

FRESNO UNIFIED SCHOOL DISTRICT
PAINTING

PART 1 - GENERAL

1.01 REFERENCE:

Requirements in Addenda, Alternates, Conditions, and Division 1 collectively apply to this work.

1.02 DESCRIPTION:

A. Principal Work Items Are:

1. Complete application of paint to interior and exterior surfaces.
 - a. Unfinished materials.
 - b. Back-priming.
 - c. Metals, including certain hidden surfaces.
 - d. Woods and fabrications of wood.
 - e. Sheet metal.
 - f. Plaster, except where integrally colored.
 9. Gypsum wallboard.
 - h. Doors.
 - l. Exposed piping, conduits, ducts, panels, mechanical and electrical equipment and items.
 - j. Visible roof-top equipment.
 - k. Miscellaneous items.
 - l. Concrete block.
 - m. Painted stripes at stairs, to conform to Handicap Requirements.
2. Application of finish coats to shop-primed metal surfaces:
 - a. Door louvers.
 - b. Pressed metal frames.
 - c. Hollow metal doors.
 - d. Coiling grilles.
3. Structural steel.

B. Some Surfaces Not to Be Painted:

1. In general, items with District approved integral finishes, approved plated finishes, approved complete factory finishes, except where otherwise indicated.
2. Finish hardware, except where primed for paint.
3. Integrally colored plaster.
4. Acoustical materials: Acoustic tile, acoustic panels, and exposed suspension grids.

5. Metal items:
 - a. Approved plated or factory finished items.
 - b. Anodized and color anodized aluminum.
 - c. Stainless steel.
 - d. Toilet partitions.
 - e. Factory finished steel or aluminum frame sliding glass doors.
 - f. Passenger lift doors, frames and cars.

C. Related Work Specified Elsewhere:

1. Materials and items which receive paint: Respective Sections.
2. Factory finished items: Respective Sections.
3. Paint Materials List: Section 09901.
4. Paint & Coatings Surface Prep Guidelines: 09904
5. General Painting Requirements: 09905
6. Electrical fixture trim and plates removal and replacement in coordination with painting work: Division 16.

D. Definitions:

1. DFT: Abbreviation for dry film thickness.
2. Concealed Ungalvanized Steel: Defined in Paragraph 3.06B.
3. Paint: A collective general reference to include all materials of every component for finishing systems of every type, and preparation of surfaces for and application of said materials.
4. Rough-surface wood: Rough-sawn, re-sawn, or sandblasted woods.
5. Visible roof-top equipment: Mechanical and electrical equipment, piping, ducts, conduits, panels and other materials exposed on building roof tops which can be seen by a person standing on the earth's surface at any point within 1,000' of any building.

1.03 SUBSTITUTIONS:

Only written approval of the will permit substitutions for materials specified. Refer to Section 00700, Article 30, Substitutions, for procedure.

1.04 QUALITY ASSURANCE:

- A. Reference Standards: Steel Structures Painting Council-Surface Preparation Specifications (SSPC-SP).
- B. Job Mock-Up, Supergraphic Designs: Layout designs full-size on indicated walls, revise as required by District. Obtain District's approval prior to doing any finished work.

- C. Paint Contractor must have completed 2 projects in last 3 years of similar size and scope in order to qualify for award. Contractor shall submit reference information for verification at time of bid or within 24 hours of request.

1.05 SUBMITTALS:

A Samples

1. Number required: Three each, submitted by Manufacturers of the material being used.
2. Paints and enamels:

Typical: Each type, in each selected color; 8.5" x 11" size on stiff smooth material typical; on sandpaper for rough surfaces.

- a. Stipple enamel: Each selected color District approved, roller texture on 12" x 24" piece of drywall.
3. Stains, varnishes, lacquers: Each finish type on each specie and texture of wood; 8.5" x 11" size for plywood, 16" length for casing or boards, show clearly each step of finishing process.
4. Make samples by same methods to be used to produce actual work. Samples will be examined for color, texture, and workmanship.
5. Re-make and re-submit samples when required for approval.

B. Product Data: Complete list of all paint materials.

C. Submittal requirements related to hazardous materials as specified in 09904.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING:

A. Deliver in sealed containers. Manufacturer, brand name, product, and use instructions clearly identified thereon.

B. Store in assigned spaces.

C. Handle to prevent damage during storage and use.

1.07 JOB CONDITIONS:

A. Environmental Requirements:

1. Follow manufacturer's printed recommendations for product when they are more stringent than limits stated herein.
2. Do not apply materials when RH is above 90%.
3. As necessary to provide air movement, aid drying, disperse noxious fumes.
4. Do not apply paint to wet-applied construction until such work is dry, and acceptable to District and paint manufacturer.
5. Do not apply exterior paint in rainy, damp, misty, smoggy, or excessively windy weather.
6. Do not apply paint in areas where dust is being generated.

- B. Protection:
 - 1. Cover or otherwise protect finished work of other trades, work not to be painted concurrently, landscaping, and adjacent property from damage.
 - 2. When not in use, store paints in designated areas. Keep containers closed. At end of day's work, remove empty containers, paint-soaked rags, and debris. Vent fumes. Take precautions to prevent fire.
- C. Sequencing, Scheduling:
 - 1. Coordinate removal and replacement of hardware, electrical fixtures and trim, and related work of other Sections.
 - 2. Stain, prime, back paint, and pre-finish items before installation as required.
- D. Cleaning and Disposal:
 - 1. Do not use Project plumbing fixtures or piping systems for:
 - a. Cleaning painting equipment and utensils.
 - b. Disposal of waste from cleaning or disposal of paints.

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Acceptable Manufacturers and Products:
 - 1. Materials shall be those listed in Paint Materials List Specifications, Section 09901.
 - 2. Each material type to be same manufacturer throughout. All materials in a coating system to be by a single manufacturer.
 - 3. Brand Names: Shall constitute a standard of quality.
 - 4. Other Manufacturers: Refer to General Conditions for Substitution Requirements.
- B. Colors:
 - 1. As selected by, using ICI/Sinclair color and finish systems as a standard.
 - 2. Concrete block: As selected by District using Triarch Industries, Incorporated and Pittsburgh Paints color and finish systems as a standard.
 - 3. Colors to be factory mixed, and to match approved samples.
 - 4. Tint undercoats sufficiently different so that they are readily distinguishable in any light from each other and the finish coat.

2.02 - MIXING:

- A Follow manufacturer's printed recommendations.
- B. Mix all paints thoroughly prior to application.
- C. Inspection during mixing process shall take place at District request.
- D. Except where thinning is specifically recommended by manufacturer, do not thin products.

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Examine surfaces for suitability to receive paint. Prior to application of any paint, surfaces to be cleaned free of dust, corrosion, and other foreign matter.
- B. Sand, scrape, fill and repair surfaces flush with suitable materials. Fill voids between adjoining surfaces flush with suitable fillers.
- C. Wood:
 - 1. Clean solid surfaces.
 - 2. Except for rough-surface finishes, sand to a smooth even finish and dust clean.
 - 3. Seal knots, pitch spots, and resinous sapwood with shellac or knot sealer before priming.
 - 4. Puttying:
 - a. Do after first priming coat is dry.
 - b. For transparent or stained work, color putty to match finish.
 - c. Fill flush all nail holes, open joints, cracks and other defects.
- D. Drywall:
 - 1. Fill any cracks or defects with drywall joint compound or spackle. Sand any roughspots smooth. Do not raise nap on paper covering.
 - 2. Portland Cement Plaster:
 - a. Where surfaces alkali is present, wash surface clean with zinc-sulphate in water solution. Fill cracks and defects with cement grout, match surface texture. Small defects may be filled with exterior spackle.
 - 3. Concrete:
 - a. Brush and wash with clean water to remove laitance, efflorescence, from oil bond breaker, and other foreign matter. Fill cracks and defects with cement grout; match surface texture.
 - 4. Galvanized Metal:
 - a. Cleaning: Solvent clean per SSPC-SP, No. 1, Solvent Cleaning.
 - b. Vinyl wash: Apply Dunn-Edwards Galva-Etch, No. GE-123. Follow manufacturer's directions.
 - c. Application: Mop or brush-apply in a thin even coat.
 - d. Remove excess solution from surface with rags, squeegee, or sponge. When using full strength, rinse surface with water.
 - 5. Thinning: Use water, do not reduce solution beyond three parts water to one part Galva-Etch.
 - 6. Drying: One-half hour minimum and four hours maximum before priming.
 - 7. Ungalvanized Shop Primed Structural Steel:

8. Cleaning method: Clean member free of corrosion, loose paint, and foreign matter by either SSPC-SP, No. 2, Hand Cleaning or SSPC-SP, No. 3, PowerBrush Cleaning at the Project site after steel is erected. Touch-up paint, with compatible primer, all abraded, damaged, or uncoated areas.
9. Ungalvanized Shop Primed Metals Other Than Paragraph G Above:
 - a. Clean free of all loose paint and foreign matter. Touch-up paint, with compatible primer, all abraded, damaged, or uncoated areas.
10. Factory Finished Equipment and Items:
 - a. Where indicated to receive job-applied finish coats, sand or etch factory finish as required for proper paint adherence.
11. Concrete Block:
 - a. Substrate shall be cleaned of dust, oils, and other substances that might reduce adhesion of the finish material.

3.02 APPLICATION:

- A. Workmanship:
 1. Execute all work with skilled craftsmen.
 2. Evenly apply all coats with suitable equipment, well flowed on, free of laps, runs, skips, dead spots, and other imperfections. Last coat to present a uniform surface, color and texture.
 3. Stipple texture to be as approved by District.
- B. Manufacturer's Printed Recommendations:
 1. Follow where more stringent than limits specified herein.
- C. Equipment:
 1. Brushes, rollers, and spraying equipment as required and suitable for material being applied; keep clean and in proper operating condition.
- D. General:
 1. Paint and color areas per District's color schedules.
 2. Mask and cut-in as required to accomplish the various color combinations. Make edges of paint clean and sharp (no overlaps) where they adjoin other colors or materials.
 3. Paint entire surface parts and items including reveals, returns, rebates, soffits, projections, openings, and ornamental features.
 4. Do not apply initial coating until moisture content of surface is within paint manufacturer's recommended limits.
 5. Do not apply next coat until previous coats are properly cured and prepared to receive them.
- E. Examination of Work:
 1. Refer to Paragraph 3.03, Field Quality Control, for required examination of work.
 2. Written notification must be provided to District when work is ready for examination.
 3. Do not proceed with next operation until required examination has been made.
- F. Number of Coats:
 1. Specified number is the minimum number to be applied.
 2. Contractor shall, at his expense, apply additional coats as directed by District if:
 - a. Contractor does not produce full even coverage and/or required dry film thickness with specified number of coats.
 - b. Contractor applies a coat before Inspector has examined previous coat.
- G. Dry Film Thickness:
 1. DFT thickness stated in Paragraph 3.06, Schedule of Paint Finishes, is the minimum thickness to be applied and must be increased to manufacturer recommended thickness when such exceeds the thickness stated herein.

- H. Drying Time:
 - 1. Minimum interval between coats shall be the most stringent of the following conditions:
 - a. Until coat is dry.
 - b. Manufacturer's printed recommendations.
 - c. Three days for exterior work, two days for interior work, except where other time requirements are specifically stated in manufacturer's printed recommendations.
- I. Preparation of Work Between Coats:
 - 1. General: Repair defects, sand, dust, wipe clean.
 - 2. Wood, enameled: When dry, lightly sand smooth.
 - 3. Wood, varnished or lacquered: When dry, steel wool smooth.
 - 4. Plaster and concrete: Neutralize suction spots or hot spots then touch up so coat surface is uniform.
- J. Back-Priming:
 - 1. Immediately upon delivery to Project site, backprime all surfaces which will be concealed after installation for following items: exterior and interior finish lumber and millwork, door frames, trim, plywood wall lining and paneling.
 - 2. Painted or Enameled Work: One coat clear sealer.
 - 3. Work with Stained Finish: One coat linseed oil.
 - 4. Keep back-priming off exposed faces.
- K. Priming:
 - 1. General: Prime work as soon as possible after surfaces are prepared.
 - 2. Ungalvanized Steel: Prime immediately after cleaning on the same day.
 - 3. Galvanized Sheet Metal: Prime immediately after erection.
 - 4. Exterior and Interior Woodwork: Prime immediately after erection.
 - 5. At Glazing: Paint all glass beads, stops and rebates, except for aluminum.
- L. Application Methods:
 - 1. Apply by brush or roller, except as listed below:
 - a. Enamel: to doors: Roller only.
 - b. Enamel: Roller typically.
 - c. Stipple enamel: Roller only, with District approved texture.
 - d. Varnish or lacquer: Spray.
 - e. Exterior wood stains: Apply by brush or roller only. Work well into surface, especially on rough surface woods.
 - f. Doors:
 - 1. Finish faces, edges, top, and bottom. On wood doors, apply first coat to all parts at the same time. At exterior doors, paint interior face with same material used on the exterior face.
 - g. Colors:
 - 1. Make color changes at inside corners typically. Paint to a clean straight line.

3.03 FIELD QUALITY CONTROL:

- A. Examination of Work (By District Appointed Inspector):
 - 1. Notification: Contractor to provide 24-hr written notice to District Project Manager upon readiness for inspection of work steps.
 - 2. Work shall not proceed to subsequent step without written authorization from District personnel.
 - 3. Refer to Part V of Specification 09905 for specific inspection requirements.

3.04 ADJUSTMENT AND CLEANING:

A. Cleaning:

1. Clean surfaces as work progresses.
2. Remove all paint spillage and droppings and stains as soon as possible.
3. Do not use tools or cleaners, which will mar finish of item being cleaned.
4. Leave work and paint storage area clean and free of droppings, stains, dirt or defacements resulting from this work.

B. Correction of Defective Work:

1. Repair abraded, damaged or incomplete paint surfaces by methods acceptable to District. Spot repairs to be well-blended into adjacent work. For large repairs, re-coat entire plane or building element in which damaged area occurs.
2. Defaced surfaces of work not to be painted shall be cleaned and their original finish restored.

3.05 SCHEDULE OF PAINT FINISHES:

A. Metal Work, Exterior and Interior:

1. Galvanized Metal Exterior and Interior:
 - a. Coat 1: Zinc Dust Primer or Oil-Cementitious Primer. If Oil Cementitious Primer is used, it shall be re-coated within 48 hours in accordance with the manufacturer's recommendations.
 - b. Coat 2: Sash and trim.
 - c. Coat 3: Sash and trim.
 - d. DFT: Five mils.
2. Ungalvanized Shop-Primed Structural Steel, Exposed On Building Exterior: Apply prime coat immediately after steel is cleaned.
 - a. Touch-Up: Spot prime any abraded, damaged, rusted, or uncoated areas with rust inhibitive primer for ferrous metals.
 - b. Coat 1: Rust Inhibitive Primer For Ferrous Metals.
 - c. DFT For Coat 1: 1.3 mils.
 - d. Coat 2: Sash and trim.
 - e. Coat 3: Sash and trim.
 - f. DFT For Coats 2 + 3: 3 mils.
3. Ungalvanized Shop Primed Structural Steel, Exposed On Building Interior:
 - a. Touch-up: Spot prime any abraded, damaged, rusted, or uncoated areas with rust inhibitive primer for ferrous metals.
 - b. Coat 1: Sash and trim.
 - c. Coat 2: Sash and trim.
 - d. DFT: 4.5 mils.

4. Ungalvanized Shop Primed Structural Steel, Concealed: Touch-up by spot priming any abraded, damaged, rusted, or uncoated areas with rust inhibitive primer for ferrous metals.
 5. Shop Primed Metals and Door Louvers, Exterior and Interior, Except For Subparagraphs 2, 3, and 4 above:
 - a. Coat 1: Sash and trim.
 - b. Coat 2: Sash and trim.
 - c. DFT: Three mils.
 6. Factory Finished Equipment and Items, Exterior and Interior:
 - a. Coat 1: Sash and trim.
 - b. DFT: 1.5 mils.
 7. Visible Roof-Top Equipment: Refer to definition in Paragraph 1.02, D.
 - a. Paint the various materials, items, and equipment per requirements of Paragraph 3.06, B, Metal Work, Exterior and Interior.
- B. Exterior Work, Other Than Metals:
1. Wood Typical:
 - a. Coat 1: Exterior wood primer.
 - b. Coat 2: Sash and trim.
 - c. Coat 3: Sash and trim.
 - d. DFT: Five mils.
 2. Surface Trim, Wood, And Plywood:
 - a. Coat 1: Exterior wood stain, opaque.
 - b. Coat 2: Exterior wood stain, opaque.
 - c. Application Rate: 150 SF per gallon per coat.
 3. Surface Plywood Siding:
 - a. Coat 1: Exterior wood stain, opaque. Prime all surfaces of all pieces completely before installation (faces, edges, ends).
 - b. After installation, inspect members; touch-up any damage, cuts, and nail holes.
 - c. Application Rate: 150 SF per gallon per coat.
 4. Surface Boards Over Plywood at Building Facias and Certain Building.
 5. Walls, Both Stained Same Color:
 - a. Finish: Exterior wood stain, opaque.
 - b. Coat 1, Plywood: Apply stain after plywood is installed, but before any boards or trim are installed over plywood.
 - c. 2 x 3 Boards:
 1. Boards to be cut to size by Carpentry Section prior to any staining.
 2. Coat 1: Prime stain all surfaces of all pieces completely before installation (faces, backs, edges, ends).
 3. Touch-Up: After installation over plywood by Carpentry Section, inspect members, touch-up stain any damage, cuts and nail holes.
 - d. Coat 2, All Parts: Apply stain to all exposed wood and plywood surfaces.
 - e. Application Rate: 150 SF per gallon per coat.

6. Exposed Structural Plywood Sheathing At Roof Screens Smooth Surface:
 - a. Coat 1: Exterior wood stain, opaque.
 - b. Coat 2: Exterior wood stain, opaque.
 - c. Application Rate: 250 SF per gallon per coat.
 7. Soffit Construction Behind Screen Vents:
 - a. Coat 1: Exterior wood stain, opaque; black color.
 - b. Application Rate: 250 SF per gallon per coat.
 - c. Apply to all construction, which will be visible through installed vents.
Apply prior to installation of screen.
 8. Plaster Smooth Troweled Finish:
 - a. Coat 1: Exterior masonry finish.
 - b. Coat 2: Exterior masonry finish.
 - c. DFT: 2.3 mils.
 9. Concrete Exposed Foundation Walls and Curbs, Recessed Letters at Sandblasted Concrete Name and Office Signs:
 - a. Coat 1: Concrete sealer.
 - b. Coat 2: Exterior masonry finish.
 - c. Coat 3: Exterior masonry finish.
 - d. DFT: 3.6 mils.
 10. Plastic Condensate Piping and Other Plastic Piping Exposed On Rooftops:
 - a. Coat 1: Chlorinated rubber base paint.
 - b. Application Rate: One coat to cover.
 11. Building Dado (8' Height):
 - a. Coat 1: Light tack coat.
 - b. Coat 2: Semi-gloss enamel.
- D. Interior Work, other Than Metals:
1. Softwood Typical:
 - a. Coat 1: Enamel undercoat.
 - b. Coat 2: Sash and trim.
 - c. Coat 3: Sash and trim.
 - d. DFT: 4 mils.
 2. Hardwood Doors and Handrails, Softwood Casework Where Not Factory Finished:
 - a. Sealer: At Contractor's option and expense, Clear Sealer may be used as an aid in obtaining a uniform stain color.
 - b. Coat 1: Oil Stain, or wiped white glaze, as selected by District.
 - c. Coat 2: Gloss varnish. Sand smooth.
 - d. Coat 3: Gloss varnish. Steel wool smooth.
 - e. Coat 4: Satin varnish.
 - f. DFT: 3.5 mils.
 - g. Lacquer Option: With specific approval of District, lacquer may be used in lieu of varnish.

3. Rough Surface Wood and Trim:
 - a. Coat 1: Exterior wood stain, semi-transparent.
 - b. Coat 2: Exterior wood stain, semi-transparent.
 - c. Application Rate: 150 SF per gallon per coat.
4. Rough Surface Board On Plywood Wall Treatment:
 - a. Coat 1: Exterior wood stain, semi-transparent. Prime all pieces completely before installation (faces, edges, and ends). After installation, inspect members, touch up any damage, cuts, and nail holes.
 - b. Coat 2: Exterior wood stain, semi-transparent. Apply to all exposed surfaces.
 - c. Application Rate: 150 SF per gallon per coat.
5. Plywood Wall Lining At Storage Areas:
 - a. Coat 1: Exterior wood stain, semi-transparent.
 - b. Coat 2: Exterior wood stain, semi-transparent.
 - c. Application Rate: 250 SF per gallon per coat.
6. Hardboard Panels At Integrated Ceiling:
 - a. Coat 1: Clear methacrylic lacquer.
 - b. Apply before items are installed.
7. Concrete; Exposed Foundation Wall and Curbs:
 - a. Coat 1: Concrete sealer.
 - b. Coat 2: Exterior masonry finish.
 - c. Coat 3: Exterior masonry finish.
 - d. DFT: 3.6 mils.
8. Drywall Walls; Typical:
 - a. Coat 1: Latex sealer.
 - b. Coat 2: Enamel undercoater.
 - c. Coat 3: Stipple enamel, semi-gloss. Apply with a District approved heavy-texture stipple roller.
 - d. DFT: 5 mils.
9. Drywall Ceilings, Soffits, and Beams:
 - a. Coat 1: Latex sealer.
 - b. Coat 2: Flat wall latex.
 - c. Coat 3: Flat wall latex.
 - d. DFT: 4 mils.
10. Drywall Walls and Ceilings at Janitor's Rooms, Toilets, Storage Rooms, And Kitchen:
 - a. Coat 1: Latex sealer.
 - b. Coat 2: Enamel undercoat.
 - c. Coat 3: Stipple enamel, semi-gloss. Apply with a District approved heavy-texture stipple roller.
 - d. OFT: Five mils.
11. Painted Strips at Interior Concrete Stairs, Conform to State Handicap Requirements:
 - a. Coat 1: Traffic paint.
 - b. Coat 2: Traffic paint.
 - c. Application Rate: Two coats, at 400 SF per gallon per coat.
 - d. Stripes: 2" wide, located 1" maximum from and parallel to nosing.
 - e. Required Locations: Bottom tread and upper approach of each flight of stairs and landings.

12. Concrete Block:
 - a. SPRAYTEK II over undercoat.
 1. Coat 1: Primer, undercoat with hopper or other equipment qualified for heavy bodied material to a minimum thickness of 20 mils.
 2. Finish Coat: SPRAYTEK, minimum thickness of 10 mils.
 3. Texture: Smooth sand; OS-IV Texture.
 - b. Water-base Acrylic-epoxy
 1. Pittsburgh Paints; Pitt-glaze, (tinted).
 2. Wet film; 20 to 40 mils thickness as required to fill the surface. Films in excess of 25 mils wet should be applied in two coats to facilitate their cure.

E. Mechanical and Electrical Work:

1. General: Unless otherwise specified herein, paint all exposed mechanical, plumbing, fire sprinklers, and electrical equipment, apparatus, piping, conduit, fittings incidental thereto, and coverings applied thereto as specified above in Paragraph 3.06, B, Metal Work, Exterior and Interior.
 - a. Finished rooms and spaces: Paint equipment, panel boards, and all other items to match room finish.
 - b. Unfinished rooms and spaces: Same requirements as "Finished Rooms and Spaces," except that equipment, panel boards, and other items with complete factory-applied paint finishes need not be painted.
 - c. Do not paint out nameplates, labels, or stamped designations of sizes, qualities, standards and manufacture on pieces of equipment.
 - d. Do not paint canvas connections between fans and ducts.
 - e. Do not paint brass fittings, rough or polished, plated or non-plated.
 - f. Items mounted in floors: Paint cover plates to sumps and pipe trenches, and manhole covers and rings mounted in floors, and similar items two coats of cement color floor paint.
 - g. Exposed exterior items: Paint per Paragraph 3.06, B.
 - h. Painting flat black: Paint two coats flat black color as far back as visible the inside surfaces of ducts, dampers, louvers, vents, and similar items.
 - i. Plumbing fixtures: Paint unfinished exposed surfaces to match adjoining walls.
 - j. Main sprinkler riser: Paint bright red color.
 - k. Sprinkler head canopies: Paint to match color of adjacent surfaces, unless canopies are chrome-finished or stainless steel.
 - l. Paint work not specifically mentioned shall be as specified for work of similar character.

END OF SECTION

FRESNO UNIFIED SCHOOL DISTRICT
PAINT MATERIALS LIST

PART 1 - GENERAL

1.01 REFERENCE:

- A. General Conditions & Requirements
- B. Specification Sections 09900, 09904 & 09905

PART 2 - PRODUCTS

2.01 MATERIALS GENERAL:

- A. Standard Materials and Finishes: Use pure unadulterated factory-mixed material delivered to site in unopened containers bearing manufacturer's name and brand; colors, as selected by District, shall be factory-mixed.
 - 1. Manufacturers shall verify that their products conform to latest California Air Resources Board regulations.

2.02 ACCEPTABLE MANUFACTURERS AND PRODUCTS:

A. General:

All materials used in the work shall be a proprietary brand of one of the manufacturers listed below for each type. Should a listed manufacturer's product no longer be available, an equivalent product may be submitted for District review in order to ensure conformance with current Industry standards for both quality and applicable regulations.

B. Metal Primers:

MANUFACTURER

PRODUCT

1. Zinc Dust:

Sherwin-Williams
ICI/Sinclair Paint Co.

B69A8 Zinc-Clad IV
Zinc Dust - Zinc Oxide Primer #25

2. Oil-Cementitious:

Sherwin-Williams
Dunn Edwards
TNEMEC

B66-310 ProCryl Universal Primer
Galv-Alum White Anti-Corrosion Primer #43-7
Series 22 Galv-Gard Oil
Cementitious Exterior Coating
Galvanized Metal Primer#13201

Ameritone Mirrolac

3. Rust-Inhibitive Primer for Ferrous Metals:

Dunn Edwards
Sherwin-Williams
ICI/Sinclair

Block-Rust Red Oxide Primer #43-4
DTM Primer/Finish B66W1
15 Red Oxide Primer

C. Exterior Wood Primers:

Dunn Edwards
Sherwin-Williams
ICI/Sinclair

Apex Extr. Primer # 42-9
ProBlock Latex Primer B51W20
Exterior Wood Primer #289

- D. Exterior Surfaces - Acrylic Enamel:
- | | |
|------------------|----------------------------|
| Dunn Edwards | Permasheen Semi Gloss W901 |
| Sherwin-Williams | A-100 Gloss A8 Series |
| ICI/Sinclair | 2406 Dulux |
- E. Semi-Transparent Exterior Wood Stain; For Interior Wood; Must Be An Oil-Base Stain:
- | | |
|------------------|--|
| Dunn Edwards | Rancho-Hues, #17 Series Semi-Transparent |
| Sherwin-Williams | WoodScapes Ext. Semi-Transparent Stain A15T5 |
| ICI/Sinclair | Stainteke, Semi-Transparent #3900 Series |
- F. Opaque Exterior Wood Stains; For Exterior Wood; Must Be An Oil-Base Stain:
- | | |
|------------------|---|
| Olympic | Exterior, Solid Color Stain |
| ICI/Sinclair | Stainteke, Heavy-Bodied Opaque #4700 Series |
| Sherwin-Williams | WoodScapes Ext. Solid Color Stain A15W50 Series |
- G. Exterior Masonry Finish:
- | | |
|------------------|--|
| Dunn Edwards | Evershield #W 701-1; 100% acrylic |
| Sherwin-Williams | A-100 Flat A6 Series |
| ICI/Sinclair | Stuc-O-Life #1300, 100% Acrylic Dulux 2200 |
- H. Sealer; Latex:
- | | |
|------------------|---|
| Dunn Edwards | Vinylastic Pigmented Wall Sealer W-101 |
| Sherwin-Williams | ProGreen 200 Latex Primer B28W600 |
| ICI/Sinclair | P.V.A. Sealer #1770 (1030 U/H PVA Primer) |
- I. Sealer; Concrete:
- | | |
|------------------|---------------------------------|
| Dunn Edwards | Eff-Stop Concrete Sealer W-709. |
| Sherwin-Williams | Loxon Masonry Primer A24W300 |
| ICI/Sinclair | 18 EPO Primer 3210 Gripper |
- J. Interior Finishes:
- Enamel Undercoater. Interior:

Dunn Edwards	Enamel Undercoater #42-31 or E22-1 Super-U 365
Sherwin-Williams	Water Reducible Alkyd Primer B49WJ1100
ICI/Sinclair	Sinco Prime Undercoater #975
 - Enamel. Semi-Gloss Stipple:

Sherwin-Williams	ProGreen 200 Semi-Gloss B31W600 Series
Dunn Edwards	Semi-Gloss Stipple Enamel #8-14
ICI/Sinclair	Semi-Gloss Stipple #782

 - Color Selection: Dunn Edwards, Navajo White 60.
 - Lacquer Sanding Sealer: High Solids:

Dunn Edwards	Lacquer Sanding Sealer #LQ-101
Sherwin-Williams	Lacquer Sanding Sealer B44MJ91
ICI/Sinclair	Lacquer Sanding Sealer, Clear #2610
 - Interior Lacquer System:

Dunn Edwards	Lacquer Clear (gloss #LQ-103) (Semi-gloss #LQ-104) (Flat #LQ-105)
--------------	--

- | | |
|--|---|
| Sherwin-Williams | ProMar High Build Lacquer (Gloss B44CJ89)(Semi-Gloss B44FJ86)(Satin B44KJ84) |
| ICI/Sinclair | Lacquer #2600 Series "Lac-O-Rite" |
| 5. Interior Varnish System: | |
| Dunn Edwards | Pale Synthetic Varnish: Gloss #V-197; Satin #V-199 |
| Sherwin-Williams | WoodClassics Waterborne Polyurethane Varnish A68-90 Series |
| ICI/Sinclair | Woodpride Varnish: #400 Gloss; #410 Semi-gloss; #407 Velvet |
| 6. Clear Sealer: | |
| Dunn Edwards | Reinseal Clear Sealer #V-195 |
| Sherwin-Williams | WoodClassics Waterborne Polyurethane Varnish A68-90 Series |
| ICI/Sinclair | Primer Sealer #3352 |
| K. Traffic Paint: | |
| Dunn Edwards | "Vin-L-Stripe" #W-801, vinyl-epoxy. |
| J.E. Bauer | Latex base; formulas #1030A9 white, #1056A9 Yellow, #1865A9 blue, #1118A9 Green, and #1854A9 Red. |
| ICI/Sinclair | #160 Vinyl Traffic Line Paint, Water-base. |
| Sherwin-Williams | Set Fast Traffic Marking Paint |
| 1. Color Selection: | |
| a. Text: White. | |
| b. Parking Dividers: White. | |
| c. No Parking Zones: Yellow. | |
| d. No Parking Curb: Red. | |
| e. Handicap Zones: Blue. | |
| f. Directional Arrows: White. | |
| g. Driving Lane Dividers: White. | |
| h. Playground Striping: Beige or Green. | |
| 2. Blue paint for Handicap shall match No. 15090 in Federal Standard 595A. | |

END OF SECTION

FRESNO UNIFIED SCHOOL DISTRICT
PAINT & COATING SURFACE
PREP GUIDELINES / LEAD PREP
CERTIFICATION

PART 1 - GENERAL

- 1.01 LEAD ANALYSIS IS ATTACHED (OR FORTHCOMING VIA ADDENDUM), AND THE FOLLOWING SPECIFICATIONS ARE ADDED FOR COMPLIANCE.
- 1.02 All lead-based paint surface preparation and paint stabilization shall be performed by California Department of Public Health (CDPH) certified personnel. All lead waste shall be properly stored onsite and characterized for disposal. Based on characterization results, hazardous waste shall be handled by a licensed hazardous waste transporter. Disposal must be in accordance with all applicable federal, state and local regulations.
- 1.03 Contractor must provide a CDPH certified Project Monitor or Inspector/Assessor responsible for overseeing the job until the surface preparation process is complete.
- 1.04 Lead preparation work may not be done during normal business hours when school is in session or students and staff are present, unless directed by district.

PART 2 – REGULATIONS

- 2.01 The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, persons, and subcontractors occupying areas adjacent to the site. The contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State, and local regulations. The contractor shall hold the District harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.
- 2.02 Federal Requirements which govern lead work or hauling and disposal of lead containing waste materials include, but are not limited to the following:
- A. U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:
 - 1. Construction Industry Title 29, Part 1926 of the Code of Federal Regulations.
 - 2. Respiratory Protection Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
 - 3. Access to Employee Exposure and Medical Records Title 29, Part 1910, Section 2 of the Code of Federal Regulations.
 - 4. Hazard Communication Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
 - B. California Occupational Safety and Health Administration, (Cal/OSHA), including but not limited to:
 - 1. Title 8 CCR Section 1532.1 Construction Safety Orders, Lead
 - C. California Department of Health Services

1. Title 17 CCR Division 1, Chapter 8 Accreditation, Certification, and Work Practices for Lead-Based Paint and Lead Hazards.

- D. State and Federal Regulations which govern lead waste hauling and disposal of lead containing waste materials include but, are not limited to the following:
 1. Title 40-Parts 262 & 263 of the Code of Federal Regulations
 2. Title 22-Code of California Regulations Division 4, Chapter 30

- E. DOT: US Department of Transportation
 1. Hazardous Substances Title 49, Part 171 and 172 of the Code of Federal Regulations
 2. Contractor shall abide by all local requirements which govern hauling and disposal of lead containing waste material.

- F. Environmental Protection Agency (EPA), including but not limited to:
 1. Renovation, Repair, and Painting (RRP) Final Rule (40 CFR 745) requires that renovations conducted for compensation, must be performed by Certified Firms using Certified Renovators.

PART 3 – SUBMITTALS

- A. Prior to the start of work, each contractor or sub-contractor that performs manual demolition, sanding, scraping, abrasive blasting, heat gun applications, welding, or torch cutting of any building construction material that has been identified to contain lead based paint, shall submit the following to the general contractor and the District Environmental Services Manager, 4600 N. Brawley, Fresno, CA 93722:
 1. A diagram for each work area indicating the work site preparation and locations of barriers, decontamination units or hand washing stations.
 2. A copy of the contractor's health and safety (SB198) program for lead paint.
 3. A copy of the contractor's respiratory protection program.
 4. Medical approval for respirators for each worker.
 5. Recent (within 6 months) Lab Certified Lead-in-Blood Level Test Results.
 6. A current training certificate for each worker (24 hour) and supervisor (40 hour) on site.
 7. Certificates of Worker Acknowledgment for each worker. Sample attached.
 8. Written Cal/OSHA compliance program for the project including:
 - a. A description of each activity in which lead is emitted, e.g., equipment used, material involved, controls in place, employee job responsibilities, operation procedures, and maintenance practices.
 - b. Air monitoring data which document the source of lead emissions.
 - c. A description of arrangements made among contractors on multi-contractor sites with respect to informing effected employees of potential exposure to lead and with respect to responsibility for compliance with this section.
 - d. Provisions for frequent and regular inspections of the job site, materials, equipment and housekeeping to be made by a CDPH certified Project Monitor or Inspector/Assessor.
 9. A letter from contractor-provided CDPH certified Project Monitor or Inspector/Assessor, providing their certification number and a statement confirming that they will oversee and monitor the lead surface preparation stage of the contract to ensure compliance with the bid specifications and all applicable laws and regulations.

PART 4 – WORK PRACTICES

- A. Renovation, Repair and Painting (RRP) Requirements:
1. Since this is a child-occupied site construction prior to 1978, the US EPA RRP rule will apply. This Rule applies to all impacting lead paints at the site, regardless of the contractor performing the work (prime contractor, abatement sub-contractor or other subcontract trades). The Contractor impacting lead paints is responsible for performing all work in accordance with the Rule, including but not limited to, work practices and containment requirements, documentation of all work performed, holding of RRP certifications, and cleaning verification sampling.
- B. This procedure shall apply only to projects involving lead paint surface preparation. No exterior lead paint surface preparation, scraping, sanding, etc., will be allowed during regular business hours when school is in session on the exterior of the building(s). Suitable times must be worked out with the District at least twenty-four (24) hours in advance to allow for scheduling of inspector and/or caretaker to be on site. Overtime for District personnel will be District responsibility.
- C. Interior lead surface preparation work shall be coordinated with other contractors and/or the district to ensure the paint contractor's exclusive access to the work area. All workers shall be fully trained and certified to work with lead Based Paint (IBP). Training must be conducted in accordance with Title 17 CCR, Section 35065, Article 7, lead-Related Construction Work Course.
- D. The following practices shall be followed unless it is verified that the paint is lead free:
1. General
 - a. Employees shall wear HEPA filter (magenta/purple) equipped half mask or full faced respirators. Employees shall be medically approved and trained to wear respirators.
 - b. Employees shall wear disposable coveralls while performing lead surface preparation.
 - c. Employees shall wear hats or hair coverings while performing lead surface preparation.
 - d. Employees shall wear shoe coverings while performing lead surface preparation.
 - e. Employees shall thoroughly wash all exposed body surfaces (hands and faces) prior to eating, smoking, drinking, using the restroom or leaving the work area.
 - f. Employees shall wear safety glasses or appropriate safety goggles during paint surface preparation operations to prevent paint chips or dust from entering the eyes.
 - g. Employees shall remove all lead contaminated clothing before leaving the work area. This includes lunch areas and the work site.
 - h. Impervious gloves shall be worn when working with tri-sodium phosphate solutions. Plastic aprons shall also be worn. Tri-sodium phosphate is caustic and should be washed off immediately if splashed.
 2. Paint Surface Preparation
 - a. Only low-pressure water shall be used for cleaning. The Contractor shall provide a garden hose with a spray attachment for this purpose. Under no circumstances shall the Contractor use the water to remove loose or peeling paint.
 - b. For exterior surfaces, the area(s) where paint surface preparation, including

sanding or scraping is to occur shall be covered with 6 mil plastic to capture any paint chips or dust generated during surface preparation. The plastic shall extend at least twelve (12) feet away from the work for every building story where the work is occurring and at least six (6) feet to each side of the work.

- c. All exterior openings to the building (windows, doors, etc.) will be sealed from the inside to prevent any lead dust from entering the building. Contractor will seal the opening(s) using six (6) mil plastic and duct tape. Contractor will be responsible to repair any damage caused by this containment.
- d. For interior surfaces, two layers of 6-mil poly sheeting must be placed on the entire floor. The poly sheeting must be secured to the floor using tape so there is no gap between the floor and the wall. If individual rooms are being worked in, seal all doorways with a primitive airlock flap to prevent contamination of other areas of the building. Post Lead Warning Signs at the building exterior near main and all secondary entry ways. All ventilation systems are to be turned off and sealed with poly sheeting. If furniture or other equipment are to remain in place, cover with a single layer of poly sheeting. All cleanup of the work area shall be performed using a HEPA vacuum and wet washing techniques.
- e. If any lead containing surface requires wet sandblasting areas around the blast area will be protected. Contractor will be required to return any damaged area to its original condition at their own expense. All wet sand (if allowed) will be contained and disposed of as hazardous waste.
- f. Restrict entry only to those persons necessary to complete the work from the area covered by the plastic.
- g. It is recommended that larger projects be divided into smaller projects.
- h. All non-removable items shall be covered with plastic sheets. Removable items shall be moved to a location where they will not have lead dust fall on them.
- i. The area to be worked on shall be lightly wetted with a fine spray of water from a garden sprayer or atomizing bottle.
- j. Loose, peeling-flaking material should be removed from the surface(s) by wet scraping the surface(s) to obtain a smooth cleanable surface that can be repainted. Do not gouge the material. The resulting surface should be free of jagged, rough edges or snags that would interfere with the paint or coatings' ability to bridge any remaining gaps. It may be necessary to rewet fallen debris to prevent it from being blown off the plastic.
- k. All mechanical tools used for chipping, grinding, and sanding, etc., shall be dustless and produced to operate at exposures well below the OSHA Action Level and Permissible Exposure Limits.
- l. Clean the surface(s) with a damp sponge to remove small particles and dust. Reclean the area with a trisodium phosphate solution. Allow the surface to completely dry. Wet the plastic sheeting and fold the plastic into itself and place in a labeled disposal bag.
- m. The "clean" dry surface(s) are to be sealed with a lead free paint or coating.
- n. All areas where debris has fallen shall be thoroughly vacuumed with a HEPA vacuum at the end of each work operation. This includes the plastic sheeting and the workers' protective clothing.
- o. All tools and equipment not discarded as lead contaminated shall be properly decontaminated before removal from the work area, or placed in six-mil poly bags for transporting from the work area.

3. Waste Disposal

- a. The following items are to be disposed of as hazardous waste.
 - 1. Personal protective equipment including disposable coveralls and booties.
 - 2. Plastic Sheeting.
 - 3. Tools/equipment (See Section 2, #13)
 - 4. Respirator cartridges
 - 5. Un-vacuumed or un-wiped items

6. Paint chips and the contents of HEPA vacuums.
- b. This waste shall be placed in sturdy plastic bags (6 mil or better), goose-necked and duct taped. The bag must be labeled to identify the contents, the site name where the hazardous waste materials were generated and the date of generation.
- c. The contractor is responsible for safely storing the bagged hazardous waste onsite until it has been characterized and can be removed for disposal. The hazardous waste, properly contained and labeled, will be transported by the contractor's selected hauler to the appropriate disposal facility.

4. PROJECT CLOSEOUT

- a. The following information will be provided by the Contractor to the District:
 1. Complete record, certified by the testing laboratory, of all personnel and air monitoring results.
 2. Certificate of Visual Inspection for each work area. (See certificate included after results).
 3. Waste characterization testing results.
 4. Manifests for all hazardous waste material.

5. LEAD ANALYSIS

1. Field testing of existing paint surfaces using X-Ray Fluorescence (XRF) at all sites indicate the attached listed concentrations of lead-based paints. Each paint color tested, the component and substrate shall be considered a homogeneous area throughout the site. Results from the XRF Survey over 0.00 mg/cm² must be considered lead containing and preparation must comply with all applicable specifications and regulations concerning surface preparation of lead-based paints.

FRESNO UNIFIED SCHOOL DISTRICT
CERTIFICATION OF COMPLETION OF
LEAD PREPARATION BY AREA
(to be completed by awarded contractor)

School Name: _____

Date: _____

Lead paint preparation has been completed to my/our satisfaction on the following areas/buildings.

List specific building name, room numbers or areas completed, i.e., gymnasium, wing, rooms 1, 2 & 3, portable number 3, etc.



Signatures:

District Inspector

Painting Contractor Representative

Print/Type Name

Print/Type Name

Contractor's Project Monitor

Company Name Print/Type

Name

Consultant Company Name

CERTIFICATE OF WORKER'S ACKNOWLEDGMENT

Project Name: _____ Project

Address: _____

Date: _____

Contractor: _____

WORKING IN LEAD CAN BE DANGEROUS. INHALING LEAD PAINT DUST HAS BEEN LINKED WITH VARIOUS HEALTH PROBLEMS.

Your employer's contract with the District for the above project requires that:

- a) You be supplied with the proper respirator and be trained in its use;
- b) You be trained in safe work practices and in the use of the equipment found on the job; and;
- c) You receive a medical examination. These things are to have been done at no cost to you.

By signing this Certificate, you are assuring the District that your employer has met these obligations to you.

RESPIRATORY PROTECTION: I have been trained in the proper use of respirators and informed of the type respirator to be used on the above referenced project. I have a copy of the written respiratory protection manual issued by my employer. I have been equipped at no cost with the respirator to be used on the above project.

TRAINING COURSE: I have been trained in the dangers inherent in handling and breathing lead dust and in proper work procedures and personal and area protective measures. The topics covered in the course include the following:

- The content of the lead construction standard
- The specific nature of operations which could result in exposures in excess of the PEL
- The purpose, proper selection, fitting, use and limitations of respirators
- The purpose and description of the medical surveillance program
- Information concerning the health effect associate with excessive exposure to lead
- The engineering controls and work practices
- The contents of any compliance plan in effect
- Instructions to only use chelating agents under the direction of a licensed physician
- Their right to access records under 29CFR 1910.20

Signature: _____

Print Name: _____

Social Security Number: _____

FRESNO UNIFIED SCHOOL DISTRICT
GENERAL PAINTING
REQUIREMENTS

PART 1 - GENERAL

- A. All paint must be delivered in its original sealed containers. Refer to specification section 09901 for approved materials list. Every lid of the sealed containers must be initialed by the District Inspector prior to being opened.
- B. Colors of paint shall be as directed by the School District. In general, these colors will be different than existing. Contractor shall allow for three (3) color combinations per structure, consisting of a base, trim, and accent. All colors used must be approved by District Inspector at least two days before materials are to be applied.
- C. Where two coats are specified on exterior stucco or masonry surfaces, the color of the first coat must be "let-down" with white at a ratio of 1:5 (1 gal. to 5 gal.) and a sample of this "let-down" is to be submitted as the finish color, in accordance with Item #3 above.
- D. All doors and door frames shall be painted inside and out. Interior paint color shall match exterior.
- E. No paint shall be applied on wet or damp surfaces.
- F. All oily paint rags shall be removed from premises each night before workers leave the job, or they shall be kept in metal containers approved by the Underwriters Laboratory.
- G. School District will cut back bushes so that painters will have required working space around buildings. Prior to commencement of work, Contractor shall notify District of any existing items that interfere with scope of work.
- H. One coat of back rolling will be required on all wood, stucco, concrete, masonry block and masonry surfaces. Its application will be as directed by the District, District Inspector, Executive Director of Maintenance, or their authorized representative.
- I. Spray painting operations shall not be performed during school hours that students and/or faculty are in session, unless otherwise directed by District.
- J. Contractor is required to have an individual providing continual supervision on the job at all times that has complied with California Contractor fingerprinting/background requirements and cleared by the Department Of Justice (DOJ) through the District's Human Resources/Safety Department, and has not been convicted of a violent or serious felony. The District requires that the contractor have at least 2 (two) individuals with verified fingerprinting clearance in order to ensure that at least 1 (one) verified supervisor is onsite and responsible for the supervision of contractor's employees at all times.
 - 1. Badges will be distributed to the Contractor's employees that are cleared by the DOJ through the District and are to be worn and displayed in clear view at all times.
 - 2. Each employee upon request must show identification that he/she is, in fact, employed by the Contractor.
- K. Double-hung window runs which are exposed to the exterior when windows are closed are not to be painted unless previously painted or otherwise noted.

- L. All paint which is skinned over or dirty shall be strained immediately through fine cheese cloth to remove dirt, grit, skins, etc...
- M. All putty surfaces in sash, doors, sawtooth windows, etc., shall be painted, where surfaces adjacent to same are specified to be painted, with both primer and finished coats of paint if the new color is different from the original color or if putty has never been painted.
- N. Dismissal bells, dismissal hams, exposed conduit and pipe specified to be painted, shall be painted the same as adjacent wall surfaces. Gong part of dismissal bells to be given one coat of lacquer or aluminum paint as directed, care being taken to keep paint off bell hammers.
- O. When painting putty or wood stops around glass on exterior side of windows, paint shall extend out on glass approximately 1/16". This shall be done in a neat and workmanlike manner. Painting work, if done beyond this point, shall be removed flush with putty or wood stops and be repainted.
- P. All workers on the job site are to be dressed in painter's whites with caps and OSHA-approved footwear.
- Q. Sites may have other vendors performing separate contracts concurrent to painting operations. Contractor shall coordinate work tasks with any concurrent work to prevent any delays to project schedule.

PART 2 - WORK REQUIRED BEFORE STARTING TO PAINT

- A. Painting Contractor will be required to furnish a written statement from painting manufacturer's agent verifying that they have inspected the site and approve the following:
 - 1. All surfaces over which paint is to be applied prior to patching and painting is started.
 - 2. Patching material used for patching cracks. Patching material must be new from unopened packages.
 - 3. Method used in patching cracks and of removal of patching material from plastered surfaces adjacent to cracks.
 - 4. Type of paint used for first and second coats and method of application.
- B. Surfaces listed below, if specified to be painted, shall be washed with a hot solution consisting of not less than one (1) pound of trisodium phosphate per gallon of water. Areas showing mold shall be heavily washed with this solution. All surfaces washed shall then be rinsed with clean water and allowed to dry before painting.
 - 1. All surfaces specified to be finished with synthetic glass enamel.
 - 2. All surfaces of interior and exterior doors and jambs and trim of same.
 - 3. All pipe columns and downspouts at covered ways, canopies, etc.
 - 4. All metal railings.
- C. Putty all glass in sash, doors, etc., where same has become loosened or broken out, where specified to be painted. Loose putty shall be removed, and all bare spots coated with a thin priming coat of linseed oil, and allowed to dry before puttying.
- D. All cracks in any wood surfaces, specified to be painted, shall be filled with latex caulk before painting.
- E. Putty all holes. Patch all places in plaster where same has become cracked, loosened or broken out. Any cracks of space between plaster and wood casing or wood base shall be filled with latex caulking and sanded smooth before painting.
- F. Stains in all plaster surfaces specified to be painted must be eliminated before painting.

- G. All loose and scaled paint shall be removed by power sanding on all surfaces specified to be painted.
- H. All glossy paint surfaces shall be sanded to remove gloss before painting.
- I. All efflorescence alkali or mildew shall be removed by scrubbing affected areas with an approved solution and rinsed with clear water before painting.
- J. All galvanized metal surfaces specified to be painted shall first be washed with paint thinner and etched before painting.
- K. All hardware, name plates on doors, locker numbers and locks, electrical fixtures, and similar accessories shall be removed or masked before painting and shall be replaced or unmasked upon completion of work.
- L. Remove all rust on metal work specified to be painted by wire brushing, sandblasting, or other satisfactory means until metal is clean, in order to secure a clean surface, free from rust, upon which to apply paint. One coat rust inhibitive primer shall then be applied.
- M. School District will repair all woodwork on siding, vents, sash doors, frames, etc., as necessary. Painting Contractor shall notify School District of any repairs needed which he/she might find.
- N. Protect buildings, walks, equipment, shrubs, plants, etc., upon which paint might be splattered. Special care shall be taken when mixing (or apply paint in rooms which have asphalt tile floors, as these floors are easily damaged by paint soaking through drop cloths). Contractor will be held fully responsible for any damage done to school property.
- O. Remove all wire window guards and fly screens, marking same so that Contractor can replace them on the sash or doors from which they are removed. Before paint, all cracks (except hairline cracks) in exterior plaster and concrete surfaces specified to be painted, shall be filled with a patch as recommended by the manufacturer of paint to be used, and as approved by the School District's Inspector. It shall be applied to the crack only (not to the sides of the crack). Care shall be used to keep patching material off the sides of the cracks.
- P. Patching of cracks on exterior plaster or concrete surfaces shall not be started until Representative of Paint Company whose material is to be used, School District Inspector, Painting Contractor, and the Foreman in charge of the job, have all inspected the surface and are in agreement as to the method of patching to be used.
- Q. Where dirt surfaces meet the wall at ground line, the dirt shall be excavated to a depth of five inches (5") below present ground line, the wall cleaned, and stucco paint applied as near practical to the bottom line of this trench. After painting work is finished and approved, the dirt shall be replaced.

PART 3 - INSPECTIONS

- A. Per Specification 09900, 3.03 Quality Control, the inspections stated below are required prior to proceeding with subsequent steps of work.
 - 1. STEP 1: After all cleaning, washing, sanding, sandblasting, and removal of paint.
 - 2. STEP 2: After all specified surface preparation and patching has been complete. Also provide district with letter from material manufacturer per Part 2.A of 09905.
 - 3. STEP 4: After prime coat
 - 4. STEP 5: After 1st coat of Finish coat.
 - 5. STEP 6: After 2nd coat of Finish coat.
 - 6. STEP 7: After additional coverage coat.

- B. District appointed personnel will conduct inspections at its sole discretion and may provide contractor with written directives that list work items needing corrective measures.

PART 4 - SANDBLASTING

- A. Surfaces requiring sandblasting require the following:
 1. Protection of adjacent surfaces, equipment, and appurtenances. Damages caused by sandblasting operations are the responsibility of Contractor.
 2. Cleaning of any and all debris resulting from sandblasting operations.
 3. Sandblasting will not be permitted on a Sunday unless written permission is received from School District.
 4. Only sharp, dry sand of proper grading to give satisfactory results shall be used, as required by Air Quality Management District.
 5. Dirt shall be excavated to a depth of five inches (5") below ground line and surfaces sandblasted to this point.
 6. Priming coat of paint shall be applied on metal surfaces that same day that sandblasting is done.
 7. Any rust that develops prior to prime or finish coats shall be removed by additional sandblasting.

END OF SECTION