



## Wisconsin Department of Transportation

November 4, 2021

Division of Transportation Systems  
Development  
Bureau of Project Development  
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Madison, WI 53705

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### NOTICE TO ALL CONTRACTORS:

**Proposal #10: 2365-07-70, WISC 2022008**  
**W Grange Avenue**  
**Bridge Over CP RR B-40-0500**  
**Local Street**  
**Milwaukee County**

### Letting of November 9, 2021

This is Addendum No. 02, which provides for the following:

#### Special Provisions:

Added Special Provisions	
Article No.	Description
42	Preparation and Coating of Bottom Flanges B-40-500, Item SPV.0090.545

#### Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0090.545	Preparation and Coating of Bottom Flanges B-40-500	LF	0	840	840

#### Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
85	Structure B-40-500 Estimate of Quantities

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

## **ADDENDUM NO. 02**

**2365-07-70**

**November 4, 2021**

### **Special Provisions**

#### **42. Preparation and Coating of Bottom Flanges B-40-500, Item SPV.0090.545.**

##### **A Description**

This special provision describes thoroughly cleaning and coating the bottom flanges of the girders in Span 2 prior to painting. This special provision incorporates the requirements for SSPC-SP 15, Commercial Grade Power Tool Cleaning to provide a cleaned steel surface.

##### **A.1 Areas to be Cleaned and Painted Structure B-40-500**

1. Bottom flanges of girders in the Span 2. Includes underside of bottom flange, vertical edges of bottom flange, lower moment plates, lower splice plates, nuts and bolts.
2. Total metal surface area of:

Structure B-40-500, 1120 SF.

##### **B Materials**

###### **B.1 Coating System**

Furnish a complete coating system from the department's approved list for "Structure Repainting Recycle Abrasive Structure". The color of the finish coating material shall match the color number the plans show according to Federal Standard Number 595. Supply the engineer with the product data sheets for approval before any coating is applied. The product data sheets shall indicate the mixing and thinning directions, the recommended spray nozzles and pressures, and the minimum drying time between coats.

The color of the primer must be such that a definite contrast between it and the color of the blasted steel is readily apparent. There shall be a color contrast between all subsequent coats for the paint system selected. Submit color samples of the primer and all coats to the engineer for approval before any application of paint.

##### **C Construction**

Before power tool cleaning, solvent clean all surfaces to be coated according to SSPC-SP1.

All metal surfaces must be power tool cleaned according to SSPC-SP15 and verified before painting.

A commercial grade power tool cleaned steel surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, rust, coating, oxides, mill scale, corrosion products, and other foreign matter, except as noted.

Random staining shall be limited to no more than 33 percent of each unit area of surface as defined. Staining may consist of light shadows, slight streaks, or minor discolorations caused by stains of rust, stains of mill scale, or stains of previously applied coating. Slight residues of rust and paint may also be left in the bottoms of pits if the original surface is pitted.

This standard requires a high degree of surface cleanliness and a minimum surface profile of 25 micrometers (1.0 mil) will be retained or produced.

###### **C.1 Surface Preparation**

Remove all abrasive or paint residue from steel surfaces with a High Efficiency Particulate Abatement (HEPA-VAC) vacuum cleaner equipped with a brush-type cleaning tool, or by double blowing. If the double blowing method is used, vacuum the exposed top surfaces of all structural steel, including flanges, longitudinal stiffeners, splices, plates, and hangers, after the double blowing operations are completed. The

air line used for blowing the steel clean shall have an inline water trap and the air shall be free of oil and water as it leaves the air line.

Take care to protect freshly coated surfaces from subsequent blast cleaning or power tool cleaning operations. Thoroughly wire brush damaged primed surfaces with a non-rusting tool or if visible rust occurs, re-tool clean to original surface condition. Clean and re-prime the brushed surfaces according to this specification.

## C.2 Painting

Apply paint according to the manufacturer's recommendations in a neat workmanlike manner. Paint application shall normally be by airless spray or inaccessible areas by brush, roller or other methods approved by the engineer.

The engineer may allow the use of conventional spray equipment after satisfactory demonstration by the contractor of the proper application technique and handling of equipment.

Mix the paint or coatings according to the manufacturer's directions to a smooth lump-free consistency. Keep paint thoroughly mixed during the painting application.

After the inspector approves the entire cleaned surface to be coated, apply a prime coat uniformly to the entire surface. Either before or after applying the prime coat, brush or spray a stripe coat of primer on all plate edges, bolt heads, nuts, and washers. Apply succeeding coats as the product data sheet shows.

Remove all dry spray by vacuuming, wiping, or sanding if necessary.

If the application of the coating at the required thickness in one coat produces runs, bubbles, or sags; apply a "mist-coating" in multiple passes of the spray gun; separate the passes by several minutes. Where excessive coating thickness produces "mud-cracking", remove such coating back to soundly bonded coating and re-coat the area to the required thickness.

The resultant paint film shall be smooth and uniform, without skips or areas of excessive paint in accordance with SSPC PA1.

The coating is supplied for normal use without thinning. If in cool weather it is necessary to thin the coating for proper application, thin according to the manufacturer's recommendations.

During surface preparation and coating application the ambient and steel temperature shall be between 39 degrees F and 100 degrees F. The steel temperature shall be at least 5 degrees F above the dew point temperature. (This requires the steel to be dry and free of any condensation or ice regardless of the actual temperature of the steel.) The relative humidity shall not exceed 85%. The manufacturer's ambient condition requirements must be followed if they are more stringent.

Paint thickness shall be within the requirements for a three coat paint system listed in the department's approved list for Structure Repainting Recycle Abrasive Structure and the paint system being used.

Time to recoat shall be according to the manufacturer's recommendations.

The dry film thickness will be determined by use of a magnetic film thickness gage. The gage shall be calibrated for dry film thickness measurement according to SSPC-PA 2. Dry film thickness in each area measured will be based on an average of three gage readings, after calibration of the gage to account for surface profile of the bare steel as a result of surface preparation.

## D Measurement

The department will measure Preparation and Coating of Bottom Flanges B-40-500 per linear foot (LF).

## E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.545	Preparation and Coating of Bottom Flanges B-40-500	LF

Payment is full compensation for preparing and cleaning the designated surfaces; furnishing and applying the paint; and for providing the listed equipment.

**Schedule of Items**

Attached, dated November 4, 2021, are the revised Schedule of Items Page 7.

**Plan Sheets**

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 85

END OF ADDENDUM





## Proposal Schedule of Items

Page 7 of 7

**Proposal ID:** 20211109010    **Project(s):** 2365-07-70**Federal ID(s):** WISC 2022008**SECTION:** 0001

Roadway Items

**Alt Set ID:****Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0182	SPV.0060 Special 400. Underdeck Utility Structure B-40-500, City of Milwaukee Communications	1.000 EACH	_____.	_____.
0184	SPV.0060 Special 425. Installing Conduit into Existing Manhole	2.000 EACH	_____.	_____.
0186	SPV.0060 Special 501. Bearing Maintenance	1.000 EACH	_____.	_____.
0188	SPV.0060 Special 590. AT&T Communications Duct Protection B-40-500	1.000 EACH	_____.	_____.
0190	SPV.0090 Special 002. Construction Staking Concrete Sidewalk	1,513.000 LF	_____.	_____.
0192	SPV.0090 Special 306. Cable Type 3#6/1#8 XLPE Type USE-2 Electrical Cable	800.000 LF	_____.	_____.
0194	SPV.0090 Special 308. Cable Type 3#2/1#8 XLPE Type USE-2 Electrical Cable	500.000 LF	_____.	_____.
0196	SPV.0090 Special 311. 2#12UF W/Ground (Internal Riser Cable Per Luminaire)	310.000 LF	_____.	_____.
0198	SPV.0090 Special 413. 3-Duct Conduit Cement Encased 3 Inch DB-60	138.000 LF	_____.	_____.
0200	SPV.0180 Special 001. Joint Sealing	545.000 SY	_____.	_____.
0202	SPV.0090 Special 545. Preparation And Coating Of Bottom Flanges B-40-500	840.000 LF	_____.	_____.

**Section:** 0001**Total:** \_\_\_\_\_.**Total Bid:** \_\_\_\_\_.