



STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242



**ADDENDUM NO. 4 TO PROJECT NO. 44682
CONSTRUCTION WORK, ELECTRICAL WORK AND HVAC WORK
HEATING SYSTEM, SECURITY WINDOWS AND REPOINTING
BUILDINGS 7 & 8
WENDE CORRECTIONAL FACILITY
3040 WENDE ROAD
ALDEN, NY**

March 6, 2015

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.

HVAC & ELECTRICAL CONTRACTS

1. No work this addendum.

CONSTRUCTION CONTRACT

2. DETAIL 6 ON SHEET A-201; Notation for window 8-15: change from window type "W1" to window type "W7".
3. DOCUMENT 092300 PLASTERING: Add the attached document (pages 092300 -1 through 092300 -7) to the Project Manual.

END OF ADDENDUM

Margaret F. Larkin
Executive Director

SECTION 092300

PLASTERING

PART 1 GENERAL

1.01 DESCRIPTION OF PLASTER SYSTEMS

- A. Type 2: Gypsum plaster consisting of scratch coat, brown coat, and high strength finish coat.

1.02 SUBMITTALS

- A. Product Data: Manufacturer's name and brand, material type, specifications, and application instructions for the following:
 - 1. Plaster Type(s) specified.
 - 2. Bonding Compound.
 - 3. Accessories, except fasteners.
- B. Quality Control Submittals:
 - 1. Sand: Name and location of source, and N.Y.S. Department of Transportation Test Number.

1.03 QUALITY ASSURANCE

- A. Regulatory Requirements: Do not use asbestos bearing materials and do not add asbestos to plaster mixes.
- B. Allowable Tolerances: Maximum deviation from true plane shall be 1/8" in 10 ft. as measured by a straight-edge placed at any location on surface.
- C. Example of Work:
 - 1. Construct a 3 ft. x 5 ft. sample panel for each type of plaster, showing color, texture, and workmanship.
 - 2. Do not proceed with plaster application until sample panel has been approved by the Director's Representative.
 - 3. Maintain sample panel on site for comparison purposes until work of this Section has been finished and approved.
- D. Ready-mixed plaster mixes are subject to the approval of the Director.
 - 1. Ready-mixed gypsum plaster mixes shall conform to the standards and requirements established by the Gypsum Association for materials and packaging.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver manufactured materials in original sealed containers, with manufacturer's label intact and legible.

- B. Keep cement, gypsum and lime dry, stored off ground, under cover.
- C. Remove wet, lumpy, and hardened materials from the site.

1.05 PROJECT CONDITIONS

- A. Environmental Requirements:
 - 1. Do not use frozen materials in plaster mixes.
 - 2. Do not apply plaster to surfaces that are frozen or contain frost.
 - 3. Do not apply plaster when ambient temperature is less than 50 degrees F.
 - 4. If necessary, heat aggregate and water prior to mixing.
 - 5. Interior Plastering: Make arrangements thru the Director's Representative to have the required temperature maintained for a minimum of 24 hours prior to application, during application, and until plaster has cured.
 - 6. Interior Plastering: Maintain required temperature for a minimum of 24 hours prior to application, during application, and until plaster has cured.
 - 7. Exterior Plastering: Provide heated shelters when necessary. Maintain required temperature for a minimum of 24 hours prior to application, during application, and until plaster has cured.
 - 8. Small on-the-job mix adjustments recommended by the plasterer for working characteristics and drying conditions may be made with the approval of the Director's Representative.
- B. Protection:
 - 1. Protect adjacent finishes with suitable, non-staining covers.
 - 2. Protect plaster from uneven and excessive evaporation and from temperature differentials of more than 20 degrees F. until it has cured.

PART 2 PRODUCTS

2.01 GYPSUM PLASTER MATERIALS

- A. Gypsum Plaster Basecoat: Neat or ready-mixed plaster unless otherwise indicated; ASTM C 28.
 - 1. Wood-fibered Plaster: Factory mixed; ASTM C 28.
 - 2. Sand Aggregate: ASTM C 35.
 - 3. Lightweight Aggregate: Perlite or vermiculite; ASTM C 35.
- B. Gypsum Plaster Finish Coat (Regular Strength): Ready-mixed white gauging finish plaster, or a mixture of gauging plaster and lime.
 - 1. Gauging Plaster: ASTM C 28, 1200 psi (min.) compressive strength.
 - 2. Lime: Special finishing hydrated type; ASTM C 206, Type S.
- C. Gypsum Plaster Finish Coat (High Strength): Mixture of high strength gauging plaster and lime.
 - 1. Gauging Plaster: ASTM C 28, 5000 psi (min.) compressive strength.
 - 2. Lime: Special finishing hydrated type; ASTM C 206, Type S.

- D. Gypsum Keene's Cement Finish Coat: Mixture of Keene's cement and lime.
 - 1. Keene's Cement: ASTM C 61, 2500 psi (min.) compressive strength.
 - 2. Lime: Special finishing hydrated type; ASTM C 206, Type S.
- E. Gypsum Sand-Float Finish Coat: Factory mixed and packaged blend of gypsum, lime, and aggregate.

2.02 LIME-PORTLAND CEMENT PLASTER AND STUCCO MATERIALS

- A. Portland Cement: ASTM C 150, Type I or IA.
 - 1. Color: Grey.
- B. Lime: One of the following:
 - 1. Special finishing hydrated type; ASTM C 206, Type S.
 - 2. Normal finishing hydrated type; ASTM C 206, Type N.
- C. Sand Aggregate: ASTM C 897.
 - 1. For finish coat, all sand shall pass No. 8 sieve unless otherwise required for special texture finishes.
- D. Finish Coat: Ready-mixed (factory-prepared) "stucco" finish coat, or a job mixture of lime, Portland cement and sand.
- E. Coloring Agent: Alkali resistant, sun fast, pure mineral oxides.

2.03 MISCELLANEOUS MATERIALS

- A. Water: Potable, clear, and free of substances harmful to plaster.
- B. Bonding Compound: Non-oxidizing, non-crystallizing type, unaffected by reapplication of moisture; ASTM C 631.

2.04 ACCESSORIES

- A. Corner Beads: Metal corner bead, with expanded metal flanges (each) not less than 2-1/2" wide.
 - 1. 26 gage galvanized steel.
 - 2. Roll formed zinc alloy.
 - 3. Standard small-nose bead.
 - 4. Bullnose bead, 3/4" radius.
- B. Casing Beads: Metal casing bead with expanded metal flange not less than 3" wide.
 - 1. 24 gage galvanized steel.
 - 2. Roll formed zinc alloy.
 - 3. Modified or semi-square edge where plaster abuts dissimilar material.
 - 4. Quarter round edge at perimeter of openings.
 - 5. Square edge at perimeter of openings.
 - 6. Modified or semi-square edge at perimeter of openings.

- C. Control Joint Screeds: Folded metal expansion and contraction screed with expanded metal flanges having a total width of not less than 4".
 - 1. 26 gage galvanized steel.
 - 2. Roll formed zinc alloy.
- D. Base Screeds: Unless otherwise indicated, 26 gage galvanized steel, 1/2" ground, expanded metal flanges having a total width of not less than 4".
- E. Expanded Metal Reinforcement: Diamond mesh expanded metal lath fabricated from copper-bearing steel sheet, not less than 2.5 lbs. per sq. yd., black asphaltum paint finish.
 - 1. Internal Corner Reinforcing: 6" wide, bent to form 3" legs.
 - 2. Strip Reinforcing: Self-furring type, 6" wide.
- F. Fasteners: Corrosion resistant fasteners of the type recommended by the accessory manufacturer.

2.05 GYPSUM PLASTER MIX COMPOSITION

- A. Ready-Mixed Basecoat and Finish Coat Materials: Use straight without addition of other materials, unless otherwise recommended by the manufacturer.
- B. Scratch Coat:
 - 1. Over Metal Lath: Wood-fibered gypsum plaster factory mix.
 - 2. Over Solid Base: 100 lbs. wood-fibered gypsum plaster to not more than 1 cu. ft. sand, vermiculite or perlite.
- C. Brown Coat: 100 lbs. neat gypsum plaster to not more than 2-1/2 cu. ft. sand, vermiculite or perlite.
- D. Gypsum-Lime Trowel Finish Coat (Regular Strength): 1 part (by weight) gauging plaster to 2 parts (by weight) lime.
 - 1. Over lightweight basecoat, add not less than 1/2 cu. ft. and not more than 1 cu. ft. of fine grit silica sand to each 100 lbs. of gauging plaster.
- E. Gypsum-Lime Trowel Finish Coat (High Strength): 1 part (by weight) high strength gauging plaster to 1 part (by weight) lime.
- F. Keene's Cement-Lime Trowel Finish Coat: 1 part (by weight) Keene's cement to 1/2 part (by weight) lime putty.
- G. Gypsum-Lime Sand Float Finish Coat: Follow the manufacturer's mix instructions.

2.06 LIME-PORTLAND CEMENT PLASTER MIX COMPOSITION

- A. Scratch and Brown Coats: By volume, mix 2 parts lime putty with 1 part Portland cement and 9 parts sand.

- B. Finish Coat: By volume, mix 1-1/4 parts lime putty with 1 part Portland cement and 3 parts sand.
 - 1. For color finish coat, add not more than 10% coloring agent by weight of cementitious materials (lime and Portland cement), unless otherwise recommended by the coloring agent manufacturer.

2.07 STUCCO MIX COMPOSITION

- A. Scratch Coat: By volume, mix 2 parts lime putty with 1 part Portland cement and 6 parts sand.
- B. Brown Coat: By volume, mix 3 parts lime putty with 1 part Portland cement and 6 parts sand.
- C. Finish Coat: Ready-mixed (factory prepared) finish coat, or mix by volume 3 parts lime putty with 1 part Portland cement and 6 parts sand.
 - 1. For job mixed color finish coat, add not more than 10% coloring agent by weight of cementitious materials (lime and Portland cement), unless otherwise recommended by the coloring agent manufacturer.

2.08 MIXING

- A. General:
 - 1. Accurately proportion materials for each batch with measuring devices of known value.
 - 2. Size batches for complete use within maximum of one hour after mixing.
 - 3. Do not retemper plaster, except Keene's cement finish coat and lime putty may be retempered.
 - 4. Do not use frozen, caked, or lumpy materials. Remove such materials from the site.
 - 5. When sand is required in mix proportions, use moist loose sand.
 - 6. Withhold 10% of mixing water until mixing is almost complete. Add remainder as needed to produce necessary consistency.
- B. Machine Mixing:
 - 1. Unless otherwise approved by the Director's Representative, mix materials in a power mixer.
 - 2. Clean mixer of set materials before loading each new batch.
 - 3. Maintain mixer in continuous operation while adding the components. After all materials are in the machine, continue mixing for at least 2 minutes.

PART 3 EXECUTION

3.01 PREPARATION

- A. Remove dust, loose particles and other foreign matter which would affect bond of plaster.

- B. Wet absorptive bases with a fine spray or fog of clean water to produce a uniform moist condition.
- C. When interior concrete surfaces are smooth, dense, and not suitable for keying of the plaster coat, prepare surfaces and apply bonding compound in conformance with the manufacturer's instructions.

3.02 INSTALLING ACCESSORIES

- A. Provide all accessories required for a complete finished installation.
 - 1. Set accessories plumb or level, and true to line. Use shims where necessary. Align joints with concealed splices and tie plates. Attach accessories to substrate at not more than 9" centers. Beads and screeds shall be in one piece where straight run does not exceed 10'.
 - 2. Install continuous corner beads at all external corners of plaster.
 - 3. Unless otherwise indicated, install continuous casing beads to terminate plaster at head and jambs of doors and windows, at each side of expansion joints, and at internal corner junctions of load bearing and non-load bearing elements.
 - 4. Unless otherwise indicated, install screeds at control joints and along top of wainscots.

3.03 PLASTER APPLICATION

- A. General:
 - 1. Provide plaster thicknesses indicated on the Drawings. On solid base, thickness will be measured from face of base material. On metal lath base, thickness will be measured from the back plane of metal lath.
 - 2. Apply plaster by hand or machine, unless otherwise indicated.
 - 3. Over metal lath, apply plaster by hand only.
 - 4. Provide 3 coat application consisting of scratch, brown, and finish coats.
 - 5. Finish coats shall form true, sharp lines at angles and against other items. Where plaster abuts flush trim, make a small V-joint in the finish coat at the trim.
 - 6. Stop off plaster application only at junctions of plaster planes, at openings, or control joints.
 - 7. Except for metal lath, apply base and finish coats to moist surfaces only.
 - 8. Ready-Mixed Materials: Follow the manufacturer's application instructions.
 - 9. In spaces where plastering is indicated on the Drawings, apply plaster on surfaces of reveals, soffits, pilasters, columns, and other related surfaces, except where other finish is shown.
 - 10. Extend scratch and brown coats in back of built-in casework unless otherwise indicated. Carry finish coat a minimum of 1" past edges of built-in casework.
 - 11. Extend all coats to the floor where vinyl and rubber base is indicated.
- B. Scratch Coat:
 - 1. Metal Lath Base: Apply with sufficient material to form keys through lath and fill all voids in lath. Cross scratch to form key for brown coat.

2. Solid Base: Apply material with sufficient pressure to fill all depressions in base surface and insure tight contact and complete coverage. Cross scratch to form key for brown coat.
 3. Allow scratch coat to set hard, but not dry, before application of brown coat. Maintain moisture by fogging with clean water as necessary.
- C. Brown Coat:
1. Straighten and float gypsum plaster to an even plane to allow for finish coat of uniform thickness. Let brown coat set hard. Make certain that brown coat is moist when applying finish coat.
 2. Straighten and float lime-Portland cement plaster and stucco to an even plane and cross scratch lightly to form key for finish coat. Moisture cure for not less than 24 hours by fogging with clean water. Maintain moist curing until finish coat is applied.
- D. Finish Coat:
1. Gypsum-Lime Trowel Finish: Work part of the material thoroughly into the basecoat. Lay additional material on well, double back, float and fill to an even plane not less than 1/16" and not more than 1/8" thick. Trowel with water to a smooth hard finish, free of cat faces, streaks, waves, and other blemishes.
 2. Keene's Cement-Lime Trowel Finish: Work part of the material thoroughly into the basecoat. Lay additional material on well, double back, float and fill to an even plane not less than 3/32" thick. Trowel with water to a smooth hard finish, free of cat faces, streaks, waves, and other blemishes.
 3. Gypsum-Lime Sand Float Finish: Follow the manufacturer's application instructions.
 4. Lime-Portland Cement Plaster Finish: Work material thoroughly into the basecoat. Float and fill to an even plane not less than 1/8" thick. Work with a rubber sponge float to a fine texture. Lightly trowel the surface to compress the grains of sand, producing a smooth, dense, uniform surface. Moisture cure for not less than 48 hours by fogging with clean water.
 5. Lime-Portland Cement Stucco Finish: Work material thoroughly into the basecoat. Float and fill to an even plane not less than 1/8" thick. Produce a uniform, fine sand float finish. Moisture cure for not less than 48 hours by fogging with clean water.

3.04 CLEAN-UP

- A. Clean adjacent surfaces that have been soiled or defaced due to performing the work of this Section. Restore marred or damaged surfaces.

END OF SECTION