



ADDENDUM #3

March 8, 2013

Re: Harrisburg Area Community College
Central Administration Building
Phase 3 – Interior Fitout
Solicitation # RFB13-15

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

To: All Planholders

This Addendum is hereby made part of the Plans dated February 8, 2013 and Project Manual dated February 13, 2013 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.

2.1 BID DATE RESCHEDULED

Section 00100 – Invitation to Bid – CHANGE FOURTH PARAGRAPH TO READ:

HACC will receive sealed bids for the work at Three Penn Center, 349 Wiconisco Street, Harrisburg, PA 17110 in Room 224 until **2:00pm on March 14, 2013**. Bids received after this time will not be accepted. **ONLY BONAFIDE BIDS WILL BE ACCEPTED.** Bids will be opened and read aloud immediately following the bid receipt time.

2.2 CHANGES TO THE SPECIFICATIONS

A. 02871 – Bicycle Racks: ADD item 2.02.A.3:

- “3. Quantity
- a. Three units”

B. 06610 – Plastic Fabrications: ADD this section in its entirety.

C. 09900 – Paints and Coatings:

a. ADD items 8 and 9 to paragraph 1.02.D:

- “8. Precast concrete
- 9. Existing or new face brick”

b. DELETE item 1.07.D.1 in its entirety. Renumber 1.07.D, 1 & 2 accordingly.

D. 15855 – Air Inlets and Outlets: ADD this section in its entirety.

E. 16020 – Electrical System Tests: REPLACE this section in its entirety.

F. 16141 – Wiring Devices and Wall Plates: REVISE paragraph 1.2.C to read:

“D. Labeling: in addition to Electrical Sections identification requirements the Contractor label all circuit numbers on the back of each and every wall switch with indelible ink or Brady permanent machine generated indelible label; the Contractor shall label on the front of each and every power receptacle outlet the circuit number with a Brady permanent indelible label, machine generated.”

G. 16571 – Lighting Controls: ADD paragraph 2.11.M:

“M. LCP BACNET IP GATEWAY

1. Provide a BAC net IP gateway for the LCP(s) to talk to the BMS system.
2. Provide conduit and cabling to the BMS system as required (the LCP and BMS are both located in the mechanical penthouse).
3. Provide all additional gateways, power supplies, and accessories as required for the LCP to talk to the BMS system.
4. Provide software/protocol licenses and software seats as required for 1 user.”

H. 16782 – Electronic Surveillance CCTV:

a. REVISE item 2.3.A to read: “Contractor shall provide power supplies, as required to support all interior and exterior building-mounted CCTV devices. See drawings for additional information.”

b. ADD item 2.3.D:

“D. Provide Altronix 8-port units to match current Altronix 28VAC power supplies (in IDF-1), 120VAC; quantity as required.”

1.2 CHANGES TO THE DRAWINGS

- A. Drawing X2.4: REVISE this sheet per SKA-10.
- B. Drawing X2.6: REVISE this sheet per SKA-11.
- C. Drawing A2.4: REVISE this sheet per SKA-12.
- D. Drawing A2.6: REVISE this sheet per SKA-13.
- E. Drawing A6.3: REPLACE this sheet in its entirety.
- F. Drawing A7.12: REVISE this sheet per SKA-14.
- G. Drawing S0.1:

- a. REVISE Structural General Note 4.F to read:

“ALL CONCRETE SHALL BE SAMPLED AND TESTED BY AN AGENCY RETAINED BY THE OWNER. THE OWNER SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE POURING OF ANY CONCRETE.”

- b. REVISE Structural General Note 5.L to read:

“AN INDEPENDENT INSPECTION AGENCY SHALL BE EMPLOYED BY THE OWNER TO INSPECT THE STRUCTURAL STEEL IN THE FIELD AND VERIFY THAT IT CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.”

- H. Drawing EL2.3 – REPLACE this sheet in its entirety.
- I. Drawing EL2.4 – REPLACE this sheet in its entirety.
- J. Drawing EL2.5 – REPLACE this sheet in its entirety.
- K. Drawing EL2.6 – REPLACE this sheet in its entirety.
- L. Drawing E5.1 – REPLACE this sheet in its entirety.
- M. Drawing E7.2 – REPLACE this sheet in its entirety.
- N. Drawing E7.3 – REVISE the location of panel RP1C to read “Receiving 147.”
- O. Drawing H7.3 – REPLACE this sheet in its entirety.
- P. Drawing T1.1 – REPLACE this sheet in its entirety.
- Q. Drawing T6.0 – REPLACE this sheet in its entirety.

1.3 CHANGES TO THE DETAIL REFERENCE MANUAL

- A. Index-1 – REPLACE this page in its entirety.
- B. N-3 – REPLACE this page in its entirety.
- C. L-1 – REPLACE this page in its entirety.
- D. CE-5 – REPLACE this page in its entirety.
- E. CE-6 – REPLACE this page in its entirety.
- F. CE-7 – REPLACE this page in its entirety.
- G. CE-45 – REPLACE this page in its entirety.
- H. CE-46 – REPLACE this page in its entirety.
- I. CE-47 – REPLACE this page in its entirety.
- J. CDT-11 – REPLACE this page in its entirety.
- K. DS-1 – REPLACE this page in its entirety.
- L. DE-2 – REPLACE this page in its entirety.
- M. DD-44 – ADD this page in its entirety.
- N. MWD-9 – REPLACE this page in its entirety.
- O. MWD-30 – REPLACE this page in its entirety.
- P. MWD-33 – REPLACE this page in its entirety.
- Q. MWD-52 – REPLACE this page in its entirety.
- R. MWD-53 – REPLACE this page in its entirety.
- S. MWD-56 – ADD this page in its entirety.
- T. MDT-10 – ADD this page in its entirety.
- U. MDT-11 – ADD this page in its entirety.
- V. MDT-12 – ADD this page in its entirety.

1.4 CLARIFICATIONS

- A. Each Contractor is responsible for cutting and patching of their own work.

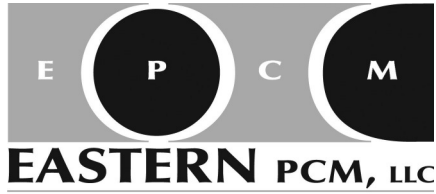
- B. New roof walking pads, crickets, flashing, etc. will be installed by phase 2 roof replacement contractor.
- C. The chemical treatment equipment shall be located adjacent to the closed circuit fluid cooler located in the mechanical penthouse.
- D. Hot gas reheat is not required on the heat pumps.
- E. The Electrical Contractor is responsible to provide automatic load transfer relays and wiring as required per each unique application, and include in the bid.
- F. General configurations of occupant sensors are shown on the plans. It is up to the Electrical Contractor to provide model types and layouts to meet the performance requirements listed in the specifications. It is also the Contractors responsibility to provide plan drawings with occupant sensor coverage as a shop drawing. Refer to Specification Section 16571.
- G. The Electrical Contractor shall provide the all power supplies and baluns for CCTV as specified in Section 16782.
- H. Panel HM1A is an existing panel to be retained with new breakers.
- I. Reference Plan E6.1: The intent is to series connect a shunt trip breaker into the existing elevator circuits.
- J. All breakers shown in panel schedules shall be new. Existing panels shall be retained where indicated.
- K. The furniture is existing and includes a whip for connection to floor boxes.
- L. Dimming is not required in Mens 110, Womens 111, Mens 203, or Womens 204. Provide single pole switches, occupant sensors, and automatic load control relays per the contract documents.
- M. Reference Plan H0.5: The loop water temperature shall be a range from 35 deg F to 90 deg F.
- N. Reference Plan H3.3: The connection point 12' above ground is for connection to a tanker truck if the need to drain the system is required. This will allow the ability to recover the propylene glycol mixture and reuse it.
- O. Removal of penthouse equipment: There is an existing knock out panel located on the north wall of the penthouse mechanical room. The contractor can either use this knock out panel or remove the fluid cooler's outside air louver for removal/installation of the mechanical equipment. Either option will require the contractor to reinstall knockout panel to existing conditions.
- P. Loop water equipment, i.e. pumps, air separator, expansion tank, etc. do not require insulation. Refer to specification 15182-5 Section 2.4.B.1 for insulation requirements for underground loop water piping.

1.5 ATTACHMENTS

- A. Specification Section 06610 – Plastic Fabrications
- B. Specification Section 15855 – Air Inlets and Outlets
- C. Specification Section 16020 – Electrical System Tests (revised 3/7/13)
- D. SKA-10 – Partial Large Scale First Floor Demolition Plan - Section A
- E. SKA-11 – Partial Large Scale Second Floor Demolition Plan - Section A
- F. SKA-12 – Partial Large Scale First Floor New Plan - Section A
- G. SKA-13 – Partial Large Scale Second Floor New Plan - Section A
- H. A6.3 – Large Scale First Floor Plans & Interior Elevations (revised 3/7/13)
- I. SKA-14 – Partial Large Scale Second Floor Pattern Plan - Section A
- J. EL2.3 – First Floor Plan - Section B - Lighting (revised 3/7/13)
- K. EL2.4 – First Floor Plan - Section B - Lighting (revised 3/7/13)
- L. EL2.5 – Second Floor Plan - Section A - Lighting (revised 3/7/13)
- M. EL2.6 – Second Floor Plan - Section B - Lighting (revised 3/7/13)
- N. E5.1 – Board Room 103 Enlarged Plan - Lighting Control (revised 3/7/13)
- O. E7.2 – Panel Schedules (revised 3/7/13)
- P. H7.3 – HVAC Schedules (revised 3/7/13)
- Q. T1.1 – First Floor Plan - Overall - Telecom (revised 3/7/13)
- R. T6.0 – Schematic Risers - Telecom (revised 3/7/13)
- S. INDEX-1 – Detail Reference Manual Index (revised 3/7/13)
- T. N-3 – Demolition Keynotes (revised 3/7/13)
- U. L-1 – Legend (revised 3/7/13)
- V. CE-5 – Column Enclosure Details (revised 3/7/13)
- W. CE-6 – Column Enclosure Details (revised 3/7/13)
- X. CE-7 – Column Enclosure Details (revised 3/7/13)
- Y. CE-45 – Column Enclosure Details (revised 3/7/13)
- Z. CE-46 – Column Enclosure Details (revised 3/7/13)

- AA.CE-47 – Column Enclosure Details (revised 3/7/13)
- BB. CDT-11 – Ceiling Detail (revised 3/7/13)
- CC. DS-1 – Door Schedule (revised 3/7/13)
- DD. DE-2 – Door Elevations (revised 3/7/13)
- EE. DD-44 – Door Detail
- FF. MWD-9 – Millwork Details (revised 3/7/13)
- GG. MWD-30 – Millwork Details (revised 3/7/13)
- HH. MWD-33 – Millwork Details (revised 3/7/13)
- II. MWD-52 – Millwork Details (revised 3/7/13)
- JJ. MWD-53 – Millwork Details (revised 3/7/13)
- KK. MWD-56 – Millwork Details
- LL. MDT-10 – Floor Expansion Joint
- MM. MDT-10 – Wall Expansion Joint
- NN. MDT-11 – Bikerack Detail

END OF ADDENDUM



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

HACC Central Administration Building
Phase 3 – Interior Fitout

Addendum # _____ 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 06610 - PLASTIC FABRICATIONS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, Owner's Contract Documents, and Division 1 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

- A. Plastic Fabrications.
- B. Sliding Doors
- C. Refer to scheduled list of items in KTF in DRM.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data; Include product description, fabrication information, and compliance with specified performance requirements.
- B. Shop Drawings: Indicate design load parameters, dimensions, adjacent construction, materials, thicknesses, fabrication details, required clearances, field jointing, tolerances, colors, finishes, methods of support, integration of plumbing components, and anchorages.
- C. Samples: Submit two samples, 6 x 6 inch in size, illustrating color, texture, and finish.
- D. Maintenance Data: Include instructions for stain removal, surface and gloss restoration.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in architectural glass fiber and resin components with 5 years documented experience.
- B. Materials and systems shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a period of at least five (5) consecutive years and which can show evidence of those materials being satisfactorily used on at least six (6) projects of similar size, scope and location. At least three (3) of the projects shall have been successful for use five (5) years or longer.
- C. Manufactured panels must be produced from a minimum of 40% post-industrial recycle content. This recycle content must be certified by a recognized 3rd party certification group, such as Scientific Certification Systems (SCS).

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Protect components from damage by retaining shipping protection in place until installation.
- B. Deliver plastic fabrications, systems and specified items in manufacturer's standard protective packaging.
- C. Do not deliver plastic fabrications, system, components and accessories to Project site until areas are ready for installation.
- D. Store materials in a flat orientation in a dry place that is not exposed to exterior elements.

- E. Handle materials to prevent damage to finished surfaces. Provide protective coverings to prevent damage or staining following installation for duration of project.
- F. Before installing plastic fabrications, permit them to reach room temperature.

1.06 FIELD CONDITIONS

- A. Do not install site fabricated components when site conditions may be detrimental to successful installation.
- B. Maintain temperature and humidity conditions favorable to proper curing of resin during and after installation.

1.07 MAINTENANCE DATA

- A. Submit manufacturer's care and maintenance data, including care, repair and cleaning instructions. Include in Project closeout documents.

1.08 WARRANTY

- A. Manufacturer's Special Warranty on Plastic Fabrications: Manufacturer's standard form agreeing to repair or replace units that fail in material or workmanship within the specified warranty period.
- B. Warranty Period: 1 year after the date of Substantial Completion.
- C. The warranty shall not deprive the Owner of other rights or remedies the Owner may have under other provisions of the Contract Documents, and is in addition to and runs concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Glass Fiber and Resin Fabrications:
 - 1. 3form, Inc., Salt Lake City, Utah, USA /Telephone 801-649-2500 Basis of Design

2.02 MATERIALS

- A. Sheets
 - 1. Engineered polyester resin
 - 2. Sheet Size: Maximum 4' x 10'
 - 3. Gage: 3/8 inch.
 - a. Product: Linea Ivory
 - b. Finish: Front Finish L Patina
 - c. Orientation: Vertical
- B. Interlayer Materials: Compatible with polyesters and bonding process to create a monolithic sheet of material when complete.
- C. Sheet minimum performance attributes:
 - 1. Rate of Burning (ASTM D 635). Material must attain CC1 Rating for a nominal thickness of 1.5 mm (0.060 in.) and greater.
 - 2. Self-Ignition Temperature (ASTM D 1929). Material must have a self-ignition temperature greater than 650 °F.
 - 3. Density of Smoke (ASTM D 2843). Material must have a smoke density less than 75%.
 - 4. Flame spread and Smoke developed testing (ASTM E 84). Material must be able to meet a level of Class A (Flame spread less than 25 and smoke less than 450) at thickness of 1".

5. Room Corner Burn Test (NFPA 286). Material must meet Class A criteria at ¼” thickness as described by the 2003 International Building Code.
6. Extent of Burning (UL 94). Must submit UL card.
7. Impact strength: Minimum impact strength test as measured by ASTM D 3763 of 20 ft. lbs. (for durability, shipping, installation, and use).
8. Safety Glazing: Material must attain a Class A impact rating in accordance with ANSI Z97.1-2004 at 1/8” thickness.
9. UPITT Test for Combustion Product Toxicity: Product must be recorded as “not more toxic than wood”.
10. Dynamic environmental testing (ASTM standards D 5116 and D 6670). Panels must not have detectable VOC off-gassing agents and must be have Greenguard™ Indoor Air Quality certified.

2.03 SHOP FABRICATION

- A. General: Fabricate plastic fabrications to designs, sizes and thicknesses indicated and to comply with indicated standards. Sizes, profiles and other characteristics are indicated on the drawings, additional fabrication and installation details can be found on the 3form Partner Preliminary Project Review, if applicable.
- B. Comply with manufacturer's written recommendations for fabrication.
- C. Machining: Acceptable means of machining are listed below. Ensure that material is not chipped or warped by machining operations.
 1. Sawing: Select equipment and blades suitable for type of cut required.
 2. Drilling: Drills specifically designed for use with plastic products.
 3. Milling: Climb cut where possible.
 4. Routing
 5. Tapping
- D. Laminating: Laminate to substrates indicated using adhesives and techniques recommended by manufacturer.
- E. Door Assembly
 1. Provide complete door assemblies as indicated in drawings.
 2. Extend tracks into recessed packets as required
 3. Provide stops and catches as required for telescoping double doors.

2.04 MISCELLANEOUS MATERIALS

- A. General: Provide products of material, size, and shape required for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaner: Type recommended by manufacturer.
- C. Fasteners: Use screws designed specifically for plastics. Self-threading screws are acceptable for permanent installations. Provide threaded metal inserts for applications requiring frequent disassembly such as light fixtures.
- D. Bonding Cements: May be achieved with solvents or adhesives, suitable for use with product and application.
- E. Sliding door hardware:
 1. Slide 04 system
 - a. Top Frame Profile: Model # 0-15-1783
 - b. Mullion: Model # 0-15-0037

- c. Bottom Frame: Model # 0-15-0034
 - d. Top Roller Assembly: Model # 3-15-0009
 - e. Bottom Roller: Model # 3-15-0010
 - f. Recessed Track: Model # 3-15-0044
 - g. Stop: Model # 3-15-0044
 - h. Slide Telescoping Catch: Model # 3-15-4444 - k
 - i. Wall Mounted Bracket: Model # 3-15-0015
 - j. Pocket Door Pull: Model # 3-15- 0069 - k
 - k. Latches: Model # 3-15-4447
 - l. Lock: Model # 3-15-4450
 - 1) Provide 4 master keys to the College for keying
 - m. Flush Bolt: Model 3-15-0005 - k (recessed track)
 - n. Connectors for Top Track: Model # 3-15-0018
 - o. Top Track End Capbumper: Model # 3-15-0046
 - p. Screw Cover: Model # 3-15-0011
 - q. Dust Brush: Model # 3-15-0012
 - r. Fasteners:
 - 1) Screws
 - 2) Clips
 - 3) Brackets
2. Doors:
- a. Sliding Doors (4 pairs total). Refer to drawings for locations and details.

2.05 DOOR FINISH

- A. Color: Clear anodized aluminum.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work and dimensions are as indicated on shop drawings.
- B. Examine substrates, areas, and conditions where installation of plastic fabrications will occur, with Installer present, for compliance with manufacturer's requirements. Verify that substrates and conditions are satisfactory for installation and comply with requirements specified.
- C. Verify that all required blocking has been installed prior installing the resin panels.

3.02 INSTALLATION

- A. General: Comply with manufacturer's written instructions for the installation of plastic fabrications.
- B. Manufacturer's shop to fabricate items to the greatest degree possible.
- C. Utilize fasteners, adhesives and bonding agents recommended by manufacturer for type of installation indicated. Material that is chipped, warped, hazed or discolored as a result of installation or fabrication methods will be rejected.
- D. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.

3.03 TOLERANCES

- A. Maximum variation from true position: 1/8 inch (3 mm).

- B. Maximum offset from true alignment: 1/8 inch (3 mm).

3.04 CLEANING

- A. Clean components of foreign material without damaging finished surface.

3.05 PROTECTION

- A. Protect surfaces from damage until date of substantial completion. Repair work or replace damaged work, which cannot be repaired to Architect's satisfaction.

3.06 SCHEDULES

- A. Refer to DRM for Resin types.

END OF SECTION 06610

SECTION 15855 - AIR INLETS AND OUTLETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Ceiling Diffusers.
- B. Supply Registers.
- C. Return and Exhaust Grilles.
- D. Related Sections include the following:
 - 1. Division 15 Section "Duct Accessories" for volume-control dampers not integral to diffusers, registers, and grilles.
 - 2. Division 15 Section "Testing, Adjusting, and Balancing" for balancing diffusers, registers, and grilles.

1.3 DEFINITIONS

- A. Diffuser: Circular, square, or rectangular air distribution outlet, generally located in the ceiling and comprised of deflecting members discharging supply air in various directions and planes and arranged to promote mixing of primary air with secondary room air.
- B. Grille: A louvered covering for an opening in an air passage, which can be located in a sidewall, ceiling, or floor.
- C. Register: A combination grille and damper assembly over an air opening.

1.4 SUBMITTALS

- A. Product Data: For each model indicated, include the following:
 - 1. Data Sheet: For each type of air outlet and inlet, and accessory furnished; indicate construction, finish, and mounting details.
 - 2. Performance Data: Include throw and drop, static-pressure drop, and noise ratings for each type of air outlet and inlet.
 - 3. Schedule of diffusers, registers, and grilles indicating drawing designation, room location, quantity, model number, size, and accessories furnished.

4. Assembly Drawing: For each type of air outlet and inlet; indicate materials and methods of assembly of components.

B. Coordination Drawings: Reflected ceiling plans and wall elevations drawn to scale to show locations and coordination of diffusers, registers, and grilles with other items installed in ceilings and walls. Refer to specification section 15815 - Metal Ducts for complete coordination drawing requirements.

1.5 QUALITY ASSURANCE

A. Product Options: Drawings and schedules indicate specific requirements of diffusers, registers, and grilles and are based on the specific requirements of the systems indicated. Other manufacturers' products with equal performance characteristics may be considered. Refer to Division 1 Section "Substitutions."

B. NFPA Compliance: Install diffusers, registers, and grilles according to NFPA 90A, "Standard for the Installation of Air-Conditioning and Ventilating Systems."

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

A. Diffusers, registers, and grilles are scheduled on Drawings.

B. Products: Subject to compliance with requirements, provide one of the following:

1. Air Systems Components; Krueger Div.
2. Anemostat Products; Dynamics Corp. of America.
3. Hart & Cooley, Inc.
4. Tuttle & Bailey Div.
5. Price.
6. Titus.
7. Nailor, Inc.

2.2 SOURCE QUALITY CONTROL

A. Testing: Test performance according to ASHRAE 70, "Method of Testing for Rating the Performance of Air Outlets and Inlets."

B. All painted finishes must pass a 100 hour ASTM B117 Corrosive Environments Salt Spray Test without creepage, blistering, or deterioration of film. The paint must pass a 250 hour ASTM D870 Water Immersion Test. The paint must also pass the ASTM D2794 Reverse Impact Cracking Test with a 50 inch pound force applied.

2.3 SQUARE CEILING DIFFUSERS (TYPE A)

- A. Ceiling Diffusers: Ceiling diffusers shall be square type with a removable three cone face that discharges a horizontal blanket of air to the space. (4-way, 3-way, 2-way, 1-way blow as indicated on drawings and shall be selected to integrate with the ceiling system as shown on the plans and as scheduled). Diffusers shall have integral, drawn round necks for duct attachment. The removable cone must be easily detachable without tools, for cleaning and installation. Diffusers shall be similar to Titus TMS diffusers.
1. Material: Heavy gauge steel backpan; steel die stamped cones according to the model selected
 2. Finish: White, Anodic acrylic paint, baked on finish at 315 deg F for 30 minutes
 3. Duct Connection: Square or round as indicated by drawings. Provide square to round neck adapters where required by diffuser, duct and ceiling conditions.
 4. Duct Connection Size: As indicated on drawings.
 5. Face Size: As indicated on drawings.
 6. Face: 3/16-inch diameter holes on 1/4-inch staggered centers
 7. Maximum Noise-Criterion Rating: NC25.
 8. Face Style: Square.
 9. Mounting: Lay-in or surface mount; as required to match ceiling type
 10. Dampers: None, all balancing shall be accomplished through duct mounted volume dampers, installed in each branch duct, as indicated on the contract drawings.
 11. Accessories: Include lay-in extension panel of matching material and finish as necessary for installation in a 2' x 2' ceiling grid system.
 - a. Provide optional factory installed R-6 foil backed insulation available for 24 x 24 inch full face models

2.4 RETURN AND EXHAUST GRILLES (TYPES B)

- A. Return and Exhaust Grilles: Rectangular return and exhaust registers with fixed deflection blades. For surface mounting applications, the border shall be steel, and shall include countersunk screw holes for installation. Lay-in models shall include extension panels where required for the scheduled duct size and grid system module size. Dampers shall be adjustable through the face of the register. Grilles shall be similar to Titus 350FL.
1. Material: Steel.
 2. Finish: White, Anodic acrylic paint, baked on finish at 315 deg F for 30 minutes
 3. Face Blade Arrangement: 3/4" spacing, fixed 22.5 deg deflection.
 4. Face Size: As indicated on drawings.
 5. Duct Connection Size: As indicated on drawings.
 6. Maximum Noise-Criterion Rating: NC25.
 7. Mounting: Lay-in or surface mount; as required to match ceiling type
 8. Border: 1-1/4" on all sides, constructed of steel and shall have countersunk screw holes for a neat appearance.
 9. Damper Type: Heavy gauge steel adjustable opposed-blade assembly. Return/Exhaust grille shall be provided with an integral damper in addition to the duct mounted damper indicated by the contract drawings.
 10. Accessories: Include lay-in extension panel of matching material and finish as necessary for installation in a 2' x 2' ceiling grid system.

2.5 SIDEWALL DIFFUSER (TYPE C)

- A. General: Individually adjustable airfoil blade, double deflection supply grille.
- B. Material: Steel.
- C. Finish: Baked enamel, white.
- D. Maximum Noise-Criterion Rating: NC27
- E. Face Blade: 3/4" Blade Spacing
- F. Border: 1-1/4" border for surface mounting directly to ductwork
- G. Damper Type: Unit mounted opposed blade damper.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas where diffusers, registers, grilles, and filter modules are to be installed for compliance with requirements for installation tolerances and other conditions affecting performance of equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 COORDINATION

- A. Coordinate all devices with ceiling grid, construction and type, and work of other trades.
- B. See also "ACCESS PANELS".

3.3 INSTALLATION

- A. Install diffusers, registers, and grilles level and plumb, according to manufacturer's written instructions, Coordination Drawings, original design, and referenced standards.
- B. Ceiling-Mounted Outlets and Inlets: Drawings indicate general arrangement of ducts, fittings, and accessories. Air outlet and inlet locations have been indicated to achieve design requirements for air volume, noise criteria, airflow pattern, throw, and pressure drop. Make final locations where indicated, as much as practicable. For units installed in lay-in ceiling panels, locate units in the center of the panel. Where architectural features or other items conflict with installation, notify Architect for a determination of final location.
- C. Install diffusers, registers, grilles, and filter modules with airtight connection to ducts and to allow service and maintenance of dampers, air extractors, and fire dampers.

3.4 ADJUSTING

- A. After installation, adjust diffusers, registers, grilles, and filter modules to air patterns indicated, or as directed, before starting air balancing.

3.5 CLEANING

- A. After installation of diffusers, registers, grilles, and filter modules, inspect exposed finish. Clean exposed surfaces to remove burrs, dirt, and smudges. Replace diffusers, registers, grilles, and filter modules that have damaged finishes.

END OF SECTION 15855

SECTION 16020 - ELECTRICAL SYSTEM TESTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Field acceptance and operational testing of all new and existing electrical equipment and systems, as shown on the drawings and noted herein
 1. The current electrical equipment in the first floor electrical closet shall be cleaned and retested prior to re-use, including the panel boards and transformers left in that room; per Section 3.2 below. Assure all mechanical connections are torque tightened as required per NETA and manufacturers requirements.
 2. The current main switchboard in the penthouse (that feeds Mumma Hall electrical closets) shall be cleaned and tested per Section 3.2 and also shall be Infrared thermography scanned to determine any high temperature hot-spots and this test shall be included in the test report. (include thermo graphic test results) Assure all mechanical connections are torque tightened as required per NETA and manufacturers requirements.

1.3 QUALITY ASSURANCE

- A. Test materials and methods shall conform to all applicable codes, the requirements of authorities having jurisdiction and the latest edition of reference standards published by the organizations listed in Section 16010 applicable to the work of this section.
- B. Test instrument calibration in accordance with NETA ATS.

1.4 SUMMITTALS

- A. Submit in accordance with Section 16010.
- B. Proposed testing schedule.
- C. Certified test reports. Refer to specific test descriptions for additional information regarding data to be included in test reports.

1.5 GENERAL REQUIREMENTS FOR TESTING

- A. Retesting required as a result of malfunction or failure of equipment to meet specified performance criteria shall be performed at no additional cost to the Owner.
- B. Where possible, malfunctioning equipment shall be corrected at the site and retested; otherwise, equipment shall be replaced with new equipment and retesting shall proceed.
- C. Upon satisfactory completion of these tests, the Contractor shall furnish, for each item of equipment or system tested, a written statement certifying that there has been no invalidation of any warranties or impairment of the capacity or functionality of the equipment or system tested.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Provide all equipment required to conduct tests as specified herein, including any specialized test equipment recommended by a system manufacturer.
- B. The tests shall be conducted by:
 - 1. I.E.T., Inc., PO. Box 326, Dauphin Pennsylvania, (717) 921-8993
 - 2. MET Electrical Testing Company, Inc., 3700 Commerce Drive, Suite 901-903, Baltimore Maryland, 21227, (888) 638-8378
 - 3. Cable Testing Service, Inc., 27G Albe Drive, Newark, DE 19702, (302) 369-5420 or 1-800-624-1600.

PART 3 - EXECUTION

3.1 SCHEDULING

- A. Notify the Professional 2 weeks prior to testing. Scheduling of all tests shall be approved by the Professional.
- B. Schedule tests so as not to interfere with the overall progress of the job.
- C. Schedule tests so that equipment may be energized immediately after completion of testing and approval of reports.

3.2 PREPARATION

- A. Examine the Contract Documents to ensure the completeness of all Work prior to testing.

- B. Megger and high potential testing shall not be performed during periods of high relative humidity. A guard shall be stationed at each location where exposed cables, buswork, connections or other components exist during megger and high potential testing.
- C. All equipment shall be thoroughly cleaned prior to testing. Vacuum the interiors of all cabinets and equipment cubicles and remove all foreign material. Wipe all insulators, bushings and bus supports clean with a lint free cloth.
- D. Preliminary tests and visual inspections of the electrical installation including verification checks of factory wiring shall be conducted prior to electrical acceptance and operational tests to avoid delays, and to assure that equipment and installations are free of faulty conditions prior to the application of test voltages.
- E. Where the equipment or system under test is interconnected with or dependent upon other equipment, systems and/or controls for proper operation, the latter shall be operated simultaneously with the equipment or system under test to verify proper functioning of all interfaces.
- F. Verify that all shipping materials and restraints have been removed from equipment.
- G. Check for proper tightness at all connections of shipping sections.

3.3 WIRING SYSTEM TESTS (600 VOLTS AND LESS)

- A. Wire and cable shall be tested for continuity, freedom from short circuits and grounds and meggered to assure adequate insulation resistance for each conductor.
- B. Megger instrument shall apply 1000 volts DC for 1 minute.
- C. Insulation resistance between any 2 phase conductors and any phase conductor to ground shall be not less than 2 megohms for connected conductors and 100 megohms for disconnected conductors.
- D. Submit schedule of test results for all feeders rated at 100 amps or greater. Schedule shall indicate feeder designation, load served, feeder size, feeder length and measured values for each conductor. Individual values shall be recorded for each conductor of multiple phase circuits.
- E. Visual and Maintenance Inspection:
 - 1. Inspect each individual exposed power cable number 6 AWG and large for:
 - a. Physical damage.
 - b. Proper connections in accordance with single line diagram.
 - c. Cable bends not in conformance with manufacturer's minimum allowable bending radius where applicable.
 - d. Color-coding conformance with specifications.
 - e. Proper circuit identification.
 - 2. Mechanical Connections for:
 - a. Proper lug type for conductor material.
 - b. Proper lug installation.

- c. Bolt torque level in accordance with NETA ATS, Table 10.1, unless otherwise specified by Manufacturer.
3. Shielded Instrumentation Cables for:
 - a. Proper shield grounding.
 - b. Proper terminations.
 - c. Proper circuit identification.
4. Control Cables for:
 - a. Proper termination.
 - b. Proper circuit identification.

3.4 GROUNDING SYSTEM TESTS

- A. Tests on the grounding system shall be made after complete installation to the existing.
- B. Test the grounding system for continuity by applying a low voltage DC source of current, capable of providing up to 100 amperes. The ground path using structural steel must conduct 100 amperes. Resistance as calculated from the current and voltage shall not exceed 0.25 ohms.
- C. Test the completed equipment grounding system at each distribution panel, motor control center and branch circuit panelboard. Ground resistance shall not exceed 5 ohms at any piece of distribution equipment and 10 ohms at any item of utilization equipment. Ground resistance tests at distribution equipment shall be made in accordance with the procedures described in James G. Biddle Company Bulletins 25-T2 and 25-J and in accordance with IEEE 81, Section 8.2.1.1 and 8.2.1.5.
- D. Visual and Mechanical Inspection:
 1. Equipment and circuit grounds in panelboard assemblies for proper connection and tightness.
 2. Effective transformer care and equipment grounding.
 3. Accessible connections to grounding electrodes for proper fit and tightness.

3.5 DISTRIBUTION EQUIPMENT TESTS

- A. All distribution equipment shall be tested for continuity, freedom from short circuits and grounds and meggered to assure adequate resistances.
- B. Megger instrument shall apply 1000 volts DC for equipment rated 480 or 600 volts and 500 volts DC for equipment rated 250 volts; applied for 1 minute.
- C. Insulation resistance between any 2 phases and any phase to ground shall be not less than 100 megohms for equipment rated 480 or 600 volts and 25 megohms for equipment rated 250 volts.
- D. Measure load current on each phase of panelboards serving single phase loads. Rearrange branch circuits to balance phases to within +/-10 percent of the average load. Maintain proper phasing of trunked branch circuit homeruns.

- E. Perform an insulation resistance test at 1000 volts DC on each circuit breaker for 1 minute from pole-to-pole and from pole-to-ground with the breaker closed and across open contacts of each phase. Insulation resistance shall not be less than 100 megaohms.
- F. Set, calibrate and adjust protective device settings of each circuit breaker in accordance with the approved coordination study using secondary current injection.

3.6 ELECTRICAL ACCEPTANCE TESTS

- A. The Contractor shall engage the services of a recognized independent testing agency to perform certain electrical tests as herein specified. The testing agency shall be responsible to do the specified electrical tests in total compliance with the specification of the National Electrical Testing Association (NETA). The Electrical Contractor shall be responsible to do visual and mechanical inspections as well as megger tests as detailed herein and in total compliance with the specifications of NETA. The Electrical Contractor shall certify in writing that the visual and mechanical inspections were completed and the results of those inspections.
- B. The testing agency shall provide all material, equipment, labor and supervision required to conduct the electrical tests.
- C. It is the intent of these inspections and tests to determine the suitability for reliable operation of certain electrical facilities and upon completion, a label shall be attached to all items included in this scope of work. These labels shall indicate the date of tests and the agency responsible for conducting the tests.
- D. As copyrighted by NETA, the responsibility of the testing laboratory and the Contractor shall be as follows:
 - 1. The Contractor shall perform routine resistance, continuity and rotation tests for main distribution and utilization equipment prior and in addition to tests performed by the testing agency specified herein. The Contractor shall also perform the specified visual and mechanical inspections.
 - 2. The Contractor shall supply a suitable and stable source of test power to the test laboratory at each test site. The testing agency shall specify requirements.
 - 3. The Contractor shall notify the testing agency when equipment becomes available for acceptance tests. Work shall be coordinated to expedite project scheduling.
 - 4. The Contractor will supply a complete set of electrical plans, specifications and any pertinent change orders to the testing agency prior to commencement of testing.
 - 5. The testing agency shall notify the Professional prior to commencement of any testing.
 - 6. Any system, material or workmanship which is found defective on the basis of acceptance tests shall be reported directly to the Professional.
 - 7. The testing agency shall maintain a written record of all tests and upon completion of project, assemble and certify a final test report.

- E. Test Instrument Traceability:
1. The testing agency shall have a calibration program which maintains all applicable test instrumentation within rated accuracy.
 2. The accuracy shall be traceable to the National Bureau of Standards in an unbroken chain.
 3. Instruments shall be calibrated in accordance with the following frequency schedule:
 - a. Field instruments - 6 months maximum.
 - b. Laboratory instruments - 12 months.
 - c. Leased specialty equipment - 12 months (where accuracy is guaranteed by lessor, i.e. Doble).
 4. Date calibration labels shall be visible on all test equipment.
 5. Records must be kept up-to-date which show date and results of all instruments calibrated or tested.
 6. An up-to-date instrument calibration instruction and procedure will be maintained for each test instrument.
- F. Test Report:
1. The test report shall include the following:
 - a. Summary of project.
 - b. Description of equipment tested.
 - c. Description of test.
 - d. Test results.
 - e. Conclusions and recommendations.
 - f. Appendix, including appropriate test forms.
 - g. List of test equipment used and calibration date.
 2. Furnish 3 copies of the completed report to the Professional no later than 30 days after completion of the tests.
- G. Applicable Codes, Standards and References:
1. All inspection and tests shall be in accordance with the following applicable codes and standards except as provided otherwise herein.
 - a. National Electrical Code - NEC.
 - b. National Electrical Manufacturer's Association - NEMA.
 - c. American Society for Testing and Materials - ASTM.
 - d. Institute of Electrical and Electronic Engineers - IEEE.
 - e. National Electrical Testing Association - NETA.
 - f. American National Standards Institute - ANSI.
 - g. State and Local Codes and Ordinances.
 - h. Insulated Power Cable Engineers Association - IPCEA.
 - i. Association of Edison Illuminating Companies - AEIC.
 - j. OSHA Part 1910; Subpart S, 1910.308.
 - k. National Fire Protection Association - NFPA.
 2. All devices and materials to perform the tests must be obtained prior to commencing the work.
 - a. All instruments must be available and in proper operating condition.
 - b. All dispensable materials such as solvents, rags and brushes required must be provided.
 - c. All equipment handling devices such as vehicles, chain falls and other lifting equipment must be available or scheduled.

- d. All instruction books, calibration curves or other printed material to cover the electrical devices must be available.
 - e. Data sheets to record all test results must be available before the work is started.
3. All inspections and tests shall utilize the following references:
- a. Project design specifications.
 - b. Project design drawings.
 - c. Manufacturer's instruction manuals applicable to each particular apparatus.
- H. Safety and Precautions:
1. Safety practices shall include, but are not limited to, the following requirements:
 - a. Occupational Safety and Health Act of 1970 - OSHA.
 - b. Accident Prevention Manual for Industrial Operations, Seventh Addition, National Safety Council, Chapter 4.
 - c. Applicable State and Local Safety Operating Procedures.
 - d. NETA Safety/Accident Prevention Program.
 - e. Owner's Safety Practices.
 - f. National Fire Protection Association - NFPA 70E.
 2. All tests shall be performed with apparatus de-energized except where otherwise specifically required by NETA.
 - a. Field coordinate shut-down with Owner to minimize interruption to their normal operations.
 3. The testing agency shall have a designated safety representative who shall be present on the project and supervise operations with respect to safety.
 4. Power circuits shall have conductors shorted to ground by a hot-line grounded device approved for the purpose.
 5. In all cases, work shall not proceed until the safety representative has determined that it is safe to do so.
 6. The testing agency shall have available sufficient protective barriers and warning signs to conduct specified tests safely.
- I. The following items of equipment shall be tested in accordance with NETA Specifications. All listed items shall have the NETA recommended visual and mechanical inspections performed by the Electrical Contractor. The testing agency shall perform the electrical tests noted.
1. Existing low voltage switchboard consisting of:
 - a. All existing feeder circuit breakers feeding new equipment.

3.7 FAULT PROTECTION AND COORDINATION STUDY

- A. A partial system coordination study for system protection to be performed by the testing company as specified herein before in this Section. Fault current calculations to be provided between existing main switchboard feeder breakers and new downstream panels only.
1. The fault protection and coordination study shall include the following information:
 - a. Calculated available fault currents at all equipment busses and overcurrent protective devices in the system. Values shall be calculated for 3 phase

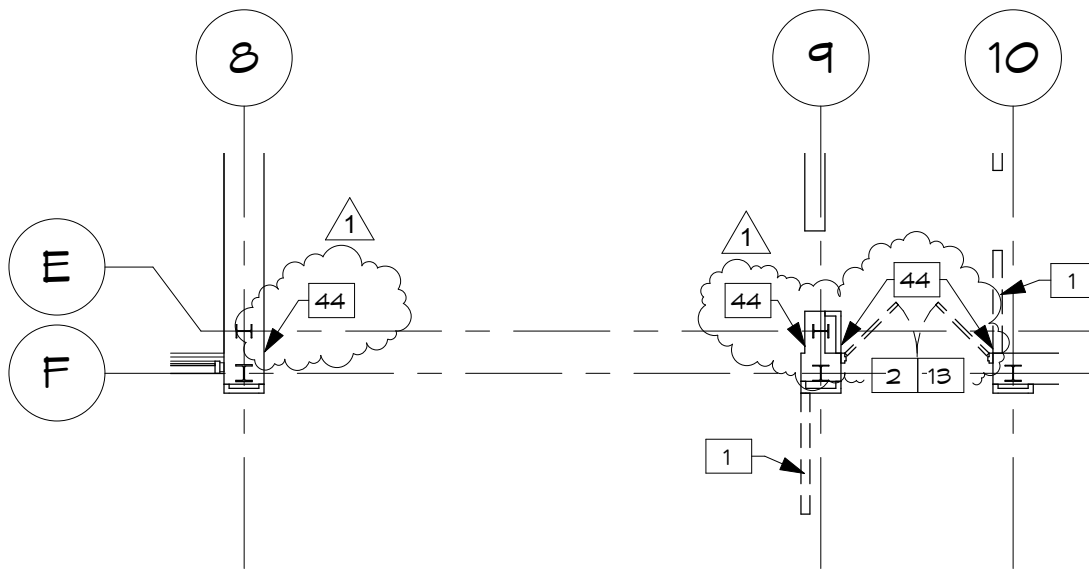
bolted fault conditions. The current limiting effects of fuses shall be demonstrated in the report.

- b. Complete sets of time-current coordination curves, starting with devices at the point of service through to the branch devices in each item of equipment at the lowest levels of the distribution system.
- c. A complete set of transformer inrush and thermal withstand curves.
- d. A tabulation of all recommended relay settings including ground fault relay settings, fuse sizes and classes and circuit breaker trip settings; identifying each item by Manufacturer and catalog number.
- e. A tabulation of all necessary revisions and/or additional equipment required to achieve full selective coordination per Articles 620.62, 700.27 and 701.18 of the 2008 National Electrical Code.
- f. A tabulation of any cases where selective coordination is not obtainable and a description of the consequences of a downstream fault on continuity of service.
- g. The study shall also include any related data required for substation and clarification of the main content of the report.

3.8 IMPLEMENTATION OF RECOMMENDATIONS

- A. Upon approval of the final study by the testing company, the Contractor shall adjust protective device settings for new and existing protective devices in the affected equipment in accordance with the values recommended in the report.
- B. Upon approval of the final study by the testing company, the Contractor shall implement all recommendations included in the report to ensure that full selective coordination is achieved as per Articles 620.62, 700.27 and 701.18 of the 2008 National Electrical Code.
- C. The final selection of protective devices for all new equipment furnished under this Contract shall be based on the approved study.

END OF SECTION 16020



**PARTIAL LARGE SCALE FIRST FLOOR
DEMOLITION PLAN - SECTION A**

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

(REF. TO DWG. X2.4)

Revisions		
No.	Date	Description
1	3/7/13	ADDENDUM #3

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**ALTERATIONS TO HACC
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BUILDING**

HARRISBURG, PA

**PARTIAL LARGE SCALE
FIRST FLOOR DEMOLITION
PLAN - SECTION A**

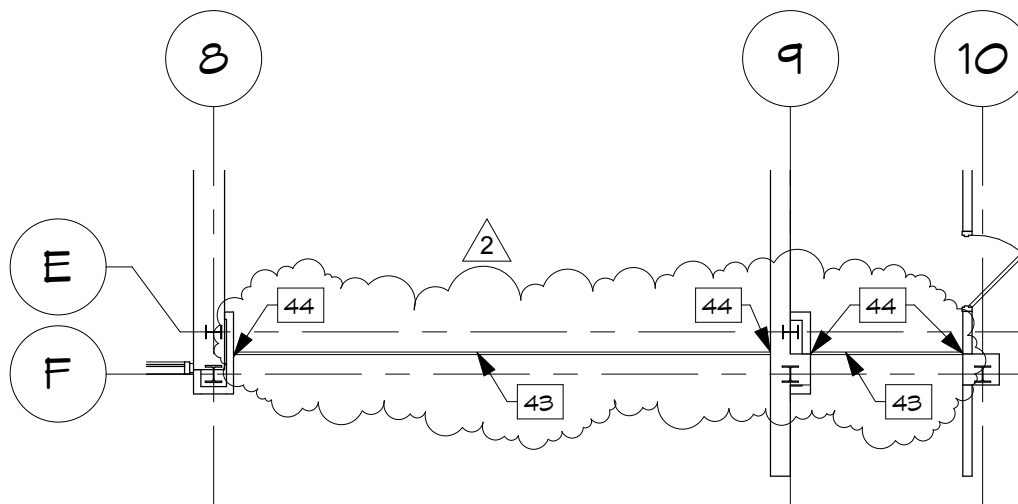
**CONSTRUCTION
DOCUMENTS**

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DATE:
FEBRUARY 8, 2013

PROJECT NUMBER:
3395

DRAWING NUMBER:
SKA-10
PHASE 3



PARTIAL LARGE SCALE SECOND FLOOR DEMOLITION PLAN - SECTION A

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

(REF. TO DWG. X2.6)

Revisions		
No.	Date	Description
1	2/22/13	ADDENDUM #1
2	3/7/13	ADDENDUM #3

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PARTIAL LARGE SCALE SECOND FLOOR DEMOLITION PLAN - SECTION A

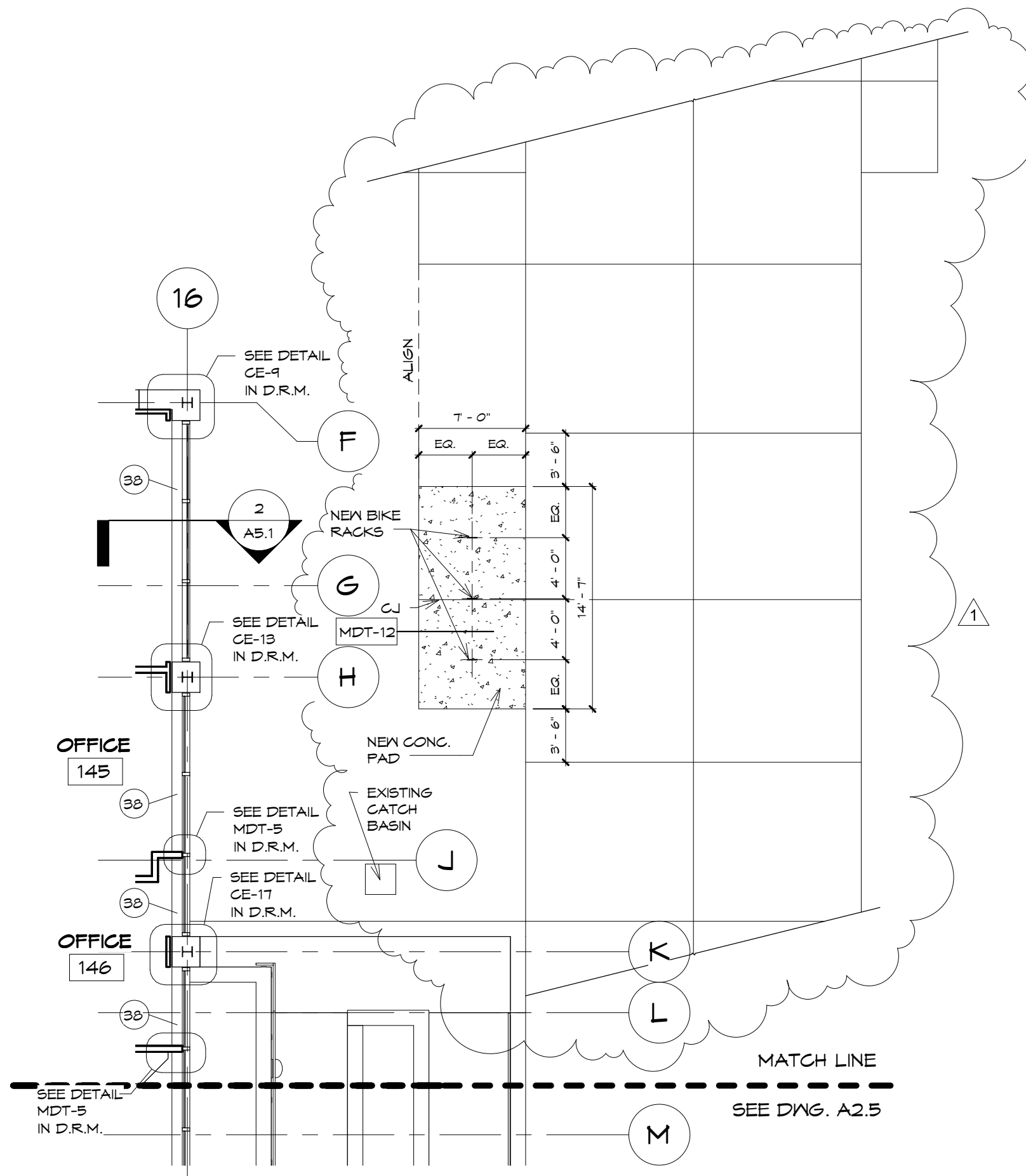
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3395

DRAWING NUMBER:
SKA-11
 PHASE 3



PARTIAL LARGE SCALE FIRST FLOOR NEW PLAN - SECTION A

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

(REF. TO DWG. A2.4)

Revisions		
No.	Date	Description
1	3/7/13	ADDENDUM #3

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**ALTERATIONS TO HACC
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**PARTIAL LARGE SCALE
FIRST FLOOR NEW PLAN -
SECTION A**

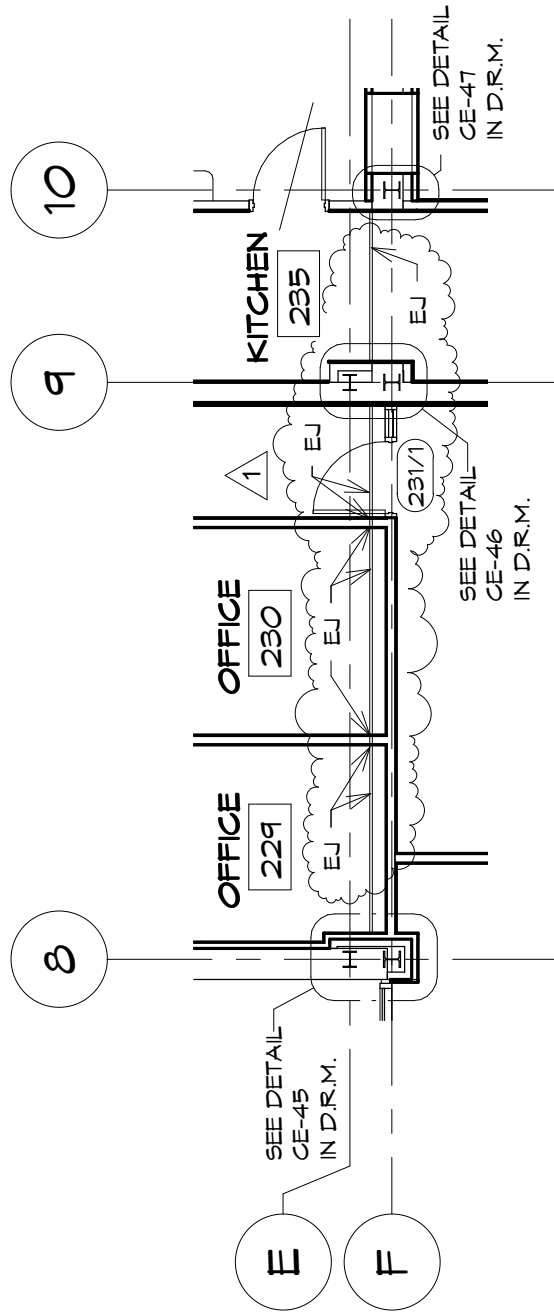
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SKA-12
PHASE 3



PARTIAL LARGE SCALE SECOND FLOOR NEW PLAN - SECTION A

SCALE: 1/8" = 1'-0" (REF. TO DWG. A2.6)

Revisions		
No.	Date	Description
1	3/7/13	ADDENDUM #3

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PARTIAL LARGE SCALE
 SECOND FLOOR NEW PLAN
 - SECTION A

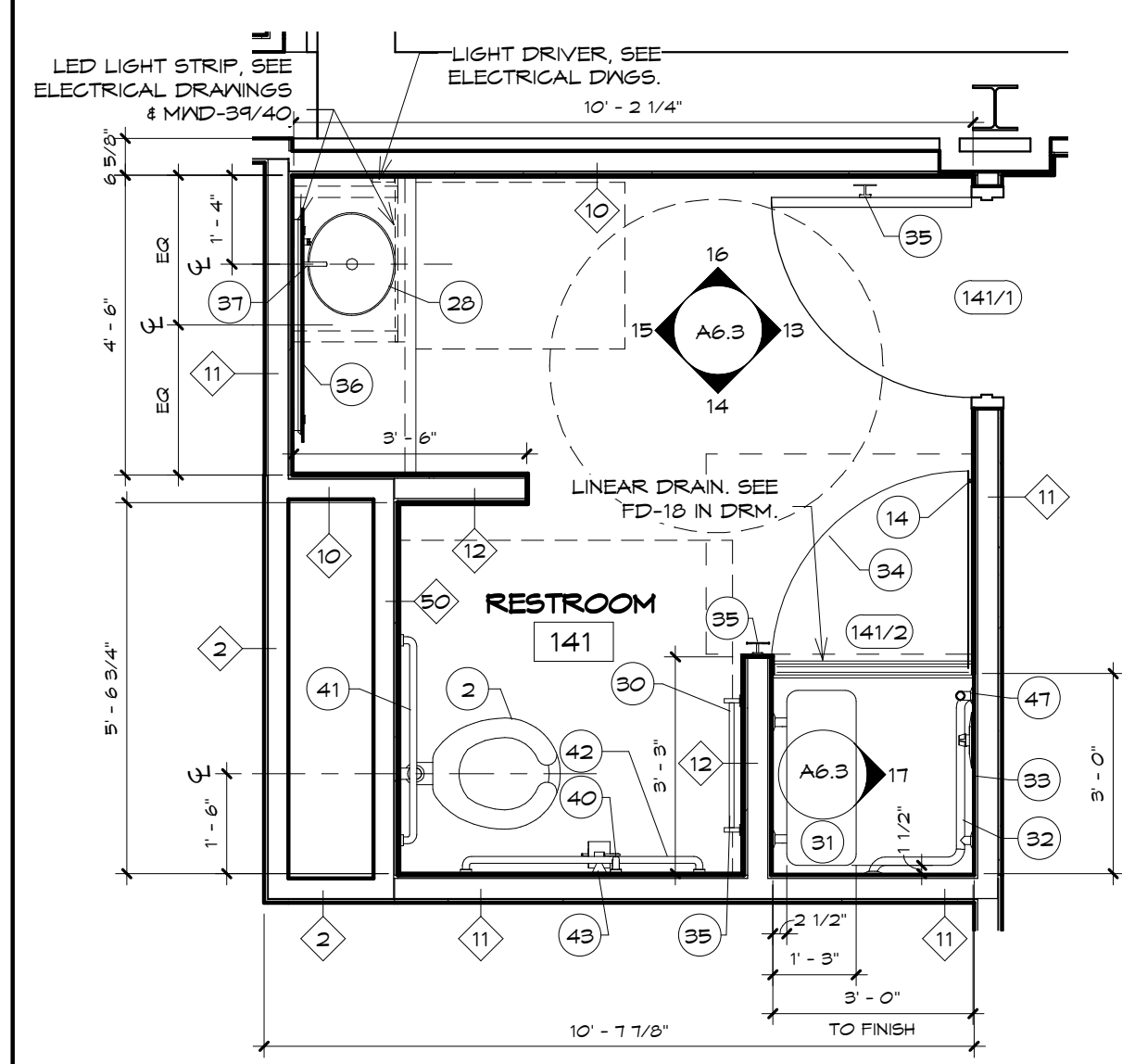
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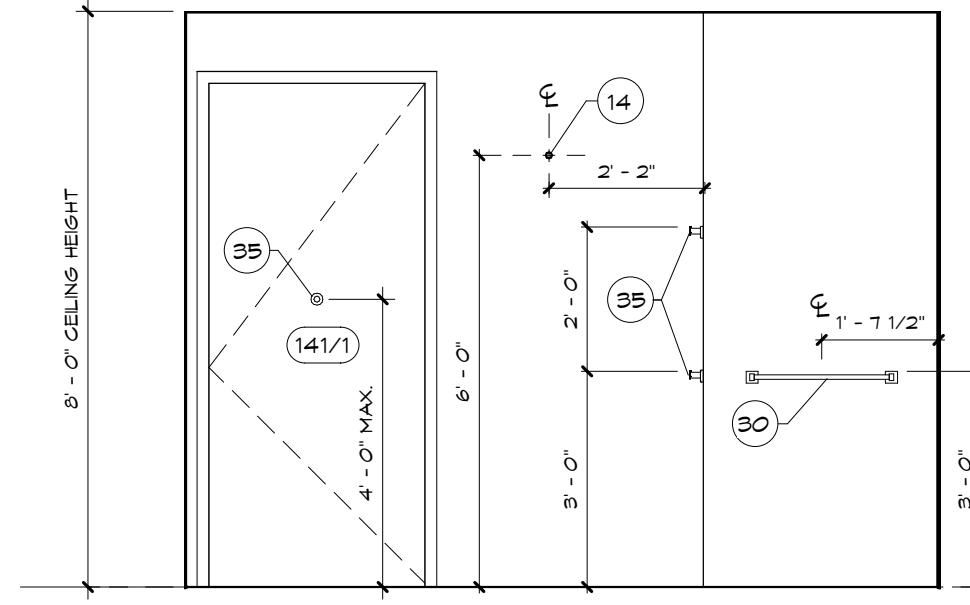
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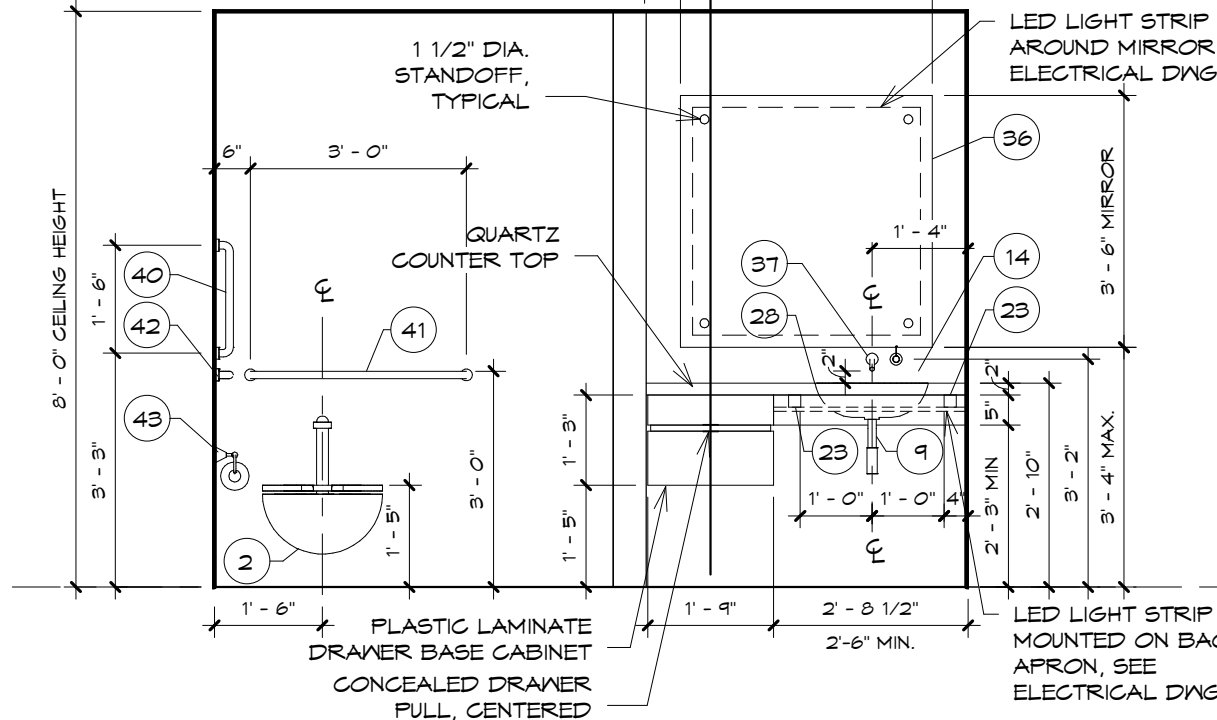
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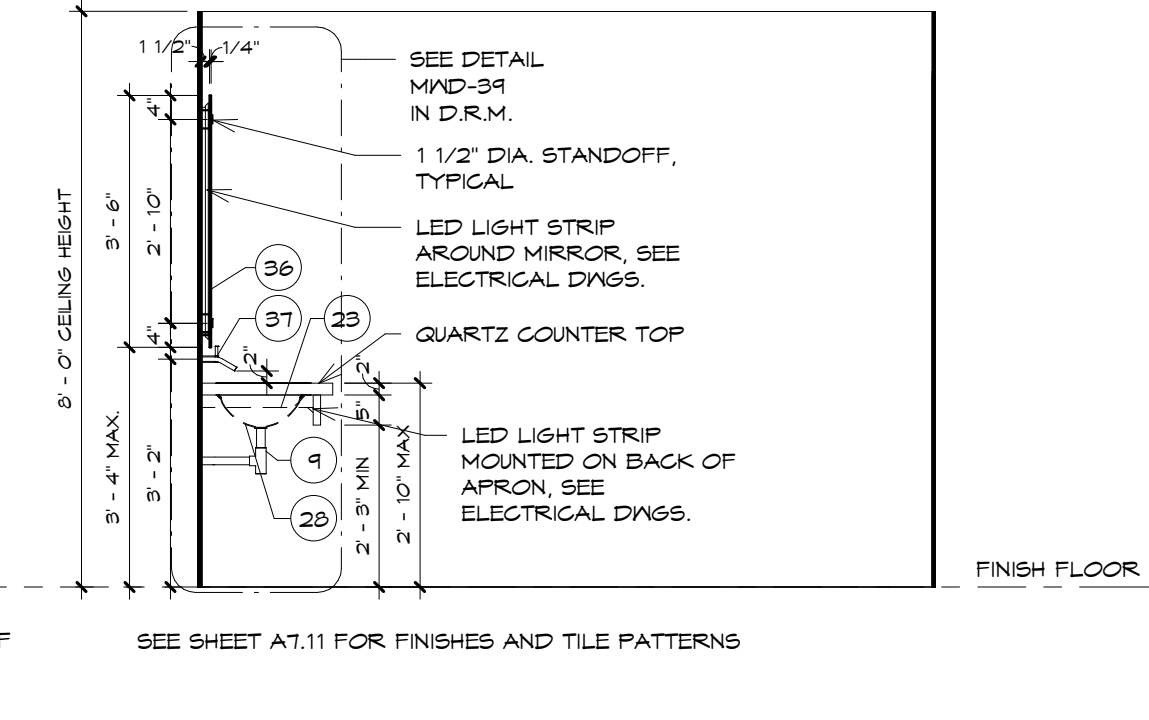
13 - ELEVATION - RESTROOM 141



14 - ELEVATION - RESTROOM 141



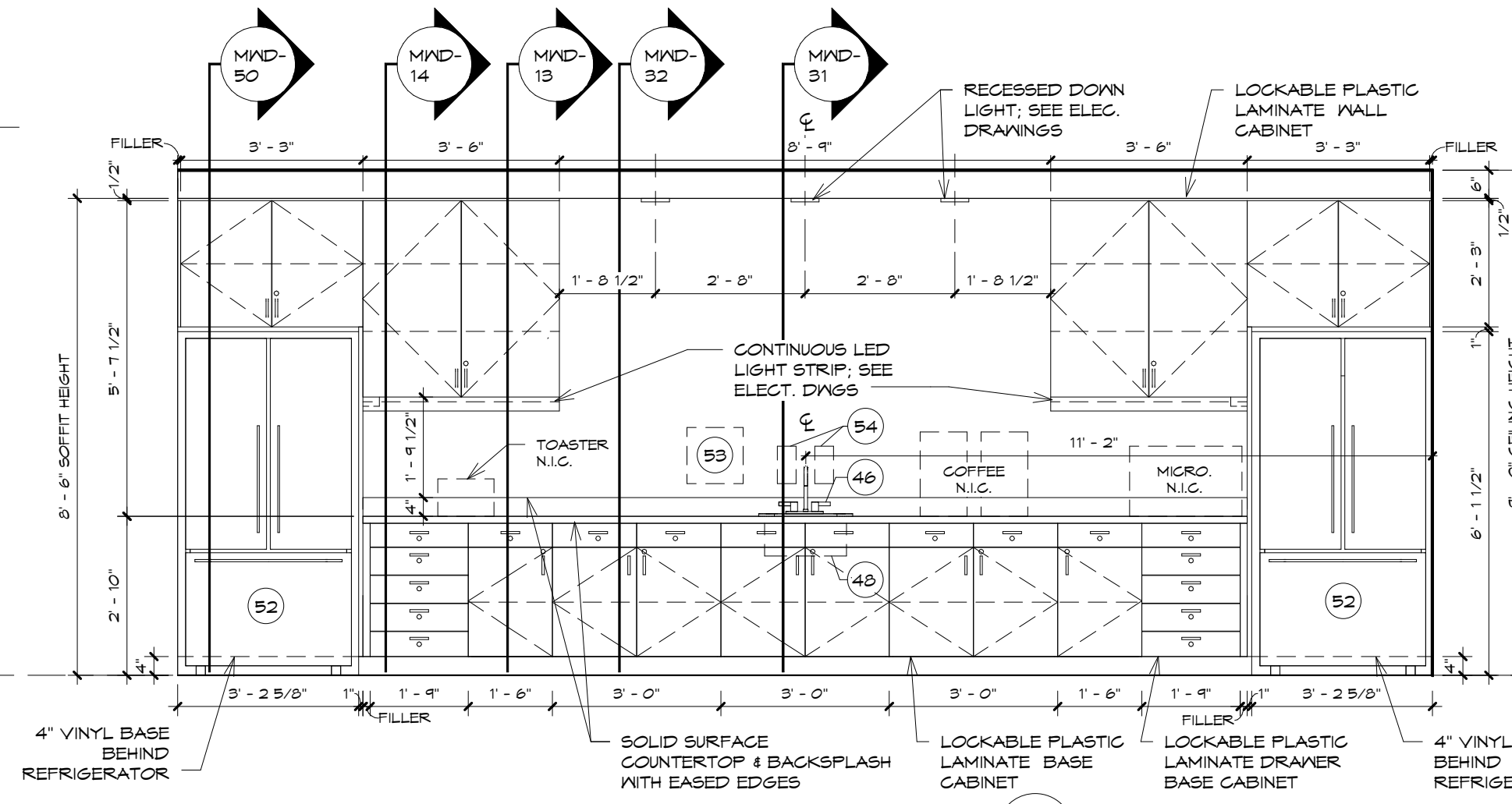
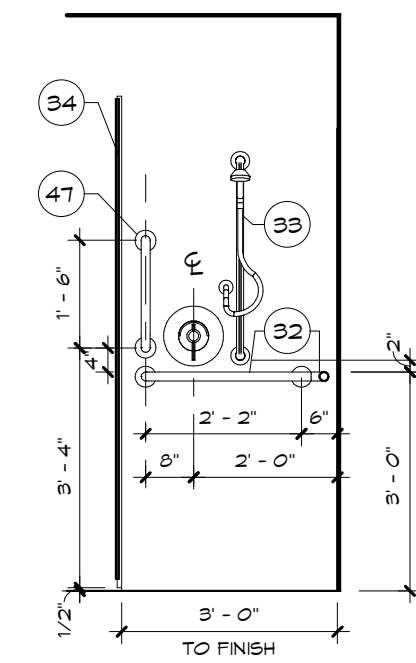
15 - ELEVATION - RESTROOM 141



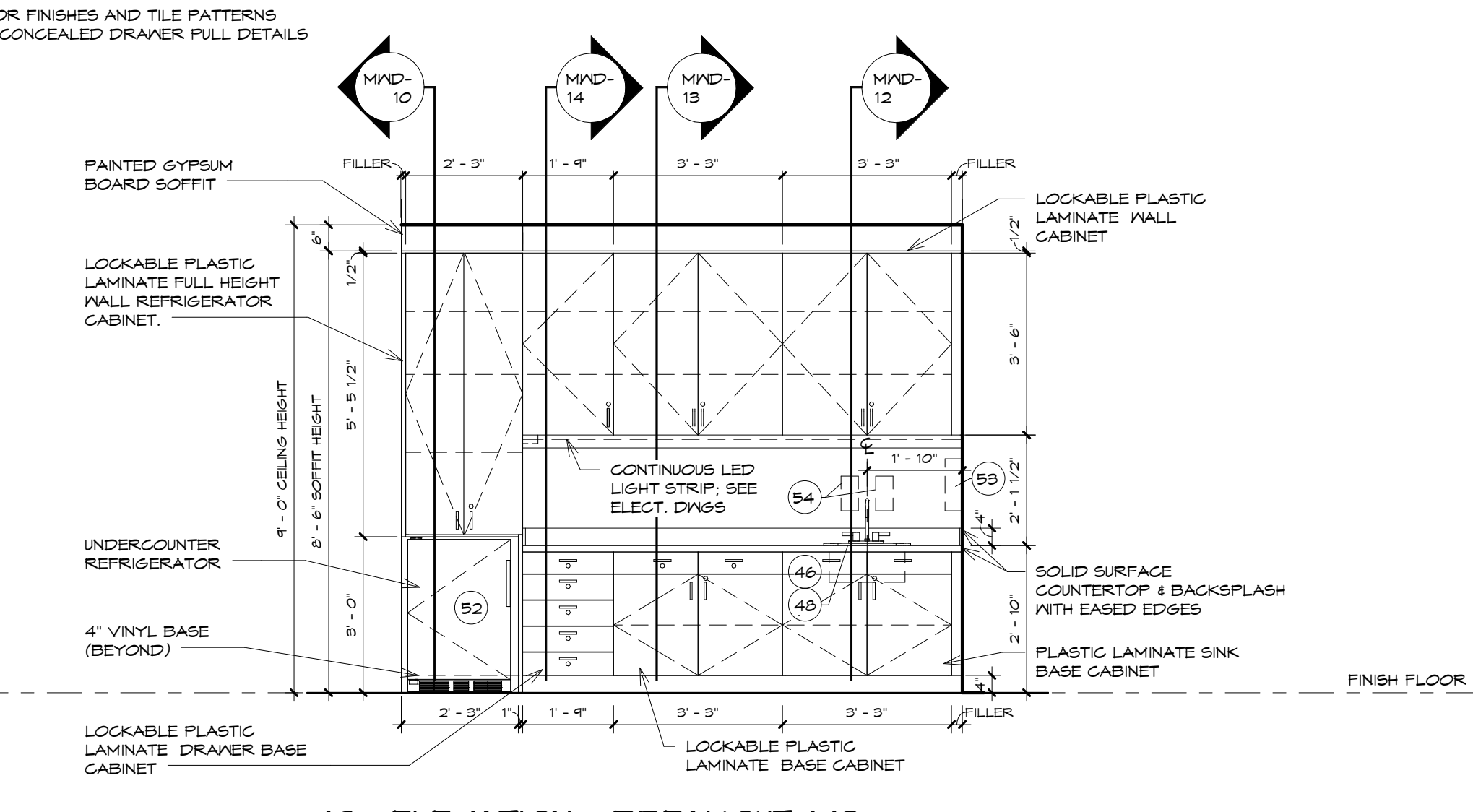
16 - ELEVATION - RESTROOM 141



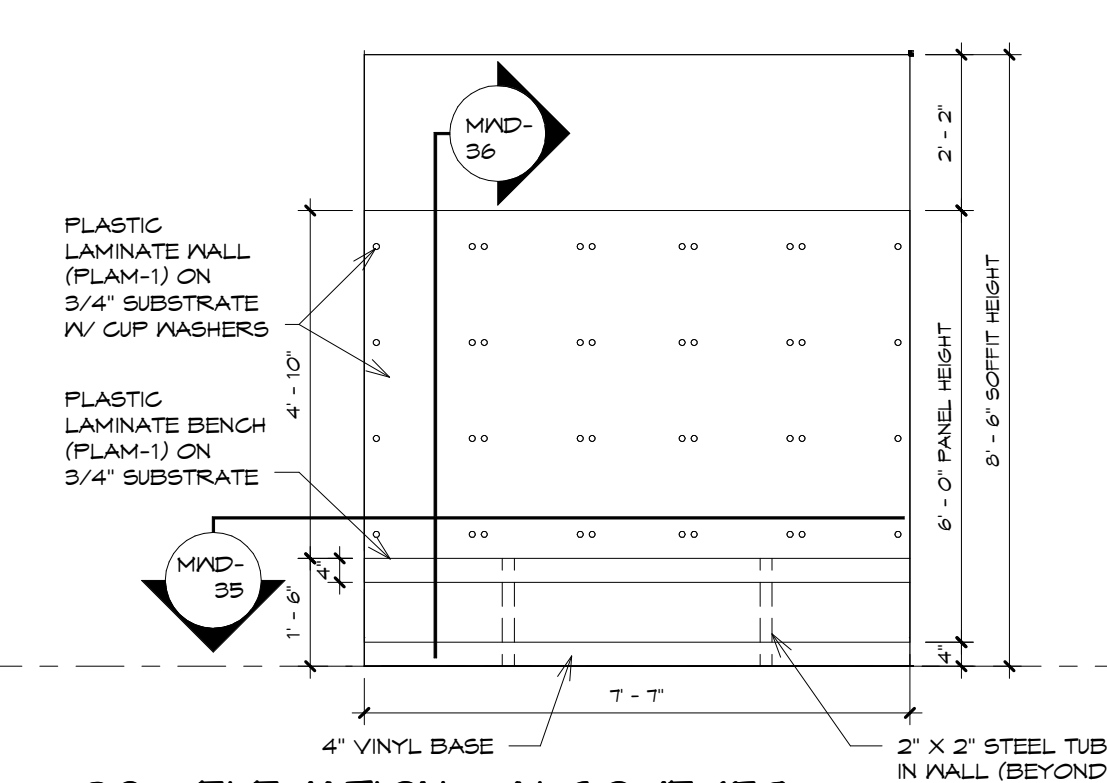
17 - ELEVATION - RESTROOM 141



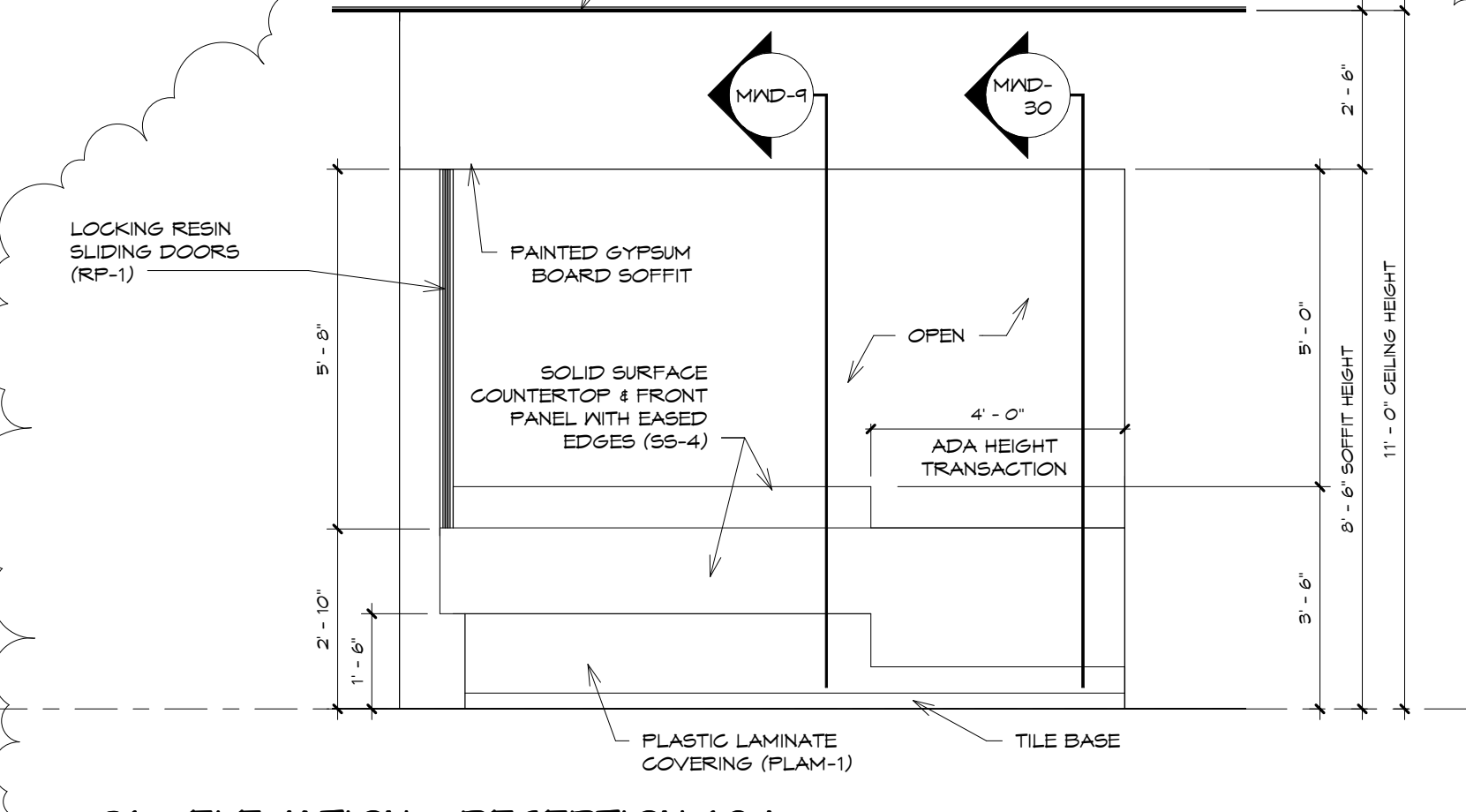
18 - ELEVATION - BREAKOUT 138



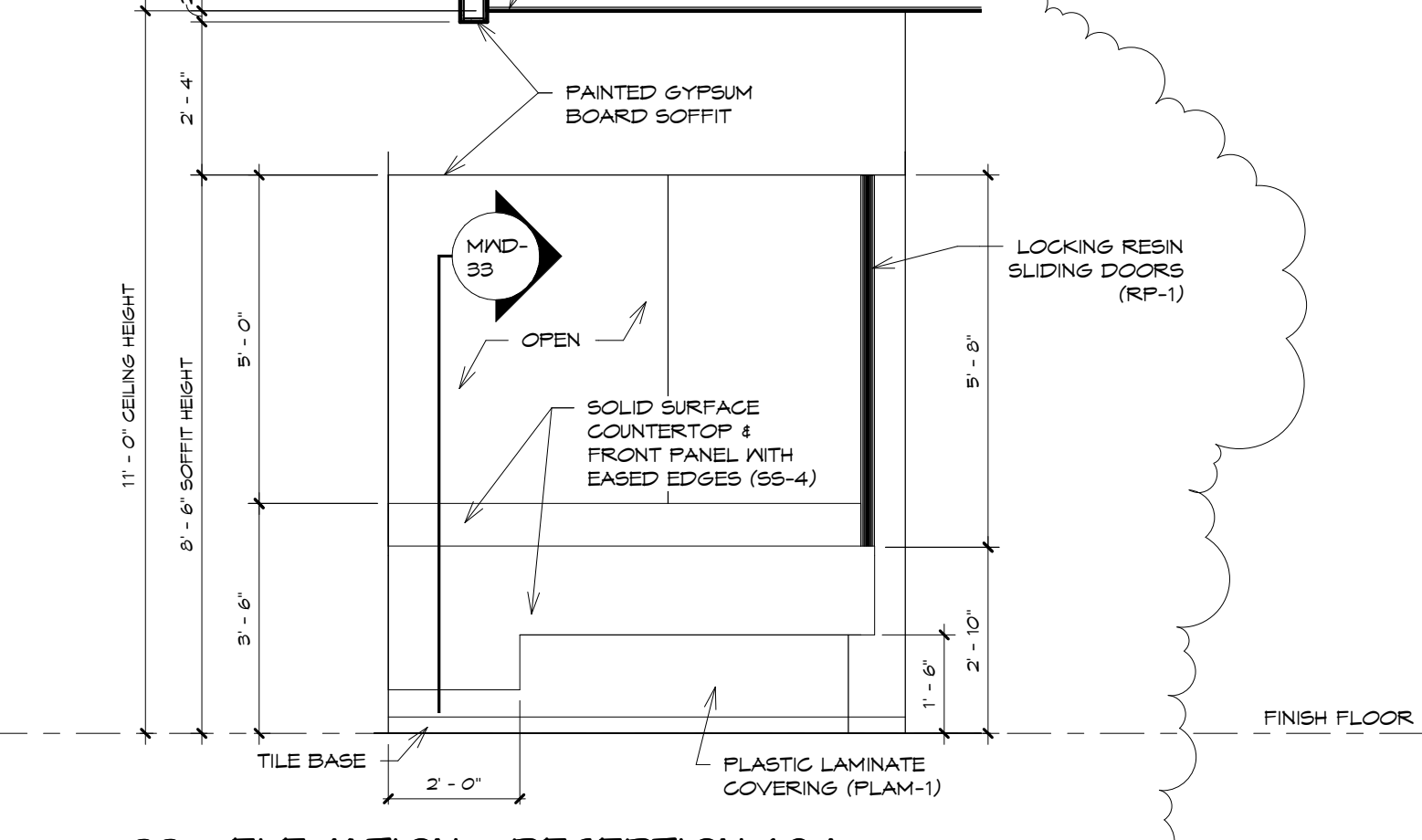
19 - ELEVATION - BREAKOUT 143



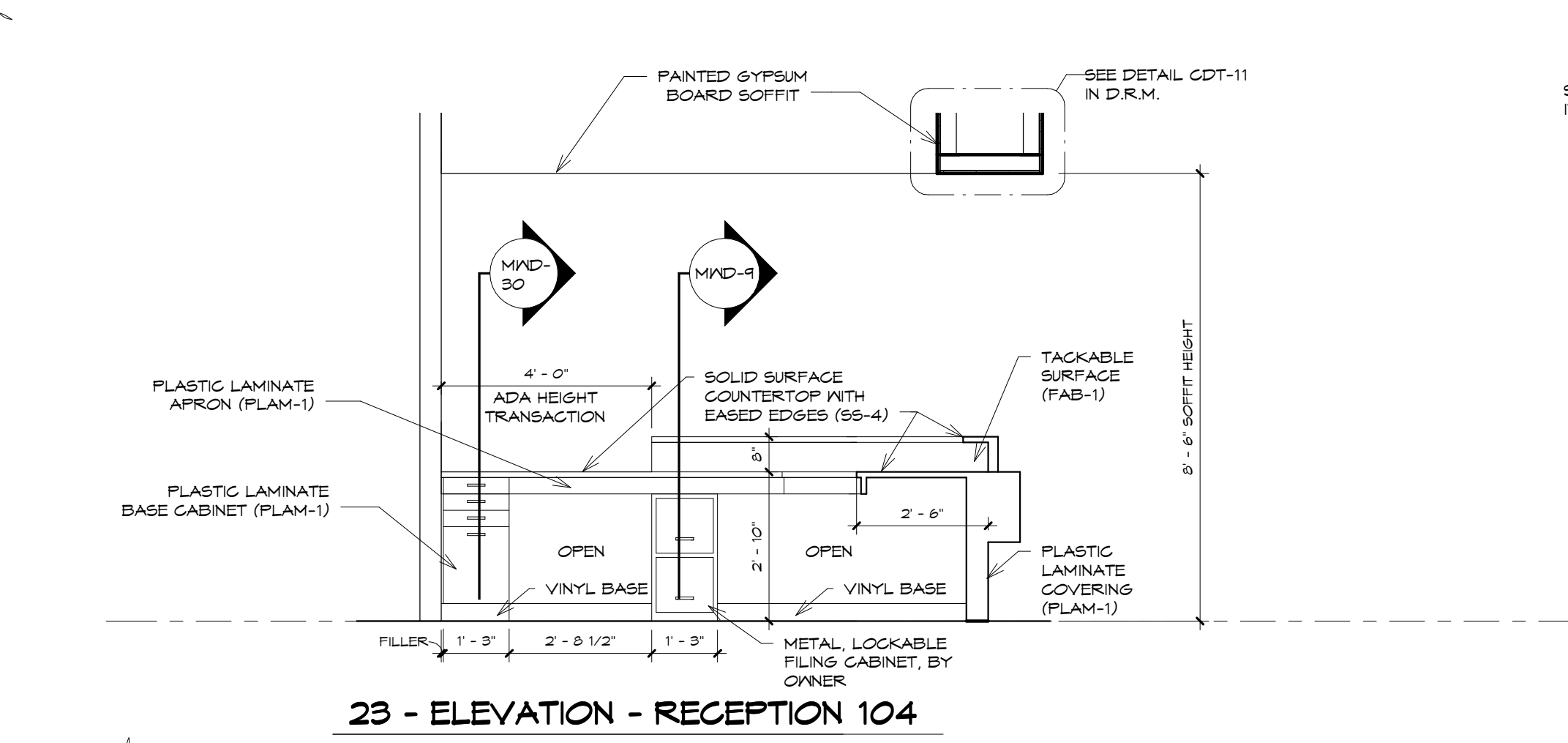
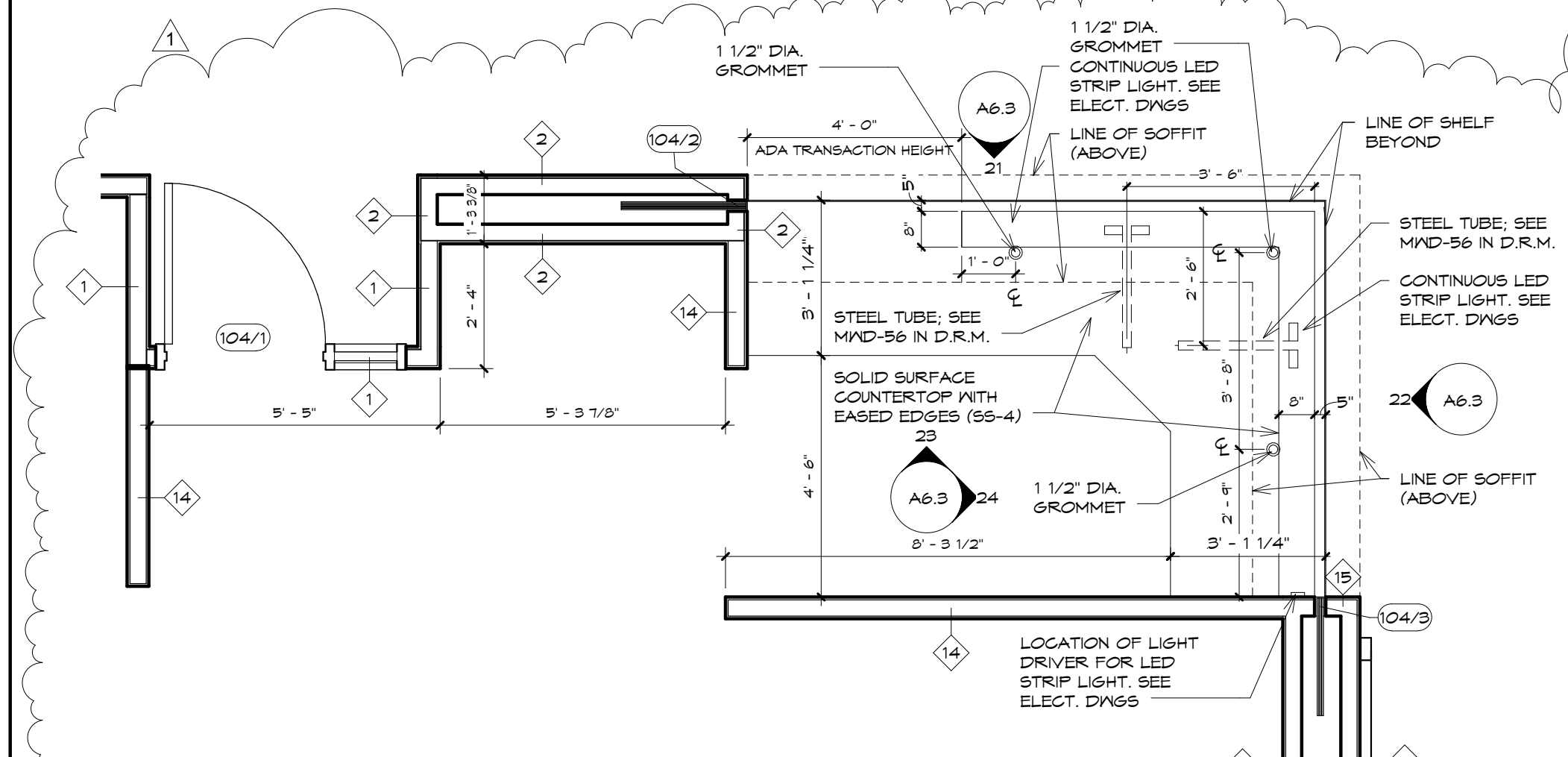
20 - ELEVATION - ALCOVE 159



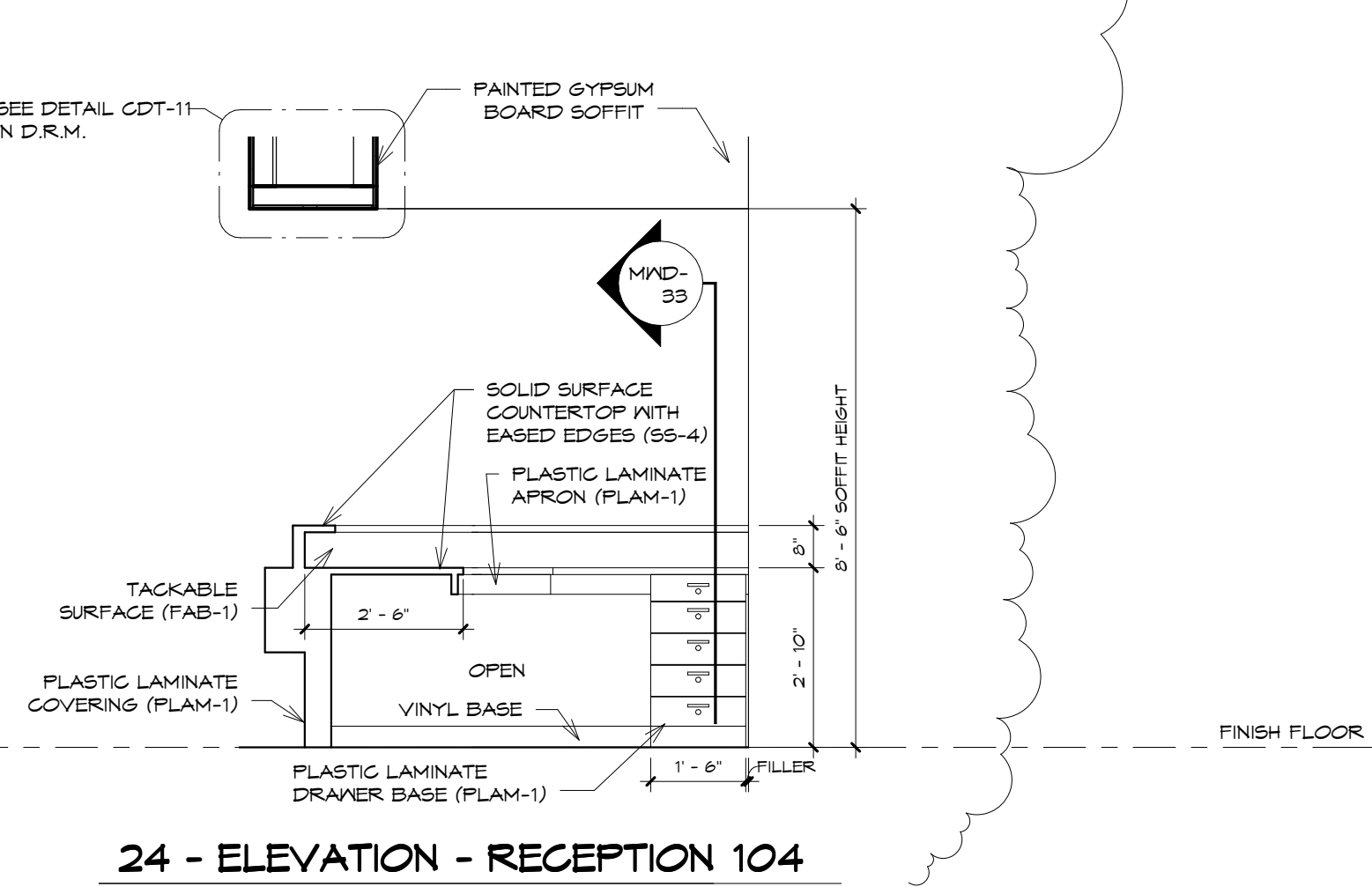
21 - ELEVATION - RECEPTION 104



22 - ELEVATION - RECEPTION 104



23 - ELEVATION - RECEPTION 104



24 - ELEVATION - RECEPTION 104

INTERIOR ELEVATIONS

SCALE: 3/8" = 1'-0"
NOTE: SEE SHEET L-1 THRU L-3 IN D.R.M. FOR LEGEND AND NEW CONSTRUCTION KEYNOTES

revisions		
no.	date	description
1	3/7/13	ADDENDUM #3

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**ALTERATIONS TO HAGG
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BUILDING**

HARRISBURG, PA

**LARGE SCALE FIRST
FLOOR PLANS &
INTERIOR ELEVATIONS**

**CONSTRUCTION
DOCUMENTS**

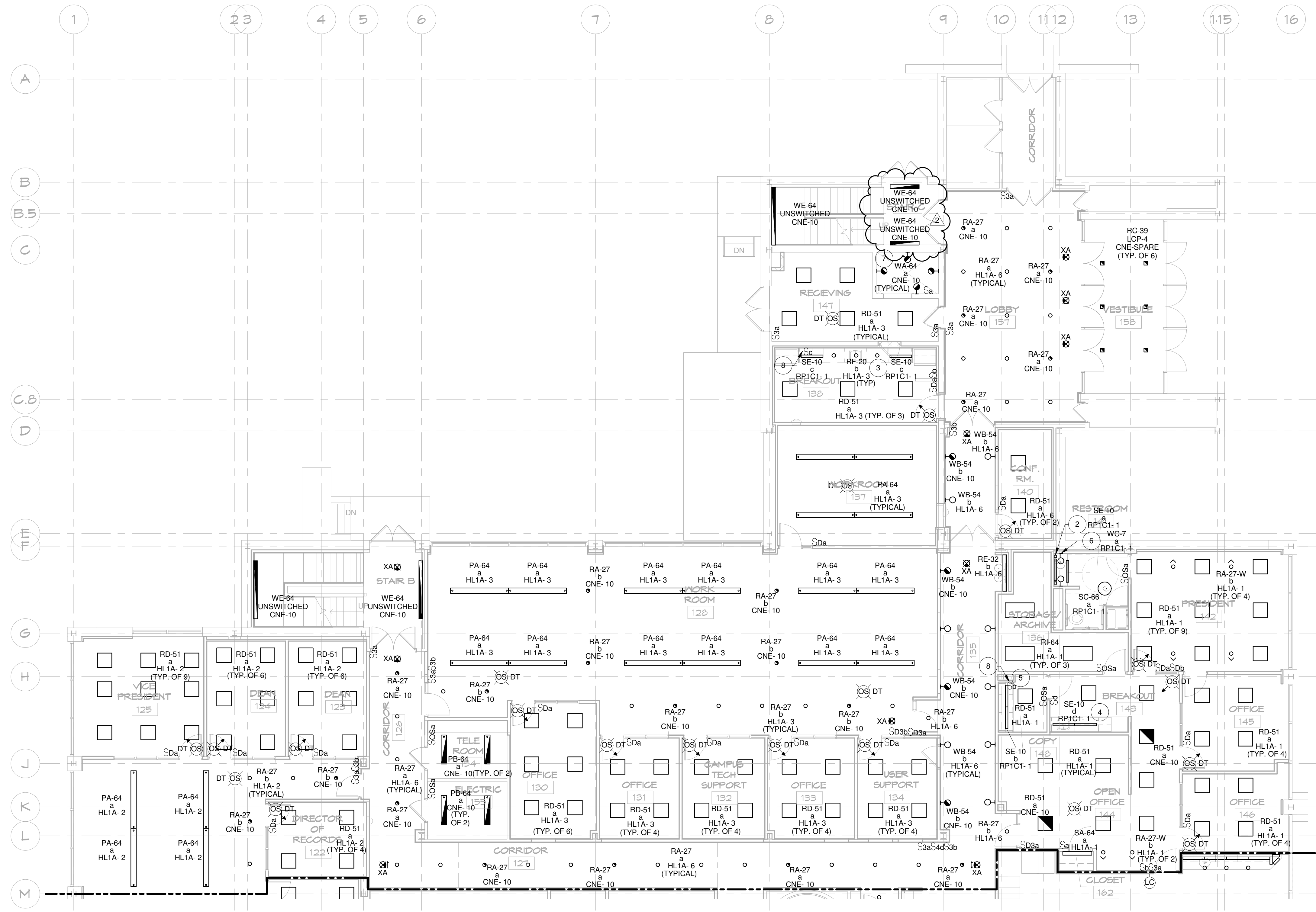
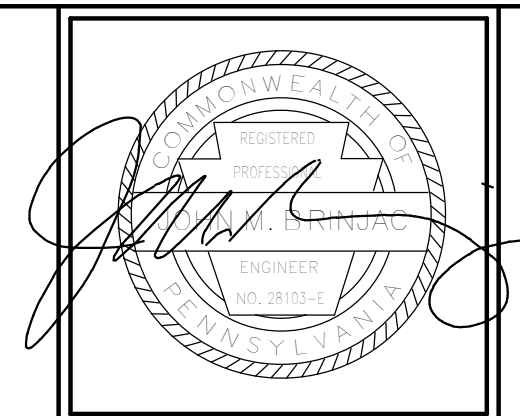
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DATE: FEBRUARY 8, 2013

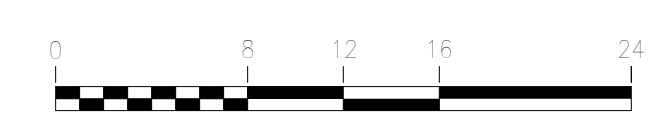
PROJECT NUMBER:
3395

SHEET NUMBER:
A6.3

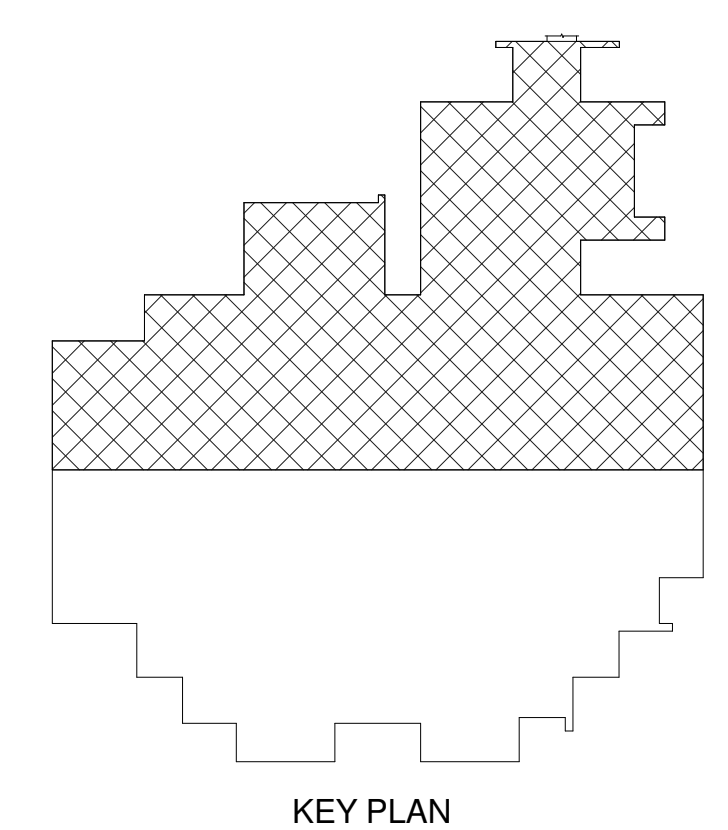
PHASE 3



FIRST FLOOR PLAN - SECTION A - LIGHTING
 1/8" = 1'-0"



NOTE:
 CONTRACTOR SHALL CHECK &
 VERIFY ALL DIMENSIONS &
 EXISTING CONDITIONS AT SITE.



GENERAL NOTES

1. ALL EXIT SIGNS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIFE SAFETY CIRCUIT.
2. ALL LIFE SAFETY LIGHTING SHALL BE PROVIDED WITH UL 924 AUTOMATIC LOAD CONTROL RELAYS PER THE STANDARD DETAILS. UNDER NON-EMERGENCY CONDITIONS LIFE SAFETY LIGHTING SHALL BE CONTROLLED WITH THE REST OF THE NORMAL FIXTURES AS SHOWN. UNDER EMERGENCY CONDITIONS THE LIFE SAFETY LIGHTING SHALL COME ON TO 100%.
3. ALL SENSOR LOCATIONS ARE DIAGRAMMATIC IN NATURE. ACTUAL SENSOR TYPE, QUANTITY, AND LOCATIONS SHALL BE PROVIDED FOR UBQUITOUS COVERAGE IN THE SPACES INDICATED. REFERENCE SS #18571 FOR SENSOR COVERAGE SHOP DRAWING REQUIREMENTS.
4. SWITCHES SHALL BE GANGED TOGETHER WHERE POSSIBLE.
5. PANEL CNE IS LOCATED IN THE THIRD FLOOR PENTHOUSE.
6. CLEAR AND RELAMP ALL EXISTING EXTERIOR LIGHTING WHICH IS TO REMAIN OPERATIONAL.
7. WIRE ALL UNDER CABINET LIGHTS OF TYPE SE-10 TO THE NEAREST UNSWITCHED 120 VOLT CIRCUIT AND PROVIDE A WALL SWITCH ABOVE THE COUNTER TO CONTROL ALL UNDER CABINET LIGHTS IN THE AREA.

KEYED NOTES:

1. DOWNLIGHTS OF TYPE RA-27 THROUGHOUT CORRIDOR.
2. SEE ARCHITECTURAL DETAILS 13, 14, 15, AND 16 ON SHEET A6.3 FOR INFORMATION ABOUT THIS MIRROR AND SINK FOR EXACT MOUNTING LOCATIONS OF FIXTURE TYPE SE-10 BEHIND MIRROR AND BELOW SINK. WIRE ALL MIRROR AND UNDER SINK LIGHTS TO THE SAME 120 VOLT CIRCUIT AND SWITCH AS FIXTURE TYPE SC-66.
3. SEE ARCHITECTURAL DETAIL 18 ON SHEET A6.3 FOR EXACT LOCATION OF DOWNLIGHT TYPE RP-20 AND THE EXACT LOCATION AND LENGTH OF UNDER CABINET FIXTURE SE-10.
4. SEE ARCHITECTURAL DETAIL 19 ON SHEET A6.3 FOR EXACT LOCATION AND LENGTH OF UNDER CABINET LIGHT TYPE SE-10.
5. SEE ARCHITECTURAL DETAIL 28 ON SHEET A6.3 FOR EXACT LOCATION AND LENGTH OF UNDER CABINET LIGHT TYPE SE-10.
6. MOUNT JUNCTION BOX FOR FIXTURE TYPE WC-7 AT 5'-6" A.F.F. TWO FIXTURES OF TYPE WC-7 SHALL BE 120 VOLTS IN THIS LOCATION ONLY.
7. PROVIDE SINGLE POLE SWITCH FOR ELEVATOR SHAFT LIGHTING. LOCATE IN THE FIELD. COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ALL OTHER TRADES.
8. PROVIDE SINGLE POLE SWITCH FOR UNDER CABINET LIGHTS. SWITCH SHALL BE IN LINE WITH RECEPTACLES ABOVE THE COUNTER. UNDER CABINET LIGHTS SHALL BE FED WITH CLOSEST UNSWITCHED 120VAC BRANCH CIRCUIT.

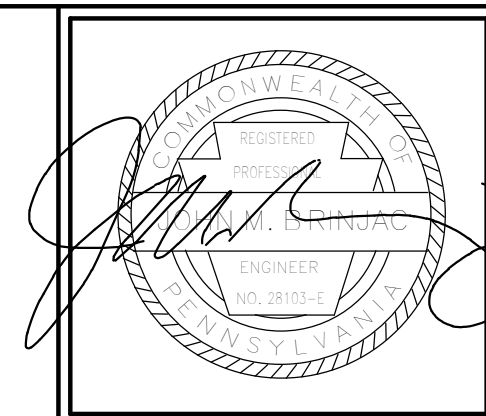
no.	date	description
1	03/12/13	Addendum #2
2	03/07/2013	Addendum # 3



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PROJECT NAME
**HACC CENTRAL ADMINISTRATION BUILDING
 PHASE 3 -
 MUMMA HALL RENOVATIONS**
 HARRISBURG, PA

DATE
 02/08/2013
 DRAWN BY
 RJJ
 CHECKED/APPROVED BY
 SDG
 BRINJAC PROJ. NUMBER
 12113
 DRAWING NUMBER
 FIRST FLOOR PLAN
 - SECTION A -
 LIGHTING

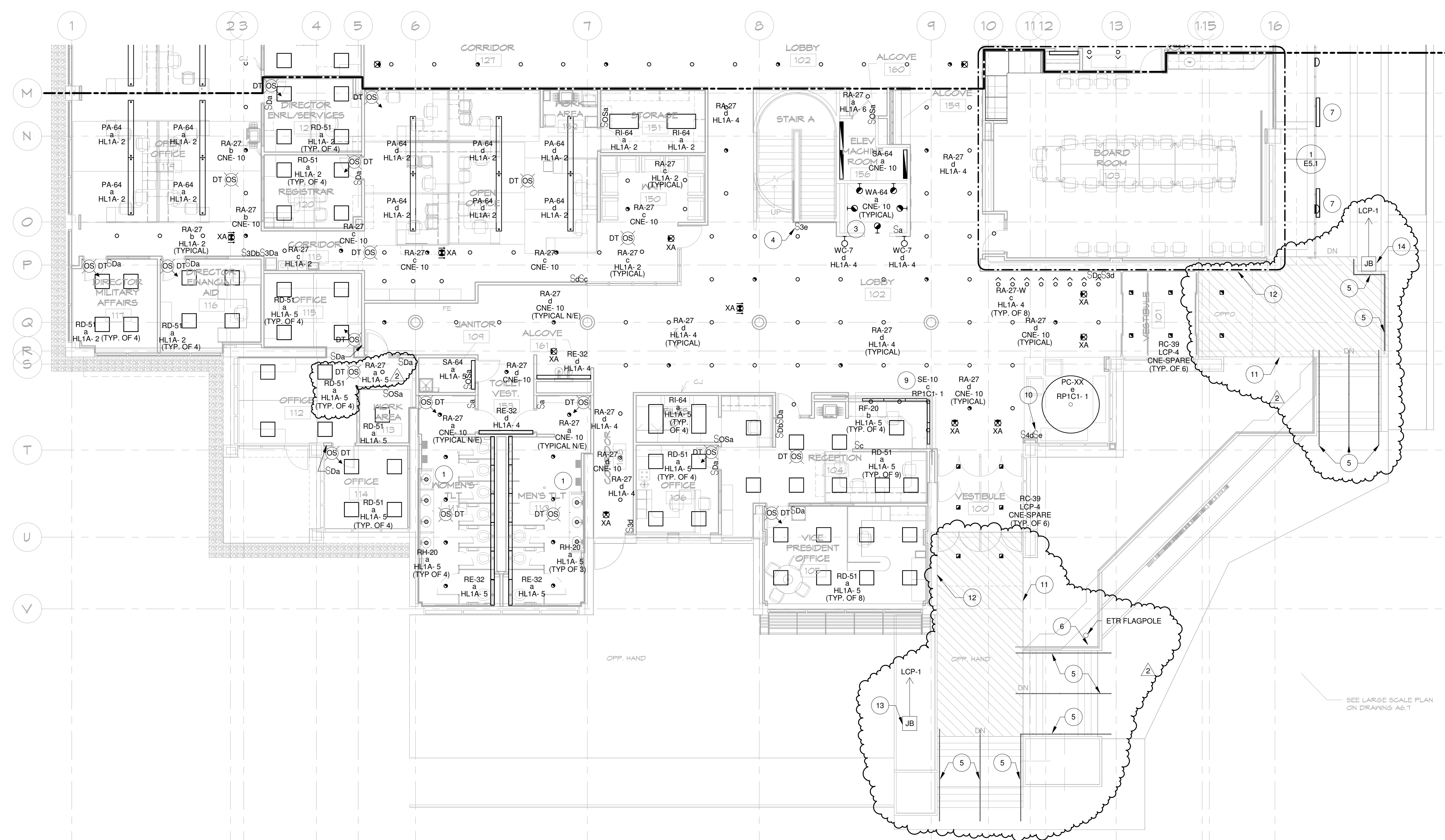


GENERAL NOTES

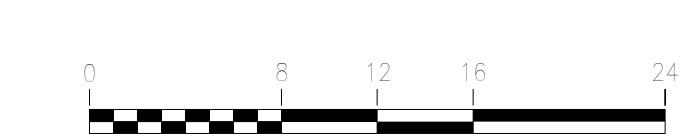
- ALL EXIT SIGNS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIFE SAFETY CIRCUIT.
- ALL LIFE SAFETY LIGHTING SHALL BE PROVIDED WITH UL 924 AUTOMATIC LOAD CONTROL RELAYS PER THE STANDARD DETAILS. UNDER NON-EMERGENCY CONDITIONS LIFE SAFETY LIGHTING SHALL BE CONTROLLED WITH THE REST OF THE NORMAL FIXTURES AS SHOWN. UNDER EMERGENCY CONDITIONS THE LIFE SAFETY LIGHTING SHALL COME ON TO 100%.
- ALL SENSOR LOCATIONS ARE DIAGRAMMATIC IN NATURE. ACTUAL SENSOR TYPE, QUANTITY, AND LOCATIONS SHALL BE PROVIDED FOR UBIQUITOUS COVERAGE IN THE SPACES INDICATED. REFERENCE SS #16571 FOR SENSOR COVERAGE SHOP DRAWING REQUIREMENTS.
- SWITCHES SHALL BE GANGED TOGETHER WHERE POSSIBLE.
- PANEL ONE IS LOCATED IN THE THIRD FLOOR PENTHOUSE.
- CLEAR AND RELAMP ALL EXISTING EXTERIOR LIGHTING WHICH IS TO REMAIN OPERATIONAL.
- WIRE ALL UNDER CABINET LIGHTS OF TYPE SE-10 TO THE NEAREST UNSWITCHED 120 VOLT CIRCUIT AND PROVIDE A WALL SWITCH ABOVE THE COUNTER TO CONTROL ALL UNDER CABINET LIGHTS IN THE AREA.

KEYED NOTES:

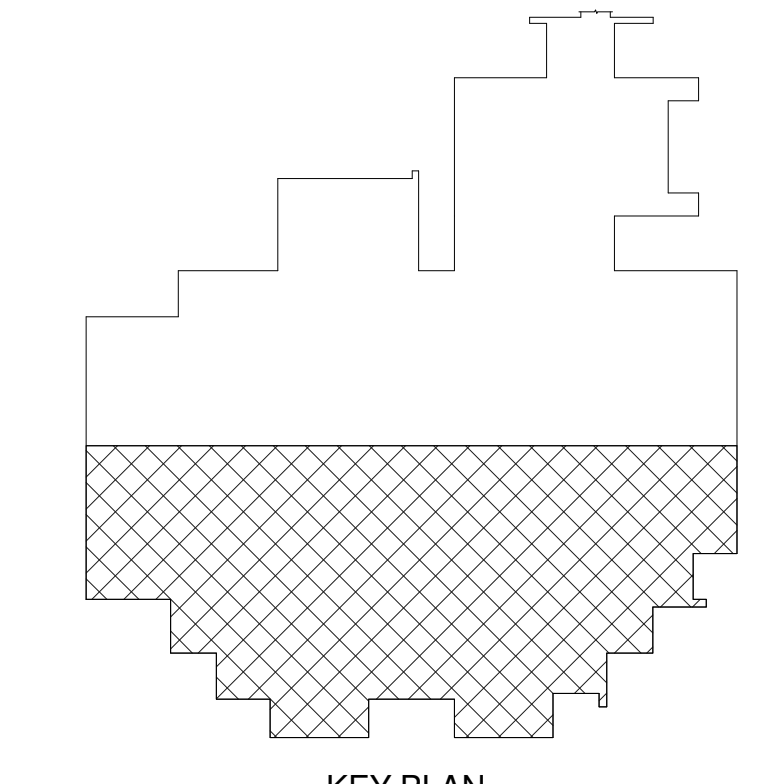
- ALIGN EACH DOWNLIGHT OF TYPE RH-20 TO BE DIRECTLY CENTERED ABOVE EACH SINK.
- REFERENCE SHEET ES.1 FOR LIGHTING CONTROL REQUIREMENTS IN THIS SPACE.
- PROVIDE SINGLE POLE SWITCH FOR ELEVATOR SHAFT LIGHTING. LOCATE IN THE FIELD. COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ALL OTHER TRADES.
- 3-WAY SWITCH SHALL CONTROL STAIR LIGHTS ABOVE REFERENCE SHEET 12.2.
- PROVIDE CONNECTION TO LED RAILING(S) (PROVIDED BY OTHER) WITH (2) #12 AND (1) #12 GROUND IN SUBGRADE PVC COATED RIGID CONDUIT. WIRE BACK TO LED DRIVERS AS SHOWN. PROVIDE FITTINGS AS REQUIRED. COORDINATE INSTALLATION OF CONDUIT WITH GC WORK. REFERENCE KEYED NOTE 11.
- PROVIDE WEATHERPROOF NEMA 5-20R RECEPTACLE ON CONDUIT STUB UP FOR ONLY THE AMERICAN FLAG POLE. ALL OTHER FLAG POLES WILL BE REMOVED BY OTHERS. PROVIDE (2) #12 AND (1) #12 GROUND IN PVC COATED RIGID CONDUIT (TRANSITION TO EMT WHEN INSIDE) BACK TO RELAY LCP-3 LOCATED IN THE MECHANICAL PENTHOUSE. PROVIDE FITTINGS AS REQUIRED. CUT, REPAIR, AND REFINISH PATIO CONCRETE IN-KIND BACK TO THE HATCHED NEW PATIO. REFERENCE KEYED NOTE 11.
- RELOCATE EXISTING STAP LIGHT TO NEW POSITION AS SHOWN ON THE ARCHITECTURAL ELEVATIONS. EXTEND EXISTING WIRING AS NEEDED.
- NOT USED
- SEE DETAILS ON SHEET A6.4 FOR EXACT LENGTH AND MOUNTING DETAILS OF FIXTURE TYPE SE-10.
- PROVIDE SINGLE POLE SWITCH FOR FIXTURE PC-XX. CONNECT TO NEAREST UNSWITCHED 120VAC BRANCH SUBUP.
- NEW CONCRETE PATIO PER ARCHITECTURAL AND STRUCTURAL DRAWINGS. FOR REFERENCE ONLY. COORDINATE CONDUIT PLACEMENT WHEN EXISTING CONCRETE HAS BEEN DEMOLISHED.
- PENETRATE THE BUILDING BELOW GRADE WITH CORE DRILL AND SEAL. STUB UP IN NEAREST FURRED WALL THEN ON TO PANEL BOARDS AS REQUIRED. DEMOLISH, REPAIR AND REFINISH THE INTERIOR SLAB IN KIND AS REQUIRED TO GET CONDUITS UP IN FURRED WALL.
- PROVIDE IN-GRADE QUARTZITE BOX (SIZE AS REQUIRED) IN THE PLATTER FOR LED RAILING DRIVERS. LOCATE IN THE FIELD. LED DRIVERS SHALL BE FURNISHED BY OTHERS AND INSTALLED BY THE EC. PROVIDE (2) #12 AND (1) #12 GROUND IN PVC COATED RIGID CONDUIT (TRANSITION TO EMT INSIDE) TO LCP-1 IN THE MECHANICAL PENTHOUSE. ROUTE UNDERNEATH NEW PATIO AS NOTED.
- PROVIDE SURFACE MOUNTED NEMA 4X STAINLESS STEEL JUNCTION BOX (SIZE AS REQUIRED) FOR LED RAILING DRIVERS. LOCATE IN THE FIELD. LED DRIVERS SHALL BE FURNISHED BY OTHERS AND INSTALLED BY THE EC. PROVIDE (2) #12 AND (1) #12 GROUND IN PVC COATED RIGID CONDUIT (TRANSITION TO EMT INSIDE) TO LCP-1 IN THE MECHANICAL PENTHOUSE. ROUTE UNDERNEATH NEW PATIO AS NOTED.



FIRST FLOOR PLAN - SECTION B - LIGHTING
1/8" = 1'-0"



NOTE:
CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS & EXISTING CONDITIONS AT SITE.



no.	date	description
1	03/17/2013	ADDENDUM #2
2	03/07/2013	ADDENDUM #3

CONSTRUCTION MANAGER
EASTERN PCM, LLC

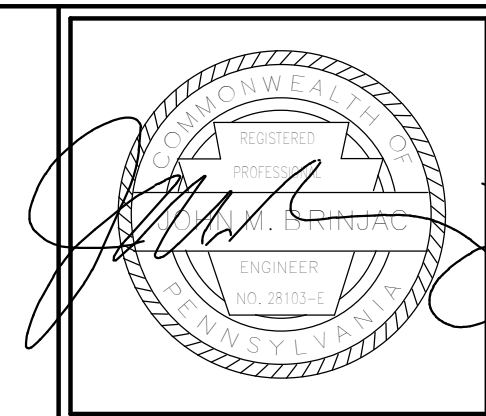
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PROJECT NAME
**HACC CENTRAL ADMINISTRATION BUILDING
PHASE 3 -
MUMMA HALL RENOVATIONS**
HARRISBURG, PA

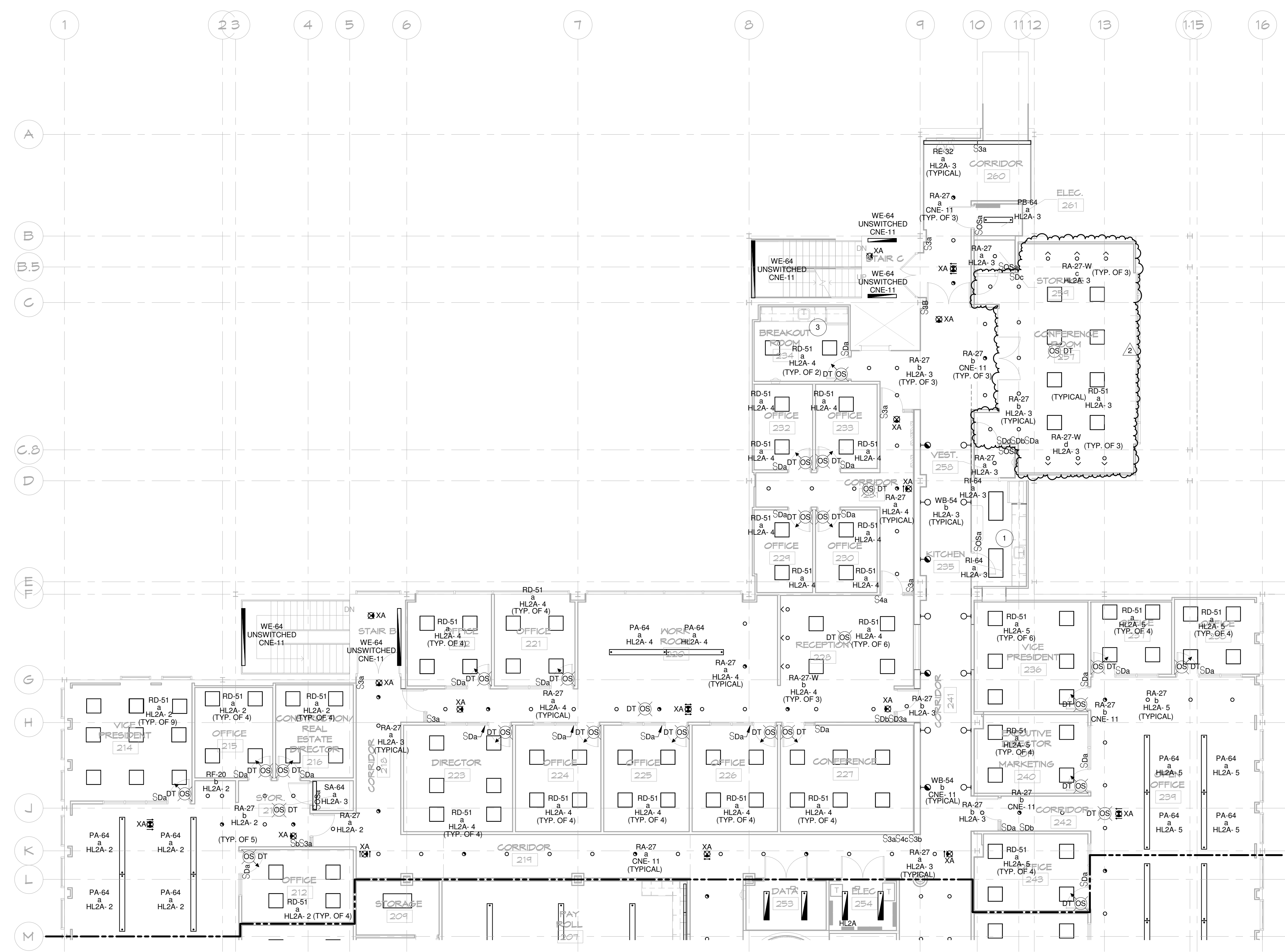
DATE	02/08/2013
DRAWN BY	RJJ
CHECKED/APPROVED BY	SDG
BRINJAC PROJ. NUMBER	12113
DRAWING NUMBER	

FIRST FLOOR PLAN - SECTION B - LIGHTING

EL2.4



no.	date	description
1	03/17/2013	ADDENDUM #2
2	03/07/2013	ADDENDUM #3



GENERAL NOTES

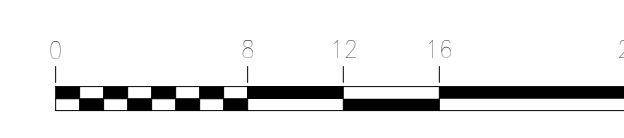
1. ALL EXIT SIGNS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIFE SAFETY CIRCUIT.
2. ALL LIFE SAFETY LIGHTING SHALL BE PROVIDED WITH UL 924 AUTOMATIC LOAD CONTROL RELAYS PER THE STANDARD DETAILS. UNDER NON-EMERGENCY CONDITIONS LIFE SAFETY LIGHTING SHALL BE CONTROLLED WITH THE REST OF THE NORMAL FIXTURES AS SHOWN. UNDER EMERGENCY CONDITIONS THE LIFE SAFETY LIGHTING SHALL COME ON TO 100%.
3. ALL SENSOR LOCATIONS ARE DIAGRAMMATIC IN NATURE. ACTUAL SENSOR TYPE, QUANTITY, AND LOCATIONS SHALL BE PROVIDED FOR UBQUITOUS COVERAGE IN THE SPACES INDICATED. REFERENCE SS #16571 FOR SENSOR COVERAGE SHOP DRAWING REQUIREMENTS.
4. SWITCHES SHALL BE GANGED TOGETHER WHERE POSSIBLE.
5. PANEL CNE IS LOCATED IN THE THIRD FLOOR PENTHOUSE.
6. CLEAR AND RELAMP ALL EXISTING EXTERIOR LIGHTING WHICH IS TO REMAIN OPERATIONAL.
7. WIRE ALL UNDER CABINET LIGHTS OF TYPE SE-10 TO THE NEAREST UNSWITCHED 120 VOLT CIRCUIT AND PROVIDE A WALL SWITCH ABOVE THE COUNTER TO CONTROL ALL UNDER CABINET LIGHTS IN THE AREA.

KEYED NOTES:

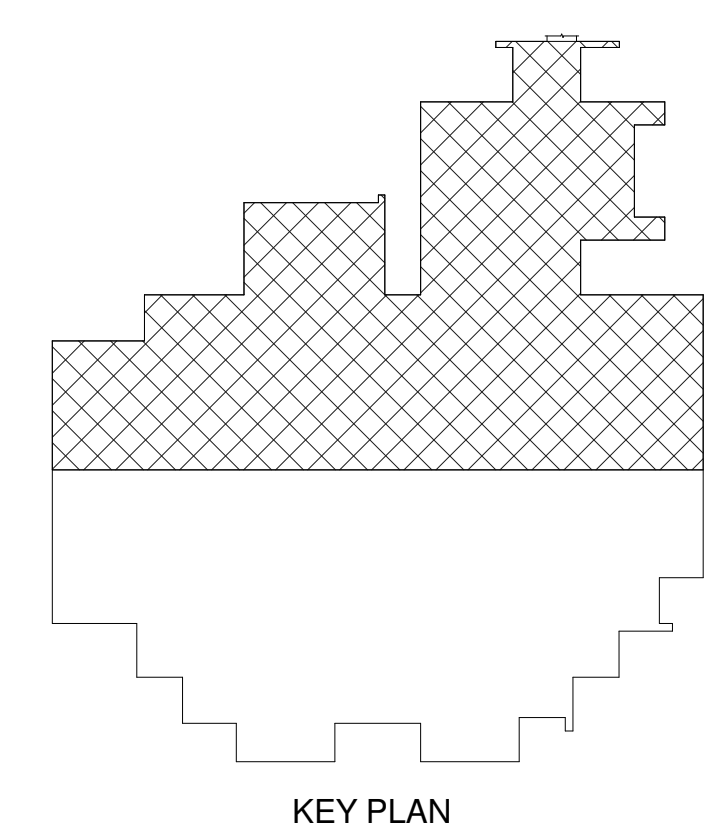
- 1 SEE ARCHITECTURAL SHEET A6.4 DETAIL 30 FOR EXACT LOCATION AND LENGTH OF UNDERCABINET FIXTURE SE-10.
- 2 NOT USED
- 3 SEE ARCHITECTURAL SHEET A6.4 DETAIL 29 FOR EXACT LOCATION AND LENGTH OF UNDERCABINET FIXTURE SE-10.

SECOND FLOOR PLAN - SECTION A - LIGHTING

1/8" = 1'-0"



NOTE:
CONTRACTOR SHALL CHECK &
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EXISTING CONDITIONS AT SITE.



KEY PLAN

revisions

CONSTRUCTION MANAGER

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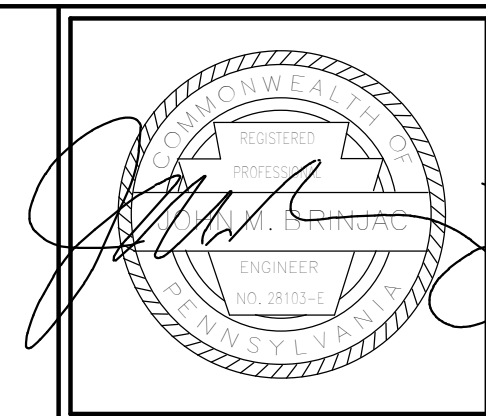
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Fax: (717) 263-9833
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PROJECT NAME

**HACC CENTRAL ADMINISTRATION BUILDING
PHASE 3 -
MUMMA HALL RENOVATIONS**

HARRISBURG, PA

DATE	02/08/2013
DRAWN BY	RJJ
CHECKED/APPROVED BY	SDG
BRINJAC PROJ. NUMBER	12113
DRAWING NUMBER	SECOND FLOOR PLAN - SECTION A - LIGHTING
EL2.5	



no.	date	description
1	03/11/2013	ADDENDUM #2
2	03/07/2013	ADDENDUM #3

CONSTRUCTION MANAGER
EASTERN PCMC, LLC

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PROJECT NAME
**HACC CENTRAL ADMINISTRATION BUILDING
 PHASE 3 -
 MUMMA HALL RENOVATIONS**
 HARRISBURG, PA

DATE
 02/08/2013
 DRAWN BY
 RJJ
 CHECKED/APPROVED BY
 SDG
 BRINJAC PROJ. NUMBER
 12113

DRAWING NUMBER
 SECOND FLOOR
 PLAN - SECTION B -
 LIGHTING

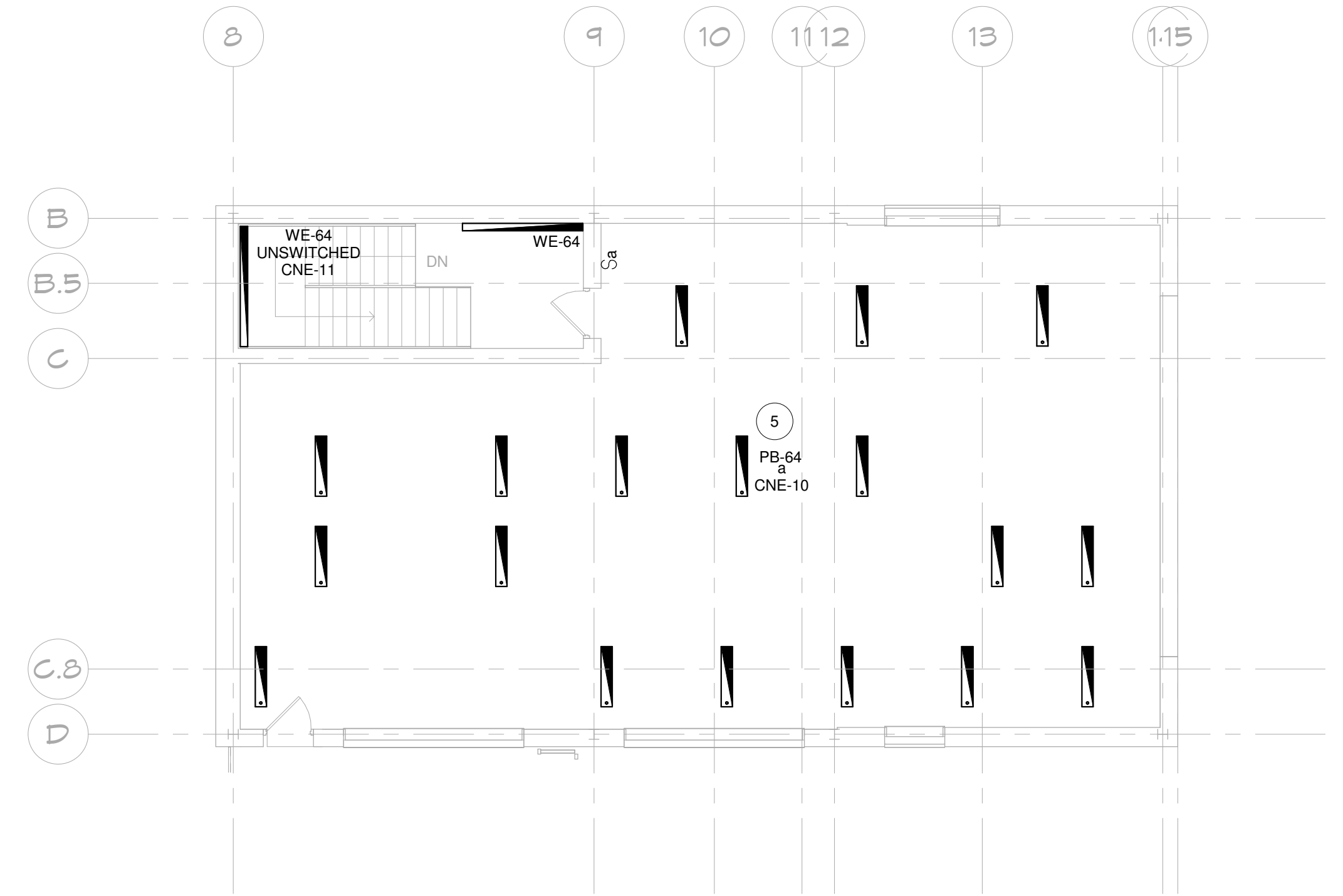
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GENERAL NOTES

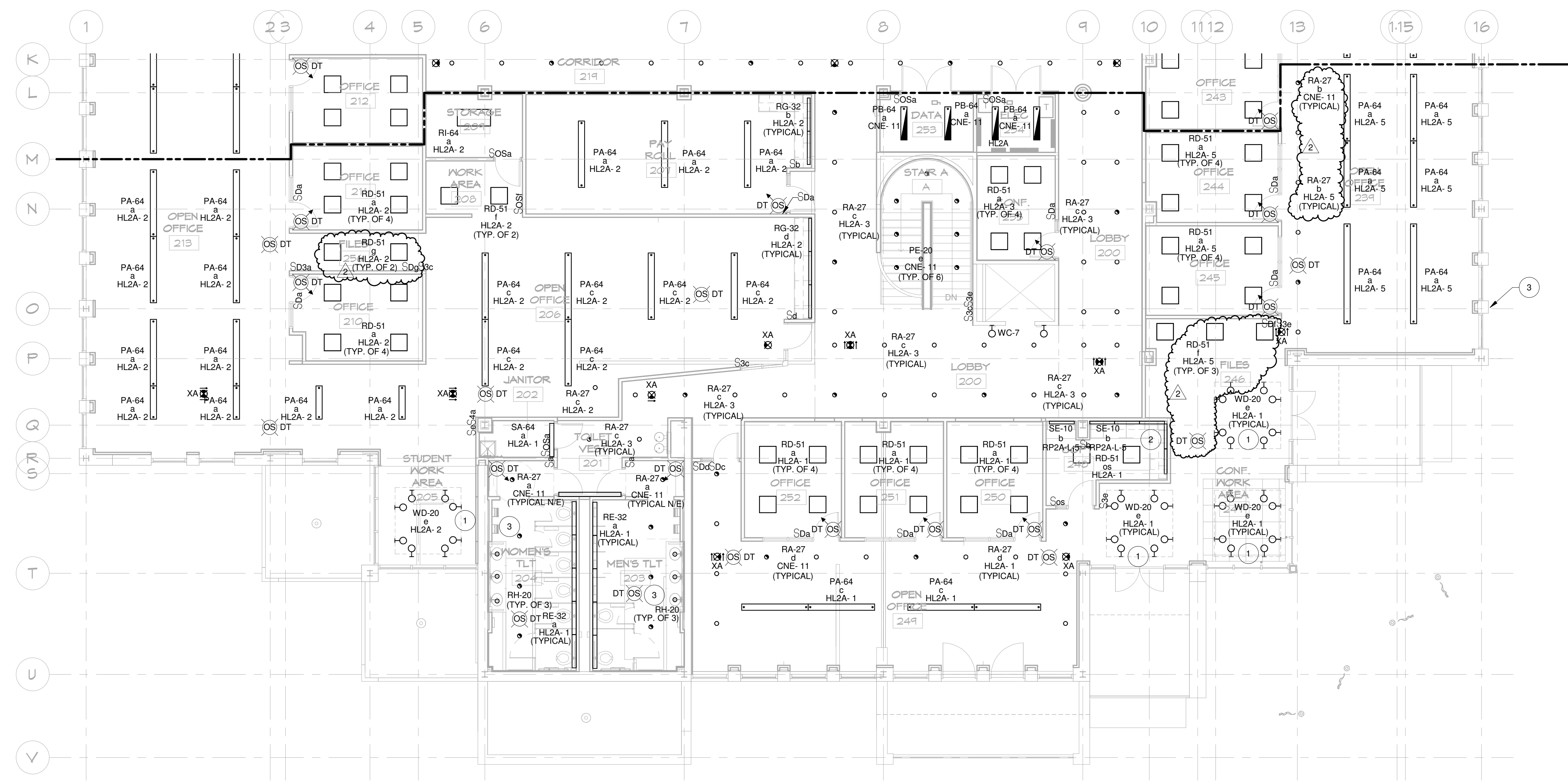
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- WIRE ALL UNDER CABINET LIGHTS OF TYPE SE-10 TO THE NEAREST UNSWITCHED 120 VOLT CIRCUIT AND PROVIDE A WALL SWITCH ABOVE THE COUNTER TO CONTROL ALL UNDER CABINET LIGHTS IN THE AREA.

KEYED NOTES:

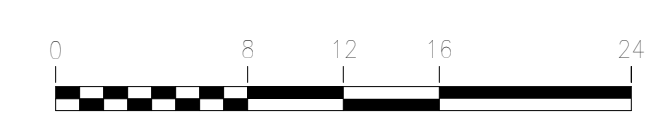
- FIXTURES MOUNTED TO THE INSIDE FACE OF THE SKYLIGHT.
- SEE DETAILS ON SHEET A6.4 FOR EXACT LENGTH AND MOUNTING DETAILS OF FIXTURE TYPE SE-10.
- PROVIDE EXTERIOR MOUNTED JUNCTION BOX MOUNTED JUST ABOVE THE ARCHITECTURAL SUN SHADE. PROVIDE (2) #12 AND (1) #12 GROUND TO RELAY LCP1A-3 LOCATED IN THE MECHANICAL PENTHOUSE.
- ALIGN EACH DOWNLIGHT OF TYPE RH-20 TO BE DIRECTLY CENTERED ABOVE EACH SINK.
- REMOVE AND DISPOSE OF ALL LIGHTING AND ASSOCIATED WIRING AND DEVICES IN THE AREA. COORDINATE FINAL MOUNTING OF ALL FIXTURES OF TYPE PB-64 IN THIS AREA WITH OTHER TRADES. MOUNT THE BOTTOM OF THE FIXTURE AT HIGH AS POSSIBLE BUT NOT TO EXCEED 9'-0". DO NOT MOUNT THE FIXTURE BELOW 6'-6" ABOVE FINISH FLOOR.



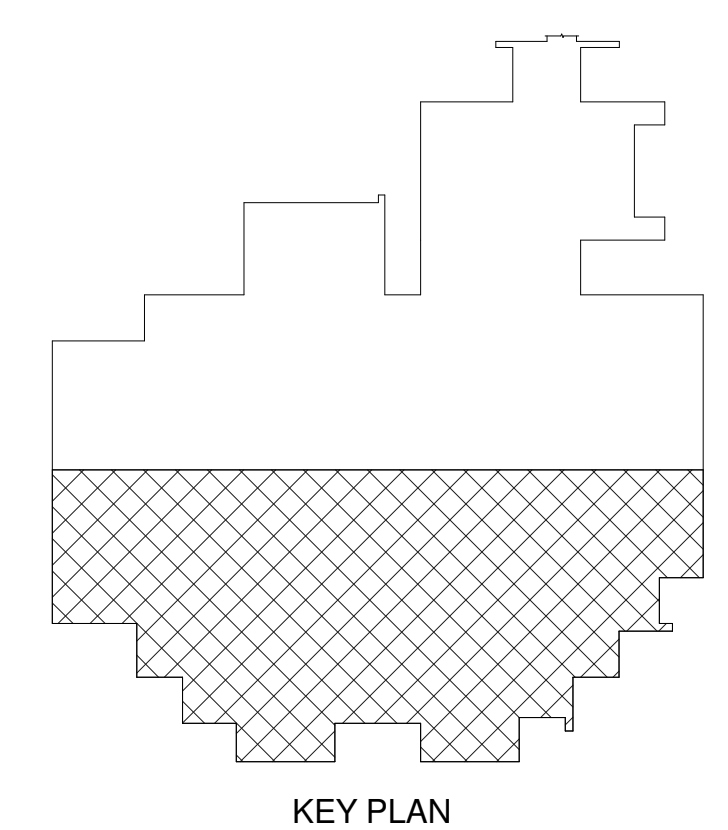
PENTHOUSE FLOOR PLAN - LIGHTING
 1/8" = 1'-0"



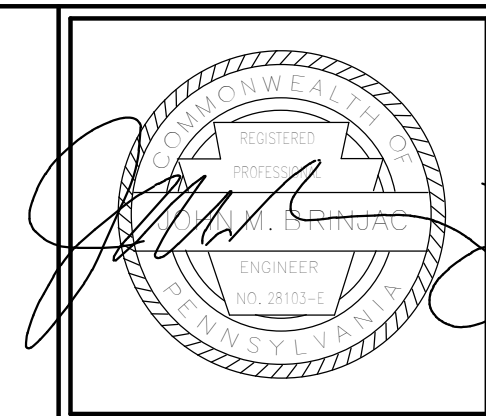
SECOND FLOOR PLAN - SECTION B - LIGHTING
 1/8" = 1'-0"



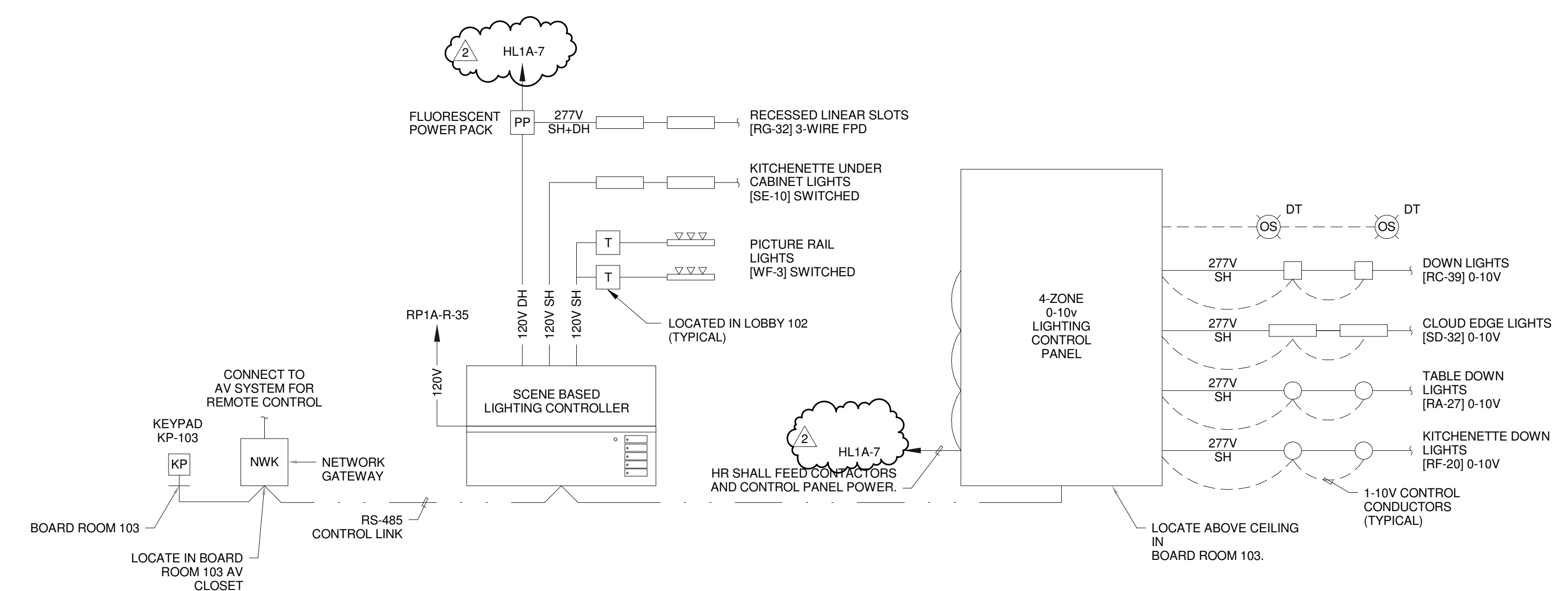
NOTE:
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 EXISTING CONDITIONS AT SITE.



KEY PLAN



revisions	description
1	03/11/2013
2	03/07/2013



BOARD ROOM 103 RISER - LIGHTING CONTROL
NO SCALE

GENERAL NOTES

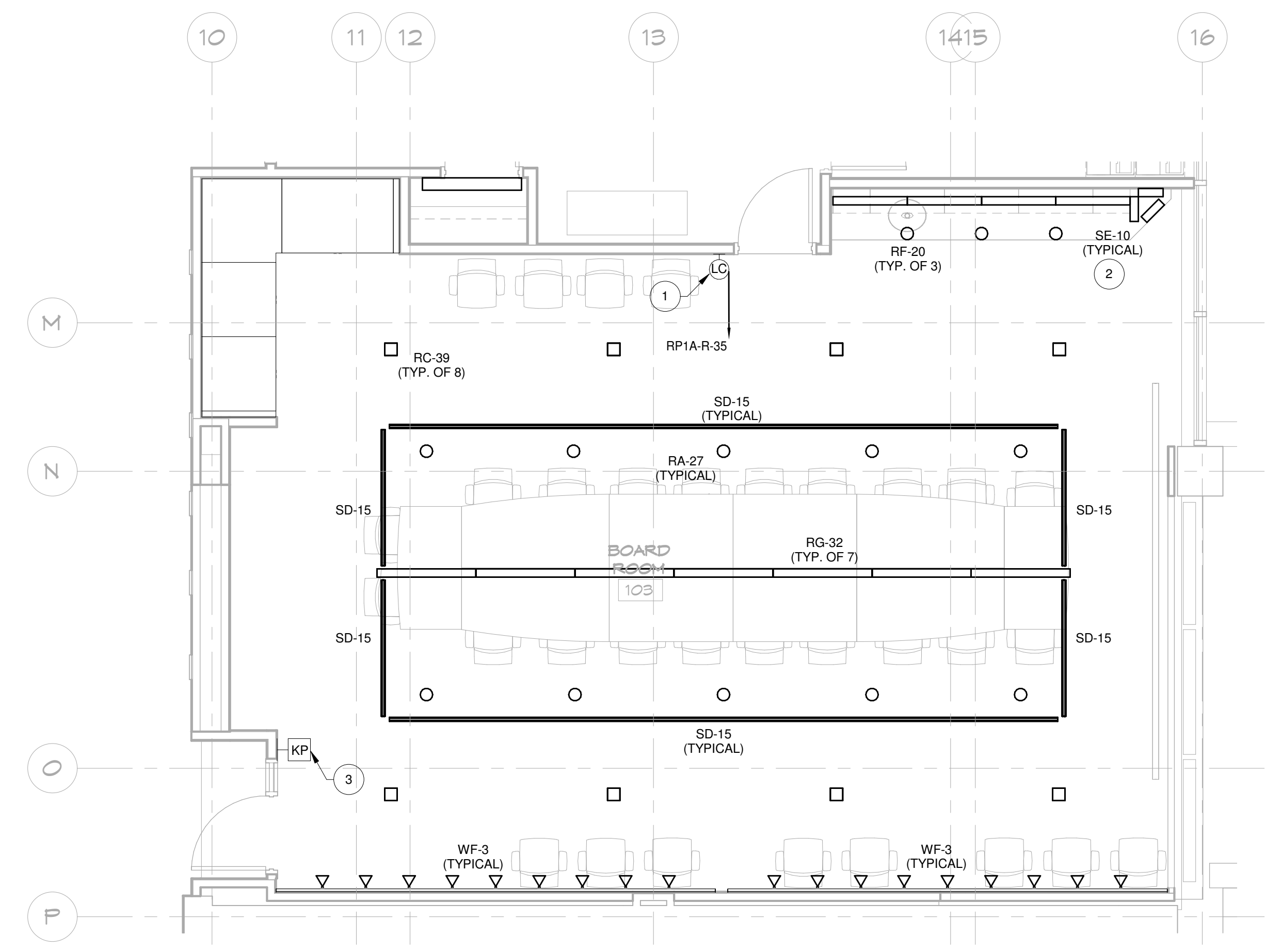
1. ALL CABLING SHALL BE PER MANUFACTURER RECOMMENDATIONS.
2. ALL FINISHES SHALL BE SUBMITTED PER THE SPECIFICATIONS AND APPROVED IN WRITING BY THE ARCHITECT.
3. OCCUPANCY SENSORS SHALL BE PROVIDED IN TYPES AND QUANTITIES FOR UBIQUITOUS VOLUMETRIC COVERAGE OF THIS SPACE. PROVIDE POWER SUPPLIES AS REQUIRED TO OPERATE ALL OCCUPANT SENSORS. SENSORS COVERAGE PATTERS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING PROCESS.
4. PROVIDE RS-485 POWER SUPPLIES AS REQUIRED TO OPERATE ALL DEVICES.
5. LIGHT SOURCES, POWER MODULES, AND CABLING SHALL BE COORDINATED TO MEET THE INTENT OF THE RISER DIAGRAM.
6. LIGHTING CONTROL DEVICES SUCH AS POWER PACKS, I/O DEVICES, ETHERNET/RS-232 GATEWAYS SHALL BE LOCATED IN UTILITY SPACES (NOT INTERFERING WITH OTHER EQUIPMENT), ABOVE DROP CEILINGS OR AS SHOWN ON PLAN. DEVICES SHALL BE NEATLY AND INCONSPICUOUSLY INSTALLED.
7. PROVIDE 4-GANG 3.5" DEEP METAL BACK BOX FOR SCENE BASED LIGHTING CONTROLLER(S). CONTROL UNITS SHALL BE MOUNTED 46" AFF TO THE CENTER.
8. ALL BUTTONS SHALL BE LASER ENGRAVED IN THE FACTORY.

SEQUENCE OF OPERATIONS

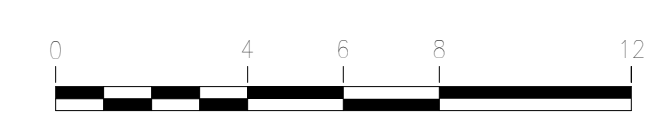
1. BOARD ROOM 103 SHALL HAVE DIMMABLE LIGHT FIXTURES AS SHOWN ON PLAN. ALL LIGHTING CONTROLS SHALL BE COMPATIBLE WITH FIXTURES, BALLASTS, AND DRIVERS PROVIDED.
2. LIGHTING CONTROL SHALL BE SCENE BASED.
3. LIGHTS SHALL GO TO PRESET 1 ON FIRST OCCUPANT SENSE. OCCUPANT SENSES SHALL NOT AFFECT THE LIGHTING CONTROL SYSTEM WHILE THE SPACE IS OCCUPIED. OCCUPANT SENSORS SHALL TURN LIGHTS OFF AFTER 15 MINUTES OF VACANCY.
4. SCENE RECALLS SHALL BE INTEGRATED INTO THE AV TOUCH PANELS. PROVIDE INTERFACE AS SHOWN.
5. KEYPADS SHALL HAVE (4) PRESETS, OFF, AND MASTER RAISE/LOWER.

KEYED NOTES:

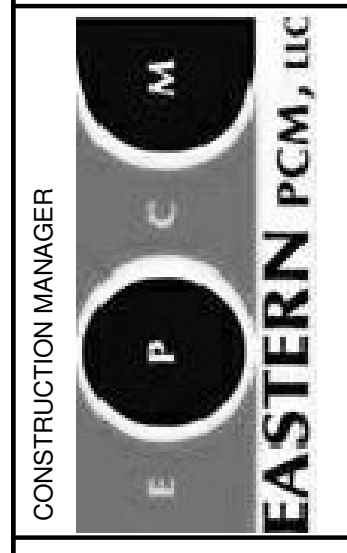
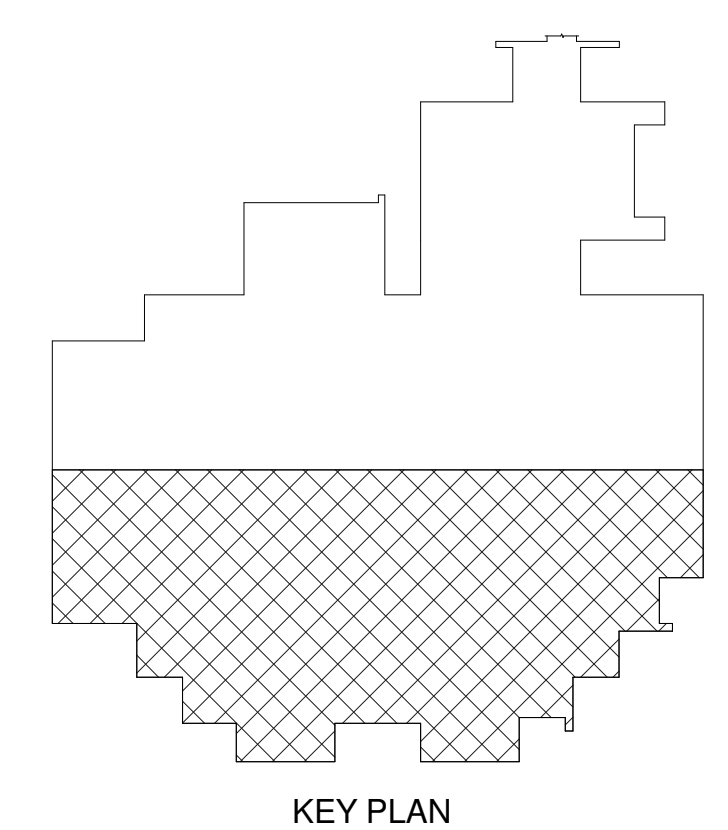
- 1 PROVIDE 4-GANG 3.5" DEEP BACK BOX AT 46" AFF FOR SCENE BASED LIGHTING CONTROL UNIT.
- 2 SEE DETAILS ON SHEET AS.4 FOR EXACT MOUNTING LOCATIONS FOR DOWNLIGHT RF-20 AS WELL AS LENGTH AND MOUNTING LOCATIONS FOR UNDERCABINET LIGHT SE-10.
- 3 PROVIDE LIGHTING CONTROL KEYPAD AT 46" AFF. REFERENCE RISER ON THIS SHEET FOR MORE INFORMATION.



1 BOARD ROOM 103 ENLARGED PLAN - LIGHTING CONTROL
E5.1 1/4" = 1'-0"



NOTE:
CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS & EXISTING CONDITIONS AT SITE.

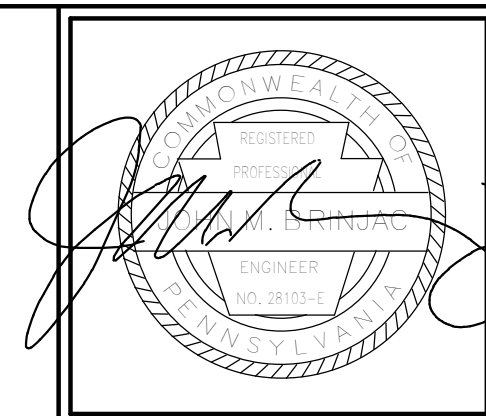


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PROJECT NAME
**HACC CENTRAL ADMINISTRATION BUILDING
PHASE 3 -
MUMMA HALL RENOVATIONS**
HARRISBURG, PA

DATE
02/08/2013
DRAWN BY
NPD
CHECKED/APPROVED BY
JLS
BRINJAC PROJ. NUMBER
12113
DRAWING NUMBER
BOARD ROOM 103
ENLARGED PLAN -
LIGHTING
CONTROL

NEW SHEET
E5.1



(UH)																
TAG	LOCATION	TYPE	AIR			WATER				MOTOR			MOUNTING HEIGHT AFF (FT)	BASIS OF DESIGN	REMARKS	
			AIRFLOW	EAT	LAT	CAPACITY	GPM	INLET WATER	LEAVING WATER	RPM	HP	V				PH
			(CFM)	(F)	(F)	(MBH)		(F)	(F)							
UH-1	PENHOUSE MECHANICAL ROOM	HORIZONTAL	500	60	104	16	2.4	180	160	1,600	1/25	115	1	9	REZNOR WS 22/33	

(EF)												
TAG	SYSTEM	LOCATION	TYPE	CFM	TSP. (IN. WG)	FAN RPM	CONTROL	MOTOR			BASIS OF DESIGN	REMARKS
								HP	VOLT	PH		
								EF-1	GENERAL EXHAUST	ROOF		
EF-2	PENTHOUSE MECHANICAL ROOM	ROOF	CENTRIFUGAL - DOWNBLAST	7,400	0.50	673	ATC	2	460	3	GREENHECK GB-260	SEE NOTE 1

NOTES: 1. PROVIDE UNIT COMPLETE WITH 14" HIGH ROOF CURB AND BACKDRAFT DAMPER.

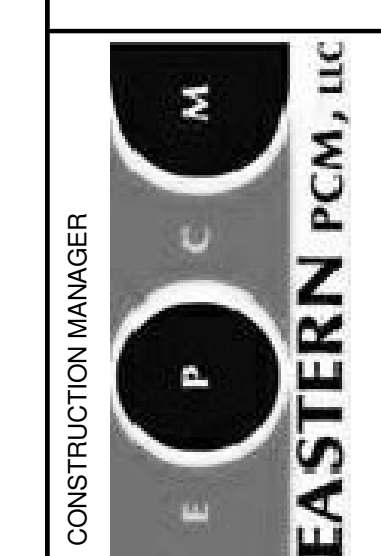
(CUH)											
SYMBOL	LOCATION	TYPE	FAN CAPACITY		AIR		ELECTRIC			BASIS OF DESIGN	REMARKS
			CFM	HP	EAT	LAT	CAPACITY (KW)	VOLTAGE/PH	FLA		
CUH-1	VESITBULE - 158	WALL MOUNTED	500	1/8	68	118	8	480/3	11	QMARK CU945	

(DIFF)									
TAG	SERVICE	CFM RANGE [CFM/LF]	NECK DIA. (IN)	SIZE FACE (IN)	MAX. PD (IN. WG)	MAX. NOISE (NC)	PATTERN	BASIS OF DESIGN	REMARKS
A	SQUARE SUPPLY DIFFUSER	50 - 120	5	12x12	0.09	25	4-WAY	TITUS TMS	ALL PATTERN SHALL BE 4-WAY UNLESS OTHERWISE NOTED
		125 - 210	6	24x24	0.07	25			
		215 - 320	8	24x24	0.08	25			
		325 - 500	12	24x24	0.08	25			
		700 - 900	14	24x24	0.12	25			
B	RETURN / EXHAUST REGISTER	0-125	6x6	6x6	0.08	20		TITUS 350FL	
		130-225	8x8	8x8	0.12	20			
		230-350	10x10	10x10	0.12	20			
		355-525	12x12	12x12	0.08	20			
		530-1050	18x18	18x18	0.07	20			
C	SIDE WALL DIFFUSER	75-150	6x6	6x6	0.12	24	0 DEGREE DEFLECTION	TITUS 300FL	
		300-410	12x8	12x8	0.09	25			

NOTES: 1. FRAME SHALL MATCH CEILING TYPE

(EWH)							
TAG	MOUNTING	TYPE	CAPACITY (KW)	POWER (V/PH)	AMPERAGE (AMPS)	BASIS OF DESIGN	REMARKS
EWH-1	RECESSED	ELECTRIC	2	277/1	7.2	QMARK AWH 4407	
EWH-2	RECESSED	ELECTRIC	3	277/1	10.8	QMARK AWH 4307	

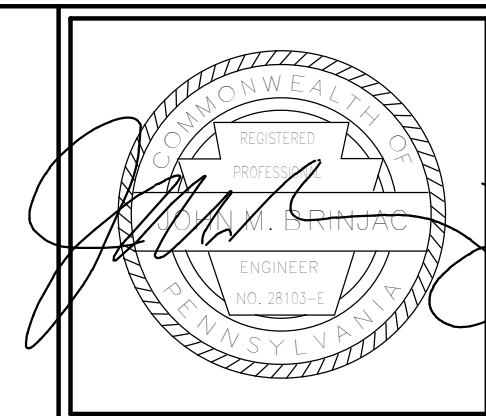
no.	date	description
1	03/07/2013	Addendum # 3



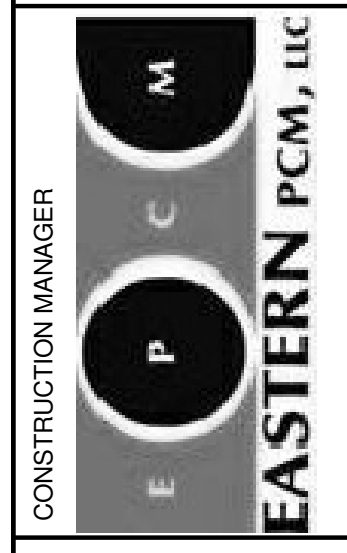
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PROJECT NAME
**HACC CENTRAL ADMINISTRATION BUILDING
 PHASE 3 -
 MUMMA HALL RENOVATIONS**
 HARRISBURG, PA

DATE
02/08/2013
 DRAWN BY
NAR
 CHECKED/APPROVED BY
NAR
 BRINJAC PROJ. NUMBER
12113
 DRAWING NUMBER
HVAC SCHEDULES



revisions	description	date
1	ADDENDUM # 3	03/07/2013



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PROJECT NAME
**HACC CENTRAL ADMINISTRATION BUILDING
 PHASE 3 -
 MUMMA HALL RENOVATIONS**
 HARRISBURG, PA

DATE	02/08/2013
DRAWN BY	NPD
CHECKED/APPROVED BY	JLS
BRINJAC PROJ. NUMBER	12113
DRAWING NUMBER	FIRST FLOOR PLAN - OVERALL - TELECOM

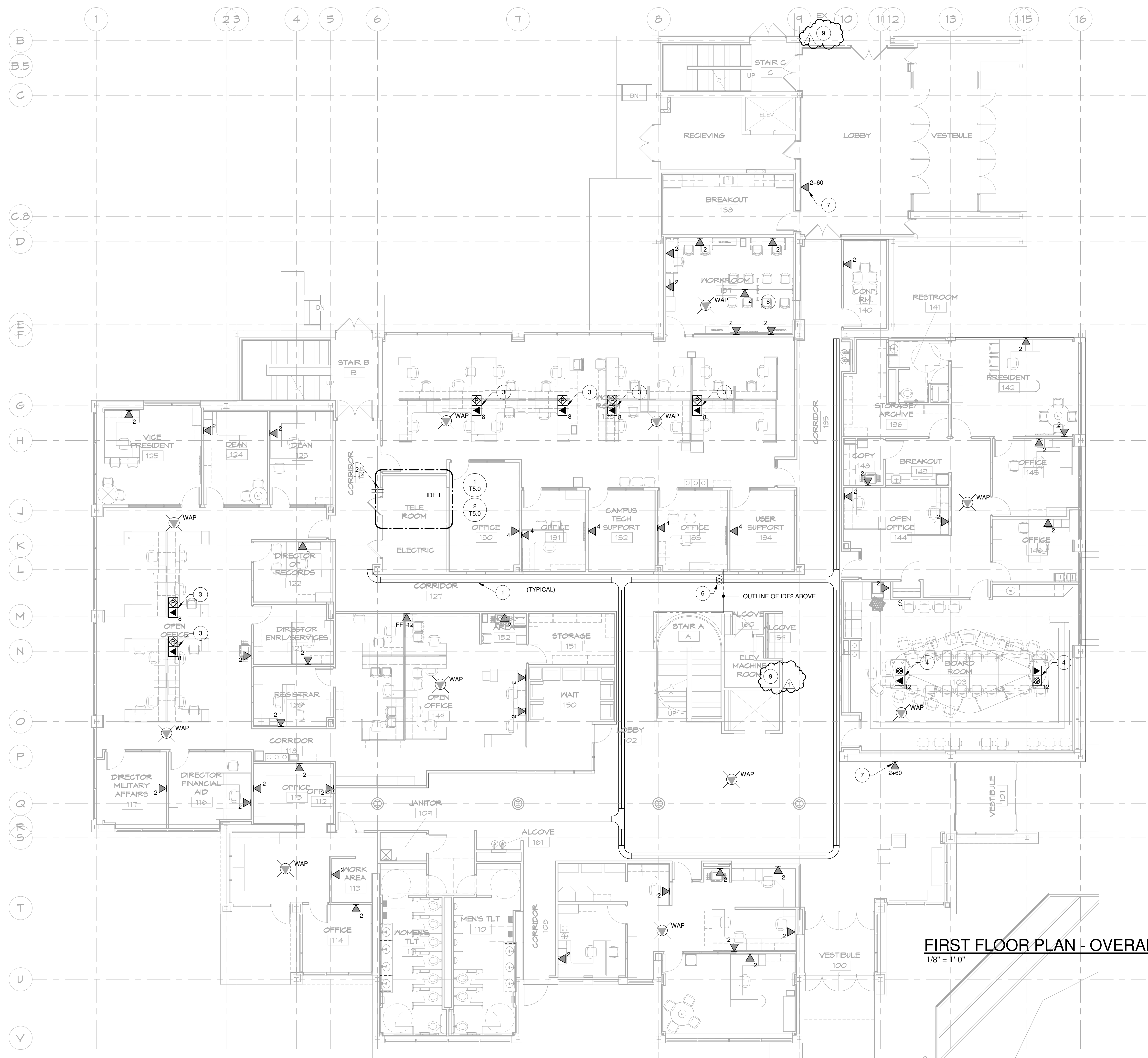
T1.1

GENERAL NOTES

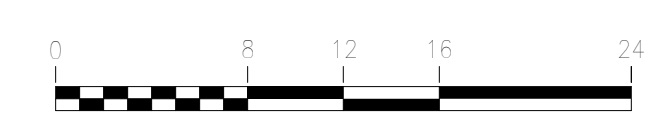
1. ALL HORIZONTAL DATA AND VOICE CABLING SHOWN ON THIS PLAN SHALL HOMERUN TO IDF1.

KEYED NOTES

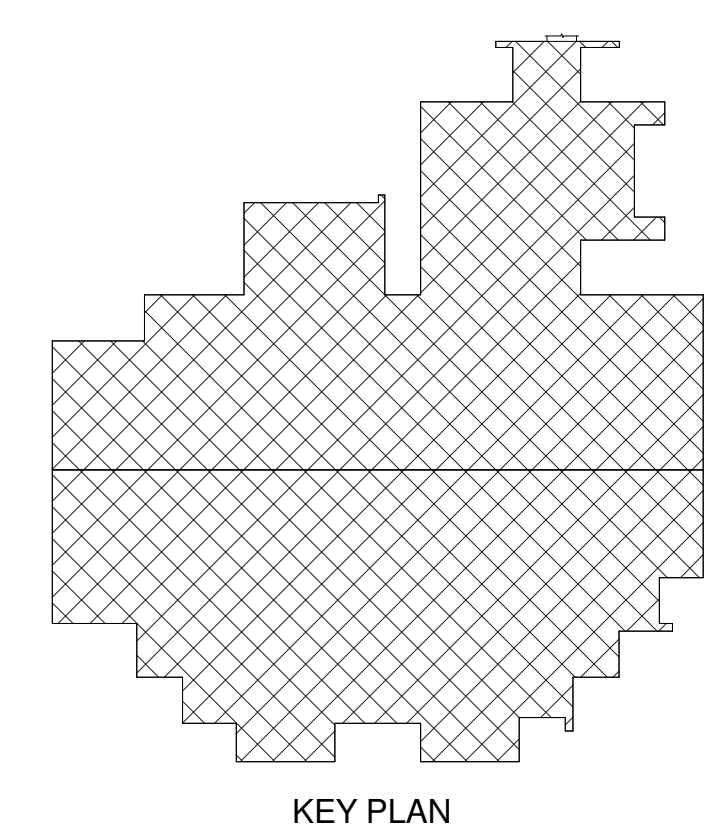
- 1 PROVIDE (2) 4" CONDUIT SLEEVES TO CORRIDOR CABLE TRAY.
- 2 PROVIDE 12"x4" WIRE BASKET TRAY ABOVE DROP CEILING. (TYPICAL)
- 3 PROVIDE ON-GRADE 2-GANG FURNITURE FEED FLOOR BOX. PROVIDE FLEXIBLE WHIP AND CABLING THRU SYSTEMS FURNITURE. EACH WORK STATION SHALL RECEIVE 2 DATA DROPS. PROVIDE PLATES AS REQUIRED. SEE DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- 4 PROVIDE ON-GRADE 6-GANG FLOOR BOX. SEE DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- 5 SEE ENLARGED PLAN FOR MORE INFORMATION.
- 6 (2) 4" CONDUIT SLEEVES FROM 2ND FLOOR IDF. SEE SHEET T3.1 FOR REQUIREMENTS.
- 7 DATA OUTLET SHALL BE DEDICATED TO FLAT SCREEN HDTV. CO-LOCATE WITH POWER. FINAL LOCATION SHALL BE SELECTED IN THE FIELD BY THE ARCHITECT.
- 8 ALL DATA OUTLETS IN THIS SPACES SHALL BE MOUNTED IN DUAL CHANNEL SURFACE RACEWAY ABOVE THE TABLES. REFERENCE THE ELECTRICAL DRAWINGS FOR RACEWAY DETAILS.
- 9 PROVIDE (2) UTP DROPS FOR ELEVATOR DIAL OUT. SURFACE MOUNT IN FIELD. PROVIDE CONDUIT TO ACCESSIBLE CEILING. CROSS CONNECT TO COPPER BACKBONE AS REQUIRED.



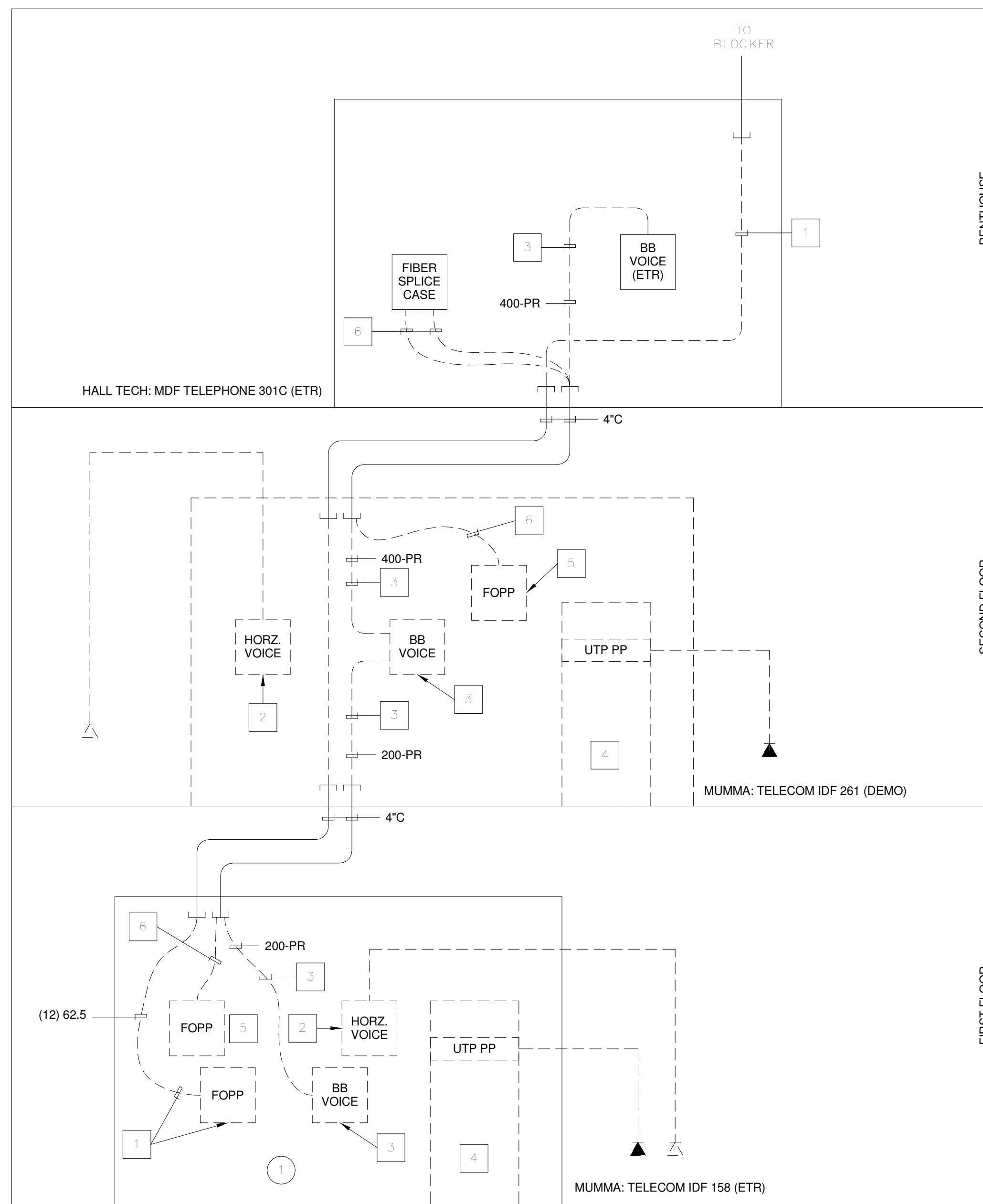
FIRST FLOOR PLAN - OVERALL - TELECOM
 1/8" = 1'-0"



NOTE:
 CONTRACTOR SHALL CHECK &
 VERIFY ALL DIMENSIONS &
 EXISTING CONDITIONS AT SITE.



KEY PLAN



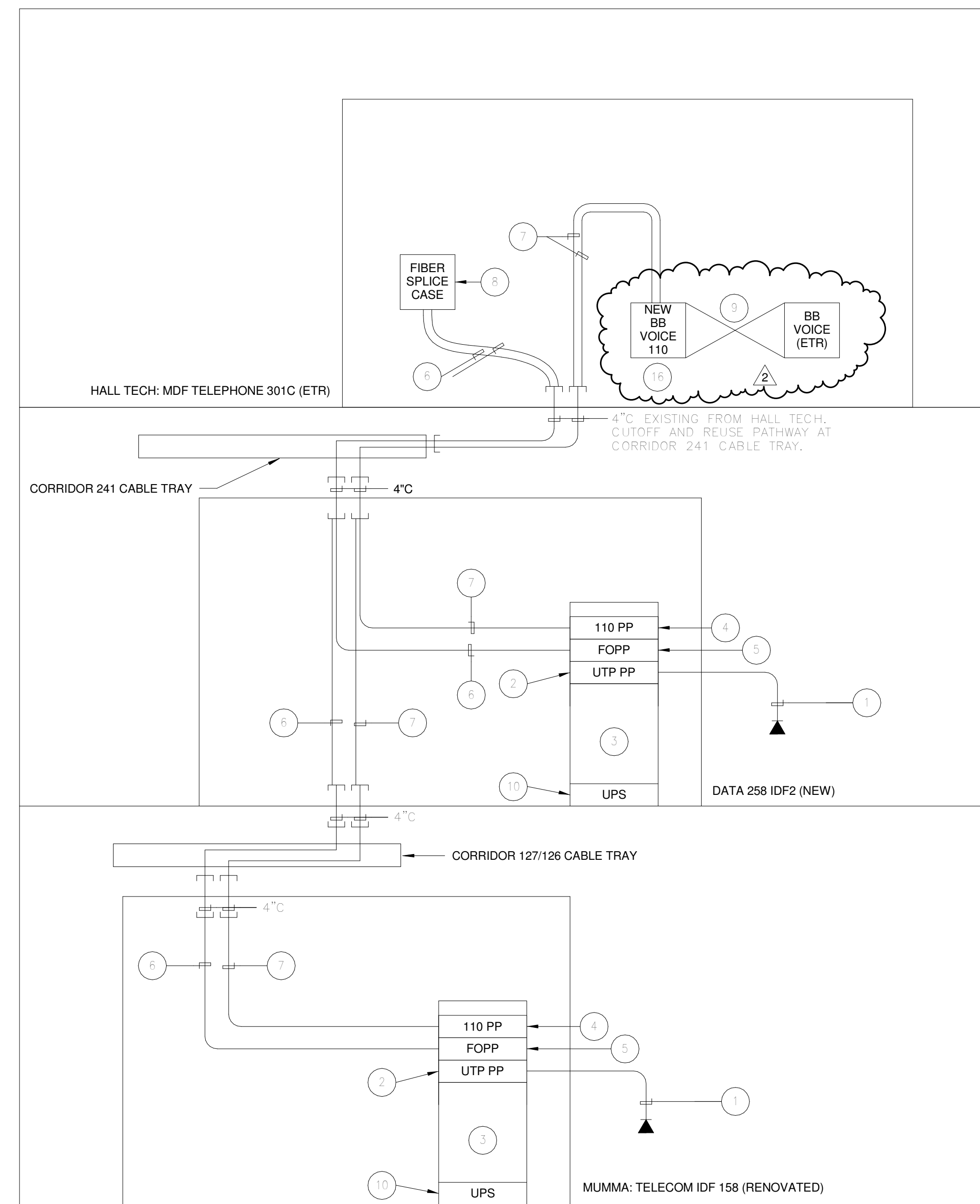
SCHEMATIC RISER - DEMO - TELECOM
NO SCALE

DEMO NOTES:

- 1 (12) STRAND 62.5 WALL MOUNTED FIBER OPTIC PATCH PANEL DEDICATED TO VERIZON. CONTRACTOR SHALL COORDINATE DEMOLITION OF FOPP AND CABLE BACK TO SOURCE IN BLOCKER WITH VERIZON.
- 2 DEMOLISH HORIZONTAL VOICE FIELD. REFER TO NEW WORK DRAWINGS FOR NEW RACK MOUNTED HORIZONTAL VOICE FIELD.
- 3 BACKBONE VOICE FIELD AND CALBES SHALL BE DEMOLISHED BACK TO HALL TECH MDF TELEPHONE 301C.
- 4 DEMOLISH EQUIPMENT RACK AND HORIZONTAL UTP PATCH PANELS. UPS AND ETHERNET SWITCHES SHALL BE TURNED OVER TO THE OWNER.
- 5 IDF FOPP SHALL BE DEMOLISHED.
- 6 6-STRAND 62.5 MULTIMODE BACKBONE FIBER SHALL BE REMOVED BACK TO HALL TECH MDF TELEPHONE 301C SPLICE CASE.

KEYED NOTES:

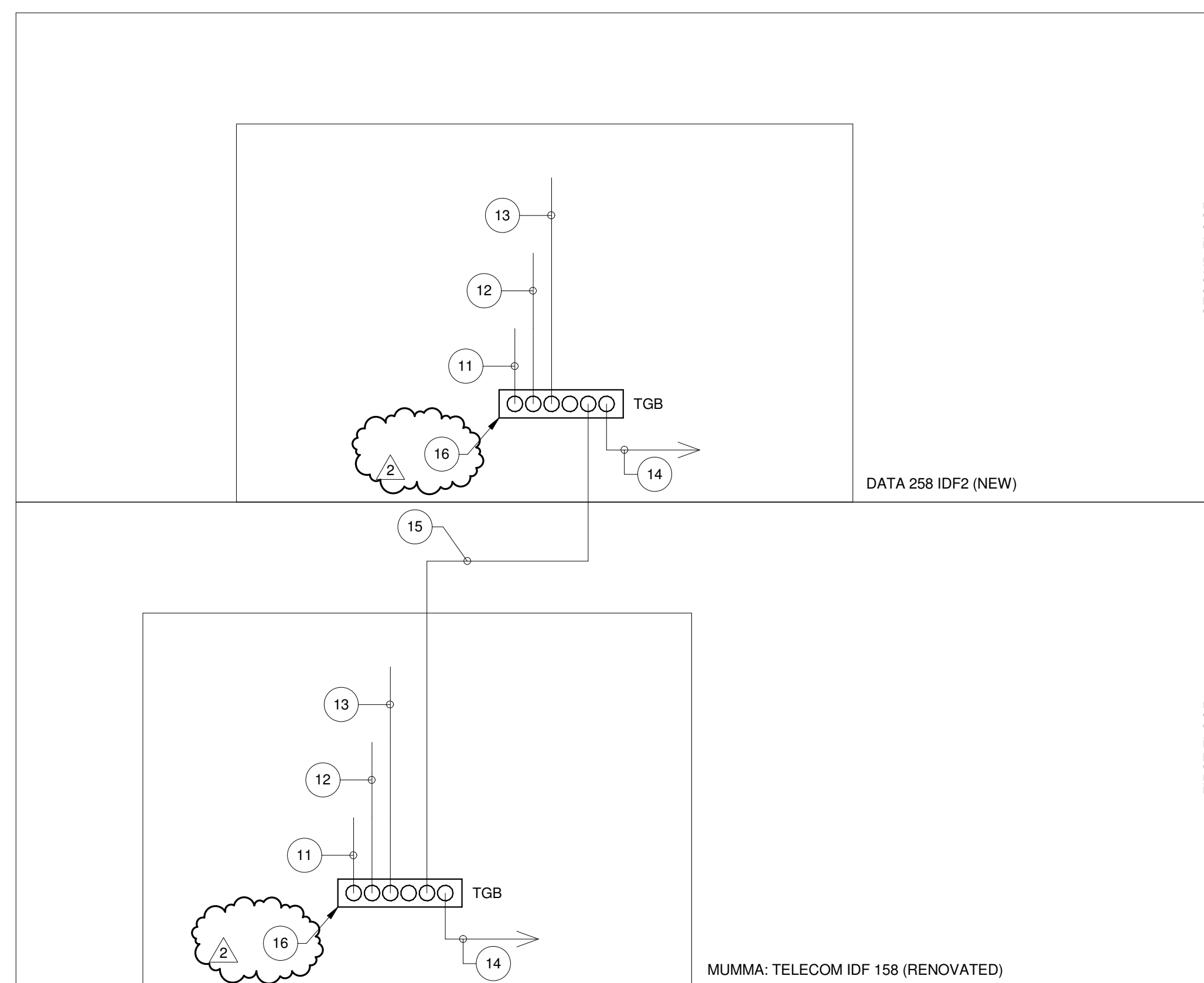
- 1 EQUIPMENT ASSOCIATED WITH THE MASS NOTIFICATION SYSTEM SHALL BE EXISTING TO REMAIN. AFTER NEW FIBER BACKBONE CUTOVER, REPATCH TO CURRENTLY UTILIZED STRANDS IN BLOCKER.



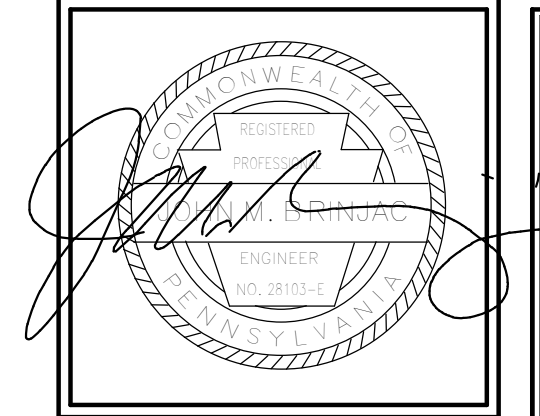
SCHEMATIC RISER - NEW - TELECOM
NO SCALE

KEYED NOTES

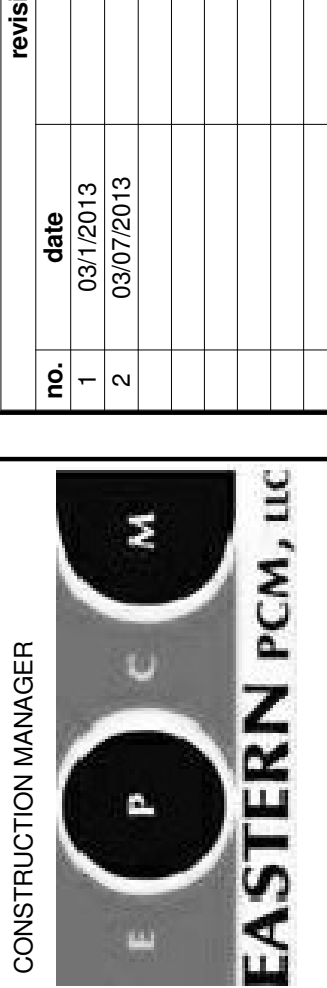
- 1 PROVIDE 4-PAIR CAT5E UTP CMP HORIZONTAL VOICE OR DATA CABLES. SEE FLOOR PLANS FOR LOCATIONS. (TYPICAL)
- 2 PROVIDE 48-PORT CAT5E UTP PATCH PANEL. (TYPICAL)
- 3 PROVIDE 7'-0" 4-POST EQUIPMENT RACK.
- 4 PROVIDE 100-PAIR CAT5E RACK MOUNTED 110 PATCH PANEL FOR VOICE BACKBONE.
- 5 PROVIDE 1U 48-STRAND FOPP WITH (1) 12-STRAND 62.5 LC CONNECTOR HOUSING AND (1) BLANK CONNECTOR HOUSING.
- 6 PROVIDE (1) 6-STRAND 62.5 PLENUM RATED BACKBONE CABLE WITH INTERLOCKING ARMORE BACK TO HALL TECH MDF TELEPHONE 301C. SEE THE FLOOR PLANS FOR ROUTING.
- 7 PROVIDE 100-PAIR COPPER CAT3 TYPE CMP BACKBONE CABLE BACK TO HALL TECH MDF TELEPHONE 301C. SEE FLOOR PLANS FOR ROUTING.
- 8 SPLICE ALL NEW BACKBONE FIBERS IN EXISTING FIBER OPTIC SPLICE CASE BACK TO BLOCK CORE. FIBER SHALL BE TESTED FOR THE ENTIRE LINK (BLOCKER TO NEW IDF LOCATIONS).
- 9 CROSS CONNECT BOTH NEW 100-PAIR COPPER BACKBONES TO EXISTING VOICE FIELD. ALL 200-PAIRS SHALL BE TESTED BACK TO THE CORE.
- 10 PROVIDE UPS(S) AND BATTERIES PER SS #16791
- 11 PROVIDE #6 AWG INSULATED (GREEN) COPPER GROUND TO IDF LADDER RUNWAY. (TYPICAL)
- 12 PROVIDE #6 AWG INSULATED (GREEN) COPPER GROUND TO IDF RACKS / CABINETS. (TYPICAL)
- 13 PROVIDE #6 AWG INSULATED (GREEN) COPPER GROUND TO COORIDOR WIRE BASKET TRAY. (TYPICAL)
- 14 HOME-RUN #6 AWG, 1/2" CONDUIT TO NEAREST POWER SYSTEM PANELBOARD. BOND COPPER GROUND AND BOTH ENDS OF CONDUIT. (TYPICAL)
- 15 #1/0 AWG BARE COPPER GROUNDING BACKBONE. (TYPICAL)
- 16 PROVIDE GROUNDING BAR(S) PER SS #16794.
- 17 PROVIDE 200-PR NEW 110 BLOCKS FOR NEW INTERNAL COPPER BACKBONES. CROSS CONNECT TO EXISTING VOICE FIELD. TEST ALL 200 PAIRS FROM EACH IDF ALL THE WAY BACK TO BLOCKER HALL.



GROUNDING SCHEMATIC RISER - NEW - TELECOM
NO SCALE



no.	date	description
1	03/17/2013	Addendum #2
2	03/07/2013	Addendum #3



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**HACC CENTRAL ADMINISTRATION BUILDING
PHASE 3 -
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DATE
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DRAWN BY
NPD
CHECKED/APPROVED BY
JLS
BRINJAC PROJ. NUMBER
12113

DRAWING NUMBER
SCHEMATIC
RISERS - TELECOM

T6.0

Revisions		
No.	Date	Description
1	2/22/13	ADDENDUM #1
2	3/7/13	ADDENDUM #3

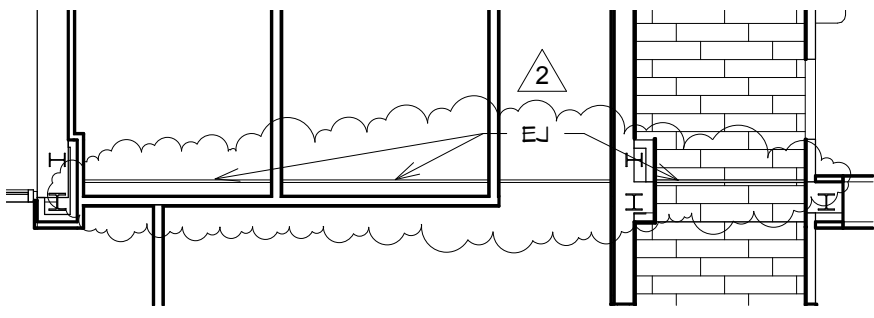
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF HIS WORK. THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT.

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CONSULTANT: CONSTRUCTION MANAGER

EASTERN PCM, LLC
645 N. 12TH STREET
SUITE 200
LEMOYNE, PA 17043
717-233-3016

CONSULTANT: STRUCTURAL ENGINEER

WHITNEY, BAILEY, COX & MAGNANI, LLC
ONE STERLING PLACE
100 STERLING PARKWAY
SUITE 108
MECHANICSBURG, PA 17050
717-691-4708



PARTIAL LARGE SCALE SECOND FLOOR PATTERN PLAN - SECTION A

SCALE: 1/8" = 1'-0" (REF. TO DWG. A7.12)

ALTERATIONS TO HACC TED LICK ADMINISTRATION BUILDING
HARRISBURG, PA

PARTIAL LARGE SCALE SECOND FLOOR PATTERN PLAN - SECTION A

CONSTRUCTION DOCUMENTS

DRAWN BY: **TAB** CHECKED BY: **BHD**

DATE: **FEBRUARY 8, 2013**

PROJECT NUMBER: **3395**

DRAWING NUMBER: **SKA-14**
PHASE 3

DETAIL REFERENCE MANUAL INDEX

NOTES: N-0 THRU N-4

LEGENDS: L-0 THRU L-5

COLUMN ENCLOSURE DETAILS: CE-0 THRU CE-71

CEILING DETAILS: CDT-0 THRU CDT-62

DOOR SCHEDULE: DS-0 THRU DS-4

DOOR ELEVATIONS: DE-0 THRU DE-2

DOOR DETAILS: DD-0 THRU DD-44

FLOOR DETAILS: FD-0 THRU FD-20

KEY TO FINISHES: KTF-0 THRU KTF-3

MILLWORK DETAILS: MWD-0 THRU MWD-56

MISCELLANEOUS DETAILS: MDT-0 THRU MDT-12

PARTITION TYPES: PT-0 THRU PT-67

STAIR DETAILS: STD-0 THRU STD-18

ELEVATOR DETAILS: EL-0 THRU EL-4

ROOF DETAILS: RD-0 THRU RD-7

ADDENDUM #1 - FEBRUARY 22, 2013

ADDENDUM #2 - MARCH 1, 2013

ADDENDUM #3 - MARCH 7, 2013

PHASE 3 - CONSTRUCTION DOCUMENTS
3395/ ALTERATIONS TO HACC TED LICK
ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
MURRAY ASSOCIATES ARCHITECTS, P.C.


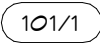





INDEX-1

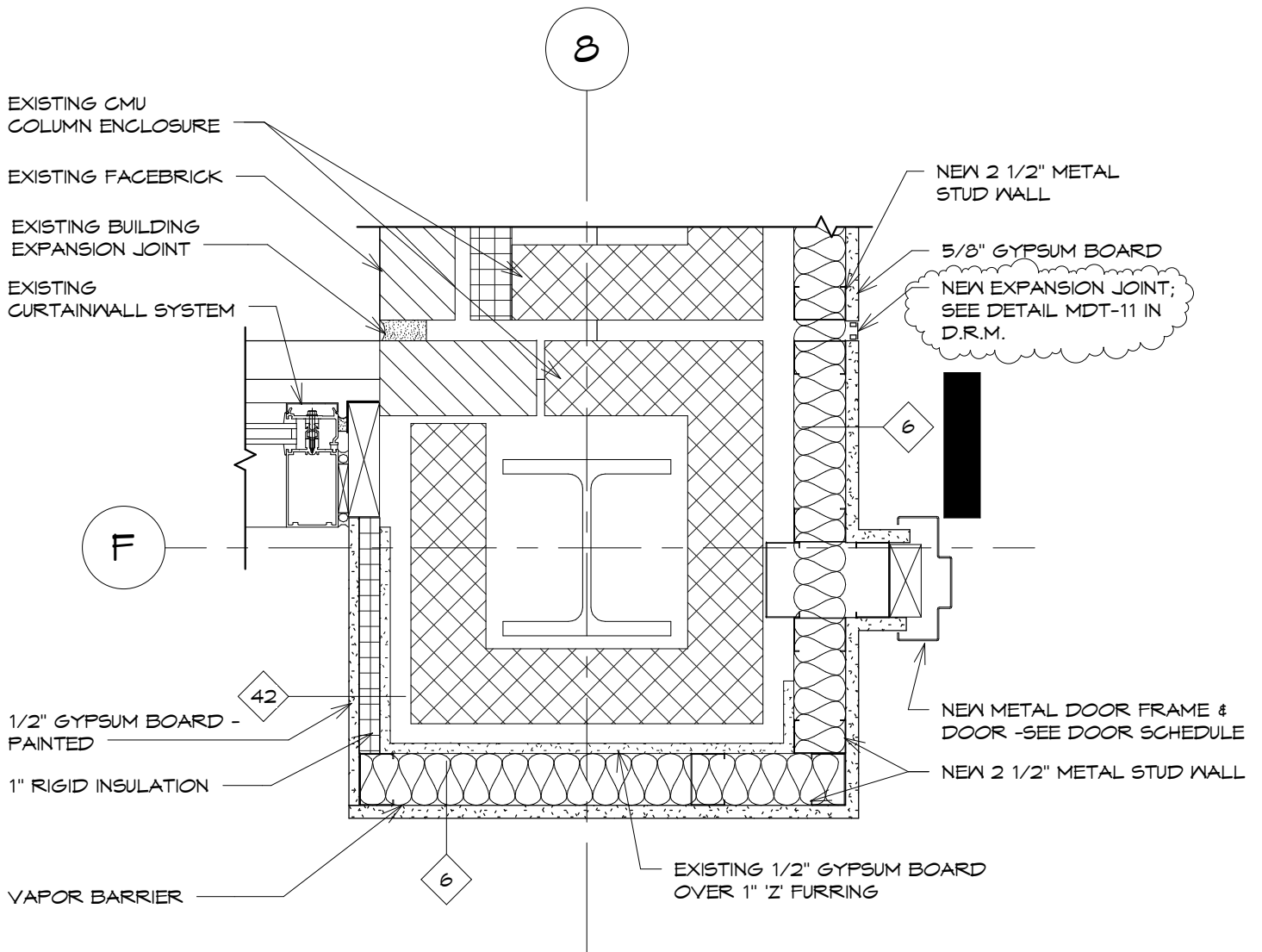
DEMOLITION KEYNOTES	
NUMBER	DESCRIPTION
30	REMOVE EXISTING HARDWOOD STRIP PANELING.
31	REMOVE EXISTING WOOD PANELING.
32	REMOVE EXISTING RAILING AND BRACKETS.
33	REMOVE EXISTING GLASS SMOKE CURTAIN. STORE FOR LATER RE-INSTALLATION.
34	REMOVE EXISTING WOOD PANELING FROM FACE OF GYPSUM BOARD SOFFIT.
35	REMOVE EXISTING GYPSUM BOARD SOFFIT.
36	REMOVE ONE LAYER OF PLYWOOD FROM EXISTING 2 LAYERS ON RADIUS WALL AROUND STAIR.
37	FOR ALL SAW CUTTING OF SLABS FOR NEW ELECTRICAL /PLUMBING/DATA LINES REFER TO ELECTRICAL, PLUMBING AND POWER DRAWINGS.
38	REMOVE EXISTING SLAB AS REQUIRED FOR NEW SHOWER. SEE MECHANICAL, ELECTRIC AND PLUMBING DRAWINGS FOR ADDITIONAL SAW CUTTING AND FLOOR PENETRATIONS.
39	REMOVE PORTION OF EXISTING WALL FOR NEW DOOR OPENING.
40	REMOVE PORTION OF EXISTING METAL DECK, SUBSTRATE BOARD, INSULATION , COVER BOARD AND MEMBRANE ROOFING FOR INSTALLATION OF NEW MECHANICAL UNIT.
41	REMOVE PORTION OF EXISTING METAL DECK, SUBSTRATE BOARD, INSULATION , COVER BOARD AND MEMBRANE ROOFING FOR INSTALLATION OF NEW REFREGERANT LINES.
42	REMOVE PORTION OF EXISTING TEMPORARY SEALED MECHANICAL CURB FOR NEW MECHANICAL UNIT.
43	REMOVE EXISTING WALL EXPANSION JOINT SYSTEM. MODIFY CONCRETE AS REQUIRED FOR INSTALLATION OF NEW EXPANSION JOINT.
44	REMOVE EXISTING WALL EXPANSION JOINT SYSTEM.

2 →

2 →

LEGEND

1. D.R.M. REFERS TO DETAIL REFERENCE MANUAL
2. MDT REFERS TO MISCELLANEOUS DETAILS IN D.R.M.
3. FD REFERS TO FLOOR DETAILS IN D.R.M.
4. CDT REFERS TO CEILING DETAILS IN D.R.M.
5. DD REFERS TO DOOR AND HOLLOW METAL DETAILS IN D.R.M.
6. MWD REFERS TO MILLWORK DETAILS IN D.R.M.
7. CE REFERS TO COLUMN ENCLOSURES IN D.R.M.
8. EL REFERS TO ELEVATOR DETAILS IN D.R.M.
9. STD REFERS TO STAIR DETAILS IN D.R.M.
10.  REFERS TO FRAME ELEVATIONS ON SHEET A8.1.
11.  DENOTES DOOR - SEE DOOR SCHEDULE AND ELEVATIONS (DE) IN D.R.M.
12.  REFERS TO PARTITION TYPES (PT) IN D.R.M.
13.  X REFERS TO INTERIOR ELEVATIONS ON DRAWING A6.1 THRU A6.6.
14.  SEMI-RECESSED FIRE EXTINGUISHER CABINET. SEE MDT-1 IN D.R.M.
15.  REFERS TO DEMOLITION KEYNOTE. SEE N-2 IN D.R.M.
16.  REFERS TO NEW CONSTRUCTION KEYNOTE. SEE L-2 IN D.R.M.
17. ALL DIMENSIONS ARE TO THE FACE OF GYPSUM BOARD UNLESS OTHERWISE NOTED.
18. "CJ" REFERS TO CONTROL JOINT. SEE MDT-2 IN D.R.M.
19. "EJ" REFERS TO EXPANSION JOINT. SEE MDT-10 AND MDT-11 IN D.R.M.



NOTE: SEE PARTITION TYPES FOR GYPSUM BOARD TYPES

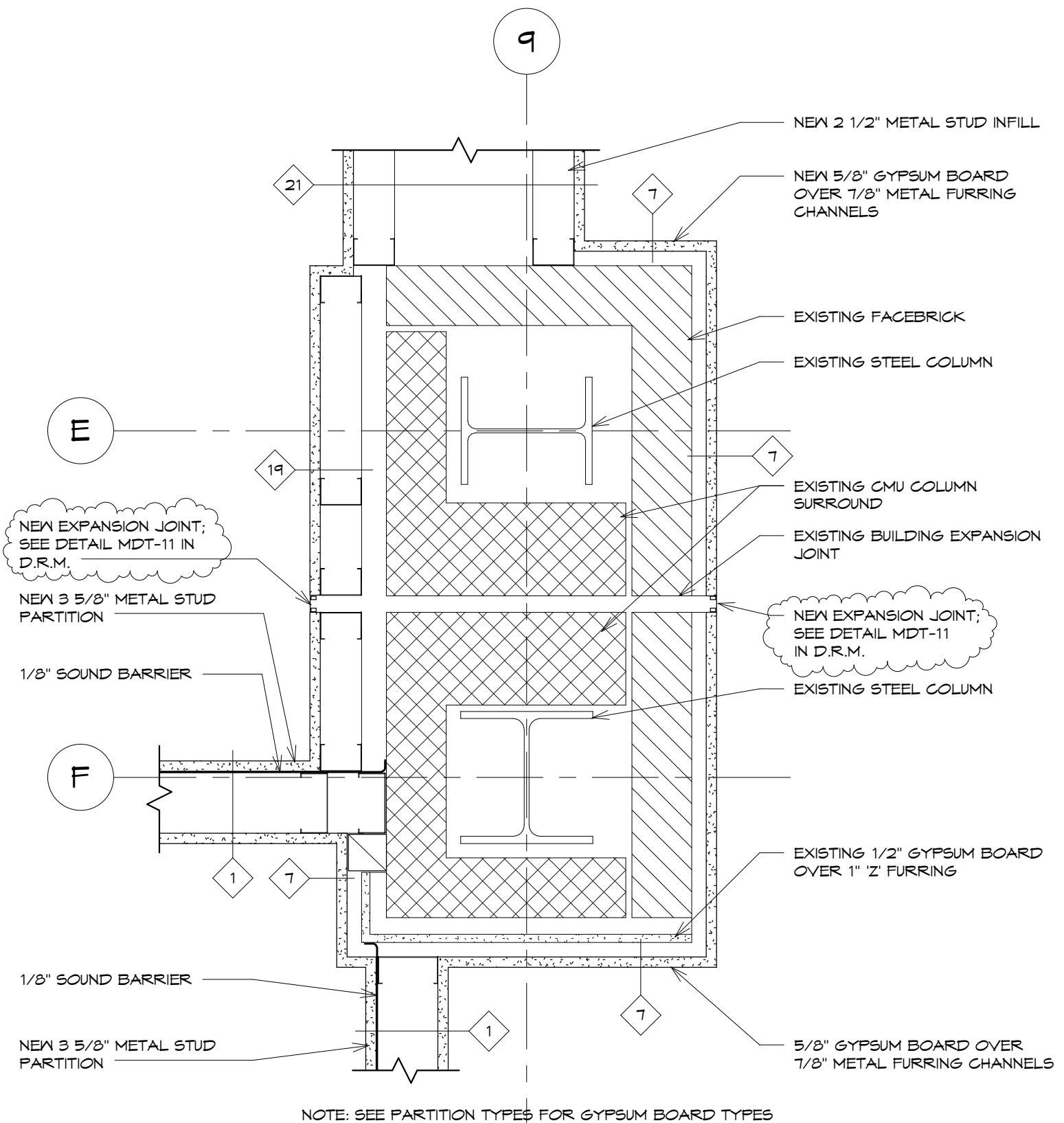
COLUMN ENCLOSURE DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

CE-5



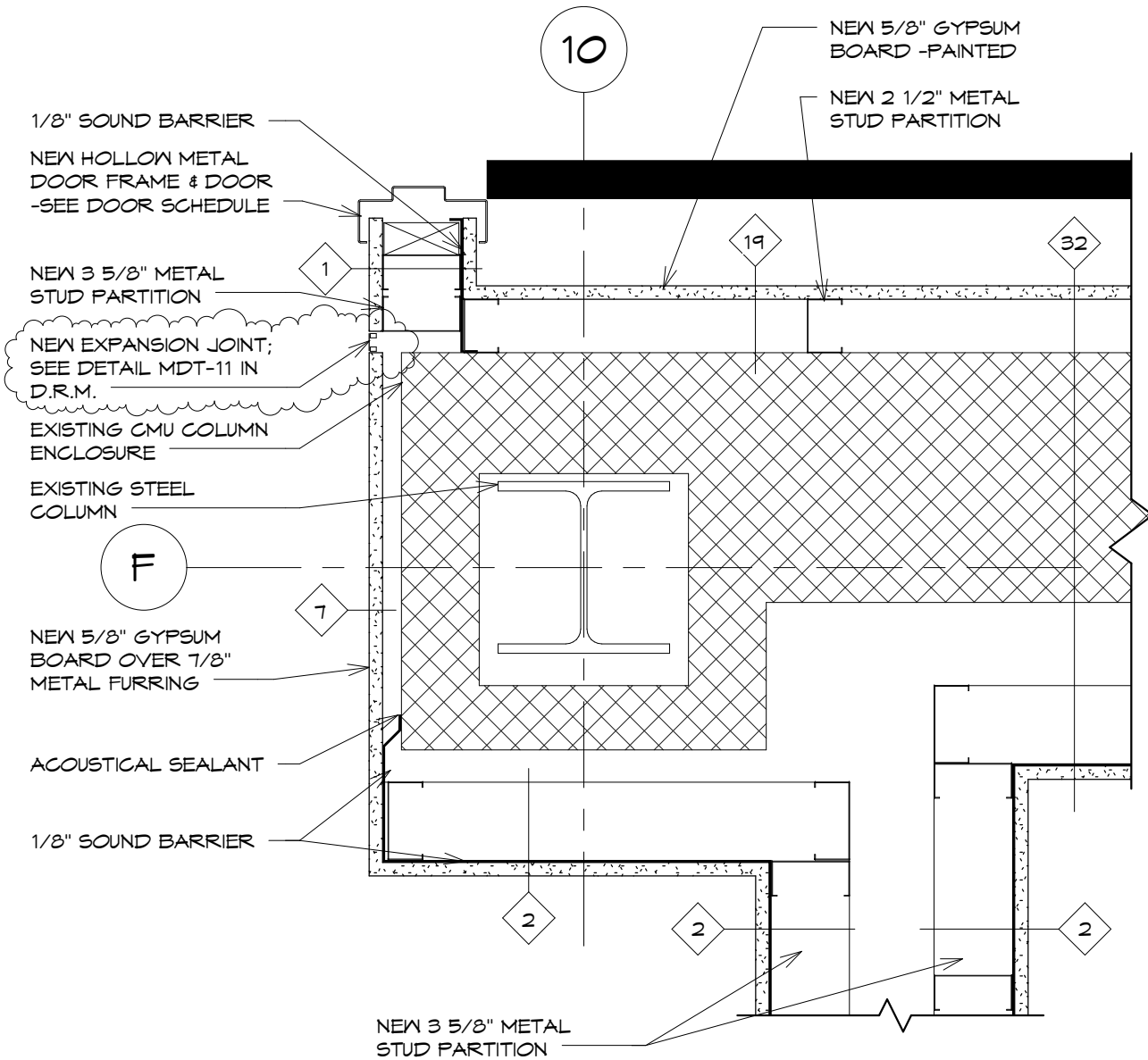
COLUMN ENCLOSURE DETAILS

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

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 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

CE-6



NOTE: SEE PARTITION TYPES FOR GYPSUM BOARD TYPES

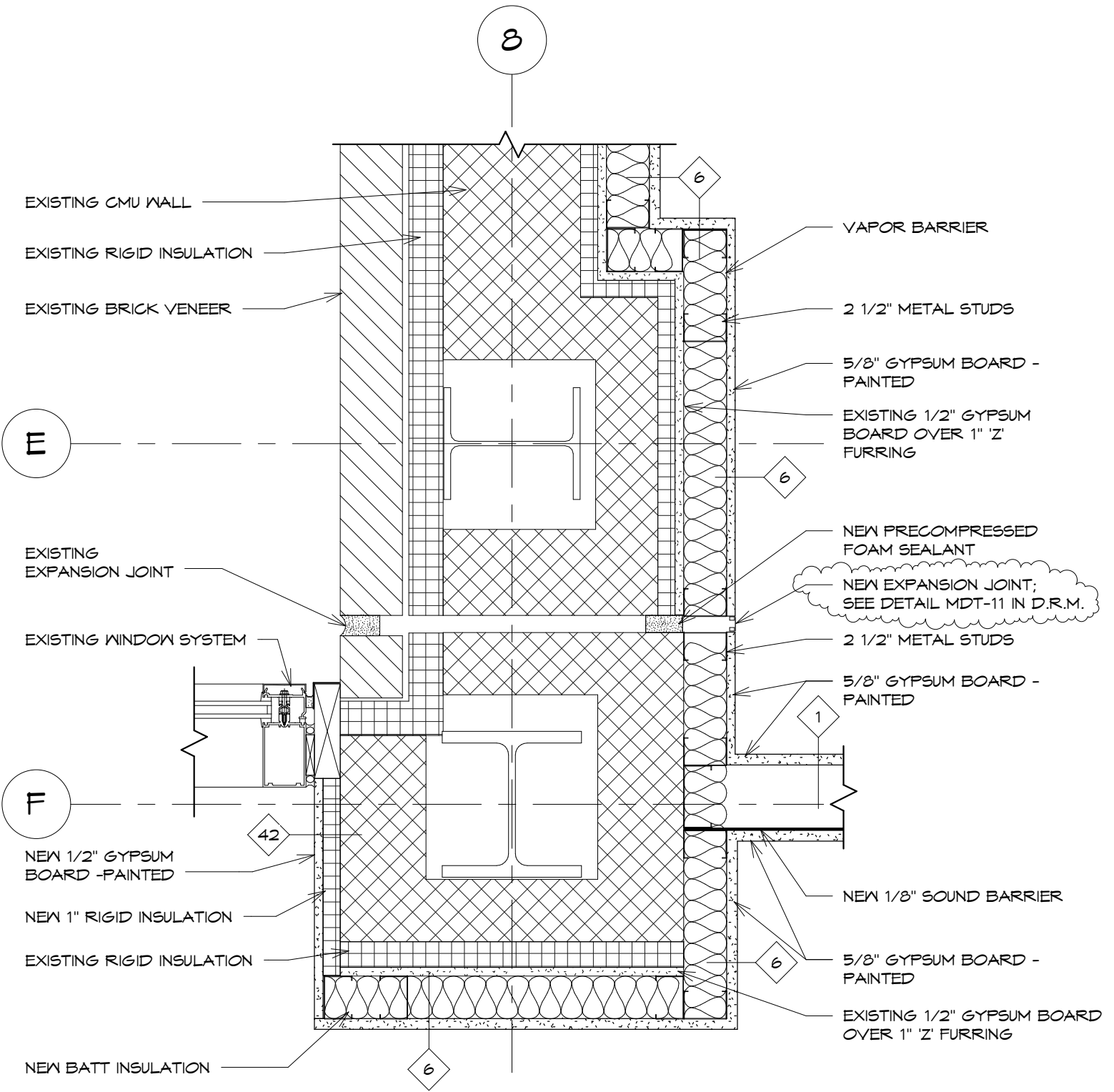
COLUMN ENCLOSURE DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
3395/ ALTERATIONS TO HACC TED LICK
ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #2 - MARCH 1, 2013
ADDENDUM #3 - MARCH 7, 2013

CE-7



NOTE: SEE PARTITION TYPES FOR GYPSUM BOARD TYPES

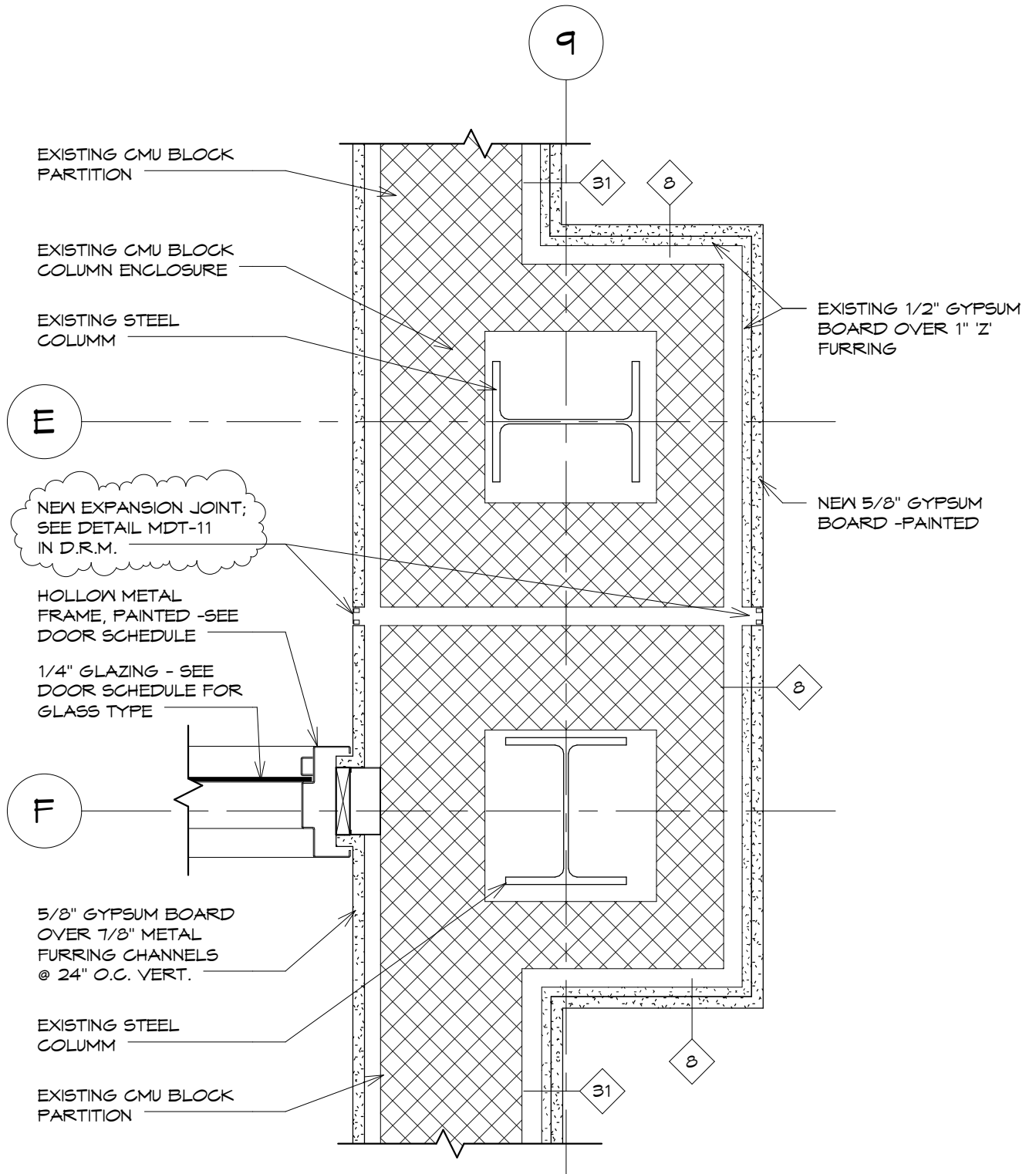
COLUMN ENCLOSURE DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #2 - MARCH 1, 2013
 ADDENDUM #3 - MARCH 7, 2013

CE-45



NOTE: SEE PARTITION TYPES FOR GYPSUM BOARD TYPES

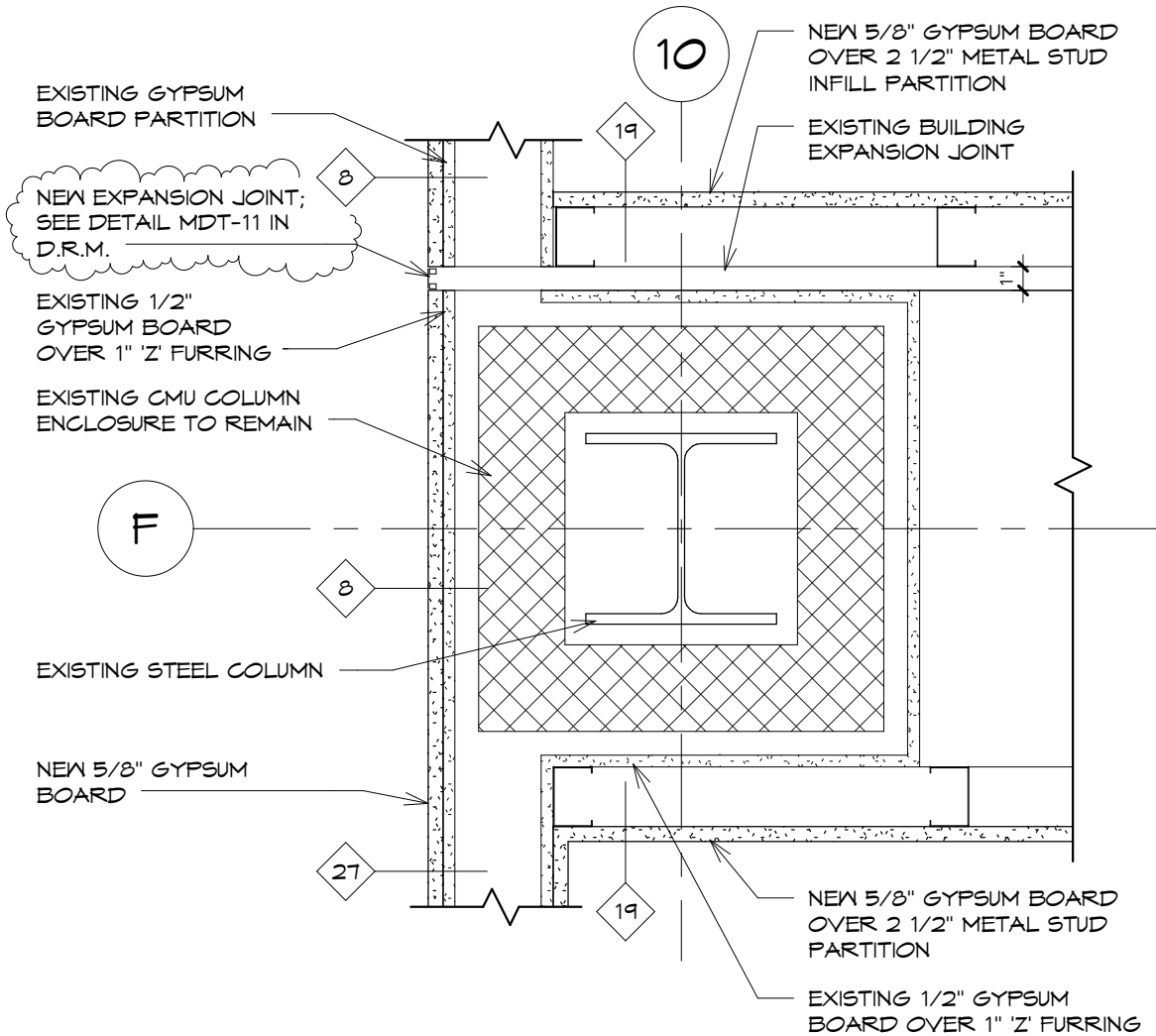
COLUMN ENCLOSURE DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

CE-46



NOTE: SEE PARTITION TYPES FOR GYPSUM BOARD TYPES

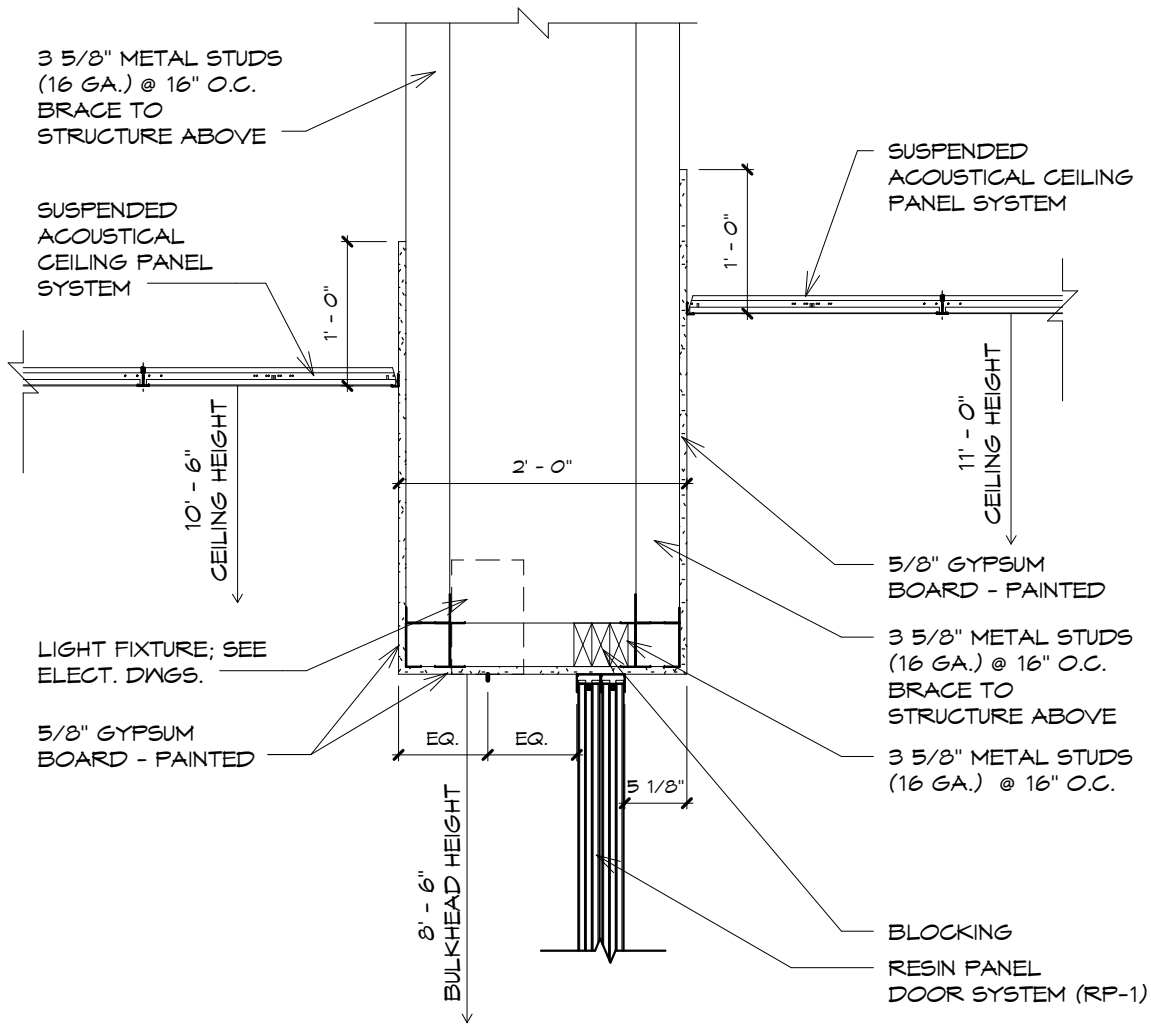
COLUMN ENCLOSURE DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

CE-47



CEILING DETAIL

SCALE: 3/4" = 1'-0"

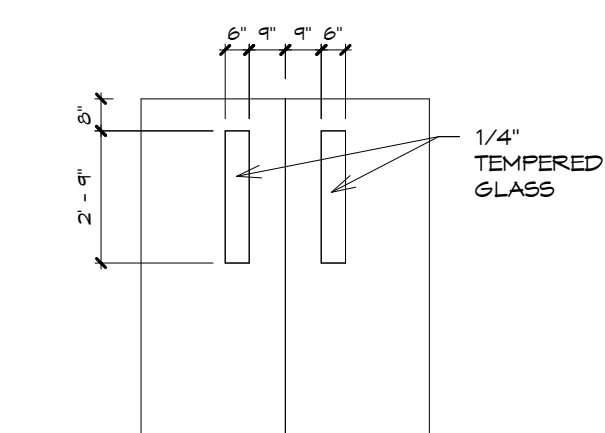
PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

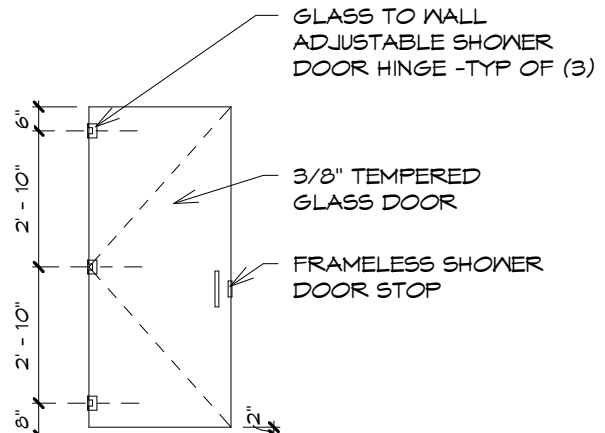
CDT-11

DOOR SCHEDULE - ALTERATIONS TO HAGG - 3395

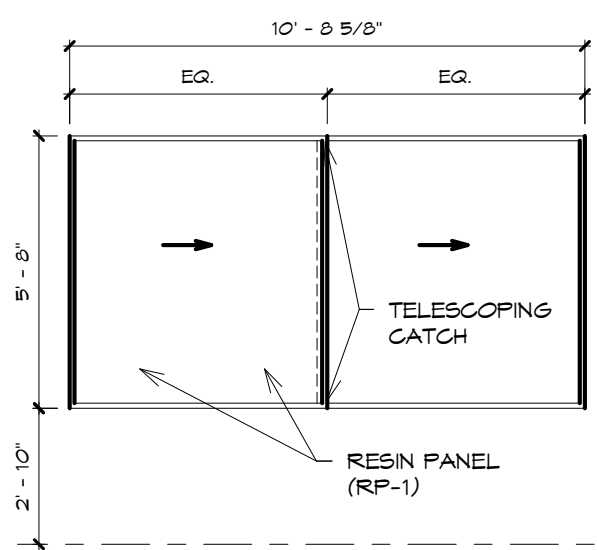
ROOM #	ROOM NAME	SIZE	DOOR MAT.	DOOR FINISH	DOOR ELEV	DOOR FRAME MAT.	DOOR FRAME FINISH	DOOR FRAME ELEV	HEAD	JAMB	SILL	LABEL	HDA.	COMMENTS
100/1	VESTIBULE	ETR	ETR	ETR	-	ETR	ETR	-	-	CE-35	-	-	1	CARD READER
100/2	VESTIBULE	ETR	ETR	ETR	-	ETR	ETR	-	-	-	-	-	18	
100/3	VESTIBULE	ETR	ETR	ETR	-	ETR	ETR	-	-	DD-32	-	-	2	
100/4	VESTIBULE	ETR	ETR	ETR	-	ETR	ETR	-	-	-	-	-	2	
101/1	VESTIBULE	ETR	ETR	ETR	-	ETR	ETR	-	-	CE-28	-	-	2	
103/1	BOARD ROOM	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-2	DD-2	DD-3,6	-	-	3	CARD READER
104/1	RECEPTION	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-2	DD-2	DD-3,6	-	-	4	CARD READER
104/2	RECEPTION	3'0" X 7'0" X 13/4" Pocket Reception Security Door	-	RP-1	DR-8	-	-	-	GDT-11	DD-44	MDT-52	-	5	
104/3	RECEPTION	3'0" X 7'0" X 13/4" Pocket Reception Security Door	-	RP-1	DR-9	-	-	-	GDT-11	DD-44	MDT-52	-	5	
105/1	VICE PRESIDENT OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-5	DD-2	DD-3,6	-	-	6	
106/1	OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
109/1	JANITOR	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-1	HM	P-18	FR-1	DD-2	DD-3	-	-	8	
110/1	MEN'S TLT	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-1	HM	P-18	FR-1	DD-2	DD-3	-	-	10	
111/1	WOMEN'S TLT	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-1	HM	P-18	FR-1	DD-2	DD-3	-	-	10	
112/1	OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-2	DD-2	DD-3,6	-	-	13	CARD READER
114/1	OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-1	DD-2	DD-3	-	-	9	
116/1	DIRECTOR FINANCIAL AID	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
117/1	DIRECTOR MILITARY AFFAIRS	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	9	
119/1	OPEN OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-1	DD-2	DD-3,6	-	-	15	CARD READER
120/1	REGISTRAR	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-1	DD-2	DD-3	-	-	7	
121/1	DIRECTOR ENR/SERVICES	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
122/1	DIRECTOR OF RECORDS	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
123/1	DEAN	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
124/1	DEAN	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
125/1	VICE PRESIDENT	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-5	DD-2	DD-3,6	-	-	6	
128/1	WORK ROOM	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-2	DD-2	DD-3,6	-	-	11	CARD READER
128/2	WORK ROOM	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-2	DD-18	DD-15,16	-	-	15	CARD READER
130/1	OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	6	
131/1	OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
132/1	CAMPUS TECH SUPPORT	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
133/1	OFFICE	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-4	DD-2	DD-3,6	-	-	7	
134/1	USER SUPPORT	3'0" X 7'0" X 13/4"	WOOD	PLAM-1	DR-2	HM	P-18	FR-3	DD-2	DD-3,6	-	-	7	



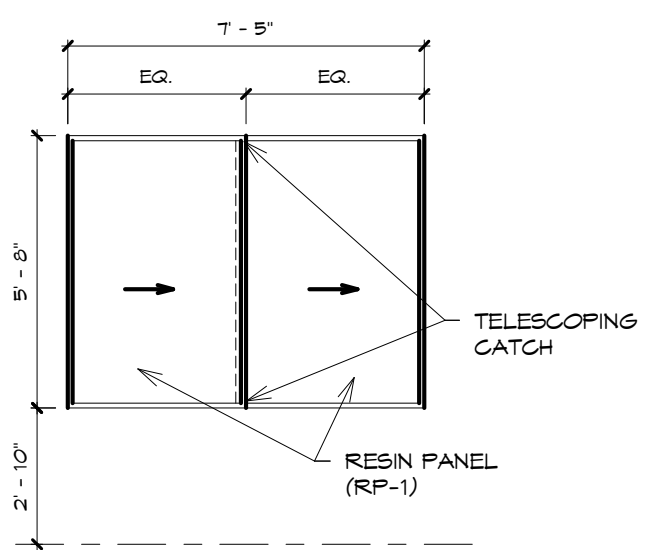
FINISHED WOOD
DOOR W/
VISION LIGHT
DR-6



GLASS SHOWER
HINGE DOOR
DR-7



RESIN PANEL
DOOR
DR-8



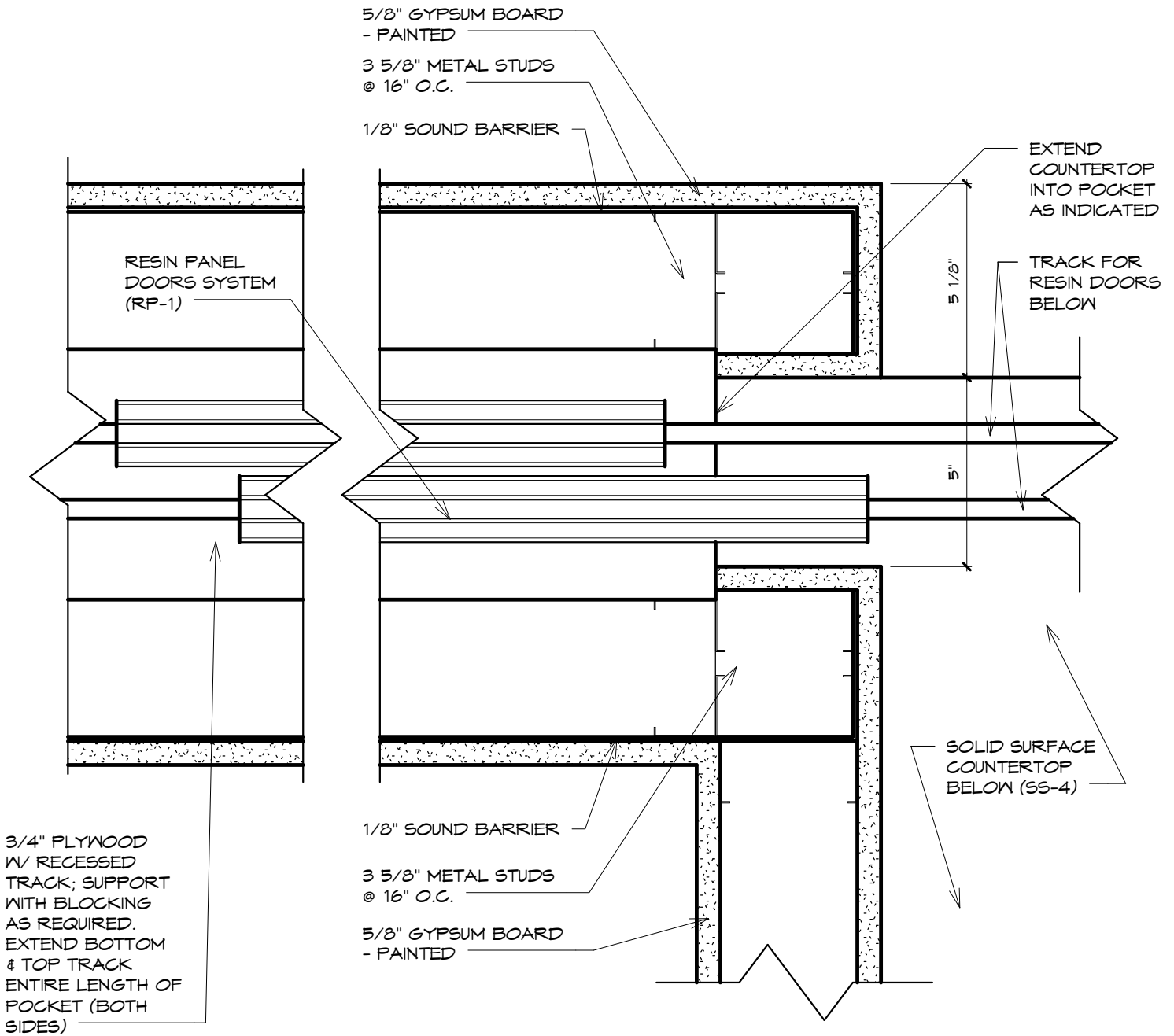
RESIN PANEL
DOOR
DR-9

DOOR ELEVATIONS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
3395/ ALTERATIONS TO HACC TED LICK
ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013



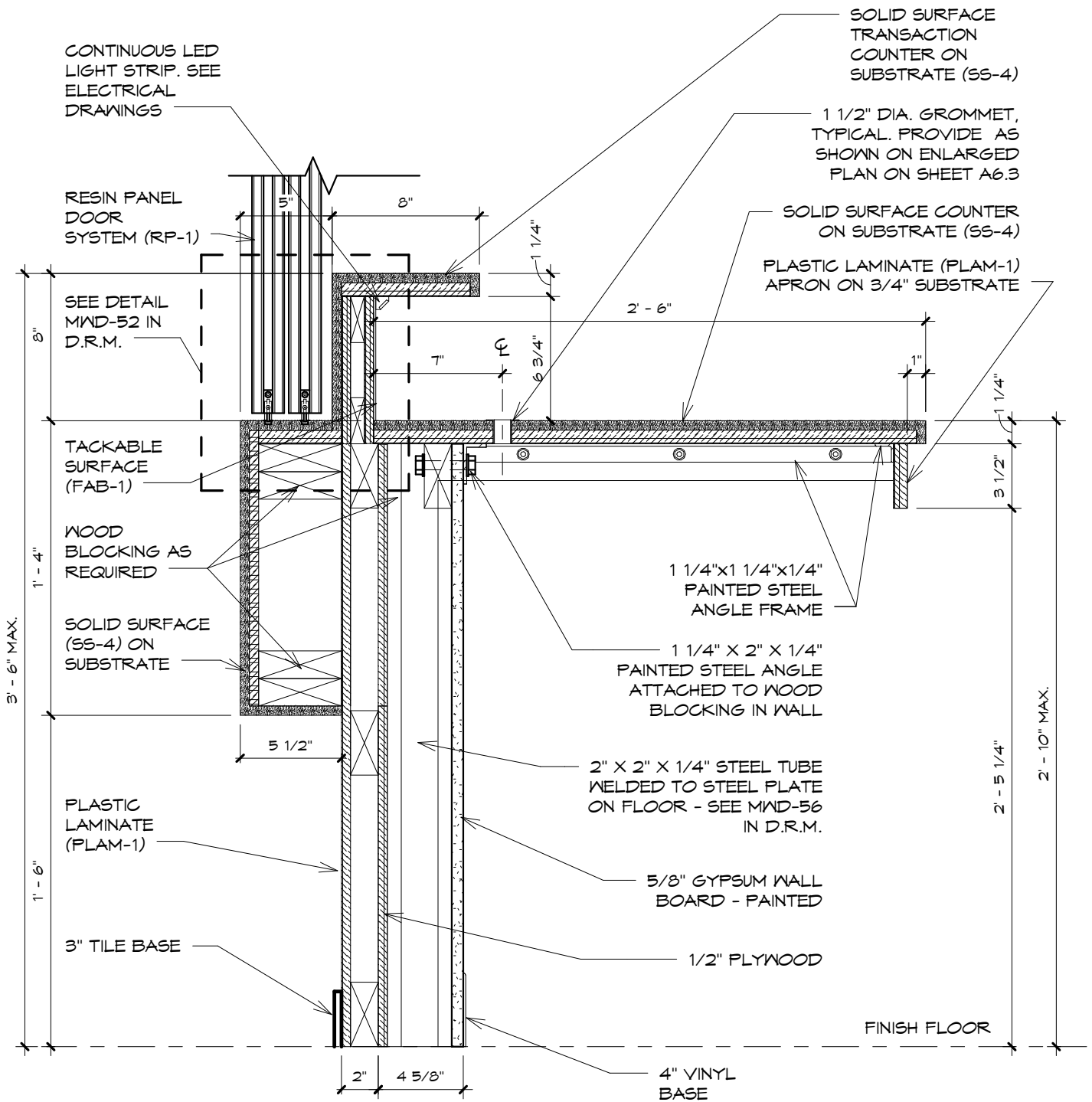
DOOR DETAIL

SCALE: 3" = 1'-0"

PHASE 3 - CONSTRUCTION DOCUMENTS
3395/ ALTERATIONS TO HACC TED LICK
ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

DD-44



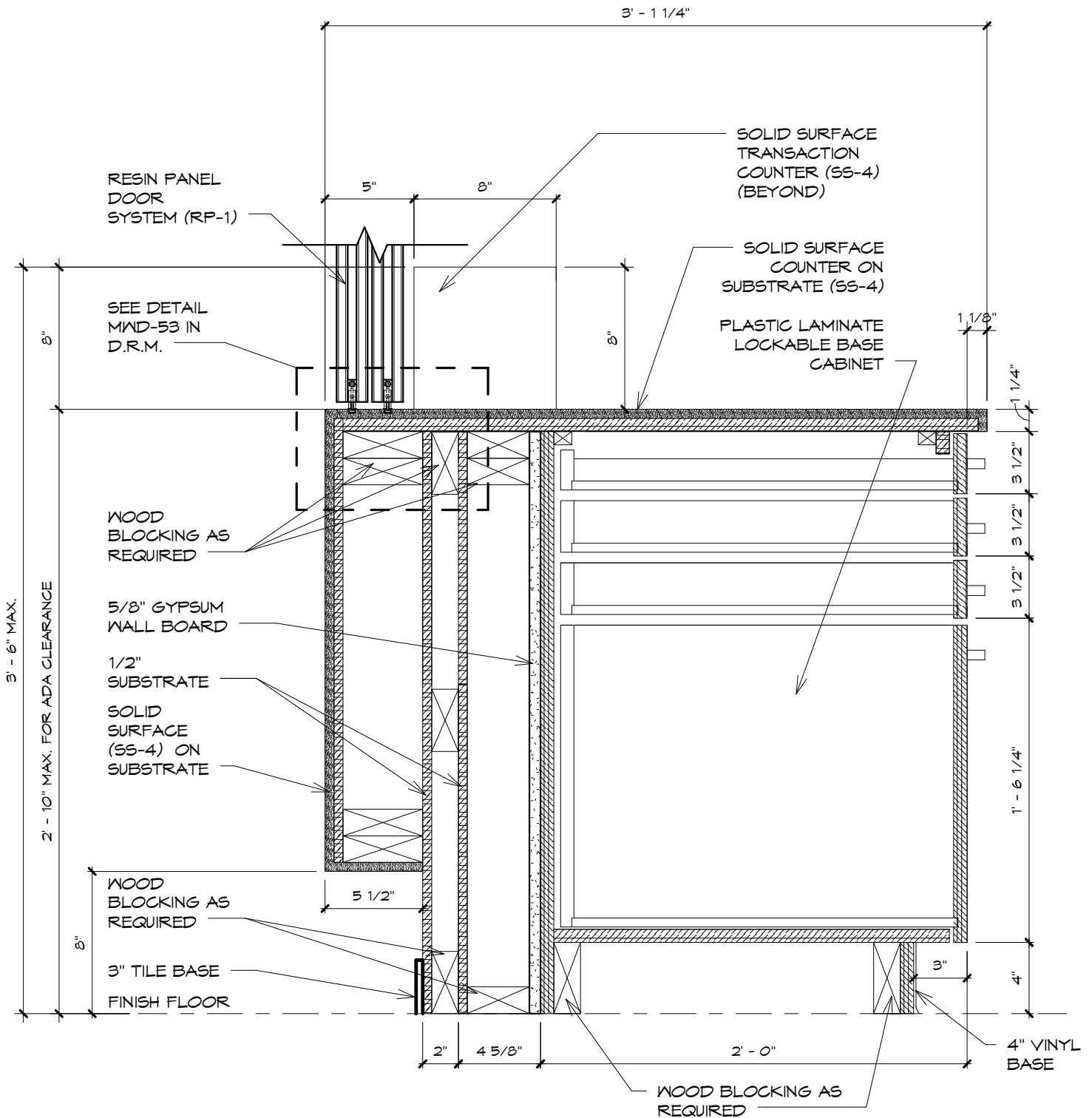
MILLWORK DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MWD-9



NOTE: ADHERE PLASTIC LAMINATE TO ALL EXPOSED SURFACES.

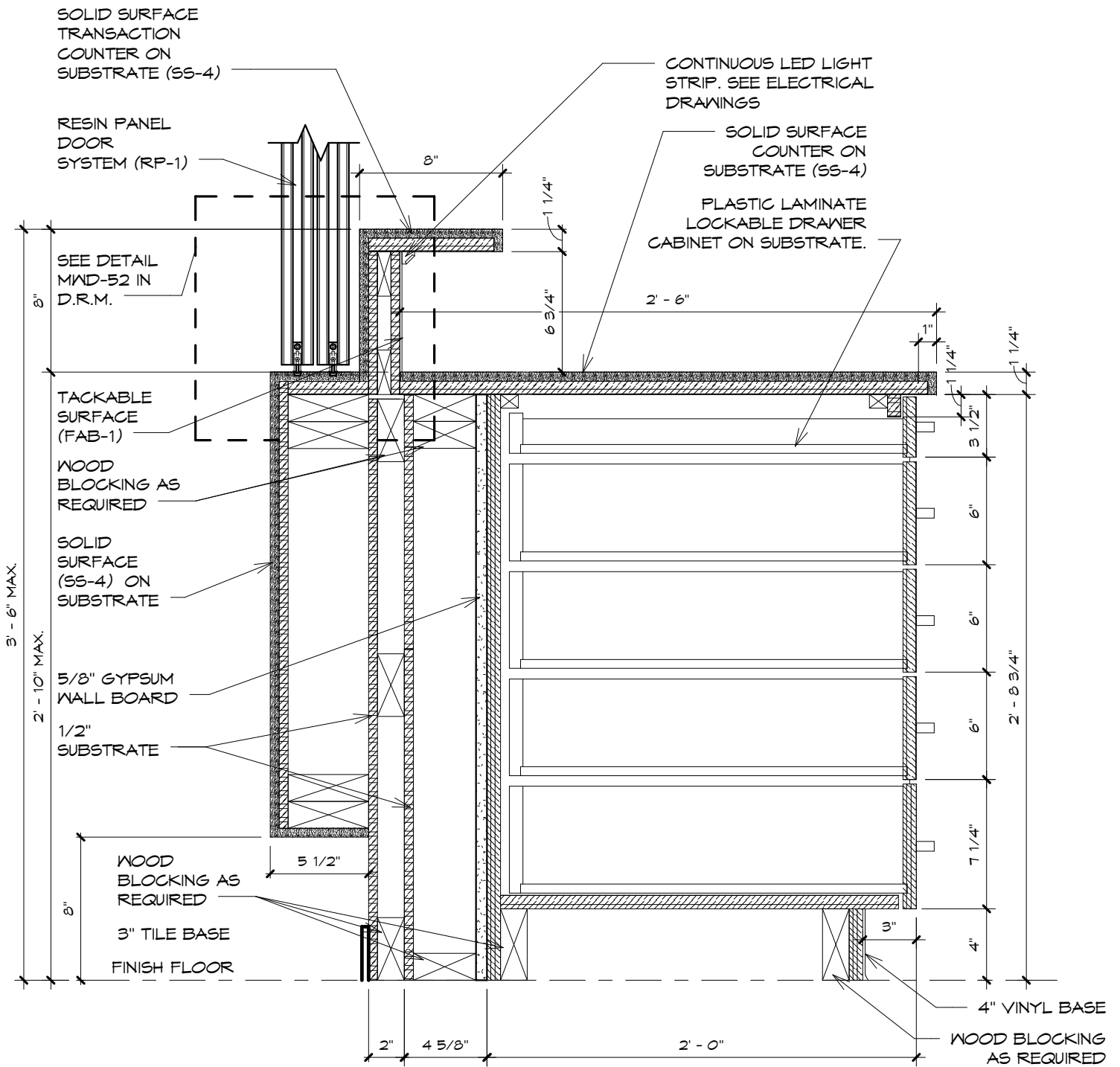
MILLWORK DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MWD-30



NOTE: ADHERE PLASTIC LAMINATE TO ALL EXPOSED SURFACES

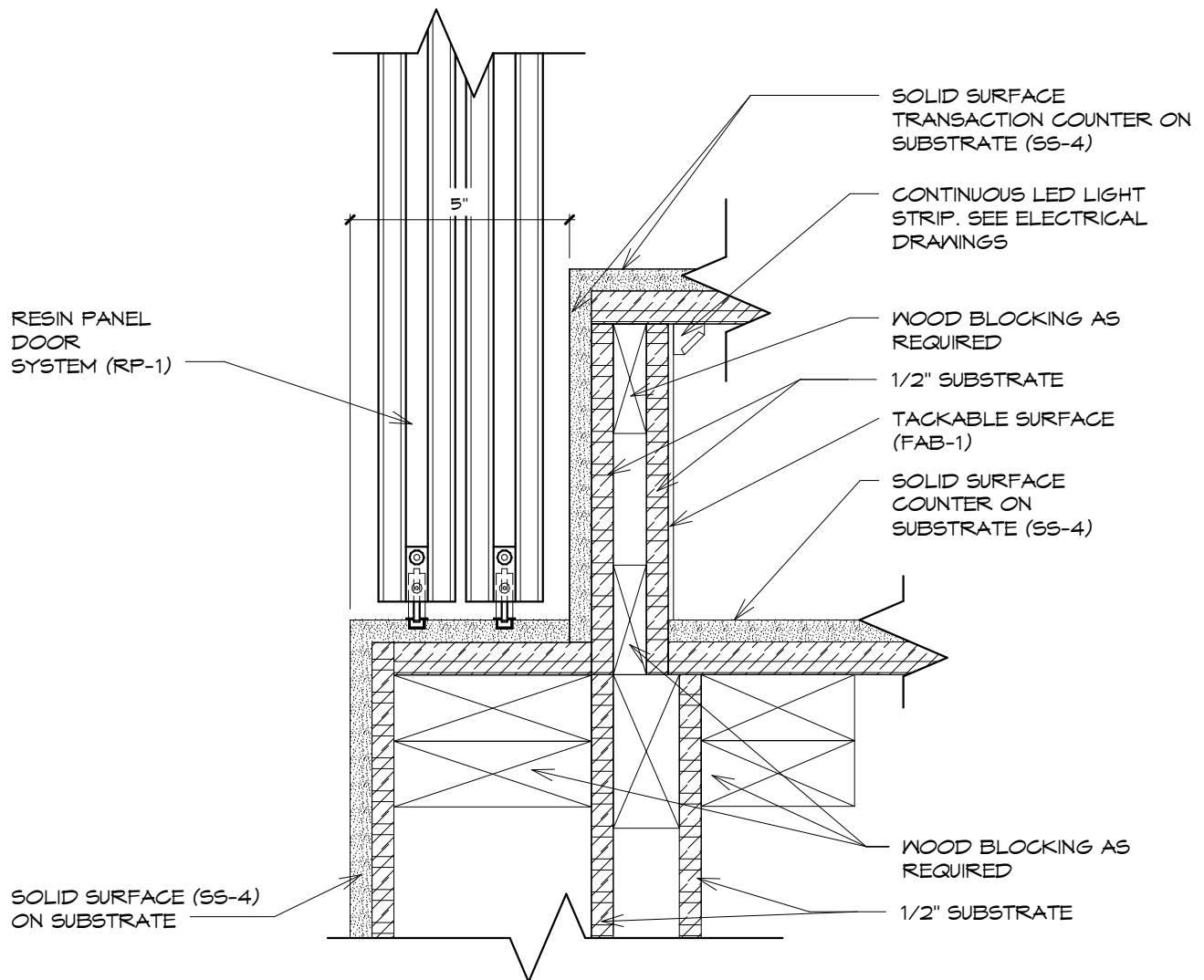
MILLWORK DETAILS

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

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MND-33



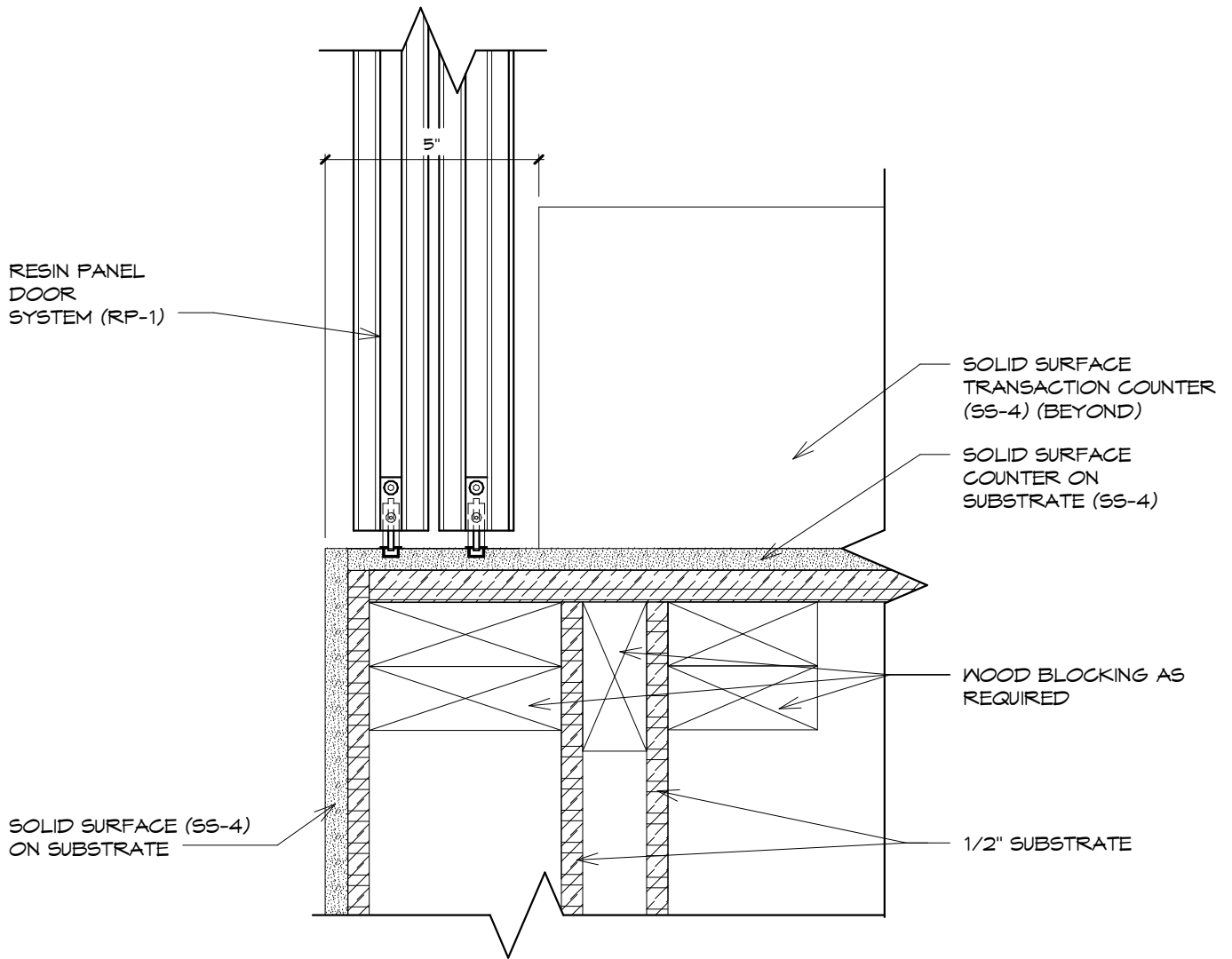
MILLWORK DETAILS

SCALE: 3" = 1'-0"

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MWD-52



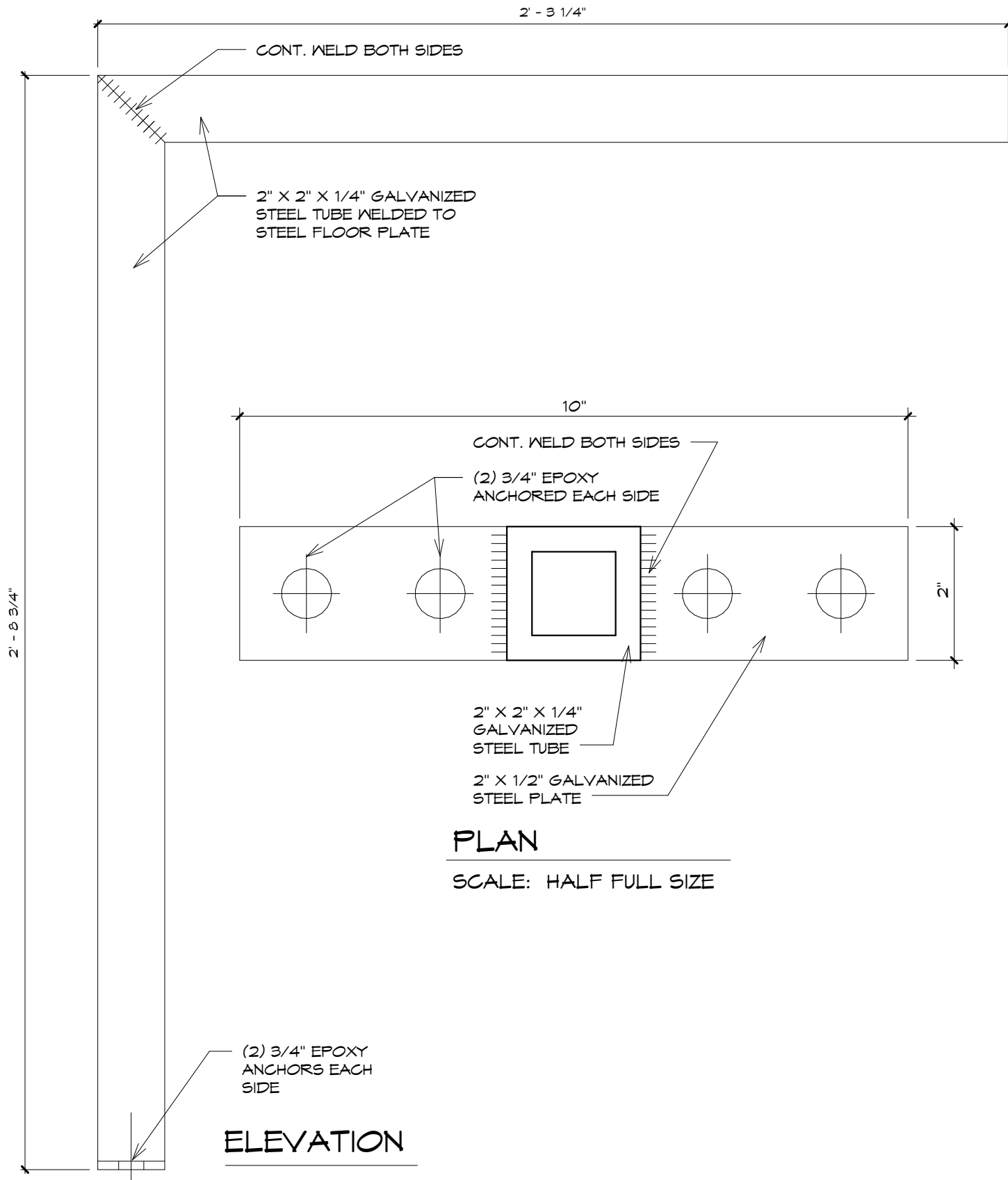
MILLWORK DETAILS

SCALE: 3" = 1'-0"

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MWD-53



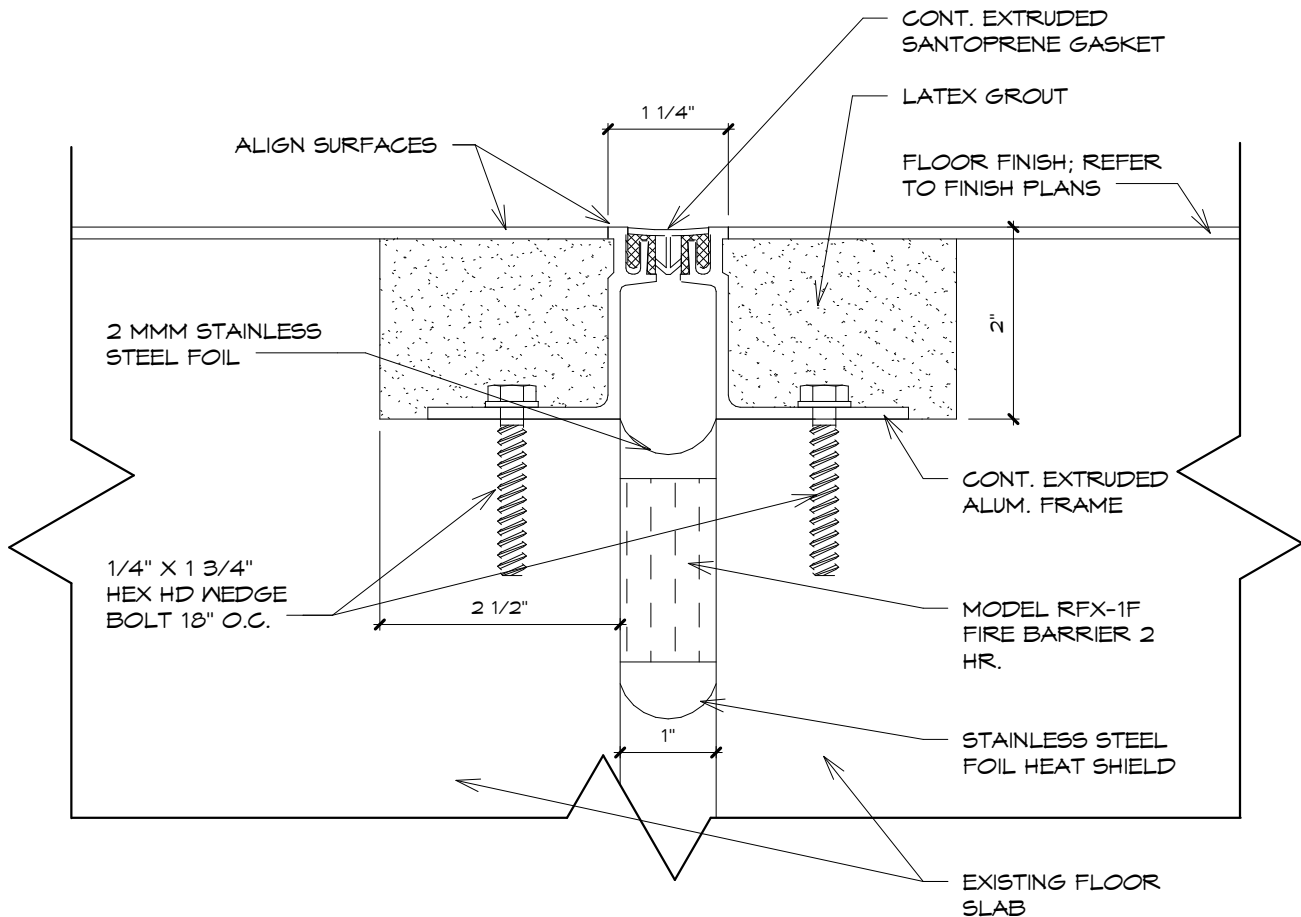
MILLWORK DETAILS

SCALE: 3" = 1'-0"

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MWD-56



NOTE: MANUFACTURER: CONSTRUCTION SPECIALTIES; MODEL NUMBER: GFT-100 W/ FIRE BARRIER (BASIS OF DESIGN OR EQUAL). INSTALL PER MANUFACTURER'S INSTRUCTIONS. COLOR TO BE SELECTED FROM FULL RANGE OF COLORS.

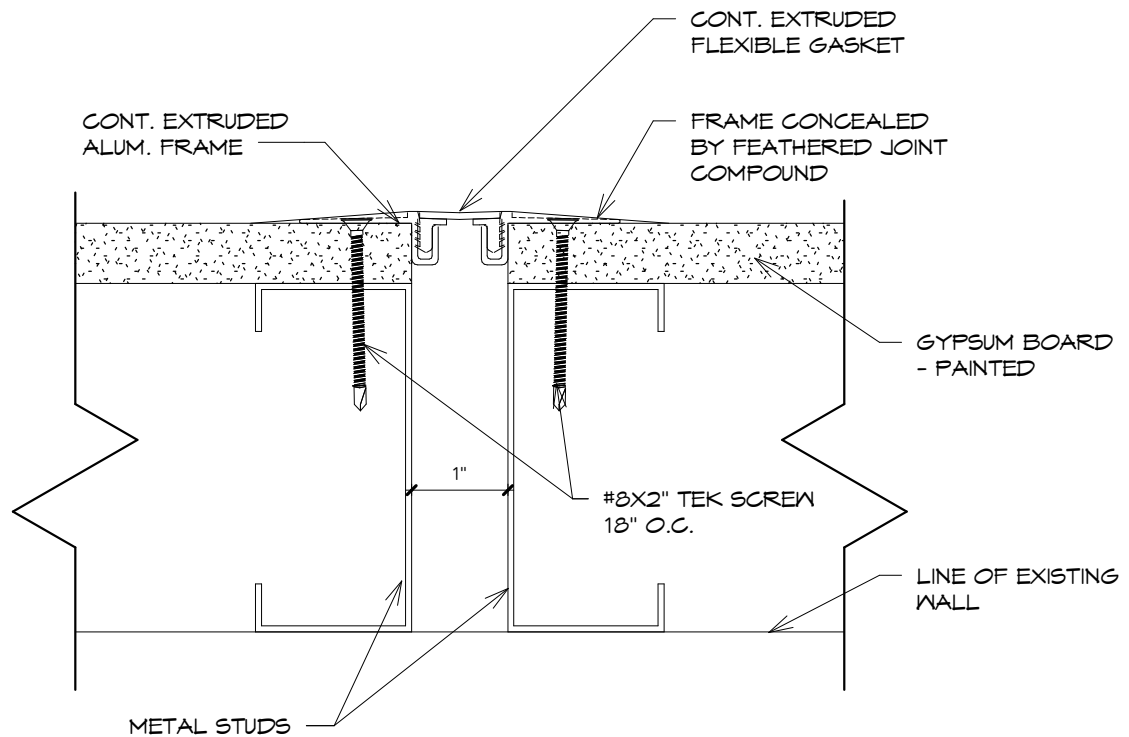
FLOOR EXPANSION JOINT

SCALE: 6" = 1'-0"

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MDT-10



NOTE: MANUFACTURER: CONSTRUCTION SPECIALTIES; MODEL NUMBER: FWF-100 (BASIS OF DESIGN OR EQUAL). INSTALL PER MANUFACTURER'S INSTRUCTIONS. COLOR TO BE SELECTED FROM FULL RANGE OF COLORS.

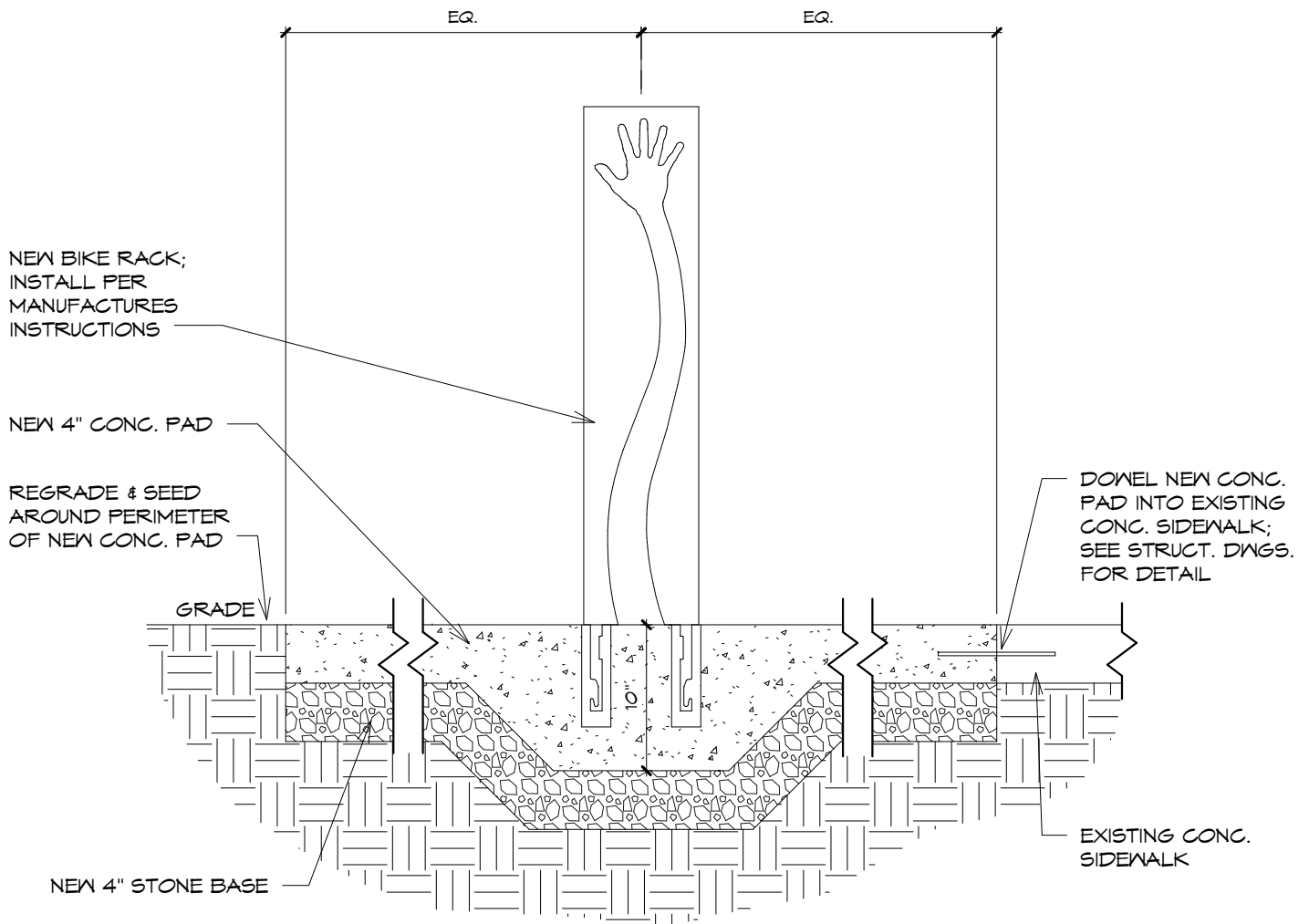
WALL EXPANSION JOINT

SCALE: 6" = 1'-0"

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MDT-11



NOTE: REMOVE EXISTING LAWN, TOPSOIL AND SUB-BASE AS REQUIRED FOR INSTALLATION OF NEW CONCRETE PAD.

BIKERACK DETAIL

SCALE: 1" = 1'-0"

PHASE 3 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC TED LICK
 ADMINISTRATION BUILDING/ FEBRUARY 8, 2013
 MURRAY ASSOCIATES ARCHITECTS, P.C.

ADDENDUM #3 - MARCH 7, 2013

MDT-12