

DIVISION 41

PAINTING

41.01 SCOPE: The work in this section includes furnishing all labor, materials, equipment and other incidentals to complete the painting for the pumping station in accordance with the Contract Documents.

41.02 MATERIALS:

A. Masonry Application:

1. Interior Concrete Block: One Coat block filler approved by paint manufacturer and two coats Ramuc Non-Lead Utility Enamel (1 gal. per 250 sq. ft.).
2. Exterior Foundation Walls (up to a line 6" below finish floor) and Wet well: Two coats Poxitar (1 gal. per 160 sq. ft.).

B. Metal Application:

1. Submerged (except chains): Shop Primer with one coat of Poxitar Primer (1 gal. per 250 sq. ft.); one coat grease coating (1 gal. per 40 sq. ft.).
2. Submerged (chains, gates, other moving parts): Shop Primer, one coat No. 621 (1 Gal. per 250 sq. ft.); one coat grease coating (1 gal. per 40 sq. ft.).
3. Non-Submerged: One coat Primer No. 621 (1 gal. per 250 sq. ft.), two coats Rust-Oleum per following color schedule:
 - a. Green Metallic Alum. - Rust-Oleum #1030
Pumps, cast iron sewage piping, sump pump piping, pump bleeding lines (if copper, do not paint), located in pump room level of wet well/dry well type station.
 - b. Light Gray - Rust-Oleum #902
Pump motors, vent fans, air ducts, inside floor hatches and frames, inside floor grates, metal doors inside and outside, door frames, window frames, wire window covers, steel beam drive shaft support, electric meter cover and box, inside hand rails, metal stairs, pumps and cast iron piping when in motor room level of positive suction lift stations.

- c. Bright Red - Rust-Oleum #11-19
Valve wheels, valve handles, check valve cover plates end counter weights, electric conduit, junction boxes, light switches and any electrical device not defined. Where indicated on plans, electrical devices shall be stained with olympic oil-base stain, with choice of color and type (semi-transparent or solid) by City.
 - d. Forest Green - Rust-Oleum #1282
Emergency force main connection and valve box, City water piping, potable water lines (if copper, do not paint).
 - e. Black - Rust-Oleum #11-5
Wet well steps, outside hand rails, outside piping, wet well rails, force main piping in wet well, outside hatches and covers, any metal outside or in corrosive area not listed in paint chart to be painted.
 - f. Bright Alum. - Rust-Oleum #470
Pump drive shafts and shaft couplings.
 - g. DO NOT PAINT NAMEPLATES: Cover with clear plastic or varnish Rust-Oleum #717 Clear-Sele, if needed.
 - h. A paint of equal quality will be accepted subject to approval by the Engineer provided it is a direct match and it does not have a lacquer vehicle but an oil base vehicle.
4. Galvanized Metal, Copper Pipes, Non-Ferrous Metal: Galvanized metal, with the exception of galvanized steel pipe shall not be painted. Galvanized steel pipe inside buildings and exposed shall be treated with one coat of Inertol Metal Passivator No. 35 (1 gal. per 300 sq. ft.) prior to priming. Copper pipe and tubing shall not be painted. Non-ferrous metal, unless a minor part of an item that requires painting shall not be painted. Galvanized handrails shall not be painted.

C. Wood Application:

- 1. Interior Wood Surfaces: One coat of Inertol Undercoat No. 623 (1 gal. per 400 sq. ft.) and two coats of Glamortex Non-lead Enamel (1 gal. per 400 sq. ft. per coat).
- 2. Exterior Wood Trim, Etc.: To be primed and wrapped in aluminum as shown on the construction plans.

41.03 EXECUTION:

A. All interior and exterior wood surfaces, mechanical equipment, pumps, piping, interior masonry, and miscellaneous metal items except those specified for galvanized finish shall be painted with two coats of paint (or more as specified above) of the types specified herein using colors as directed by the Engineer. Exterior masonry shall be painted only if brick veneer is not used. Interior concrete floors shall not be painted.

B. Preparation of Surfaces:

1. All surfaces shall be thoroughly cleaned of all moisture, dirt, oil, grease, rust, scale, pitch, tar, asphalt, and other foreign matter prior to painting.
2. All sap wood and knots shall receive a thin coat of shellac before priming or painting.
3. Masonry shall be fully cleaned, brushed free of loose particles, and pointed prior to being painted.
4. Sand all wood thoroughly, removing machine marks and any other defects prior to painting or finishing. Putty all nail holes, joints, cracks, and other depressions in wood surfaces, prior to finish coats of painting. Do not sand rough-sawn trim.
5. Remove all rust or other damage to shop coat on ferrous metal surfaces. Re-prime damaged metal surfaces, bare metal surfaces with red lead paint prior to painting.
6. The contractor shall not paint any surfaces that are not in proper condition for painting. The Contractor shall notify the Engineer in writing before any painting or finishing of such surfaces is commenced. The application of the first coat of job painting of finishing shall be construed as an acceptance of the surface to which it is applied and shall be considered as waiving all claims of the Contractor in regard to proper condition of the surfaces so painted or finished.

C. Application:

1. All materials shall be applied by skilled mechanics, in strict conformance with manufacturer's directions.

2. All materials shall be evenly spread, smoothly flowed on, and brushed out thoroughly, without running or sagging. Exterior paint and masonry shall be brushed thoroughly into voids and crevices in surfaces to produce a thick coating.
3. PAIN T APPLICATIONS SHALL BE BY BRUSH, ROLLER, OR SPRAY.
4. All lines of demarcation between paint of different colors or shades and between painted and unpainted surfaces shall be carefully drawn and shall be free from wavy lines, blurred edges or overlaps.
5. Sand all woodwork between coats, except rough-sawn trim.
6. Completed surfaces shall be uniform in gloss, finish, sheen and color and shall be free from runs, sags, crawls, brush marks and other defects.
7. Vary tint of succeeding coats slightly to permit identification of coats.

41.04 MEASUREMENT AND PAYMENT: Painting will not be measured, but will be included in the lump sum bid price for the pumping station.