



Wisconsin Department of Transportation

April 13, 2017

Division of Transportation Systems Development

Bureau of Project Development
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NOTICE TO ALL CONTRACTORS:

Proposal #06: 1060-21-71, WISC 2017 264
East West Freeway
West Waukesha County Line To STH 16
IH 94
Waukesha County

Letting of May 9, 2017

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

Special Provisions:

Added Special Provisions	
Article No.	Description
20	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch, Item 646.0842.S

Deleted Special Provisions	
Article No.	Description
16	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch, Item 646.2304.S

Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch, Item 646.0842.S	LF	0	44,070	44,070

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch, Item 646.2304.S	LF	44,070	-44,070	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
15	Miscellaneous Quantities sheet, with title Pavement Marking needs "Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch, with Item 646.0842.S"

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

1060-21-71

April 13, 2017

Special Provisions

16. DELETED

20. Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch, Item 646.0842.S.

A Description

This special provision describes furnishing, grooving, and installing wet reflective epoxy pavement marking as shown on the plans, in accordance with standard spec 646, and as hereinafter provided.

B Materials

Furnish a 20 mils application of modified epoxy binder pavement marking, from the Wisconsin's Approved Products List, in a grooved slot. Provide a double drop system of 5.3 pounds per gallon of wet reflective elements from Wisconsin's Approved Products List and Utah Performance beads mixture at a drop rate of 12-22 pounds per gallon.

Replace standard spec 646.2.3 (1) with the following:

Furnish Utah Performance beads with the following gradation:

Utah Bead Gradation

US Mesh	Percent Passing (ASTM D1214)
18	65-80
20	
25	
30	30-50
40	
50	0-5

Beads **shall** achieve a minimum of 275 mcd (dry reading), initial for white and 180 mcd (dry reading) for yellow.

C Construction

C.1 General

For quality assurance, provide the project engineer and the region's Marking Section evidence of manufacturer training in the proper placement and installation of the grooved wet reflective epoxy.

Plane the grooved lines in accordance with details in the plan. Use grooving equipment with a free-floating, independent cutting or grinding head. Plane a minimum number of passes to create a smooth groove. Remove lane line and center line pavement markings during the grooving process.

C.2 Groove Depth

Cut the groove to a depth of 80 mils \pm 10 mils from the pavement surface. The department may periodically check groove depths.

C.4 Groove Width – Longitudinal Markings

Cut the groove 1 inch wider than the width of the pavement marking.

C.5 Groove Position

Position the groove edge in accordance with Standard Detail Drawing Pavement Marking (Mainline). If necessary, groove a minimum of 4 inches from both ends of the pavement marking segment. Achieve straight alignment with the grooving equipment.

C.6 Groove Cleaning

C.6.1 Concrete

Cooling the cutting head with water may be necessary for some applications and equipment. If cooling water is necessary, flush the groove immediately with high-pressure water after cutting to remove any build-up of cement dust and water slurry. If this is not done, the slurry may harden in the groove.

If water is used in the grooving process, allow the groove to dry a minimum of 24 hours after groove cleaning, and prior to pavement marking application. The groove surface shall be clean and dry before applying the marking. Use a high-pressure air blower with at least 185 ft³/min air flow and 120 psi air pressure to clean the groove.

C. 6.2 Asphalt

Groove pavement five or more days after paving.

If opening to traffic an asphalt lane that is not grooved, place temporary pavement marking. For asphalt lanes not open to traffic, temporary pavement marking is not required.

Check for structural integrity in supporting grooving operations. If the structural integrity of the asphalt pavement is inadequate to support grooving operations, immediately notify the engineer.

Use a high-pressure air blower with at least 185 ft³/min air flow and 90 psi air pressure to clean the groove.

D Measurement

The department will measure Pavement Marking Grooved Wet Reflective Epoxy (width) bid items by the linear foot of line, acceptably completed.

The department will measure Pavement Marking Grooved Contrast Wet Reflective Epoxy (width) bid items by the linear foot of line, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	LF

Payment is full compensation for cleaning and preparing the pavement surface; furnishing and installing the epoxy, 3M elements and beads; and for removing existing or temporary marking, if necessary.

stp-646-024 (20161130)

Schedule of Items

Attached, dated April 13, are the revised Schedule of Items Pages 1 – 3.

Plan Sheets

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

Revised: 15

Addendum No. 01
ID 1060-21-71
Revised Sheet 15
April 13, 2017

PAVEMENT MARKING		646.0106		646.0128		646.0842.S	
PAVEMENT MARKING		PAVEMENT MARKING EPOXY 4-INCH		PAVEMENT MARKING EPOXY 8-INCH		PAVEMENT MARKING GROOVED REFLECTIVE EPOXY 4-INCH	
ROADWAY	MILE MARKER	EDGE LINE WHITE LF	EDGE LINE YELLOW LF	GORE OUTER WHITE LF	L ANELINE WHITE LF		
IH 94 EB	278.7	18,650	18,650	-	4,663		
	282.2	288	5,025	-	1,256		
	288	290.8	18,850	-	4,713		
	291.2	294.4	17,800	-	8,900		
IH 94 WB	294.4	290.8	18,650	-	4,663		
	290.8	287.2	5,025	-	1,256		
	287.2	282.2	18,850	-	4,713		
	282.2	280.6	17,800	-	8,900		
RAMPS	STH 67	-	-	4880	-		
	CTH P/Sawyer Rd	-	-	2740	-		
	CTH C/Kettle Moraine	-	-	2550	-		
	STH 83	-	-	3,380	-		
	STH SS	-	-	3790	-		
	CTH G/CTH TT	-	-	3240	-		
	CTH T	-	-	3440	-		
	STH 16	-	-	1,610	-		
UNDISTRIBUTED		12,000	12,000	-	5,000		
TOTAL		132,650	263,900	25,630	44,070		
GRAND TOTAL							

TRAFFIC CONTROL		643.0300		643.0420		643.0715		643.0800		643.0900		643.1050		643.1000		
TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL BARRICADE TYPE		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL WARNING LIGHTS TYPE C		TRAFFIC CONTROL ARROW BOARDS		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL SIGNS POMS		TRAFFIC CONTROL SIGNS FIXED MESSAGES		
ROADWAY	MILE MARKER	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	
IH 94 EB	278.7	2,760	3	36	6	72	17	204	2	24	11	132	-	-	1, (12'x8')	
	282.2	1,140	3	36	6	72	17	204	2	24	11	132	-	-	1, (12'x8')	
	288	2,700	3	36	6	72	17	204	2	24	11	132	-	-	-	
	291.2	3,120	6	72	12	144	34	408	3	36	15	180	-	-	-	
IH 94 WB	294.4	2,760	3	36	6	72	17	204	2	24	11	132	-	-	1, (12'x8')	
	290.8	1,140	3	36	6	72	17	204	2	24	11	132	-	-	1, (12'x8')	
	287.2	2,700	3	36	6	72	17	204	2	24	11	132	-	-	-	
	282.2	3,120	6	72	12	144	34	408	3	36	15	180	-	-	-	
ON RAMPS	364	4,368	84	1,008	168	2,016	168	2,016	0	0	196	2,352	-	-	-	
OFF RAMPS	364	4,368	84	1,008	168	2,016	112	1,344	0	0	168	2,016	-	-	-	
UNDISTRIBUTED		28,176		2,376	4,752	5,400	216	5,400	4	120	2, (12'x2.5')	12	300	684		
TOTAL																

NOTE:
1. *-FOR INFORMATION ONLY
2. CATEGORY IS 1000



Proposal Schedule of Items

Proposal ID: 20170509006 Project(s): 1060-21-71

Federal ID(s): WISC 2017264

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0010	204.0120 Removing Asphaltic Surface Milling	5,094.000 SY	_____.	_____.
0020	213.0100 Finishing Roadway (project) 0001. 1060-21-71	1.000 EACH	_____.	_____.
0030	416.0610 Drilled Tie Bars	3,394.000 EACH	_____.	_____.
0040	416.0620 Drilled Dowel Bars	8,280.000 EACH	_____.	_____.
0050	416.1715 Concrete Pavement Repair SHES	4,908.000 SY	_____.	_____.
0060	416.1725 Concrete Pavement Replacement SHES	197.000 SY	_____.	_____.
0070	450.4000 HMA Cold Weather Paving	988.000 TON	_____.	_____.
0080	455.0605 Tack Coat	510.000 GAL	_____.	_____.
0090	460.8624 HMA Pavement 4 SMA 58-28 V	611.000 TON	_____.	_____.
0100	495.1000.S Cold patch	50.000 TON	_____.	_____.
0110	619.1000 Mobilization	1.000 EACH	_____.	_____.
0120	628.1905 Mobilizations Erosion Control	2.000 EACH	_____.	_____.
0130	628.1910 Mobilizations Emergency Erosion Control	2.000 EACH	_____.	_____.
0140	628.7020 Inlet Protection Type D	50.000 EACH	_____.	_____.
0150	643.0100 Traffic Control (project) 0001. 1060-21-71	1.000 EACH	_____.	_____.
0160	643.0300 Traffic Control Drums	28,176.000 DAY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20170509006 Project(s): 1060-21-71
Federal ID(s): WISC 2017264

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Table with 5 columns: Proposal Line Number, Item ID Description, Approximate Quantity and Units, Unit Price, Bid Amount. Rows include items like Traffic Control Barricades, Warning Lights, Arrow Boards, Signs, Pavement Marking, and Training.



Proposal Schedule of Items

Proposal ID: 20170509006 Project(s): 1060-21-71
Federal ID(s): WISC 2017264

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0330	646.0842.S Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	44,070.000 LF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.