

# Wisconsin Department of Transportation

November 2, 2016

## Division of Transportation Systems Development

Bureau of Project Development  
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### NOTICE TO ALL CONTRACTORS:

**Proposal #17:** 1050-01-61, WISC 2016 416  
 Chippewa Falls - Cadott  
 Stillson Creek to 320th Street (WB)  
 STH 29  
 Chippewa County

**1052-01-62, WISC 2016 417**  
 Chippewa Falls - Cadott  
 Stillson Creek to 320th Street (EB)  
 STH 29  
 Chippewa County

### Letting of November 8, 2016

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

#### Special Provisions

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress.
4	Lane Rental Fee Assessment.
34	HMA Pavement 4 LT 58-28 S 3.0% Va Regression Special, Item SPV.0195.01; HMA Pavement 4 LT 58-34 S 3.0% Va Regression Special, Item SPV.0195.02; HMA Pavement 4 MT 58-28 S 3.0% Va Regression Special, Item SPV.0195.03; HMA Pavement 4 MT 58-34 S 3.0% Va Regression Special, Item SPV.0195.04.

Added Special Provisions	
Article No.	Description
36	HMA Pavement 4 SMA 58-34 H, Item 460.8444.

#### Schedule of Items

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
460.8444	HMA Pavement 4 SMA 58-34 H	Tons	0	50,990	50,990

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0195.05	HMA Pavement 4 SMA 58-34 H 3.0% Va Regression Special	Tons	50,990	-50,990	0

## Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
2	General Notes (change references to 3.0% VA Regression; no longer applies to SMA)
23	Butt Joint Detail (revised 2" to 3")
24	Butt Joint Detail (revised 2" to 3")
97, 98, 99, 100	Revised HMA Pavement 4 SMA 58-34 H item number from SPV to standard bid item

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**  
**1050-01-61, 1052-01-62**  
**November 2, 2016**

**Special Provisions**

**3. Prosecution and Progress.**

*Revise the first paragraph of the Lane Closure Restrictions section:*

Lane closures will be restricted to a work zone length of 4-miles with a minimum gap of 2-miles between work zones and a maximum of two concurrent nonadjacent work zones in each direction on STH 29.

Gaps between work zones are defined as the length of two-lane traffic in the same direction of travel provided. Gaps between work zones measuring longer than 2-miles shall have the preconstruction speed limit posted.

Concurrent work zones in each direction are limited to one side of each STH 29 roadway at a time (i.e. either only the passing lane is closed or only the driving lane is closed at a time in each direction, regardless of the gap distance provided.)

**4. Lane Rental Fee Assessment.**

*Replace Restricted Peak Hours Table with the following:*

<b>Restricted Peak Hours</b>				
	<b>West of STH 27</b>		<b>East of STH 27</b>	
	<b>Eastbound</b>	<b>Westbound</b>	<b>Eastbound</b>	<b>Westbound</b>
Sunday	--	June, July, and August 12:00 PM – 6:00 PM	--	--
Monday	--	--	--	--
Tuesday	--	--	--	--
Wednesday	--	--	--	--
Thursday	--	--	--	--
Friday	July and August 1:00 PM – 6:00 PM	--	--	--
Saturday	--	--	--	--

**34. HMA Pavement 4 LT 58-28 S 3.0% Va Regression Special, Item SPV.0195.01; HMA Pavement 4 LT 58-34 S 3.0% Va Regression Special, Item SPV.0195.02; HMA Pavement 4 MT 58-28 S 3.0% Va Regression Special, Item SPV.0195.03; HMA Pavement 4 MT 58-34 S 3.0% Va Regression Special, Item SPV.0195.04.**

*Replace the entire article to remove the SMA item from this article:*

**A Description**

This special provision describes providing HMA pavement including the binder under a combined bid item along with air void regression as described here within.

Define gradations, traffic levels, and asphaltic binder designation levels as follows:

<u>GRADATIONS (NMAS)</u>		<u>TRAFFIC VOLUME</u>		<u>DESIGNATION LEVEL</u>	
1	37.5 mm	LT	Low	S	Standard
2	25.0 mm	MT	Medium	H	Heavy
3	19.0 mm	HT	High	V	Very Heavy
4	12.5 mm			E	Extremely Heavy
5	9.5 mm				
6	4.75 mm				

Construct HMA pavement of the type the bid item indicates encoded as follows:

3 LT 58-34 S

**Gradation Traffic Binder Designation**

Conform to standard spec 460 as modified in this special provision.

**B Materials**

Add the following to standard spec 460.2:

Design mixtures conforming to tables 460-1 and 460-2 to 4.0% air voids to establish the aggregate structure.

Determine the target JMF Asphalt Binder content for production from the mix design data corresponding to 3.0% air voids (97% Gmm) target at Ndes. The air voids at the design number of gyrations, (Ndes) shall be achieved by the addition of liquid asphalt meeting the contract specifications.

Production shall conform to VMA and Dust to Binder Ratio requirements of table 460-1 and 460-2.

Replace standard spec table 460-1 with the following to change the footnotes to refer to LT and MT mixes instead of E-0.3 and E-3 mixes:

**TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS**

SIEVE	PERCENTS PASSING DESIGNATED SIEVES						
	NOMINAL SIZE						
	37.5 mm (#1)	25.0 mm (#2)	19.0 mm (#3)	12.5 mm (#4)	9.5 mm (#5)	SMA 12.5 mm (#4)	SMA 9.5 mm (#5)
50.0-mm	100						
37.5-mm	90 - 100	100					
25.0-mm	90 max	90 - 100	100				
19.0-mm	___	90 max	90 - 100	100		100	
12.5-mm	___	___	90 max	90 - 100	100	90 - 97	100
9.5-mm	___	___	___	90 max	90 - 100	58 - 72	90 - 100
4.75-mm	___	___	___	___	90 max	25 - 35	35 - 45
2.36-mm	15 - 41	19 - 45	23 - 49	28 - 58	20 - 65	15 - 25	18 - 28
75-µm	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	8.0 - 12.0	10.0 - 14.0
% MINIMUM VMA	11.0	12.0	13.0	14.0 <sup>[1]</sup>	15.0 <sup>[2]</sup>	16.0	17.0

<sup>[1]</sup> 14.5 for LT and MT mixes

<sup>[2]</sup> 15.5 for LT and MT mixes

Replace standard spec table 460-2 with the following to switch from E mixes to LT, MT, and HT mixes; and change the tensile strength ratio requirements to 0.75 without antistripping additive and 0.80 with antistripping additive:

**TABLE 460-2 MIXTURE REQUIREMENTS**

Mixture type	LT	MT	HT	SMA
ESALs x 106 (20 yr design life)	<2.0	2 - <8	>8	> 5 mil
LA Wear (AASHTO T96)				
100 revolutions(max % loss)	13	13	13	13
500 revolutions(max % loss)	50	45	45	40
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12
Freeze/Thaw (AASHTO T103) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM 5821) (one face/2 face, % by count)	65/ __	75 / 60	98 / 90	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40	43	45	45
Sand Equivalency (AASHTO T176, min)	40	40	45	50
Gyratory Compaction				
Gyrations for Nini	6	7	8	8
Gyrations for Ndes	40	75	100	65
Gyrations for Nmax	60	115	160	160
Air Voids, %Va (%Gmm Ndes)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)
% Gmm Nini	<= 91.5 <sup>[1]</sup>	<= 89.0 <sup>[1]</sup>	<= 89.0	___
% Gmm Nmax	<= 98.0	<= 98.0	<= 98.0	___
Dust to Binder Ratio <sup>[2]</sup> (% passing 0.075/Pbe)	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80 <sup>[4] [5]</sup>	65 – 75 <sup>[3] [4]</sup>	65 - 75 <sup>[3] [4]</sup>	70 - 80
Tensile Strength Ratio (TSR) (ASTM 4867)				
no antistripping additive	0.75	0.75	0.75	0.75
with antistripping additive	0.80	0.80	0.80	0.80
Draindown at Production Temperature (%)	___	___	___	0.30

<sup>[1]</sup> The percent maximum density at initial compaction is only a guideline.

<sup>[2]</sup> For a gradation that passes below the boundaries of the caution zone (ref. AASHTO MP3), the dust to binder ratio limits are 0.6 - 1.6.

<sup>[3]</sup> For #5 (9.5mm) and #4 (12.5 mm) nominal maximum size mixtures, the specified VFB range is 70 - 76%.

<sup>[4]</sup> For #2 (25.0mm) nominal maximum size mixes, the specified VFB lower limit is 67%.

<sup>[5]</sup> For #1 (37.5mm) nominal maximum size mixes, the specified VFB lower limit is 67%.

*Replace standard spec 460.2.8.2.1.7 paragraph six with the following to base payment adjustment on the combined bid item unit price:*

- (6) The department will reduce payment for nonconforming QMP HMA mixtures, starting from the stop point to the point when the running average is back inside the warning limits, as follows:

ITEM	PAYMENT FOR MIXTURE <sup>[1] [2]</sup>	
	PRODUCED WITHIN WARNING BANDS	PRODUCED OUTSIDE JMF LIMITS
Gradation	90%	75%
Asphalt Content	85%	75%
Air Voids	70%	50%
VMA	90%	75%

<sup>[1]</sup> For projects or plants where the total production of each mixture design requires less than 4 tests refer to CMM 8-36.

<sup>[2]</sup> Payment is in percent of the contract unit price for the HMA Pavement bid item. The department will reduce pay based on the nonconforming property with lowest percent pay. The department will administer pay reduction under the Nonconforming QMP HMA Mixture administrative item.

Replace standard spec 465.2 with the following:

(1) Under the Asphaltic Surface, Asphaltic Surface Detours, and Asphaltic Surface Patching bid items; submit a mix design. Furnish asphaltic mixture meeting the requirements specified for either type LT or MT mix under 460.2; except the engineer will not require the contractor to conform to the quality management program specified under 460.2.8.

(2) Under the other 465 bid items, the contractor need not submit a mix design. Furnish aggregates mixed with a type AC asphaltic material. Use coarse and fine mineral aggregates uniformly coated and mixed with the asphaltic material in an engineer-approved mixing plant. The contractor may include reclaimed asphaltic pavement materials in the mixture.

### C Construction

Replace standard spec table 460-3 with the following to switch from E mixes to LT, MT, and HT mixes and to increase field density requirements by 1.5% when operating under this HMA Pavement 3.0% Va Regression SPV:

**TABLE 460-3 MINIMUM REQUIRED DENSITY<sup>[1]</sup>**

LOCATION	LAYER	PERCENT OF TARGET MAXIMUM DENSITY		
		MIXTURE TYPE		
		LT AND MT	HT	SMA <sup>[5]</sup>
TRAFFIC LANES <sup>[2]</sup>	LOWER	93.0 <sup>[3]</sup>	93.5 <sup>[4]</sup>	—
	UPPER	93.0	93.5	—
SIDE ROADS, CROSSOVERS, TURN LANES, & RAMPS	LOWER	93.0 <sup>[3]</sup>	93.5 <sup>[4]</sup>	—
	UPPER	93.0	93.5	—
SHOULDERS & APPURTENANCES	LOWER	91.0	91.0	—
	UPPER	92.0	92.0	—

<sup>[1]</sup> The table values are for average lot density. If any individual density test result falls more than 3.0 percent below the minimum required target maximum density, the engineer may investigate the acceptability of that material.

<sup>[2]</sup> Includes parking lanes as determined by the engineer.

<sup>[3]</sup> Minimum reduced by 2.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

- [4] Minimum reduced by 1.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.
- [5] The minimum required densities for SMA mixtures are determined according to CMM 8-15.

Delete standard spec 460.2.8.2.1.5(1) and replace with the following:

(1) Conform to the following control limits for the JMF and warning limits based on a running average of the last 4 data points:

ITEM	JMF LIMITS	WARNING LIMITS
Percent passing given sieve:		
37.5-mm	+/- 6.0	+/- 4.5
25.0-mm	+/- 6.0	+/- 4.5
19.0-mm	+/- 5.5	+/- 4.0
12.5-mm	+/- 5.5	+/- 4.0
9.5-mm	+/- 5.5	+/- 4.0
2.36-mm	+/- 5.0	+/- 4.0
75-µm	+/- 2.0	+/- 1.5
Asphaltic content in percent	- 0.3	- 0.2
Air voids in percent	+ 1.3/-1.0	+ 1.0/-0.7
VMA in percent <sup>[1]</sup>	- 0.5	- 0.2

[1] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in [table 460-1](#).

Delete standard spec 460.2.8.3.1.6(1) and replace with the following:

(1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:

- Va is within a range of 2.0 to 4.3 percent.
- VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.

#### D Measurement

The department will measure HMA Pavement (type) 3.0% Va Regression Special conforming to standard spec 460.4.

#### E Payment

Add the following to standard spec 460.5 to switch from E mixes to LT, MT, and HT mixes; to combine the pavement and binder bid items; and to specify a pay reduction for pavement placed with nonconforming binder:

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0 195.0 1	HMA Pavement 4 LT 58-28 S 3.0% Va Regression Special	TON
SPV.0 195.0 2	HMA Pavement 4 LT 58-34 S 3.0% Va Regression Special	TON
SPV.0	HMA Pavement 4 MT 58-28 S 3.0% Va Regression	TON

195.0	Special	
3		
SPV.0	HMA Pavement 4 MT 58-34 S 3.0% Va Regression	TON
195.0	Special	
4		

Payment is full compensation for providing HMA Pavement including asphaltic binder.

In addition to any pay adjustment under standard spec 460.2.8.2.1.7(6), the department will adjust pay for nonconforming binder under the Nonconforming QMP Asphaltic Material administrative item. The department will deduct 25 percent of the contract unit price of the HMA Pavement bid item per ton of pavement placed with nonconforming PG binder the engineer allows to remain in place.

Delete standard spec 460.5.2.3(1) and replace with the following:

(1) If the lot density is greater than the minimum specified in table 460-3 and all individual air voids test results for that mixture placed during the same day are within 2.5 - 4.0 percent, the department will adjust pay for that lot as follows:

**INCENTIVE PAY ADJUSTMENT FOR HMA PAVEMENT DENSITY**

PERCENT LOT DENSITY ABOVE SPECIFIED MINIMUM	PAY ADJUSTMENT PER TON <sup>(1)</sup>
From -0.4 to 1.0 inclusive	\$0
From 1.1 to 1.8 inclusive	\$0.40
More than 1.8	\$0.80

<sup>(1)</sup> The department will prorate the pay adjustment for a partial lot.

**36. HMA Pavement 4 SMA 58-34 H, Item 460.8444.**

Add the following to standard spec 460.2.1:

(2) Mineral filler, whether fly ash or lime dust, shall be stored moisture free. Prior to and during paving, the plant shall demonstrate to the QV team and project engineer that the mineral filler will be metered out correctly into the asphalt mixture. If irregularities in mineral filler metering and/or clumping are observed, then the plant must stop production and corrective action taken.

Replace standard spec Table 460-2 Mixture Requirements with the following:

Mixture type	SMA
ESALs x 106 (20 yr design life)	-
LA Wear (AASHTO T96)	
100 revolutions(max % loss)	13
500 revolutions(max % loss)	35
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12
Freeze/Thaw (AASHTO T103) (specified counties, max % loss)	18
Fractured Faces (ASTM 5821) (one face/2 face, % by count)	100 / 90
Flat & Elongated (ASTM D4791) (max %, by weight)	20 (3:1 ratio)
Fine Aggregate Angularity	45

(AASHTO T304, method A, min)	
Sand Equivalency (AASHTO T176, min)	50
Gyratory Compaction	
Gyrations for Nini	8
Gyrations for Ndes	65
Gyrations for Nmax	160
Air Voids, %Va (%Gmm Ndes)	4.5 (95.5)
% Gmm Nini	-
% Gmm Nmax	-
Dust to Binder Ratio <sup>[2]</sup> (% passing 0.075/Pbe)	1.2 – 2.0
Voids filled with Binder (VFB or VFA, %)	70 – 80
Tensile Strength Ratio (TSR) (ASTM 4867)	
no antistripping additive	0.70
with antistripping additive	0.75
Draindown at Production Temperature (%)	0.30
Effective Asphalt Content, P <sub>be</sub> min	5.5%

<sup>[1]</sup> The percent maximum density at initial compaction is only a guideline.

*Replace standard spec 460.2.5(2) with the following:*

Control recycled materials used in HMA by evaluating the percent binder replacement, the ratio of recovered binder to the total binder. The maximum allowable percent binder replacement shall not exceed 9.0 percent. Prior to incorporation into the HMA mixture, one hundred (100) percent of the RAS material must be processed to pass the 4.75mm sieve size.

*Delete standard spec 460.2.6(2).*

*Replace standard spec 460.2.8.2.1.5(1) with the following:*

<sup>(1)</sup> Conform to the following control limits for JMF and warning limits based on a running average of the last 4 data points:

ITEM	JMF LIMIT	WARNING LIMITS
Percent passing given sieve:		
37.5-mm	+/- 6.0	+/- 4.5
25.0-mm	+/- 6.0	+/- 4.5
19.0-mm	+/- 5.5	+/- 4.0
12.5-mm	+/- 5.5	+/- 4.0
9.5-mm	+/- 5.5	+/- 4.0
2.36-mm	+/- 5.0	+/- 4.0
75- μm	+/- 2.0	+/- 1.5
Asphaltic content in percent	- 0.3	-0.2
Air voids in percent	+ 1.5 / - 1.3	+ 1.2 / - 1.0
VMA in percent <sup>[1]</sup>	- 0.5	-0.2

<sup>[1]</sup> VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1.

*Add the following to standard spec 460.2.8.2.1.7:*

(9) The four point running average for air voids must contain two or more successive QC tests within the JMF limits and must not contain two or more successive QC tests outside the JMF limits to be considered a conforming material.

*Replace standard spec 460.2.8.3.1.6(1) with the following:*

(1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:

- Va is within a range of 3.2 to 6.0 percent.
- VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.

*Add the following to standard spec 460.2.8.3.1.8:*

Excessive bleeding problems (fat spots) are considered as unacceptable material, and shall be corrected or removed, per engineer review, at no additional expense to the department.

*Add the following to standard spec 460.5.2.1:*

For material that does not meet the definition of 460.2.8.2.1.7(9) for conforming material, the department will pay 80% of the contract price for the material from the point where the first QC test is outside the JMF limits until another QC test is within the JMF limits.

*Add the following to CMM 8-36.4:*

For the QC testing, SMA volumetric testing for bulk specific gravity ( $G_{mb}$ ) and maximum specific gravity ( $G_{mm}$ ) will be doubled to help reduce testing variability. Sample sizes shall be large enough to allow for four (4)  $G_{mb}$  and two (2)  $G_{mm}$  specimens for both the QC and the QV testing. Oven temperatures shall be set to 310 degrees Fahrenheit.

A 250 pound sample will be required for testing. The QC sample will consist of a QC, QC-retained, CA, and waste. The QV sample will consist of a QV, QV-retained, and two waste. Procedures for sample splitting shall be approved by the engineer prior to producing SMA material.

For every reheated sample (QV, CA, and retains), each 62.5 pound sample will be heated in a 310 degree Fahrenheit oven for two (2) hours. The sample will then be split down to four (4)  $G_{mb}$ , two (2)  $G_{mm}$ , and gradation, if applicable. The  $G_{mb}$  and  $G_{mm}$  will be brought up to 275 degrees Fahrenheit respectively.

*Replace CMM 8-36.6.7 with the following:*

Determine bulk specific gravity,  $G_{mb}$ , using (Corelok System) AASHTO T-331.

Additional information on using the Corelok for  $G_{mb}$  is provided in the following link: <https://www.youtube.com/watch?v=HFT9xIR2InI#t=74>

For the QC and QV testing, determine the average bulk specific gravity,  $G_{mb}$ , for SMA material by averaging four (4) specimens. If one of the individual specimens deviates by more than +/- 0.015

from the average, results are considered to be suspect and the result furthest from the average should be removed from the calculation. Calculate the average using the remaining three (3) specimens. After compaction, the  $G_{mb}$  specimen shall not be extruded from the mold for fifteen (15) minutes. Prior to running the bulk specific gravity test, each  $G_{mb}$  shall be cooled for two hours.

*Add the following to CMM 8-36.6.8*

Determine the maximum specific gravity,  $G_{mm}$ , for SMA by averaging two (2) samples. If one of the individual samples deviates by more than 0.015 from each other, an investigation shall occur.

*Replace CMM 8-66.2.3.5 with the following:*

Determine specimen bulk specific gravity ( $G_{mb}$ ), using (Corelok System) AASHTO T-331. Report  $G_{mb}$  value to three decimal places (0.001).

### **Schedule of Items**

Attached, dated November 2, 2016, are the revised Schedule of Items. All pages of the Schedule of Items are being replaced.

### **Plan Sheets**

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:  
Revised: 2, 23, 24, 97, 98, 99, and 100.

END OF ADDENDUM

**GENERAL NOTES**

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.  
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EXISTING RIGHT-OF-WAY IS APPROXIMATE AND IS BASED ON AVAILABLE RIGHT-OF-WAY PLATS AND RECORD PLATS.

HMA PAVEMENT TYPES REFERENCED THROUGHOUT THE PLANS REFER TO SPV ITEMS AS SPECIFIED BELOW:  
HMA PAVEMENT 4 LT 58-28 S = HMA PAVEMENT 4 LT 58-28 S 3.0% VA REGRESSION SPECIAL  
HMA PAVEMENT 4 MT 58-28 S = HMA PAVEMENT 4 MT 58-28 S 3.0% VA REGRESSION SPECIAL  
HMA PAVEMENT 4 LT 58-34 S = HMA PAVEMENT 4 LT 58-34 S 3.0% VA REGRESSION SPECIAL  
HMA PAVEMENT 4 MT 58-34 S = HMA PAVEMENT 4 MT 58-34 S 3.0% VA REGRESSION SPECIAL

**AS-BUILTS USED FOR PLAN DEVELOPMENT**

- PROJECT NO: F020-1489, CONSTRUCTION YEAR: 1964
- PROJECT NO: 1052-07-72, CONSTRUCTION YEAR: 1992
- PROJECT NO: 1052-07-73, CONSTRUCTION YEAR: 1993
- PROJECT NO: 1052-07-80, CONSTRUCTION YEAR: 1993
- PROJECT NO: 1052-07-84, CONSTRUCTION YEAR: 1993
- PROJECT NO: 1052-07-79, CONSTRUCTION YEAR: 1993
- PROJECT NO: 1052-07-81, CONSTRUCTION YEAR: 1995
- PROJECT NO: 1052-07-87, CONSTRUCTION YEAR: 1995
- PROJECT NO: 1052-01-61, CONSTRUCTION YEAR: 2009
- PROJECT NO: 1052-01-62, CONSTRUCTION YEAR: 2011
- PROJECT NO: 1050-01-64, CONSTRUCTION YEAR: 2011
- PROJECT NO: 1050-01-64, CONSTRUCTION YEAR: 2012

**ALIGNMENT DESIGNATOR SUMMARY**

- STH 28 EASTBOUND = 'EB'
- STH 28 WESTBOUND = 'WB'
- CTH 2 = 'X'
- CTH X RAMP = 'YA', 'YB', 'YC', 'YD'
- STH 27 = 'S'
- STH 27 RAMP = 'SA', 'SB', 'SC', 'SD'
- CTH D RAMP = 'DA', 'DB', 'DC', 'DD'

**ORDER OF SECTION 2 SHEETS**

- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- INTERSECTION DETAILS
- PAVING DETAILS
- EROSION CONTROL
- PERMANENT SIGNING & PAVEMENT MARKING
- TRAFFIC CONTROL
- ALIGNMENT DATA

**UTILITIES**

**ELECTRICITY**

VILLAGE OF CADOTT  
NEIL AUBART  
300 S DOLBY ST  
CADOTT, WI 54729  
(715) 312-3353  
CADOTT@ELECTRICCENTURYTEL.NET

**DAIRYLAND POWER COOPERATIVE**

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**COPY ALL XCEL ENERGY CORRESPONDENCE TO:**

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PO BOX 8  
EAU CLAIRE, WI 54702-0008  
(715) 737-2482  
DAWN.SCHULTZ@XCELENERGY.COM

**COMMUNICATIONS**

ALIXT WISCONSIN  
300 S DOLBY ST  
EAU CLAIRE, WI 54701  
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RP4514@ATTI.COM

**CENTURYLINK**

JIM AROUETTE  
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CHESLON, WI 54766  
JIM.AROUETTE@CENTURYLINK.COM

**24-HOUR EMERGENCY REPAIR:**

(800) 824-2877  
CENTURYLINK COMMUNICATIONS (EAST/AMWEST)  
330 E MARY ST  
WATKINS, WI 54983  
(631) 887-5363  
ROBERT.SAMPSON@CENTURYLINK.COM

**CHARTER COMMUNICATIONS**

SHANE YODER  
1201 MCCANN DR  
ALTOONA, WI 54707  
(715) 831-8940 (EXT 5103)  
SHANE.YODER@CHARTER.COM

**GAS/PETROLEUM**

MAGELLAN PIPELINE  
CLAIR MADSEN  
2728 PATTON RD  
ST PAUL, MN 5513  
(612) 750-1806  
CLAIR.MADSEN@MAGELLANLP.COM

**24-HOUR EMERGENCY CONTACT:**

(800) 720-2417  
WE ENERGIES  
RYAN MIENTKE  
1921 8TH ST S  
WISCONSIN RAPIDS, WI 54494  
(715) 421-9293  
RYAN.MIENTKE@WE-ENERGIES.COM

**24-HOUR EMERGENCY CONTACT:**

(800) 261-5325

**WATER AND SEWER**

VILLAGE OF BOUD  
BOUD NEWWALD  
PO BOX 8  
BOUD, WI 54726  
(715) 667-3282  
GRUNEWALDTHOMAS@YAHOO.COM

Addendum No. 01  
ID 1050-01-61 &  
ID 1052-01-62  
Revised Sheet 2  
November 2, 2016



Dial 811 or (800)242-8511  
www.DiggersHotline.com

**OTHER CONTACTS**

**U.S. ARMY CORPS OF ENGINEERS**

DAN MUNSON  
U.S. ARMY CORPS OF ENGINEERS  
ST. PAUL DISTRICT-REGULATORY  
180 5TH STREET EAST, SUITE 700  
ST. PAUL, MN 55101  
659E230@USACE.ARMY.MIL  
DANIEL.MUNSON@USACE.ARMY.MIL

**WISCONSIN CENTRAL LTD (CN)**

WISCONSIN CENTRAL LTD (CN)  
1625 DEPOT STREET  
STEVENS POINT, WI 54481  
ATTN: JACQUILINE MACECICZ  
PHONE 715-345-2503  
JACQUELINE.MACECICZ@CNCA

CALL BEFORE YOU DIG  
CN IS NOT PART OF DIGGER HOTLINE  
CONTACT MARY ELLEN CARMODY  
PHONE 734-783-4633

PROJECT NO:1050-01-61/1052-01-62

HWY+STH 29

COUNTY:CHIPPEWA

GENERAL NOTES

PLOT NAME :

FILE NAME : F:\N48XX\4896-4897.DP\_15\_5TR29.CHX\CADD5\10500161\10520161\SHEETS\PLAN\020101-CN.DWG

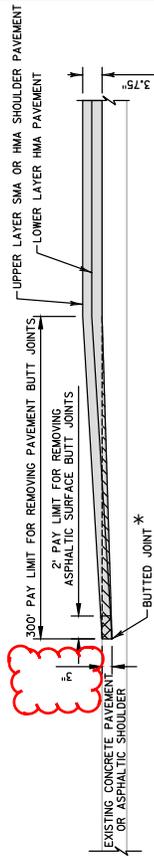
PLOT DATE : 10/13/2016 4:17 PM

FLOT BY : ERIK OLESON

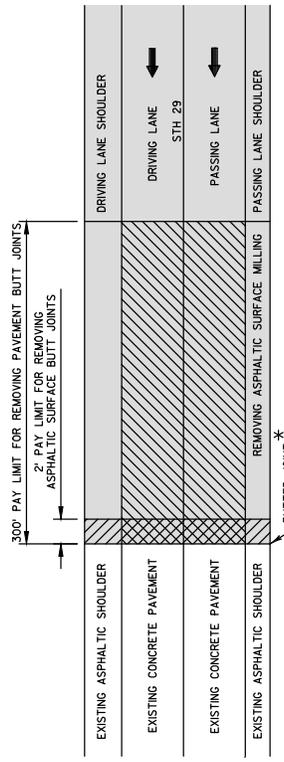
PLANT NAME :

SHEET 2

E



PROFILE



PLAN

- REMOVING PAVEMENT BUTT JOINTS
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- PROPOSED SMA OR HMA SHOULDER PAVEMENT OVERLAY

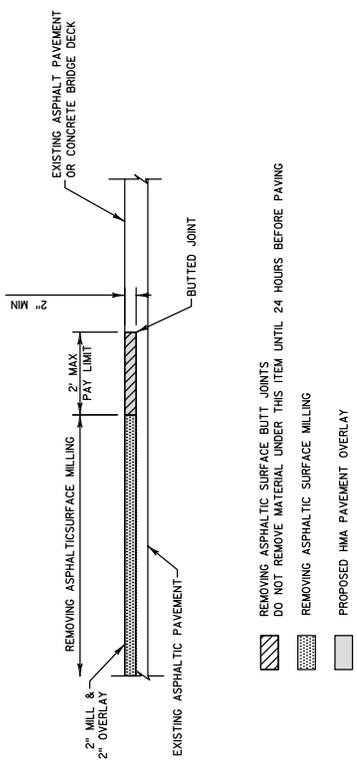
**STH\_29 MAINLINE BUTT JOINT & TRANSITION DETAIL**  
 REQUIRED AT BEGIN/END EB PROJECT, BEGIN WB PROJECT, BEGIN/WEND CONCRETE PAVEMENT REPAIR AREAS, AND BRIDGE DECKS  
 (SEE PLAN SHEETS FOR LOCATIONS)

NOTES

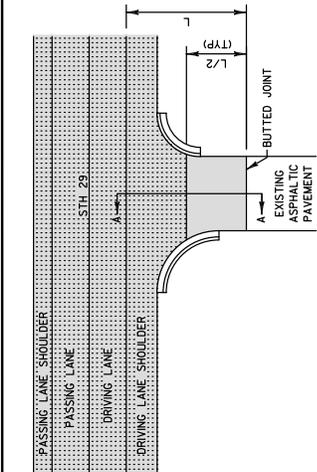
GRADE PULVERIZED SHOULDERS TO MATCH 300' TRANSITIONS TO EXISTING CONCRETE PAVEMENT.

HMA SHOULDERS FULL DEPTH REPLACEMENTS SHALL OCCUR DURING STAGED TRAFFIC. NO BUTT JOINT REQUIRED FOR STAGE 2 & 3. BUTT JOINT REQUIRED FOR STAGE 4 & 5 AT CONCRETE REPAIR AREAS.

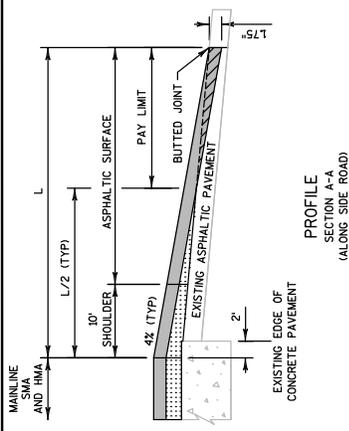
\*PAVE LOWER LAYER HMA PAVEMENT FLUSH W/EXISTING CONCRETE PAVEMENT SURFACE. REMOVE EXISTING ASPHALTIC SURFACE MILLING & BUTT JOINT REQUIRED DURING STAGE 4 & 5 TO PROVIDE CONSISTENT 1.75" UPPER LAYER THICKNESS OF SMA OR HMA PAVEMENT.



**CTH\_X\_STH\_27\_ & CTH\_D MAINLINE BUTT JOINT DETAIL**  
 REQUIRED AT BEGIN CONSTRUCTION, END CONSTRUCTION, AND BRIDGE DECKS  
 (SEE PLAN SHEETS FOR LOCATIONS)



PLAN



- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING
- PROPOSED LOWER LAYER HMA PAVEMENT OVERLAY
- PROPOSED UPPER LAYER HMA, SMA, OR ASPHALTIC SURFACE OVERLAY

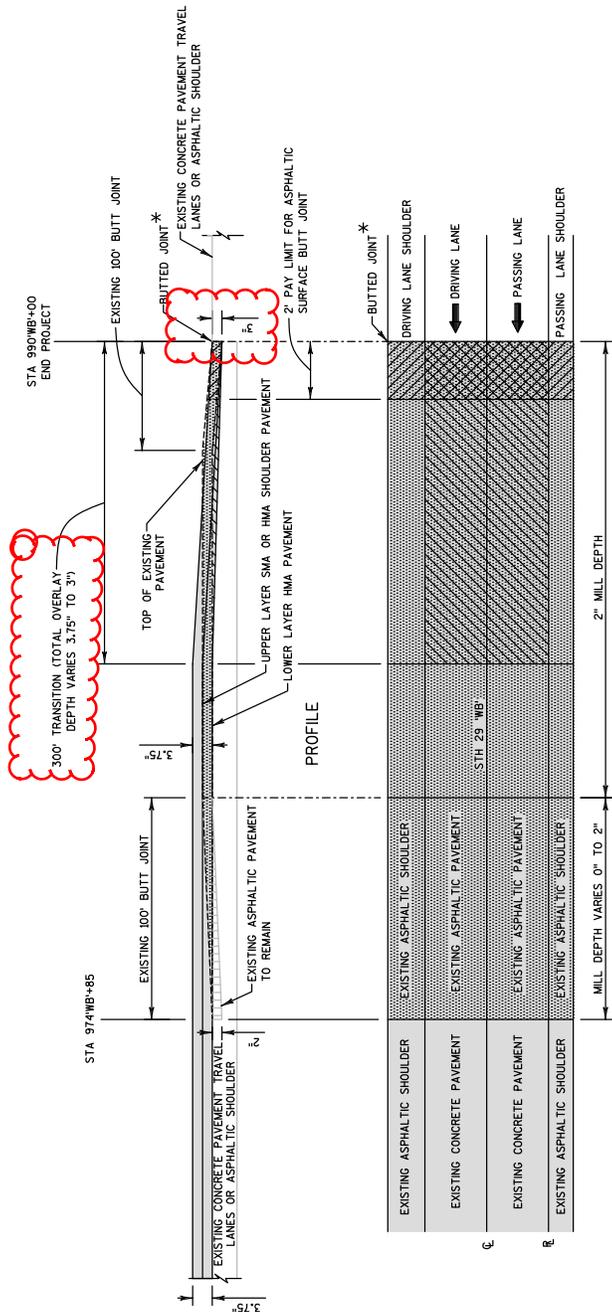
**AT-GRADE INTERSECTION BUTT JOINT DETAIL**  
 270TH STREET, 300TH STREET, AND 320TH STREET

NOTE

OFFSET TO "L" SHOWN ON SECTION 5 PLAN SHEETS

Addendum No. 01  
 ID 1050-01-61 &  
 ID 1052-01-62  
 Revised Sheet 23  
 November 2, 2016

Addendum No. 01  
 ID 1050-01-61 &  
 ID 1052-01-62  
 Revised Sheet 24  
 November 2, 2016



PLAN

- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- REMOVING PAVEMENT BUTT JOINTS
- PROPOSED HMA OR SMA PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING

**STH 29 WB END PROJECT BUTT JOINT DETAIL**  
 STH 29 WB END PROJECT LIMIT

NOTES:  
 1. UPPER LAYER HMA PAVEMENT FLUSH W/ EXISTING CONCRETE PAVEMENT OR ASPHALTIC SHOULDER FOR STAGE 3 & 4 TRAFFIC.  
 2. REMOVING ASPHALTIC SURFACE MILLING & BUTT JOINT REQUIRED DURING STAGE 4 & 5 TO PROVIDE CONSISTENT 1.75" UPPER LAYER THICKNESS OF SMA OR HMA PAVEMENT.

Addendum No. 01  
 ID 1050-01-61 &  
 ID 1052-01-62  
 Revised Sheet 97  
 November 2, 2016

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ASPHALTIC ITEMS

PROJECT	STATION	TO	STATION	OFFSET	ALIGNMENT	SY	HMA COLD MIXER PAVING AND REPAIR	PAVERZE AND REPAIR	TACK COAT	REHEATING HMA LONGITUDINAL JOINTS	HMA PAN MIX 41156283	HMA PAN MIX 41156283 3% VA REGRESSION SPECIAL	HMA PAN MIX 41156283 4 MITSUBISHI	HMA PAN MIX 41156283 4 MITSUBISHI	HMA PAN MIX 41156283 4 SMA RES-4H	ASPHALTIC PATCHING SURFACE	ASPHALTIC PATCHING TEMPORARY	ASPHALTIC FLUMES	ASPHALTIC RUMBLE STRIPS	465.0105	465.0110	465.0125	465.0315	465.0400	SP.V.0195.04	SP.V.0195.06	REMARKS	
1050-01-61	155+61	-	209+86	LT	WB	-	-	-	1,269	-	-	-	-	1,184	-	881	-	-	5,425	-	-	-	-	-	-	-	-	PASSING LANE AND SHOULDER
	155+61	-	209+86	RT	WB	-	-	-	1,013	-	-	-	-	928	-	812	-	-	5,425	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER
	155+61	-	209+86	LT	WB	4,822	-	-	530	464	-	-	-	-	-	11	-	-	5,425	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	169+87	-	232+00	RT	WB	-	-	-	10	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-	-	MAINTENANCE CROSSOVER	
	210+82	-	232+00	LT	WB	-	-	-	495	-	-	-	-	466	-	383	-	-	2,118	-	-	-	-	-	-	-	DRIVING LANE AND SHOULDER	
	210+82	-	232+00	RT	WB	1,883	-	-	395	2,118	-	-	-	362	-	317	-	-	2,118	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	232+00	-	238+33	LT	WB	-	-	-	14	-	-	-	-	-	-	4	-	-	633	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	232+00	-	232+00	RT	WB	-	-	-	28	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	238+33	-	263+16	LT	WB	-	-	-	1,049	-	-	-	-	985	-	810	-	-	4,483	-	-	-	-	-	-	-	PASSING LANE AND SHOULDER	
	238+33	-	263+16	RT	WB	-	-	-	837	4,483	-	-	-	767	-	671	-	-	4,483	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	273+86	-	273+86	RT	WB	3,985	-	-	199	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	MAINTENANCE CROSSOVER	
	283+16	-	289+50	LT	WB	-	-	-	10	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	283+16	-	289+50	RT	WB	-	-	-	4	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	289+50	-	289+73	LT	WB	-	-	-	216	923	-	-	-	203	-	167	-	-	923	-	-	-	-	-	-	-	PASSING LANE AND SHOULDER	
	289+50	-	289+73	RT	WB	-	-	-	172	923	-	-	-	158	-	138	-	-	923	-	-	-	-	-	-	-	DRIVING LANE	
	289+50	-	289+73	LT	WB	820	-	-	41	-	-	-	-	41	-	2	-	-	923	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	289+50	-	289+89	LT	WB	-	-	-	1,808	-	-	-	-	1,701	-	1,397	-	-	7,731	-	-	-	-	-	-	-	PASSING LANE AND SHOULDER	
	289+89	-	377+00	LT	WB	-	-	-	1,443	7,731	-	-	-	1,323	-	1,158	-	-	-	-	-	-	-	-	-	-	DRIVING LANE	
	289+89	-	377+00	RT	WB	6,872	-	-	344	-	-	-	-	756	-	16	-	-	7,731	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	377+00	-	383+81	LT	WB	-	-	-	15	-	-	-	-	33	-	681	-	-	-	-	-	-	-	-	-	-	PASSING LANE SHOULDER	
	377+00	-	383+81	RT	WB	-	-	-	835	-	-	-	-	67	-	1	-	-	-	-	-	-	-	-	-	-	PASSING LANE SHOULDER	
	383+81	-	419+51	LT	WB	-	-	-	666	3,570	-	-	-	785	-	645	-	-	9,570	-	-	-	-	-	-	-	DRIVING LANE AND SHOULDER	
	383+81	-	419+51	RT	WB	-	-	-	104	-	-	-	-	511	-	535	-	-	-	-	-	-	-	-	-	-	DRIVING LANE	
	419+51	-	428+32	LT	WB	-	-	-	10	-	-	-	-	-	229	-	-	-	3,023	-	-	-	-	-	-	-	MAINTENANCE CROSSOVER	
	419+51	-	428+32	RT	WB	-	-	-	15	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	428+32	-	449+15	LT	WB	-	-	-	30	-	-	-	-	67	-	1	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	428+32	-	449+15	RT	WB	-	-	-	534	-	-	-	-	502	-	413	-	-	2,283	-	-	-	-	-	-	-	DRIVING LANE AND SHOULDER	
	449+15	-	457+78	LT	WB	-	-	-	426	2,283	-	-	-	381	-	342	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	449+15	-	457+78	RT	WB	1,632	-	-	62	-	-	-	-	87	-	4	-	-	1,736	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	457+78	-	534+28	LT	WB	-	-	-	29	-	-	-	-	25	-	1	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	457+78	-	534+28	RT	WB	-	-	-	66	-	-	-	-	66	-	1	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	457+78	-	534+28	LT	WB	-	-	-	1,836	-	-	-	-	1,727	-	1,419	-	-	7,850	-	-	-	-	-	-	-	PASSING LANE AND SHOULDER	
	457+78	-	534+28	RT	WB	-	-	-	1,465	7,850	-	-	-	1,343	-	1,175	-	-	-	-	-	-	-	-	-	-	DRIVING LANE	
	461+88	-	534+28	LT	WB	-	-	-	10	-	-	-	-	349	-	16	-	-	7,800	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	461+88	-	534+28	RT	WB	-	-	-	1,674	-	-	-	-	672	-	44	-	-	-	-	-	-	-	-	-	-	MAINTENANCE CROSSOVER	
	535+84	-	607+50	LT	WB	-	-	-	1,336	7,156	-	-	-	1,574	-	1,293	-	-	7,156	-	-	-	-	-	-	-	DRIVING LANE	
	535+84	-	607+50	RT	WB	5,195	-	-	260	-	-	-	-	425	-	1,071	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	607+50	-	614+22	LT	WB	-	-	-	10	-	-	-	-	30	-	4	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	607+50	-	614+22	RT	WB	-	-	-	30	-	-	-	-	58	-	1	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	614+22	-	661+00	LT	WB	-	-	-	1,094	-	-	-	-	1,023	-	846	-	-	4,678	-	-	-	-	-	-	-	PASSING LANE AND SHOULDER	
	614+22	-	661+00	RT	WB	-	-	-	873	4,678	-	-	-	801	-	700	-	-	-	-	-	-	-	-	-	-	DRIVING LANE	
	638+36	-	661+00	LT	WB	-	-	-	188	-	-	-	-	413	-	8	-	-	4,125	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	638+36	-	661+00	RT	WB	-	-	-	10	-	-	-	-	1,496	-	44	-	-	-	-	-	-	-	-	-	-	MAINTENANCE CROSSOVER	
	661+00	-	728+00	LT	WB	-	-	-	1,590	-	-	-	-	1,861	-	1,229	-	-	6,800	-	-	-	-	-	-	-	PASSING LANE AND SHOULDER	
	661+00	-	728+00	RT	WB	-	-	-	1,269	6,800	-	-	-	1,166	-	1,018	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	817+00	-	817+00	LT	WB	6,044	-	-	2,058	-	-	-	-	665	-	14	-	-	8,800	-	-	-	-	-	-	-	PASSING LANE SHOULDER	
	817+00	-	817+00	RT	WB	-	-	-	1,643	8,804	-	-	-	1,937	-	1,594	-	-	8,768	-	-	-	-	-	-	-	DRIVING LANE AND SHOULDER	
	729+00	-	729+00	LT	WB	-	-	-	391	-	-	-	-	864	-	1,318	-	-	-	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	729+00	-	729+00	RT	WB	7,809	-	-	10	-	-	-	-	44	-	18	-	-	8,768	-	-	-	-	-	-	-	DRIVING LANE SHOULDER	
	730+69	-	730+69	RT	WB	-	-	-	28,824	61,821	-	-	-	307	-	44	-	-	125,115	-	-	-	-	-	-	-	MAINTENANCE CROSSOVER	
SUBTOTALS						51,880	-	-	6,293	5,505	24,179	-	-	20,431	-	130	-	-	125,115	-	-	-	-	-	-	-	20,431	

3

\*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PROJECT NO: 1050-01-61/1052-01-62 HWY: STH 29

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

SHEET 97

E

FILE NAME : P:\68xx\4896-4897\_DP\_15\_STH29.CH\CADDS\10500161\SheetSP\030201.mxd

PLOT DATE : 10/13/2016

PLOT BY : em

PLOT NAME :

PLOT SCALE : 1:120

WISDOT/CADD SHEET 43









Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

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	201.0105 Clearing	4.000 STA	_____.	_____.
0020	201.0205 Grubbing	4.000 STA	_____.	_____.
0030	204.0105 Removing Pavement Butt Joints	38,100.000 SY	_____.	_____.
0040	204.0110 Removing Asphaltic Surface	3,935.000 SY	_____.	_____.
0050	204.0115 Removing Asphaltic Surface Butt Joints	1,120.000 SY	_____.	_____.
0060	204.0120 Removing Asphaltic Surface Milling	117,560.000 SY	_____.	_____.
0070	204.0130 Removing Curb	161.000 LF	_____.	_____.
0080	204.0150 Removing Curb & Gutter	3,185.000 LF	_____.	_____.
0090	204.0180 Removing Delineators and Markers	634.000 EACH	_____.	_____.
0100	204.0190 Removing Surface Drains	14.000 EACH	_____.	_____.
0110	204.0245 Removing Storm Sewer (size) 01. 12-Inch	8.000 LF	_____.	_____.
0120	205.0100 Excavation Common	2,899.000 CY	_____.	_____.
0130	205.9015.S Grading Shaping and Finishing Intersection (location) 01. 300th Street (WB)	LS	LUMP SUM	_____.
0140	205.9015.S Grading Shaping and Finishing Intersection (location) 02. 270th Street	LS	LUMP SUM	_____.
0150	205.9015.S Grading Shaping and Finishing Intersection (location) 03. 300th Street (EB)	LS	LUMP SUM	_____.



Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0160	205.9015.S Grading Shaping and Finishing Intersection (location) 04. 320th Street	LS	LUMP SUM	_____.
0170	211.0100 Prepare Foundation for Asphaltic Paving (project) 01. 1050-01-61	LS	LUMP SUM	_____.
0180	211.0100 Prepare Foundation for Asphaltic Paving (project) 02. 1052-01-62	LS	LUMP SUM	_____.
0190	211.0400 Prepare Foundation for Asphaltic Shoulders	227.000 STA	_____.	_____.
0200	213.0100 Finishing Roadway (project) 01. 1050-01-61	1.000 EACH	_____.	_____.
0210	213.0100 Finishing Roadway (project) 02. 1052-01-62	1.000 EACH	_____.	_____.
0220	305.0110 Base Aggregate Dense 3/4-Inch	31,105.000 TON	_____.	_____.
0230	305.0120 Base Aggregate Dense 1 1/4-Inch	10,210.000 TON	_____.	_____.
0240	305.0500 Shaping Shoulders	3,575.000 STA	_____.	_____.
0250	325.0100 Pulverize and Relay	132,916.000 SY	_____.	_____.
0260	405.0100 Coloring Concrete WisDOT Red	962.000 CY	_____.	_____.
0270	415.0120 Concrete Pavement 12-Inch	2,880.000 SY	_____.	_____.
0280	416.0610 Drilled Tie Bars	13,534.000 EACH	_____.	_____.
0290	416.0620 Drilled Dowel Bars	63,512.000 EACH	_____.	_____.
0300	416.1010 Concrete Surface Drains	23.000 CY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0310	416.1110 Concrete Shoulder Rumble Strips	9,880.000 LF	_____	_____
0320	416.1710 Concrete Pavement Repair	1,350.000 SY	_____	_____
0330	416.1720 Concrete Pavement Replacement	5,050.000 SY	_____	_____
0340	420.1000 Continuous Diamond Grinding Concrete Pavement	37,910.000 SY	_____	_____
0350	440.4410 Incentive IRI Ride	126,000.000 DOL	1.00000	126,000.00
0360	450.4000 HMA Cold Weather Paving	30,000.000 TON	_____	_____
0370	455.0605 Tack Coat	79,230.000 GAL	_____	_____
0380	460.2000 Incentive Density HMA Pavement	96,300.000 DOL	1.00000	96,300.00
0390	460.4110.S Reheating HMA Pavement Longitudinal Joints	154,295.000 LF	_____	_____
0400	465.0105 Asphaltic Surface	2,025.000 TON	_____	_____
0410	465.0110 Asphaltic Surface Patching	1,890.000 TON	_____	_____
0420	465.0125 Asphaltic Surface Temporary	20.000 TON	_____	_____
0430	465.0315 Asphaltic Flumes	205.000 SY	_____	_____
0440	465.0400 Asphaltic Shoulder Rumble Strips	311,180.000 LF	_____	_____
0450	520.8000 Concrete Collars for Pipe	1.000 EACH	_____	_____
0460	520.8700 Cleaning Culvert Pipes	3.000 EACH	_____	_____



Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0470	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	1.000 EACH	_____	_____
0480	523.0529 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	1.000 EACH	_____	_____
0490	601.0411 Concrete Curb & Gutter 30-Inch Type D	530.000 LF	_____	_____
0500	601.0557 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	595.000 LF	_____	_____
0510	601.0582 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	2,885.000 LF	_____	_____
0520	603.8000 Concrete Barrier Temporary Precast Delivered	240.000 LF	_____	_____
0530	603.8125 Concrete Barrier Temporary Precast Installed	240.000 LF	_____	_____
0540	606.0200 Riprap Medium	72.000 CY	_____	_____
0550	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	53.000 LF	_____	_____
0560	611.0430 Reconstructing Inlets	1.000 EACH	_____	_____
0570	611.0642 Inlet Covers Type MS	1.000 EACH	_____	_____
0580	611.0652 Inlet Covers Type T	6.000 EACH	_____	_____
0590	611.3901 Inlets Median 1 Grate	1.000 EACH	_____	_____
0600	611.8115 Adjusting Inlet Covers	6.000 EACH	_____	_____
0610	611.9800.S Pipe Grates	1.000 EACH	_____	_____



Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0620	614.0010 Barrier System Grading Shaping Finishing	49.000 EACH	_____.	_____.
0630	614.0200 Steel Thrie Beam Structure Approach	82.800 LF	_____.	_____.
0640	614.0305 Steel Plate Beam Guard Class A	150.100 LF	_____.	_____.
0650	614.0345 Steel Plate Beam Guard Short Radius	87.600 LF	_____.	_____.
0660	614.0370 Steel Plate Beam Guard Energy Absorbing Terminal	2.000 EACH	_____.	_____.
0670	614.0390 Steel Plate Beam Guard Short Radius Terminal	2.000 EACH	_____.	_____.
0680	614.0905 Crash Cushions Temporary	2.000 EACH	_____.	_____.
0690	614.0920 Salvaged Rail	10,185.000 LF	_____.	_____.
0700	614.0925 Salvaged Guardrail End Treatments	44.000 EACH	_____.	_____.
0710	614.2300 MGS Guardrail 3	10,012.500 LF	_____.	_____.
0720	614.2310 MGS Guardrail 3 HS	562.500 LF	_____.	_____.
0730	614.2500 MGS Thrie Beam Transition	1,334.600 LF	_____.	_____.
0740	614.2610 MGS Guardrail Terminal EAT	38.000 EACH	_____.	_____.
0750	614.2620 MGS Guardrail Terminal Type 2	15.000 EACH	_____.	_____.
0760	618.0100 Maintenance And Repair of Haul Roads (project) 01. 1050-01-61	1.000 EACH	_____.	_____.
0770	618.0100 Maintenance And Repair of Haul Roads (project) 02. 1052-01-62	1.000 EACH	_____.	_____.



Proposal Schedule of Items

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Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0780	619.1000 Mobilization	1.000 EACH	_____.	_____.
0790	620.0300 Concrete Median Sloped Nose	620.000 SF	_____.	_____.
0800	624.0100 Water	425.000 MGAL	_____.	_____.
0810	625.0500 Salvaged Topsoil	4,020.000 SY	_____.	_____.
0820	628.1504 Silt Fence	26,690.000 LF	_____.	_____.
0830	628.1520 Silt Fence Maintenance	26,690.000 LF	_____.	_____.
0840	628.1905 Mobilizations Erosion Control	20.000 EACH	_____.	_____.
0850	628.1910 Mobilizations Emergency Erosion Control	14.000 EACH	_____.	_____.
0860	628.2002 Erosion Mat Class I Type A	18,055.000 SY	_____.	_____.
0870	628.2004 Erosion Mat Class I Type B	6,475.000 SY	_____.	_____.
0880	628.7005 Inlet Protection Type A	8.000 EACH	_____.	_____.
0890	628.7015 Inlet Protection Type C	8.000 EACH	_____.	_____.
0900	628.7504 Temporary Ditch Checks	380.000 LF	_____.	_____.
0910	628.7555 Culvert Pipe Checks	44.000 EACH	_____.	_____.
0920	628.7570 Rock Bags	3,415.000 EACH	_____.	_____.
0930	629.0210 Fertilizer Type B	2.500 CWT	_____.	_____.
0940	630.0120 Seeding Mixture No. 20	45.000 LB	_____.	_____.



Proposal Schedule of Items

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Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0950	630.0130 Seeding Mixture No. 30	43.000 LB	_____.	_____.
0960	633.0100 Delineator Posts Steel	641.000 EACH	_____.	_____.
0970	633.0500 Delineator Reflectors	771.000 EACH	_____.	_____.
0980	633.5200 Markers Culvert End	3.000 EACH	_____.	_____.
0990	634.0616 Posts Wood 4x6-Inch X 16-FT	134.000 EACH	_____.	_____.
1000	634.0618 Posts Wood 4x6-Inch X 18-FT	117.000 EACH	_____.	_____.
1010	634.0620 Posts Wood 4x6-Inch X 20-FT	37.000 EACH	_____.	_____.
1020	634.0814 Posts Tubular Steel 2x2-Inch X 14-FT	15.000 EACH	_____.	_____.
1030	635.0200 Sign Supports Structural Steel HS	11,970.000 LB	_____.	_____.
1040	636.0100 Sign Supports Concrete Masonry	22.000 CY	_____.	_____.
1050	636.0500 Sign Supports Steel Reinforcement	1,320.000 LB	_____.	_____.
1060	637.1220 Signs Type I Reflective SH	1,847.000 SF	_____.	_____.
1070	637.2210 Signs Type II Reflective H	2,571.890 SF	_____.	_____.
1080	637.2230 Signs Type II Reflective F	296.000 SF	_____.	_____.
1090	638.2102 Moving Signs Type II	1.000 EACH	_____.	_____.
1100	638.2601 Removing Signs Type I	14.000 EACH	_____.	_____.
1110	638.2602 Removing Signs Type II	231.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1120	638.3000 Removing Small Sign Supports	280.000 EACH	_____	_____
1130	638.3100 Removing Structural Steel Sign Supports	28.000 EACH	_____	_____
1140	642.5201 Field Office Type C	1.000 EACH	_____	_____
1150	643.0100 Traffic Control (project) 01. 1050-01-61	1.000 EACH	_____	_____
1160	643.0100 Traffic Control (project) 02. 1050-01-62	1.000 EACH	_____	_____
1170	643.0300 Traffic Control Drums	119,200.000 DAY	_____	_____
1180	643.0420 Traffic Control Barricades Type III	7,960.000 DAY	_____	_____
1190	643.0705 Traffic Control Warning Lights Type A	15,920.000 DAY	_____	_____
1200	643.0715 Traffic Control Warning Lights Type C	13,200.000 DAY	_____	_____
1210	643.0800 Traffic Control Arrow Boards	720.000 DAY	_____	_____
1220	643.0900 Traffic Control Signs	25,280.000 DAY	_____	_____
1230	643.0920 Traffic Control Covering Signs Type II	112.000 EACH	_____	_____
1240	643.1050 Traffic Control Signs PCMS	380.000 DAY	_____	_____
1250	645.0120 Geotextile Type HR	256.000 SY	_____	_____
1260	646.0106 Pavement Marking Epoxy 4-Inch	4,112.000 LF	_____	_____
1270	646.0126 Pavement Marking Epoxy 8-Inch	1,336.000 LF	_____	_____
1280	646.0406 Pavement Marking Same Day Epoxy 4-Inch	3,420.000 LF	_____	_____



## Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1290	646.0600 Removing Pavement Markings	1,660.000 LF	_____.	_____.
1300	646.0805.S Pavement Marking Outfall	650.000 EACH	_____.	_____.
1310	646.2304.S Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	391,420.000 LF	_____.	_____.
1320	646.2308.S Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	10,443.000 LF	_____.	_____.
1330	647.0166 Pavement Marking Arrows Epoxy Type 2	9.000 EACH	_____.	_____.
1340	647.0356 Pavement Marking Words Epoxy	4.000 EACH	_____.	_____.
1350	647.0456 Pavement Marking Curb Epoxy	160.000 LF	_____.	_____.
1360	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	340.000 LF	_____.	_____.
1370	647.0606 Pavement Marking Island Nose Epoxy	6.000 EACH	_____.	_____.
1380	647.0803 Pavement Marking Aerial Enforcement Bars Epoxy 24-Inch	132.000 LF	_____.	_____.
1390	647.0955 Removing Pavement Markings Arrows	4.000 EACH	_____.	_____.
1400	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	33,040.000 LF	_____.	_____.
1410	649.0402 Temporary Pavement Marking Paint 4-Inch	728,100.000 LF	_____.	_____.
1420	649.0506 Temporary Pavement Marking Removable Mask-Out Tape 6-Inch	8,250.000 LF	_____.	_____.
1430	649.0801 Temporary Pavement Marking Removable Tape 8-Inch	2,400.000 LF	_____.	_____.



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Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1440	649.0802 Temporary Pavement Marking Paint 8-Inch	20,900.000 LF	_____.	_____.
1450	650.4000 Construction Staking Storm Sewer	3.000 EACH	_____.	_____.
1460	650.4500 Construction Staking Subgrade	1,735.000 LF	_____.	_____.
1470	650.5500 Construction Staking Curb Gutter and Curb & Gutter	4,150.000 LF	_____.	_____.
1480	650.7000 Construction Staking Concrete Pavement	1,735.000 LF	_____.	_____.
1490	650.8000 Construction Staking Resurfacing Reference	189,215.000 LF	_____.	_____.
1500	650.8500 Construction Staking Electrical Installations (project) 01. 1050-01-61	LS	LUMP SUM	_____.
1510	650.8500 Construction Staking Electrical Installations (project) 02. 1052-01-62	LS	LUMP SUM	_____.
1520	650.9910 Construction Staking Supplemental Control (project) 01. 1050-01-61	LS	LUMP SUM	_____.
1530	650.9910 Construction Staking Supplemental Control (project) 02. 1052-01-62	LS	LUMP SUM	_____.
1540	650.9920 Construction Staking Slope Stakes	1,735.000 LF	_____.	_____.
1550	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	525.000 LF	_____.	_____.
1560	653.0140 Pull Boxes Steel 24x42-Inch	6.000 EACH	_____.	_____.
1570	653.0905 Removing Pull Boxes	6.000 EACH	_____.	_____.
1580	655.0510 Electrical Wire Traffic Signals 12 AWG	1,860.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161108017

Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1590	690.0150 Sawing Asphalt	55,805.000 LF	_____.	_____.
1600	690.0250 Sawing Concrete	158,910.000 LF	_____.	_____.
1610	715.0415 Incentive Strength Concrete Pavement	1,000.000 DOL	1.00000	1,000.00
1620	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	2,100.000 HRS	5.00000	10,500.00
1630	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	2,400.000 HRS	5.00000	12,000.00
1640	SPV.0045 Special 01. Traffic Control Signs PCMS Remote Communications	380.000 DAY	_____.	_____.
1650	SPV.0060 Special 01. Removing Raised Pavement Markers and Filling Voids	1,200.000 EACH	_____.	_____.
1660	SPV.0060 Special 02. Cleaning Pipe Underdrain Outfalls	650.000 EACH	_____.	_____.
1670	SPV.0060 Special 03. Grading, Shaping and Finishing Maintenance Crossovers	9.000 EACH	_____.	_____.
1680	SPV.0060 Special 04. Inlet Covers Temporary	2.000 EACH	_____.	_____.
1690	SPV.0090 Special 01. Concrete Curb & Gutter Cure and Seal Treatment	4,285.000 LF	_____.	_____.
1700	SPV.0090 Special 02. Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	150.000 LF	_____.	_____.
1710	SPV.0105 Special 01. Milling and Removing Temporary Joint Project 1050-01-61	LS	LUMP SUM	_____.
1720	SPV.0105 Special 02. Milling and Removing Temporary Joint Project 1052-01-62	LS	LUMP SUM	_____.



Proposal Schedule of Items

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Project(s): 1050-01-61, 1052-01-62

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1730	SPV.0105 Special 03. Material Transfer Vehicle Project 1050-01-61	LS	LUMP SUM	_____.
1740	SPV.0105 Special 04. Material Transfer Vehicle Project 1052-01-62	LS	LUMP SUM	_____.
1750	SPV.0180 Special 01. Concrete Pavement Repair Doweled Special	16,510.000 SY	_____.	_____.
1760	SPV.0180 Special 02. Concrete Pavement Replacement Doweled Special	48,085.000 SY	_____.	_____.
1770	SPV.0195 Special 01. HMA Pavement 4 LT 58-28 S 3.0% Va Regression Special	15,990.000 TON	_____.	_____.
1780	SPV.0195 Special 02. HMA Pavement 4 LT 58-34 S 3.0% Va Regression Special	13,990.000 TON	_____.	_____.
1790	SPV.0195 Special 03. HMA Pavement 4 MT 58-28 S 3.0% Va Regression Special	61,875.000 TON	_____.	_____.
1800	SPV.0195 Special 04. HMA Pavement 4 MT 58-34 S 3.0% Va Regression Special	7,890.000 TON	_____.	_____.
1820	SPV.0195 Special 06. SMA Pavement Compaction Acceptance	50,990.000 TON	_____.	_____.
1830	460.8444 HMA Pavement 4 SMA 58-34 H	50,990.000 TON	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.