



Wisconsin Department of Transportation

November 7, 2019

Division of Transportation Systems Development
 Bureau of Project Development
 4822 Madison Yards Way, 4th Floor South
 Madison, WI 53705

Telephone: (608) 266-1631
 Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #15: 1080-18-70, WISC 2019 684
EB Lake Geneva – Genoa City
STH 50 to CTH H
USH 012
Walworth County

1080-19-70, WISC 2019 685
WB Lake Geneva – Genoa City
STH 50 to II State Line
USH 012
Walworth County

Letting of November 12, 2019

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
4	Traffic
26	Resin Binder High Friction Surface Treatment, Item SPV.0180.01

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0125	Removing Asphaltic Surface Milling	TON	42,341	485	42,826
415.0095	Concrete Pavement 9 1/2-Inch	SY	8,378	-419	7,959
460.2005	Incentive Density PWL HMA Pavement	DOL	53,310	710	54,020
460.2010	Incentive Air Voids HMA Pavement	DOL	68,230	710	68,940
460.6223	HMA Pavement 3 MT 58-28 S	TON	36,703	-4,000	32,703
643.0300	Traffic Control Drums	DAY	57,429	10,167	67,596
643.0420	Traffic Control Barricades Type III	DAY	6,698	1,035	7,733
643.0705	Traffic Control Warning Lights Type A	DAY	14,328	2,163	16,491
643.0715	Traffic Control Warning Lights Type C	DAY	14,434	2,036	16,470
643.0800	Traffic Control Arrow Boards	DAY	644	78	722
643.0900	Traffic Control Signs	DAY	38,887	4,572	43,459
643.0920	Traffic Control Covering Signs Type II	EACH	74	4	78
643.1070	Traffic Control Cones 42-Inch	DAY	17,063	2,182	19,245
690.0150	Sawing Asphalt	LF	4,509	48	4,557
SPV.0180.01	Resin Binder High Friction Surface Treatment	SY	17,334	-3,468	13,866

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
465.0105	Asphaltic Surface	TON	0	485	485

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
	Project ID 1080-18-70
183	Miscellaneous Quantities (Revised asphalt quantities used for shoulder repair)
190	Miscellaneous Quantities (Revised sawing asphalt quantities used for shoulder repair)
191	Miscellaneous Quantities (Revised traffic control quantities for HFST application)
	Project ID 1080-19-70
143	Miscellaneous Quantities (Removed asphalt quantities used for shoulder repair)
144	Miscellaneous Quantities (Corrected concrete pavement quantities)
147	Miscellaneous Quantities (Revised traffic control quantities for HFST application)
179	Miscellaneous Quantities (Updated PWL Mixture Use Table)

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
	Project ID 1080-18-70
83A	Traffic Control – Typical Section – Stage 1 – Westbound Shoulder Repair (Shows shoulder repair work and indicates when work is to be done)

Other

Revise the contract time for completion from a completion date of October 23, 2020, to a completion date of October 30, 2020.

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
1080-18-70 and 1080-19-70
November 7, 2019

Special Provisions

4. Traffic

*Add the following under section titled **Traffic Control**:*

1080-18-70 and 1080-19-70 High Friction Surface Treatment

- EB and WB USH 12 single lane closures using SDD Traffic Control, Lane Closure, Speed Reduction and Traffic Control Cones 42-inch

26. Resin Binder High Friction Surface Treatment Modified, Item SPV.0180.01.

Replace the entire article language with the following:

A Description

This special provision describes providing a high friction surface treatment (HFST) composed of aggregate in a resin binder on HMA or concrete pavements.

B Materials

B.1 Resin Binder

Supply a two-part thermosetting resin binder which is compatible with the pavement type, bonds to the pavement surface, holds the aggregate firmly in place in a broad range of climates including below-freezing temperatures, and meets the requirements specified in Table 1. Supply a primer if recommended by the resin binder manufacturer.

Table 1. Resin Binder Properties

Property	Requirements	Test Method*
Viscosity	7 – 30 poises	ASTM D2556 1-pint specimen
Gel Time	10-minute minimum	AASHTO M 235M/M 235 Type III
Ultimate Tensile Strength	2,000 – 5,000 psi @ 7 days	AASHTO M 235M/M 235 Type III
Elongation at Break	30% - 70% @ 7 days	AASHTO M 235M/M 235 Type III
Compressive Strength	≥ 1000 psi @ 3 hrs & ≥ 5000 psi @ 7 days	ASTM C579
Water Absorption	≤ 1.0 % @ 24-hr	AASHTO M 235M/M 235 Type III
Shore D Hardness	60 – 80 @ 7 days	ASTM D2240** Type 1 precision, Type D method
Cure Rate	≤ 3 hours (Dry Through Time)	ASTM D1640 50-55 wet mil thickness**
Adhesive Strength	250 psi @ 24 hours or 100% substrate failure	ASTM D4541**

* Prepare samples per manufacturer's recommendation; cure two sets of specimens at 73 ± 2° F and at 50 ± 2° F; and test all specimens at 73 ± 2° F

** Conduct testing on applicable pavement type

B.2 Aggregate

Furnish calcined bauxite aggregate that is fractured or angular in shape; resistant to polishing and crushing; clean and free of surface moisture; free from silt, clay, asphalt, or other organic materials; compatible with the resin binder; and meet the properties and gradation requirements in Tables 2 and 3. Check with resin binder manufacturer for any compatibility requirements or concerns. **The calcined bauxite will be delivered to the construction site in clearly labeled packaging; which protects the aggregate from any contaminants on the jobsite and from exposure to rain or other moisture.**

Table 2. Aggregate Properties

Property	Requirements	Test Method
• Moisture Content	• $\leq 0.2\%$	• AASHTO T 255
• Fine Aggregate Angularity	• $\geq 45\%$	• AASHTO T 304, Method A
• LA Wear	• $\leq 10\%$ loss @ 100 revolutions and $\leq 25\%$ loss @ 500 revolutions	• AASHTO T 96
• Freeze-Thaw Soundness	• $\leq 9\%$ loss @ 50, 16, or 25 cycles using Procedure A, B, or C, respectively	• AASHTO T 103
• Aluminum Oxide	• $\geq 87\%$	• ASTM C 25

Table 3. Aggregate Gradation (AASHTO T27)

Sieve Size	% Passing by Weight
• No. 4	• 100
• No. 6	• 95-100
• No. 16	• 0-5
• No. 30	• 0-1

B.3 Approval of High Friction Surface Treatment

A minimum of 20 working days before applying HFST, submit product data sheets and specifications from the manufacturer, and a certified test report from an independent laboratory verifying that the resin binder and the calcined bauxite aggregate meet all the requirements specified in Tables 1, 2 and 3. Documents must be dated within three years of project letting date; must be representative of the material used on the project.

If resin binder has not been previously used in Wisconsin, also submit a list of at least five reference projects where the resin binder has been used for similar applications and in locations that have similar climatic conditions as Wisconsin. Supply a description of the projects along with contact information of the facility owner.

If the engineer requests, provide samples of the resin binder and aggregate for department testing before applying HFST.

C Construction

C.1 General

The contractor will provide documentation showing HFST application experience from at least three previous projects completed for WisDOT or other agencies.

Conduct a meeting with the resin binder manufacturer representatives before applying HFST to establish procedures for maintaining optimum working conditions and coordination of the work. Submit recommended application procedures, including quality control practices, to the engineer for approval. Ensure that a resin

binder manufacturer representative is on site to provide technical assistance and quality assurance during surface preparation and for application of HFST.

Ensure that the resin binder components maintain their original properties during storage and handling. Store all aggregate in a dry environment and protect from contaminants on the job site.

C.2 Pavement Surface Preparation

C.2.1. Pavement Surface Repair

Remove visibly unsound or disintegrated areas of the pavement surface as the plans show or the engineer directs.

Check with resin binder manufacturer to ensure that products used for pavement repairs or patches are compatible with the resin HFST. **Ensure that any new concrete or repairs are fully cured before placing the HFST.** Allow a minimum 30-day curing time after placing new asphalt or concrete pavement before installing the HFST.

C.2.2 Surface Preparation

Cover and protect utilities, drainage structures, expansion joints on bridge decks, and other structures within or adjacent to the application location to prevent materials from adhering to or entering those structures.

Remove pavement markings that are within the treatment area. Cover existing pavement markings adjacent to the application if they are to remain in place.

Pretreat all joints and cracks, or any portion of cracks, that are greater than ¼ inch wide, with the mixed binder resin system specified herein. Once the binder resin in the pretreated area has galled, the installation may proceed.

Completely remove any grease, oil or other deleterious materials resting on the pavement surface with a mild detergent solution, rinsed with clean potable water, and dried using a hot compressed air lance. Ensure the pavement surface has no curing compound, loosely bonded mortar, pavement marking, or other foreign matter resting on the pavement surface.

Sufficiently clean HMA pavement surface using mechanical sweepers and high-pressure air wash with sufficient oil traps, just before applying HFST. Mechanically sweep all surfaces to remove dirt, loose aggregate, debris, and deleterious material. Vacuum sweep or air wash using a minimum of 180 cfm of clean and dry compressed air, all surfaces to remove all dust, debris, and deleterious material. Maintain air lance perpendicular to the surface and the tip of the air lance within 12 in. of surface.

Clean concrete pavement surface by shot blasting and vacuum sweeping. Shot blast all surfaces to remove all curing compound, loosely bonded mortar, surface carbonation, and deleterious material. After shot blasting, vacuum sweep or air wash, with a minimum of 180 cfm of clean and dry compressed air, all surfaces to remove all dust, debris, and deleterious material. Maintain air lance perpendicular to the surface and the tip of the air lance within 12 in. of the surface.

If the engineer requires additional verification of adequate surface preparation of the pavement, test the bond strength according to ASTM D4541. The surface is acceptable if the tensile bond strength is greater than or equal to 250 psi, or failure is in the substrate. Repeat cleaning, and testing, if needed, until passing test results are obtained or the surface is acceptable to the engineer.

Keep vehicles and unnecessary equipment off the cleaned surface; only allow HFST application equipment on the clean surface. Apply HFST as soon as possible after pavement surface preparations are completed.

C.3 Application of the HFST

Do not apply the HFST if any of the following exists:

Pavement surface is wet, damp, or has received rainfall in the previous 24 hours.
Pavement surface is not sufficiently clean.
Ambient air or pavement surface temperature is below 50° F or below the manufacturer's recommendations
If the anticipated weather conditions would prevent adequate curing of the HFST.
Rain is predicted before HFST completion or proper cure is achieved.
Pavement preparation is inadequate or didn't pass pull-off test.

Close treatment areas to traffic until HFST is completely cured and pavement surface has been vacuum-swept.

Construct HFST to the full width of the existing pavement surface, or as the plans show. Extend the HFST application 2'-3' onto the shoulders if application site is on a curve where no rumble strip exists. If the rumble strip exists, apply HFST only on the main lane not on the shoulder.

Apply a primer to the pavement surface if recommended by the resin binder manufacturer, and according to their application recommendations. Abide by the established quality control practices and adhere to any additional manufacturer recommendations for HFST application.

Blend and mix the resin binder components at the manufacturer's specified ratio using equipment capable of providing the desired results.

Apply the resin binder uniformly over the pavement surface manually or with automated equipment at a uniform thickness of 50-65 mils (25-32 ft²/gal). Use enough resin to cover the pavement surface and sufficiently embed half the thickness of the aggregate; do not apply so much that it covers the aggregate and creates a slick surface. Adjust application rate, as needed, based on the pavement surface type, profile, and condition.

If using automated equipment, the binder resin system manufacturer shall approve the use of automated continuous application device with their material. Ensure that the equipment features positive displacement, volumetric metering, and can store, mixing, heating, monitoring, and distributing the binder components at the proper mix ratio. Adjust the pressure and the speed of the equipment to achieve the proper application thickness. Coverage rate is based upon expected variance in the surface profile of the pavement.

Do not contaminate the wet binder or allow the binder material to separate or cure, and impair bonding of the aggregate.

Immediately after applying the resin binder, distribute a sufficient quantity of dry calcined bauxite aggregate to completely cover the resin binder by hand broadcasting or by using a standard chip spreader or equivalent machine. Ensure aggregate is placed within five minutes of the resin binder placement, before it begins to cure. When broadcasting, sprinkle or drop the aggregate onto the resin binder vertically. Do not distribute aggregate in a way that will cause it to roll in the resin binder before coming to a rest; do not push the aggregate into position with a broom or any other hand tool. If using a chip spreader, the machine shall follow closely behind the crew or equipment applying the resin binder. Immediately cover any visible wet or bare spots, or areas with excessive binder, with additional calcined bauxite aggregate before the resin binder begins to set.

Allow the HFST to properly cure, adhering to manufacturer recommendations for minimum cure times at applicable temperatures.

After the HFST is fully cured, remove excess loose surface aggregate by sweeping, blowing, or vacuuming. Do not tear or otherwise damage the surface. Excess calcined bauxite aggregate that is recovered by a vacuum sweeper can be reused if clean, uncontaminated and dry. Remove and replace damaged areas or areas with excess or insufficient aggregate coverage. Uncover pavement markings and repair damages that occur by covering and uncovering markings. Clean expansion joints, utilities, and drainage structures of all

debris before opening to traffic.

Additionally, within 3 to 7 days after opening to traffic, the contractor shall vacuum sweep the pavement surface to remove loosened aggregate from the high friction surface area, the shoulders, and any other areas within and immediately adjacent to the HFST site.

D Measurement

The department will measure Resin Binder High Friction Surface Treatment by the square yard acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Resin Binder High Friction Surface Treatment	SY

Payment for Resin Binder High Friction Surface Treatment is full compensation for testing materials; for surface preparation; for providing the HFST; for cleanup including uncovering and restoration of pavement markings; and for vacuum sweeping and disposing of excess material after the completion and again 3 to 7 days after completion.

The department will pay for pavement repairs, and traffic control separately under other contract bid items or, absent the appropriate bid items, as extra work.

Schedule of Items

Attached, dated November 7, 2019, are the revised Schedule of Items Pages 1 – 10.

Plan Sheets

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

Revised: 1080-18-70 – 183, 190 and 191. 1080-19-70 – 143, 144, 147, and 149.

Added: 1080-18-70 – 83A

END OF ADDENDUM

BASE AGGREGATE

305.0110	*	305.0120	305.0500	311.0110	*
BASE AGGREGATE DENSE		SHAPING	BREAKER		
3/4-INCH	1 1/4-INCH	TONS	STA	TON	
455	--	--	370	--	
318	3,496	--	--	--	3,844
193	874	--	--	--	961
TOTAL	966	4,370	370		4,805

*ADDITIONAL QUANTITIES ELSEWHERE

CLEARING

201.0120	201.0120
USH 12 EB - STA 111+00	12
USH 12 EB - STA 113+00	10
TOTAL	22

NOTES: INCLUDED FOR USE WITH BASE AGGREGATE ITEMS

WATER

624.0100	624.0100
USH 12 EB	88
TOTAL	88

Addendum No. 1
ID 1080-18-70
Revised Sheet 183
11/6/2019

ASPHALT

204.0115	204.0125	455.0605	460.6223	460.6224	465.0105	465.0125	465.0400	SPV.0180.01
REMOVING ASPHALTIC SURFACE	MILLING	TACK COAT	HMA PAVEMENT	ASPHALTIC SURFACE	ASPHALTIC SURFACE	TEMPORARY SURFACE	ASPHALTIC SHOULDER	RESIN BINDER
BUTT JOINTS	TON	GAL	3 MT 58-28 S	4 MT 58-28 S	ASPHALTIC SURFACE	RUMBLE STRIPS	SHOULDER	HIGH FRICTION
SY	TON		TON	TON	TON			SURFACE TREATMENT
2,056	18,974	20,607	14,846	16,844	--	78,012	--	SY
--	1,430	836	947	799	--	--	--	6,933
--	109	5	--	--	1,159	--	--	--
--	92	--	--	--	109	--	--	--
--	115	--	--	--	92	--	--	--
--	88	--	--	--	115	--	--	--
--	81	--	--	--	88	--	--	--
TOTAL	20,889	21,448	15,793	17,643	485	78,012	78,012	6,933

*ADDITIONAL QUANTITIES ELSEWHERE

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

CONSTRUCTION STAKING

LOCATION	650.4000	650.4500	650.5000	650.6000	650.7000	650.8000	650.9910	650.9920	SPV.0075.01
STORM SEWER EACH	3								
PROJECT LIMITS						40,844	1		20
CROSSOVER		1,300						625	
CULVERT PIPE REPLACEMENT, LINERS				11					
CONCRETE PAVEMENT		710			710				
TOTAL	3	2,010	1,300	11	710	40,844	1	625	20

SAWING ASPHALT

LOCATION	LF	COMMENTS
STA 108+96	110	CULVERT PIPE REPLACEMENT
BEGIN PROJECT	35	
STA 117+00 TO STA 130+00	2,237	CROSSOVER
STA 134+00	74	CULVERT PIPE REPLACEMENT
STA 161+45	34	LIMITS OF CONCRETE PAVEMENT
STA 168+55	34	LIMITS OF CONCRETE PAVEMENT
STA 173+99	74	CULVERT PIPE REPLACEMENT
STA 198+32	35	
STA 201+00	74	CULVERT PIPE REPLACEMENT
STA 206+00	74	CULVERT PIPE REPLACEMENT
STA 216+92	74	CULVERT PIPE REPLACEMENT
STA 236+67	35	
STA 246+37	6	SHOULDER REPAIR
STA 255+45	6	SHOULDER REPAIR
STA 289+12	50	
PELL LAKE DR	240	
STA 303+00	50	
STA 314+95	148	CULVERT PIPE REPLACEMENT
STA 380+60	6	SHOULDER REPAIR
STA 388+30	6	SHOULDER REPAIR
STA 448+64	6	SHOULDER REPAIR
STA 458+25	6	SHOULDER REPAIR
STA 492+05	6	SHOULDER REPAIR
STA 499+40	6	SHOULDER REPAIR
STA 516+99	50	
STA 538+99	35	
END PROJECT	35	
TOTAL	3,546	

Addendum No. 1
 ID 1080-18-70
 Revised Sheet 190
 11/6/2019

NOTE: UNLESS OTHERWISE NOTED,
 ALL ITEMS ARE CATEGORY 0010

Addendum No. 1
ID 1080-18-70
Revised Sheet 191
11/6/2019

TRAFFIC CONTROL																									
LOCATION	SIGN FLAGS			DELINEATORS TEMPORARY (SINGLE-SIDED)			DELINEATORS TEMPORARY (DOUBLE-SIDED)			PERMANENT			TRAFFIC CONTROL												
	633.1100	637.0620	643.0300	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.0920	643.1000	643.1070												
STAGE 1	-	-	88	1,848	4	84	-	-	-	21	189	-	294	-	3	63	52	1,092	1	9	9	198	-	-	
STAGE 2	-	-	283	14,716	34	1,768	778	-	-	69	3,588	91	4,732	3	156	244	12,688	3	306	1	1	1	-	-	-
STAGE 4A	-	-	88	1,584	44	792	104	-	-	88	1,584	47	846	2	36	82	1,476	-	-	-	-	-	-	-	-
STAGE 4B	-	-	690	13,110	44	836	-	-	-	88	1,672	75	1,425	2	38	82	1,476	-	-	-	-	-	-	-	-
STAGE 4B DETOUR	-	-	17	17	7	7	-	-	-	14	14	-	-	-	-	86	86	-	-	-	-	-	-	-	-
STAGE 4C	-	-	4	518	5,180	44	440	-	-	88	880	46	460	-	-	75	750	-	-	-	-	-	-	-	-
HF-ST APPLICATION	-	-	33	198	2	12	-	-	-	4	24	18	108	1	6	8	48	-	-	-	-	-	-	-	-
UNDISTRIBUTED	-	-	3,655	394	388	88	970	970	8,652	787	30	19,714	40	329	8,746	8,652	329	19,714	40	329	1,567	36	216	1,567	
TOTAL	66	19	40,318	4,333	970	970	8,746	8,652	329	19,714	40	391	17,236												

TRAFFIC CONTROL CONTINUED																									
LOCATION	SIGN FLAGS			DELINEATORS TEMPORARY (SINGLE-SIDED)			DELINEATORS TEMPORARY (DOUBLE-SIDED)			PERMANENT			TRAFFIC CONTROL												
	633.1100	637.0620	643.0300	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.0920	643.1000	643.1070												
STAGE 1	-	-	88	1,848	4	84	-	-	-	21	189	-	294	-	3	63	52	1,092	1	9	9	198	-	-	
STAGE 2	-	-	283	14,716	34	1,768	778	-	-	69	3,588	91	4,732	3	156	244	12,688	3	306	1	1	1	-	-	
STAGE 4A	-	-	88	1,584	44	792	104	-	-	88	1,584	47	846	2	36	82	1,476	-	-	-	-	-	-	-	
STAGE 4B	-	-	690	13,110	44	836	-	-	-	88	1,672	75	1,425	2	38	82	1,476	-	-	-	-	-	-	-	
STAGE 4B DETOUR	-	-	17	17	7	7	-	-	-	14	14	-	-	-	-	86	86	-	-	-	-	-	-	-	
STAGE 4C	-	-	4	518	5,180	44	440	-	-	88	880	46	460	-	-	75	750	-	-	-	-	-	-	-	
HF-ST APPLICATION	-	-	33	198	2	12	-	-	-	4	24	18	108	1	6	8	48	-	-	-	-	-	-	-	
UNDISTRIBUTED	-	-	3,655	394	388	88	970	970	8,652	787	30	19,714	40	329	8,746	8,652	329	19,714	40	329	1,567	36	216	1,567	
TOTAL	66	19	40,318	4,333	970	970	8,746	8,652	329	19,714	40	391	17,236												

TRAFFIC CONTROL CONTINUED																									
LOCATION	SIGN FLAGS			DELINEATORS TEMPORARY (SINGLE-SIDED)			DELINEATORS TEMPORARY (DOUBLE-SIDED)			PERMANENT			TRAFFIC CONTROL												
	633.1100	637.0620	643.0300	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.0920	643.1000	643.1070												
STAGE 1	-	-	88	1,848	4	84	-	-	-	21	189	-	294	-	3	63	52	1,092	1	9	9	198	-	-	
STAGE 2	-	-	283	14,716	34	1,768	778	-	-	69	3,588	91	4,732	3	156	244	12,688	3	306	1	1	1	-	-	
STAGE 4A	-	-	88	1,584	44	792	104	-	-	88	1,584	47	846	2	36	82	1,476	-	-	-	-	-	-	-	
STAGE 4B	-	-	690	13,110	44	836	-	-	-	88	1,672	75	1,425	2	38	82	1,476	-	-	-	-	-	-	-	
STAGE 4B DETOUR	-	-	17	17	7	7	-	-	-	14	14	-	-	-	-	86	86	-	-	-	-	-	-	-	
STAGE 4C	-	-	4	518	5,180	44	440	-	-	88	880	46	460	-	-	75	750	-	-	-	-	-	-	-	
HF-ST APPLICATION	-	-	33	198	2	12	-	-	-	4	24	18	108	1	6	8	48	-	-	-	-	-	-	-	
UNDISTRIBUTED	-	-	3,655	394	388	88	970	970	8,652	787	30	19,714	40	329	8,746	8,652	329	19,714	40	329	1,567	36	216	1,567	
TOTAL	66	19	40,318	4,333	970	970	8,746	8,652	329	19,714	40	391	17,236												

TRAFFIC CONTROL CONTINUED																									
LOCATION	SIGN FLAGS			DELINEATORS TEMPORARY (SINGLE-SIDED)			DELINEATORS TEMPORARY (DOUBLE-SIDED)			PERMANENT			TRAFFIC CONTROL												
	633.1100	637.0620	643.0300	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.0920	643.1000	643.1070												
STAGE 1	-	-	88	1,848	4	84	-	-	-	21	189	-	294	-	3	63	52	1,092	1	9	9	198	-	-	
STAGE 2	-	-	283	14,716	34	1,768	778	-	-	69	3,588	91	4,732	3	156	244	12,688	3	306	1	1	1	-	-	
STAGE 4A	-	-	88	1,584	44	792	104	-	-	88	1,584	47	846	2	36	82	1,476	-	-	-	-	-	-	-	
STAGE 4B	-	-	690	13,110	44	836	-	-	-	88	1,672	75	1,425	2	38	82	1,476	-	-	-	-	-	-	-	
STAGE 4B DETOUR	-	-	17	17	7	7	-	-	-	14	14	-	-	-	-	86	86	-	-	-	-	-	-	-	
STAGE 4C	-	-	4	518	5,180	44	440	-	-	88	880	46	460	-	-	75	750	-	-	-	-	-	-	-	
HF-ST APPLICATION	-	-	33	198	2	12	-	-	-	4	24	18	108	1	6	8	48	-	-	-	-	-	-	-	
UNDISTRIBUTED	-	-	3,655	394	388	88	970	970	8,652	787	30	19,714	40	329	8,746	8,652	329	19,714	40	329	1,567	36	216	1,567	
TOTAL	66	19	40,318	4,333	970	970	8,746	8,652	329	19,714	40	391	17,236												

TRAFFIC CONTROL CONTINUED																									
LOCATION	SIGN FLAGS			DELINEATORS TEMPORARY (SINGLE-SIDED)			DELINEATORS TEMPORARY (DOUBLE-SIDED)			PERMANENT			TRAFFIC CONTROL												
	633.1100	637.0620	643.0300	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.0920	643.1000	643.1070												
STAGE 1	-	-	88	1,848	4	84	-	-	-	21	189	-	294	-	3	63	52	1,092	1	9	9	198	-	-	
STAGE 2	-	-	283	14,716	34	1,768	778	-	-	69	3,588	91	4,732	3	156	244	12,688	3	306	1	1	1	-	-	
STAGE 4A	-	-	88	1,584	44	792	104	-	-	88	1,584	47	846	2	36	82	1,476	-	-	-	-	-	-	-	
STAGE 4B	-	-	690	13,110	44	836	-	-	-	88	1,672	75	1,425	2	38	82	1,476	-	-	-	-	-	-	-	
STAGE 4B DETOUR	-	-	17	17	7	7	-	-	-	14	14	-	-	-	-	86	86	-	-	-	-	-	-	-	
STAGE 4C	-	-	4	518	5,180	44	440	-	-	88	880	46	460	-	-	75	750	-	-	-	-	-	-	-	
HF-ST APPLICATION	-	-	33	198	2	12	-	-	-	4	24	18	108	1	6	8	48	-	-	-	-	-	-	-	
UNDISTRIBUTED	-	-	3,655	394	388	88	970	970	8,652	787	30	19,714	40	329	8,746	8,652	329	19,714	40	329	1,567	36	216	1,567	
TOTAL	66	19	40,318	4,333	970	970	8,746	8,652	329	19,714	40	391	17,236												

TRAFFIC CONTROL CONTINUED																								
LOCATION	SIGN FLAGS			DELINEATORS TEMPORARY (SINGLE-SIDED)			DELINEATORS TEMPORARY (DOUBLE-SIDED)			PERMANENT			TRAFFIC CONTROL											
	633.1100	637.0620	643.0300	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.0920	643.1000	643.1070											
STAGE 1	-	-	88	1,848	4	84	-	-	-	21	189	-	294	-	3	63	52	1,092	1	9	9	198	-	-
STAGE 2	-	-	283	14,716	34	1,768	778	-	-	69	3,588	91	4,732	3	156	244	12,688	3	306	1	1	1	-	-
STAGE 4A	-	-	88	1,584	44	792	104	-	-	88	1,584	47	846	2	36	82	1,476	-	-	-	-	-	-	-
STAGE 4B	-	-	690	13,110	44	836	-	-	-	88	1,672	75	1,425	2	38	82	1,476	-	-					

GRUBBING

LOCATION	201.0210
UNDISTRIBUTED	50
TOTAL	50

WATER

LOCATION	624.0100
UNDISTRIBUTED	95
TOTAL	95

NOTES: INCLUDED FOR USE WITH BASE AGGREGATE ITEMS

BASE AGGREGATE

LOCATION	305.0110
UNDISTRIBUTED	1372
TOTAL	1715

368

*ADDITIONAL QUANTITIES ELSEWHERE

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ASPHALT

204.0115	204.0125	455.0605	460.6223	460.6224	465.0400	SPV.0180.01
REMOVING	PREPARE				ASPHALTIC	RESIN BINDER
ASPHALTIC SURFACE	FOUNDATION FOR				SHOULDER	HIGH FRICTION
BUTT JOINTS	ASPHALTIC SHOULDERS	TACK COAT	3 MT 58-28 S	4 MT 58-28 S	RUMBLE STRIPS	SURFACE TREATMENT
SY	STA	GAL	TON	TON	LF	SY
4,117	50	19,986	16,636	18,652	90,000	6,933
4,117	50	19,986	16,636	18,652	90,000	6,933
TOTAL						

*ADDITIONAL QUANTITIES ELSEWHERE

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

SHEET: 143

PROJECT NO: 1080-19-70

HWY: US 12 (WB)

COUNTY: WALWORTH

MISCELLANEOUS QUANTITIES

FILE NAME:

PLOT DATE:

PLOT BY:

PLOT SCALE: 1:1

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EXCAVATION COMMON

LOCATION	CY
USH 12, STA 246+37 TO STA 253+95	2,225
USH 12, STA 448+64 TO STA 456+46	2,296
USH 12, STA 492+05 TO STA 499+40	2,161
WALWORTH ST, EB, STA 20+30 TO STA 35+13, LT	92
WALWORTH ST, EB, STA 20+30 TO STA 35+13, RT	36
WALWORTH ST, WB, STA 19+80 TO STA 35+13, LT	46
WALWORTH ST, WB, STA 19+80 TO STA 35+13, RT	95
UNDISTRIBUTED	662
TOTAL	7,613

CONCRETE PAVEMENT

US 12 WB	3/4-INCH	305.0110	305.0120	311.0110	415.0095	455.0605	460.6224
TON	TON	BASE AGGREGATE DENSE 1 1/4-INCH	TON	BREAKER RUN	CONCRETE PAVEMENT 9 1/2-INCH (DOWELED)	TACK COAT 4 MT 58-28 S	HMA PAVEMENT
90	1,204	1,204	1,585	2,021	4	4	223
93	1,242	1,242	1,636	2,085	6	6	230
87	1,167	1,167	1,541	1,960	4	4	216
68	903	903	1,191	-	-	-	-
TOTAL	338	4,516	5,953	6,066	14	14	669

*ADDITIONAL QUANTITIES ELSEWHERE

UNDERDRAIN

310.0110	612.0106	612.0206	645.0111
BASE AGGREGATE OPEN-GRADED	PIPE UNDERDRAIN	PIPE UNDERDRAIN	APRON ENDWALLS FOR UNDERDRAIN
TON	6-INCH LF	6-INCH LF	GEOTEXTILE TYPE DF SCHEDULE A
132	1,516	126	1,012
136	1,564	144	1,044
128	1,470	162	980
TOTAL	4,550	432	3,036

MARKING OUTFALL EPOXY

LOCATION	PROJECT LIMITS
646.5520	205
EACH	205
TOTAL	205

PROJECT NO: 1080-19-70

HWY: US 12 (WB)

COUNTY: WALWORTH

MISCELLANEOUS QUANTITIES

SHEET: 144

E

FILE NAME:

PLOT DATE:

PLOT BY:

PLOT SCALE: 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

TRAFFIC CONTROL																					
LOCATION	637.0620 SIGN FLAGS PERMANENT		643.0300 DRUMS		643.0420 BARRICADES TYPE III		643.0500 FLEXIBLE TUBULAR MARKER POSTS		643.0600 TRAFFIC CONTROL		643.0715 WARNING LIGHTS		643.0800 ARROW		643.0900 TRAFFIC CONTROL		643.1000 TRAFFIC CONTROL		646.9000 REMOVAL LINE MARKING		
	(SINGLE-SIDED) EACH	TYPE II EACH	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	TYPE A EACH	TYPE C EACH	BOARDS EACH	DAY	COVERING EACH	SIGNS TYPE II EACH	MESSAGE SF	CONES 42-INCH EACH	DAY	LF	
STAGE 3	37	5	259	20,461	36	2,844	779	779	81	6,399	81	6,399	3	237	250	19,750	7	22	-	-	6,256
STAGE 4A	-	-	39	702	5	90	-	-	14	252	13	234	2	36	38	684	1	-	43	774	165
STAGE 4B	-	-	83	1,577	5	95	-	-	14	266	14	266	2	38	36	684	-	22	44	836	165
STAGE 4C	-	-	82	820	5	50	-	-	10	100	10	100	2	20	26	260	-	-	-	-	165
STAGE 4D	-	-	104	1,040	-	-	-	-	-	-	-	-	2	20	16	160	-	-	-	-	-
WAL WORTH STREET	-	-	33	198	2	12	-	-	4	24	18	108	1	6	8	48	-	-	36	216	-
HFS APPLICATION	-	-	2,480	-	309	-	78	78	704	711	-	-	36	-	2,159	-	1	-	183	-	-
UNDISTRIBUTED	-	-	2,480	-	309	-	78	78	704	711	-	-	36	-	2,159	-	1	-	183	-	-
TOTAL	37	5	2,727	27,278	3,400	857	857	7,745	7,818	393	23,745	9	44.0	2,009	6,751						

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TRAFFIC CONTROL CONTINUED

LOCATION	649.0105 TEMPORARY MARKING LINE		649.0150 TEMPORARY MARKING LINE	
	PAINT 4-INCH (WHITE) (YELLOW) LF	REMOVABLE TAPE 4-INCH (WHITE) (YELLOW) LF	PAINT 4-INCH (WHITE) (YELLOW) LF	REMOVABLE TAPE 4-INCH (WHITE) (YELLOW) LF
STAGE 3	78,125	80,000	-	660
STAGE 4A	-	-	-	660
STAGE 4B	-	-	660	-
STAGE 4C	-	-	-	660
WAL WORTH STREET	-	-	-	-
UNDISTRIBUTED	-	-	-	-
TOTAL	158,125	2,640		

SAWING ASPHALT

LOCATION	LF
690.0150	99
CTH HWAL WORTH ST	58
STA 98+58, STA 107+00	35
STA 288+00	469
PELL LAKE DIR	35
STA 300+00	35
STA 381+23	35
STA 388+40	210
CONCRETE PAVEMENT SECTIONS	35
END PROJECT	35
TOTAL	1,011

CONSTRUCTION STAKING

LOCATION	LF	CONCRETE PAVEMENT LF	RESURFACING REFERENCE LF	SUPPLEMENTAL CONTROL (1080-19-70) LS	MISCELLANEOUS HRS
650.4500	650.8000	650.7000	650.8000	650.9910	SPV.0075.01
SUBGRADE LF	PIPE CULVERTS EACH	CONCRETE PAVEMENT LF	RESURFACING REFERENCE LF	SUPPLEMENTAL CONTROL (1080-19-70) LS	MISCELLANEOUS HRS
-	2	-	48,974	1	20
2,275	2	2,275	48,974	1	20
TOTAL	2,275	2,275	48,974	1	20

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

FILE NAME: _____ PLOT DATE: _____ PLOT BY: _____ PLOT SCALE: 1:1

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PWL Mixture Use Table

The following acceptance criteria are applicable for this project:

Location	Station	Mixture Use	Underlying Surface	Bid Item	Tons	Thickness	Quality Management Program to be used for:	
							Mixture Acceptance	Density Acceptance
USH 12 Mainline	95+25 to 546+42	Lower Layer	Milled Existing HMA Surface	3 MT 58-28 S	14580	2-1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
USH 12 Mainline	95+25 to 546+42	Upper Layer	3 MT 58-28 S	4 MT 58-28 S	11341	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
USH 12 Mainline Shoulders	95+25 to 546+42	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	5425	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
Pell Lake On Ramp	10+24 to 24+00	Lower Layer	Milled Existing HMA Surface	3 MT 58-28 S	390	2-1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
Pell Lake On Ramp and Shoulders	10+24 to 24+00	Upper Layer	3 MT 58-28 S	4 MT 58-28 S	465	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
Pell Lake Off Ramp	12+50 to 21+77	Lower Layer	Milled Existing HMA Surface	3 MT 58-28 S	210	2-1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
Pell Lake Off Ramp and Shoulders	12+50 to 21+77	Upper Layer	3 MT 58-28 S	4 MT 58-28 S	266	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
WB Walworth St. (USH 12) Mainline	19+30 to 35+63	Lower Layer	Milled Existing HMA Surface	3 MT 58-28 S	527	2-1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
WB Walworth St. (USH 12) Mainline	19+30 to 35+63	Upper Layer	3 MT 58-28 S	4 MT 58-28 S	410	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
WB Walworth St. (USH 12) Shoulders	19+30 to 35+63	Lower Layer	Base Aggregate	3 MT 58-28 S	180	2-1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
WB Walworth St. (USH 12) Shoulders	19+30 to 35+63	Upper Layer	3 MT 58-28 S	4 MT 58-28 S	141	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
EB Walworth St. (USH 12) Mainline	18+80 to 35+63	Lower Layer	Milled Existing HMA Surface	3 MT 58-28 S	469	2-1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
EB Walworth St. (USH 12) Mainline	18+80 to 35+63	Upper Layer	3 MT 58-28 S	4 MT 58-28 S	365	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
EB Walworth St. (USH 12) Shoulders	18+80 to 35+63	Lower Layer	Base Aggregate	3 MT 58-28 S	165	2-1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
EB Walworth St. (USH 12) Shoulders	18+80 to 35+63	Upper Layer	3 MT 58-28 S	4 MT 58-28 S	128	1-3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive
Pell Lake Drive	12+00 to 22+25	Upper Layer	Milled Existing HMA Surface	4 MT 58-28 S	428	2"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0120 Clearing	22.000 ID	_____.	_____.
0004	201.0210 Grubbing	50.000 SY	_____.	_____.
0006	203.0100 Removing Small Pipe Culverts	10.000 EACH	_____.	_____.
0008	204.0115 Removing Asphaltic Surface Butt Joints	6,173.000 SY	_____.	_____.
0010	204.0125 Removing Asphaltic Surface Milling	42,826.000 TON	_____.	_____.
0012	204.0165 Removing Guardrail	48.000 LF	_____.	_____.
0014	204.9060.S Removing (item description) 01. Existing Endwall	15.000 EACH	_____.	_____.
0016	204.9060.S Removing (item description) 02. Corrugated Steel Culvert Pipe and Restoring Cut End	22.000 EACH	_____.	_____.
0018	205.0100 Excavation Common	12,901.000 CY	_____.	_____.
0020	211.0400 Prepare Foundation for Asphaltic Shoulders	50.000 STA	_____.	_____.
0022	213.0100 Finishing Roadway (project) 01. 1080-18-70	1.000 EACH	_____.	_____.
0024	213.0100 Finishing Roadway (project) 02. 1080-19-70	1.000 EACH	_____.	_____.
0026	305.0110 Base Aggregate Dense 3/4-Inch	3,103.000 TON	_____.	_____.
0028	305.0120 Base Aggregate Dense 1 1/4-Inch	10,478.000 TON	_____.	_____.
0030	305.0500 Shaping Shoulders	738.000 STA	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	310.0110 Base Aggregate Open-Graded	465.000 TON	_____	_____
0034	311.0110 Breaker Run	12,237.000 TON	_____	_____
0036	415.0095 Concrete Pavement 9 1/2-Inch	7,959.000 SY	_____	_____
0038	455.0605 Tack Coat	41,505.000 GAL	_____	_____
0040	460.0105.S HMA Percent Within Limits (PWL) Test Strip Volumetrics	2.000 EACH	_____	_____
0042	460.0110.S HMA Percent Within Limits (PWL) Test Strip Density	2.000 EACH	_____	_____
0044	460.2005 Incentive Density PWL HMA Pavement	54,020.000 DOL	1.00000	54,020.00
0046	460.2007 Incentive Density HMA Pavement Longitudinal Joints	32,960.000 DOL	1.00000	32,960.00
0048	460.2010 Incentive Air Voids HMA Pavement	68,940.000 DOL	1.00000	68,940.00
0050	460.6223 HMA Pavement 3 MT 58-28 S	32,703.000 TON	_____	_____
0052	460.6224 HMA Pavement 4 MT 58-28 S	37,173.000 TON	_____	_____
0054	465.0125 Asphaltic Surface Temporary	1,159.000 TON	_____	_____
0056	465.0400 Asphaltic Shoulder Rumble Strips	168,012.000 LF	_____	_____
0058	504.0900 Concrete Masonry Endwalls	10.000 CY	_____	_____
0060	520.8000 Concrete Collars for Pipe	2.000 EACH	_____	_____
0062	520.8700 Cleaning Culvert Pipes	4.000 EACH	_____	_____



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	520.9700.S Culvert Pipe Liners (size) 01. 30-Inch CMP	90.000 LF	_____.	_____.
0066	520.9700.S Culvert Pipe Liners (size) 02. 36-Inch CMP	371.000 LF	_____.	_____.
0068	520.9750.S Cleaning Culvert Pipes for Liner Verification	4.000 EACH	_____.	_____.
0070	521.0348 Apron Endwalls for Culvert Pipe Sloped Cross Drains Steel 48-Inch 4 to 1	1.000 EACH	_____.	_____.
0072	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	29.000 EACH	_____.	_____.
0074	521.1024 Apron Endwalls for Culvert Pipe Steel 24-Inch	1.000 EACH	_____.	_____.
0076	521.1030 Apron Endwalls for Culvert Pipe Steel 30-Inch	2.000 EACH	_____.	_____.
0078	521.1036 Apron Endwalls for Culvert Pipe Steel 36-Inch	1.000 EACH	_____.	_____.
0080	521.1507 Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 36-Inch 4 to 1	1.000 EACH	_____.	_____.
0082	522.0124 Culvert Pipe Reinforced Concrete Class III 24-Inch	152.000 LF	_____.	_____.
0084	522.0424 Culvert Pipe Reinforced Concrete Class IV 24-Inch	336.000 LF	_____.	_____.
0086	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	2.000 EACH	_____.	_____.
0088	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	15.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0090	522.2329 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45- Inch	384.000 LF	_____.	_____.
0092	603.8000 Concrete Barrier Temporary Precast Delivered	1,816.000 LF	_____.	_____.
0094	603.8125 Concrete Barrier Temporary Precast Installed	1,816.000 LF	_____.	_____.
0096	606.0100 Riprap Light	12.000 CY	_____.	_____.
0098	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	78.000 LF	_____.	_____.
0100	611.0530 Manhole Covers Type J	1.000 EACH	_____.	_____.
0102	611.2004 Manholes 4-FT Diameter	1.000 EACH	_____.	_____.
0104	612.0106 Pipe Underdrain 6-Inch	5,410.000 LF	_____.	_____.
0106	612.0206 Pipe Underdrain Unperforated 6-Inch	504.000 LF	_____.	_____.
0108	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	28.000 EACH	_____.	_____.
0110	614.0010 Barrier System Grading Shaping Finishing	2.000 EACH	_____.	_____.
0112	614.0200 Steel Thrie Beam Structure Approach	50.000 LF	_____.	_____.
0114	614.0305 Steel Plate Beam Guard Class A	480.000 LF	_____.	_____.
0116	614.0370 Steel Plate Beam Guard Energy Absorbing Terminal	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0118	614.0905 Crash Cushions Temporary	6.000 EACH	_____.	_____.
0120	614.0950 Replacing Guardrail Posts and Blocks	10.000 EACH	_____.	_____.
0122	614.0951 Replacing Guardrail Rail and Hardware	100.000 LF	_____.	_____.
0124	618.0100 Maintenance And Repair of Haul Roads (project) 01. 1080-18-70	1.000 EACH	_____.	_____.
0126	618.0100 Maintenance And Repair of Haul Roads (project) 02. 1080-19-70	1.000 EACH	_____.	_____.
0128	619.1000 Mobilization	1.000 EACH	_____.	_____.
0130	624.0100 Water	175.000 MGAL	_____.	_____.
0132	625.0100 Topsoil	200.000 SY	_____.	_____.
0134	625.0500 Salvaged Topsoil	1,797.000 SY	_____.	_____.
0136	627.0200 Mulching	1,797.000 SY	_____.	_____.
0138	628.1504 Silt Fence	500.000 LF	_____.	_____.
0140	628.1520 Silt Fence Maintenance	500.000 LF	_____.	_____.
0142	628.1905 Mobilizations Erosion Control	15.000 EACH	_____.	_____.
0144	628.1910 Mobilizations Emergency Erosion Control	7.000 EACH	_____.	_____.
0146	628.7504 Temporary Ditch Checks	648.000 LF	_____.	_____.
0148	628.7555 Culvert Pipe Checks	62.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0150	629.0210 Fertilizer Type B	2.080 CWT	_____.	_____.
0152	630.0130 Seeding Mixture No. 30	130.000 LB	_____.	_____.
0154	630.0200 Seeding Temporary	50.000 LB	_____.	_____.
0156	630.0300 Seeding Borrow Pit	50.000 LB	_____.	_____.
0158	633.1100 Delineators Temporary	103.000 EACH	_____.	_____.
0160	633.5200 Markers Culvert End	84.000 EACH	_____.	_____.
0162	634.0618 Posts Wood 4x6-Inch X 18-FT	6.000 EACH	_____.	_____.
0164	634.0814 Posts Tubular Steel 2x2-Inch X 14-FT	2.000 EACH	_____.	_____.
0166	637.0620 Sign Flags Permanent Type II	24.000 EACH	_____.	_____.
0168	637.2210 Signs Type II Reflective H	24.000 SF	_____.	_____.
0170	638.2102 Moving Signs Type II	2.000 EACH	_____.	_____.
0172	638.2602 Removing Signs Type II	1.000 EACH	_____.	_____.
0174	638.3000 Removing Small Sign Supports	7.000 EACH	_____.	_____.
0176	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0178	643.0300 Traffic Control Drums	67,596.000 DAY	_____.	_____.
0180	643.0420 Traffic Control Barricades Type III	7,733.000 DAY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0182	643.0500 Traffic Control Flexible Tubular Marker Posts	1,827.000 EACH	_____.	_____.
0184	643.0600 Traffic Control Flexible Tubular Marker Bases	1,827.000 EACH	_____.	_____.
0186	643.0705 Traffic Control Warning Lights Type A	16,491.000 DAY	_____.	_____.
0188	643.0715 Traffic Control Warning Lights Type C	16,470.000 DAY	_____.	_____.
0190	643.0800 Traffic Control Arrow Boards	722.000 DAY	_____.	_____.
0192	643.0900 Traffic Control Signs	43,459.000 DAY	_____.	_____.
0194	643.0920 Traffic Control Covering Signs Type II	78.000 EACH	_____.	_____.
0196	643.1000 Traffic Control Signs Fixed Message	435.000 SF	_____.	_____.
0198	643.1070 Traffic Control Cones 42-Inch	19,245.000 DAY	_____.	_____.
0200	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0202	645.0111 Geotextile Type DF Schedule A	3,580.000 SY	_____.	_____.
0204	645.0130 Geotextile Type R	33.000 SY	_____.	_____.
0206	646.1020 Marking Line Epoxy 4-Inch	10,770.000 LF	_____.	_____.
0208	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch	184,912.000 LF	_____.	_____.
0210	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	560.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0212	646.1555 Marking Line Grooved Contrast Permanent Tape 4-Inch	22,737.000 LF	_____.	_____.
0214	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	2,191.000 LF	_____.	_____.
0216	646.3555 Marking Line Grooved Contrast Permanent Tape 8-Inch	3,979.000 LF	_____.	_____.
0218	646.5020 Marking Arrow Epoxy	18.000 EACH	_____.	_____.
0220	646.5120 Marking Word Epoxy	5.000 EACH	_____.	_____.
0222	646.5520 Marking Outfall Epoxy	368.000 EACH	_____.	_____.
0224	646.6120 Marking Stop Line Epoxy 18-Inch	133.000 LF	_____.	_____.
0226	646.7120 Marking Diagonal Epoxy 12-Inch	481.000 LF	_____.	_____.
0228	646.7220 Marking Chevron Epoxy 24-Inch	328.000 LF	_____.	_____.
0230	646.8120 Marking Curb Epoxy	86.000 LF	_____.	_____.
0232	646.9000 Marking Removal Line 4-Inch	19,725.000 LF	_____.	_____.
0234	646.9100 Marking Removal Line 8-Inch	500.000 LF	_____.	_____.
0236	646.9200 Marking Removal Line Wide	34.000 LF	_____.	_____.
0238	649.0105 Temporary Marking Line Paint 4-Inch	240,445.000 LF	_____.	_____.
0240	649.0120 Temporary Marking Line Epoxy 4-Inch	37,730.000 LF	_____.	_____.
0242	649.0150 Temporary Marking Line Removable Tape 4-Inch	6,490.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20191112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0244	650.4000 Construction Staking Storm Sewer	3.000 EACH	_____.	_____.
0246	650.4500 Construction Staking Subgrade	4,285.000 LF	_____.	_____.
0248	650.5000 Construction Staking Base	1,300.000 LF	_____.	_____.
0250	650.6000 Construction Staking Pipe Culverts	13.000 EACH	_____.	_____.
0252	650.7000 Construction Staking Concrete Pavement	2,985.000 LF	_____.	_____.
0254	650.8000 Construction Staking Resurfacing Reference	89,818.000 LF	_____.	_____.
0256	650.9910 Construction Staking Supplemental Control (project) 01. 1080-18-70	LS	LUMP SUM	_____.
0258	650.9910 Construction Staking Supplemental Control (project) 02. 1080-19-70	LS	LUMP SUM	_____.
0260	650.9920 Construction Staking Slope Stakes	625.000 LF	_____.	_____.
0262	690.0150 Sawing Asphalt	4,557.000 LF	_____.	_____.
0264	715.0415 Incentive Strength Concrete Pavement	2,514.000 DOL	1.00000	2,514.00
0266	740.0440 Incentive IRI Ride	66,000.000 DOL	1.00000	66,000.00
0268	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	3,000.000 HRS	5.00000	15,000.00
0270	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	4,500.000 HRS	5.00000	22,500.00
0272	SPV.0060 Special 01. Sand Bags	40.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 2019112015 Project(s): 1080-18-70, 1080-19-70

Federal ID(s): WISC 2019684, WISC 2019685

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0274	SPV.0060 Special 02. Apron Endwall for Culvert Pipe Steel 22x36-Inch	1.000 EACH	_____.	_____.
0276	SPV.0075 Special 01. Contractor Staking Miscellaneous	40.000 HRS	_____.	_____.
0278	SPV.0090 Special 01. Pipe Underdrain Unperforated 24-Inch	27.000 LF	_____.	_____.
0280	SPV.0180 Special 01. Resin Binder High Friction Surface Treatment Modified	13,866.000 SY	_____.	_____.
0282	465.0105 Asphaltic Surface	485.000 TON	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

