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Letter of Transmittal

TO: All Plan Holders
FROM: Keith Barrett/pm
DATE: June 1, 2011
SUBJECT: Project BR-85-1103
Renovation to Student Center (Building 300)
Bainbridge College, Bainbridge, Georgia

WE ARE SENDING YOU:

- Enclosed
- Prints
- Change order
- Pages via Mail
- 15 Pages via Email** (including cover)
- Specifications

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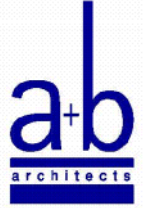
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1	6/1/2011	Addendum No. One (2)

Transmitted as checked below:

- For your use**
- As requested
- For your information
- For review & comment
- No exceptions taken
- Exceptions noted
- Resubmit

REMARKS:

COPY TO FILE: ABA File 10019 / C-1



BR-85-1103

**RENOVATION TO STUDENT CENTER
(BUILDING 300)**

BAINBRIDGE COLLEGE

BAINBRIDGE, GEORGIA

ADDENDUM NO. 2

June 1, 2011

REVISIONS TO ADDENDUM NO.1:

1. Item # 8. Specification Section 6400 Architectural Woodwork. The attachment was not included. Add attached Specification Section 6400 Architectural Woodwork.

REVISIONS TO THE SPECIFICATIONS:

2. Section 07812, Applied Fireproofing: Add the attached specification in its entirety.
3. Section 10100, Markerboard, Tackboard and Display Devices: At Part 2 – Products 2.03 Markerboard Assemble A. 1 Available Manufacturers: add m. United Visual Products.

REVISIONS TO THE DRAWINGS:

4. Sheet A3200:
 - A. At Detail 1/A3200 At note” Spray all beams, tubing, and metal deck with Fire Proofing to provide 1 hour rating. Typical at East and West Lobbies.”
 - B. At Detail 1/A3200 At note” Spray all beams, tubing, and metal deck with Fire Proofing to provide 1 hour rating. Typical at East and West Lobbies.”
5. Sheet A4000:
 - A. At Door Schedule,
 - a. At door 305B change frame type from” AL-9” to “AL-10”.
 - b. At doors 301B, 302B, 324A and 337B add electric opener with remote button operator. Provide Dorma Model ED400 with wireless operation button, proximity sensors and all require hardware for complete operation. Horton and Stanley are also approved manufacturers. Color shall be clear anodized aluminum.
 - B. At Aluminum Door Frame Types, Change “AL-9” at sliding doors to “AL-10”.
6. Sheet A5000: At Index to Finish Schedule, at bottom add note “Where existing slab is not recessed for mortar bed, tile shall be thin set.”
7. Sheet E3000:
 - A. Contractor shall provide 120 volt power (1/2”C., 3#12's from nearest receptacle circuit) to serve powered door openers at Doors 301B, 302B, 324A, and 337B. At doors 324A and 337B, utilize power shown as noted by keyed note #8 at these two doors.

- B. Provide backbox and all connections as necessary from opener motor to pushbutton on each side of door. Rough in conductors in flex conduit concealed in aluminum store front framing as required. Coordinate exact rough in requirements with installer and equipment shop drawings.

8. Sheet P2000:

- A. At northeast column of East Lobby 301, delete "4" Downspout nozzle" and add "extend drain to below grade and tie into existing drain line, approximate location shown on sheet."
- B. Refer to addendum drawings AD2-P1 & AD2-P2 dated 06.01.2011 for the addition of floor drains, clean-up faucets, and ball valves to WOMENS TOILET 309, MENS TOILET 312, RESTROOM 346, & RESTROOM 347.

END

SECTION 06400

ARCHITECTURAL WOODWORK

PART 1 GENERAL

1.01 QUALITY ASSURANCE

- A. AWI Quality Standard: Comply with requirements of "Architectural Woodwork Quality Standards" published by the Architectural Woodwork Institute (AWI), Seventh Edition (1997), except as otherwise indicated on the drawings.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data for each product and process specified as work of this section and incorporated into items of architectural woodwork during fabrication, finishing, and installation.
- B. Shop Drawings: Submit shop drawings showing location of each item, dimensioned plans and elevations, large scale details, attachment devices and other components.
- C. Samples: Submit the following samples:
 - 1. Exposed cabinet hardware, one unit of each type and finish.
 - 2. Provide sample cabinet of each type for approval and to set standard of quality for all case work. Sample unit maybe incorporated in final project. Casework shall not be built unit all samples are approved.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Protect woodwork during transit, delivery, storage and handling to prevent damage, soiling and deterioration.
- B. Do not deliver woodwork until painting, wet work, grinding operations which could damage, soil or deteriorate woodwork have been completed in installation areas. If, due to unforeseen circumstances, woodwork must be stored in other installation areas, store only in areas meeting requirements specified for installation areas.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Manufacturer: Subject to compliance with requirements, provide high pressure decorative laminates of one of the following:
 - 1. Formica Corp.
 - 2. Nevamar Decorative Surfaces
 - 3. Pioneer Plastics, Corp.
 - 4. Wilson-Art International, Inc.

2.02 FABRICATION, GENERAL

- A. Fabricate woodwork to dimensions, profiles, and details indicated on the drawings with openings and mortises pre-cut to receive hardware and other items and work.
- B. Complete fabrication, assembly, finishing, hardware application, and other work before shipment to project site to maximum extent possible. Disassemble components only for shipment and installation. For fitting at site, provide ample allowance for scribing, trimming, and fitting.
- C. Pre-cut Openings: Fabricate architectural woodwork with pre-cut openings to receive hardware, appliances, plumbing fixtures, and electrical work. Locate openings and use templates or roughing in diagrams for size and shape. Smooth edges of cutoffs and, where located in countertops, seal edges of cutouts with a water-resist coating.

- D. Measurements: Before proceeding with fabrication of woodwork to be fitted to other construction, obtain field measurements and verify dimensions and shop drawings and details for accurate fit.

2.03 ARCHITECTURAL CABINETS, WOOD

- A. Quality Standard: Comply with AWI Section 400 and its Division 400A "Wood Cabinets", plus the following requirements B and C.
- B. All wood used in cabinet construction shall be plywood of solid wood veneers or solid wood. Particle and flake board products shall not be used.
- C. Wood cabinets for transparent finish: Comply with the following requirements:
 - 1. Grade: Premium.
 - 2. Wood species for exposed surfaces: Plain Sliced Red Oak.
 - 3. Wood species for semi-exposed surfaces: Match species and cut indicated for exposed surfaces.

2.04 CABINET HARDWARE

- A. Provide cabinet hardware and accessory materials associated with architectural cabinets, except for items which are specified in Division 8, Section 0870, "Finish Hardware".
- B. Cabinet hardware schedule shall include, but is not limited to the following:
 - 1. Typical Hardware:
 - Door and drawer pulls - Stanley 4484-1/2, US 26
 - Hinges - Self-closing, Blum 180°
 - Drawer slides - KV 1300
 - Adjustable standards and shelf supports - KV 255 x 256
 - Adjustable standards with brackets - KV 87ANO x 186, 10"
 - Base Cabinet Doors Locks: Knappe & Vogt No. 986 lock each leaf, key each space alike.
 - Pocket door hinge: Knappe & Vogt No. 8092P

2.05 ARCHITECTURAL CABINET TOPS

- A. Quality Standard: Comply with AWI Section 400 and its Division 400C, plus the following requirement B through F.
- B. Type of Top: Solid Surface.
- C. Grade: Premium
- D. Laminate cladding for horizontal surface: high pressure decoration laminate complying with NEMA SL 3 matching selections indicated on drawings; grade GP-50 (0.050" nominal thickness).
- E. Edge Treatment: Same as laminate cladding on horizontal surfaces.
- F. Colors: Exterior faces and edges; colors shown on the drawings.

PART 3 EXECUTION

3.01 PREPARATION

- A. Condition woodwork to average prevailing humidity conditions in installation areas prior to installing.

3.02 INSTALLATION

- A. Install woodwork plumb, level, true and straight with no distortions. Shims using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including tops); and with no variations in flushness of adjoining surfaces.
- B. Scribe and cut woodwork to anchors or blocking built-in or attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing.
- C. Anchor woodwork to anchors or blocking built-in or attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners

- and blind nailing.
- D. Cabinets: Install without distortion so that doors and drawers fit openings and are aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.
- E. Tops: Anchor to base units and other support systems as indicated on the drawings.

3.03 ADJUSTMENT, CLEANING, FINISHING, AND PROTECTION

- A. Repair damaged and defective woodwork to eliminate defects or replace woodwork. Adjust joinery for uniform appearance.
- B. Clean, lubricate and adjust hardware.
- C. Clean woodwork on exposed and semi-exposed surfaces. Touch-up shop-applied finishes to restore damaged or soiled areas.

END.

SECTION 07812

APPLIED FIREPROOFING

PART 1 GENERAL

1.01 SUMMARY

- A. Work under this section consists of the furnishing of all labor, materials, equipment, and services necessary for, and incidental to, the complete and proper installation of all cementitious fireproofing and related work as shown on the drawings or specified herein, and in accordance with all applicable requirements of the contract documents.
- B. Conform to the applicable building code requirements of all authorities having jurisdiction.

1.02 RELATED SECTIONS

- A. Section 05120: Structural Steel.
- B. Section 05310: Steel Deck.
- C. Section 07210: Building Insulation.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM E 605 — Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material Applied to Structural Members.
 - 2. ASTM E 736 — Cohesion/Adhesion of Sprayed Fire-Resistive Material Applied to Structural Members.
 - 3. ASTM E 859 — Air Erosion of Sprayed Fire-Resistive Material Applied to Structural Members.
 - 4. ASTM E 761 — Compressive Strength of Sprayed Fire-Resistive Material Applied to Structural Members.
 - 5. ASTM E 759 — Effect of Deflection on Sprayed Fire-Resistive Material Applied to Structural Members.
 - 6. ASTM E 760 — Effect of Impact on Bonding of Sprayed Fire Resistive Material Applied to Structural Members.
 - 7. ASTM E 937 — Corrosion of Steel by Sprayed Fire Resistive Material Applied to Structural Members.
 - 8. ASTM G 21 — Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
 - 9. ASTM E 119 — Standard Methods of Fire Tests of Building Construction and Materials.
 - 10. ASTM E 84 — Surface Burning Characteristics.
 - 11. ASTM E 1354 — Cone Calorimeter.

- B. Bureau of Building Inspection: City of San Francisco.
 - 1. Abrasion Resistance Test Method.
 - 2. Impact Penetration Test Method.
- C. Underwriters Laboratories Inc. (UL) Fire Resistance Directory (Latest Edition).
- D. Uniform Building Code (UBC).
 - 1. UBC Standard No. 7-6 Thickness, Density Determination and Cohesion/Adhesion for Spray-Applied Fireproofing.
 - 2. UBC Standard No. 7-7 Methods for Calculating Fire Resistance of Steel, Concrete and Wood Construction.
- E. Uniform Mechanical Code (UMC)
 - 1. UMC Standard 6-1.

1.04 DEFINITIONS

- A. Cementitious Mixture as identified by Underwriters Laboratories Inc. in the latest edition of the UL Fire Resistance Directory under category CHPX, Spray-Applied Fire Resistive Material.

1.05 SUBMITTALS

- A. Manufacturer's Data: Submit manufacturer's instructions for proper application of cementitious fireproofing.
- B. Fire Testing: Submit evidence that the cementitious fireproofing has been subjected to full-scale ASTM E 119 fire testing at Underwriters Laboratories Inc. by the manufacturer.
- C. Thickness Schedule: Provide schedule indicating material to be used, building elements to be protected with spray-applied fireproofing, hourly rating and material thickness provided and appropriate references.
- D. Test Data: Independent laboratory test results for fireproofing shall be submitted for the following performance criteria:
 - 1. Bond Strength per ASTM E 736.
 - 2. Compressive Strength per ASTM E 761.
 - 3. Deflection per ASTM E 759.
 - 4. Bond Impact per ASTM E 760.
 - 5. Air Erosion per ASTM E 859.
 - 6. Corrosion Resistance per ASTM E 937.
 - 7. High Speed Air Erosion per UMC Standard 6-1 and ASTM E 859.
 - 8. Surface Burning Characteristics per ASTM E 84.
 - 9. Combustibility per ASTM E 1354 Cone Calorimeter.
 - 10. Mold Resistance per ASTM G 21 and UMC Standard 6-1.

11. Abrasion Resistance (Test Method developed by City of San Francisco, Bureau of Building Inspection).
12. Impact Penetration (Test Method developed by City of San Francisco, Bureau of Building Inspection).

1.06 QUALITY ASSURANCE

- A. Fireproofing work shall be performed by a firm acceptable to the cementitious fireproofing material manufacturer.
- B. Products, execution, and fireproofing thicknesses shall conform to the applicable code requirements for the required fire resistance ratings.
- C. Contractor, fireproofing subcontractor and independent testing laboratory shall attend a pre-installation conference to review the substrates for acceptability, method of application, applied thicknesses, inspection procedures, and other issues.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Material shall be delivered in original unopened packages, fully identified as to the manufacturer, brand or other identifying data and bearing the proper Underwriters Laboratories Inc. labels for Surface Burning Characteristic and Fire Resistance Classification.
- B. Material shall be stored off the ground, under cover, and in a dry location until ready for use. All bags that have been exposed to water before use shall be found unsuitable and discarded. Stock of material is to be rotated and used prior to its expiration date.

1.08 PROJECT/SITE CONDITIONS

- A. A minimum air and substrate temperature of 4.4°C (40°F) shall be present before application of spray-applied fireproofing. A minimum air and substrate temperature of 4.4°C (40°F) must be maintained during and for 24 hours after application of spray-applied fireproofing. Provide enclosures with heat to maintain temperature.
- B. Provide ventilation in poorly ventilated areas to achieve a minimum total air exchange rate of 4 times per hour until the material is substantially dry.

1.09 SEQUENCING AND SCHEDULING

- A. Sequence and coordinate application of cementitious fireproofing with work in other sections which would interfere with efficient fireproofing application.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. Fireproofing shall be cementitious mixture as manufactured by Grace Construction Products of W. R. Grace & Co.-Conn., or its processing distributors.

2.02 MATERIALS

- A. Materials shall be MONOKOTE® Type MK-6/HY factory blended cementitious fireproofing
- B. Physical Performance Characteristics: Fireproofing material shall meet the following physical performance standards:
1. Dry Density: The field density shall be measured in accordance with ASTM Standard E 605. Minimum average density shall be that listed in the UL Fire Resistance Directory for each rating indicated, ICBO Evaluation Report, as required by the authority having jurisdiction, or minimum average 240 kg/m^3 (15 pcf), whichever is greater.
 2. Deflection: Material shall not crack or delaminate from the surface to which it is applied when tested in accordance with ASTM E 759.
 3. Bond Impact: Material subject to impact tests in accordance with ASTM E 760 shall not crack or delaminate from the surface to which it is applied.
 4. Bond Strength: Fireproofing, when tested in accordance with ASTM E 736, shall have a minimum average bond strength of 9.6 kPa (200 psf) and a minimum individual bond strength of 7.2 kPa (150 psf).
 5. Air Erosion: Maximum allowable total weight loss of the fireproofing material shall be $.05 \text{ g/m}^2$ ($.005 \text{ g/ft}^2$) when tested in accordance with ASTM E 859. Sample surface shall be "as applied" (not pre-purged) and the total reported weight loss shall be the total weight loss over a 24 hour period from the beginning of the test.
 6. High Speed Air Erosion: Materials to be used in plenums or ducts shall exhibit no continued erosion after 4 hours at an air speed of 12.7 m/s (47 km/h) [2500 ft/min (29 mph)] when tested in accordance with the UMC Standard 6-1 and ASTM E 859.
 7. Compressive Strength: The fireproofing shall not deform more than 10% when subjected to compressive forces of 57 kPa (1200 psf) when tested in accordance with ASTM E 761.
 8. Corrosion Resistance: Fireproofing applied to steel shall be tested in accordance with ASTM E 937 and shall not promote corrosion of steel.
 9. Abrasion Resistance: No more than 15 cm^3 shall be abraded or removed from the fireproofing substrate when tested in accordance with the test methods developed by the City of San Francisco, Bureau of Building Inspection.
 10. Impact Penetration: The fireproofing material shall not show a loss of more than 6 cm^3 when subjected to impact penetration tests in accordance with the test methods developed by the City of San Francisco, Bureau of Building Inspection.

11. Surface Burning Characteristics: Material shall exhibit the following surface burning characteristics when tested in accordance with ASTM E 84:

Flame Spread	0
Smoke Development	0
 12. Resistance to Mold: The fireproofing material shall be formulated at the time of manufacturing with a mold inhibitor. Fireproofing material shall be tested in accordance with ASTM G-21 and shall show resistance to mold growth for a period of 28 days for general use and 60 days for materials to be installed in plenums.
 13. Combustibility: Material shall have a maximum total heat release of 20 MJ/m² and a maximum 125 kW/m² peak rate of heat release 600 seconds after insertion when tested in accordance with ASTM E 1354 at a radiant heat flux of 75 kW/m² with the use of electric spark ignition. The sample shall be tested in the horizontal orientation.
- C. Fire Resistance Classification: The spray-applied fireproofing material shall have been tested and reported by Underwriters Laboratories Inc. in accordance with the procedures of ASTM E 119 and shall be listed in the Underwriters Laboratories Fire Resistance Directory.
- D. Mixing water shall be clean, fresh, and suitable consumption and free from such amounts of mineral or organic substances as would affect the set of the fireproofing material. Provide water with sufficient pressure and volume to meet the fireproofing application schedule.

2.03 ACCESSORIES

- A. Provide accessories to comply with manufacturer's recommendations and to meet fire resistance design and code requirements. Such accessories include, but are not limited to, any required or optional items such as SPATTERKOTE[®] Type SK-3; bonding agents; mechanical attachments; application aids such metal lath, scrim, or netting; and MONOKOTE ACCELERATOR. If a bonding agent or sealer is required, Firebond Concentrate should be used.

2.04 SOURCE QUALITY CONTROL

- A. Submit evidence that the cementitious fireproofing has been tested per ASTM E 119 by Underwriters Laboratories Inc. Include evidence that the fire testing was sponsored by the manufacturer and that the material tested was produced at the manufacturer's facility under the supervision of Underwriters Laboratories Inc. personnel. Letters documenting classification status are not acceptable evidence of compliance with this section.

PART 3 EXECUTION

3.01 EXAMINATION

- A. All surfaces to receive spray-applied fireproofing shall be provided free of oil, grease, paints/primers, loose mill scale, dirt, or other foreign substances which may impair proper adhesion of the fireproofing to the substrate. Where necessary, cleaning or other corrections of surfaces to receive fireproofing shall be the responsibility of the supplier of the incompatible substrate.
- B. Application of the fireproofing shall not begin until the contractor, applicator and fireproofing testing laboratory (inspector) have examined surfaces to receive fireproofing and determined that the surfaces are acceptable to receive the fireproofing material.

3.02 PREPARATION

- A. Prior to application of the fireproofing material, a bonding agent, approved by the fireproofing material manufacturer, shall be applied to all concrete substrates to receive fireproofing.
- B. Other trades shall install clips, hangers, support sleeves and other attachments required to penetrate the fireproofing, prior to application of the fireproofing material.
- C. Other trades shall not install ducts, piping, equipment or other suspended items until the fireproofing is complete.
- D. Complete placing of concrete on floor and roof decking prior to application of the fireproofing to the underside of steel deck and supporting beams and joists.
- E. On roof decks without a concrete cover, complete all roofing applications and roof mounted equipment installation prior to application of the fireproofing to the underside of roof decking and supporting beams and joists. Prohibit all roof traffic upon commencement of the fireproofing and until the fireproofing material is dry.
- F. Protection of permanently exposed walls or floors, or special surfaces: (Please indicate special protection requirements by location in a finish schedule on the plans or herein. Eliminate subparagraph F if not applicable).

3.03 APPLICATION

- A. Equipment and application procedures shall conform to the material manufacturer's application instructions.
- B. Post appropriate cautionary "Slippery When Wet" signs in all areas in contact with wet fireproofing material. Erect appropriate barriers to prevent entry by non-fireproofing workers into the fireproofing spray and mixing areas and other areas exposed to wet fireproofing material.
- C. Apply a discontinuous textured spray of W. R. Grace & Co.-Conn. SPATTERKOTE SK-3 in accordance with manufacturer's instructions to all cellular steel floor units with flat plate on the bottom and to roof deck assemblies as required to meet the fire resistance ratings, before application of the MONOKOTE fireproofing to these surfaces.
- D. Apply paint as specified to fire proofing according to manufacturer's recommendations for painting of spray applied fire proofing.

3.04 FIELD QUALITY CONTROL

- A. The architect will select, and the owner will pay an independent testing laboratory to randomly sample and verify the thickness and density of the fireproofing in accordance with provisions of ASTM E 605, or the "Inspection Procedure for Field-applied Sprayed Fire Protection Materials" as published by the Association of Wall and Ceiling Contractors International (AWCI), or the Uniform Building Code Standard No. 7-6. Where density samples are of irregular shape, a displacement method approved by Underwriters Laboratories Inc. shall be used to determine in place fireproofing density.
- B. The architect will select, and the owner will pay an independent testing laboratory to randomly sample and verify the bond strength of the fireproofing in accordance with provisions of ASTM E 736.
- C. The results of the above tests shall be made available to all parties at the completion of pre-designated areas which shall have been determined during the pre-job conference.

3.05 CLEANING

- A. After the completion of fireproofing work, application equipment shall be removed.
- B. Except as detailed in Section 3.02F, floors shall be left in a scraped condition.

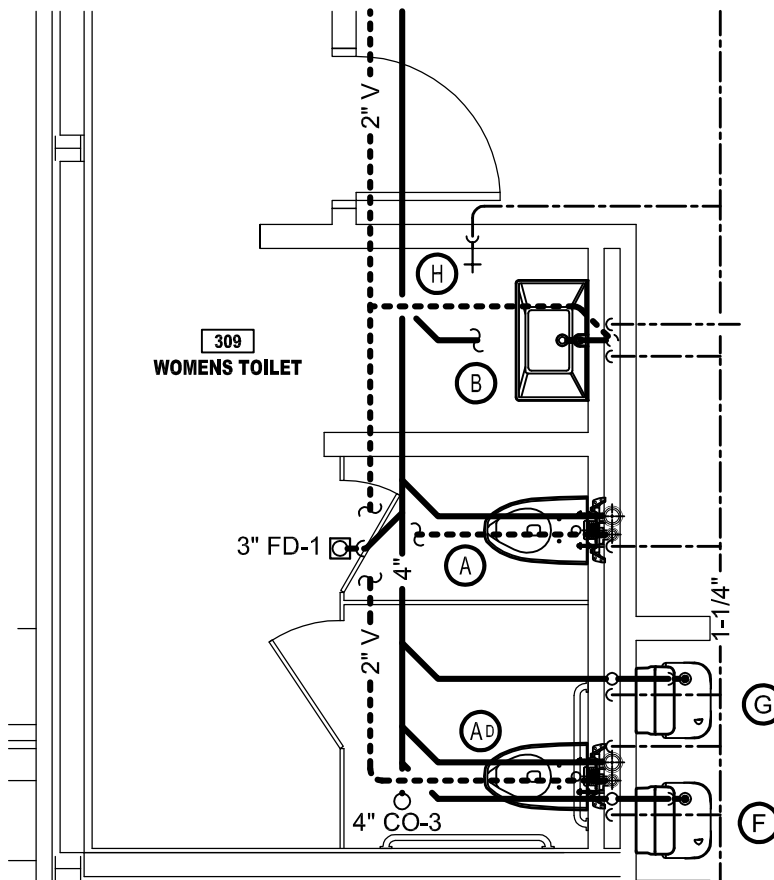
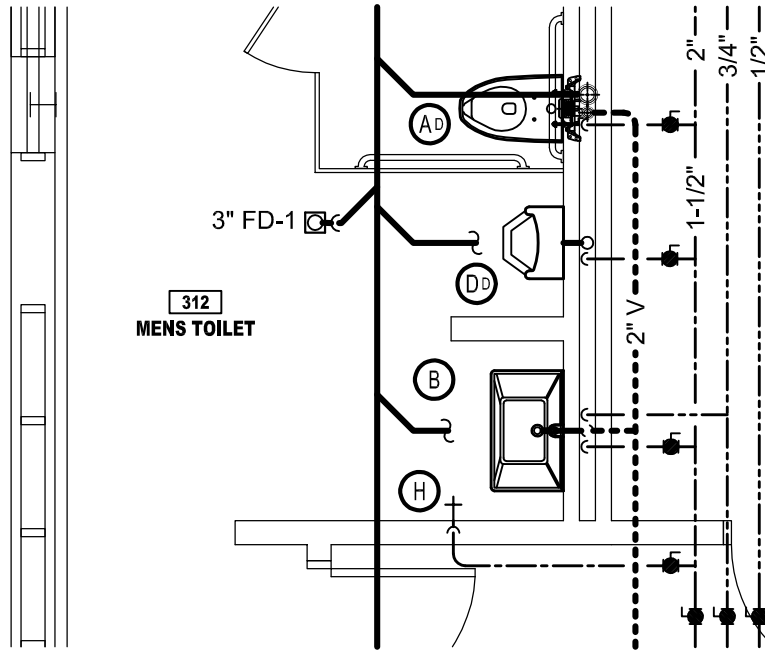
3.06 PATCHING

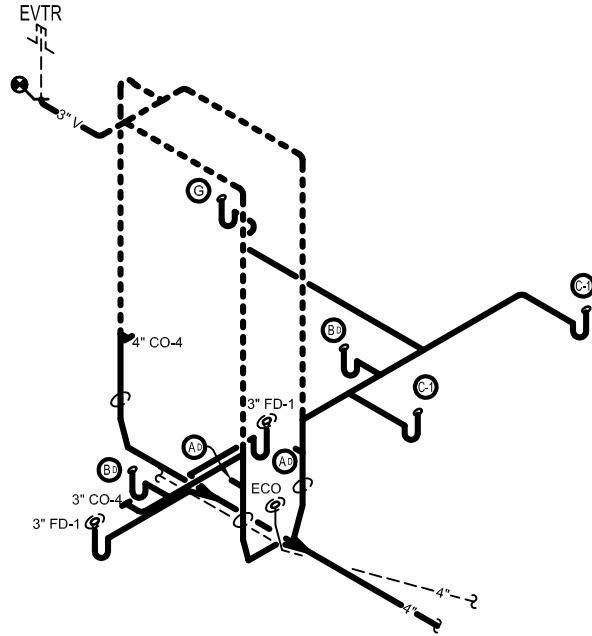
- A. All patching and repairing of spray-applied fireproofing, due to damage by other trades, shall be performed with same materials under this section, and paid for by the trade(s) responsible for the damage.

3.07 FIRE RATING SCHEDULE

	Element	Hour	Reference
A.	Roof Decks	1	UL-P732
B.	Roof Supports	1	UL-P732

END





RMS. 346, 347, 351 & 354 SANITARY SEWER RISER- PLUMBING

NOT TO SCALE

