

HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
 DT1502 10/2010 s.66.29(7) Wis. Stats.

Proposal Number:

17

<u>COUNTY</u>	<u>STATE PROJECT ID</u>	<u>FEDERAL PROJECT ID</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Chippewa, Dunn, & Eau Claire	1000-08-81		NW Region, Var Sgnlized Intersections Var Hwy & Location/Sgnl Head Per Ln	Var Hwy
Eau Claire	3700-50-26		Eau Claire - Chippewa Falls IH 94 to STH 93 (USH 53 South Sect)	USH 53
Eau Claire	3700-50-27		Eau Claire, STH 93 Golf Road Intersection	STH 93

This proposal, submitted by the undersigned bidder to the Wisconsin Department of Transportation, is in accordance with the advertised request for proposals. The bidder is to furnish and deliver all materials, and to perform all work for the improvement of the designated project in the time specified, in accordance with the appended Proposal Requirements and Conditions.

Proposal Guaranty Required, \$ 75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: July 11, 2017 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code <div style="text-align: center;">SAMPLE</div> <div style="text-align: center;">NOT FOR BIDDING PURPOSES</div>
Contract Completion Time June 30, 2018	
Assigned Disadvantaged Business Enterprise Goal <div style="text-align: right;">0%</div>	

This certifies that the undersigned bidder, duly sworn, is an authorized representative of the firm named above; that the bidder has examined and carefully prepared the bid from the plans, Highway Work Proposal, and all addenda, and has checked the same in detail before submitting this proposal or bid; and that the bidder or agents, officer, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal bid.

Do not sign, notarize, or submit this Highway Work Proposal when submitting an electronic bid on the Internet.

Subscribed and sworn to before me this date _____

 (Signature, Notary Public, State of Wisconsin)

 (Print or Type Name, Notary Public, State Wisconsin)

 (Date Commission Expires)

Notary Seal

 (Bidder Signature)

 (Print or Type Bidder Name)

 (Bidder Title)

For Department Use Only

Type of Work Monotube traffic signal poles, installation of ITS devices and fiber optic communications, Structure S-18-118, ramp closure gates, MGS guardrail, permanent signing, and traffic control.	
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

The bidder, signing and submitting this proposal, agrees and declares as a condition thereof, to be bound by the following conditions and requirements.

If the bidder has a corporate relationship with the proposal design engineering company, the bidder declares that it did not obtain any facts, data, or other information related to this proposal from the design engineering company that was not available to all bidders.

The bidder declares that they have carefully examined the site of, and the proposal, plans, specifications and contract forms for the work contemplated, and it is assumed that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the specifications, special provisions and contract. It is mutually agreed that submission of a proposal shall be considered conclusive evidence that the bidder has made such examination.

The bidder submits herewith a proposal guaranty in proper form and amount payable to the party as designated in the advertisement inviting proposals, to be retained by and become the property of the owner of the work in the event the undersigned shall fail to execute the contract and contract bond and return the same to the office of the engineer within fourteen (14) days after having been notified in writing to do so; otherwise to be returned.

The bidder declares that they understand that the estimate of quantities in the attached schedule is approximate only and that the attached quantities may be greater or less in accordance with the specifications.

The bidder agrees to perform the said work, for and in consideration of the payment of the amount becoming due on account of work performed, according to the unit prices bid in the following schedule, and to accept such amounts in full payment of said work.

The bidder declares that all of the said work will be performed at their own proper cost and expense, that they will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications and the approved plans for the work together with all standard and special designs that may be designed on such plans, and the special provisions in the contract of which this proposal will become a part, if and when accepted. The bidder further agrees that the applicable specifications and all plans and working drawings are made a part hereof, as fully and completely as if attached hereto.

The bidder, if awarded the contract, agrees to begin the work not later than ten (10) days after the date of written notification from the engineer to do so, unless otherwise stipulated in the special provisions.

The bidder declares that if they are awarded the contract, they will execute the contract agreement and begin and complete the work within the time named herein, and they will file a good and sufficient surety bond for the amount of the contract for performance and also for the full amount of the contract for payment.

The bidder, if awarded the contract, shall pay all claims as required by Section 779.14, Statutes of Wisconsin, and shall be subject to and discharge all liabilities for injuries pursuant to Chapter 102 of the Statutes of Wisconsin, and all acts amendatory thereto. They shall further be responsible for any damages to property or injury to persons occurring through their own negligence or that of their employees or agents, incident to the performance of work under this contract, pursuant to the Standard Specifications for Road and Bridge Construction applicable to this contract.

In connection with the performance of work under this contract, the contractor agrees to comply with all applicable state and federal statutes relating to non-discrimination in employment. No otherwise qualified person shall be excluded from employment or otherwise be subject to discrimination in employment in any manner on the basis of age, race, religion, color, gender, national origin or ancestry, disability, arrest or conviction record (in keeping with s.111.32), sexual orientation, marital status, membership in the military reserve, honesty testing, genetic testing, and outside use of lawful products. This provision shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor further agrees to ensure equal opportunity in employment to all applicants and employees and to take affirmative action to attain a representative workforce.

The contractor agrees to post notices and posters setting forth the provisions of the nondiscrimination clause, in a conspicuous and easily accessible place, available for employees and applicants for employment.

If a state public official (section 19.42, Stats.) or an organization in which a state public official holds at least a 10% interest is a party to this agreement, this contract is voidable by the state unless appropriate disclosure is made to the State of Wisconsin Ethics Board.

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

- (1) Obtain bidding proposals as specified in **section 102** of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:
 1. Electronic bid on the internet.
 2. Electronic bid on a printout with accompanying diskette or CD ROM.
 3. Paper bid under a waiver of the electronic submittal requirements.
- (2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.

- (3) The department will provide bidding information through the department's web site at:
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 P.M. local time on the Thursday before the letting. Check the department's web site after 5:00 P.M. local time on the Thursday before the letting to ensure all addenda have been accounted for before preparing the bid. When bidding using methods 1 and 2 above, check the Bid Express™ on-line bidding exchange at <http://www.bidx.com/> after 5:00 P.M. local time on the Thursday before the letting to ensure that the latest schedule of items Expedite file (*.ebs or *.00x) is used to submit the final bid.

- (4) Interested parties can subscribe to the Bid Express™ on-line bidding exchange by following the instructions provided at the www.bidx.com web site or by contacting:

Info Tech Inc.
5700 SW 34th Street, Suite 1235
Gainesville, FL 32608-5371
email: <mailto:customer.support@bidx.com>

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the departments web site listed above or by picking up the addenda at the Bureau of Highway Construction, Room 601, 4802 Sheboygan Avenue, Madison, WI, during regular business hours.

- (7) Addenda posted after 5:00 PM on the Thursday before the letting will be emailed to the eligible bidders for that proposal. All eligible bidders shall acknowledge receipt of the addenda whether they are bidding on the proposal or not. Not acknowledging receipt may jeopardize the awarding of the project.

B Submitting Electronic Bids

B.1 On the Internet

- (1) Do the following before submitting the bid:
 1. Have a properly executed annual bid bond on file with the department.
 2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.
- (2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:
 1. Download the latest schedule of items reflecting all addenda from the Bid ExpressTM web site.
 2. Use ExpediteTM software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of ExpediteTM software and the Bid ExpressTM web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
 4. Submit the bid before the hour and date the Notice to Contractors designates.
 5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.
- (3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

B.2 On a Printout with Accompanying Diskette or CD ROM

- (1) Download the latest schedule of items from the Wisconsin pages of the Bid ExpressTM web site reflecting the latest addenda posted on the department's web site at:
<http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

Use ExpediteTM software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid ExpressTM web site to assure that the schedule of items is prepared properly.

- (2) Staple an 8 1/2 by 11 inch printout of the ExpediteTM generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the ExpediteTM generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder

Name

BN00

Proposals: 1, 12, 14, & 22

- (3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.
- (4) The bidder-submitted printout of the ExpediteTM generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.

- (5) In addition to the reasons specified in [section 102](#) of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
1. The check code printed on the bottom of the printout of the ExpediteTM generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the ExpediteTM generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.
 3. The diskette or CD ROM is not submitted at the time and place the department designates.

C Waiver of Electronic Submittal

- (1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.
- (2) Submit a schedule of items on paper conforming to [section 102](#) of the standard specifications. The department charges the bidder a \$75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."
- (3) In addition to the reasons specified in [section 102](#) of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
 2. The bidder fails to pay the \$75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the \$75.
 3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.
- (4) In addition to the reasons specified in [section 102](#) of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

Proposal Number	Project Number	Letting Date
Name of Principal		
Name of Surety	State in Which Surety is Organized	

We, the above-named Principal and the above-named Surety, are held and firmly bound unto the State of Wisconsin in the sum equal to the Proposal Guaranty for the total bid submitted for the payment to be made; we jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. The condition of this obligation is that the Principal has submitted a bid proposal to the State of Wisconsin acting through the Department of Transportation for the improvement designated by the Proposal Number and Letting Date indicated above.

If the Principal is awarded the contract and, within the time and manner required by law after the prescribed forms are presented for signature, enters into a written contract in accordance with the bid, and files the bond with the Department of Transportation to guarantee faithful performance and payment for labor and materials, as required by law, or if the Department of Transportation shall reject all bids for the work described, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect. In the event of failure of the Principal to enter into the contract or give the specified bond, the Principal shall pay to the Department of Transportation **within 10 business days of demand** a total equal to the Proposal Guaranty as liquidated damages; the liability of the Surety continues for the full amount of the obligation as stated until the obligation is paid in full.

The Surety, for value received, agrees that the obligations of it and its bond shall not be impaired or affected by any extension of time within which the Department of Transportation may accept the bid; and the Surety does waive notice of any such extension.

IN WITNESS, the Principal and Surety have agreed and have signed by their proper officers and have caused their corporate seals to be affixed this date: **(DATE MUST BE ENTERED)**

PRINCIPAL

(Company Name) **(Affix Corporate Seal)**

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

(Name of Surety) **(Affix Seal)**

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

IMPORTANT: A certified copy of Power of Attorney of the signatory agent must be attached to the bid bond.

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

Time Period Valid (From/To)	
Name of Surety	
Name of Contractor	
Certificate Holder	Wisconsin Department of Transportation

This is to certify that an annual bid bond issued by the above-named Surety is currently on file with the Wisconsin Department of Transportation.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the annual bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing surety will give thirty (30) days written notice to the certificate holder indicated above.

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

Section 66.0901(7), Wisconsin Statutes, provides that as a part of the proposal, the bidder also shall submit a list of the subcontractors the bidder proposes to contract with and the class of work to be performed by each. In order to qualify for inclusion in the bidder's list a subcontractor shall first submit a bid in writing, to the general contractor at least 48 hours prior to the time of the bid closing. The list may not be added to or altered without the written consent of the municipality. A proposal of a bidder is not invalid if any subcontractor and the class of work to be performed by the subcontractor has been omitted from a proposal; the omission shall be considered inadvertent or the bidder will perform the work personally.

No subcontract, whether listed herein or later proposed, may be entered into without the written consent of the Engineer as provided in Subsection 108.1 of the Standard Specifications.

[illegible]

DECEMBER 2000

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER
RESPONSIBILITY MATTERS - PRIMARY COVERED TRANSACTIONS**

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.
4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.
7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR-1273 - "Required Contract Provisions Federal Aid Construction Contracts," without

modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

- (1) The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1000-08-81, NW Region, Var Sgnlized Intersections, Var Hwy & Location/Sgnl Head Per Ln, Var Hwy, Chippewa, Dunn, and Eau Claire Counties, Wisconsin; Project 3700-50-26, Eau Claire - Chippewa Falls, IH 94 to STH 93 (USH 53 South Sect), USH 53, Eau Claire County, Wisconsin; Project 3700-50-27, Eau Claire, STH 93, Golf Road Intersection, STH 93, Eau Claire County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2017 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20161130)

2. Scope of Work.

The work under this contract shall consist of monotube traffic signal poles, installation of ITS devices and fiber optic communications, Structure S-18-118, ramp closure gates, MGS guardrail, permanent signing, traffic control, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Provide the start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the approved start date.

To revise the start date, submit a written request to the engineer at least two weeks before the intended start date. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

Project 1000-08-81:

Complete all work during the 2018 construction season.

Project 3700-50-26:

Complete all work during the 2018 construction season to avoid conflicts with an anticipated resurfacing project (1190-02-81) which is scheduled for 2017 and let under a separate contract.

Project 3700-50-27:

The contractor shall schedule delivery of the monotube arms and poles. Refer to Traffic Signals & Street Lighting, General Article for scheduling details.

Complete all contract work for project 3700-50-27 prior to 12:01 AM October 15, 2017.

If the contractor fails to complete all contract work for project 3700-50-27 prior to 12:01 AM October 15, 2017, the department will assess the contractor \$2,065 in interim liquidated damages for each calendar day that any contract work for project 3700-50-27 remains incomplete after 12:01 AM, October 15, 2017. An entire calendar day will be charged for any period of time within a calendar day that any contract work for project 3700-50-27 remains incomplete beyond 12:01 AM.

If contract time expires prior to completing all work specified in the contract, additional liquidated damages will be affixed according to standard spec 108.11.

Northern Long-eared Bat (*Myotis septentrionalis*)

Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees. Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the Federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

If additional construction activities beyond what was originally specified are required to complete the work, approval from the engineer, following coordination with WisDOT REC, is required prior to initiating these activities.

4. Traffic.

The following is a general overview of the traffic control and staging required throughout all stages of the project.

Accomplish the construction sequence, including the associated traffic control as detailed in the Traffic Control plan sheets and as described herein.

Do not begin or continue any work that closes traffic lanes outside the allowed time periods specified in this article.

Any revisions to traffic control plans shall adhere to Notice to Contractor, Revisions to Traffic Control Plans.

Construction traffic shall not exit the work zone between traffic control drums set for a lane closure.

A minimum of 15 feet clear width, existing 12 feet lane width + 3 feet shoulder width, must be maintained on USH 12, STH 124, STH 93, STH 312, STH 25, and USH 53.

Keep all sidewalks and paths open during construction. Maintain a minimum clear width of 5 feet and a minimum vertical clearance of 7 ft on all sidewalks and paths.

Traffic operations during all stages

Traffic shall be maintained on existing lanes throughout construction. Traffic Control shall be implemented based on WisDOT standard detail drawings.

For Project 1000-08-81 and Project 3700-50-27, 15-minute directional full closures will be allowed for installation of monotube arms on USH 12, STH 93, STH 25, STH 312, and STH 124 during overnight hours which are defined in the Traffic Restrictions detailed below. There will not be a posted detour for the full closures. Roadway users shall be informed of the closures with advance warning signage and portable changeable message signs.

For Project 3700-50-26 there shall be lane closures during the construction of the overhead Dynamic Message Sign (DMS). The overhead DMS bases and poles can be installed with shoulder and single lane closures. When installing the truss over traffic lanes, a rolling lane closure will be allowed for a 15 minute period along northbound USH 53. Wisconsin State Highway Patrol will be on-site for the rolling lane closure. Contact the State Highway Patrol Sgt. Mike Melgaard, at (715) 236-2242 two weeks prior to the date needed for the rolling closure.

Projects 1000-08-81 & 3700-50-27: Traffic Restrictions

- Work requiring full closures shall be completed between the hours of 12:00 AM to 6:00 AM.
- Full closures will be allowed for 15 minute periods between the hours of 12:00 AM to 6:00 AM.
- For the following intersections, full closures will be allowed for 15 minute periods between the hours of 2:00 AM to 5:00 AM due to the potential for queue spillback into adjacent signalized intersections:
 - a. USH 12 & Business USH 53 West Ramps/London Road
 - b. USH 12 (Clairemont Avenue) & Otter Road
 - c. USH 12 & Business USH 53/Hastings Way East Ramps
- Work requiring single lane closures shall be completed between the hours of 9:00 AM to 3:00 PM.

Project 3700-50-26: Traffic Restrictions

- Work requiring rolling closures shall be completed during overnight hours.
- The rolling closure on USH 53 is restricted to a 15-minute period between 10:00 PM to 6:00 AM.
- Work requiring single lane closures shall be completed between the hours of 9:00 AM to 3:00 PM.

Wisconsin Lane Closure System Advance Notification

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction $\geq 16'$)	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.

stp-108-057 (20161130)

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 12, STH 25, USH 53, STH 93, STH 124, or STH 312 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, September 1, 2017 to 6:00 AM Tuesday, September 5, 2017 for Labor Day;
- From noon Wednesday, November 22, 2017 to 6:00 AM Monday, November 27, 2017 for Thanksgiving Day;
- From noon Friday, December 22, 2017 to 6:00 AM Tuesday, December 26, 2017 for Christmas Day;
- From noon Friday, December 29, 2017 to 6:00 AM Tuesday, January 2, 2018 for New Year's Day;
- From noon Friday, May 25, 2018 to 6:00 AM Tuesday, May 29, 2018 for Memorial Day;
- From noon Tuesday, July 3, 2018 to 6:00 AM Thursday, July 5, 2018 for Independence Day.

6. Utilities.

This contract comes under the provision of Administrative Rule Trans 220. 107-065 (20080501)

Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities with underground facilities in the area, as required per state statutes. Use caution to maintain the integrity of utilities and maintain code clearances from overhead facilities at all times. Coordinate with the engineer to adjust plans as needed to avoid any unanticipated utility conflicts.

Project 1000-08-81

AT&T Legacy has fiber optic facilities on eastbound IH 94 right-of-way crossing USH 53; eastbound IH 94 right-of-way crossing STH 93; and eastbound IH 94 right-of-way crossing STH 25. No conflicts are anticipated.

AT&T Plant Protection Personnel must be on site when working near the fiber optic. Contact Brad Kempf at (715) 254-5238 a minimum of three working days prior to excavating within 10 feet of the fiber optic to coordinate a site watch.

Windstream KDL, Inc. has fiber optic facilities at the intersection of USH 12 and STH 37. A conflict exists with proposed signal base in the southeast intersection quadrant (SB14). At the intersection of USH 12 and Stein Boulevard, Windstream has fiber optic facilities that conflict with the signal base wings for the signal base located in the northwest intersection quadrant (SB8). Use caution when working near these facilities. Windstream has additional facilities along the south side of USH 12 with an underground crossing at Stein Boulevard into the hospital on the west side of Stein Boulevard.

Relocation work required by Windstream is anticipated to take two working days. Contact Windstream to review signal pole locations once they have been staked and prior to excavation. The field contact is Dennis Ruess 608-512-5587.

The following utility companies have facilities within the project area; however, no adjustments are anticipated:

- **AT&T Wisconsin** (Communication Line)
- CenturyLink Communications (Communication Line)
- Charter Communications (Communication Line)
- **CINC** (Communication Line)
- City of Eau Claire (Sanitary Sewer)
- City of Eau Claire (Water)
- **City of Menomonie** (Sanitary Sewer)
- City of Menomonie (Water)
- Eau Claire Energy Cooperative (Electric Distribution)
- Magellan Pipeline (Petroleum)
- **Packerland Broadband** (Communication Line)
- **Sprint** (Communication Line)
- Viking Gas Transmission (Gas)
- Village of Lake Hallie (Sanitary Sewer)
- Village of Lake Hallie (Water)
- West Wisconsin Telcom Co-op (Communication Line)
- **Windstream KDL, Inc.** (Communication Line)
- **Xcel Energy** (Electric Transmission)
- **Xcel Energy** (Electric Distribution)
- Xcel Energy (Gas)

Project 3700-50-26

AT&T Legacy has fiber optic facilities on eastbound IH 94 right-of-way crossing USH 53; eastbound IH 94 right-of-way crossing STH 93; and eastbound IH 94 right-of-way crossing STH 25. No conflicts are anticipated.

AT&T Plant Protection Personnel must be on site when working near the fiber optic. Contact Brad Kempf at (715) 254-5238 a minimum of three working days prior to excavating within 10 feet of the fiber optic to coordinate a site watch.

The following utility companies have facilities within the project area; however, no adjustments are anticipated:

- **AT&T Wisconsin** (Communication Line)
- Charter Communications (Communication Line)
- **CINC** (Communication Line)
- City of Eau Claire (Sanitary Sewer)
- City of Eau Claire (Water)
- **Xcel Energy** (Electric Distribution)
- Xcel Energy (Gas)

Project 3700-50-27

AT&T Legacy has fiber optic facilities on eastbound IH 94 right-of-way crossing USH 53; eastbound IH 94 right-of-way crossing STH 93; and eastbound IH 94 right-of-way crossing STH 25. No conflicts are anticipated.

AT&T Plant Protection Personnel must be on site when working near the fiber optic. Contact Brad Kempf at (715) 254-5238 a minimum of three working days prior to excavating within 10 feet of the fiber optic to coordinate a site watch.

The following utility companies have facilities within the project area; however, no adjustments are anticipated:

- **AT&T Wisconsin** (Communication Line)
- Charter Communications (Communication Line)
- **CINC** (Communication Line)
- City of Eau Claire (Sanitary Sewer)
- City of Eau Claire (Water)
- **Xcel Energy** (Electric Distribution)
- Xcel Energy (Gas)

7. Other Contracts.

WisDOT Project 1190-02-81 includes resurfacing of USH 53 and Golf Road interchange and will be completed in the fall of 2017.

8. Railroad Insurance and Coordination.

A Description

Comply with standard spec 107.17 for all work affecting Union Pacific Railroad Company property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Union Pacific Railroad Company.

Notify evidence of the required coverage, and duration to John Venice, Manager Special Projects – Industry & Public Projects Engineering Department, 101 North Wacker Drive – Suite 1920, Chicago, IL 60606, telephone (312) 777-2043, fax (402) 233-2769, email jnvenice@up.com. Include the following information on the insurance document:

Project Id 1000-08-81
Route Name STH 124/40th Avenue
Crossing ID 185 937S
Railroad Subdivision Chippewa Falls Sub
Railroad Milepost 7.64

A.2 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions and will be accomplished without cost to the contractor. None

A.3 Names and addresses of Railroad Representatives for Consultation and Coordination

Contact John Venice, Manager Special Projects – Industry & Public Projects Engineering Department, 101 North Wacker Drive – Suite 1920, Chicago, IL 60606, telephone (312) 777-2043, fax (402) 233-2769, email jnvenice@up.com, for consultation on railroad requirements during construction.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

A.4 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 several weeks prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

A.5 Train Operation

Approximately one (1) through freight train operates daily through the construction site. Through freight trains operate at up to 10 mph. There are no switching movements at this crossing.

Railroad Fiber Optic Lines

Union Pacific Railroad Company Fiber Optic Lines

Call “Diggers Hotline” and additionally contact the Union Pacific Railroad Company “call before you dig” office at (800) 336-9193. Normal business hours are 7:00 AM to 9:00 PM, Central Time, Monday through Friday, except holidays. Reference Wisconsin, Mile Post 7.64 on the Chippewa Falls Subdivision to verify the location of fiber optic lines located on railroad right-of-way at the construction site. Calls will be routed at all times in case of an emergency.

9. Timely Decision Making Manual.

Use the Timely Decision Making Manual (TDM) on this contract. Coordinate with the department to modify the various published tools as necessary to meet the particular project needs and determine how to implement those tools under the contract. Ensure the full participation of the contractor and its principal subcontractors throughout the term of the contract.

Forms and associated guidance are published in the TDM available at the department’s Highway Construction Contract Information (HCCI) web site at:

Timely Decision Making Manual (TDM)

105-005 (20151210)

10. Fence Safety, Item 616.0700.S.

A Description

This special provision describes furnishing and installing a plastic fence at locations shown on the plans and as hereinafter provided.

B Materials

Furnish notched conventional metal “T” or “U” shaped fence posts.

Furnish fence fabric meeting the following requirements.

Color:	International orange (UV stabilized)
Roll Height:	4 feet
Mesh Opening:	1-inch min to 3-inch max
Resin/Construction:	High density polyethylene mesh
Tensile Yield:	Avg. 2000 lb per 4 feet width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3000 lb per 4 feet width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

C Construction

Drive posts into the ground 12 to 18-inches. Space posts at 7 feet.

Use a minimum of three wire ties to secure the fence at each post. Weave tension wire through the top row of strands to provide a top stringer that prevents sagging.

Overlap two rolls at a post and secure with wire ties.

D Measurement

The department will measure Fence Safety by the linear foot along the base of the fence, center-to-center of posts, 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
616.0700.S	Fence Safety	LF

Payment is full compensation for furnishing and installing fence and posts; maintaining the fence and posts in satisfactory condition; and for removing and disposing of fence and posts at project completion.

616-030 (20160607)

11. General Requirements for Electrical Work.

Append standard spec 651.3.3 (3) with the following:

Electrical item inspections are required at the following times: after the staking of all electrical underground items, before the pouring of all lighting, signal, and cabinet bases; before cable and wire are pulled; during field terminations at signal and lighting bases; and prior to the installation of any poles, standards, or other above ground electrical items.

Request electrical inspections of the completed signal and lighting work to the engineer at least five working days prior to the time of the required inspection. Notify the Northwest Region – Eau Claire Office Electrical Unit at (715) 839-3787 to coordinate the inspection. The department's region electrical personnel will perform the inspection.

12. Install Conduit Into Existing Item, Item 652.0700.S.

A Description

This special provision describes installing proposed conduit into an existing manhole, pull box, junction box, communication vault, or other structure.

B Materials

Use 2-inch and 3-inch nonmetallic conduit as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole for the entering conduit(s) at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement

The department will measure Install Conduit Into Existing Item by the unit, acceptably installed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five, or conduits entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
652.0700.S	Install Conduit Into Existing Item	Each

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and

backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.
652-070 (20100709)

13. Traffic Signals & Street Lighting, General.

Notify the department's Electrical Field Unit at (715) 839-3787 at least three weeks prior to the beginning of the traffic signal work.

Department Furnished Equipment

The northwest region electrical unit will furnish all equipment and cable for emergency vehicle preemption systems, all equipment for monotube structures, traffic signal and pedestrian faces, and signal mounting hardware. The contractor shall install the department furnished items. The northwest region electrical unit will complete all connections inside the signal cabinet. The contractor shall provide all stainless steel banding materials and incidental items necessary for installation.

Schedule delivery of the monotube poles and arms at least 6 weeks in advance of planned installation date. Arrange to have monotube poles and arms delivered directly to the site. The contractor shall be responsible for the unloading of monotube materials from the delivery truck. Install monotube poles within seven calendar days of delivery to site. Install monotube arms on monotube poles within 24 hours of pole installation.

Notify the Northwest Region – Eau Claire Office Electrical Unit at (715) 839-3787, and make arrangements for picking up the remaining northwest region furnished materials three working days prior to picking the materials up. Transport Northwest Region furnished materials from the Northwest Region – Eau Claire Office Electrical Shop, Highway 53 South, Eau Claire, WI, to the project location.

Equipment Installation

Traffic signal heads on existing traffic signal poles to be removed shall remain operational until all traffic signal heads on newly installed traffic signal poles are operational. Traffic signal heads on newly installed traffic signal poles shall be bagged until all traffic signal heads on that pole are operational.

14. Traffic Signal Face - LED State Furnished, Item 658.0190.S.

A Description

This work shall consist of assembling and installing department-furnished traffic signal faces, backplates, and LED modules according to standard spec 658 and as hereinafter provided.

B Materials

Pick-up the traffic signal faces, backplates, reflective backplates, and LED modules at the region electrical department. Contact the region's electrical department three working days prior to picking up the materials.

C Construction

Install the LED modules per manufacturer's instructions into the traffic signal faces.

Mount the backplates or reflective backplates onto the traffic signal faces.

Field-install the assembled traffic signal faces per contract requirements.

Once the installation is complete, record the signal number, model number, serial number, date of installation, and location of the module at the intersection (NB near right, etc.), and give a copy of this information to the region's electrical department for warranty information.

D Measurement

The department will measure Traffic Signal Face - LED State Furnished, completed according to the contract and accepted, as units.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
658.0190.S	Traffic Signal Face - LED State Furnished	Each

Payment is full compensation for picking up the materials at the region electrical department; and for assembling and installing the complete traffic signal face in place.
658-008 (20080902)

15. Pedestrian Signal Face - LED State Furnished, Item 658.0420.S.**A Description**

This special provision describes assembling and installing state-furnished pedestrian faces and LED modules according to standard spec 658 and as hereinafter provided.

B Materials

Pick-up the pedestrian signal faces and LED modules at the region electrical department. Contact the region electrical department three working days prior to pick-up.

C Construction

Install the LED modules per manufacturer's instructions into the pedestrian signal faces.

Field-install the assembled pedestrian faces per contract requirements.

Once the installation is complete, record the signal number, model number, serial number, date of installation, and location of the module at the intersection (NE quadrant etc.), and give a copy of this information to the region's electrical department for warranty information.

D Measurement

The department will measure Pedestrian Signal Face - LED State Furnished, completed according to the contract and accepted, as units.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
658.0420.S	Pedestrian Signal Face - LED State Furnished	Each

Payment is full compensation for picking up the materials at the region electrical department; and for assembling and installing the complete traffic signal face in place.

658-009 (20080902)

16. Intelligent Transportation Systems – General Requirements.

Supplement standard spec 670 as follows:

A Description

A.1 General

This contract includes furnishing and installing elements for an Intelligent Transportation System (ITS) in or along the existing roadway as shown on the plans.

Unusual aspects of this project include:

- The project includes working on cables and equipment that are carrying data between roadside equipment and the department's Statewide Traffic Operations Center (STOC). Interruption of this service is not expected to be necessary to perform this work. If an interruption is determined necessary, it must be done on a weekend, and must be done in a way that minimizes communications outages for the existing equipment. Notify the department's STOC at least 48 hours in advance of the planned interruption.
- The department will furnish some of the equipment to be installed. Make a reasonable effort to discover defects in that equipment prior to installing it.
- Project includes installation of fiber optic cable into the Eau Claire State Patrol post. Notify Captain Nick Wanink at (715) 839-3800 one week in advance of installation to gain access to the State Patrol post.

A.2 Surge Protection

Equip every ungrounded conductor wire entering or leaving any equipment cabinet with a surge protector. For purposes of this section, multiple cabinets on a single pole or foundation are considered a single cabinet.

B Materials

B.1 General

Furnish equipment and component parts for this work that are new and have high quality workmanship. All controls, indicators, and connectors shall be clearly and permanently labeled in a manner approved by the engineer. All equipment of each type shall be identical.

All electrical equipment shall conform to the standards and requirements of the Wisconsin Electrical Code, the National Electrical Manufacturers Association (NEMA), National Electric Safety Council (NESC), Underwriter's Laboratory Inc. (UL) or the Electronic Industries Association (EIA), when applicable. All materials and workmanship shall conform to the requirements of the National Electrical Code (NEC), Rural Electrification Administration (REA), Standards of the American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO), requirements of the plans and these special provisions, the standard specifications, and to any other codes, standards, or ordinances that may apply. All system wiring, conduit, grounding hardware and circuit breakers shall be in conformance with the National Electrical Code. Whenever reference is made to any of the standards mentioned, the reference shall be considered to mean the code, ordinance, or standard that is in effect at the time of the bid advertisement.

B.2 Outdoor Equipment

All conductive connectors, pins (except pins connected by soldering), and socket contacts shall be gold plated. Acrylic conformal coating shall protect each circuit board side that has conductive traces. Except for integrated circuits containing custom firmware, all components shall be soldered to the printed circuit board.

To prevent galvanic corrosion, all connections between dissimilar metals shall incorporate a means of keeping moisture out of the connection. Where the connection need not conduct electricity, interpose a non-absorbing, inert material or washer between the dissimilar metals. Use nonconductive liners and washers to insulate fasteners from dissimilar metals. Where the connection shall conduct electricity, use a conductive sealant between the dissimilar metals. Alternatively, use an insulating gasket and a bond wire connecting the two metal parts.

B.3 Custom Equipment

Equipment that is not part of the manufacturer's standard product line, or that is made or modified specifically for this project, shall conform to the following requirements: Where practical, electronics shall be modular plug-in assemblies to facilitate maintenance. Such assemblies shall be keyed to prevent incorrect insertion of modules into sockets.

All components shall be available from multiple manufacturers as part of the manufacturers' standard product lines. All shall be clearly labeled with the value, part number, tolerance, or other information sufficient to enable a technician to order an exact replacement part.

Lamps used for indicator purposes shall be light-emitting diodes.

The printed circuit boards shall be composed of "two-ounce" copper on 1/16-inch thick fiberglass epoxy or equivalent type construction. Holes that carry electrical connections from one side of the boards to the other shall be completely plated through. Multilayer printed circuit boards shall not be used. The name or reference number used for the board in the drawings and maintenance manuals supplied to the department shall be permanently affixed to each board.

All components shall be mounted so the identifying markings are visible without moving or removing any part, if practical.

B.4 Environmental Conditions

Equipment shall continue to operate as specified under the following ranges of environmental conditions, except as noted in the specifications for individual pieces of equipment.

1. **Vibration and Shock:** Vehicle speed and classification sensors and any other equipment mounted atop poles or on structures shall not be impaired by the continuous vibration caused by winds (up to 90 mph with a 30 percent gust factor) and traffic.
2. **Duty Cycle:** Continuous
3. **Electromagnetic Radiation:** The equipment shall not be impaired by ambient electrical or magnetic fields, such as those caused by power lines, transformers, and motors. The equipment shall not radiate signals that adversely affect other equipment.
4. **Electrical Power:**
 - a. **Operating power:** The equipment shall operate on 120-volts, 60-Hz, single-phase unless otherwise specified. It shall conform to its specified performance requirements when the input voltage varies from 89 to 135 volts and the frequency varies ± 3 Hz.
 - b. **High frequency interference:** The equipment operation shall be unaffected by power supply voltage spikes of up to 150 volts in amplitude and 10 microseconds duration.
 - c. **Line voltage transients:** The equipment operation shall be unaffected by voltage transients of plus or minus 20 percent of nominal line voltage for a maximum duration of 50 milliseconds. Equipment in the field shall meet the

power service transient requirements of NEMA Standard TS-2 when connected to the surge protectors in the cabinets.

5. Temperature and Humidity:

- a. **Field equipment:** Equipment in the field shall meet the temperature and humidity requirements of NEMA Standard TS-2. Liquid crystal displays shall be undamaged by temperatures as high as 165 degrees F, and shall produce a usable display at temperatures up to 120 degrees F.
- b. **Equipment in Controlled Environments** shall operate normally at any combination of temperatures between 50 degrees F and 100 degrees F, and humidity between 5 percent and 90 percent, non-condensing, and with a temperature gradient of 9 degrees F per hour.

B.5 Cables and Wiring

All cables and wiring between devices installed in a single cabinet, in separate cabinets sharing a single concrete base, and in a pole-mounted cabinet and equipment sharing the same pole will be considered incidental to the installation of the devices and no separate payment will be made for them. It is anticipated that this will include fiber optic patch cables, between termination panels and Ethernet switches, 10/100 MBPS Ethernet cables, RS-232 cables between individual devices and terminal servers, and power cables between individual devices and power sources within the cabinets.

B.6 Surge Protection

Low-voltage signal pairs, including twisted pair communication cable(s) entering each cabinet shall be protected by two-stage, plug-in surge protectors and shall be installed on both ends of camera control cables. The protectors shall meet or exceed the following minimum requirements:

- The protectors shall suppress a peak surge current of up to 10k amps.
- The protectors shall have a response time less than one nanosecond.
- The protector shall clamp the voltage between the two wires at a voltage that is no more than twice the peak signal voltage, and clamp the voltage between each wire and ground at 50 volts.
- The first stage of protection shall be a three-element gas discharge tube, and the second stage shall consist of silicon clamping devices.
- The protector shall also contain a resettable fuse (PTC) to protect against excessive current.
- There shall be no more than two pairs per protector.
- It shall be possible to replace the protector without using tools.

Cables carrying power to curve signs shall be protected at the cabinet by grounded metal oxide varistors of appropriate voltages. The varistors shall be at least 0.8-inch in diameter.

C Construction

C.1 Thread Protection

Provide rust, corrosion, and anti-seize protection at all thread assemblies of metallic parts by coating (non-spray) the mating surfaces with an approved compound. Failure to use an approved compound will result in no payment for the items to which coating was to have been applied.

C.2 Cable Installation

When installing new cables into conduits containing existing cables, remove the existing cables and reinstall the existing cables simultaneously with the new cables. Take every precaution necessary to protect the existing cables. In the event of avoidable damage to the existing cables, replace all damaged cables, in-kind, at no additional expense to the department. When cables are pulled into conduit, use a cable pulling lubricant approved by the cable manufacturer. Submit documentation supporting manufacturer approval of the lubricant to the engineer.

C.3 Wiring

Every conductor, except a conductor contained entirely within a single piece of equipment, must terminate either in a connector or on a terminal block. Provide and install the connectors and terminal blocks where needed, without separate payment. Use approved splice kits instead of connectors and terminal blocks for underground power cable splices.

Permanently label and key connectors to preclude improper connection. Obtain prior engineer approval for the labeling method(s) prior to use.

Terminal blocks shall be affixed to panels that permanently identify the block and what wire connects to each terminal. This may be accomplished by silk screening or by installing a laminated printed card under the terminal block, with the labels on portions of the card that extend beyond the block. Installation of terminal blocks by drilling holes in the exterior wall of the cabinet is not acceptable.

Use barriers to protect personnel from accidental contact with all dangerous voltages.

Do not install conductors carrying AC power in the same wiring harness as conductors carrying control or communication signals.

Arrange wiring, including fiber optic pigtails, so that any removable assembly can be removed without disturbing wiring that is not associated with the assembly being removed.

Communication and control cables may not be spliced underground, except where indicated on the plans.

Cables in the Statewide Traffic Operations Center or in communications hubs which are not contained within a single cabinet shall have at least 10 feet of slack.

C.4 System Operations

If the contractor's operations unexpectedly interrupt Intelligent Transportation Systems (ITS) service, notify the engineer immediately and restore service within 24 hours. Repair all damaged facilities to the condition existing before the interruption. If service is not restored within 24 hours, the department may restore service to any operating device and deduct restoration costs from payments due the contractor.

C.5 Surge Protection

Arrange the equipment and cabinet wiring to minimize the distance between each conductor's point of entry and its surge protector. Locate the protector as far as possible from electronic equipment. Ensure all wiring between the surge protectors and the point of entry is free from sharp bends.

C.6. Dynamic Message Sign Power Source

The electrical service will be drawn from the existing lighting cabinet as shown on the plans. Contact the Region's Electrical Unit at least two (2) weeks prior to the installation of the dynamic message sign to coordinate the necessary adjustments required in the existing lighting cabinet.

C.7. Fiber Optic Cable to Existing Signal Cabinets and Existing CCTV Pole-Mounted Cabinets

Fiber optic cable shall be connected into three existing signal cabinets and two CCTV pole-mounted cabinets. The fiber optic cable shall be installed in existing conduit as shown on the plans. Contact the Region's Electrical Unit at least four days prior to the installation of the fiber optic cable to gain access to the existing cabinets.

C.8. State Patrol Building Access

Fiber optic cable will be installed in the Eau Claire State Patrol. Contact The Region's Electrical Unit at least four days prior to the installation of the fiber optic cable to gain access to the State Patrol building.

D Measurement

No separate measurement will be made for the work described in this article.

E Payment

No separate payment will be made for the work described in this article. All work described in this article is included under the ITS items in the contract.

17. Intelligent Transportation Systems (ITS) – Control of Materials.

Standard spec 106.2 – Supply Source and Quality

Add the following to standard spec 106.2:

The department will furnish a portion of equipment to be installed by the contractor. This department-furnished equipment includes the following:

Department-Furnished Items
(2) Pole, 50', Freeway, with Lowering System
(2) Camera, Traffic, Dome-Style, Outdoor
(3) Cabinet, Pole-Mounted
(1) Sign, Dynamic Message, Freeway, 96 x 336, Full Color Walk-In
Armored Fiber Optic Cable Outdoor Plant 6-ct
Armored Fiber Optic Cable Outdoor Plant 36-ct
Armored Fiber Optic Cable Outdoor Plant 72-ct

Contact Dean Beekman, STOC, at (414) 227-2154 to obtain a copy of the manufacturer list and contact names for department-furnished equipment.

Pick-up small department-furnished equipment, such as communications devices and controller, from the department's Statewide Traffic Operations Center (STOC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact the department's STOC at (414) 227-2166 to coordinate pick-up of equipment.

Large department-furnished equipment will be delivered by the supplier to a contractor-controlled site within Eau Claire. Delivery will not necessarily be in a "just in time" manner. Unload and store the equipment until field installation. Provide location details and a contact for delivery coordination upon receiving the contract's Notice to Proceed.

Transportation of the equipment between the contractor-controlled site and the field or interim location(s) is the responsibility of the contractor.

Standard spec 106.3 – Approval of Materials

Add the following to standard spec 106.3:

Design/Shop Drawings

Prior to the purchase and/or fabrication of any of the components listed herein, and for any non-catalog item shown on the material and equipment list specified above, and no more than 30 days after notice to proceed, submit five copies of design drawings and shop drawings, as required, to the department for review. The items and the drawings that represent them shall meet the requirements of the standard specifications.

Design drawing submissions shall consist of signed and certified designs, design drawings, calculations, and material specifications for required items.

Shop drawings will be required for, but not limited to the following:

- Mounting assemblies for the vehicle speed and classification sensors, including their attachment to the structure.
- Any contractor-designed structure or foundation.

The department will complete its review of the material within 30 days from the date of receipt of the submission, unless otherwise specified. The department will advise the contractor, in writing, as to the acceptability of the material submitted. The department may determine that if no exceptions were taken for the item, it is approved, and no further action is required by the contractor; or the item may be partially or totally rejected, in which case modify and/or amend the submittal as required by the department and resubmit the item within 14 days. At this time, the review and approval cycle described above will begin again. 670-005 (20100709)

18. Intelligent Transportation Systems – Conduit.

Add the following to standard spec 671.2:

671.2.4 Locate Wire

Furnish and install a No. 14 AWG stranded copper wire for future locate purposes through each conduit run that does not contain armored fiber optic cable. Connect the locate wire by using a wire nut at each pull box, manhole, or other access point. Alternatively, use a single wire through the access points. All material furnished under this item shall meet the requirements of standard spec 655.

19. Ramp Closure Gates Solar 30-FT, Item 662.2030.S.

A Description

This special provision describes providing solar-powered freeway on-ramp closure gates on type 5 steel luminaire poles. This special provision also describes furnishing and delivering spare gate arms and flashers.

B Materials

B.1 General

Provide five user manuals and a listing of vendors and contact information for each manufactured component including flasher electrical components.

The engineer may allow alternates equal to specified manufactured components. The engineer may require plan detail modifications to accommodate alternates. The engineer may accept alternate arms or mounting adaptors only if the contractor can demonstrate that the department can easily remove and replace the arms.

B.2 Components

Furnish type 5 steel poles designed to carry twin 15-foot luminaire arms and conforming to standard spec 657 and with dimensions for acceptable installation of the ramp gate hardware as shown on the detail. Ensure a contiguous pole by eliminating the hand hole near base of pole, thus allowing uninhibited mounting of the gate pivot assembly.

Furnish galvanized steel nuts and bolts conforming to ASTM A307 except where designated as high strength (HS), conform to ASTM A325. For the ramp closure gate locking mechanism, furnish a handle nut to fit on a 3/4-inch bolt.

Furnish grade A36 steel for the gate supports, gate pivot assembly, and associated hardware galvanized after fabrication by either a mechanical or hot-dip process. Grind welded connections, rough edges, and burrs smooth before galvanizing to ensure a finished appearance. Ensure that the galvanized coating conforms to ASTM A153.

Provide aluminum/fiberglass gate arms of the nominal length the bid item indicates and conforming to plan dimensions. Cover gate arms on two sides with alternating red and white shop-applied type H reflective from the department's approved products list. Also provide a shear pin base that is the manufacturer's "permanent pivot" style. Obtain components from:

B&B Roadway
15191 Hwy 243
Russellville, AL 35654
Tel: (888) 560-2060

Gate arm: model MU605

Furnish a worm gear winch with a single line vertical lift capacity of 2000 lbs. Ensure that the winch has hardened steel gears, a handgrip, permanently lubricated bearings, a reinforced arc-welded reel assembly, and mounting plate. Ensure that the winch can be mounted to the winch mount plate shown on the construction details and the handgrip can be operated without conflict with the pole or ramp gate assembly. Furnish a 2-inch outdoor rated, rot resistant polyester strap for the connection between the worm gear winch and the gate arm pivot assembly.

Furnish solar power system and batteries conforming to the following:

1. Cabinet

The cabinet shall be manufactured of 0.125-inch sheet aluminum. Nominal cabinet dimensions shall be 26.25-inches high by 15.5-inches wide by 14.75-inches deep. The cabinet shall be a two-compartment type; the bottom compartment shall have a neoprene gasket seal so as to prevent battery gases from seeping into the top compartment. The cabinet shall have wire screened insect proof louvers on each side of both compartments for ventilation. The louvers shall be designed to not allow any rain to enter the cabinet. On the bottom of the cabinet there shall be two screened insect proof drain holes.

The door shall be a single unit with a continuous piano hinge riveted to the door and the cabinet. The door shall incorporate a neoprene gasket which, when closed, forms a snug weather tight seal. The door lock shall be a standard police

lock reinforced with a steel plat which is keyed the same as the standard traffic control cabinets.

Each cabinet shall be equipped with the necessary rigid back wall for mounting to a traffic signal standard. The cabinet shall have a 1-inch diameter cable entry hole at each mounting location on the back.

2. Control Panel

The control panel containing the electronics shall be mounted in the top compartment of the cabinet using bolts with wing nuts. The solar panel and the battery shall be connected directly to the solar charge controller terminals. All modular components shall be easily removed for replacement or maintenance.

The solar panels, load, and battery shall be fused.

Furnish the cabinet with a 10 position terminal block for the 12 VDC power distribution. Furnish power wire terminal strips 10 position feed-through terminal blocks UL recognized for No. 22 AWG wire through No. 16 AWG wire and UL rated for 15 amps. The terminal shall be tin-plated brass with brass clips and clamps.

3. Solar Charge Controller

The solar charge controller shall control battery charging through pulse width, modulated, temperature compensating, constant charging algorithm. The solar charge controller shall have both a low voltage disconnect (LVD) of 11.4 VDC and a high voltage disconnect (HVD) of 15.5 VDC. A liquid crystal display (LCD) of battery voltage, solar array current, and load current shall be available with the solar charge controller. In addition, colored LEDs shall display battery state. A green LED shall indicate full charge, amber LED shall indicate half charge, and flashing red LED shall indicate low charge. A solid glowing red LED shall indicate the load has been disconnected. A separate green LED shall indicate the battery is being charged.

The solar charge controller shall have a load disconnect pushbutton. When the load is disconnected the button shall glow red.

The solar charge controller shall be capable of operating in a temperature range of 40° C and +85° degrees C.

Wire terminations to the solar charge controller shall be accomplished using Euro style terminations.

4. Solar Panel

The solar panel shall be a 50-watt high efficiency, single crystal silicon solar cells that are laminated to glass with layers of ethylene vinyl acetate (EVA). The panel shall be self-cleaning, impact resistant, highly transmissive, tempered glass

superstate. The panel module frame shall be made of extruded, polymer coated aluminum ally or similar approved construction. The panel module junction box shall be a UV resistant, weatherproof wire termination system that handles #14 AWG to #8 AWG wiring. The minimum wattage for the system shall be determined by the supplier, with design calculations submitted with the bid.

5. Solar Panel Mount

The solar panel mounting system shall consist entirely of non-corrosive materials, including aluminum brackets and zinc-plated hardware. The solar panel shall be mounted at angle of 60 degrees from horizontal, shall mount to a pole with a nominal diameter of 4-inches, and shall be designed for a minimum of 30 pound per square foot.

6. Battery

The battery shall be a 99-amp-hour type 31 AGM maintenance-free, deep cycle, 12 volt DC battery. It shall contain valve regulation with a self-discharge rate of 1% per month or less (at 20° C). The battery shall utilize T881 terminals. The positive terminal shall be covered with a rubber boot to protect the battery from accidental shorting. Place dielectric grease on battery terminals.

Furnish gate flasher assemblies conforming to the following:

1. A 2-conductor battery connector, rated 12 volts at 5 amps minimum.
2. A 2-amp weather resistant in-line fuse and fuse holder.
3. Wiring harness made from 6-conductor 14 AWG stranded insulated control cable.
4. A 12 V flasher controller, capable of providing LED flashers with 5% to 100% duty cycle at a one-second pulse repetition rate.
5. A 4-conductor male/female electrical connector pair, 10 amp capacity for each connection, weather resistant, and mounted to allow rapid gate arm replacement.
6. A 5-amp mercury switch with less than 3 ohms “on” resistance and a 20 to 30 degree activation angle. Mount the switch on the gate arm to activate the flashers when the gate arm is lowered more than 45 degrees from the vertical.
7. Furnish red LED flashers meeting the requirements of the MUTCD and/or AREMA standards for hue and brightness.

Power consumption	0.45 amp @ 10.5 V
Life expectancy	100,000 hrs
Directionality	0-degree cone orthogonal to face of flasher
Compliance temperature	-40° C to +70° C

Furnish electrical wires with jackets conforming to the following color scheme throughout the ramp closure gate system:

- From Solar Panel to Controller Cabinet
 - Positive = Blue
 - Negative = White
- From Controller Cabinet to Gate Arm Flashers
 - Common = White
 - Flasher Circuit #1 = Red
 - Flasher Circuit #2 = Blue

Furnish a weatherproof hardened steel padlock with a minimum 2 ¼-inch shackle height and user programmable 4-digit combination.

C Construction

C.1 Ramp Closure Gates

Under the Ramp Closure Gates bid items, provide ramp closure gate at the locations the plans show. Apply marine grade anti seize compound to all bolt threads and to the interface between the aluminum base and steel pole. The engineer may direct adjustment of the gate arm assembly to ensure the correct vertical and angular orientation of the completed closure gate.

Install the solar power system and battery as the plans show. The engineer may direct adjustment of the solar power unit to ensure the correct orientation to the sun.

Connect the battery to the wiring harness through the female side of a 2-terminal polarized electrical connector. Connect male side of this connector to the flasher controller and the female side of the weatherproof polarized 4-conductor electrical connector.

Attach the male side of the 4 conductor electrical connector, mercury switch, wiring harness, and the three LED flasher units to the portion of the flasher assembly mounted on the breakaway portion of the gate arm. Adjust mercury switch so that as the gate arm is lowered to a maximum of 45 degrees from the vertical, the gate flasher assembly is energized, and the LEDs begin to flash. Ensure that when the gate arm is raised to a minimum of 15 degrees from the vertical, the mercury switches the gate flasher assembly off.

Install structure identification plaques in the location the plan details show.

*Northwest Region Electrical Field Unit
(715) 839-3787*

D Measurement

The department will measure the Ramp Closure Gates Solar bid items as each individual installation, 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
662.2030.S	Ramp Closure Gates Solar 30-FT	Each

Payment for the Ramp Closure Gate solar bid item is full compensation for providing ramp closure gates including support poles; for gate arm assemblies including guides, collars, and gate arms; for cabinets, wiring, and power converters; for structure identification plaques; for gate flashers; and for padlock.

662-010 (20140630)

20. Install Pole Mounted Cabinet, Item 673.0225.S.

A Description

This special provision describes installing department furnished aluminum enclosures on poles for intelligent transportation systems.

B Materials

Use stainless steel bolts, nuts, and washers unless otherwise specified.

All conductors, terminals, and parts that could be hazardous to maintenance personnel shall be protected with suitable insulating material.

The cabinet will be equipped with service panels. Two panels shall be provided and mounted on the cabinet sidewalls. The left side panel shall be designated as "Input/Communications", and the right panel shall be designated as the "Service Panel".

The service panel will be equipped with a four-outlet handi-box. Wire the handi-box to the series portion of the filtering surge protector.

Use metallic conduit, fittings, and adapters required from the underground conduit transition point to the cabinet as part of this item. A typical installation requires on 2-inch conduit. Use metallic conduit according to standard spec 652.

C Construction

Fasten the field cabinet securely onto a pole. Provide bolted stainless steel connections with lock washers, locking nuts, or other engineer-approved means to prevent the connection nuts from backing off. Isolate dissimilar materials from one another using stainless steel fittings. Make all power connections to the cabinet as specified in the standard spec 656.

Drill and tap the cabinet, as necessary, to mount the terminal blocks and other attachments to the service panel, to provide an entrance on the back of the cabinet for cable from the pole mounted intelligent transportation systems equipment, and to mount the service panel to the cabinet as shown in the details. Remove all sharp edges or burrs, or both, caused by

the cutting or drilling process. Seal all openings to prevent water from entering the cabinet. Mount the surge protector to the service panel.

Install metallic conduit on the exterior of the pole (for entrance to the cabinet from the ground) as shown in the plans, according to the applicable requirements of standard spec 652.

D Measurement

The department will measure Install Pole Mounted Cabinet as each individual assembly 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
673.0225.S	Install Pole Mounted Cabinet	Each

Payment is full compensation for installing the pole mounted cabinet; for making all the connections and conduit/wire entrances; and for all testing.

673-010 (20100630)

21. Install Overhead Freeway DMS Full Matrix, Item 678.0100.S.

A Description

This special provision describes installing a department-furnished, or an existing salvaged, dynamic message sign on a new sign structure.

B Materials

The department will provide the sign, or it will be salvaged, controller, and the control cable. The control cable will be multi-mode fiber optic cable.

Use AWG #6 copper wire or equivalent bonding straps to bond the sign and cabinet to the structure. Use an AWG #6 solid, bare copper wire to bond the sign structure to the ground rod(s).

1. For the three wires carrying 120/240 VAC power from the cabinet to the sign, use single conductor, stranded copper, 120/240 VAC, XLP insulated, USE rated wire. Size the wire to carry the maximum amperage permitted by the main breakers.

Provide a 100-amp 120/240-VAC load center in the controller cabinet, along with breakers recommended by the sign manufacturer.

C Construction

Install the load center so that the main breakers control all power to the sign and cabinet. Provide at least three branch circuits, one for the sign, one for the controller and the

communication equipment, and one for all cabinet accessories, such as fan, light, and heater. Only protect the branch serving the controller and communication equipment with the second stage of the surge protector. Connect the power and control cables according to the manufacturer's recommendations. Run the cables in rigid metallic conduit or flexible metallic conduit, or combination of these, within the sign structure.

Bond the bottom of the sign structure to one or more ground rods. Use exothermic welding at each end of the ground wire, unless the steel structure has a suitable grounding lug. Use a device that measures resistance to ground using the three-point fall-of-potential method to ensure that the resistance from the sign's ground bar to ground does not exceed 4 ohms. Add more ground rods if necessary to achieve this requirement.

D Measurement

The department will measure Install Overhead Freeway DMS Full Matrix as each individual assembly 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
678.0100.S	Install Overhead Freeway DMS Full Matrix	Each

Payment is full compensation for installing and testing the sign and controller, providing cables, conduits, and fittings; for testing the sign; and for transporting materials.
678-010 (20100630)

22. Fiber Tracer Marker Post, Item SPV.0060.01.

A Description

This special provision describes providing and installing a fiber tracer marker post according to standard spec 671, as shown on the plans, and as hereinafter provided.

B Materials

Furnish fiber tracer marker post constructed from high-impact polycarbonate, with stainless steel hardware, five standard terminals, terminal enclosure for cathodic protection, an anchor bar, white and orange in color, fade resistant, ultraviolet stable, a minimum of 62-inches long, 3.5-inch outside diameter, vandalism resistant, and labeled with WARNING FIBER OPTIC CABLE BELOW on the top of the marker molded into the marker and not separately surface applied.

Furnish conduit rigid non-metallic 1-inch for connection into the communications vault.

C Construction

Provide installation at locations shown on the plans and as directed by the engineer. Install so that marker cannot be pulled out or removed manually. Install per manufacturers' recommendation.

Install conduit rigid non-metallic 1-inch into the communications vault. Connect locate wire to fiber tracer marker post terminal. Follow all manufacturers' recommended installation procedures.

Restore all areas disturbed by construction activities to the original grade lines with topsoil and seed and mulch the topsoil. Topsoil, seed, and mulch shall meet the requirements of standard spec 625, 630, and 627 respectively.

D Measurement

The department will measure Fiber Tracer Marker Post as each individual fiber tracer marker post, 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.0060.01	Fiber Tracer Marker Post	Each

Payment is full compensation for providing and installing all materials, making all connections, restoration of ground to original condition including any topsoil, seed, fertilizer, mulch or sod; and for disposing of any surplus materials.

23. Install Luminaire Arms Steel 15-Ft 15-5/8-Inch Clamp, Item SPV.0060.02.

A Description

This special provision describes assembling and installing steel luminaire arms according to standard spec 657 and as hereinafter provided.

B Materials

Schedule delivery of the luminaire arms immediately upon contract execution.

C Construction

Install luminaire arms according to standard spec 657.3.

The contractor shall contact the department's electrical unit to determine the orientation of the luminaire arms. Contact the department five days prior to drilling Type 13 poles for luminaire arms.

D Measurement

The department will measure Install Luminaire Arms Steel 15-FT 15-5/8-Inch Clamp, as each individual unit, 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.0060.02	Install Luminaire Arms Steel 15-Ft 15-5/8-Inch Clamp	Each

Payment is full compensation for assembling and installing the luminaire arms.

24. Removing Overhead Signs Type II, Item SPV.0060.03.

A Description

This special provision describes removing overhead signs type II according to standard spec 638 and as hereinafter provided.

B (Vacant)

C Construction

Remove overhead signs type II according to standard spec 638.3.

D Measurement

The department will measure Removing Overhead Signs Type II, as each individual unit, 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.0060.03	Removing Overhead Signs Type II	Each

Payment is full compensation for removal of overhead signs type II.

25. Install State Furnished EVP System USH 12 & Truax Blvd, Item SPV.0105.01; USH 12 & Folsom St, Item SPV.0105.02; USH 12 & Moholt Dr, Item SPV.0105.03; USH 12 & Vine St, Item SPV.0105.04; USH 12 & Cameron St, Item SPV.0105.05; USH 12 & Menomonie St, Item SPV.0105.06; USH 12 & Craig Rd, Item SPV.0105.07; USH 12 & STH 37, Item SPV.0105.08; USH 12 & University Dr, Item SPV.0105.09; USH 12 & Stein Blvd, Item SPV.0105.10; USH 12 & Patton St, Item SPV.0105.11; USH 12 & Rudolph Rd, Item SPV.0105.12; USH 12 & Keith St, Item SPV.0105.13; USH 12 & Fairfax St, Item SPV.0105.14; USH 12 & Bus 53 West Ramps, Item SPV.0105.15; USH 12 & Bus 53 East Ramps, Item SPV.0105.16; USH 12 & Otter Rd, Item SPV.0105.17; STH 93 & Lorch Ave, Item SPV.0105.18; STH 93 & Golf Rd, Item SPV.0105.19; STH 312 & Jeffers Rd, Item SPV.0105.20 STH 124 & 40th Ave, Item SPV.0105.21.

A Description

This special provision describes installing department supplied EVP equipment on poles at the specified intersection as shown in the plans.

B Materials

The department will provide the EVP receivers, EVP cable, mounting bracket, reducing bushing, lock ring, pinnacle (cap), and pole grommet (or chase nipple). The contractor shall provide all stainless steel banding materials and incidental items necessary for installation.

C Construction

The mounting configuration shall be as shown in the plans. Install the supplied cable from the traffic signal control cabinet to the EVP receiver with only one splice, which shall be in the mounting pole base. Include a six foot loop of spare cable in the pull box nearest the mounting pole. Wire the receiver per supplied manufacturer's recommendation. Aim the EVP receiver per the manufacturer's recommendation. When the installation is complete, advise the engineer who will contact the region electrical personnel for testing and final acceptance. Allow three days for scheduling of test.

D Measurement

The department will measure Install State Furnished EVP System (location), as a single lump sum unit of work, 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.0105.01	Install State Furnished EVP System USH 12 & Truax Blvd	LS
SPV.0105.02	Install State Furnished EVP System USH 12 & Folsom St	LS
SPV.0105.03	Install State Furnished EVP System USH 12 & Moholt Dr	LS
SPV.0105.04	Install State Furnished EVP System USH 12 & Vine St	LS
SPV.0105.05	Install State Furnished EVP System USH 12 & Cameron St	LS
SPV.0105.06	Install State Furnished EVP System USH 12 & Menomonie St	LS
SPV.0105.07	Install State Furnished EVP System USH 12 & Craig Rd	LS
SPV.0105.08	Install State Furnished EVP System USH 12 & STH 37	LS
SPV.0105.09	Install State Furnished EVP System USH 12 & University Dr	LS
SPV.0105.10	Install State Furnished EVP System USH 12 & Stein Blvd	LS
SPV.0105.11	Install State Furnished EVP System USH 12 & Patton St	LS
SPV.0105.12	Install State Furnished EVP System USH 12 & Rudolph Rd	LS
SPV.0105.13	Install State Furnished EVP System USH 12 & Keith St	LS
SPV.0105.14	Install State Furnished EVP System USH 12 & Fairfax St	LS
SPV.0105.15	Install State Furnished EVP System USH 12 & Bus. 53 West Ramps	LS
SPV.0105.16	Install State Furnished EVP System USH 12 & Bus. 53 East Ramps	LS

SPV.0105.17	Install State Furnished EVP System USH 12 & Otter Rd	LS
SPV.0105.18	Install State Furnished EVP System STH 93 & Lorch Ave	LS
SPV.0105.19	Install State Furnished EVP System STH 93 & Golf Rd	LS
SPV.0105.20	Install State Furnished EVP System STH 312 & Jeffers Rd	LS
SPV.0105.21	Install State Furnished EVP System STH 124 & 40 th Ave	LS

Payment is full compensation for installing the department furnished emergency vehicle preemption system, testing and set up, and making the EVP system fully operational.

- 26. Remove Traffic Signals USH 12 & Truax Blvd, Item SPV.0105.22; USH 12 & Folsom St, Item SPV.0105.23; USH 12 & Moholt Dr, Item SPV.0105.24; USH 12 & Vine St, Item SPV.0105.25; USH 12 & Cameron St, Item SPV.0105.26; USH 12 & Menomonie St, Item SPV.0105.27; USH 12 & Craig Rd, Item SPV.0105.28; USH 12 & STH 37, Item SPV.0105.29; USH 12 & University Dr, Item SPV.0105.30; USH 12 & Stein Blvd, Item SPV.0105.31; USH 12 & Patton St, Item SPV.0105.32; USH 12 & Rudolph Rd, Item SPV.0105.33; USH 12 & Keith St, Item SPV.0105.34; USH 12 & Fairfax St, Item SPV.0105.35; USH 12 & Bus 53 West Ramps, Item SPV.0105.36; USH 12 & Bus 53 East Ramps, Item SPV.0105.37; USH 12 & Otter Rd, Item SPV.0105.38; STH 93 & Lorch Ave, Item SPV.0105.39; STH 93 & Golf Rd, Item SPV.0105.40; STH 312 & Jeffers Rd, Item SPV.0105.41; STH 124 & 40th Ave, Item SPV.0105.42; STH 25 & Cedar Falls Rd, Item SPV.0105.43.**

A Description

This special provision describes removing existing traffic signals at the following intersections according to the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

B (Vacant)

C Construction

Arrange for the de-energizing of the traffic signals with the department's Electrical Field Unit after receiving approval from the engineer that the existing traffic signals can be removed.

Notify the department's Electrical Field Unit at (715) 839-3787 at least three weeks prior to the beginning of the traffic signal removal work. Complete the removal work as soon as possible following shut down of this equipment.

The department assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working traffic signal equipment to the engineer. Any equipment not

identified as damaged or not working, prior to removal, shall be replaced by the contractor at no cost.

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove the bases from each pole. Remove the signal heads, mast arms, wiring/cabling, and traffic signal mounting devices from each signal standard, arm or pole. Ensure that all access hand hole doors and all associated hardware remain intact. Dispose of the underground signal cable and internal wires off the state right-of-way. Salvage the above ground equipment and deliver it to the Northwest Region – Eau Claire Office Electrical Shop, Highway 53 South, Eau Claire, WI. Contact the department's electrical field unit at (715) 839-3787 at least three working days prior to delivery to make arrangements.

Traffic signals shall remain operational during construction. Only the traffic signal heads associated with monotube pole installation may be out of service at any one time. Each signal face shall be in operation at all times work is not being actively performed on that face, including overnight.

D Measurement

The department will measure Remove Traffic Signals (location) as a single lump sum unit of work for each intersection acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.22	Remove Traffic Signals USH 12 & Truax Blvd	LS
SPV.0105.23	Remove Traffic Signals USH 12 & Folsom St	LS
SPV.0105.24	Remove Traffic Signals USH 12 & Moholt Dr	LS
SPV.0105.25	Remove Traffic Signals USH 12 & Vine St	LS
SPV.0105.26	Remove Traffic Signals USH 12 & Cameron St	LS
SPV.0105.27	Remove Traffic Signals USH 12 & Menomonie St	LS
SPV.0105.28	Remove Traffic Signals USH 12 & Craig Rd	LS
SPV.0105.29	Remove Traffic Signals USH 12 & STH 37	LS
SPV.0105.30	Remove Traffic Signals USH 12 & University Dr	LS
SPV.0105.31	Remove Traffic Signals USH 12 & Stein Blvd	LS
SPV.0105.32	Remove Traffic Signals USH 12 & Patton St	LS
SPV.0105.33	Remove Traffic Signals USH 12 & Rudolph Rd	LS
SPV.0105.34	Remove Traffic Signals USH 12 & Keith St	LS
SPV.0105.35	Remove Traffic Signals USH 12 & Fairfax St	LS
SPV.0105.36	Remove Traffic Signals USH 12 & Bus. 53 West Ramps	LS
SPV.0105.37	Remove Traffic Signals USH 12 & Bus. 53 East Ramps	LS
SPV.0105.38	Remove Traffic Signals USH 12 & Otter Rd	LS
SPV.0105.39	Remove Traffic Signals STH 93 & Lorch Ave	LS
SPV.0105.40	Remove Traffic Signals STH 93 & Golf Rd	LS

SPV.0105.41	Remove Traffic Signals STH 312 & Jeffers Rd	LS
SPV.0105.42	Remove Traffic Signals STH 124 & 40 th Ave	LS
SPV.0105.43	Remove Traffic Signals STH 25 & Cedar Falls Rd	LS

Payment is full compensation for removing, disassembling traffic signals, scrapping of some materials, disposing of scrap material, delivering the requested materials to the department, and incidentals necessary to complete the contract work.

- 27. Install State Furnished Traffic Signal Mounting Hardware (Ornamental)**
USH 12 & Truax Blvd, Item SPV.0105.44; USH 12 & Folsom St, Item SPV.0105.45; USH 12 & Moholt Dr, Item SPV.0105.46; USH 12 & Vine St, Item SPV.0105.47; USH 12 & Cameron St, Item SPV.0105.48; USH 12 & Menomonie St, Item SPV.0105.49; USH 12 & Craig Rd, Item SPV.0105.50; USH 12 & STH 37, Item SPV.0105.51; USH 12 & University Dr, Item SPV.0105.52; USH 12 & Stein Blvd, Item SPV.0105.53; USH 12 & Patton St, Item SPV.0105.54; USH 12 & Rudolph Rd, Item SPV.0105.55; USH 12 & Keith St, Item SPV.0105.56; USH 12 & Fairfax St, Item SPV.0105.57; USH 12 & Bus 53 West Ramps, Item SPV.0105.58; USH 12 & Bus 53 East Ramps, Item SPV.0105.59; USH 12 & Otter Rd, Item SPV.0105.60; STH 93 & Lorch Ave, Item SPV.0105.61; STH 93 & Golf Rd, Item SPV.0105.62; STH 312 & Jeffers Rd, Item SPV.0105.63; STH 124 & 40th Ave, Item SPV.0105.64; STH 25 & Cedar Falls Rd, Item SPV.0105.65.

A Description

This work shall be according to the requirements of standard spec 658, the plans, standard detail drawings, and as hereinafter provided.

B Materials

All ornamental and non-ornamental traffic signal mounting hardware components will be furnished by the department Northwest Region electrical unit. The contractor shall provide all stainless banding materials and incidental items necessary for installation. Incidental materials shall be according to standard spec 658.2.1.

C Construction

Install department furnished traffic signal mounting hardware according to the plans and standard spec 658.3.1.

D Measurement

The department will measure Install State Furnished Traffic Signal Mounting Hardware (Ornamental), (location) completed according to the contract and accepted, as a single complete lump sum unit of work.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.44	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Truax Blvd	LS
SPV.0105.45	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Folsom St	LS
SPV.0105.46	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Moholt Dr	LS
SPV.0105.47	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Vine St	LS
SPV.0105.48	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Cameron St	LS
SPV.0105.49	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Menomonie St	LS
SPV.0105.50	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Craig Rd	LS
SPV.0105.51	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & STH 37	LS
SPV.0105.52	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & University Dr	LS
SPV.0105.53	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Stein Blvd	LS
SPV.0105.54	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Patton St	LS
SPV.0105.55	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Rudolph Rd	LS
SPV.0105.56	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Keith St	LS
SPV.0105.57	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Fairfax St	LS
SPV.0105.58	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Bus. 53 West Ramps	LS
SPV.0105.59	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Bus. 53 East Ramps	LS
SPV.0105.60	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) USH 12 & Otter Rd	LS
SPV.0105.61	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) STH 93 & Lorch Ave	LS
SPV.0105.62	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) STH 93 & Golf Rd	LS
SPV.0105.63	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) STH 312 & Jeffers Rd	LS

SPV.0105.64	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) STH 124 & 40 th Ave	LS
SPV.0105.65	Install State Furnished Traffic Signal Mounting Hardware (Ornamental) STH 25 & Cedar Falls Rd	LS

Payment is full compensation according to standard spec 658.5.

28. Removing Old Sign Bridge Single Pole S-18-057, Item SPV.0105.66.

A Description

This special provision describes completely removing and disposing of an existing sign structure (sign bridge or overhead sign support) and its components, and all landscaping necessary to restore the affected site from construction activity, at the location and description shown on the plans, and as directed by the engineer.

B (Vacant)

C Construction

When applied, contractor shall coordinate with electrical agencies, and disconnect power to the sign structure prior to removing electrical components. Power to the luminaires on the freeway and ramps must stay active throughout construction. Remove or abandon electrical branch circuits as shown on the lighting plans. All electrical parts attached to the sign structure will be considered scrap unless the contract includes pay items for salvaging or stockpiling selected electrical pieces.

Any erosion control necessary as directed by the engineer shall be installed per the requirements of standard spec 628.

Do not remove the existing sign structure until all existing signs have been removed from the structure. Removal of signs and DMS will be measured and paid for under other items.

Ensure no damage occurs to any existing element to remain, nearby structures and parapet/railing during removal. Any damage during the removal operation shall be repaired by the contractor at no additional expense to the department. Once removed, the sign structure becomes property of the contractor.

Remove concrete supports, footings and drilled shafts according to standard spec 204. The contractor shall provide protection to any stay-in-place salvaged component with plywood housing or other methods as approved by the engineer.

Restore all areas disturbed by construction activities to the original grade lines with topsoil and seed and mulch the topsoil. Topsoil, seed, and mulch shall meet the requirements of standard spec 625, 630, and 627 respectively.

D Measurement

The department will measure Removing Old Sign Bridge Single Pole S-18-057 completed according to the contract and accepted, as a single complete lump sum unit of work.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.66	Removing Old Sign Bridge Single Pole S-18-057	LS

Payment is full compensation for coordinating and disconnecting electrical power to the structure; for removing and disposing the sign structure and all attached components including concrete supports and footings; for protecting salvaged materials; for erosion control; and for backfilling and restoring areas disturbed by construction activities.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

ADDITIONAL SPECIAL PROVISION 6
ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

109.1.1.2 Bid Items Designated as Pay Plan Quantity

Replace the entire text with the following effective with the June 2017 letting:

109.1.1.2.1 General

- (1) If the schedule of items designates a bid item with a ****P**** in the item description, the department will use the plan quantity, the approximate quantity the schedule of items shows, for payment unless one or both of the following occurs:
- Scope changes regardless of the magnitude of the revised work.
 - Errors and omissions that affect the plan quantity.

109.1.1.2.2 Scope Changes

- (1) For engineer-directed quantity increases, the engineer will issue a contract change order for extra work, establish the cost of the added work as specified in 109.4, and measure the revised work. For engineer-directed quantity decreases, the engineer will issue a contract change order to adjust the plan quantity under the designated bid item.

109.1.1.2.3 Errors and Omissions

- (1) The engineer may issue a change order under 105.4(5) to adjust the plan quantity for an error or omission and may revise the contract unit price as specified in 109.4.
-

305.2.1 General

Replace paragraph two with the following effective with the June 2017 letting:

- (2) Where the contract specifies or allows 1 1/4-inch base, do not place reclaimed asphalt, reprocessed material, or blended materials below virgin aggregate materials unless the contract specifies or the engineer allows in writing.
-

310.2 Materials

Replace paragraph three with the following effective with the June 2017 letting:

- (3) Do not place reclaimed asphalt, reprocessed material, or blended materials below open-graded base unless the contract specifies or the engineer allows in writing.
-

320.3.1.1 Consolidating, Finishing, and Curing

Replace paragraph two with the following effective with the June 2017 letting:

- (2) Cure concrete base as specified for concrete pavement in 415.3.12. Use wax-based curing compound conforming to 501.2.9.
-

390.3.2 Concrete Patching

Replace paragraph two with the following effective with the June 2017 letting:

- (2) Cure exposed patches as specified for concrete pavement in 415.3.12. Use wax-based curing compound conforming to 501.2.9. Protect as specified for concrete pavement in 415.3.14. Open to traffic as specified for concrete base in 320.3.

390.3.4 Special High Early Strength Concrete Patching

Replace the entire text with the following effective with the June 2017 letting:

- (1) Construct as specified for special high early strength repairs under 416.3.8 except as follows:
 - The contractor may delay removal for up to 14 calendar days after cutting the existing pavement.
 - Open to traffic as specified for concrete base in 320.3.
 - (2) Cure exposed patches as specified for concrete pavement in 415.3.12. Use wax-based curing compound conforming to 501.2.9. Do not apply excess curing compound that could cause slippery pavement under traffic.
-

440.3.5.2 Corrective Actions for Localized Roughness

Replace paragraph two with the following effective with the September 2016 letting:

- (2) The engineer will not direct corrective action or assess a pay reduction for an area of localized roughness without physically riding that work. The engineer will not direct corrective action on bridges without authorization from the department's bureau of structures.
-

450.3.1.1.4 Recording Truck Loads

Replace the entire text with the following effective with the December 2016 letting:

- (1) If not using automatic batch recording, install a digital recorder as part of the platform truck or storage silo scales. Ensure that the recorder can produce a printed digital record of at least the gross or net weights of delivery trucks. Provide gross, tare, net weights, load count, and the cumulative tonnage; the date, time, ticket number, WisDOT project ID, and mix 250 number; and the mix type including the traffic, binder, and mix designation codes specified in 460.3.1. Ensure that scales cannot be manually manipulated during the printing process. Provide an interlock to prevent printing until the scales come to rest. Size the scales and recorder to accurately weigh the heaviest loaded trucks or tractor-trailers hauling asphaltic mixture. Ensure that recorded weights are accurate to within 0.1 percent of the nominal capacity of the scale.
 - (2) Ensure that tickets identify additives not included in the mix design submittal. Indicate on the ticket if the mixture will be placed under a cold weather paving plan and identify the warm mix additive and dosage rate required under 450.3.2.1.2.2.
-

455.3.2.1 General

Replace paragraph one with the following effective with the December 2016 letting:

- (1) Apply tack coat only when the air temperature is 32 F or more unless the engineer approves otherwise in writing. Before applying tack coat ensure that the surface is reasonably free of loose dirt, dust, or other foreign matter. Do not apply to surfaces with standing water. Do not apply if weather or surface conditions are unfavorable or before impending rains.
-

460.2.1 General

Replace the entire text with the following effective with the December 2016 letting:

- (1) Furnish a homogeneous mixture of coarse aggregate, fine aggregate, mineral filler if required, SMA stabilizer if required, recycled material if used, warm mix asphalt additive or process if used, and asphaltic material. Design mixtures conforming to table 460-1 and table 460-2 to 4.0% air voids to establish the aggregate structure.
- (2) Determine the target JMF asphalt binder content for production from the mix design data corresponding to 3.0% air voids (97% Gmm) target at the design the number of gyrations (Ndes). Add liquid asphalt to achieve the required air voids at Ndes.
- (3) For SMA, determine the target JMF asphalt binder content for production from the mix design data corresponding to 4.0% air voids (96% Gmm) target at Ndes.

460.2.8.2.1.5 Control Limits

Replace paragraph one with the following effective with the December 2016 letting:

- (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]	+1.3/-1.0	+1.0/-0.7
VMA in percent ^[2]	- 0.5	- 0.2

^[1] For SMA, JMF limits are +/-1.3 and warning limits are +/-1.0.

^[2] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1.

460.2.8.2.1.6 Job Mix Formula Adjustment

Replace paragraph one with the following effective with the December 2016 letting:

- (1) The contractor may request adjustment of the JMF according to CMM 8-36.6.13.1. Have an HMA technician certified at a level appropriate for process control and troubleshooting or mix design submit a written JMF adjustment request. Ensure that the resulting JMF is within specified master gradation bands. The department will have a certified Hot Mix Asphalt, Mix Design, Report Submittals technician review the proposed adjustment and, if acceptable, issue a revised JMF.

460.2.8.3.1.6 Acceptable Verification Parameters

Replace paragraph one with the following effective with the December 2016 letting:

- (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. For SMA, Va is within a range of 2.7 to 5.3 percent.
 - VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.

460.3.3.1 Minimum Required Density

Replace paragraph one with the following effective with the December 2016 letting:

- (1) Compact all layers of HMA mixture to the density table 460-3 shows for the applicable mixture, location, and layer.

TABLE 460-3 MINIMUM REQUIRED DENSITY^[1]

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

^[1] 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.

^[2] Includes parking lanes as determined by the engineer.

^[3] 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.

460.5.2.1 General

Replace paragraph six with the following effective with the December 2016 letting:

- (6) If during a QV dispute resolution investigation the department discovers mixture with $1.5 > V_a > 5.0$ or VMA more than 1.0 below the minimum allowed in table 460-1, and the engineer allows that mixture to remain in place, the department will pay for the quantity of affected material at 50 percent of the contract price.

460.5.2.3 Incentive for HMA Pavement Density

Replace paragraph one with the following effective with the December 2016 letting:

- (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^[1]

PERCENT LOT DENSITY ABOVE SPECIFIED MINIMUM	PAY ADJUSTMENT PER TON ^[2]
From -0.4 to 1.0 inclusive	\$0
From 1.1 to 1.8 inclusive	\$0.40
More than 1.8	\$0.80

^[1] SMA pavements are not eligible for density incentive.

^[2] The department will prorate the pay adjustment for a partial lot.

501.2.6 Fly Ash

Replace the entire subsection with the following effective with the December 2016 letting:

501.2.6.1 General

- (1) Fly ash is defined as a finely divided residue resulting from the combustion of coal in a base loaded electric generating plant, transported from the boiler by flue gases, and later collected, generally by precipitators. Use fly ash in concrete manufactured by facilities and processes known to provide satisfactory material.
- (2) Test fly ash using a recognized laboratory, as defined in 501.2.2(1), starting at least 30 days before its proposed use, and continuing at ASTM-required frequencies as the work progresses. The manufacturer shall test the chemical and physical properties listed in tables 1 and 2 of ASTM C618 at the frequencies and by the test methods prescribed in ASTM C311.
- (3) Use only one source of fly ash for a bid item of work under the contract, unless the engineer directs or allows otherwise in writing.
- (4) Prequalify any proposed fly ash source as follows: The contractor shall obtain a copy of the certified report of tests or analysis made by a qualified independent laboratory, recognized by the department under 501.2.2, showing full and complete compliance with the above specification from the fly ash manufacturer and furnish it to the engineer. Provide this report to the engineer at least 14 calendar days before using the fly ash.
- (5) The manufacturer shall retain test records for at least 5 years after completing the work, and provide these records upon request.

501.2.6.2 Class C Ash

- (1) Conform to ASTM C618 class C except limit the loss on ignition to a maximum of 2 percent.

501.2.6.3 Class F Ash

- (2) Furnish a class F fly ash from a source listed on the department's approved product list, and conform to ASTM C618 class F except limit the loss on ignition to a maximum of 2 percent.

502.3.7.8 Floors

Replace paragraph sixteen with the following effective with the September 2016 letting:

- (16) The finished bridge floor shall conform to the surface test specified in 415.3.10. The engineer will not direct corrective grinding without authorization from the department's bureau of structures.

503.3.2.1.1 Tolerances

Increase the "length of beam" max tolerance for prestressed concrete I-type girders from 3/4" to 1 1/2" effective with the December 2016 letting:

PRESTRESSED CONCRETE I-TYPE GIRDERS

Length of beam..... +/- 1/8" per 10', up to a max of +/- 1 1/2"

Errata

Make the following corrections to the standard specifications:

104.2.2.5 Change Orders for Eliminated Work

Correct errata by changing "eliminated bid items" to "eliminated work."

104.2.2.5 Change Orders for Eliminated Work

- (1) The department has the right to partially eliminate or completely eliminate work the project engineer finds to be unnecessary for the project. If the project engineer partially eliminates or completely eliminates work, the project engineer will issue a contract change order for a fair and equitable amount as specified in 109.5.
-

105.4 Coordination of the Contract Documents

Correct errata to change "apparent error or omission" to just "error or omission."

- (5) Neither the contractor nor the department may take advantage of an error or omission in the contract. Notify the engineer immediately as specified in 104.3 upon discovering an error or omission. The engineer will offer an interpretation and make the necessary corrections.
-

105.13.4 Content of Claim

Correct errata to change references to the "Blue Book" rates to reference "EquipmentWatch" rates.

- (1) Include the following 5 items in the claim.
 1. A concise description of the claim.
 2. A clear contractual basis for the claim. This should include reference to 104.2 on revisions to the contract and as appropriate, specific reference to contract language regarding the bid items in question.
 3. Other facts the contractor relies on to support the claim.
 4. A concise statement of the circumstances surrounding the claim and reasons why the department should pay the claim. Explain how the claimed work is a change to the contract work.
 5. A complete breakdown of the costs used to compile the claim. Include copies of all EquipmentWatch equipment rental rate sheets used, with the applicable number highlighted.
-

108.13 Terminating the Contract for Convenience of the Department

Correct errata by changing "eliminated bid items" to "eliminated work."

- (4) If the department orders termination of the contract for convenience, the department will pay for all completed work as of that date at the contract price. The department will pay for partially completed work at agreed prices or by force account methods specified in 109.4.5 provided, however, that payment does not exceed the contract price for the bid item under which the work was performed. The department will pay for work eliminated by the termination only to the extent provided under 109.5. The department will pay for new work, if any, at agreed prices or paid for by force account methods specified in 109.4.5.

109.2 Scope of Payment

Correct errata to clarify that work under the contract is included in payment unless specifically excluded.

- (2) The department will pay for the quantity of work acceptably completed and measured for payment as the measurement subsection for each bid item specifies. Within the contract provide means to furnish and install the work complete and in-place. Payment is full compensation for everything required to perform the work under the contract including, but not limited to, the work elements listed in the payment subsection. Payment also includes all of the following not specifically excluded in that payment subsection:
1. Furnishing and installing all materials as well as furnishing the labor, tools, supplies, equipment, and incidentals necessary to perform the work.
 2. All losses or damages, except as specified in 107.14, arising from one or more of the following:
 - The nature of the work.
 - The action of the elements.
 - Unforeseen difficulties encountered during prosecution of the work.
 3. All insurance costs, expenses, and risks connected with the prosecution of the work.
 4. All expenses incurred because of an engineer-ordered suspension, except as specified in 104.2.2.3.
 5. All infringements of patents, trademarks, or copyrights.
 6. All other expenses incurred to complete and protect the work under the contract.

109.4.5.5.1 General

Correct errata to change references to the "Blue Book" rates to reference "EquipmentWatch" rates.

- (2) The department will pay for use of contractor-owned equipment the engineer approves for force account work at published rates. The department will pay the contractor expense rates, as modified in 109.4.5.5, given in EquipmentWatch Cost Recovery (formerly Rental Rate Blue Book) . Base all rates on revisions effective on January 1 for all equipment used in that calendar year.

<http://equipmentwatch.com/estimator/>

109.4.5.5.2 Hourly Equipment Expense Rates (Without Operators)

Correct errata to change references to the "Blue Book" rates to reference "EquipmentWatch" rates.

- (1) The contractor shall determine, and the department will confirm, hourly equipment expense rates as follows:

$$\text{HEER} = [\text{RAF} \times \text{ARA} \times (\text{R}/176)] + \text{HOC}$$

Where:

HEER = Hourly equipment expense rate.

RAF = EquipmentWatch regional adjustment factor.

ARA = EquipmentWatch age rate adjustment factor.

R = Current EquipmentWatch monthly rate.

HOC = EquipmentWatch estimated hourly operating cost.

- (2) The EquipmentWatch hourly operating cost represents all costs of equipment operation, including fuel and oil, lubrication, field repairs, tires, expendable parts, and supplies.

109.4.5.5.3 Hourly Equipment Stand-By Rate

Correct errata to change references to the "Blue Book" rates to reference "EquipmentWatch" rates.

- (1) For equipment that is in operational condition and is standing-by with the engineer's approval, the contractor shall determine, and the department will confirm, the hourly stand-by rate as follows:

$$\text{HSBR} = \text{RAF} \times \text{ARA} \times (\text{R}/176) \times (1/2)$$

Where:

HSBR = Hourly stand-by rate.

RAF = EquipmentWatch regional adjustment factor.

ARA = EquipmentWatch age rate adjustment factor.

R = Current EquipmentWatch monthly rate.

- (2) The department will limit payment for stand-by to 10 hours or less per day up to 40 hours per week. The department will not pay the contractor for equipment that is inoperable due to breakdown. The department will not pay for idle equipment if the contractor suspends work or if the contractor is maintaining or repairing the equipment.

109.4.5.5.4 Hourly Outside-Rented Equipment Rate

Correct errata to change references to the "Blue Book" rates to reference "EquipmentWatch" rates.

- (1) If the contractor rents or leases equipment from a third party for force account work, the contractor shall determine, and the department will confirm, the hourly outside-rented equipment rate as follows:

$$\text{HORER} = \text{HRI} + \text{HOC}$$

Where:

HORER = Hourly outside-rented equipment rate

HRI = Hourly rental invoice costs prorated for the actual number of hours that rented equipment is operated solely on force account work

HOC = EquipmentWatch hourly operating cost.

109.5 Eliminated Work

Correct errata by changing "eliminated bid items" to "eliminated work."

109.5 Eliminated Work

- (1) If the department partially eliminates or completely eliminates work as specified in 104.2.2.5, the department will pay contractor costs incurred due to that elimination. The department will pay a fair and equitable amount covering all costs incurred as of the date the work was deleted. Immediately submit a certified statement covering all money expended for the eliminated work.
- (2) The department will execute a contract change order for the following costs related to eliminated work:
1. Preparation expenses defined as follows:
 - If preparation for the eliminated work has no value to other contract work, the department will reimburse the contractor in full for that preparation.
 - If preparation for the eliminated work is distributed over other contract work, the department will prorate reimbursement based on the value of the eliminated work compared to the total value of associated contract work.
 2. All restocking and cancellation charges.
 3. A markup for applicable overhead and other indirect costs paid as 7 percent of the contract price of the work actually eliminated.
- (3) If the department partially eliminates or completely eliminates work, the department may pay for, and take ownership of, materials or supplies the contractor has already purchased.

201.3 Construction

Correct errata by changing the link from 201.3(14) to 201.3(15).

- (16) Dispose of clearing and grubbing debris before proceeding with grading operations. If the contractor intends to burn debris but cannot secure burning permits on schedule, do not delay removing clearing debris from areas affected by other operations. While waiting to secure burning permits, pile clearing and grubbing debris beyond the limits affected by other work. Do not leave elm debris beyond the limits specified in 201.3(15).

204.3.2.2.1 General

Correct errata by removing the reference to 490 which was deleted effective with the 2017 spec.

- (1) Under the Removing Pavement bid item, remove concrete pavements, concrete alleys, concrete driveways, or rigid base including all surfaces or other pavements superimposed on them.

440.1 Description

Correct errata to replace "150 feet of the points of curvature" with "entry and exit curves".

- (2) Profile the final mainline riding surfaces greater than 1500 feet in continuous length. Include bridges, bridge approaches, and railroad crossings in the calculation of IRI. Exclude roundabouts and pavements within their entry and exit curves from the calculation of IRI.

460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater

Correct 460.2.8.2.1.3.1 (6) to change the reference from ASTM D4867 to AASHTO T283.

- (6) Also conduct field tensile strength ratio tests according to AASHTO T283 on mixtures requiring an antistripping additive. Test each full 50,000 ton production increment, or fraction of an increment, after the first 5000 tons of production. Perform required increment testing in the first week of production of that increment. If field tensile strength ratio values are either below the spec limit or less than the mixture design JMF percentage value by 20 or more, notify the engineer. The engineer and contractor will jointly determine a corrective action.

506.2.8.3 Expansion Bearing Assemblies

Correct errata to update ASTMs and change the specified melting point from 622 +/- 3 to 621 +/- 18 F.

- (6) Use PTFE materials that are virgin polytetrafluoroethylene fluorocarbon resin, unfilled conforming to ASTM D4894. The finished materials shall exhibit the following physical properties:

REQUIREMENT	TEST METHOD	UNFILLED VALUE
Hardness at 78 F	ASTM D2240 Shore "D"	50-65
Tensile strength, psi	ASTM D1708	2800 Min.
Elongation, percent	ASTM D1708	200 Min.
Specific gravity	ASTM D792	2.16 +/- 0.03
Melting point	ASTM D4591	621 +/- 18 F

514.3.2 Adjusting Floor Drains

Correct errata by clarifying priming and painting requirements for adjusted floor drains.

- (1) If the plans show or contract specifies, provide new drain frames and inserts. Fabricate, blast clean, and apply a shop coat of primer. Touch up areas of damaged primer after installation with a department-approved organic zinc-rich primer.

657.2.2.1.1 General

Correct errata by eliminating the reference to department provided arms in the last sentence.

- (1) Furnish shop drawings as specified in 506.3.2, except submit 5 copies with the materials list. Ensure the drawings contain sufficient detail to allow satisfactory review and show the outside diameters of the pole at the butt, top, and splice locations the plans show. Show the width, depth, length, and thickness of all material, and list pertinent ASTM specification designations and metal alloy designations together with the tensile strength of metallic members. Provide tightening procedures for arm-to-pole connections on the shop drawings.
-

657.2.2.1.4 Poles Designed Under Legacy Standards

Correct errata by deleting the entire subsection to eliminate redundant language.

657.2.2.2 Trombone Arms

Correct errata by changing the reference from 657.2.2.1.3 to 657.2.2.1.2.

- (1) Design aluminum trombone arms as specified in 657.2.2.1.2 based on the completed maximum loading configuration the plans show. Furnish shop drawings conforming to 657.2.2.1.1 that show the width, depth, length, and thickness of all members. Also list the ASTM alloy designation and strength of each aluminum member on the shop drawings.
-

715.3.1.2.2 Lots by Lane-Feet

Correct errata ride spec reference from "the special provisions" to "440.3.4.2."

- (1) The contractor may designate slip-formed pavement lots and sublots conforming to the following:
 - Lots and sublots are one paving pass wide and may include one or more travel lanes, integrally placed shoulders, integrally placed ancillary concrete, and pavement gaps regardless of mix design and placement method.
 - Sublots are 1000 feet long for single-lane and 500 feet long for two-lane paving. Align subplot limits with ride segment limits defined in 440.3.4.2. Adjust terminal subplot lengths to match the project length or, for staged construction, the stage length. Ensure that subplot limits match for adjacent paving passes. Pavement gaps do not affect the location of subplot limits.
 - Create lots by grouping 4 to 8 adjacent sublots matching lots created for adjacent paving passes.

ADDITIONAL SPECIAL PROVISION 7

- A. Reporting 1st Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
 2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
 3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
 4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
 5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
 6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to submit certified payrolls electronically. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

<http://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>

(2) Ensure that all tiers of subcontractors, as well as all trucking firms, submit their weekly certified payrolls electronically through CRCS. These payrolls are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin payrolls. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.

(4) The department will reject all paper submittals of forms DT-1816 and DT-1929 for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon. Not every contractor's payroll system is capable of producing export files. For details, see pages 17-22 of the CRCS System Background Information manual available online on the Labor, Wages, and EEO Information page at:

<http://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>

Non-discrimination Provisions

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

- a. Withholding payments to the contractor under the contract until the contractor complies; and/or
- b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

Effective August 2015 letting

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

<http://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf>

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

<http://wisconsindot.gov/hcciDocs/contracting-info/ws4567.doc>

**WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF
TRANSPORTATION AND SYSTEM DEVELOPMENT**

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS

- I.** Prevailing Wage Rates, Hours of Labor, and Payment of Wages
- II.** Payroll Requirements
- III.** Postings at the Site of the Work
- IV.** Wage Rate Distribution
- V.** Additional Classifications

**I. PREVAILING WAGE RATES, HOURS OF LABOR AND PAYMENT OF
WAGES**

The U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) attached hereto and made a part hereof furnishes the prevailing wage rates pursuant to Section 84.062 of the Wisconsin Statutes. These wage rates are the minimum required to be paid to the laborers, workers, mechanics and truck drivers employed by contractors and subcontractors on the construction work embraced by the contract and subject to prevailing hours and wages under Section 84.062, Stats. Apprentices shall be paid at rates not less than those prescribed in their apprenticeship contract.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

Pursuant to Section 16.856 of the Wisconsin Statutes, the prevailing hours of labor have been determined to be up to 10 hours per day and 40 hours per calendar week Monday through Friday. If any laborer, worker, mechanic or truck driver is permitted or required to work more than the prevailing number of hours per day or per calendar week on this contract, they shall be paid for all hours in excess of the prevailing hours at a rate of at least one and one-half (1 1/2) times their hourly base rate of pay. All work on Saturday, Sunday and the following holidays is to be paid at time and a half:

January 1

Last Monday in May

July 4

First Monday in September

Fourth Thursday in November

December 25

The day before if January 1, July 4 or December 25 falls on a Saturday, and

The day following if January 1, July 4 or December 25 falls on a Sunday.

All laborers, workers, mechanics and truck drivers shall be paid unconditionally not less often than once a week. Persons who own and operate their own trucks must receive the prevailing truck driver rate for the applicable type of truck (i.e. 2 axle, 3 or more axle, articulated, euclid or dumptor) he or she operates, plus an agreed upon amount for the use of his or her truck. Every owner-operator MUST be paid separately for their driving and for the use of their truck.

II. PAYROLL REQUIREMENTS

All contractors and subcontractors must submit weekly Certified Payrolls and Compliance Statement verifying that all laborers, workers, mechanics and truck drivers working on the project have been paid the prevailing wage rates for all work performed under the contract required by Section 84.062 of the Wisconsin Statutes.

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the Department, the contractor shall post the following in at least one conspicuous and accessible place at the site of work:

- a. "NOTICE TO EMPLOYEES," which provides information required to be posted by the provisions of Section 84.062 of the Wisconsin Statutes.
- b. A copy of the U.S. Department of Labor (Davis-Bacon, Minimum Wage Rates).
- c. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. WAGE RATE REDISTRIBUTION

A contractor or subcontractor performing work subject to a Davis-Bacon wage determination may discharge its minimum wage obligations for the payment of both straight time wages and fringe benefits by (1) paying both in cash, (2) making payments or incurring costs for bona fide fringe benefits, or (3) by a combination thereof. Thus, under the Davis-Bacon a contractor may offset an amount of monetary wages paid in excess of the minimum wage required under the determination to satisfy its fringe benefit obligations. *See* 40 USC 3142(d) and 29 CFR 5.31.

V. ADDITIONAL CLASSIFICATIONS

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5(a)(1)(ii)). The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination.

The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- a. The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- b. The classification is utilized in the area by the construction industry; and
- c. The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

General Decision Number: WI170010 04/28/2017 WI10

Superseded General Decision Number: WI20160010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.20 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017
1	02/03/2017
2	02/10/2017
3	02/24/2017
4	03/17/2017
5	03/31/2017
6	04/21/2017
7	04/28/2017

BRWI0001-002 06/01/2016

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 31.84	20.95

BRWI0002-002 06/01/2016

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.04	19.70

BRWI0002-005 06/01/2016

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA,

CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC,
 FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE,
 LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE,
 OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK,
 SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA,
 WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.07	20.51

BRWI0003-002 06/01/2016

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.22	20.57

BRWI0004-002 06/01/2016

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 36.59	21.49

BRWI0006-002 06/01/2016

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
 ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.04	19.75

BRWI0007-002 06/01/2016

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 33.53	20.95

BRWI0008-002 06/01/2016

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 36.98	20.62

BRWI0011-002 06/01/2016

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

Rates	Fringes
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BRICKLAYER.....	\$ 32.22	20.57
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BRWI0019-002 06/01/2016

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 31.98	20.81

BRWI0034-002 06/01/2015

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 32.86	17.22

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys
35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,
BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,
CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except
area bordering Michigan State Line), FOND DU LAC, FOREST,
GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,
JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN,
MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE,
MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E.
of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE,
PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN,
ST CROIX (E. of Hwy 65), TAYLOR, TREMPLEAU, VERNON, VILAS,
WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIIVER.....	\$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
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Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11

CARP0361-004 05/01/2016

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 34.57	18.16

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69

ELEC0014-002 05/30/2016

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.00	19.28

ELEC0014-007 05/30/2016

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	\$ 24.35	13.15

Low voltage construction, installation, maintenance and

removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2016

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 37.71	30%+10.02

ELEC0158-002 05/30/2016

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
Electricians:.....	\$ 30.50	29.50% + 9.57

ELEC0159-003 05/30/2016

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
Electricians:.....	\$ 36.50	20.39

* ELEC0219-004 06/01/2016

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 32.38	18.63
Electrical contracts under \$180,000.....	\$ 30.18	18.42

ELEC0242-005 05/29/2016

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 34.92	25.05

ELEC0388-002 05/30/2016

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	\$ 30.69	26.00% +10.05

ELEC0430-002 06/01/2016

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 36.07	21.84

ELEC0494-005 06/01/2016

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 36.01	24.00

ELEC0494-006 06/01/2014

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 29.64	20.54

ELEC0494-013 06/01/2015

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 16.47	14.84
Technician.....	\$ 26.00	17.70

Installation, testing, maintenance, operation and servicing

of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

ELEC0577-003 05/30/2016

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:.....	\$ 30.68	17.28

ELEC0890-003 06/01/2016

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 32.45	26.10% + \$10.56

ELEC0953-001 07/01/2015

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 42.14	32% + 5.00
(2) Heavy Equipment Operator.....	\$ 40.03	32% + 5.00
(3) Equipment Operator.....	\$ 33.71	32% + 5.00
(4) Heavy Groundman Driver..	\$ 26.78	14.11
(5) Light Groundman Driver..	\$ 24.86	13.45
(6) Groundsman.....	\$ 23.18	32% + 5.00

ENGI0139-005 06/01/2016

	Rates	Fringes
Power Equipment Operator		

Group 1.....	\$ 39.27	21.80
Group 2.....	\$ 38.77	21.80
Group 3.....	\$ 38.27	21.80
Group 4.....	\$ 38.01	21.80
Group 5.....	\$ 37.72	21.80
Group 6.....	\$ 31.82	21.80

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" protection - \$3.00 per hour

EPA Level "B" protection - \$2.00 per hour

EPA Level "C" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender.

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2016

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 30.86	25.42

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUCKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 33.15	25.42

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2015

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 32.85	21.84

IRON0498-005 06/01/2016

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 36.29	30.77

IRON0512-008 05/01/2015

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPLEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 35.50	23.45

IRON0512-021 05/01/2015

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 31.04	23.45

LABO0113-002 06/01/2016

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 27.51	20.35
Group 2.....	\$ 27.66	20.35
Group 3.....	\$ 27.86	20.35
Group 4.....	\$ 28.01	20.35
Group 5.....	\$ 28.16	20.35
Group 6.....	\$ 24.00	20.35

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/01/2016

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.76	20.35
Group 2.....	\$ 26.86	20.35
Group 3.....	\$ 26.91	20.35
Group 4.....	\$ 27.11	20.35
Group 5.....	\$ 26.96	20.35
Group 6.....	\$ 23.85	20.35

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/01/2016

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 26.57	20.35
Group 2.....	\$ 26.72	20.35
Group 3.....	\$ 26.92	20.35
Group 4.....	\$ 26.89	20.35
Group 5.....	\$ 27.22	20.35
Group 6.....	\$ 23.71	20.35

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer;

Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/01/2016

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPLEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 30.67	16.55
Group 2.....	\$ 30.77	16.55
Group 3.....	\$ 30.82	16.55
Group 4.....	\$ 31.02	16.55
Group 5.....	\$ 30.87	16.55
Group 6.....	\$ 27.30	16.55

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/01/2016

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 30.95	16.41
Group 2.....	\$ 31.05	16.41
Group 3.....	\$ 31.10	16.41
Group 4.....	\$ 31.30	16.41
Group 5.....	\$ 31.15	16.41
Group 6.....	\$ 27.30	16.41

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer;
Demolition and Wrecking Laborer; Guard Rail, Fence, and
Bridge Builder; Landscaper; Multiplate Culvert Assembler;
Stone Handler; Bituminous Worker (Shoveler, Loader, and
Utility Man); Batch Truck Dumper or Cement Handler;
Bituminous Worker (Dumper, Ironer, Smoother, and Tamper);
Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawyer and Filler
(Pavement); Vibrator or Tamper Operator (Mechanical Hand
Operated); Chain Saw Operator; Demolition Burning Torch
Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter
(Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/02/2016

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 29.86	16.35
Spray, Sandblast, Steel....	\$ 30.46	16.35

Repaint:

Brush, Roller.....	\$ 28.36	16.35
Spray, Sandblast, Steel....	\$ 28.96	16.35

PAIN0108-002 06/01/2016

RACINE COUNTY

	Rates	Fringes
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Painters:

Brush, Roller.....	\$ 32.74	18.70
Spray & Sandblast.....	\$ 33.74	18.70

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK,
SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
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PAINTER.....	\$ 24.11	12.15
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PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
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PAINTER.....	\$ 22.03	12.45
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PAIN0781-002 06/01/2016

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
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Painters:

Bridge.....	\$ 30.42	22.19
Brush.....	\$ 30.07	22.19
Spray & Sandblast.....	\$ 30.82	22.19

PAIN0802-002 06/01/2016

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
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PAINTER

Brush.....	\$ 27.50	17.72
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PREMIUM PAY:

Structural Steel, Spray, Bridges = \$1.00 additional per
hour.

 PAIN0802-003 06/01/2016

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN
 LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC,
 MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA,
 OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS,
 WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER.....	\$ 24.39	11.72

PAIN0934-001 06/01/2016

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 32.74	18.70
Spray.....	\$ 33.74	18.70
Structural Steel.....	\$ 32.89	18.70

PAIN1011-002 06/01/2016

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 24.56	11.93

PLAS0599-010 06/01/2016

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 39.46	17.17
Area 2 (BAC).....	\$ 35.07	19.75
Area 3.....	\$ 35.61	19.40
Area 4.....	\$ 34.70	20.51
Area 5.....	\$ 36.27	18.73
Area 6.....	\$ 32.02	22.99

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN
 COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET,
 CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE,
 FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE,
 LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE,
 MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK,
 PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR,
 VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD
 COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA

CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND
VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK
COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2016

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 26.63	19.85
3 or more Axles; Euclids		
Dumptor & Articulated,		
Truck Mechanic.....	\$ 26.78	19.85

WELL DRILLER.....	\$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage

determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current

negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

March 2017

**NOTICE TO BIDDERS
WAGE RATE DECISION**

The wage rate decision of the Department of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Department of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate.

If a project includes multiple types of construction (highway, bridge over navigable water, sanitary sewer and water main, building) and there is not a separate wage determination for this type of work included in the proposal, use the wage determination that is in the proposal.



Proposal Schedule of Items

Page 1 of 13

Proposal ID: 20170711017 Project(s): 1000-08-81, 3700-50-26, 3700-50-27

Federal ID(s): N/A, N/A, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0010	204.0165 Removing Guardrail	525.000 LF	_____.	_____.
0020	204.0195 Removing Concrete Bases	31.000 EACH	_____.	_____.
0030	213.0100 Finishing Roadway (project) 01. 1000-08-81	1.000 EACH	_____.	_____.
0040	213.0100 Finishing Roadway (project) 02. 3700-50-26	1.000 EACH	_____.	_____.
0050	213.0100 Finishing Roadway (project) 03. 3700-50-27	1.000 EACH	_____.	_____.
0060	603.8000 Concrete Barrier Temporary Precast Delivered	2,000.000 LF	_____.	_____.
0070	603.8125 Concrete Barrier Temporary Precast Installed	2,000.000 LF	_____.	_____.
0080	614.0010 Barrier System Grading Shaping Finishing	1.000 EACH	_____.	_____.
0090	614.0905 Crash Cushions Temporary	2.000 EACH	_____.	_____.
0100	614.2300 MGS Guardrail 3	325.000 LF	_____.	_____.
0110	614.2610 MGS Guardrail Terminal EAT	2.000 EACH	_____.	_____.
0120	614.2620 MGS Guardrail Terminal Type 2	2.000 EACH	_____.	_____.
0130	616.0700.S Fence Safety	2,640.000 LF	_____.	_____.
0140	619.1000 Mobilization	1.000 EACH	_____.	_____.
0150	625.0500 Salvaged Topsoil	11,000.000 SY	_____.	_____.



Proposal Schedule of Items

Page 2 of 13

Proposal ID: 20170711017 Project(s): 1000-08-81, 3700-50-26, 3700-50-27

Federal ID(s): N/A, N/A, N/A

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	627.0200 Mulching	11,000.000 SY	_____.	_____.
0170	628.1504 Silt Fence	100.000 LF	_____.	_____.
0180	628.1520 Silt Fence Maintenance	100.000 LF	_____.	_____.
0190	628.1905 Mobilizations Erosion Control	10.000 EACH	_____.	_____.
0200	628.1910 Mobilizations Emergency Erosion Control	8.000 EACH	_____.	_____.
0210	628.7010 Inlet Protection Type B	22.000 EACH	_____.	_____.
0220	628.7015 Inlet Protection Type C	30.000 EACH	_____.	_____.
0230	628.7020 Inlet Protection Type D	30.000 EACH	_____.	_____.
0240	628.7504 Temporary Ditch Checks	250.000 LF	_____.	_____.
0250	629.0210 Fertilizer Type B	9.000 CWT	_____.	_____.
0260	630.0130 Seeding Mixture No. 30	206.000 LB	_____.	_____.
0270	630.0200 Seeding Temporary	303.000 LB	_____.	_____.
0280	634.0616 Posts Wood 4x6-Inch X 16-FT	4.000 EACH	_____.	_____.
0290	636.0100 Sign Supports Concrete Masonry	39.000 CY	_____.	_____.
0300	636.1500 Sign Supports Steel Coated Reinforcement HS	5,780.000 LB	_____.	_____.
0310	637.1220 Signs Type I Reflective SH	288.000 SF	_____.	_____.



Proposal Schedule of Items

Page 3 of 13

Proposal ID: 20170711017 Project(s): 1000-08-81, 3700-50-26, 3700-50-27

Federal ID(s): N/A, N/A, N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0320	637.2210 Signs Type II Reflective H	484.500 SF	_____.	_____.
0330	638.2102 Moving Signs Type II	7.000 EACH	_____.	_____.
0340	638.2601 Removing Signs Type I	2.000 EACH	_____.	_____.
0350	641.6600 Sign Bridge (structure) 01. S-18-118	LS	LUMP SUM	_____.
0360	643.0100 Traffic Control (project) 01. 1000-08-81	1.000 EACH	_____.	_____.
0370	643.0100 Traffic Control (project) 02. 3700-50-26	1.000 EACH	_____.	_____.
0380	643.0100 Traffic Control (project) 03. 3700-50-27	1.000 EACH	_____.	_____.
0390	643.0300 Traffic Control Drums	11,500.000 DAY	_____.	_____.
0400	643.0420 Traffic Control Barricades Type III	650.000 DAY	_____.	_____.
0410	643.0705 Traffic Control Warning Lights Type A	1,300.000 DAY	_____.	_____.
0420	643.0715 Traffic Control Warning Lights Type C	2,400.000 DAY	_____.	_____.
0430	643.0800 Traffic Control Arrow Boards	40.000 DAY	_____.	_____.
0440	643.0900 Traffic Control Signs	2,800.000 DAY	_____.	_____.
0450	643.1050 Traffic Control Signs PCMS	438.000 DAY	_____.	_____.
0460	646.0106 Pavement Marking Epoxy 4-Inch	70.000 LF	_____.	_____.
0470	646.0600 Removing Pavement Markings	280.000 LF	_____.	_____.
0480	647.0156 Pavement Marking Arrows Epoxy Type 1	3.000 EACH	_____.	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0490	647.0955 Removing Pavement Markings Arrows	3.000 EACH	_____.	_____.
0500	650.6500 Construction Staking Structure Layout (structure) 01. S-18-118	LS	LUMP SUM	_____.
0510	650.8500 Construction Staking Electrical Installations (project) 01. 1000-08-81	LS	LUMP SUM	_____.
0520	650.8500 Construction Staking Electrical Installations (project) 02. 3700-50-26	LS	LUMP SUM	_____.
0530	650.8500 Construction Staking Electrical Installations (project) 03. 3700-50-27	LS	LUMP SUM	_____.
0540	650.9910 Construction Staking Supplemental Control (project) 02. 3700-50-26	LS	LUMP SUM	_____.
0550	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	2,673.000 LF	_____.	_____.
0560	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,021.000 LF	_____.	_____.
0570	652.0605 Conduit Special 2-Inch	830.000 LF	_____.	_____.
0580	652.0615 Conduit Special 3-Inch	119.000 LF	_____.	_____.
0590	652.0700.S Install Conduit into Existing Item	56.000 EACH	_____.	_____.
0600	653.0140 Pull Boxes Steel 24x42-Inch	16.000 EACH	_____.	_____.
0610	653.0900 Adjusting Pull Boxes	1.000 EACH	_____.	_____.
0620	654.0102 Concrete Bases Type 2	1.000 EACH	_____.	_____.
0630	654.0113 Concrete Bases Type 13	44.000 EACH	_____.	_____.



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Proposal ID: 20170711017 Project(s): 1000-08-81, 3700-50-26, 3700-50-27

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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0640	655.0230 Cable Traffic Signal 5-14 AWG	17,372.000 LF	_____.	_____.
0650	655.0240 Cable Traffic Signal 7-14 AWG	298.000 LF	_____.	_____.
0660	655.0260 Cable Traffic Signal 12-14 AWG	825.000 LF	_____.	_____.
0670	655.0515 Electrical Wire Traffic Signals 10 AWG	12,104.000 LF	_____.	_____.
0680	655.0625 Electrical Wire Lighting 6 AWG	3,654.000 LF	_____.	_____.
0690	655.0630 Electrical Wire Lighting 4 AWG	660.000 LF	_____.	_____.
0700	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. ITS	LS	LUMP SUM	_____.
0710	656.0500 Electrical Service Breaker Disconnect Box (location) 01. CCTV-18-0042	LS	LUMP SUM	_____.
0720	656.0500 Electrical Service Breaker Disconnect Box (location) 02. CCTV-18-0043	LS	LUMP SUM	_____.
0730	656.0500 Electrical Service Breaker Disconnect Box (location) 03. DMS-18-0033	LS	LUMP SUM	_____.
0740	657.0100 Pedestal Bases	17.000 EACH	_____.	_____.
0750	657.0405 Traffic Signal Standards Aluminum 3.5-FT	10.000 EACH	_____.	_____.
0760	657.0425 Traffic Signal Standards Aluminum 15-FT	3.000 EACH	_____.	_____.
0770	657.0430 Traffic Signal Standards Aluminum 10-FT	4.000 EACH	_____.	_____.
0780	657.1355 Install Poles Type 12	22.000 EACH	_____.	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0790	657.1360 Install Poles Type 13	22.000 EACH	_____.	_____.
0800	657.1535 Install Monotube Arms 35-FT	2.000 EACH	_____.	_____.
0810	657.1540 Install Monotube Arms 40-FT	7.000 EACH	_____.	_____.
0820	657.1545 Install Monotube Arms 45-FT	19.000 EACH	_____.	_____.
0830	657.1550 Install Monotube Arms 50-FT	12.000 EACH	_____.	_____.
0840	657.1555 Install Monotube Arms 55-FT	4.000 EACH	_____.	_____.
0850	658.0190.S Traffic Signal Face - LED State Furnished	126.000 EACH	_____.	_____.
0860	658.0420.S Pedestrian Signal Face - LED State Furnished	4.000 EACH	_____.	_____.
0870	658.0500 Pedestrian Push Buttons	6.000 EACH	_____.	_____.
0880	662.2030.S Ramp Closure Gates Solar 30-FT	1.000 EACH	_____.	_____.
0890	670.0100 Field System Integrator 01. ITS	LS	LUMP SUM	_____.
0900	670.0200 ITS Documentation 01. ITS	LS	LUMP SUM	_____.
0910	671.0132 Conduit HDPE 3-Duct 2-Inch	21,450.000 LF	_____.	_____.
0920	671.0232 Conduit HDPE Directional Bore 3-Duct 2-Inch	1,435.000 LF	_____.	_____.
0930	671.0300 Fiber Optic Cable Marker	153.000 EACH	_____.	_____.
0940	672.0250 Base Camera Pole 50-FT	2.000 EACH	_____.	_____.



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Contract Items

Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0950	673.0105 Communication Vault Type 1	12.000 EACH	_____.	_____.
0960	673.0225.S Install Pole Mounted Cabinet	3.000 EACH	_____.	_____.
0970	677.0150 Install Camera Pole 50-FT	2.000 EACH	_____.	_____.
0980	677.0200 Install Camera Assembly	2.000 EACH	_____.	_____.
0990	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	5,265.000 LF	_____.	_____.
1000	678.0036 Install Fiber Optic Cable Outdoor Plant 36-CT	300.000 LF	_____.	_____.
1010	678.0072 Install Fiber Optic Cable Outdoor Plant 72-CT	24,700.000 LF	_____.	_____.
1020	678.0100.S Install Overhead Freeway DMS Full Matrix	1.000 EACH	_____.	_____.
1030	SPV.0060 Special 01. Fiber Tracer Marker Post	12.000 EACH	_____.	_____.
1040	SPV.0060 Special 02. Install Luminaire Arms Steel 15-Ft 15-5/8-Inch Clamp	22.000 EACH	_____.	_____.
1050	SPV.0060 Special 03. Removing Overhead Signs Type II	2.000 EACH	_____.	_____.
1060	SPV.0105 Special 01. Install State Furnished Evp System Ush 12 & Truax Blvd	LS	LUMP SUM	_____.
1070	SPV.0105 Special 02. Install State Furnished Evp System Ush 12 & Folsom St	LS	LUMP SUM	_____.
1080	SPV.0105 Special 03. Install State Furnished EVP System USH 12 & Moholt Dr	LS	LUMP SUM	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1090	SPV.0105 Special 04. Install State Furnished EVP System USH 12 & Vine St	LS	LUMP SUM	_____.
1100	SPV.0105 Special 05. Install State Furnished EVP System USH 12 & Cameron St	LS	LUMP SUM	_____.
1110	SPV.0105 Special 06. Install State Furnished EVP System USH 12 & Menomonie St	LS	LUMP SUM	_____.
1120	SPV.0105 Special 07. Install State Furnished EVP System USH 12 & Craig Rd	LS	LUMP SUM	_____.
1130	SPV.0105 Special 08. Install State Furnished EVP System USH 12 & STH 37	LS	LUMP SUM	_____.
1140	SPV.0105 Special 09. Install State Furnished EVP System USH 12 & University Dr	LS	LUMP SUM	_____.
1150	SPV.0105 Special 10. Install State Furnished EVP System USH 12 & Stein Blvd	LS	LUMP SUM	_____.
1160	SPV.0105 Special 11. Install State Furnished EVP System USH 12 & Patton St	LS	LUMP SUM	_____.
1170	SPV.0105 Special 12. Install State Furnished EVP System USH 12 & Rudolph Rd	LS	LUMP SUM	_____.
1180	SPV.0105 Special 13. Install State Furnished EVP System USH 12 & Keith St	LS	LUMP SUM	_____.
1190	SPV.0105 Special 14. Install State Furnished EVP System USH 12 & Fairfax St	LS	LUMP SUM	_____.
1200	SPV.0105 Special 15. Install State Furnished EVP System USH 12 & BUS 53 West Ramps	LS	LUMP SUM	_____.
1210	SPV.0105 Special 16. Install State Furnished EVP System USH 12 & BUS 53 East Ramps	LS	LUMP SUM	_____.



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Contract Items

Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1220	SPV.0105 Special 17. Install State Furnished EVP System USH 12 & Otter Rd	LS	LUMP SUM	_____.
1230	SPV.0105 Special 18. Install State Furnished EVP System STH 93 & Lorch Ave	LS	LUMP SUM	_____.
1240	SPV.0105 Special 19. Install State Furnished EVP System STH 93 & Golf Rd	LS	LUMP SUM	_____.
1250	SPV.0105 Special 20. Install State Furnished EVP System STH 312 & Jeffers Rd	LS	LUMP SUM	_____.
1260	SPV.0105 Special 21. Install State Furnished EVP System STH 124 & 40th Ave	LS	LUMP SUM	_____.
1270	SPV.0105 Special 22. Remove Traffic Signals USH 12 & Truax Blvd	LS	LUMP SUM	_____.
1280	SPV.0105 Special 23. Remove Traffic Signals USH 12 & Folsom St	LS	LUMP SUM	_____.
1290	SPV.0105 Special 24. Remove Traffic Signals USH 12 & Moholt Dr	LS	LUMP SUM	_____.
1300	SPV.0105 Special 25. Remove Traffic Signals USH 12 & Vine St	LS	LUMP SUM	_____.
1310	SPV.0105 Special 26. Remove Traffic Signals USH 12 & Cameron St	LS	LUMP SUM	_____.
1320	SPV.0105 Special 27. Remove Traffic Signals USH 12 & Menomonie St	LS	LUMP SUM	_____.
1330	SPV.0105 Special 28. Remove Traffic Signals USH 12 & Craig Rd	LS	LUMP SUM	_____.
1340	SPV.0105 Special 29. Remove Traffic Signals USH 12 & STH 37	LS	LUMP SUM	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1350	SPV.0105 Special 30. Remove Traffic Signals USH 12 & University Dr	LS	LUMP SUM	_____.
1360	SPV.0105 Special 31. Remove Traffic Signals USH 12 & Stein Blvd	LS	LUMP SUM	_____.
1370	SPV.0105 Special 32. Remove Traffic Signals USH 12 & Patton St	LS	LUMP SUM	_____.
1380	SPV.0105 Special 33. Remove Traffic Signals USH 12 & Rudolph Rd	LS	LUMP SUM	_____.
1390	SPV.0105 Special 34. Remove Traffic Signals USH 12 & Keith St	LS	LUMP SUM	_____.
1400	SPV.0105 Special 35. Remove Traffic Signals USH 12 & Fairfax St	LS	LUMP SUM	_____.
1410	SPV.0105 Special 36. Remove Traffic Signals USH 12 & BUS 53 West Ramps	LS	LUMP SUM	_____.
1420	SPV.0105 Special 37. Remove Traffic Signals USH 12 & BUS 53 East Ramps	LS	LUMP SUM	_____.
1430	SPV.0105 Special 38. Remove Traffic Signals USH 12 & Otter Rd	LS	LUMP SUM	_____.
1440	SPV.0105 Special 39. Remove Traffic Signals STH 93 & Lorch Ave	LS	LUMP SUM	_____.
1450	SPV.0105 Special 40. Remove Traffic Signals STH 93 & Golf Rd	LS	LUMP SUM	_____.
1460	SPV.0105 Special 41. Remove Traffic Signals STH 312 & Jeffers Rd	LS	LUMP SUM	_____.
1470	SPV.0105 Special 42. Remove Traffic Signals STH 124 & 40Th Ave	LS	LUMP SUM	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1480	SPV.0105 Special 43. Remove Traffic Signals STH 25 & Cedar Falls Rd	LS	LUMP SUM	_____.
1490	SPV.0105 Special 44. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Truax Blvd	LS	LUMP SUM	_____.
1500	SPV.0105 Special 45. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Folsom St	LS	LUMP SUM	_____.
1510	SPV.0105 Special 46. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Moholt Dr	LS	LUMP SUM	_____.
1520	SPV.0105 Special 47. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Vine St	LS	LUMP SUM	_____.
1530	SPV.0105 Special 48. Install S Furn Traf Sig Mount Hard (Ornamental) USH 12 & Cameron St	LS	LUMP SUM	_____.
1540	SPV.0105 Special 49. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Menomonie St	LS	LUMP SUM	_____.
1550	SPV.0105 Special 50. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Craig Rd	LS	LUMP SUM	_____.
1560	SPV.0105 Special 51. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & STH 37	LS	LUMP SUM	_____.
1570	SPV.0105 Special 52. Install St Furntraff Sig Mount Hard (Ornamental) USH 12 & University Dr	LS	LUMP SUM	_____.
1580	SPV.0105 Special 53. Install St Furn Traf Sign Mount Hard (Ornamental) USH 12 & Stein Blvd	LS	LUMP SUM	_____.
1590	SPV.0105 Special 54. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Patton St	LS	LUMP SUM	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1600	SPV.0105 Special 55. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Rudolph Rd	LS	LUMP SUM	_____.
1610	SPV.0105 Special 56. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Keith St	LS	LUMP SUM	_____.
1620	SPV.0105 Special 57. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Fairfax St	LS	LUMP SUM	_____.
1630	SPV.0105 Special 58. Install St Furn Traf Sig Mount Hard (Ornamental) USH12 & BUS 53 West Ramps	LS	LUMP SUM	_____.
1640	SPV.0105 Special 59. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & BUS 53 East Ramps	LS	LUMP SUM	_____.
1650	SPV.0105 Special 60. Install St Furn Traf Sig Mount Hard (Ornamental) USH 12 & Otter Rd	LS	LUMP SUM	_____.
1660	SPV.0105 Special 61. Install St Furn Traf Sig Mount Hard (Ornamental) STH 93 & Lorch Ave	LS	LUMP SUM	_____.
1670	SPV.0105 Special 62. Intall St Furn Traf Sig Mount Hard (Ornamental) STH 93 & Golf Rd	LS	LUMP SUM	_____.
1680	SPV.0105 Special 63. Install St Furn Traf Sig Mount Hard (Ornamental) STH 312 & Jeffers Rd	LS	LUMP SUM	_____.
1690	SPV.0105 Special 64. Install St Furn Traf Sig Mount Hard (Ornamental) STH 124 & 40th Ave	LS	LUMP SUM	_____.
1700	SPV.0105 Special 65. Install St Furn Traf Sig Mount Hard (Ornamental) STH 25 & Cedar Falls Rd	LS	LUMP SUM	_____.
1710	SPV.0105 Special 66. Removing Old Sign Bridge Single Pole S-18-057	LS	LUMP SUM	_____.



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Section: 0001

Total: _____.

Total Bid: _____.

PLEASE ATTACH SCHEDULE OF ITEMS HERE