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**\*\* WARNING \*\* WARNING \*\* WARNING \*\* WARNING \*\***  
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February 1, 2008

02-Tri-5717  
02-350904

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in TRINITY COUNTY IN HAYFORK AT HAYFORK MAINTENANCE STATION.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on February 6, 2008.

This addendum is being issued to revise the Project Plans, and the Notice to Contractors and Special Provisions.

Project Plan Sheet 67 is revised as follows:

"On Detail 2, "COLUMN FOOTING DETAIL," the note "A325 Threaded Rod 30 mm Ø with Leveling nuts, total 4" is revised to: "30 mm Ø Threaded Rod with leveling nuts, total 4."

Project Plan Sheet 76 is revised as follows:

"On Detail 1, "INTERMEDIATE COLUMN FOOTING," the note "28.6 mm Ø A572 Threaded Rod with Leveling nuts, 510 mm Minimum Embedment, Typ" is revised to: "28.6 mm Ø Threaded Rod with Leveling nuts, 510 mm Minimum Embedment, Typ."

In the Special Provisions, Section 10-1.16, "ASPHALT CONCRETE," subsection "GENERAL," the eight paragraph is deleted.

In the Special Provisions, Section 12-3.01, "CAST-IN-PLACE CONCRETE," subsection "PART 2.-PRODUCTS," subheading "RELATED MATERIALS," subheading "Anchor bolts, nuts, and washers," is revised as follows:

"Nonheaded anchor bolts shall conform to ASTM Designation: F 1554, Grade 36.

Headed anchor bolts shall conform to ASTM Designation: A 307

Threaded rods shall conform to ASTM Designation: F 1554, Grade 36.

Nuts shall conform to ASTM Designation: A 563, Grade A.

Washers shall conform to ASTM Designation: F 844.

Exposed anchor bolts, threaded rods, nuts, and washers shall be hot dipped galvanized."

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In the Special Provisions, Section 12-3.01, "CAST-IN-PLACE CONCRETE," subsection "PART 2.-PRODUCTS," subheading "RELATED MATERIALS," subheading "Vapor Barrier--," is revised as follows:

"Vapor barrier shall be not less than 15 mils thick and shall conform to the requirements of ASTM Designation: E 1745, Grade A. Tape for overlapped seams shall be as recommended by the manufacturer of the vapor barrier."

In the Special Provisions, Section 12-3.01, "CAST-IN-PLACE CONCRETE," subsection "PART 3.-EXECUTION," subheading "PREPARATION," subheading "Vapor Barrier," is revised as follows:

"Vapor barrier shall be installed in conformance with the manufacturers recommendations and shall be protected with a 75 mm layer of clean uncompacted sand cover."

In the Special Provisions, Section 12-4.01, "CONCRETE MASONRY UNITS," subsection "PART 2.-PRODUCTS," subheading "REINFORCEMENT, TIES AND ANCHORING DEVICES," subheading "Anchor bolts--," is revised as follows:

"Anchor bolts shall conform to ASTM Designation: F 1554, Grade 36.

Nuts shall conform to ASTM Designation: A 563, Grade A.

Washers shall conform to ASTM Designation: F 844."

In the Special Provisions, Section 12-5.01, "STRUCTURAL STEEL FOR BUILDINGS," subsection "PART 2.-PRODUCTS," subheading "MATERIALS," subheading "Inorganic zinc primer," is deleted.

In the Special Provisions, Section 12-5.01, "STRUCTURAL STEEL FOR BUILDINGS," subsection "PART 2.-PRODUCTS," subheading "SHOP PAINTING," is replaced as follows:

**"General.--**Structural steel members shall be painted. Color shall be as shown on the plans.

**Painting.--**Cleaning and coating shall be in accordance with the requirements specified for the particular type of substrate material under "Painting" in Section 12-9, "Finishes," of these special provisions."

In the Special Provisions, Section 12-5.02, "METAL DECK," subsection "PART 2.-PRODUCTS," subheading "MATERIALS," subheading "Threaded rods, nuts, and washers.--" is added as follows:

**"Threaded rods, nuts, and washers.--**

Threaded rods shall conform to ASTM Designation: A 307.

Nuts shall conform to ASTM Designation: A 563, Grade A.

Washers shall conform to ASTM Designation: F 844.

Threaded rods, nuts, and washers shall be hot dipped galvanized."

In the Special Provisions, Section 12-9.06, "PAINTING," is revised as attached.

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To Proposal and Contract book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the NOTICE TO CONTRACTORS section of the Notice to Contractors and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by confirmed facsimile to all book holders to ensure that each receives it. A copy of this addendum is available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL, Chief  
Office of Plans, Specifications & Estimates  
Division of Engineering Services - Office Engineer

Attachments

## 12-9.06 PAINTING

### PART 1 - GENERAL

Scope: This work shall consist of preparing surfaces to receive coatings, and furnishing and applying coatings, in conformance with the schedules and details shown on the plans and these special provisions.

The coatings specified in this section are in addition to any factory finishes, shop priming, or surface treatment specified elsewhere in these special provisions.

#### DEFINITIONS

**Detergent Wash:** Removal of dirt and water-soluble chemicals by scrubbing with a solution of detergent and water, and removal of all solution and residues with clean water.

**Hand Cleaning:** Removal of dirt, loose rust, mill scale, excess base material, filler, aluminum oxide, chalking paint, peeling paint, or paint that is not firmly bonded to the surfaces by using hand or powered wire brushes, hand scraping tools, power grinders, or sandpaper and removal of all loose particles and dust prior to coating.

**Mildew Wash:** Removal of mildew by scrubbing with a solution of detergent, hypochlorite-type household bleach, and warm water, and removal of all solution and residues with clean water.

**Abrasive Blasting:**

Removal of loosely adhering paint, dirt, rust, mill scale, efflorescence, weak concrete, or laitance, shall be by the use of airborne abrasives. Loose particles, dust, and abrasives shall be removed by blasting with clean, oil-free air.

Abrasives shall be limited to mineral grit, steel grit, or steel shot, and shall be graded to produce the surface profile recommended in the manufacturer's data sheet.

**Steam Cleaning:** Removal of oil, grease, dirt, or other foreign matter by using steam generated by commercial steam cleaning equipment, from a solution of water and steam cleaning compounds, and removal of all residues and cleaning compounds with clean water.

**TSP Wash:** Removal of oil, grease, dirt, paint gloss, and other foreign matter by scrubbing with a solution of trisodium phosphate and warm water, and removal of all solution and residues with clean water.

**Water Blasting:** Removal of dirt, loose scale, chalking, or peeling paint by low-pressure water cleaning. Water blasting shall be performed in conformance with the requirements in SSPC-SP12 and shall produce a surface cleanliness meeting the requirements of SSPC-SP12-WJ4. Equipment used shall have a minimum flow rate of 6.8 liters per minute. If a detergent solution is used, it shall be biodegradable and shall be removed from all surfaces with clean water.

**Protection:**

The Contractor shall provide protective devices, such as tarps, screens or covers, as necessary to prevent damage to the work and to other property or persons from all cleaning and painting operations.

Paint or paint stains on surfaces not designated to be painted shall be removed by the Contractor at the Contractor's expense and the original surface shall be restored.

## **SUBMITTALS**

Manufacturer's descriptive data, a materials list, and color samples shall be submitted for approval.

Product descriptive data shall include product description, manufacturer's recommendations for product mixing, thinning, tinting, handling, site environmental requirements, product application, and drying time.

Materials list shall include manufacturer's name, trade name, and product numbers for each type coating to be applied.

Color samples shall be manufacturer's color cards, approximately 50 mm x 75 mm, for each color of coating shown on the plans. Color samples for stains shall be submitted on wood of the same species, color, and texture as the wood to receive the stain.

## **QUALITY ASSURANCE**

Certificates of Compliance: Certificates of Compliance shall be furnished when products are required to conform with the requirements of The Society for Protective Coatings (SSPC) in conformance with the requirements specified in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.

## **REGULATORY REQUIREMENTS**

Coatings and applications shall conform to the rules for control of Volatile Organic Compound (VOC) emissions adopted by the air quality control district in the air basin in which the coatings are applied.

## **SITE ENVIRONMENTAL REQUIREMENTS**

Coatings shall be applied in conformance with the environmental constraints specified in the manufacturer's printed instructions. These conditions shall be maintained until the coating has cured and is ready for recoat.

Continuous ventilation shall be provided during application of the coatings.

Adequate lighting, as determined by the Engineer, shall be provided while surfaces are being prepared for coatings and during coating applications.

## **DELIVERY, STORAGE, AND HANDLING**

Products shall be delivered to the site in sealed, labeled containers and stored in a well-ventilated area at an ambient air temperature of not less than 7°C. Container labeling shall include manufacturer's name, type of coating, trade name, color designation, drying time, and instructions for tinting, mixing, and thinning.

## **MAINTENANCE STOCK**

Upon completion of coating work, a full 3.8-liter container of each type and color of finish coat and stain used shall be delivered to the location at the project site designated by the Engineer. Containers shall be tightly sealed and labeled with color, texture, and room locations where used, in addition to the manufacturer's standard product label.

## **PART 2 - PRODUCTS**

Products for each coating system shall be from a single manufacturer and shall conform to the requirements in the Detailed Performance Standards of the Master Painters Institute (MPI). Each product shall be shown on the MPI Approved Products List unless otherwise specified in these special provisions.

## **PART 3 - EXECUTION**

### **INSPECTION**

Coatings shall not be applied until surface preparation has been approved by the Engineer. The Contractor shall notify the Engineer at least 3 working days prior to the application of coatings.

### **SURFACE PREPARATION**

Surfaces scheduled to be coated shall be prepared in conformance with the coating manufacturer's printed instructions unless otherwise specified in these special provisions.

Hardware, cover plates, light fixture trim, and similar items shall be removed prior to preparing surfaces for coating. Following the application of the finish coating, the removed items shall be reinstalled in their original locations.

#### **Wood:**

Coatings for exterior applications shall have the surface lightly sanded no more than 24 hours prior to the coating application.

A sealer recommended by the coating manufacturer shall be spot applied to knots, sap, pitch, tar, creosote, and other bleeding substances.

After the application of the prime coat, all nail holes, cracks, open joints, dents, scars, and surface irregularities shall be filled, hand cleaned, and spot primed to provide smooth surfaces for the application of finish coats.

Irregularities in wood surfaces to receive a transparent stain finish shall be filled and hand cleaned after the first coat of stain has been applied. The color of the filler shall match the color of the stained wood.

Irregularities in wood surfaces to receive a clear finish shall be filled and hand cleaned before the application of coatings. The color of the filler shall match the color of the coated wood.

#### **Galvanized Metal:**

New surfaces shall be roughened by hand sanding or light abrasive blasting. Galvanizing shall not be removed during cleaning or roughening.

Damaged or corroded areas shall be cleaned and given 2 spot applications of a coating that conforms to the requirements in the Detailed Performance Standards of the MPI, and listed on MPI List "Number 18, Primer, Zinc Rich, Organic."

**Steel and Other Ferrous Metals:** Surface shall be cleaned in conformance with the requirements in SSPC-SP 1. Surface profile shall be as required for the coating system specified.

Aluminum and Other Non-ferrous Metals: Surface shall be cleaned in conformance with the requirements in SSPC-SP 1.

Gypsum Board: Holes, cracks, and other surface imperfections shall be filled with joint compound or suitable filler prior to application of coatings. Taped joints and filled areas shall be hand sanded to remove excess joint compound and filler.

Concrete and Concrete Masonry Unit: New material shall be cleaned and prepared in conformance with the requirements in SSPC-SP 13. Cracks and voids shall be filled with cement mortar patching material. Concrete shall be cured until the surface moisture is below the level specified in the coating manufacturer's printed instructions.

## **APPLICATION**

Coatings shall be applied in conformance with the printed instructions and at the application rates recommended by the manufacturer to achieve the dry film thickness stated in the coating technical data sheet.

Mixing, thinning and tinting shall conform to the manufacturer's printed instructions. After thinning, the coating shall conform to the regulatory requirements in these special provisions.

Coatings shall be applied only when surfaces are dry and properly prepared.

Cleaning and painting shall be scheduled so that dust and other contaminants from the cleaning process will not fall on wet, newly coated surfaces.

Materials required to be coated shall have coatings applied to all exposed surfaces, including the tops and bottoms of wood and metal doors, the insides of cabinets, and other surfaces not normally visible from eye level.

### Surface Finish Application:

Each coat shall be applied to a uniform finish. Finished surfaces shall be free of surface deviations and imperfections such as skips, cloudiness, spotting, holidays, laps, brush marks, runs, sags, curtains, ropiness, improper cutting in, overspray, drips, ridges, waves, and variations in color and texture.

Each application of a multiple application finish system shall closely resemble the final color coat, except each application shall provide enough contrast in shade to distinguish the separate applications.

### Work Required Between Applications:

Each application of material shall be cured in conformance with the coating manufacturer's printed instructions before applying the succeeding coating.

Enamels and clear finishes shall be lightly sanded, dusted, and wiped clean between applications.

Stain blocking primer shall be spot applied whenever bleeding substances are visible through the previous application of a coating.

Timing of Applications: The first application of the coating system shall be during the same work shift that the final surface preparation was performed. Additional coats shall be applied as soon as the required drying time of the preceding coat, specified in the coating manufacturer's printed instructions, has been met.

#### Application Methods:

Coatings shall be applied by brush, roller or spray. Rollers shall be of a type which do not leave a stippled texture in the paint film. Extension handles for rollers shall not be greater than 1.8 meters in length.

If spray methods are used, surface deviations and imperfections such as overspray, thickness deviations, lap marks, and orange peel shall be considered as evidence the work is unsatisfactory and the Contractor shall apply the remainder of the coating by brush or roller, as approved by the Engineer.

#### Back Priming:

The first application of the coating system shall be applied to all wood surfaces (face, back, edges, and ends) of wood materials that are not factory coated, immediately upon delivery to the project site. Surfaces of interior finish woodwork that adjoin concrete or masonry shall be coated with one application of exterior wood primer before installation.

Patches in Previously Coated Surfaces: Where patches are made on surfaces of previously coated walls or ceilings, the entire surface to corners on every side of the patch shall be coated with a minimum of one application of the finish coat.

#### Finishing Mechanical and Electrical Components:

Shop primed mechanical and electrical components shall be finish coated in conformance with the coating system specified for the substrate material. Louvers, grilles, covers, and access panels on mechanical and electrical components shall be removed and coated separately.

Interior surfaces of air ducts which are visible through grilles or louvers shall be coated with one application of flat black enamel, to limit of the sight line.

Exposed conduit, piping, and other mechanical and electrical components shall be painted.

Both sides and all surfaces, including edges and back of wood mounting panels for electrical and telephone equipment shall be finish coated before installing equipment.

#### **CLEANING**

Upon completion of all operations, the coated surfaces shall be thoroughly cleaned of dust, dirt, grease, or other unsightly materials or substances.

Surfaces marred or damaged as a result of the Contractor's operations shall be repaired, at his expense, to match the condition of the surfaces prior to the beginning of the Contractor's operations.

#### **COATING SYSTEM**

The surfaces to be coated shall be as shown on the plans and as specified in these special provisions. When a coating system is not shown or specified for a surface to be finish coated, the coating system to be used shall be as specified for the substrate material. The number of applications specified for each coating system listed herein is a minimum. Additional coats shall be applied if necessary to obtain a uniform color, texture, appearance, or required dry film thickness.

SYSTEM 1 - ALUMINUM AND OTHER NON-FERROUS METALS:

2 Finish Coats:

Flat: Latex, exterior, MPI Gloss Level 1, MPI List Number 10  
Eggshell-like: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 3, MPI List Number 161  
Semi-Gloss: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 5, MPI List Number 163  
Gloss: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 6, MPI List Number 164

SYSTEM 2 - CONCRETE MASONRY UNIT:

One Prime Coat:

Block Filler: Latex, Interior/Exterior MPI List Number 4

2 Finish Coats:

Flat: Latex, Exterior, MPI Gloss Level 1, MPI List Number 10  
Semi-Gloss: Latex, Exterior, MPI Gloss Level 5, MPI List Number 11

SYSTEM 3 - GALVANIZED METAL:

2 Finish Coats:

Flat: Latex, Exterior, MPI Gloss Level 1, MPI List Number 10  
Eggshell-like: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 3, MPI List Number 161  
Semi-Gloss: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 5, MPI List Number 163  
Gloss: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 6, MPI List Number 164

SYSTEM 4 - GYPSUM BOARD:

One Prime Coat:

Primer Sealer: Latex, Interior, MPI List Number 50

2 Finish Coats:

Flat: Latex, Interior, MPI Gloss Level 1, MPI List Number 53  
Velvet-like: Latex, Interior, MPI Gloss Level 2, MPI List Number 44  
Semi-Gloss: Latex, Interior, MPI Gloss Level 5, MPI List Number 54  
Gloss: Latex, Interior, MPI Gloss Level 6, MPI List Number 114

SYSTEM 5 - STEEL AND OTHER FERROUS METALS, EXTERIOR EXPOSURE

2 Prime Coats:

Primer: Rust Inhibitive, Water Based, MPI List Number 107

2 Finish Coats:

Flat: Latex, Exterior, MPI Gloss Level 1, MPI List Number 10  
Eggshell-like: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 3, MPI List Number 161  
Semi-Gloss: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 5, MPI List Number 163  
Gloss: Light Industrial coating, Water Based, Exterior, MPI Gloss Level 6, MPI List Number 164

**SYSTEM 6 - WOOD, PAINTED:**

**1 Prime Coat:**

Primer: Latex for Exterior Wood, MPI List Number 6

**2 Finish Coats:**

Flat: Latex, Exterior, MPI Gloss Level 1, MPI List Number 10

Low Sheen: Latex, Exterior, MPI Gloss Level 3/4, MPI List Number 15

Semi-Gloss: Latex, Exterior, MPI Gloss Level 5, MPI List Number 11

Gloss: Latex, Exterior, MPI Gloss Level 6, MPI List Number 119

**COLOR SCHEDULE**

Colors shall be as shown on the plans.