1.01 ADMINISTRATIVE REQUIREMENTS

B. Do not install acoustical units until after interior wet work is dry. 1.02 SUBMITTALS

A. Product Data: Provide data on suspension system components and acoustical units. B. Maintenance Materials: Furnish the following for Owner's use in maintenance of project. See Section 01 6000 - Product Requirements, for additional provisions. Extra Acoustical Units: Quantity equal to 5 percent of total installed.

1.05 QUALITY ASSURANCE A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience B. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the

products specified in this section with minimum three years experience. 1.06 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

2.01 PERFORMANCE REQUIREMENTS

A. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category D, E, or F and complying with the following:

1. Local authorities having jurisdiction. 2.02 ACOUSTICAL UNITS

A. Acoustical Units - General: ASTM E 1264, Class A. Refer to drawings for products. 2.03 SUSPENSION SYSTEM(S) A. Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking

components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required. Refer to drawings for products. 2.04 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

B. Hanger Wire: 12-gauge 0.08 inch galvanized steel wire. C. Hold-Down Clips: Manufacturer's standard clips to suit application.

D. Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application. E. Perimeter Moldings: Same metal and finish as grid.

Size: As required for installation conditions and specified Seismic Design Category. F. Touch-up Paint: Type and color to match acoustical and grid units.

3.01 EXAMINATION A. Verify existing conditions before starting work.

B. Verify that layout of hangers will not interfere with other work. 3.02 PREPARATION

 A. Install after major above-ceiling work is complete. B. Coordinate the location of hangers with other work.

3.03 INSTALLATION - SUSPENSION SYSTEM A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.

B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360. C. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size, unless otherwise indicated on drawings.

D. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions. Use longest practical lengths.

Overlap and rivet corners. E. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of

face plane of adjacent members. F. Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch clearance

between grid ends and wall. G. Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls,

maintain a 3/4 inch clearance between grid ends and wall. H. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest 3.01 EXAMINATION affected hangers and related carrying channels to span the extra distance. I. Do not support components on main runners or cross runners if weight causes total dead load

to exceed deflection capability. J. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.

K. Do not eccentrically load system or induce rotation of runners. 3.04 INSTALLATION - ACOUSTICAL UNITS A. Install acoustical units in accordance with manufacturer's instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to

C. Fit border trim neatly against abutting surfaces. D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents. E. Cutting Acoustical Units: Make field cut edges of same profile as factory edges.

Double cut and field paint exposed reveal edges. F. Where round obstructions occur, provide preformed closures to match perimeter molding. G. Install hold-down clips on panels in entrance vestibules, within 20 ft of an exterior door, and where indicated.

A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.

**SECTION 09 9113 - EXTERIOR PAINTING** 1.01 SECTION INCLUDES

A. Surface preparation.

3.05 TOLERANCES

 B. Field application of paints. C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:

 Exposed surfaces of steel lintels and ledge angles. D. Do Not Paint or Finish the Following Items: Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.

Items indicated to receive other finishes. Items indicated to remain unfinished. Fire rating labels, equipment serial number and capacity labels, and operating parts of

equipment Non-metallic roofing and flashing. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and

Marble, granite, slate, and other natural stones. Floors, unless specifically indicated Ceramic and other types of tiles.

Glass. 11. Concealed pipes, ducts, and conduits. 1.02 SUBMITTALS

A. Product Data: Provide complete list of products to be used, with the following information for 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").

MPI product number (e.g. MPI #47). Cross-reference to specified paint system(s) product is to be used in; include description of each system B. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating

range of colors available for each finishing product specified. Where sheen is specified, submit samples in only that sheen. Where sheen is not specified, discuss sheen options with Architect before preparing

samples, to eliminate sheens definitely not required. C. Maintenance Materials: Furnish the following for Owner's use in maintenance of project. See Section 01 6000 - Product Requirements, for additional provisions. 2. Extra Paint and Finish Materials: 1 gallon of each color; from the same product run,

store where directed. 3. Label each container with color in addition to the manufacturer's label. 1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years experience B. Applicator Qualifications: Company specializing in performing the type of work specified with

minimum three years experience 1.04 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.

1.05 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 paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

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

3.05 PROTECTION A. Protect finishes until completion of project. B. Touch-up damaged finishes after Substantial Completion.

2.01 MANUFACTURERS **SECTION 09 9123 - INTERIOR PAINTING** A. Provide paints and finishes from the same manufacturer to the greatest extent possible. 1.01 SECTION INCLUDES A. Surface preparation.

Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer 2. Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered 2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint. Institute Approved Product List. current edition available at www.paintinfo.com, for specified MPI categories, except as otherwise indicated.

1. Where MPI paint numbers are specified, provide products listed in Master Painters 2. Provide paints and finishes 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. 3. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience. 4. Supply each paint material in quantity required to complete entire project's work from a

single production run. 5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions. B. Volatile Organic Compound (VOC) Content:

1. Provide paints and finishes that comply with the most stringent requirements specified in the following: a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings. 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. . Flammability: Comply with applicable code for surface burning characteristics. D. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected

later by Architect from the manufacturer's full line. E. Colors: As indicated on drawings. 2.03 PAINT SYSTEMS - EXTERIOR A. Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete, concrete

masonry units, brick, fiber cement siding, primed wood, and primed metal. 1. Two top coats and one coat primer. Top Coat(s): Exterior Latex; MPI #10, 11, 15, 119, or 214. Primer: As recommended by top coat manufacturer for specific substrate.

B. Wood, Opaque, Latex, 3 Coat: 1. One coat of latex primer sealer. Semi-gloss: Two coats of latex enamel; MPI #11.

C. Exterior Gypsum Board and Exterior Plaster, Opaque, Latex, 3 Coat: One coat of latex primer sealer. Flat: Two coats of latex; MPI #10.

D. Ferrous Metals, Unprimed, Latex, 3 Coat: One coat of latex primer. Semi-gloss: Two coats of latex enamel; MPI #163.

E. Ferrous Metals, Primed, Latex, 2 Coat: Touch-up with rust-inhibitive primer recommended by top coat manufacturer. 2. Semi-gloss: Two coats of latex enamel; MPI #163. F. Galvanized Metals, Latex, 3 Coat:

One coat galvanize primer. 2. Semi-gloss: Two coats of latex enamel; MPI #163.

2.04 PRIMERS A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats. Interior/Exterior Latex Block Filler; MPI #4.

Water Based Primer for Galvanized Metal; MPI #134. Rust-Inhibitive Water Based Primer; MPI #107. 4. Latex Primer for Exterior Wood; MPI #6. 2.05 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces. B. Patching Material: Latex filler C. Fastener Head Cover Material: Latex filler

A. Do not begin application of paints and finishes until substrates have been properly prepared. B. Verify that surfaces are ready to receive work as instructed by the product manufacturer. C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application. D. Test shop-applied primer for compatibility with subsequent cover materials. E. 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. Exterior Plaster and Stucco: 12 percent. Fiber Cement Siding: 12 percent. Masonry, Concrete, and Concrete Masonry Units: 12 percent.

4. Exterior Wood: 15 percent, measured in accordance with ASTM D4442. Concrete Floors and Traffic Surfaces: 8 percent. 3.02 PREPARATION A. Clean surfaces thoroughly and correct defects prior to 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 or repair existing paints or finishes that exhibit surface defects.

D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing. 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. Concrete: Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in

manufacturer's written instructions. 2. Clean concrete according to ASTM D4258. Allow to dry. 3. Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.

H. Masonry: 1. Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry. 2. Prepare surface as recommended by top coat manufacturer.

Fiber Cement Siding: Remove dirt, dust and other foreign matter with a stiff fiber brush. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.

J. Exterior Gypsum Board: Fill minor defects with exterior filler compound. Spot prime defects after repair. K. Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali

L. Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton. M. Concrete Floors and Traffic Surfaces: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry. N. Galvanized Surfaces:

Remove surface contamination and oils and wash with solvent according to SSPC-SP Prepare surface according to SSPC-SP 2.

O. Ferrous Metal: Solvent clean according to SSPC-SP 1

2. Shop-Primed Surfaces: 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. 3. Remove rust, loose mill scale, and other foreign substances using using methods

recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated. P. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior calking

compound after prime coat has been applied. Back prime concealed surfaces before Q. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces. 3.03 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately B. Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4

C. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual". D. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

E. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied. F. Apply each coat to uniform appearance. G. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply additional coats until complete hide is achieved.

H. Sand wood and metal surfaces lightly between coats to achieve required finish. I. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat. J. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 CLEANING A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

materials, and clean-up materials as required for final completion of painted surfaces.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

equipment, unless otherwise indicated. b. In finished areas, paint shop-primed items. 5. Concrete Floors and Traffic Surfaces: 8 percent. D. Do Not Paint or Finish the Following Items: Items factory-finished unless otherwise indicated; materials and products having 3.02 PREPARATION

factory-applied primers are not considered factory finished. Items indicated to receive other finishes.

Items indicated to remain unfinished. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment. Floors, unless specifically indicated.

C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless

a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and

exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical

B. Field application of paints.

Glass.

otherwise indicated, including the following:

7. Concealed pipes, ducts, and conduits.

Mechanical and Electrical:

Prime surfaces to receive wall coverings.

1.02 SUBMITTALS A. Product Data: Provide complete list of products to be used, with the following information for 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").

MPI product number (e.g. MPI #47). 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system. B. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.

Where sheen is specified, submit samples in only that sheen. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens definitely not required C. Maintenance Materials: Furnish the following for Owner's use in maintenance of project. See Section 01 6000 - Product Requirements, for additional provisions. Extra Paint and Finish Materials: 1 gallon of each color, type, and sheen; from the

same product run, store where directed . Label each container with color, type, texture, and room locations in addition to the manufacturer's label. 1.03 QUALITY ASSURANCE

with minimum three years experience B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience 1.04 DELIVERY, STORAGE, AND HANDLING A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified,

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.

1.05 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. Provide lighting level of 80 ft candles measured mid-height at substrate surface. 2.01 MANUFACTURERS A. Provide paints and finishes from the same manufacturer to the greatest extent possible. Substitution of other products by the same manufacturer is preferred over substitution

of products by a different manufacturer. Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered. 2.02 PAINTS AND FINISHES - GENERAL A. Paints and Finishes: Ready mixed, unless intended to be a field-catalyzed paint.

Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at www.paintinfo.com, for specified MPI categories, except as otherwise indicated. 2. Provide paints and finishes 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. 3. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience 4. Supply each paint material in quantity required to complete entire project's work from a

single production run. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions. B. Volatile Organic Compound (VOC) Content: 1. Provide paints and finishes that comply with the most stringent requirements specified

in the following: a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings. 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. C. Flammability: Comply with applicable code for surface burning characteristics. D. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.

concrete, concrete masonry units, brick, wood, plaster, uncoated steel, shop primed steel,

E. Colors: As indicated on drawings. 1. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling they are mounted on/under. 2.03 PAINT SYSTEMS - INTERIOR A. Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board,

galvanized steel, and aluminum. Two top coats and one coat primer. Top Coat(s): Interior Latex; MPI #43, 44, 52, 53, 54, or 114. Top Coat Sheen, unless noted otherwise on drawings:

a. Flat: MPI gloss level 1; use this sheen for ceilings and other overhead surfaces. b. Eggshell: MPI gloss level 3; use this sheen at all locations. 4. Primer: As recommended by top coat manufacturer for specific substrate. B. Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including

Medium duty applications include doors, door frames, railings, handrails, guardrails, and balustrades. Two top coats and one coat primer. Top Coat(s): High Performance Architectural Interior Latex; MPI #139, 140, or 141. 4. Top Coat Sheen:

a. Semi-Gloss: MPI gloss level 5; use this sheen unless noted otherwise. 5. Primer: As recommended by top coat manufacturer for specific substrate. C. Dry Fall: Metals; exposed structure and overhead-mounted services or as indicated on drawings, including shop primed steel deck, structural steel, metal fabrications, galvanized ducts, galvanized conduit, and galvanized piping.

Top Coat: Latex Dry Fall; MPI #118, 155, or 226. Top Coat Sheen: a. Flat: MPI gloss level 1: use this sheen unless noted otherwise. D. Transparent Finish on Concrete Floors, unless noted otherwise. 2 coats sealer.

Shop primer by others.

One top coat .

Sealer: Water Based Sealer for Concrete Floors; MPI #99. Sealer Sheen

a. Eggshell: MPI gloss level 3; use this sheen unless noted otherwise. E. Wood, Opaque, Latex, 3 Coat: One coat of latex primer sealer

Semi-gloss: Two coats of latex enamel; MPI #54,unless noted otherwise. F. Concrete/Masonry, Opaque, Latex, 3 Coat: One coat of block filler. 2. Flat: Two coats of latex enamel: MPI #53, unless noted otherwise. G. Ferrous Metals, Unprimed, Latex, 3 Coat:

One coat of latex primer. Semi-gloss: Two coats of latex enamel; MPI #153, unless noted otherwise. H. Ferrous Metals, Primed, Latex, 2 Coat: Touch-up with latex primer. Semi-gloss: Two coats of latex enamel; MPI #153, unless noted otherwise.

I. Galvanized Metals, Latex, 3 Coat: Semi-gloss: Two coats of latex enamel; MPI #153, unless noted otherwise. J. Fabrics/Insulation Jackets, Alkyd, 3 Coat: One coat of alkyd primer sealer.

Flat: Two coats of alkyd enamel: MPI #49, unless noted otherwise. 2.04 PRIMERS A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats. 1. Interior/Exterior Latex Block Filler; MPI #4.

Interior Latex Primer Sealer; MPI #50. Interior Water Based Primer for Galvanized Metal; MPI #134. 4. Latex Primer for Interior Wood; MPI #39. 2.05 ACCESSORY MATERIALS A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding 3.01 EXAMINATION SECTION 10 4400 - FIRE PROTECTION SPECIALTIES A. Do not begin application of paints and finishes until substrates have been properly prepared.

B. Verify that surfaces are ready to receive work as instructed by the product manufacturer. C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application. D. Test shop-applied primer for compatibility with subsequent cover materials. E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply

finishes unless moisture content of surfaces are below the following maximums: Gypsum Wallboard: 12 percent.

Plaster and Stucco: 12 percent. Masonry, Concrete, and Concrete Masonry Units: 12 percent. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

A. Clean surfaces thoroughly and correct defects prior to 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 or repair existing paints or finishes that exhibit surface defects. D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture

trim, escutcheons, and fittings, prior to preparing surfaces or finishing. 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. Concrete:

Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions 2. Clean concrete according to ASTM D4258. Allow to dry. 3. Prepare surface as recommended by top coat manufacturer and according to

H. Masonry: Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to drv.

Prepare surface as recommended by top coat manufacturer. I. Concrete Floors and Traffic Surfaces: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry. J. Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair. K. Plaster: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.

L. Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton. M. Aluminum: Remove surface contamination and oils and wash with solvent according to SSPC-SP 1. N. Copper: Remove contamination by steam, high pressure water, or solvent washing.

O. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent according to SSPC-SP

Prepare surface according to SSPC-SP 2.

P. Ferrous Metal: Solvent clean according to SSPC-SP 1. 2. Shop-Primed Surfaces: 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.

3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated. Q. Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer

has dried; sand between coats. Back prime concealed surfaces before installation. R. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear S. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces. 3.03 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately. B. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat E. Apply each coat to uniform appearance in thicknesses specified by manufacturer. F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.

G. Sand wood and metal surfaces lightly between coats to achieve required finish. H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat. I. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 PROTECTION A. Protect finishes until completion of project.

1.01 SECTION INCLUDES

attachment methods.

B. Touch-up damaged finishes after Substantial Completion. SECTION 10 2800 - TOILET, BATH & LAUNDRY ACCESSORIES

A. Commercial toilet accessories. B. Under-lavatory pipe supply covers C. Diaper changing stations D. Utility room accessories.

1.02 ADMINISTRATIVE REQUIREMENTS A. Coordinate the work with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments. 1.03 SUBMITTALS A. Product Data: Submit data on accessories describing size, finish, details of function, and

2.01 MATERIALS A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation. Grind welded joints smooth.

B. Keys: Provide two keys for each accessory to Owner; master key lockable accessories. C. Stainless Steel Sheet: ASTM A666, Type 304. D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316. E. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

Fabricate units made of metal sheet of seamless sheets with flat surfaces.

F. Adhesive: Contact type, waterproof. G. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type. H. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate. 2.02 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted. B. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices. 2.03 COMMERCIAL TOILET ACCESSORIES A. As scheduled on the drawings.

Insulate exposed drainage piping, including hot, cold, and tempered water supplies under lavatories or sinks to comply with ADA Standards. Exterior Surfaces: Smooth non-absorbent, non-abrasive surfaces. Construction: 1/8 inch flexible PVC. a. Surface Burning Characteristics: Flame spread index of 25 or less and smoke

developed index of 450 or less, when tested in accordance with ASTM E84. Color: White. 2.05 DIAPER CHANGING STATIONS A. Diaper Changing Station: Wall-mounted folding diaper changing station for use in commercial toilet facilities, meeting or exceeding ASTM F2285.

Mounting: Surface. Color: As indicated on drawings. 2.06 UTILITY ROOM ACCESSORIES A. Combination Utility Shelf/Mop and Broom Holder: 0.05 inch thick stainless steel, Type 304,

2.04 UNDER-LAVATORY PIPE AND SUPPLY COVERS

A. Under-Lavatory Pipe and Supply Covers:

Material: Polyethylene

3.01 EXAMINATION

3.02 PREPARATION

3.04 PROTECTION

with 1/2 inch returned edges, 0.06 inch steel wall brackets. Drying rod: Stainless steel, 1/4 inch diameter. Hooks: Two, 0.06 inch stainless steel rag hooks at shelf front. Mop/broom holders: Three spring-loaded rubber cam holders at shelf front. 4. Length: Manufacturer's standard length for number of holders/hooks.

A. Verify existing conditions before starting work. B. Verify exact location of accessories for installation. C. For electrically-operated accessories, verify that electrical power connections are ready and in the correct locations. D. See Section 06 1000 - Rough Carpentry for installation of blocking, reinforcing plates, and concealed anchors in walls.

B. Provide templates and rough-in measurements as required. 3.03 INSTALLATION A. Install accessories in accordance with manufacturers' instructions in locations indicated on B. Install plumb and level, securely and rigidly anchored to substrate.

C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.

A. Protect installed accessories from damage due to subsequent construction operations.

A. Deliver inserts and rough-in frames to site for timely installation.

1.01 SECTION INCLUDES

 A. Fire extinguishers. B. Fire extinguisher cabinets.

2.02 FIRE EXTINGUISHER CABINETS

2.03 ACCESSORIES

C. Accessories. 1.02 SUBMITTALS A. Product Data: Provide extinguisher operational features and color and finish.

B. Shop Drawings: Indicate cabinet physical dimensions and accessories required for complete 1.03 FIELD CONDITIONS

A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

2.01 FIRE EXTINGUISHERS A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent. 1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as

B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge. 1. Class: A:B:C type. 2. Size: 5 pound minimum.

3. Finish: Baked polyester powder coat red color. Temperature range: Minus 40 degrees F to 120 degrees F

C. Dry Chemical Type Fire Extinguishers: Stainless steel tank, with pressure gauge. 1. Class: K type. Size: 1.6 gallons. 3. Finish: Polished stainless steel. 4. Temperature range: Minus 20 degrees F to 120 degrees F

A. Cabinet Construction: Non-fire rated. 1. Formed primed steel sheet; 0.036 inch thick base metal. B. Cabinet Configuration: Semi-recessed type. Size to accommodate accessories. 2. Trim: Returned to wall surface, with 2-1/2 inch projection, 1-3/4 inch wide face.

doors for 180 degree opening with two butt hinges D. Door Glazing: Acrylic plastic, clear, 1/8 inch thick, flat shape and set in resilient channel E. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of

C. Door: 0.036 inch metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge

F. Finish of Cabinet Exterior Trim and Door: Baked enamel, color as selected. G. Finish of Cabinet Interior: White colored enamel.

A. Extinguisher Brackets: Formed steel, chrome-plated. B. Graphic Identification: Fire Extinguisher. C. Lettering: "FIRE EXTINGUISHER" decal, or vinyl self-adhering, prespaced black lettering in accordance with authorities having jurisdiction (AHJ).

3.01 EXAMINATION A. Verify existing conditions before starting work B. Verify rough openings for cabinet are correctly sized and located. 3.02 INSTALLATION A. Install in accordance with manufacturer's instructions.

B. Install one (1) extinguisher per 3,000 s.f. floor area and not more than 75' travel distance from any point to an extinguisher C. Install cabinets plumb and level in wall openings, 24 inches from finished floor to inside bottom of cabinet, unless noted otherwise. D. Secure rigidly in place. E. Place extinguishers and accessories in cabinets and on wall brackets, unless noted

F. Install Dry Chemical, K type extinguishers in kitchens and in other areas involving cooking fluids, such as oils and fats and as directed by authority having jurisdiction. G. Install Multipurpose Dry Chemical type extinguisher in other areas and as directed by Final size, location and quantity shall be confirmed by the authority having jurisdiction.

A. Product Data: Indicate toxicants to be used, composition by percentage, dilution schedule, intended application rate. B. Product Data: Submit manufacturers' data on manufactured products showing compliance

A. Installer Qualifications: Company specializing in performing this type of work.

SECTION 31 3116 - TERMITE CONTROL

A. Chemical soil treatment.

1.03 QUALITY ASSURANCE

with specified requirements.

identification of treated soil.

1.02 SUBMITTALS

3.01 EXAMINATION

3.03 PROTECTION

A. Do not permit soil grading over treated work.

1. Having minimum of three (3) years experience. 2.01 CHEMICAL SOIL TREATMENT A. Toxicant Chemical: Local authority approved; synthetically color dyed to permit visual

B. Diluent: Recommended by toxicant manufacturer. C. Mixes: Mix toxicant to manufacturer's instructions.

A. Verify that soil surfaces are unfrozen, sufficiently dry to absorb toxicant, and ready to receive treatment. B. Verify final grading is complete. 3.02 APPLICATION - CHEMICAL TREATMENT

A. Comply with requirements of U.S. EPA and applicable state and local codes. B. Spray apply toxicant in accordance with manufacturer's instructions. C. Apply toxicant at following locations: Under Slabs-on-Grade. D. Under slabs, apply toxicant immediately prior to installation of vapor barrier.

penetrations such as grounding rods or posts. F. Re-treat disturbed treated soil with same toxicant as original treatment. G. If inspection or testing identifies the presence of termites, re-treat soil and re-test.

E. Apply extra treatment to structure penetration surfaces such as pipe or ducts, and soil

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SCHEDULE I 4-24-2025 SCHEDULE II -

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Project No.:

Drawn By:

24.0808

Issue

4-24-2025 Bid & Permit