PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.
B. Field application of paints and stains.
C. Scope: Finish all interior and exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
   1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
   2. Hollow Metal Doors and Frames.
   4. Portions of Stair construction in Lobby.
   5. Drywall Partitions.
   6. Concrete Block partitions.
   7. Precast Concrete - Exterior.
   8. Exposed surfaces of steel lintels and ledge angles.
   10. Gas Piping - Color; Yellow.
   11. Fire Protection Piping - Color; Red.
D. Do Not Paint or Finish the Following Items:
   1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished.
   2. Items indicated to receive other finishes.
   3. Items indicated to remain unfinished.
   4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
   5. Stainless steel, anodized aluminum, bronze, terne, and lead items.
   6. Floors, unless specifically so indicated.
   7. Ceramic and other tiles.
   8. Glass.

1.02 RELATED REQUIREMENTS

A. Section 06200-Finish Carpentry: Millwork finishing
B. Section 05500 - Metal Fabrications: Shop-primed items.
C. Division 16000 - Electrical Identification:

1.03 DEFINITIONS

A. Conform to ASTM D 16 for interpretation of terms used in this section.

1.04 SUBMITTALS

A. See Section 01300 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on all finishing products, including VOC content.
C. Samples: Submit two painted samples, illustrating selected colors and textures for each color and system selected with specified coats cascaded. Submit on tempered hardboard, 12 x 12 inch in size.
D. Manufacturer's Instructions: Indicate special surface preparation procedures.

E. Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

1.05 QUALITY ASSURANCE

A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.07 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

D. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.

E. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.

B. Paints:
   3. PPG Industries, Inc.

C. Transparent Finishes-interior:
   1. Benjamin Moore, Benwood 435, low luster oil based polyurethane varnish.

D. Stains:
   1. Benjamin Moore, Benwood Penetrating Stain #234, interior.
   2. Moore, Oil based semi transparent deck and siding stain-exterior only.
   3. United Coatings, Concrete Stain.

E. Primer Sealers:

F. Substitutions: See Section 01600 - Product Requirements.
2.02 PAINTS AND COATINGS - GENERAL

A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
   1. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
   2. Supply each coating material in quantity required to complete entire project's work from a single production run.
   3. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.

B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

C. Volatile Organic Compound (VOC) Content:
   1. Provide coatings that comply with the most stringent requirements specified in the following:
   2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

2.03 PAINT SYSTEMS - EXTERIOR

A. Paint CE-OP-2L - Masonry/Concrete, Opaque, Latex, 2 Coat:
   1. One coat of block filler.
   2. Semi-gloss: One coat of latex enamel; Aura Waterborne Exterior Paint - Low Lustre Finish (634)

B. Paint ME-OP-3A - Ferrous Metals, Unprimed, Alkyd, 2 Coat:

C. Paint ME-OP-2A - Ferrous Metals, Primed, Alkyd, 2 Coat:
   1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.
   2. Semi-gloss: Two coats of alkyd enamel; Benjamin Moore, self priming alkyd semigloss M24.

D. Paint MgE-OP-3A - Galvanized Metals, Acrylic, 2 Coat:
   1. One coat galvanize primer.
   2. Semi-gloss: Two coats of alkyd enamel; Benjamin Moore, self priming alkyd semigloss M29.

E. Paint PC-1 - Pigmented Water Repellant Stain, Precast Concrete Stain - Exterior
   1. Two Coats
   2. Canyon Tone Stain - United Coatings
   3. Color shall match the color of the EIFS system exactly.

F. Paint E-Pav - Pavement Marking Paint:
   1. White: One coat, Glidden, Latex Traffic Paint

2.04 PAINT SYSTEMS - INTERIOR

A. Paint WI-OP-2L - Wood, Opaque, Latex, 2 Coat:
   1. One coat of latex primer sealer.
   2. Semi-gloss: One coat of latex enamel; Benjamin Moore Regal Aquavelvet, #319.

B. Paint WI-TR-VS - Wood, Transparent, Varnish, Stain:
1. One coat of stain; Benjamin Moore Benwood 234 penetrating stain.
2. One coat Cabots; Benjamin Moore, Benwood polyurethane low luster 435.

C. Paint CI-OP-3L - Masonry, Opaque, Latex, 3 Coat:
1. One coat of block filler.
2. Semi-gloss: Two coats of latex enamel; Benjamin Moore, Low Luster Acrylic Enamel.

D. Paint MI-OP-3A - Ferrous Metals, Alkyd, 2 Coat:
1. One coat of alkyd primer.
2. Semi-gloss: Two coats of alkyd enamel; Benjamin Moore M24 self priming direct to metal alkyd semi gloss.

E. Paint Mgl-OP-3A - Galvanized Metals, Alkyd, 2 Coat:
1. One coat galvanize primer.
2. Semi-gloss: Two coats of acrylic enamel; Benjamin Moore M29 direct to metal acrylic semi gloss.

F. Paint GI-OP-3L - Gypsum Board/Plaster, Latex, 3 Coat:
1. One coat of latex primer sealer.
2. Eggshell: For walls, two coats of latex enamel; Benjamin Moore Regal Aquavelvet, #319.
3. Flat: For ceilings, two coats of latex paint; Benjamin Moore Regal Aquavelvet, #215.

G. Paint GI-P-1A - Gypsum Board/Plaster, Acrylic Primer, 1 Coat:
1. One coat of alkyd primer sealer; Benjamin Moore, 023 Fresh Start all purpose 100% acrylic primer.. For rooms with Wall Coverings.

2.05 ACCESSORY MATERIALS
A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; commercial quality.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION
3.01 EXAMINATION
A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
C. Test shop-applied primer for compatibility with subsequent cover materials.
D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
3. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
4. Concrete Floors and Traffic Surfaces: 8 percent.

3.02 PREPARATION
A. Clean surfaces thoroughly and correct defects prior to coating application.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
C. Remove surface appurtenances, including electrical plates, hardware, light fixture trim,
escutcheons, and fittings, prior to preparing surfaces or finishing.

D. Surfaces: Correct defects and clean surfaces which affect work of this section. Remove or repair existing coatings that exhibit surface defects.

E. Seal surfaces that might cause bleed through or staining of topcoat.

F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

G. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.

H. Asphalt, Creosote, or Bituminous Surfaces to be Painted: Remove foreign particles to permit adhesion of finishing materials. Apply latex based sealer or primer.

I. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.

J. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.

K. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.

L. Interior Wood Surfaces to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats. Prime concealed surfaces with gloss varnish reduced 25 percent with thinner.

M. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's instructions.

B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

C. Apply each coat to uniform appearance.

D. Sand wood and metal surfaces lightly between coats to achieve required finish.

E. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

F. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.

G. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.
3.05 CLEANING
   A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 SCHEDULE - SURFACES TO BE FINISHED
   A. Do Not Paint or Finish the Following Items:
      1. Items fully factory-finished unless specifically noted.
      2. Fire rating labels, equipment serial number and capacity labels.
   B. Paint the surfaces described in PART 2, Paint Systems Articles.
   C. Mechanical and Electrical: Use paint systems defined for the substrates to be finished.
      1. Paint all conduit and boxes occurring in finished areas to match background surfaces, unless otherwise indicated.
      2. Paint shop-primed items occurring in finished areas.
      3. Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.
      4. Paint dampers exposed behind louvers, grilles, and convector and baseboard cabinets to match face panels.

3.07 SCHEDULE - PAINT SYSTEMS
   A. Gypsum Board: Finish all surfaces exposed to view.
      1. Interior Ceilings and Bulkheads: GI-OP-3L, flat.
      2. Interior Walls: GI-OP-3L, egg shell.
   B. Steel Doors and Frames: Finish all surfaces exposed to view.
   C. Steel Fabrications: Finish all surfaces exposed to view.
      1. Exterior: ME-OP-3A, semi-gloss; finish all surfaces, including concealed surfaces, before installation.
   D. Shop-Primed Metal Items: Finish all surfaces exposed to view.
      1. Finish the following items:
         a. Exposed surfaces of lintels. MI-OP-3A.
         b. Exposed surfaces of steel stairs and railings. MI-OP-3A.
   E. Wall Surfaces Under Vinyl Wall Covering: GI-P-1A.
   F. Precast Concrete Wall Panels; Exterior: PC-1.
   G. Exterior Pavement Markings: E-Pav.

END OF SECTION