise specified; use color closest to counter top color.
  - Plastic laminate support brackets, leg panels, & end panels for countertops shall match base cabinetry unless otherwise noted.
  - For millwork/casework specifications and locations refer to Architectural Drawing Set. This ID Plan Set contains a millwork legend listing specific finishes and general locations.
  - Where existing stained casework/millwork is to remain, it shall be cleaned and polished. Intent is to ensure final appearance of wood to be equal to finish quality of new wood stain.
  - At all occurrences of custom millwork & casework, General Contractor shall supply detailed shop drawings for review by this office or architect prior to work proceeding.

- WINDOW TREATMENTS**
- Window Treatment supplier shall site verify all window openings and on-site conditions prior to ordering blinds or window treatments as specified in this plan set. Any discrepancies between GCI drawings and the actual site conditions shall be brought to the attention of this office immediately.

## SPECIFIC NOTES

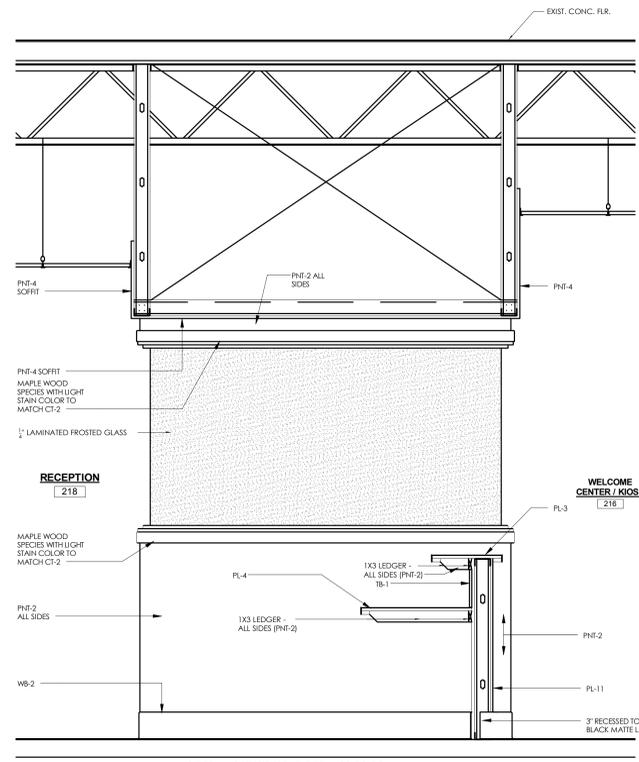
- Flooring transitions shall be as follows: **Main Lobby & Vestibule** - provide appropriate underlayment to ensure equal surface height of ceramic tile and carpet tile floors. Use a Schluter RENO-TK Stainless Steel transition piece between the two flooring types. Use RENO-TK with special radius. **Ceramic to VCT** - Schluter RENO-TK Stainless Steel - sloped. **Ceramic to VCT** - Schluter RENO-TK Stainless Steel - sloped. Flooring Contractor shall verify sizes/widths required in field. Main Lobby - existing window sills/ aprons shall be replaced with PL-8.
- Vestibule 220F shall receive new floor finishes only. All other finishes shall remain as existing.
- Typical Finish Schedule** - Solid black line indicates where typical corridor finishes occur. Typical finish is a crash rail with PNT-1 above and PNT-4 below. Refer to detail S/D-4. Centerline (long dash/ short dash) indicates wall condition lobby 220 only. Refer to Floor Plan 1/D-1 for specific paint colors. Refer to elevation detail R/D-4 for location of chair rail piece dividing two paint colors.
- In all corridors on walls where crash rail does not occur, wall surface shall be PNT-1.
- Center Storage closet and paint color specified on construction documents.
- Connection process. Match all existing finishes.

## MILLWORK SCHEDULE

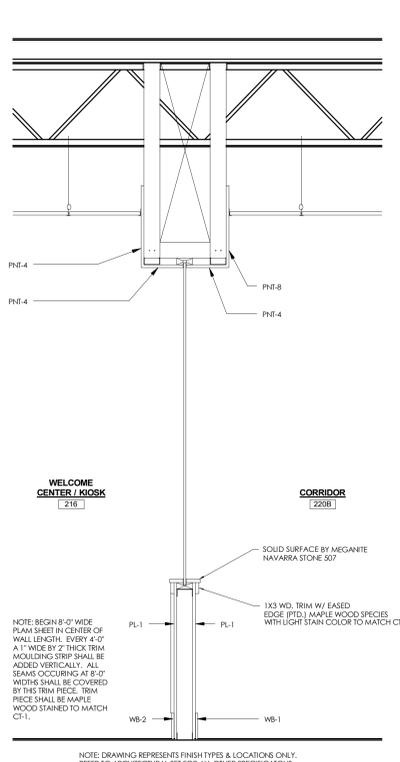
No.	Room Name	Base & Wall Cabinets	Countertops & Splashes	Transaction Counter	Support Brackets / Panel	Tackboard	Hardware	Remarks
212A	ADMIN. OFFICE	PL-5	PL-4	PL-3	PL-4	TB-1	HDW-1	COUNTER FACE PL-5
212B	DEAN OFFICE	PL-5	PL-4	N/A	N/A	TB-1	HDW-2	
214	RECEPTION	PL-11	PL-7	N/A	PL-7	TB-1	HDW-1	
214H	FINANCIAL AID & WAITING - COMPUTER STATIONS	N/A	PL-10	N/A	PL-10	N/A	N/A	
214	FINANCIAL AID & WAITING - INFO DESK	PL-5	PL-4	PL-3	PL-4	TB-1	HDW-1	TRANSACTION TOP EDGE TO BE CRESCENT. REFER TO ID-4. COUNTER FACE PL-5.
214E	BREAKROOM	PL-12	PL-2	N/A	N/A	N/A	HDW-1	
216	WELCOME CENTER/KIOSK - WELCOME DESK	PL-5	PL-4	PL-3	PL-4	TB-1	HDW-1	TRANSACTION TOP EDGE TO BE CRESCENT. REFER TO ID-4. COUNTER FACE PL-5.
216	WELCOME CENTER/KIOSK - INFO DESK	PL-5	PL-4	PL-3	PL-4	TB-1	HDW-1	TRANSACTION TOP EDGE TO BE CRESCENT. REFER TO ID-4. COUNTER FACE PL-5.
218	RECEPTION - WORK AREA	PL-11	PL-7	N/A	PL-7	TB-1	HDW-1	
218B	WORKSTATIONS	PL-11	PL-7	N/A	PL-7	TB-1	HDW-1	
218D	WORKROOM	PL-11	PL-7	N/A	PL-7	TB-1	HDW-1	
221	COMPUTER KIOSKS	N/A	PL-10	N/A	PL-10	N/A	N/A	
221B	RECEPTION - INFO DESK	PL-5	PL-4	PL-3	PL-4	TB-1	HDW-1	TRANSACTION TOP EDGE TO BE CRESCENT. REFER TO ID-4. COUNTER FACE PL-5.
221B	RECEPTION - WORK STATION	PL-5	PL-4	N/A	N/A	TB-1	HDW-1	
221Q	STAFF BREAKROOM	PL-12	PL-2	N/A	N/A	N/A	HDW-1	
221Z	WORKROOM	PL-11	PL-7	N/A	PL-7	TB-1	HDW-1	
227	CONFERENCE/ MEETING ROOM	PL-9	PL-8	N/A	PL-9	N/A	HDW-2	

## ROOM FINISH SCHEDULE

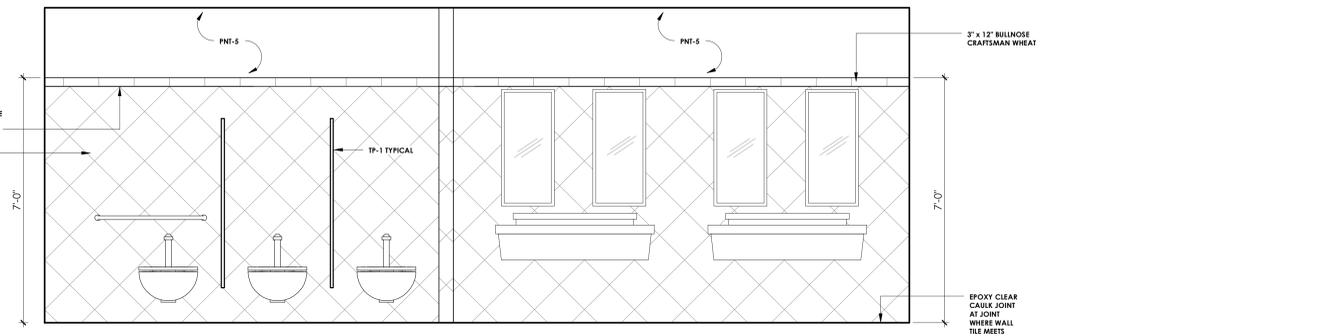
No.	Room	Room Name	Floor	Base	Trim	Walls								Ceiling		Remarks
						North	East	South	West	Soffit	Finish	Height				
212	CORR.		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	A.C.T.	9'-0"	BULKHEAD TO MATCH ADJACENT WALL
212A	ADMIN. OFFICE		WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	A.C.T.	9'-0"	BULKHEAD TO MATCH ADJACENT WALL
212B	DEAN OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	A.C.T.	9'-0"	BULKHEAD TO MATCH ADJACENT WALL
212G	ASSIST. DIRECTOR OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
212H	RECEPTION		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"			REFER TO ID4 FOR DESK DETAILS. BULKHEAD TO MATCH ADJACENT WALL	
212J	CORRIDOR		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
214	FINANCIAL AID WAITING		CPT-3	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	VERTICAL: PNT-4 UNDERSIDE: PNT-4	A.C.T.	9'-0"			REFER TO ID1 FOR FLOOR PATTERN. REFER TO ID1 FOR WALL ACCENT LOCATIONS. REFER TO ID4 FOR DESK DETAILS. HEIGHT FOR A.C.T. IS TARGET HEIGHT. FIELD ADJUST AS HIGH AS POSSIBLE.	
214A	RECRUITER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
214B	RECRUITER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
214C	COLLEGE PATHWAYS		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
214D	TECH OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
214E	BREAKROOM		CT-1	WB-1	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
214F	TOILET		CT-3	CT-3a	PNT-2a	CT-3a	CT-3a	CT-3a	CT-3a	CT-3a	A.C.T.	8'-0"			REFER TO ID4 FOR ELEVATIONS	
214H	TECH OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
216	WELCOME CENTER KIOSK		CPT-1	WB-2	PNT-2a	PNT-1	PL-1 PNT-1	PNT-1	PNT-1	VERTICAL: PNT-4 UNDERSIDE: PNT-4	A.C.T.	9'-0"			REFER TO ID1 FOR FLOOR PATTERN. REFER TO ID1 FOR WALL ACCENT LOCATIONS. REFER TO ID4 FOR LOBBY ELEVATION. COLUMNS SHALL BE VWC-1. HEIGHT FOR A.C.T. IS TARGET HEIGHT. FIELD ADJUST AS HIGH AS POSSIBLE.	
218	RECEPTION		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	VERTICAL: PNT-4 UNDERSIDE: PNT-4	A.C.T.	9'-0"			REFER TO ID1 FOR WALL ACCENT LOCATIONS. REFER TO ID4 FOR DESK DETAILS.	
218	RECEPTION - WORK AREA									N/A	A.C.T.	9'-0"			BULKHEAD TO MATCH ADJACENT WALL	
218A	DIRECTOR OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
218B	WORKSTATIONS		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
218C	STORAGE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	8'-0"				
218D	WORKROOM		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"			BULKHEAD TO MATCH ADJACENT WALL	
218E	CORRIDOR		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
218F	SAFE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	8'-0"				
220	MAIN LOBBY		CT-1	WB-1	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	VERTICAL: PNT-8 UNDERSIDE: PNT-4	A.C.T.	22'-0"			REFER TO ID1 FOR FLOOR PATTERN. REFER TO ID1 FOR WALL ACCENT LOCATIONS. REFER TO ID4 FOR LOBBY ELEVATION. REFER TO SPECIFIC NOTES.	
220B	CORRIDOR		CT-1	WB-1	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	VERTICAL: PNT-3 UNDERSIDE: PNT-4	A.C.T.	9'-0"			REFER TO ID1 FOR FLOOR PATTERN. REFER TO ID1 FOR ACCENT WALL LOCATIONS. REFER TO ID4 FOR SPECIFIC NOTES. HEIGHT FOR A.C.T. IS TARGET HEIGHT. FIELD ADJUST AS HIGH AS POSSIBLE.	
220C	WAYFINDING HUB		CT-1	WB-1	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	VERTICAL: PNT-3 UNDERSIDE: PNT-8	A.C.T.	9'-0"			REFER TO ID1 FOR FLOOR PATTERN. REFER TO ID1 FOR ACCENT WALL LOCATIONS. REFER TO SPECIFIC NOTES. HEIGHT FOR A.C.T. IS TARGET HEIGHT. FIELD ADJUST AS HIGH AS POSSIBLE.	
220D	CORRIDOR		CT-1	WB-1	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"			REFER TO ID1 FOR FLOOR PATTERN. REFER TO ID1 FOR ACCENT WALL LOCATIONS. REFER TO SPECIFIC NOTES. HEIGHT FOR A.C.T. IS TARGET HEIGHT. FIELD ADJUST AS HIGH AS POSSIBLE.	
220E	CORRIDOR		CT-1	WB-1	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"			REFER TO ID1 FOR FLOOR PATTERN. REFER TO ID1 FOR ACCENT WALL LOCATIONS. REFER TO SPECIFIC NOTES.	
220F	VESTIBULE		WO-CPT	WB-1	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	EX.	EX.				
221	COMPUTER KIOSKS		CPT-3	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	VERTICAL: PNT-4 UNDERSIDE: PNT-7	A.C.T.	9'-0"			HEIGHT FOR A.C.T. IS TARGET HEIGHT. FIELD ADJUST AS HIGH AS POSSIBLE.	
221A	ASST. DIRECTOR OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221AA	OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221B	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221B	RECEPTION		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	N/A	N/A	VERTICAL: PNT-7 UNDERSIDE: PNT-7	A.C.T.	9'-0"			BULKHEAD TO MATCH ADJACENT WALL	
221C	INTERNSHIP OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221CC	CORRIDOR		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221D	ODS		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221DD	CORR.		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"			BULKHEAD TO MATCH ADJACENT WALL	
221E	DIRECTOR OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221EE	CORRIDOR		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221F	ADVISOR OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221G	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221H	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221I	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221J	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221K	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221L	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221M	STORAGE CLOSET		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	8'-0"				
221N	COUNSLER OFFICE		CPT-4	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"				
221P	STORAGE		CPT-5	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	8'-0"				
221Q	STAFF BREAKROOM		CT-1	WB-2	PNT-2a	PNT-1	PNT-1	PNT-1	PNT-1	N/A	A.C.T.	9'-0"			BULKHEAD TO MATCH ADJACENT WALL	
221R	UNSEX TOILET		CT-3	CT-3a	PNT-2a	CT-3a	CT-3a	CT-3a	CT-3a	CT-3a	A.C.T.	8'-0"			REFER TO ID4 FOR ELEVATIONS	
221S	UNSEX TOILET		CT-3	CT-3a	PNT-2a	CT-3a	CT-3a	CT-3a	CT-3a	N/A	A.C.T.	8'-0"			REFER TO ID4 FOR ELEVATIONS	
221T	ADVISOR OFFICE		CPT-4													



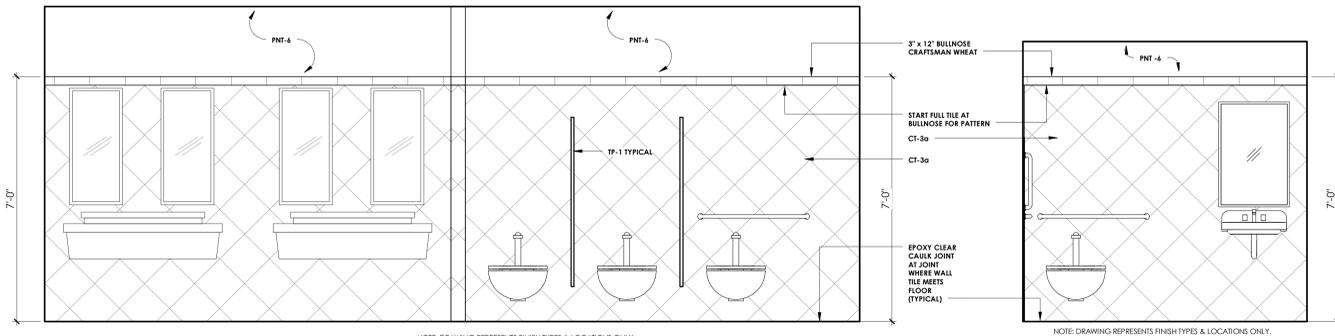
**7** SECTION @ RECEPTION DESK  
 ID-4 3/4" = 1'-0"



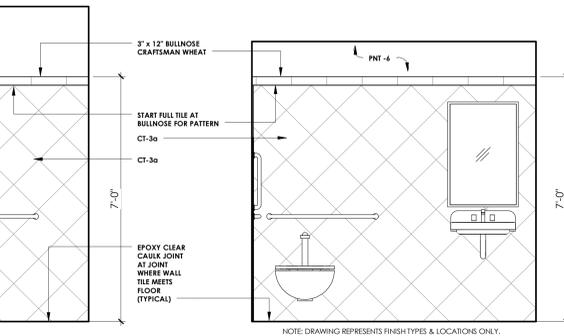
**1** SECTION @ GLASS WALL  
 ID-4 3/4" = 1'-0"



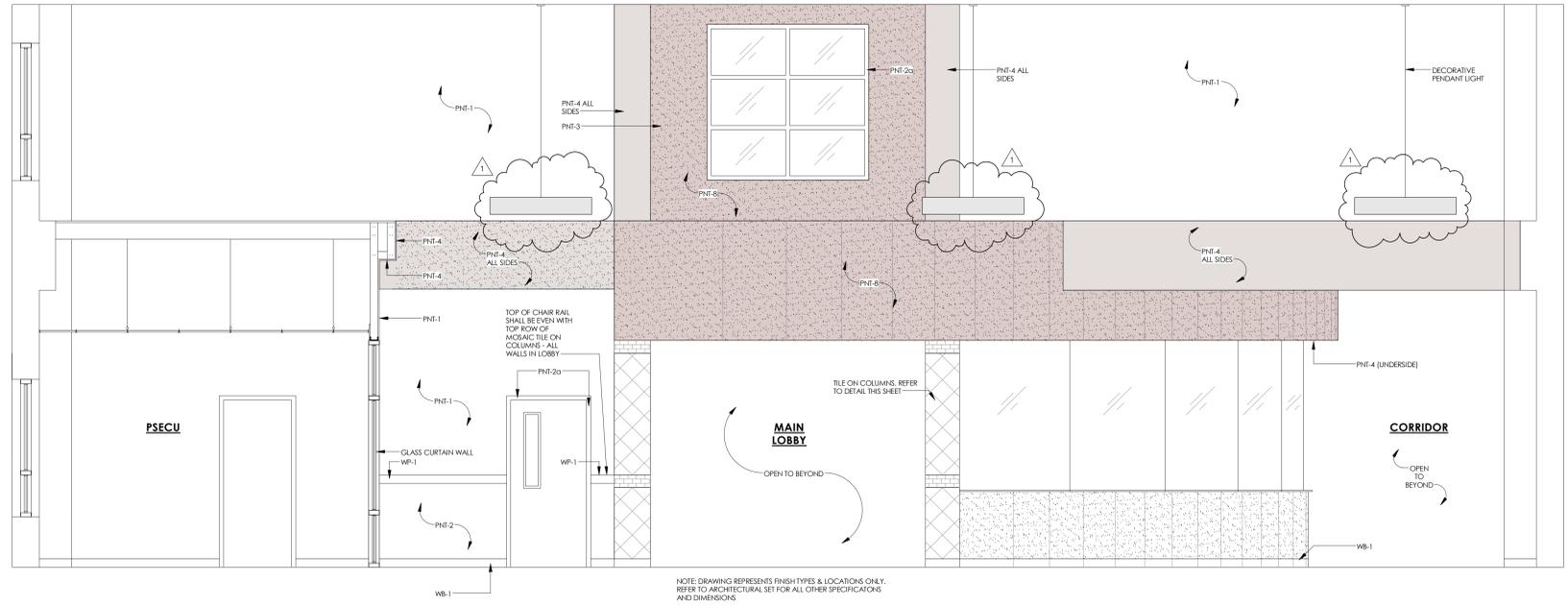
**2** ELEVATION - MEN - TYP. TILE  
 ID-4 1/2" = 1'-0"



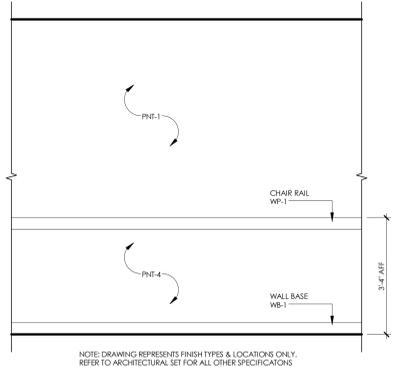
**3** ELEVATION - WOMEN - TYP. TILE  
 ID-4 1/2" = 1'-0"



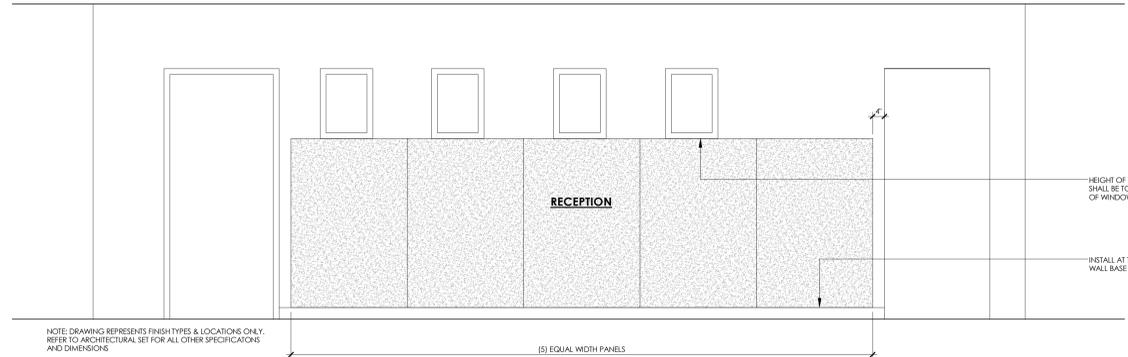
**4** ELEVATION - TYP. SINGLE TOILET  
 ID-4 1/2" = 1'-0"



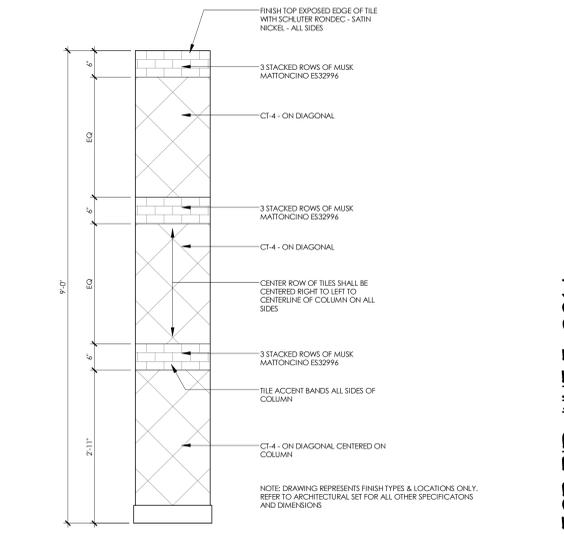
**8** LOBBY ELEVATION - FINISHES  
 ID-4 3/8" = 1'-0"



**5** TYPICAL CORRIDOR WALL FINISHES  
 ID-4 1/2" = 1'-0"



**9** RECEPTION  
 ID-4 1/2" = 1'-0"



**6** TYPICAL COLUMN - MAIN LOBBY 220  
 ID-4 3/4" = 1'-0"

DRAWN BY:	G.H.	DATE:	6/5/14
CHECKED BY:			
SCALE:	AS NOTED		

REVISIONS	
DATE	DESCRIPTION
6/5/14	GCI ADDENDUM #1 PER B&H
7/8/14	GCI ADDENDUM #2 PER B&H

SHEET:  
**ELEVATIONS**

**ID-4**

ISSUED FOR BID JUNE 5, 2014