



Paul R. LePage
GOVERNOR

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

July 6, 2011
Subject: **Fairfield & Benton**
Federal Project No's: IM-A670(000)E,
IM-1668(600)E & BR-1781(400)X
State PINs: 016700.00, 016686.00 &
017814.00
Amendment No. 1

David Bernhardt
COMMISSIONER

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 27 thru 33) **REMOVE** and disregard "**General Decision Number: ME100020 06/03/2011 ME20**" and "**General Decision Number: ME100025 06/03/2011 ME25**"

NOTE: Highway wages will apply to the entire contract.

In the Bid Book (pages 116 thru 121) **REMOVE** "SPECIAL PROVISION, SECTION 506, Lead Abatement and Field Coating Application" 6 pages dated June 23, 2011 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 506, Lead Abatement and Field Coating Application" 6 pages dated July 5, 2011.

The following question has been received:

Question: Please explain note #3 on page 71. What additional areas are anticipated and how will the touch-up of these areas be paid? By this note the entire bridge could be repainted at the resident's discretion.

Response: Please see the attached new Special Provision 506.

Consider these changes and information prior to submitting your bid on **July 20, 2011**.

Sincerely,

for Scott Bickford
Contracts & Specifications Engineer



PRINTED ON RECYCLED PAPER

SPECIAL PROVISION
SECTION 506

Lead Abatement and Field Coating Application

506.01 Description. All requirements of this Specification are the responsibility of the Contractor unless otherwise specifically stated herein. This work shall consist of localized cleaning and coating of existing and new structural steel at repair and cover plate areas. Provide all tools, equipment, materials, miscellaneous items and containment necessary for satisfactory completion of the work. Assume existing paint contains lead (BLSC). Areas requiring touch-up, as indentified by the Resident, shall conform to the requirements of this Special Provision. Areas of existing steel where the existing coating has been previously damaged, and the contractor's activities do not exacerbate or promote further damage to the existing coating system will not be touched up, painted, topcoated, or addressed in any other manner.

506.02 Materials. Provide a coating system from the following list:

Carboline –	Primer Carboguard 954 5 mils DFT Intermediate Carboguard 954 3 mils DFT Top Coat Carbocoat 30R 2 mils DFT.
Wasser -	Primer MC-Mozinc 4 mils DFT Intermediate MC-Momastic 4 mils DFT Top Coat MC-Ferrox 3 mils DFT
Sherwin-Williams–Primer	Corothane Galvapak Zinc Moisture Cure Urethane 1K 3 mils DFT Intermediate Corothane Ironox 1B 3 mils DFT Top Coat Corothane 1 HS Moisture Cure Urethane 2.5 mils DFT

Provide the manufacturer's product data sheet and MSDS for each coat to the Resident for review prior to beginning coating. Provide coating in the smallest kit sizes or containers available from the coating manufacturer.

506.03 Contractor Qualification. Have a current SSPC-QP1 and QP2 certification. Provide a surface preparation, coating application, containment and waste management plan for review by the Resident. The plan shall be stamped by a Professional Engineer licensed in the State of Maine. Have a pre-job meeting with the Resident, the Department's hazardous waste representatives, and the Contractor's hazardous waste transporter to discuss containment, removal, coating and waste disposal. Do not perform any work until the plan is reviewed by the Department.

506.04 Quality Control. Provide a Quality Control Inspector that has successfully completed NACE Coating Inspector Training, Session One, SSPC BCI training or has other inspection experience acceptable to the Resident.

The Quality Control Inspector shall:

- Inspect surface preparation.
- Record coating lot numbers and manufacture date.
- Witness the mixing of the coating.
- Measure and record the environmental conditions in the immediate vicinity of the coating operation.
- Measure and record dry film thickness of each coat.
- Record all Quality Control activity in a format acceptable to the Resident.
- Provide the Department with a copy of all test results and measurements.
- Reject unacceptable work and cause it to be re-done.

506.05 Containment. Meet the requirements of SSPC Guide 6, Table P-Power Tool Cleaning and all state and Federal requirements for the removal and containment of hazardous materials at locations of coating removal.

506.06 Waste Management. The Contractor shall collect, store and dispose of lead paint and related waste in compliance with all Federal, State and local laws and requirements. The procedures used for disposal shall conform to the latest requirements of Steel Structures Painting Council Guide 7, Guide for the Disposal of Lead-Contaminated Surface Preparation Debris. The Contractor shall have a copy of this guide available on site at all times. The Contractor shall also have a copy of the Maine Department of Environmental Protection's (MDEP's) Handbook for Hazardous Waste Generators and a copy of the State of Maine Hazardous Waste Management Rules, 06-096 CMR Chapters 850-857, on site at all times. Thirty days prior to generating any waste, the Contractor shall submit their Waste Management Plan which shall include the Spill Prevention Control and Countermeasure (SPCC) Plan to the Department for review and comment. Emergency procedures to be taken in the event of a release of hazardous/special waste or hazardous matter to the environment shall be part of the SPCC Plan. Work shall not proceed until the Department has formally accepted the Waste Management Plan as being complete.

The Department has "Small Quantity Generator-Plus (SQG-Plus)" hazardous waste status for the hazardous waste activities associated with this Contract, as defined by MDEP in the Handbook for Hazardous Waste Generators. Except for a generation rate and site specific identification number, all requirements associated with SQG-Plus status apply. Given the temporary nature of the work, MDEP has excluded the SQG-Plus generation rate restriction and permanent identification number for these bridge maintenance efforts as long as all other SQG-Plus requirements are fully complied with.

All hazardous waste shall be stored in USDOT approved drums. The waste drums shall be placed in an approved locking structure which has a firm, impervious, floor surface and secondary containment that is either 110% of the largest container or 20% of all containers, whichever is larger. All waste containers must be labeled with the words "Hazardous Waste",

the hazard (e.g., Toxic, Flammable, etc.), the start date, full date, site location and generator information. The lockable container must be labeled "Danger-Unauthorized Personnel Keep Out" and shall be locked at all times when not being accessed. No more than 1,320 pounds and no more than three 55-gallon drums of hazardous waste may be stored at the site at any time. The waste storage locker must be inspected each operating day in accordance with MDEP regulations. The written log shall detail the findings of the daily inspections and it must be maintained by the Contractor and provided to the Department at the end of the project. The Contractor shall store all hazardous waste, in conformance with all other MDEP and Federal Rules, including Chapter 851, Section 13, Part C(7)(i) and 40 CFR 2674.14. Hazardous wastes are limited to an on-site storage time of 180 days following the filling of a drum.

Hazardous/special paint debris and other waste shall not be placed or accumulated on unprotected ground or released to waters of the State. Work areas shall be adequately shielded at all times to prevent dispersion of debris by wind or rain. All of the Contractor's equipment and storage areas used for the handling and storage of hazardous waste, special wastes and hazardous materials shall have impervious tarps placed under them. Any evidence of improper storage and handling shall be cause for immediate suspension of work in progress and work will not be allowed until corrective actions are taken.

All paint-related waste material generated as part of this initiative must be managed as a hazardous waste. Management of the remaining waste materials will depend on the results of laboratory testing. The Contractor may assume these wastes are hazardous or may test the debris (including personal protective equipment, gray water, etc.) to determine the appropriate disposal options. The Department must be notified at least one week in advance of the date of sampling activities and provided the proposed protocol for sample collection. The Department shall witness the sampling. Chain-of-custody must be adhered to for sample removal. Certified laboratory test results shall be provided to the Department upon receipt by the Contractor.

The Contractor shall inform the Department at least three days in advance of planned date(s) for removal of hazardous waste from the job site. The Department shall obtain a provisional Environmental Protection Agency Identification Number prior to shipping any hazardous waste for disposal. This provisional number must be used by the Contractor to ship hazardous waste off site. The Contractor shall secure a MaineDOT approved transporter (e.g., Enpro Services, Inc., or Environmental Products, Inc.) licensed by MDEP for transportation of hazardous waste. Preparation of all necessary forms is the responsibility of the Contractor. The Hazardous Waste Manifest must be approved and signed by the Department. A multi-part, pre-numbered Uniform Hazardous Waste Manifest (EPA Form 8700-22) shall be prepared when shipping hazardous waste. The appropriate original sheets of the multi-part hazardous waste manifest must be provided to the Department and must be sent to the Department's Supervisor of Groundwater and Hazardous Waste Management, Environmental Office, State House Station #16, Augusta, Maine, 04330.

Failure of the Contractor to comply with this section shall result in the following:

- First finding of non-conformity shall be a written warning which will include deadline for compliance.
- Second finding of non-conformity shall be documented in writing, and all operations by the Contractor, except those needed to restore compliance, will be immediately suspended, until full compliance has been restored.
- Third and subsequent findings of non-conformity will be documented in writing and all operations shall be immediately suspended, except those needed to restore compliance, until full compliance has been fully restored, and the Contractor assessed a penalty of \$10,000.00 per incident. If the Contractor fails to restore the Project into compliance, additional fines shall be assessed.

All penalties assessed shall be in addition to any fines assessed by MDEP/EPA for failing to comply with the Federal, State, or local regulations. The Contractor shall not be granted additional time for suspensions of work due to noncompliance.

506.07 Surface Preparation. After welding and/or bolting, prepare the surfaces to a minimum of SSPC-SP 11-Power Tool Cleaning to Bare Metal. Develop an anchor profile that corresponds with the requirements of the primer coat manufacturer's product data sheet. For repair areas, clean the steel six inches in all directions from the weldment or 1 inch in all directions from any bolting. For areas to be cover plated, clean the edges and outside three inches of the bottom flange. Clean the full width of the flange at the end row of cover plate bolts. Use SSPC VIS 3-Visual Standard for Power-and Hand-Tool Cleaning to evaluate the cleanliness of the steel. Measure the anchor profile using ASTM D 4417 Method C (replica tape). Measure the anchor profile on each plane to be coated. If the results are consistent the Resident may require a reduced level of measurement, however, not less than one measurement at each end of a repair piece.

The faying surface between the existing flange and the cover plate shall meet Class B requirements. The coating for faying surfaces of slip critical connections shall be an organic zinc-rich primer. The primer shall meet Class B (0.5 or greater) slip coefficient requirements of the Research Council on Structural Connections' Specification for Structural Joints Using ASTM A325 or A490 Bolts. The slip coefficient shall be verified by testing according to the Testing Method to Determine the Slip Coefficient of Coatings Used in Bolted Connections' Specification for Structural Joints Using ASTM A325 or A490 Bolts, Appendix A. Prior to coating, the contractor fabricator shall furnish the Engineer with the certification of testing showing that the primer meets Class B slip coefficient.

506.08 Application. Apply the coating using brushes, rollers or other methods acceptable to the Resident. Do not spray the coating in the field, only shop applied coating may be sprayed.

Single component coatings may be opened and re-sealed as long as the remaining coating has not begun to degrade or cure in the container.

Two-component kits may be split if the components are measured in the proper proportions by mass using a calibrated scale and the measuring and mixing are witnessed by the Resident and Quality Control Inspector. The proportions shall be provided on a company letterhead by the coating manufacturer.

Apply the coating after the Quality Control Inspector has measured and recorded the environmental conditions in the immediate vicinity of the work and has given permission to begin coating.

Cure the coating for the maximum amount of time specified for the minimum temperature encountered during the cure cycle. The environmental conditions recorded at the nearest airport may be used to settle disputes between the Department and the Contractor.

Advise the Resident when dry film thicknesses are measured in order that the Resident may witness the measurements. Do not remove the access to the work area until the Work has been completed and accepted by the Quality Control Inspector.

506.09 Touch-up and Repairs Repair damaged or unacceptable shop coating before the piece is removed from the paint area in the shop. Damaged areas shall be prepared in accordance with the manufacturer's published instructions. Damaged or unacceptable coatings shall be repaired using the same coating system. Environmental conditions, cure times and DFTs shall be in accordance with manufacturer's published data sheets. Repairs to topcoat shall result in a uniform gloss and color match. The Fabrication Engineer shall have final authority concerning acceptable appearance.

Touch-up and repairs of damaged coating at the bridge site shall be done in accordance with the manufacturer's published instructions. Prepare areas to be touched-up/repared in a manner that assures the proper adhesion of each coat. Each existing coat shall be feathered back to assure that each touch-up/repair coat is continuous with each corresponding existing coat. The topcoat shall be smooth and uniform in appearance.

Payment for all touch-up and repairs shall be incidental to the Work.

506.10 Method of Measurement.

Surface Preparation of Existing and New Structural Steel shall be measured for payment as one lump sum, complete and accepted.

Field Painting of Existing and New Structural Steel shall be measured for payment as one lump sum, complete and accepted.

Containment and Pollution Control Measures shall be measured for payment as one lump sum, complete and accepted.

Disposal of Special Waste or Hazardous Waste materials shall be measured for payment as one lump sum.

506.11 Basis of Payment.

The accepted quantity of Surface Preparation of Existing and New Structural Steel will be paid at the respective Contract lump sum price, which shall be full compensation for furnishing all materials, labor, tools, equipment, scaffolding, QC inspections, and any other incidentals necessary for the satisfactory performance of the work.

The accepted quantity of Field Painting of Existing and New Structural Steel will be paid at the Contract lump sum price, which shall be full compensation for furnishing all material, labor, equipment, scaffolding and incidentals necessary for the satisfactory performance of the work.

Containment and pollution control will be paid for at the Contract lump sum price, which price shall be compensation for furnishing all materials, labor, equipment, and incidentals necessary for the satisfactory performance of the work.

Disposal of Special Waste or Hazardous Waste materials will be paid at the Contract lump sum price, which price shall be full compensation for all permits, tests, transportation, tipping fees and incidentals necessary for the satisfactory performance of the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
506.142 Field Painting of Existing Structural Steel	LS
506.144 Field Painting of New and Existing Structural Steel	LS
506.17 Surface Preparation of New and Existing Structural Steel	LS
506.18 Containment and Pollution Control Measures	LS
506.191 Disposal of Special Waste or Hazardous Waste Material	LS
506.30 Shop Coating of Structural Steel	LS