



Office of General Services

DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. 47441

CONSTRUCTION, HVAC, PLUMBING AND ELECTRICAL WORK RECONFIGURE BATHROOMS BUILDING 1, 4, 6 & 7 ELMIRA PSYCHIATRIC CENTER 100 WASHINGTON STREET ELMIRA, NEW YORK

July 24, 2026

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

CONSTRUCTION WORK SPECIFICATIONS

1. SECTION 093013 CERAMIC TILING: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 093013 – 1 thru 093013 – 15) noted “Revised 7/24/2026”.
2. SECTION 102113.14 STAINLESS-STEEL TOILET COMPARTMENTS: Add the accompanying Section (pages 102113.14 – 1 thru 102113.14 – 6) to the Project Manual.

CONSTRUCTION WORK DRAWINGS

3. Drawing No. A-410:
 - a. Detail No. 2/A-410: Change Key Note designation “R12” to read “R18.”
 - b. Removal Key Notes: Add Key Note:

“R18 REMOVE EXISTING METAL STOREFRONT WINDOW SYSTEM IN ITS ENTIRETY.”
4. Drawing No. A-411:
 - a. Detail No. 5/A-411, ROOM 6212 SOUTH ELEVATION: Change Mirror Unit Designation from “MI-42” to “MI-36”, Mirror Unit MI-36 shall be sized 36” high by 24” wide.
5. Drawing No. A-412:
 - a. Detail No. 1/A-412, ROOM 6211 SOUTH ELEVATION: Change Mirror Unit Designation from “MI-42” to “MI-36”, Mirror Unit MI-36 shall be sized 36” high by 24” wide.

6. Drawing No. A-601:

- a. Door Schedule: Delete Doors 1134C, D, E, F, P, U, X and Y from Door Schedule List.

ELECTRICAL WORK DRAWINGS

7. Drawing Nos. E-101, E102, E103, E104 & E105:

- a. Keyed Notes Column, Change Note 7 to read:

“7. Provide power from adjacent receptacle circuit to powered flush valve. Provide (2) 4”x4” junction boxes for the transformer and the sensors/button. Refer to flush valve manufacturer for additional details. All junction boxes to be concealed behind access panels or other means to prevent access by occupants. Assume 20’ of wire and conduit is required to connect flush valve to adjacent receptacle circuit”.

END OF ADDENDUM

Brady Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:

1. Ceramic mosaic tile.
2. Porcelain tile.
3. Tile backing panels.
4. Waterproof membrane for thinset applications.
5. Crack isolation membrane.
6. Metal edge strips.

- B. Related Requirements:

1. Section 079200 "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
2. Section 092900 "Gypsum Board" for glass-mat, water-resistant backer board.

1.3 DEFINITIONS

- A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.
- B. ANSI A108 Series: ANSI A108.01, ANSI A108.02, ANSI A108.1A, ANSI A108.1B, ANSI A108.1C, ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."
- C. Face Size: Actual tile size, excluding spacer lugs.
- D. Module Size: Actual tile size plus joint width indicated.

1.4 PREINSTALLATION MEETINGS

1. Review requirements in ANSI A108.01 for substrates and for preparation by other trades.
2. Required Attendees:

- a. Construction Contractor.
- b. Tiling Subcontractor.
- c. Representative for the Designer of Record.
- d. Director's Representative.

1.5 SUBMITTALS

- A. General: Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
- E. Sustainable Design Submittals:
- F. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.
- G. Samples for Initial Selection: For tile, grout, and accessories involving color selection.
- H. Samples for Verification:
 - 1. Full-size units of each type and composition of tile and for each color and finish required. For ceramic mosaic tile in color blend patterns, provide full sheets of each color blend.
 - 2. Full-size units of each type of trim and accessory for each color and finish required.
 - 3. Stone thresholds in 6-inch lengths.
 - 4. Metal edge strips in 6-inch lengths.
- I. Qualification Data: For Installer.
 - 1. Name of each person who will be performing the work, trade certificates, and their employer's name, business address, and telephone number.
 - 2. Names and addresses of 3 similar projects that each person has worked on during the past 5 years.
- J. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.
- K. Product Certificates: For each type of product.
- L. Product Test Reports: For tile-setting and -grouting products and certified porcelain tile.
- M. Field Quality Control Reports: Results of moisture testing for slabs on grade.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
 - 2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Installer employs only Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers for Project.
 - 2. Installer employs at least one installer for Project that has completed the Advanced Certification for Tile Installers (ACT) certification for installation of membranes gauged porcelain tile/gauged porcelain tile panels and slabs and large format tile.
- B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Build mockup of each type of floor tile installation.
 - 2. Build mockup of each type of wall tile installation.
 - 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
- D. Store liquid materials in unopened containers and protected from freezing.

1.9 FIELD CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Tile: Obtain tile of each type and color or finish from single source or producer.
 - 1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
 - 1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
 - 2. Obtain waterproof membrane and crack isolation membrane, except for sheet products, from manufacturer of setting and grouting materials.
- C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
 - 1. Stone thresholds.
 - 2. Waterproof membrane.
 - 3. Crack isolation membrane.
 - 4. Cementitious backer units.
 - 5. Metal edge strips.

2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.
- C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.
- D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.

2.3 TILE PRODUCTS

- A. Ceramic Tile Type WT-1, 2, 3: Glazed ceramic tile.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. American Olean; a division of Dal-Tile Corporation.
 - b. Daltile.
 - c. Seneca Tiles, Inc.
 - d. Approved equivalent.
 2. Composition: Porcelain.
 3. Certification: Porcelain tile certified by the Porcelain Tile Certification Agency.
 4. Module Size: 4 by 4 inches.
 5. Thickness: 1/4 inch.
 6. Face: Pattern of design indicated, with cushion edges.
 7. Surface: Smooth, without abrasive admixture.
 8. Dynamic Coefficient of Friction: Not less than 0.42.
 9. Finish: Bright, clear glaze.
 10. Tile Color and Pattern: As selected by Director's Representative from manufacturer's full range.
 11. Grout Color: As selected by Director's Representative from manufacturer's full range.
 12. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide shapes as follows, selected from manufacturer's standard shapes:
 - a. Base Cove: Build up cover base of 5x12 of 2 by 2 mosaic tile pattern.
 - b. External Corners provide metal edge trim. Provide Schluter Rondec.
 - c. Internal Corners: Field-buttet square corners. For coved base and cap, use angle pieces designed to fit with stretcher shapes.
- B. Floor Tile Type FT-1,: Factory-mounted mosaic tile.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. American Olean; a division of Dal-Tile Corporation.
 - b. Daltile.
 - c. Seneca Tiles, Inc.
 - d. Approved equivalent.
 2. Composition: Porcelain.
 3. Certification: Porcelain tile certified by the Porcelain Tile Certification Agency.
 4. Module Size: 2 by 2 inches.
 5. Thickness: 1/4 inch.
 6. Face: Pattern of design indicated, with cushion edges.
 7. Surface: Smooth, without abrasive admixture.
 8. Dynamic Coefficient of Friction: Not less than 0.42.
 9. Tile Color and Pattern: As selected by Director's Representative from manufacturer's full range.
 10. Grout Color: As selected by Director's Representative from manufacturer's full range.

11. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide shapes as follows, selected from manufacturer's standard shapes:

- a. Base Cove: Build up cover base of 5x12 of 2 by 2 mosaic tile pattern.

2.4 THRESHOLDS

- A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
 1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to 1/2 inch or less above adjacent floor surface.

2.5 TILE BACKING PANELS

- A. Cementitious Backer Units: ANSI A118.9 or ASTM C1325, Type A, in maximum lengths available to minimize end-to-end butt joints.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; WonderBoard® Lite Backerboard.
 - b. Georgia-Pacific Gypsum LLC; DensShield® Tile Backer.
 - c. USG Corporation; DUROCK Cement Board.
 - d. Approved equivalent.
 2. Thickness: 1/2 inch

2.6 WATERPROOF MEMBRANE

- A. General: Manufacturer's standard product, selected from the following, that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
- B. Chlorinated Polyethylene Sheet: ASTM D4068; Nonplasticized, chlorinated polyethylene faced on both sides with nonwoven polyester fabric.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Noble Company (The); Chloraloy®.
 - b. Approved equivalent.
 2. Nominal Thickness: 0.030 inch.
 3. Nominal Thickness: 0.040 inch.

- C. Polyethylene Sheet: Polyethylene faced on both sides with fleece webbing; 0.008-inch minimum nominal thickness.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Mapei Corporation; Mapeguard® WP 200.
 - b. Schluter Systems L.P; KERDI.
 - c. Schönox; HPS North America, Inc.; Schonox AB.
 - d. Approved equivalent.
- D. Fabric-Reinforced, Fluid-Applied Membrane: System consisting of liquid-latex rubber or elastomeric polymer and continuous fabric reinforcement.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Boiardi Products Corporation; a QEP company; Elastiment 344 Reinforced Waterproofing and Anti-Fracture/Crack Suppression Membrane.
 - b. Custom Building Products; Custom® 9240 Waterproofing and Anti-Fracture Membrane.
 - c. Laticrete International, Inc.; Laticrete 9235 Waterproofing Membrane.
 - d. Mapei Corporation; Mapelastic 315.
 - e. Summitville Tiles, Inc.; S-9000.
 - f. Approved equivalent.
- E. Fluid-Applied Membrane: Liquid-latex rubber or elastomeric polymer.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Boiardi Products Corporation; a QEP company; Elastiment 644 Membrane Waterproofing System.
 - b. Custom Building Products; RedGard® Waterproofing and Crack Prevention Membrane.
 - c. Laticrete International, Inc.; Laticrete Hydro Ban®.
 - d. MAPEI Corporation; Mapelastic WaterStop.
 - e. Approved equivalent.
- F. Latex-Portland Cement Waterproof Mortar: Flexible, waterproof mortar consisting of cement-based mix and latex additive.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Boiardi Products Corporation; a QEP company; Elastiment 323 Cement Based Waterproofing, Anti-Fracture/Crack Suppression Membrane.
 - b. Laticrete International, Inc.; Laticrete Hydro Ban® Cementitious Waterproofing Membrane.
 - c. MAPEI Corporation; Mapelastic Turbo.
 - d. Approved equivalent.

2.7 CRACK ISOLATION MEMBRANE

- A. General: Manufacturer's standard product, selected from the following, that complies with ANSI A118.12 for high performance and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
- B. Chlorinated Polyethylene Sheet: Nonplasticized, chlorinated polyethylene faced on both sides with nonwoven polyester fabric; 0.030-inch nominal thickness.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Noble Company (The); Nobleseal CIS.
 - b. Approved equivalent.
- C. Polyethylene Sheet: Polyethylene faced on both sides with fleece webbing; 0.008-inch nominal thickness.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Mapei Corporation; Mapeguard® WP 200.
 - b. Schluter Systems L.P; KERDI.
 - c. Schönox; HPS North America, Inc.; Schonox AB.
 - d. Approved equivalent.
- D. Corrugated Polyethylene: Corrugated polyethylene with dovetail-shaped corrugations and with anchoring webbing on the underside; 3/16-inch nominal thickness.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; RedGard® Uncoupling Mat.
 - b. Schluter Systems L.P; DITRA.
 - c. Approved equivalent.
- E. Fabric-Reinforced, Fluid-Applied Membrane: System consisting of liquid-latex rubber or elastomeric polymer and fabric reinforcement.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Boiardi Products Corporation; a QEP company; Elastiment 344 Reinforced Waterproofing and Anti-Fracture/Crack Suppression Membrane.
 - b. Custom Building Products; Custom® 9240 Waterproofing and Anti-Fracture Membrane.
 - c. Laticrete International, Inc.; Laticrete Blue 92 Anti-Fracture Membrane.
 - d. MAPEI Corporation; Mapelastic 315.
 - e. Summitville Tiles, Inc.; S-9000.
 - f. Approved equivalent.

- F. Fluid-Applied Membrane: Liquid-latex rubber or elastomeric polymer.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; RedGard® Waterproofing and Crack Prevention Membrane.
 - b. Laticrete International, Inc.; Laticrete Fracture Ban SC.
 - c. MAPEI Corporation; Mapeleastic CI.
 - d. Approved equivalent.
- G. Latex-Portland Cement Crack-Resistant Mortar: Flexible mortar consisting of cement-based mix and latex additive.
1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Boiardi Products Corporation; a QEP company; Elastiment 323 Cement Based Waterproofing, Anti-Fracture/Crack Suppression Membrane.
 - b. Laticrete International, Inc.; Laticrete Hydro Ban® Cementitious Waterproofing Membrane.
 - c. MAPEI Corporation; Mapelastic Turbo.
 - d. Approved equivalent.

2.8 SETTING MATERIALS

- A. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.02.
1. Cleavage Membrane: Asphalt felt, ASTM D226, Type I (No. 15); or polyethylene sheeting, ASTM D4397, 4.0 mils thick.
 2. Reinforcing Wire Fabric: Galvanized, welded-wire fabric, 2 by 2 inches by 0.062-inch diameter; comply with ASTM A185 and ASTM A82, except for minimum wire size.
 3. Expanded Metal Lath: Diamond-mesh lath complying with ASTM C847.
 - a. Base Metal and Finish for Interior Applications: Uncoated or zinc-coated (galvanized) steel sheet, with uncoated steel sheet painted after fabrication into lath.
 - b. Base Metal and Finish for Exterior Applications: Zinc-coated (galvanized) steel sheet.
 - c. Configuration over Studs and Furring: Flat.
 - d. Configuration over Solid Surfaces: Self-furring.
 - e. Weight: 2.5 lb/sq. yd.
 4. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; PremiumPlus® Non-Modified Thin-Set Mortar.
 - b. Laticrete International, Inc.; Laticrete 317 Mortar.
 - c. MAPEI Corporation; Kerabond®.
 - d. Summitville Tiles, Inc.; S-777 Thin Set Mortar.

- e. Approved equivalent.
- 5. For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.1.

2.9 GROUT MATERIALS

A. Standard Cement Grout: ANSI A118.6; with antimicrobial enhanced properties.

- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; Fusion Pro® Single Component® Grout.
 - b. Laticrete International, Inc.; 1500 Sanded Grout.
 - c. MAPEI Corporation; Ultracolor® Plus FA.
 - d. Summitville Tiles, Inc.; S-687 Fungus and Mildew Resistant Unsanded Grout.
 - e. Approved equivalent.

B. High-Performance Tile Grout: ANSI A118.7.

- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; Prism® Ultimate Performance Grout.
 - b. Laticrete International, Inc.; Laticrete Permacolor® Grout.
 - c. MAPEI Corporation; Ultracolor® Plus FA.
 - d. Summitville Tiles, Inc.; S-730 ProMax Grout.
 - e. Approved equivalent.
- 2. Polymer Type: Ethylene vinyl acetate or acrylic additive, in dry, redispersible form, prepackaged with other dry ingredients.

C. Water-Cleanable Epoxy Grout: ANSI A118.3.

- 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; CEG-IG 100% Solids Industrial Grade Epoxy Grout.
 - b. Laticrete International, Inc.; Laticrete Spectralock® 2000 IG.
 - c. MAPEI Corporation; Kerapoxy® IEG CQ.
 - d. Summitville Tiles, Inc.; S-600 Setting & Grouting Epoxy.
 - e. Approved equivalent.
- 2. Provide product capable of withstanding continuous and intermittent exposure to temperatures of up to 140 and 212 deg F, respectively, and certified by manufacturer for intended use.

D. Grout for PregROUTed Tile Sheets: Same product used in factory to pregROUT tile sheets.

2.10 MISCELLANEOUS MATERIALS

- A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
- B. Vapor-Retarder Membrane: Polyethylene sheeting, ASTM D4397, 4.0 mils thick.
- C. Metal Edge Strips: Angle or L-shaped, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; **[half-hard brass] [white zinc alloy] [nickel silver] [stainless steel, ASTM A276 or ASTM A666, 300 Series]** exposed-edge material.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Blanke Corporation; www.blankecorp.com.
 - b. Dural; us.dural.com.
 - c. Schluter Systems L.P.; www.schluter.com.
 - d. Approved equivalent.
- D. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- E. Floor Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. ColorSealPro; www.colorsealpro.com.
 - b. Laticrete International, Inc.
 - c. Modern Stone Technologies; www.modernstonecare.com.
 - d. Approved equivalent.

2.11 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
 - 1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
 - 2. Verify that concrete substrates for tile floors installed with adhesives bonded mortar bed or thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.
 - a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
 - b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
 - 3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
 - 4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Director's Representative.
- B. Moisture Testing of Concrete Slabs on Grade: Perform tests so that each test area does not exceed 1000 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - 1. Relative Humidity Test: Using in-situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement or a level acceptable to the setting bed manufacturer.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with adhesives or thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- B. Where indicated, prepare substrates to receive waterproof membrane by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.
- C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 INSTALLATION OF CERAMIC TILE

- A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
 1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:
 - a. Exterior tile floors.
 - b. Tile floors in wet areas.
 - c. Tile swimming pool decks.
 - d. Tile floors in laundries.
 - e. Tile floors consisting of tiles 8 by 8 inches or larger.
 - f. Tile floors consisting of rib-backed tiles.
- B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.
- E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.
- F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
 1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
 2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.
 3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.
- G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
 1. Ceramic Mosaic Tile: 1/16 inch.
 2. Quarry Tile: 1/4 inch.
 3. Pressed Floor Tile: 1/4 inch.
 4. Glazed Wall Tile: 1/16 inch.
 5. Porcelain Tile: 1/4 inch.

- H. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.
- I. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
 - 1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
- J. Floor Sealer: Apply floor sealer to cementitious grout joints in tile floors according to floor-sealer manufacturer's written instructions. As soon as floor sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.

3.4 INSTALLATION OF TILE BACKING PANEL

- A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated.

3.5 INSTALLATION OF WATERPROOF MEMBRANE

- A. Install waterproof membrane to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
- B. Allow waterproof membrane to cure and verify by testing that it is watertight before installing tile or setting materials over it.

3.6 INSTALLATION OF CRACK ISOLATION MEMBRANE

- A. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.
- B. Allow crack isolation membrane to cure before installing tile or setting materials over it.

3.7 ADJUSTING AND CLEANING

- A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.
- B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
 - 1. Remove grout residue from tile as soon as possible.
 - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and

plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

3.8 PROTECTION

- A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
- B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.9 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

- A. Interior Floor Installations, Concrete Subfloor:
 - 1. Ceramic Tile Installation GCT-1, 2, 3 TCNA F111 and ANSI A108.1A cement mortar bed (thickset) with cleavage membrane.
 - a. Ceramic Tile Type: GCT-1, 2, 3.
 - b. Bond Coat for Cured-Bed Method: Standard dry-set mortar.
 - c. Grout: Standard sanded cement grout.
- B. Interior Wall Installations, Masonry or Concrete:
 - 1. Ceramic Tile Installation GCT-1, 2, 3 TCNA W202; thinset mortar.
 - a. Ceramic Tile Type: GCT-1, 2, 3.
 - b. Thinset Mortar: Standard dry-set mortar.
 - c. Grout: Standard sanded cement grout.

END OF SECTION 093013

SECTION 102113.14 – STAINLESS-STEEL TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Stainless-steel toilet compartments with doors, panels, pilasters, overhead bracing, and associated hardware, configured as indicated on Drawings.
- B. Related Requirements:
 - 1. Section 102800 "Toilet, Bath, and Laundry Accessories" for toilet tissue dispensers, grab bars, purse shelves, and similar accessories mounted on toilet compartments.
 - 2. Section 061053 "Miscellaneous Rough Carpentry" for concealed wall blocking required to support continuous partition brackets at framed walls.

1.3 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for toilet compartments.
- E. Shop Drawings: For toilet compartments.
 - 1. Include plans, elevations, sections, details, and attachment details.
 - 2. Show locations of reinforcements for compartment-mounted grab bars and locations of blocking for surface-mounted toilet accessories.
 - 3. Show locations of centerlines of toilet fixtures.
 - 4. Show locations of floor drains.

5. Show ceiling grid, ceiling-mounted items, overhead-headrail locations, floor-anchored pilasters, continuous wall-bracket locations, door swings, and door-hardware locations.
- F. Samples for Initial Selection: For each type of toilet compartment material indicated.
1. Include Samples of hardware and accessories involving material and color selection.
- G. Samples for Verification: For the following products, in manufacturer's standard sizes unless otherwise indicated:
1. Each type of material, color, and finish required for toilet compartments, prepared on 6-inch- square Samples of same thickness and material indicated for Work.
 2. Each type of hardware and accessory.
- H. Product Schedule: For toilet compartments, prepared by or under the supervision of supplier, detailing location and selected colors for toilet compartment material.
- I. Product Certificates: For each type of toilet compartment.
- 1.4 CLOSEOUT SUBMITTALS
- A. Maintenance Data: For toilet compartments to include in maintenance manuals.
- 1.5 MAINTENANCE MATERIAL SUBMITTALS
- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Door Hinges: Two hinge(s) with associated fasteners.
 2. Latch and Keeper: Two latch(es) and keeper(s) with associated fasteners.
 3. Door Bumper: Two door bumper(s) with associated fasteners.
 4. Door Pull: Two door pull(s) with associated fasteners.
 5. Fasteners: Ten fasteners of each size and type.
- 1.6 PROJECT CONDITIONS
- A. Field Measurements: Verify actual locations of toilet fixtures, walls, columns, ceilings, and other construction contiguous with toilet compartments by field measurements before fabrication. Notify the director's representative of any discrepancies or conflicts with the contract drawings and specifications before prior to preparation of submittals.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for toilet compartments designated as accessible.

2.2 STAINLESS-STEEL TOILET COMPARTMENTS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. All American Metal Corp.
 - 2. Flush Metal Partition, LLC.
 - 3. Knickerbocker Partition Corporation.
 - 4. Metpar Corp.
 - 5. Approved equivalent.
- B. Partition Style: Floor-anchored, overhead-braced system, with floor-anchored pilasters only at exposed ends and corners of partition runs.
- C. Panel Support: Secure wall ends of panels with full-height continuous stainless-steel brackets; connect exposed panel ends to floor-anchored pilasters and continuous overhead headrail.
- D. Configuration: Toilet compartments with operable doors, arranged as indicated on Drawings. Provide in-swinging doors at standard compartments and out-swinging doors at accessible and ambulatory-accessible compartments unless otherwise indicated.
- E. Door, Panel, and Pilaster Construction: Seamless metal facing sheets pressure laminated to core material, with continuous interlocking molding strip or lapped-and-formed edge closures; corners secured by welding or clips and exposed welds ground smooth. Exposed surfaces shall be free of pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, and other imperfections.
 - 1. Core Material: Manufacturer's standard sound-deadening honeycomb of resin-impregnated kraft paper in thickness required to provide finished thickness of 1 inch for doors and panels and 1-1/4 inches for pilasters.
 - 2. Grab-Bar Reinforcement: Provide concealed internal reinforcement for grab bars mounted on units of size and material adequate for panel to withstand applied downward load on grab bar of at least 250 lbf, when tested according to ASTM F446, without deformation of panel.
 - 3. Tapping Reinforcement: Provide concealed reinforcement for tapping (threading) at locations where machine screws are used for attaching items to units.
- F. Facing Sheets and Closures: Stainless-steel sheet of nominal thicknesses as follows:
 - 1. Pilasters, Floor-Anchored and Overhead-Braced: Manufacturer's standard thickness, but not less than 0.050 inch (18 ga).

- 2. Panels: Manufacturer's standard thickness, but not less than 0.031 inch (22 ga).
Doors: Manufacturer's standard thickness, but not less than 0.031 inch (22 ga).
- G. Pilaster Shoes: Stainless-steel sheet, not less than 0.031-inch nominal thickness and 3 inches high, finished to match partition hardware.
- H. Brackets and Fittings:
 - 1. Full-Height Continuous Type: Manufacturer's heavy-duty stainless-steel design.
- I. Stainless-Steel Finish: ASTM A480 No. 4 bright, directional polish on exposed faces. Protect exposed surfaces from damage by application of strippable temporary protective covering before shipment.

2.3 HARDWARE AND ACCESSORIES

- A. Hardware and Accessories: Manufacturer's standard stainless-steel operating hardware and accessories suitable for institutional toilet compartments.
 - 1. Hinges: Manufacturer's standard paired, self-closing type, adjustable to hold doors open approximately 30 degrees from the closed position when unlatched and allowing emergency access by lifting the door.
 - 2. Latch and Keeper: Manufacturer's standard surface-mounted stainless-steel latch and keeper designed for emergency access. Provide units that comply with accessibility requirements at compartments designated as accessible.
 - 3. Coat Hook: Manufacturer's standard stainless-steel combination coat hook and rubber-tipped bumper, sized and located to prevent in-swinging doors from striking compartment-mounted accessories.
 - 4. Door Bumper: Manufacturer's standard rubber-tipped stainless-steel bumper at out-swinging doors.
 - 5. Door Pull: Manufacturer's standard stainless-steel pull at out-swinging doors. Provide pulls on both sides of doors at compartments designated as accessible.
- B. Overhead Bracing: Manufacturer's standard continuous extruded-aluminum headrail with antigrip profile and manufacturer's standard clear-anodized finish. Provide headrail continuously across partition runs and secure to each pilaster with manufacturer's standard fasteners.
- C. Brackets and Fittings: Full-height continuous stainless-steel brackets at panel-to-wall connections and manufacturer's standard stainless-steel brackets and fittings at panel-to-pilaster connections.
- D. Anchorages and Fasteners: Manufacturer's standard corrosion-resistant anchors and stainless-steel exposed fasteners, finished to match the items secured, with theft-resistant heads. Provide sex-type bolts for through-bolt applications. Provide anchors compatible with supporting substrates and suitable for institutional use.

2.4 MATERIALS

- A. Aluminum Extrusions: ASTM B221.

- B. Stainless Steel Sheet: ASTM A240 or ASTM A666, Type 304, stretcher-leveled standard of flatness.

2.5 FABRICATION

- A. Fabrication, General: Fabricate toilet compartment components to sizes indicated. Coordinate requirements and provide cutouts for through-partition toilet accessories and solid blocking within panel where required for attachment of toilet accessories.
- B. Floor-Anchored, Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanisms, and anchors at each pilaster. Anchor pilasters to the structural floor. Provide shoes at pilasters to conceal supports, leveling mechanisms, and floor anchorages. Provide a continuous overhead headrail connecting and bracing the pilasters. Secure wall ends of panels with full-height continuous brackets.
- C. Provide cut-outs, with concealed reinforcing, as required for convactor covers, pipes, and other obstructions which interfere with pilasters or panels. Edge cut-outs and finish exposed edges to match remaining uncut edges.
- D. Fabricate panels for thru bolt fastening at fittings, brackets, stops and keepers, channels, and other locations indicated on the Drawings.
- E. Door Size and Swings: Unless otherwise indicated, provide 24-inch-wide in-swinging doors for standard toilet compartments and 36-inch-wide out-swinging doors providing a minimum 32-inch clear opening for compartments designated as accessible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for fastening, support, alignment, operating clearances, and other conditions affecting performance of the Work.
 - 1. Confirm location and adequacy of blocking and supports required for installation.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
 - 1. Maximum Clearances:
 - a. Pilasters and Panels: 1/2 inch.
 - b. Panels and Walls: 1 inch.

2. Full-Height Continuous Brackets: Secure panels to walls and pilasters with full-height continuous stainless-steel brackets. Through-bolt panel connections. Provide wall anchors compatible with the supporting construction and sized for institutional use.

- a. Locate bracket fasteners so holes for wall anchors occur in masonry or tile joints.

- B. Floor-Anchored, Overhead-Braced Units: Secure pilasters at exposed ends and corners to the structural floor; level, plumb, and tighten. Set anchors to penetrate not less than 1-3/4 inches into the structural floor unless the manufacturer's written instructions require greater embedment. Secure the continuous headrail to each pilaster with no fewer than two tamper-resistant fasteners. Secure wall ends of panels with full-height continuous brackets. Hang doors to align tops of doors with tops of panels and adjust so tops of doors are parallel with the overhead brace when doors are closed. Install the completed assembly rigid and capable of resisting lateral impact without looseness or permanent deformation.

3.3 ADJUSTING

- A. Hardware Adjustment: Adjust and lubricate door hardware according to the hardware manufacturer's written instructions for smooth, reliable operation. Set hinges on in-swinging doors to hold doors open approximately 30 degrees from the closed position when unlatched. Set hinges on out-swinging doors to return doors to the fully closed position. Adjust latches and keepers for positive engagement without binding.

END OF SECTION 102113.14