



Wisconsin Department of Transportation

January 5, 2017

Division of Transportation Systems Development

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NOTICE TO ALL CONTRACTORS:

**Proposal: #07: 3766-00-70, WISC 2017 006
CTH E
Bridge over Pike River (B-30-0137)
CTH E
Kenosha County**

Letting Date: January 10, 2017

This is Addendum No. 01, which provides for the following:

Special Provisions

Added Special Provisions	
Article No.	Description
17	Railing Steel Type C3 B-30-0137

Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
8	Erosion Control Sheet (removed "Pipe Grate Required" note)

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. 01

3766-00-70

January 5, 2017

Special Provisions

17. Railing Steel Type C3 B-30-0137.

A Description

This special provision describes fabricating, galvanizing, coating and installing railing in accordance with standard spec 506, 513 and 517 and the plan details, as directed by the engineer, and as hereinafter provided.

B Materials

All materials for railing shall be new stock, free from defects impairing strength, durability and appearance. Galvanize and coat railing assemblies with a two-coat system. Bubbles, blisters and flaking in the coating will be a basis for rejection.

B1 Coating System

B1.1 Galvanizing

Fabricate railings to meet the requirements of ASTM A385. After fabrication, blast clean steel railing assemblies per SSPC-SP6 and galvanize according to ASTM A123. Drill vent holes in members as required to facilitate galvanizing and drainage. Show location and size of vent holes on the shop drawings. Remove all burrs at component edges, corners and at holes and chamfer sharp edges before galvanizing. Condition any thermal cut edges before blast cleaning by shallow grinding or other cleaning to remove any hardened surface layer. Remove all evident steel defects exposed in accordance to AASHTO M 160 prior to blast cleaning. Lumps, projections, globules, or heavy deposits of galvanizing, which will provide surface conditions that when coated will produce unacceptable aesthetic and/or visual qualities, will not be permitted. Water quenching and chromate or other passivating treatments will not be permitted.

B1.2 Two Coat System

After galvanizing, coat all exterior surfaces of steel railing assemblies and inside of rail elements at field erection and expansion joints with a two coat system as hereinafter provided.

Clean all galvanized surfaces to be coated per SSPC-SP1 to remove chlorides, sulfates, zinc salts, oil, dirt, organic matter and other contaminants. Brush blast clean the cleaned surface per SSPC-SP16 to create a slight angular surface profile per manufacturer's recommendation (1 mil minimum, 1.5 mils maximum) for adhesion of the tie coat. Remove wet storage stains prior to blasting per SSPC-SP16. Perform brush blasting at an angle of 30 to 60 degrees to the surface using air pressure no greater than 50 psi, and a soft abrasive such as Garnet. Steel shot and angular iron blasting grit will not be permitted. Brush blast the surface to produce a matte silver appearance. When brush blasting do not fracture the galvanized finish or remove any dry film thickness. Prior to application of the tie-coat, remove visible deposits of oil, grease and other contaminants from the surface per SSPC-SP1, and clean the brush blasted surface of dust, dirt and loose residue in accordance to standard spec 517.

After cleaning and within 8 hours of blasting, apply a tie coat from an approved coating system that is specifically intended to be used on a galvanized surface, per manufacturer's recommendations. The tie coat shall etch the galvanized rail and prepare the surface for the top coat. Apply a top coat per manufacturer's recommendations, matching the specified color shown on the plans. Use an approved top coat that is resistant to the effects of the sun and is suitable for a marine environment. The tie and top coats should be of contrasting colors, and come from the same manufacturer.

Ensure that the coating manufacturer reviews the process to be used for surface preparation and application of the coating system with the coating applier. The review shall include a visit to the facility performing the work if requested by the coating manufacturer. Provide written confirmation, from the coating manufacturer to the engineer, that the review has taken place and that issues raised have been addressed before beginning coating work under the contract.

Use one of the qualified coating manufacturers and products given below. An equivalent system may be used with the written approval of the engineer.

Manufacturer	Coat	Products	Dry Film Minimum Thickness (mils)	Min. Time¹ Between Coats (hours)
<u>Sherwin Williams</u> 1051 Perimeter Drive Suite 710 Schaumburg, IL 60173 847-330-1562	Tie	Recoatable Epoxy Primer B67-5 Series / B67V5	2.0 to 4.0	6
	Tie	Macropoxy 646		
<u>Carboline</u> 350 Hanley Industrial St. Louis, MO 63144 314-644-1000	Top	Acrolon 218 HS Polyurethane, B65-650	2.0 to 4.0	NA
	Tie	Rustbond Penetrating Sealer FC	1	36
	Tie	Carboguard 60	4.0 to 6.0	10
	Tie	Carboguard 635	4.0 to 6.0	1
<u>Wasser Corporation</u> 4118 B Place NW Suite B Auburn, WA 98001 253-850-2967	Top	Carbothane 133 LH(satin)	4	NA
	Tie	MC-Ferrox B 100	3.0 to 5.0	8
<u>PPG Protective and Marine Coatings</u> P.O. Box 192610 Little Rock, AR 72219-2610 414-339-5084	Top	MC-Luster 100	2.0 to 4.0	NA
	Tie	Amercoat 399	3.0 to 5.0	3
	Top	Amercoat 450H	2.0 to 4.0	NA

¹ Time is dependent on temperature and humidity. Contact manufacturer for more specific information.

B2 Shop Drawings

Submit shop drawings showing the details of railing construction. Show the railing height post spacing, rail location, weld sizes and locations and all dimensions necessary for the construction of the railing. Show location of shop rail splices, field erection joints and expansion joints. State the name of the coating manufacturer and the product name of the tie coat and top coat used along with the color. State the size and material type used for all components. Also show the size and location of any vent or drainage holes provided.

C Construction

C1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, thoroughly inspect all materials to ensure that no damage occurred during shipping or handling and conditions of materials is in conformance with these specifications. Handle coated railing in accordance to

standard spec 517. If coating is damaged, repair or replace railing assemblies to the approval of the engineer at no additional cost to the owner. Carefully store the material off the ground to ensure proper ventilation and drainage. Exercise care so as not to damage the coated surface during railing installation. No field welding, field cutting or drilling will be permitted without the approval of the engineer.

C2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to coated surfaces, touch-up the surface in conformance with the manufacturer's recommendations and conforming to ASTM A780. If damage is excessive, replace the railing assembly at no additional cost to the owner. Provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

Plan Sheets

The following 8 ½ x 11-inch sheets are attached and made part of the plans for this proposal:

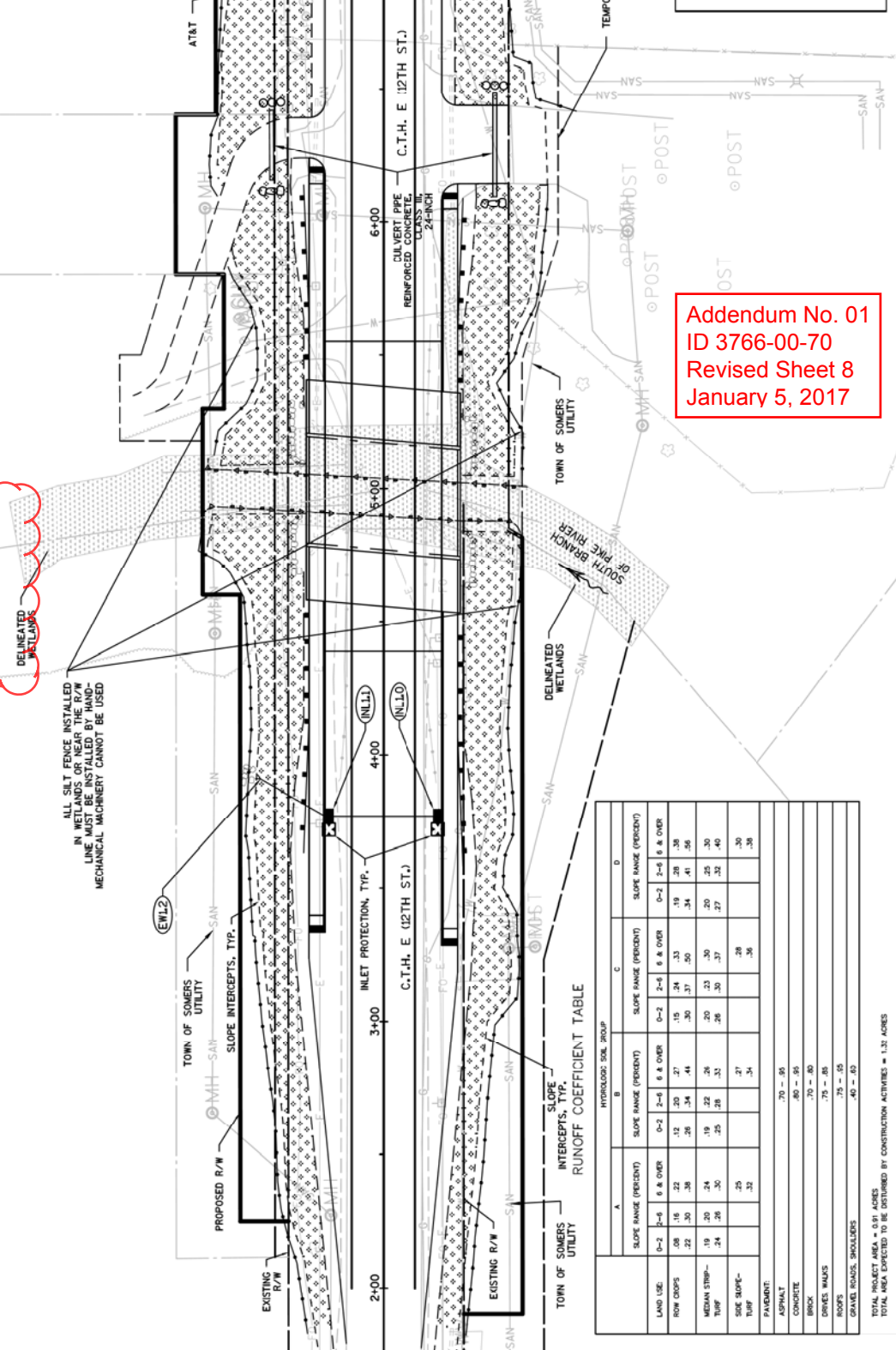
Revised: 8

END OF ADDENDUM

SCALE, FEET



STATION		OFFSET		STRUCTURE		COVER TYPE		STRUCTURE		STRUCTURE DEPTH (FEET)		DISCHARGE PIPE		DRAINS TO		DOWNSTREAM DISCHARGE ELEVATION	
NO.	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	SIZE (INCHES)	DISTANCE (FEET)	PIPE CLASS	PIPE CLASS	ELEVATION
INLLO	3+77.12		RT	22.00			H	243-FT	H	666.60	664.60	663.60	12	44.0	0.50	III	663.38
INLLI	3+77.12		LT	-22.00			H	3-FT DIAM	H	666.60	664.38	663.13	15	27.8	0.48	III	663.00
EWL2	3+90.86		LT	-46.15			LT	ENDWALL			663.00						



Addendum No. 01
ID 3766-00-70
Revised Sheet 8
January 5, 2017

HYDROLOG: SOIL GROUP

LAND USE	A			B			C			D		
	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	SLOPE RANGE (PERCENT)	
ROW GROUPS	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
MEDIAN STRIP-TURF	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
DRIVE WALKS	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
GRAVEL ROADS SHOULDER	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
PAVEMENT	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
ASPHALT	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
CONCRETE	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
BRICK	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
DRIVE WALKS	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
ROOFS	0.8	1.6	2.2	1.2	2.0	2.7	1.5	2.4	3.3	1.9	2.9	3.9
TOTAL AREA = 511 ACRES												
TOTAL AREA SURVEYED TO BE OBTAINED BY CONSTRUCTION ACTIVITIES = 1.31 ACRES												

LEGEND

[Symbol]	EROSION MAT URBAN, CLASS I, TYPE A
[Symbol]	RIIP RAP OR STONE DITCH CHECK
[Symbol]	SILT FENCE
[Symbol]	ENHANCED TURBIDITY BARRIER
[Symbol]	SLOPE INTERCEPT
[Symbol]	CULVERT PIPE CHECK
[Symbol]	INLET PROTECTION
[Symbol]	TEMPORARY LIMITED EASEMENT

