

# HIGHWAY WORK PROPOSAL

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

Proposal Number:

Ø 2

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
LaCrosse	1071-06-82	WISC 2016 463	La Crosse - Galesville Livingston ST to West George ST	USH 53
La Crosse	1071-06-83	WISC 2016 464	USH 53/35 - Theater RD West George ST to BN RR Bridge	USH 53
La Crosse	1071-06-89		USH 53/35 - Theater RD West George ST to BN RR Bridge	USH 53
La Crosse	7190-03-72	WISC 2016 471	La Crosse - Trempealeau BN RR Bridge to 2 <sup>ND</sup> Ave SW	STH 35

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, \$ 440,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: December 13, 2016 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code
Contract Completion Time May 24, 2018	<b>SAMPLE</b> <b>NOT FOR BIDDING PURPOSES</b>
Assigned Disadvantaged Business Enterprise Goal 5%	This contract is subject to federal oversight.

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 Removals, excavation common, base aggregate, concrete pavement, HMA pavement, concrete curb and gutter, concrete sidewalk, storm sewer, erosion control, traffic control, pavement marking, permanent signing, lighting, traffic signals, sanitary sewer, water main, Structures B-32-67, S-32-50, S-32-51, S-32-52, S-32-53, S-32-54, S-32-55, S-32-56, S-32-65, S-32-66, S-32-68.	Notice of Award Dated	Date Guaranty Returned
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**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](http://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 Express<sup>TM</sup> web site.
  2. Use Expedite<sup>TM</sup> software to enter a unit price for every item in the schedule of items.
  3. Submit the bid according to the requirements of Expedite<sup>TM</sup> software and the Bid Express<sup>TM</sup> 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 Express<sup>TM</sup> 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 Expedite<sup>TM</sup> 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 Express<sup>TM</sup> web site to assure that the schedule of items is prepared properly.

- (2) Staple an 8 1/2 by 11 inch printout of the Expedite<sup>TM</sup> 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 Expedite<sup>TM</sup> 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 Expedite<sup>TM</sup> 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 Expedite<sup>TM</sup> generated schedule of items is not the same on each page.
  2. The check code printed on the printout of the Expedite<sup>TM</sup> 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.

## Special Provisions

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## **SPECIAL PROVISIONS**

### **1. General.**

Perform the work under this construction contract for Projects:

**1071-06-82**

USH 53, La Crosse-Galesville, Livingston ST to West George ST.

**1071-06-83**

USH 53, USH 53/35-Theater RD, West George ST to BN RR Bridge.

**1071-06-89**

USH 53, USH 53/35-Theater RD, West George ST to BN RR Bridge.

**7190-03-72**

STH 35, La Crosse-Trempealeau, BN RR Bridge to 2<sup>ND</sup> AVE SW

All located in La Crosse 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 (20160607)

### **2. Scope of Work.**

**Project 1071-06-82**

The work under this contract will consist of grading, base aggregate dense, concrete pavement, HMA pavement, permanent signing, erosion control, storm sewer, traffic control, pavement marking, fencing, restoration, Structures S-32-50/52/66/68 and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

**Project 1071-06-83**

The work under this contract will consist of grading, base aggregate dense, concrete pavement, HMA pavement, permanent signing, erosion control, storm sewer, traffic control, pavement marking, fencing, restoration, Structures S-32-51/53/54/55/56/65 and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

**Project 1071-06-89**

The work under this contract will consist of sanitary sewer and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

**Project 7190-03-72**

The work under this contract will consist of grading, base aggregate dense, concrete pavement, permanent signing, erosion control, storm sewer, traffic control, pavement marking, fencing, restoration, Structures B-32-67, 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.

The contract time for completion is based on an expedited work schedule and may require extraordinary forces and equipment.

**Definitions**

A weekday is a calendar day from Monday 12:00 AM to Friday 12:00 PM.

A weekend day is a calendar day from Friday 12:00 PM to Monday 12:00 AM.

Peak and Off-Peak Hours are defined as follows:

**IH 90 between STH 35 and STH 157**

Peak Hours on westbound lanes are from:

- Monday through Thursday – 2:00 PM to 6:00 PM
- Friday 12:00 PM to Friday 7:00 PM
- Sunday 12:00 PM to Sunday 5:00 PM
- Off-Peak Hours are all other times

Peak Hours on eastbound lanes are from:

- Monday through Thursday – 2:00 PM to 6:00 PM
- Friday 12:00 PM to Friday 7:00 PM

- Sunday 12:00 PM to Sunday 5:00 PM
- Off-Peak Hours are all other times

#### **IH 90: All other locations**

Off-Peak Hours at all times.

#### **Rose Street**

Peak Hours on northbound lanes from Livingston Street to eastbound IH-90 ramp Terminal are from:

- Monday through Friday – 5:00 AM to 9:00 AM
- Monday through Friday 2:00 PM to 7:00 PM
- Saturday and Sunday 5:00 AM to 7:00 PM
- Off-Peak Hours are all other times.

Peak hours on northbound lanes from e IH-90 Ramp Terminal to Oak Forest Drive are:

- Off-Peak Hours at all times.

Peak Hours on southbound lanes from Livingston Street to westbound IH-90 Ramp Terminal are from:

- Monday through Friday – 5:00 AM to 8:00 PM
- Saturday and Sunday 5:00 AM to 8:00 PM
- Off-Peak Hours are all other times.

Peak hours on southbound lanes from westbound IH-90 Ramp Terminal to Oak Forest Drive are:

- Off-Peak Hours at all times.

At the beginning of Stage 1C operations, close Rose Street to through traffic starting 10:00 PM on a Friday night until 4:00 AM the following Monday morning (54 hours maximum closure). Do not reopen until completing the following work:

Structure removal over Rose Street southbound lanes, grading, base aggregate, temporary HMA, signing and marking.

If the contractor fails to complete the work necessary to reopen Rose Street to traffic prior to 4:00 AM Monday morning, the department will assess the contractor \$1250 in interim liquidated damages for each 15 minutes that the roadway remains closed. An entire 15 minutes will be charged for any period of time within 15 minutes that the road remains closed beyond 4:01 AM. These damages will be assessed utilizing the administrative item Filing to Open Road to Traffic.

At the beginning of Stage 2A operations, close Rose Street ramp to IH-90 westbound (HX ramp) to through traffic for a maximum of 14 calendar days. Do not reopen until completing the following work: Concrete pavement, HMA pavement, base aggregate dense, signing and marking.

If the contractor fails to complete the work necessary to reopen Rose Street ramp to IH-90 westbound (HX ramp) to traffic within 14 calendar days, the department will assess the contractor \$2500 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 14 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

At the beginning of Stage 3A operations, place 3:1 fill slopes along temporary shoring as shown in the plan within seven calendar days.

If the contractor fails to complete the work necessary to complete the 3:1 fill slopes within seven calendar days, the department will assess the contractor \$2000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond seven calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

At the beginning of Stage 3A operations, close IH-90 eastbound ramp to Rose Street northbound (EW ramp) to through traffic for a maximum of 21 calendar days. Do not reopen until completing the following work: Concrete pavement, HMA pavement, base aggregate dense, signing and marking.

If the contractor fails to complete the work necessary to reopen IH-90 eastbound ramp to Rose Street northbound (EW ramp) to traffic within 21 calendar days, the department will assess the contractor \$2500 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 21 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Lane closures are only allowed during off-peak hours. Remove all lane closures prior to the start of peak hours. Do not open lane closure until requirements listed under the Traffic article of these special provisions are met.

At the beginning of STH 35 – Stage 2A operations, close George Street from W. George Street (STH 35) to Salem Road to through traffic for a maximum of 21 calendar days. Do not reopen until completing the following work: Concrete pavement, curb and gutter, base aggregate dense.

If the contractor fails to complete the work necessary to reopen George Street from W. George Street (STH 35) to Salem Road to traffic within 21 calendar days, the department will assess the contractor \$2500 in interim liquidated damages for calendar day the contract work remains incomplete beyond 21 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Complete all construction operations with the exception of the polymer overlay and landscaping items prior to 12:01 AM November 17, 2017. Remove all temporary traffic control devices and open traffic up to final configuration prior to November 17, 2017.

If the contractor fails to complete the work necessary to complete all construction operations with the exception of the polymer overlay and landscaping items prior to 12:01 AM November 17, 2017, the department will assess the contractor \$2500 in interim liquidated damages for each calendar day the contract work remains incomplete beyond November 17, 2017.

The department will not grant time extensions to the interim completion dates specified above for the following:

1. Severe weather as specified in standard spec 108.10.2.2.
2. Labor disputes that are not industry wide.
3. Delays in material deliveries.

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.

See the Removing Buildings section of this document for work restrictions and scheduling of removals on the given parcels.

### **Schedule of Operations**

The department anticipates that the schedule for each stage will be as follows below, unless modifications are approved in writing by the engineer.

### **Project 1071-06-82**

#### Stage 1A

Construct the temporary widening along southbound Rose Street along the outside lanes. Construct the temporary pavement along George Street. Begin construction on Access Road.

#### Stage 1B (Rose Street)

Construct the temporary widening within the median of Rose Street.

#### Stage 1B (STH 35)

Construct southbound lanes and southbound left turn lane at George Street for West George Street (STH 35), do not construct median curb and gutter. Construct southbound lanes and temporary pavement for George Street (STH 35), George Street Salem Road to Access Road, and continue construction of Access Road. Remove buildings called for removal on the plans.

#### Stage 1C (STH 35)



Construct center lanes of George Street (STH 35) at Cunningham Street, Construct George Street (STH 35) median temporary widening at Campbell Street, and complete Access Road.

Stage 1D (STH 35)

Construct median and northbound left turn lane of West George Street, and center lanes through the West George/George Street intersection.

Stage 1C/2A (Rose Street)

Begin construction of Rose Street northbound lanes and construct Moore Street.

Stage 2A (STH 35)

Construct George Street from West George Street (STH 35) to Salem Road.

Stage 2B

Complete the construction of Rose Street northbound lanes. Construct the northbound lanes of West George Street/STH 35. Construct Palace Street.

Stage 2C

Construct pavement in the Rose Street/W. George Street intersection. Complete George Street (STH 35) southbound at Cunningham Street, and median and northbound left turn lane at Campbell/George Street.

Stage 3

Construct Rose Street southbound lanes.

Stage 4

Remove crossover and construct the Rose Street median at Livingston Street. Remove temporary pavement and complete the right turn island at the Rose Street/Palace Street intersection. Remove temporary pavement and complete outside roadway of northbound Rose Street north of West George Street/STH 35. Remove temporary pavement from Stage 2 ramp crossover and complete the Rose Street median curb and gutter Station 93+75 RN to Station 96+25 RN.

**Project 1071-06-83 and 7190-03-72**

Stage 1A

Construct the temporary widening along southbound Rose Street along the outside lanes. Construct the temporary EW ramps. Begin construction of the temporary FY, GY, and HX Ramps. Construct the temporary widening along George Street.

Stage 1B

Construct the temporary widening within the median of Rose Street. Complete construction of the FY, GY, and HX ramps. Construct the temporary RW crossover. Construct temporary widening in median of George Street.

#### Stage 1C

Remove existing Structure B-32-038. Construct temporary widening along Rose Street southbound lanes. Remove Sign Bridge S-32-18. Place final Type I signs on IH 90 for Stage 2A traffic layout. Begin to grade and place beam guard and concrete barrier along IH 90 westbound lanes. Begin to remove the existing loop ramp for IH 90 eastbound.

#### Stage 2A

Begin construction of new Rose Street northbound lanes gapping at the FY and GY ramps. Start construction of the B-32- 67 structure. Begin construction of the F and G ramps. Construct the temporary GZ ramp. Continue work along IH 90 westbound lanes. Begin to remove the existing loop ramp for IH 90 eastbound. Construct a portion of the H ramp.

#### Stage 2B

Complete the Rose Street northbound lanes and the F, G, and FA ramps. Complete construction of the B-32-67 structure. Construct the temporary RY crossover. Complete work along IH 90 westbound lanes. Complete work removing the existing loop ramp for IH 90 eastbound.

#### Stage 3A

Begin construction of the new Rose Street southbound lanes gapping at the HX ramp and George Street. Construct the E ramp and complete the H ramp. Construct the westbound lane of George Street. Remove the RW crossover. Begin construction of George Street. Complete the construction of a 3:1 maximum slope from the top of the temporary shoring to existing ground within 7 calendar days after traffic switch from Stage 2B to Stage 3A layout is completed.

#### Stage 3B

Complete the construction of Rose Street northbound lanes. Complete George Street pavement. Complete removal existing ramps and temporary ramps. Construct the eagle viewing area.

#### Stage 4

Complete the median of Rose Street.

#### Stage 5A

Remove widening along Rose Street northbound and complete curb and gutter.

#### Stage 5B

Remove widening along the F ramp and complete curb and gutter. Complete the G ramp island.

### **2018**

Complete polymer overlay on Structures B-32-224 and B-32-67. Complete landscaping items.

**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 have been identified within 150 feet of the project limits. 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).

To avoid adverse impacts upon the NLEBs, no Clearing is allowed between June 1 and July 31, both dates inclusive.

If the required Clearing is not completed by May 31, the department will suspend all clearing and associated work directly impacted by Clearing. The department will issue a notice to proceed with Clearing and associated work directly impacted by clearing after consulting with the United States Fish and Wildlife Service (USFWS).

Submit a schedule and description of Clearing operations with the ECIP 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of Clearing operations, and list those additional measures in the ECIP.

**Fish Spawning**

There will be no instream disturbance of Black River as a result of construction activity under or for this contract, prior to June 15 or after September 1, in order to avoid adverse impacts upon the spawning of fish.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR.

**Migratory Birds**

Swallow and other migratory birds' nests have been observed on or under the existing bridge. All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act.

The nesting season for swallows and other birds is usually between May 1 and August 30. Either prevent active nests from becoming established, or apply for a depredation permit from the US Fish and Wildlife Service for work that may disturb or destroy active nests. The need for a permit may be avoided by removing the existing bridge structure prior to nest occupation by birds, or clearing nests from all structures before the nests become active in early spring. As a last resort, prevent birds from nesting by installing a suitable netting device on the remaining structure prior to nesting activity. Include the cost for preventing nesting in the cost of Removing Old Structure, Station 122+00 RN.

#### **4. Lane Rental Fee Assessment.**

##### **A General**

The contract designates some lane closures to perform the work. The contractor will not incur a Lane Rental Fee Assessment for closing lanes during the allowable lane closure times. The contractor will incur a Lane Rental Fee Assessment for each lane closure outside of the allowable lane closure times. If a lane is obstructed at any time due to contractor operations, it is considered a closure. The purpose of lane rental is to enforce compliance of lane restrictions and discourage unnecessary closures.

The allowable lane closure times are shown in the Prosecution and Progress article.

Submit the dates of the proposed lane, ramp, and roadway restrictions to the engineer as part of the progress schedule.

##### **B Lane Rental Fee Assessment**

The Lane Rental Fee Assessment incurred for each lane closure, each ramp closure, and each full closure of a roadway, per direction of travel, is as follows:

- \$2500 per lane, per direction of travel, per hour broken into 15 minute increments

The Lane Rental Fee Assessment represents a portion of the cost of the interference and inconvenience to the road users for each closure. All lane, roadway, or ramp closure event increments 15 minutes and less will be assessed as a 15-minute increment.

The engineer, or designated representative, will be the sole authority in determining time period length for the Lane Rental Fee Assessment.

Lane Rental Fee Assessments will not be assessed for closures due to crashes, accidents or emergencies not initiated by the contractor.

The department will assess Lane Rental Fee Assessment by the dollar under the administrative item Failing to Open Road to Traffic. The total dollar amount of Lane Rental Fee Assessment will be computed by multiplying the Lane Rental Assessment Rate by the number of 15-minute increments of each lane closure event as described above.

Lane Rental Fee Assessment will be in effect from the time of the Notice to Proceed until the department issues final acceptance. If interim completion time or contract time expires prior to the completion of specified work in the contract, additional liquidated damages will be assessed according to standard spec 108.11 or as specified within this contract.

## **5. Prosecution and Progress for Water Distribution System, And Sanitary Sewer System.**

The City of La Crosse will provide assistance with the inspection and coordination of all utility construction including water main and sanitary sewer construction contained in this contract.

### **General**

Prior to any utility service shut-off, or disruption, the contractor shall contact each business and notify them of the work and to determine if a temporary water service is necessary. Initial contact will be made 5 working days prior to shut-off.

If water service to a user must be maintained, a temporary water service shall be installed by the contractor, and maintained until permanent water service is restored. All work associated with setting, maintaining and removing a temporary water service shall be the responsibility of the contractor.

If the sanitary sewer service must be maintained, the contractor shall pump the sanitary waste water and transport it to the City of La Crosse Waste Water Treatment plant for disposal.

Sanitary sewer service pipes and water lateral pipes shall be connected to the new sanitary sewer main and water main where they are cross the mains.

All work shall conform to the City of La Crosse Standard Specifications for Water Main Construction and Sewer Construction.

All sanitary sewer and accessories, all water main, valves, fittings, services, hydrants and accessories, will be installed according to the manufacturer's recommendation and these specifications.

All materials shall meet current ASTM standards.

All excavation and backfilling shall be performed according to standard spec 205 and conform to the latest edition for standard specifications for Sewer and Water Construction in Wisconsin.

The contractor shall maintain a working as-built plan during construction. The as-built plans shall be forwarded to the engineer at the completion of construction.

The contractor shall notify each user when water service will be shut off and restored.

The contractor shall work with the water utility staff to locate and operate all valves. The contractor shall work with the sewer utility staff.

**Sequence of Work**

Sanitary sewer and water service shall be maintained to all users except when switching the service from existing main to a new main.

The contractor shall allow time to develop a sequence of work with the City of La Crosse sewer utility and water utility staff. The sequence of work must be reviewed by the WisDOT engineer for compliance with the project specifications.

Upon approval of the WisDOT engineer, the contractor shall execute the sequence without modifications. Any modifications to the sequence must be approved by the City of La Crosse water utility and the WisDOT engineer.

**Sanitary Sewer**

Sanitary sewer shall be installed in the road right-of-way as shown on the plans. Installation shall be coordinated with the water main construction.

**Scope of Services provided by the City of La Crosse**

The City of La Crosse sewer utility will locate existing sewers services.

The City of La Crosse Engineering Department will review all material submitted for approval and use in the construction of the sanitary sewer.

**Project Review**

Prior to commencement of work on the sanitary sewers, an on-site meeting will be held in order to discuss proposed operations and requirements. A representative of the City of La Crosse sewer utility, City of Onalaska sewer utility, City of La Crosse Project Engineer, engineer and sewer contractor foreman shall be present to discuss the project.

**Water Main**

Ground water and/or soils near the intersection of George Street and West George Street and West George Street and USH 53 may be contaminated with hydrocarbon based compounds. If hydrocarbon compounds are observed in the ground water or soils, the water main and fire hydrant leads shall be installed using Nitrile hydrocarbon resistant gaskets. The joints with Nitrile gaskets shall be noted by the contractor on the as-built plan set.

Fire hydrants installed in an area with contaminated ground water and soils shall have the drain ports permanently plugged. Fire hydrants with drain ports plugged shall be noted by the contractor on the as-built plan set.

**Water Main and Accessories**

The proposed water main and accessories will be located in the road right-of-way as shown on the plans. Before any new work is backfilled, the contractor shall have the work inspected and approved.

**Scope of Services provided by the City of La Crosse**

The City of La Crosse water utility will locate existing water mains, valves and services.

The City of La Crosse Engineering Department will review all material submitted for approval and use in the construction of the water main.

### **Project Review**

Prior to commencement of work on the water mains, an on-site meeting will be held in order to discuss proposed operations and requirements. The City of La Crosse water utility representative, engineer, and water main contractor foreman will be present to discuss the following items:

- Conditions affecting this section of the work.
- Accessibility to site and to residences/businesses.
- Proposed locations of water services, hydrants and valves.
- Existing underground and overhead utilities.
- Connections: The contractor shall perform all connections to existing water mains and services after noting conditions in the work area. Prior to any work at any connection location, a City of La Crosse representative must review the conditions of the existing water distribution system. Any cost caused by defective or ill-timed work will be the responsibility of the contractor. All excavations for mains, valves and/or services shall be back filled and compacted to the standard specifications.
- Deviations from Plans: The engineer reserves the right to make minor deviations in the position of and number of items from those shown on the plans. The contractor shall make such changes at no additional charge. Changes in number of items will be paid at the unit price bid. All relocations and/or corrections must be acceptable to the engineer.

### **Contractor Submittals**

Prior to the installation of any water main and related items, the contractor shall submit shop drawings, copies of manufacture's drawings and/or brochure to the engineer for review. All shop drawings shall bear the contractor's stamp indicating approval. The following items shall be submitted:

1. Ductile Iron Pipe Push-On Joint and gaskets
2. Water Service Lateral Pipe
3. Ductile Iron Mechanical Joint Fittings
4. Resilient Wedge Valves
5. Poly Wrap
6. Hydrants
7. Service Stop
8. Corporation Stop

### **Execution of Water Main Installation**

Water service work shall be coordinated with other work/construction stages outlined in the plans and contract documents. Limits of water service work must be approved by the engineer. Progress shall be continuous. The new water main shall be tested, disinfected and ready for service before water services are connected.

The contractor shall adhere to the following when installing all items associated with the water main:

### **Erosion Control**

The contractor shall install all erosion control measures as directed by the engineer and as shown on the plans.

### **Hydrants**

The contractor shall notify the City of La Crosse Fire Department and the City Engineering Department when hydrants are to be removed from and/or placed in to service, and when the water main serving a hydrant is shut down. The contractor shall give all parties 48 hours' notice prior to shutting down any water main.

### **Depth of Cover/Separation Distance**

Water main shall be installed with a minimum of 7 feet of cover from the proposed street grade. If installing water main with 7 feet of cover causes a conflict with sanitary service laterals, storm inlet leads, or storm sewer, the water main elevation shall be adjusted to avoid the conflict. A minimum vertical separation between water main and sanitary or storm lateral, or storm sewers of 18 inches shall be maintained. If the water main has a depth of cover of 6 feet or less, the contractor shall install polystyrene board insulation as directed by the engineer. Horizontal separation between water main and sanitary/storm/storm lateral shall be a minimum of 8 feet center of pipe to center of pipe.

### **Cutting Sanitary Laterals**

If the contractor elects to cut and/or remove a sanitary lateral to install water main, the sanitary lateral shall be replaced in kind and noted on the contractor's as-built plan set. The cost to cut and restore existing sanitary leads will be incidental to the cost of installing water main.

### **Insulation**

Insulation shall be installed when directed by the engineer. Insulation sheets shall be centered on the water main or service lateral. A minimum of one-half sheet of insulation shall be installed at any location. Bedding and cover for the insulation shall be fine grained granular material that is free from lumps, clods or stones. Bedding shall be graded so the insulation is fully supported so not to deflect, crack or puncture.

### **Disinfecting Water Main**

Upon completion of a new water main, the contractor shall furnish all equipment, labor and materials necessary to install the disinfectant chemical in the new water main. The contractor shall notify the water utility and engineer before filling the water main and bringing it to system pressure.



**Testing**

Upon completing the disinfection period, the contractor shall furnish all equipment to test the new water main according to the City of La Crosse Standard Specifications for Water Main Construction, latest edition. All pressure gages shall be new. The contractor shall notify the engineer 24 hours prior to performing any quality control tests.

**Flushing Water Main**

Upon successful pressure and continuity testing, the contractor shall furnish all equipment, labor and materials necessary to flush the disinfectant chemical from the new water main into the sanitary sewer. The contractor shall notify the wastewater utility before flushing begins. The wastewater utility will determine the volume of flushing water that will be allowed to prevent flooding the sanitary sewer. The contractor shall limit the volume of flushing water discharged to that volume determined by the wastewater utility. The contractor shall be responsible for any damage to public or private property associated with flushing of water main, including basement flooding.

**Placing New Water Main into Service**

Upon successful completion of all quality testing, the contractor shall inform the engineer, the water utility and the Fire Department that the water main will be placed into service. After notification has been made, fire hydrants and water services shall be installed and placed into service.

**Water Laterals**

Water service laterals shall be connected to the new water main as directed by the engineer and the owner. The engineer shall set the final location of the lateral, and curb stops at the time of construction. Polystyrene insulation shall be installed if directed by the engineer.

**Abandoned Water Lateral**

Water services lateral pipe that is abandoned shall be left in-place and noted on the as-built plan.

Abandoning water laterals will be considered incidental to installation of new water services.

**6. On-Site Wetland Mitigation Commitments.**

The topsoil salvaged for the on-site mitigation site shall be kept moist by a method approved by the engineer.

The salvaged topsoil shall be contained within silt fence to prevent erosion.

The contractor shall use certified weed free mulch at the on-site mitigation area.

After the salvaged topsoil is spread onto the mitigation site, the topsoil shall be kept moist for a period of at least two weeks. The method for keeping the topsoil moist must be approved by the engineer.

## **7. Traffic.**

### **A Description**

#### **General**

The construction sequence, including the associated traffic control, shall be substantially accomplished as detailed in the Traffic Control Plans, and as described herein.

Each traffic stage is described here and shown in the plans for all projects. Submit to the engineer for approval a detailed traffic control plan if different than the traffic control plan provided in the plan set. Submit the plan prior to making any traffic switch.

Maintain traffic with a minimum of 11 foot travel lanes at all times on all roadways unless otherwise noted within this article, or in the plans.

The single lane remaining open to traffic during lane closure on IH 90 shall have a minimum clear width of 16 feet (including shoulders) from face of temporary barrier, beam guard, and/or traffic drums unless otherwise noted within this article, or in the plans.

Do not store equipment, vehicles, or materials on adjacent streets beyond the project limits without specific approval of the engineer.

Where lane closure(s) has been permitted by the engineer in conjunction with the contractor's work schedule, make a continuous effort to complete the work with said lane closure(s) in a timely manner.

Comply with all local ordinances that apply to work operations, including those pertaining to working during nighttime hours. Furnish any ordinance variance issued by the municipality or required permits to the engineer, by the contractor, in writing three working days before performing such work.

Conduct operations in a manner that will cause the least interference to traffic, pedestrian movements, commercial access, and residential access adjacent to and within the construction area. This includes the following restrictions:

- No vehicle or piece of equipment will be permitted to enter a live traffic roadway against the direction of normal traffic flow, even if the roadway has been declared part of a haul road.
- Do not disturb, remove or obliterate any traffic control signs, advisory signs, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer. Any damage done to the above during construction operations will be repaired or replaced at the contractor's expense.
- Access live traffic lanes only at the ends of the work zone. Temporary access points within the work zone may be allowed at different locations if the engineer approves

the location, configuration, and traffic control devices as proposed by the contractor. Do not cut in between traffic control devices to enter traffic lanes.

- A drop-off less than 2 inches and 4:1 slopes or flatter are required at the pavement edge for any travel lane prior to the completion of work each calendar day during construction activities, including shoulder removal and reconstruction. Base aggregate material is provided to construct permanent shoulders. Labor and materials necessary to maintain a drop-off less than 2 inches and 4:1 slopes or flatter, as specified under standard spec 305.3.3.3, that are not part of the permanent construction are not included and are incidental to the work.
- Do not park or store equipment, vehicles or construction materials within 30 feet of the edge of the traffic lanes carrying IH 90 traffic during non-working hours unless properly protected as described in the standard specification and supplemental with the traffic control section of these special provisions.
- Do not park or store equipment, vehicles or construction materials within 20 feet of the edge of the traffic lanes carrying local road or ramp traffic during non-working hours unless properly protected as described in the standard specification and supplemental with the traffic control section of these special provisions.
- All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic. Unsafe actions will result in an individual's removal from the project unless approved to resume project activities by the engineer.
- Equip all construction vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing amber signal) of 8-inch minimum diameter. Activate the beam when merging into or exiting a live traffic lane.
- Notify the Wisconsin State Patrol, La Crosse County Sheriff's Department, local law enforcement, and other emergency services a minimum of two weeks prior to any full roadway or ramp closures, lane closures on IH 90, USH 53, or STH 35 that will be in effect through the peak hour and rolling stops.
- Do not use maintenance crossovers to make U-turns. Do not use existing median crossovers outside the project limits for storage or hauling purposes.
- Lane closures will only be allowed when there is pertinent work being done on roadway and structures. Remove all barricades, signs, drums, lights, and other devices which might impede the free flow of traffic and store them beyond the shoulder when no work on the roadway or structures is taking place.
- Have available at all times, sufficient experienced personnel to promptly install, remove, and reinstall the required traffic control devices to route traffic according to the plans, these special provisions, and as directed by the engineer.

- Interstate access control will remain intact during construction.
- A 3-mile minimum gap between lane and shoulder closures is required on IH 90. This includes lane and shoulder closures for other projects.

Traffic control stage changes will only be allowed during off peak hours. The engineer can limit the hours further in order to protect the safety of the traveling public.

Coordinate traffic requirements under this project with other adjacent and concurrent department or local municipality projects. Contractor is responsible for implementing and coordinating with other contractors all traffic control as shown on the plans. Modifications to the traffic control plan may be required by the engineer to maintain safety and to be consistent with adjacent work by others.

Post all entrance and exit ramps seven business days in advance of their closure with dates and time of closure.

Place a portable changeable message sign before the previous open entrance or exit ramp to advise traffic about the closure of the specific entrance or exit ramp.

Submit to the engineer for approval a detailed traffic control plan if different than the traffic control plan provided in the plan set. Submit the plan ten days prior to the preconstruction conference.

Maintain emergency and local vehicular access at all times to all driveways within the project limits unless otherwise noted below. Notify the property occupants five days in advance of the driveway reconstruction to verify closure or staged driveway construction methods. Construct driveway approaches to commercial business in stages or provide temporary access such that access to commercial property is provided at all times during the life of the project. Temporary access may be constructed with base course at the contract unit price for Base Aggregate Dense 1¼-Inch. Maintain at least one access to businesses at all times.

### **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 $\leq 16'$ )	MINIMUM NOTIFICATION
Lane and shoulder closures	14 calendar days
Full roadway closures	14 calendar days
System and service ramp closures	14 calendar days

Full system and service ramp closures	14 calendar days
Detours	14 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction >16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
System and service 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.  
108-057 (20150630)

### **Protection of Bridge Pier Columns and Parapets**

Bridge pier columns and parapets are to remain protected at all times throughout construction. Remove existing guardrail concurrently with the placement of the temporary concrete barrier so that the bridge pier columns remain protected at all times. Placement of new beamguard shall be completed to a point to provide protection of the pier columns or parapets before the temporary concrete barrier is removed. Place remaining beamguard within 24 hours of the temporary concrete barrier being removed.

### **Rolling Stops**

Rolling stops involve slowing or stopping traffic for a brief period, and then allowing it to proceed. Rolling stops shall be in increments of no more than 15 minutes in duration and they may only be performed by freeway law enforcement. Have all necessary flag persons and advance signing on site prior to, and during, the period when the rolling stop is in operation. Arrange for rolling stops at least ten calendar days in advance by contacting the engineer, who will assist in making the necessary arrangements with the Wisconsin State Patrol. Rolling stops will be limited to occur completely between 12:00 AM and 4:00 AM Monday through Thursday.

### **Traffic Staging**

#### **Project 1071-06-82:**

##### Stage 1A

During off peak hours close the outside lane of Rose Street. During peak hours maintain two lanes of traffic in each direction on Rose Street. Shoulder closures along Rose Street are allowed during peak hours. Maintain one lane in each direction of W. George Street/STH 35.

#### Stage 1B (Rose Street)

During off peak hours close the median lane of Rose Street. During peak hours maintain two lanes of traffic in each direction on Rose Street. Shoulder closures along Rose Street are allowed during peak hours.

#### Stage 1B (STH 35)

Maintain one lane in each direction of W. George Street/STH 35 on existing pavement. Maintain driveway access Station 155+00 WG; LT. George Street closed to through traffic between Station 13+00 GS and Access Road. Maintain access to driveway Station 13+50 GS, LT.

#### Stage 1C (STH 35)

Maintain one lane in each direction of W. George Street/STH 35, southbound on new pavement and northbound on existing pavement. George Street is open.

#### Stage 1D (STH 35)

Maintain one lane in each direction of W. George Street/STH 35, southbound on new pavement and northbound on existing pavement. George Street is open. Maintain Southbound W. George Street/STH 35 access to driveway Station 153+80 WG, RT. Access Road is open.

#### Stage 1C/2A (Rose Street)

Rose Street traffic one lane in each direction on existing Rose Street southbound lanes and temporary widening from Livingston Street to West George Street. Southbound Rose Street traffic two lanes on existing Rose Street southbound lanes and temporary widening from West George Street to the project limits. Northbound Rose Street traffic one lane during Stage 1C and two lanes during Stage 2A on existing Rose Street southbound lanes and temporary widening from West George Street to the project limits. Moore Street is closed at Rose Street. Palace Street is open with access to Rose Street.

#### Stage 2A (STH 35)

Begin after Stage 1D – STH 35 is complete, independent of Rose Street staging. Coordinate traffic at the W. George Street/Rose Street intersection with appropriate stage.

Maintain one lane in each direction of W. George Street/STH 35 on existing, temporary, and new pavement. George Street closed to through traffic between West George Street and Salem Road for maximum 21 days. Closure is for consecutive days and must be open to traffic at the end of the 21 day period. Access Road and Salem Road at George Street are open to traffic.

#### Stage 2B

Rose Street traffic one lane in each direction on existing Rose Street southbound lanes and temporary widening from Livingston Street to West George Street. Rose Street traffic two lanes in each direction on existing Rose Street southbound lanes and temporary widening from West George Street to the project limits. Moore Street open with access to Rose

Street. Palace Street remains open until West George Street/STH 35 is complete and open to traffic.

#### Stage 2B (STH 35)

Begin after Stage 2A – STH 35 is complete, independent of Rose Street staging. Maintain one lane in each direction on West George Street/STH 35 on new pavement. George Street open with access to West George Street/STH 35. Access Road open to traffic.

#### Stage 2C

Northbound Rose Street traffic transitions to Stage 3 location and southbound Rose Street traffic remains during this intermediate stage to complete the Rose/W. George Street intersection.

#### Stage 2C (STH 35)

Begin after Stage 2B – STH 35 is complete, independent of Rose Street staging. Maintain one lane in each direction on West George Street/STH 35 on new pavement. George Street open with access to West George Street/STH 35. Access Road open to traffic.

#### Stage 3

Rose Street traffic one lane in each direction on new Rose Street northbound lanes from Livingston Street to West George Street. Rose Street traffic two lanes in each direction on new Rose Street northbound lanes and temporary widening from West George Street to the project limits. Moore Street and Palace Street open with access to Rose Street. West George Street/STH 35, George Street, and Access Road open.

#### Stage 4

During off peak hours close one lane of Rose Street adjacent to construction operations. During peak hours maintain two lanes of traffic northbound on new northbound Rose Street pavement. Maintain two lanes of traffic southbound on new southbound Rose Street pavement north of Palace Street, one lane southbound from Palace Street to Livingston Street.

### **Project 1071-06-83/7190-03-72:**

#### Stage 1A

During off peak hours close the outside lane of Rose Street. During peak hours maintain two lanes of traffic in each direction on Rose Street. Shoulder closures along Rose Street are allowed during peak hours. Keep all ramps open to traffic.

#### Stage 1B

During off peak hours close the median lane of Rose Street. During peak hours maintain two lanes of traffic in each direction on Rose Street. Shoulder closures along Rose Street are allowed during peak hours. Close the IH 90 westbound to Rose Street northbound ramp and detour traffic through the CTH B interchange. Close the Rose Street southbound to IH 90 eastbound ramp connection and detour traffic through the CTH B interchange. Keep all other ramps open to traffic. Flagging of eastbound George Street is allowed.

#### Stage 1C

Starting at 10:00 PM on a Friday night close Rose Street between the IH 90 eastbound and IH 90 westbound ramp terminals. Open Rose Street to Stage 2A traffic layout prior to 4:00 AM the following Monday morning (54 hours maximum closure). Detour Rose Street traffic through the CTH B and STH 157 interchanges. Open the GY, FY, HX, and EW ramps to traffic. Switch Rose Street traffic to be bidirectional on existing Rose Street southbound lanes and widening using the RW crossover. Close outside shoulder on IH 90 westbound lanes and IH 90 eastbound lanes when working in the area.

Stage 1C closure is not allowed during Holiday weekends as listed in the Holiday Work Restrictions of these special provisions.

#### Stage 2A

Keep Rose Street traffic bidirectional on existing Rose Street southbound lanes and temporary widening from the beginning of the project to the BNSF railroad. Rose Street northbound lanes continue to use the RW crossover. Keep the GY, FY, and EW ramps open to traffic. Close the HX ramp. Close outside shoulder on IH 90 westbound lanes and IH 90 eastbound lanes when working in the area.

#### Stage 2B

Keep Rose Street traffic bidirectional on existing Rose Street southbound lanes and temporary widening from the beginning of the project to the BNSF railroad. Rose Street northbound lanes continue to use the RW crossover. Keep the EW, and HX ramps open to traffic. Switch traffic onto the temporary GZ and FX ramps. Detour the Rose Street southbound to IH 90 eastbound traffic movement through the CTH B interchange. Close outside shoulder on IH 90 westbound lanes and IH 90 eastbound lanes when working in the area.

#### Stage 3A

Switch Rose Street traffic to be bidirectional on new Rose Street northbound lanes and temporary widening from the beginning of the project to the BNSF railroad. Rose Street southbound will use the RY crossover. Keep the HX ramp open to traffic. Switch ramp traffic onto the GY, F, and FA ramps. Close the IH 90 eastbound to Rose Street northbound traffic and detour through the STH 157 interchange. Switch George Street traffic onto the TG temporary widening.

#### Stage 3B

Keep Rose Street traffic bidirectional on new Rose Street northbound lanes and temporary widening. Open the E, G, and H ramp to traffic. Switch George Street onto the newly constructed lanes and UG widening. Close the inside left turn lane of the G ramp.

#### Stage 4

Switch Rose Street southbound traffic onto the newly constructed southbound lanes. Keep Rose Street northbound traffic on new northbound lanes and temporary widening. Keep all



ramps at Rose Street and IH 90 open to traffic. Keep the inside left turn lane of the G ramp closed.

#### Stage 5A

Keep Rose Street southbound traffic on the newly constructed southbound lanes. Switch Rose Street northbound traffic to the new northbound lanes. Close the Rose Street southbound to IH 90 eastbound ramp (FA ramp) and detour traffic through the CTH B interchange. Keep all other ramps at Rose Street and IH 90 open to traffic. Keep inside left turn lane of the G ramp closed.

#### Stage 5B

Keep Rose Street southbound traffic on the newly constructed southbound lanes. Keep Rose Street northbound traffic on the newly constructed northbound lanes. Keep all ramps at Rose Street and IH 90 open to traffic. Close the inside right turn lane onto the F ramp. During off-peak hours close the outside left turn lane of the G ramp.

### **2018**

Off-peak lane closures are allowed for placing polymer overlay and completing landscaping items.

## **8. Railroad Insurance and Coordination Burlington Northern Santa Fe Railway (BNSF).**

### **A Description**

Comply with standard spec 107.17 for all work affecting BNSF 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. Requirements of the standard specifications are changed as follows:<sup>1</sup>

Before the STATE issues its notice to proceed to the contractor or contractors (collectively, the CONTRACTOR) awarded the contract for construction involving the project described

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<sup>1</sup> As used in this section, "STATE" and "COMPANY" have the meanings assigned to them in the Stipulation to which this Exhibit is attached, "FELA" means the Federal Employment Liability Act, and "this Stipulation" means the Stipulation to which this Exhibit is attached.

in this Stipulation (the PROJECT), the STATE will require the CONTRACTOR to provide certain insurance coverage to protect the RAILROAD (as defined in this section) from loss for property and liability exposures relating to the construction activities on the PROJECT. The manner and process in which this will be accomplished is as detailed below.

TYPE OF INSURANCE	MINIMUM LIMITS REQUIRED <sup>2</sup>
1. Commercial general liability insurance; will be endorsed to include blanket contractual liability coverage; will cover bodily injury and property damage, personal and advertising injury, and fire legal liability. There will be no endorsements limiting coverage for the work to be performed pursuant to this Stipulation.	\$5,000,000 combined single limits per occurrence with an annual aggregate limit of not less than \$10,000,000.
2. Workers' compensation and employer's liability coverage.	Workers' compensation limits: statutory limits. Employers' liability limits: Bodily injury by accident \$500,000 each accident Bodily injury by disease \$500,000 each accident \$500,000 each employee
3. Commercial automobile liability insurance; will cover all owned, non-owned, and hired vehicles used by the CONTRACTOR in carrying out the contract, and will include coverage for bodily injury and property damage.	\$1,000,000 combined single limit per occurrence.
4. Railroad Protective Liability Insurance, issued on a standard	\$5,000,000 per occurrence \$10,000,000 in the aggregate

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<sup>2</sup> The CONTRACTOR may satisfy the requirements for insurance types 1, 2 and 3 through primary insurance coverage or through excess/umbrella policies.

TYPE OF INSURANCE	MINIMUM LIMITS REQUIRED <sup>2</sup>
ISO form 00 35 10 93 or its equivalent and endorsed to include the Pollution Exclusion Amendment (ISO form CG 28 31 10 93) and the Limited Seepage and Pollution Endorsement. No endorsements restricting FELA coverage may be added.	

1. The policies for insurance types 1, 2 and 3 must not contain an exclusion for punitive damages.
2. The commercial general liability policy will include an endorsement that removes any restrictions on coverage regarding work being performed within 50 feet of a railroad or railroad property and an endorsement that removes any exclusion related to explosion, collapse or underground hazard.
3. The CONTRACTOR must waive its right of recovery against the RAILROAD for all claims and suits against the RAILROAD. In addition, the CONTRACTOR's insurers, through the terms of the policy or policy endorsement, must waive their right of subrogation against the RAILROAD for all claims and suits. The certificates of insurance must reflect the waiver of subrogation endorsement. The CONTRACTOR also must waive its right of recovery, and its insurers must also waive their right of subrogation, against the RAILROAD for loss of the CONTRACTOR's owned or leased property or property under the CONTRACTOR's care, custody or control.
4. The CONTRACTOR's insurance policies, except for excess liability/umbrella policies, through policy endorsement, must include wording to the effect that such policies are primary and non-contributing with respect to any insurance carried by the RAILROAD. The certificates of insurance must reflect that such wording is included in the evidenced policies.
5. The policies for insurance types 1 and 3, above, must include a severability of interest endorsement and the RAILROAD must be named as an additional insured with respect to work performed under this Stipulation. Severability of interest and naming the RAILROAD as additional insured must be indicated on the certificates of insurance.
6. The CONTRACTOR will provide the original Railroad Protective Liability policy to the RAILROAD prior to performing any work on the PROJECT.

7. The CONTRACTOR will only obtain coverage from insurance companies licensed to do business in the State of Wisconsin that have an A.M. Best rating of A- and Class VII or better.
8. The CONTRACTOR is not allowed to self-insure.
9. Prior to performing any work on the PROJECT, the CONTRACTOR will provide the RAILROAD acceptable certificates of insurance, including original signatures of the authorized representatives evidencing the required coverages, endorsements, and amendments and referencing the RAILROAD's contract audit/folder number (if available), as evidence that required coverages for insurance types 1, 2 and 3 are in force.
10. The policies for insurance types 1, 2 and 3 must contain a provision that obligates the insurer to notify the RAILROAD at least 60 calendar days before a cancellation, non-renewal, substitution or material change in coverage, and such provision must be reflected on the insurance certificates.
11. The CONTRACTOR will send the required insurance documentation to the RAILROAD at the following address:

BNSF Railway Company, c/o Cert Focus  
P.O. Box 140528  
Kansas City, MO 64114  
Phone: (877) 576-2378, Fax: (817) 840-7487  
Email: [BNSF@certfocus.com](mailto:BNSF@certfocus.com)

12. Acceptance by the RAILROAD of a certificate of insurance that does not comply with this section will not operate as a waiver of the CONTRACTOR's obligation to provide the insurance required by this section.
13. If the RAILROAD notifies the STATE that the CONTRACTOR does not have the required insurance, the STATE's engineer will immediately suspend work on the PROJECT until the matter is resolved.
14. The requirements for insurance types 1, 2, and 3 will apply with equal force whether the CONTRACTOR or a subcontractor, or anyone directly or indirectly employed by either, performs work on the PROJECT. If any portion of the PROJECT work is subcontracted, the CONTRACTOR must require the subcontractor to provide and maintain insurance coverages for insurance types 1, 2, and 3 that meet the requirements of this section, except that the minimum limits required for the subcontractor's commercial general liability policy will be \$2,000,000 per occurrence and \$4,000,000 in the aggregate.

15. The fact that the CONTRACTOR obtains insurance as required by this section will not release or diminish the CONTRACTOR's liability. Damages recoverable by the RAILROAD will not be limited by the required insurance coverages.
16. Upon request from the RAILROAD, the CONTRACTOR will provide a certified duplicate original of any requested policy.
17. For purposes of this section references to the RAILROAD mean the COMPANY, Burlington Northern Santa Fe Corporation, and the subsidiaries, successors, assigns and affiliates of each.

Notify evidence of the required coverage, and duration to, BNSF Railroad Company, P.O. Box 12010 - BN, Hemet, CA 92546-8010, FAX (909) 766-2299.

Include the following information on the insurance document:

Project: 7190-03-72  
Route Name: STH 35  
Crossing ID: 079896A  
Railroad Subdivision: ST CROIX  
Railroad Milepost: 302.85

#### **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 Calvin Nutt, Manager of Public Projects, 80 44<sup>th</sup> Avenue NE, Minneapolis, MN 55421; TELEPHONE (763) 782-3495; FAX (763) 782-3061; email [Calvin.Nutt@BNSF.com](mailto:Calvin.Nutt@BNSF.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 will 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 43 through freight trains operate daily through the construction site. Through freight trains operate at up to 35 mph. There are switching movements.

#### **A.6 Temporary Clearances During Construction**

*Replace subparagraphs (3) 4.1 and (3) 4.2 of standard spec 107.17.1 with the following:*

Provide 15 feet 0 inches (4.572 m) plus 1.5 inches (38 mm) per degree of track curvature, measured horizontally from the track center line.

Provide 21 feet 6 inches (6.401 m) plus compensation for super-elevated track, measured vertically above the top of the highest rails.

If site conditions do not allow for the clearances shown above, encroachments may be granted. Allow an additional 30 days of review time for any encroachment on clearances as outlined above.

## **B Railroad Flagging**

Arrange with the railroad for the flagging of trains and safety of railroad operations if clearances specified in standard spec 107.17.1 are not maintained during construction operations. The following conditions may also warrant flagging:

1. Cranes swinging or handling materials or equipment within 25 feet of the centerline of any track.
2. Construction operations that are in proximity of power lines or railroad signal and communication lines, underground cables, fuel oil facilities or pipe lines and which might result in fire or damage to such facilities, danger to railroad operations or danger to the public in the transaction of business on railroad premises.
3. Excavation, tunneling, blasting, pile driving, placing, or removing cofferdams or sheeting, or similar activities might cause the railroad's tracks or buildings to be undermined, heaved out of normal level, shifted out of alignment, or otherwise impaired.
4. Bridge painting activities including rigging of falsework, scaffolding or similar activities within 25 feet of the centerline of any track.
5. Deck removal activities within 25 feet of the centerline of any track.
6. Pouring of bridge decks in spans over an operated track.
7. At any other time in railroad representative's judgment, the contractor's work or operations constitute an intrusion into the track zone and create an extraordinary hazard to railroad traffic, and at any other time when flagging protection is necessary for safety to comply with the operating rules of the railroad.

Projects with concurrent activity may require more than one flagger.

Projects with heavy contractor activity within 25 feet of the centerline of any track or unusual or heavy impact on railroad facilities will normally require a full-time flagger.

The department and railroad will monitor operations for compliance with the above flagging requirements. Violations may result in removal from railroad property until arrangements to adhere to the flagging requirements are satisfied. If the railroad imposes additional flagging requirements beyond the above flagging requirements due to the previous violations, the contractor will bear all costs of the additional flagging requirements.

## **C Flagging by Railroad– Railroad Does Not Pay Flagging Costs**

### **C.1 General**

*Replace paragraph (3) of standard spec 107.17.1 with the following:*

Comply with the railroad's rules and regulations regarding operations on railroad right-of-way. If the railroad's chief engineering officer requires, arrange with the railroad to obtain the services of qualified railroad employees to protect railroad traffic through the work area. Bear the cost of these services and make payment directly to the railroad. Notify the appropriate railroad representative as listed in section A.3 above, in writing, at least 10 business days before starting work near a track. Provide the specific time planned to start the operations.

Extended Duration Work or Longer Work Day (to be used when requiring a flagger for longer periods of time, 4-weeks or more, or working longer than an 8-hour work day, or as defined in section B.1.)

Work that requires railroad flaggers to occupy the work zone for longer duration or longer than the normal work day will require 40 day written notice to the railroad.

### **C.2 Rates – BNSF**

The following rates, reimbursement provisions, and excluded conditions will be used to determine the contractor's cost of flagging:

\$950 daily rate for an eight-hour day (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),

\$1,600 "Rest Time" or nightly rate for weekday overnight work for an eight-hour day (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),

\$1,200 daily rate for an eight-hour day on Saturdays, Sundays or holidays (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),

\$2,400 "Rest Time" or nightly rate for weekend overnight work for an eight-hour day (including wages, labor surcharges, meals, lodging, vehicle and mileage expenses),

\$120 per hour overtime rate for all time worked before or after the regular assigned eight hours on any day, or for a minimum three hour call on Saturdays, Sundays, or Holidays.

The flagger is required to set flags each day in advance of the contractor commencing work that will require flagging. The flagger must also remove the flags each day after the completion of work that required flagging. Any time worked before or after the minimum eight-hour flagging day to set or remove flags will be billed at the overtime rate. The contractor is responsible for knowing the requirements of the railroad for arranging and terminating flagging services and for the associated costs of those services.

### **C.3 Reimbursement Provisions**

The actual cost for flagging will be billed by the railroad. After the completion of the work requiring flagging protection as provided in section B above, the department will reimburse 50% of the cost of such services up to the rates provided above based on paid railroad invoices, except for the excluded conditions enumerated below. In the event actual flagging rates exceed the rates stated above, the department will reimburse 100% of the portion of the rate that is greater than the rates stated above.

### **C.4 Excluded Conditions**

The department will not reimburse any of the cost for additional flagging attributable to the following:

1. Additional flagging requirements imposed by the railroad beyond the flagging requirements provided in subsection B above due to violations by the contractor.
2. Temporary construction crossings arranged for by the contractor.

The contractor will bear all costs of the additional flagging requirements for the excluded conditions.

### **C.5 Payment for Flagging**

Railroads may issue progressive bills. Notify the railroad when the work is completed and request a final bill from the railroad. The railroad will issue a final bill. Promptly pay railroad-flagging bills, less any charges that may be in dispute. The department will pay for flagging reimbursement under the Railroad Flagging Reimbursement administrative item. The department will withhold flagging reimbursement until any disputed charges are resolved and the final bill is paid. No reimbursement for flagging will be made by the department if a violation of subsection B is documented.

### **D Rail Security Awareness and Contractor Orientation**

Comply with applicable safety rules and regulations of BNSF Railway Company, including those found on the website noted below, and any reasonable safety rules and regulations of the railroad.

The contractor or subcontractors will not enter railroad right-of-way for construction of Highway Project 7190-03-72 without first having each employee of the contractor who will perform work on railroad right-of-way first complete the BNSF Railway safety



orientation found on the website: [www.contractororientation.com](http://www.contractororientation.com) or e-RAILSAFE.com. The department's Easement Agreement with the railroad provides that: "Certification of course completion by participants will not be contingent on any agreement to indemnify the Grantor or any contractual criteria. Certification will be contingent solely on proper completion of the course and understanding of the rail safety concepts presented. Any requirement contrary to this paragraph imposed under the software programs will be considered invalid and nonbinding upon any department employee, or its agents, contractors, assigns, and their employees. The parties agree and acknowledge that completion of such a course does not warrant or insure any person's safety in a rail corridor".

The department has secured right of entry to railroad property, neither the contractor or subcontractors or their employees will be required to sign a right-of-entry form. The rail security awareness and contractor orientation certification is valid for one year and must be renewed for projects that will carry over to another year. Costs associated with these courses are incidental to other items in the contract.

#### **E Indemnification to Railroad**

*To the fullest extent permitted by law, the contractor will indemnify BNSF Railway Company, and its affiliated companies, partners, successors, assigns, legal representatives, officers, directors, shareholders, employees and agents (collectively "indemnities") for, from and against any and all claims, liabilities, fines, penalties, costs, damages, losses, liens, causes of action, suits, demands, judgments and expenses (including without limitation, court costs, attorney's fees and costs of investigation, removal and remediation and governmental oversight costs) environmental or otherwise (collectively, "liabilities") of any nature, kind or description of any person or entity directly or indirectly arising out of, resulting from or related to (in whole or in part) any of the following:*

- i. Injuries or damages received or sustained by a person, persons, or property resulting from the contractors operations.
- ii. Neglect in safeguarding the work
- iii. Use of unacceptable materials in constructing the work.
- iv. Acts or omissions, neglect, or misconduct of the contractor.
- v. Claims or amounts recovered for an infringement by the contractor of patent, trademark, or copyright.
- vi. Claims or amounts arising or recovered under the workers compensation act, relating to the contractors employees.
- vii. The contractor's noncompliance with a law, ordinance, order or decree relating to the contract between the department and the contractor.
- viii. Any violation of the terms of the easement agreement between the department and BNSF Railway Company by the contractor, including without limitation, its environmental provisions.
- ix. The contractor's exercise of any rights or interests granted pursuant to the easement agreement between the department and BNSF Railway Company.
- x. The occupation and use of the right-of-way or property of the railroad within the limits of Project 7190-03-72 by the contractor, or contractor's officers, agents, invitees, licensees, employees, or subcontractors, or anyone directly or indirectly

employed by any of them, or anyone they control or exercise control over (individually, a “grantee party”, and collectively, “grantee parties”).

- xi. The environmental condition and status of the premises caused by or contributed by grantee parties.
- xii. Any act or omission of grantee parties.

Even if liabilities described above arise from or are attributed to, in whole or in part, any negligence of any indemnitee, the contractor will to the fullest extent provided by law indemnify the indemnitees for such liabilities except those proximately caused by the gross negligence or willful misconduct of an indemnitee.

To the fullest extent permitted by law, the contractor will for now and forever waive any and all claims, regardless whether based on strict liability, negligence or otherwise, that BNSF Railway Company is an “owner”, “operator”, “arranger”, or “transporter” with respect to the public highway and related subsurface to be constructed for the purposes of CERCLA or other environmental laws. The contractor, by use of the right-of-way or property of BNSF Railway Company, as contemplated by the Easement Agreement, will not in any way subject BNSF Railway Company to claims that BNSF Railway Company is other than a common carrier for purposes of environmental laws.

To the fullest extent permitted by law, the contractor will, regardless of any negligence or alleged negligence of any indemnitee, indemnify and hold harmless the indemnitees against and assume the defense of any liabilities asserted against or suffered by any indemnitee under or related to the federal employers’ liability act (“FELA”) whenever employees of contractor or any of its agents, invitees, or subcontractors claim or allege that they are employees of any indemnitee or otherwise. This indemnity will also extend, on the same basis, to FELA claims based on actual or alleged violations of any federal, state or local laws or regulations, including but not limited to the safety appliance act, the boiler inspection plate act, the occupational health and safety act, and any similar state or federal statute.

To the fullest extent permitted by law, the contractor will, upon written notice from BNSF Railway Company, assume the defense of any lawsuit or other proceeding brought against any Indemnitee by any entity, relating to any matter for which the contractor has an obligation to assume liability for and/or save and hold harmless any Indemnitee described herein or under the Easement Agreement.

## **F Additional Environmental Requirements**

The following supplements other provisions of the standard specifications.

The contractor will give timely notice to the BNSF Railway Resource Operations Center at (800) 832-5452 of any release of hazardous substances on or from railroad right-of-way or property, violation of Environmental Laws, or inspection or inquiry by governmental authorities charged with enforcing Environmental Laws with respect to use of BNSF Railway Company right-of-way or property for the project. The contractor will use its best efforts to promptly respond to any release on or from the railroad right-of-way or property.

The contractor will also give the railroad immediate notice of all measures undertaken on behalf of the railroad to investigate, remediate, respond to or otherwise cure such release or violation.

In the event that BNSF Railway Company has notice from the contractor or otherwise of a release or violation of Environmental Laws which occurred or may occur during the term of Project 7190-03-72, the remediation, if any, and clean-up, if any, of such hazardous materials will be performed according to the requirements of all applicable state and federal laws and regulations.

In the event that the department or the contractor discovers hazardous materials on railroad right-of-way, the reporting, remediation, if any, and clean-up, if any, of such hazardous materials will be performed according to the requirements of all applicable state and federal laws and regulations.

#### **G Personal Property Waiver**

All personal property, including, but not limited to, fixtures, equipment, or related materials upon the right-of-way or property of the railroad are at the risk of the contractor only and BNSF Railway Company, and its affiliated companies, partners, successors, assigns, legal representatives, officers, directors, shareholders, employees and agents will not be liable for any damage thereto or theft thereof, whether or not due in whole or in part to the negligence of any of them.

### **9. BNSF Railway Company Requirements.**

#### **A General**

In addition to requirements of the standard specifications and other articles within these special provisions, comply with the following requirements of BNSF Railway Company (BNSF).

#### **B Request for Information/Clarification**

All requests for information (RFI) involving work within BNSF right-of-way shall be according to the procedures listed elsewhere in the special provisions. Submit all RFIs to the BNSF and cc the engineer. Allow four weeks for BNSF's review.

#### **C Plans/Specifications**

Changes to the plans or specifications are subject to the approval of BNSF. Submit all change requests to the BNSF. Allow four weeks for BNSF review time after receipt of a change request.

#### **D Construction Submittals**

Submit four sets of the following to the BNSF. All design submittals will be stamped and signed by a professional engineer registered in the State of Wisconsin. A satisfactory submittal review does not relieve the contractor of responsibility and liability. The BNSF may review the submittals. If the engineer or BNSF finds a submittal unsatisfactory, make all required changes and resubmit it. A satisfactory submittal review does not relieve the

contractor of responsibility and liability of complying with the plans, specifications and the special provisions and for the structural integrity and proper functioning of the item that is the subject of the submittal. Allow four weeks for BNSF's review time after receipt of a submittal.

Item	Description of Submittal Item	Notes
1	Shoring Design and Details	
2	Falsework Design and Details	
3	Drainage Design Provisions	
4	Erection Diagrams and Sequence	
5	Demolition Diagram and Sequence	
6	Shop Drawings	Steel and concrete members.

Whenever work may affect the operations or safety of trains, the method of doing such work will first be submitted to BNSF's designated representative for review. Review by BNSF will not relieve the contractor from liability.

#### **E Infringement on Minimum Clearances**

Submit to the engineer requests for infringement upon the minimum horizontal or vertical clearance requirements of standard spec 107.17.1 (2) 4. The engineer will submit the requests to BNSF's designated representative. Allow four weeks for BNSF's review time after receipt of a submittal. Do not infringe upon the minimum clearances unless they are first approved in writing by BNSF.

#### **F Approval of Details**

Submit details of construction affecting BNSF tracks, structure, and right-of-way not included in the plans to the engineer for BNSF review before undertaking such work. Allow four weeks for BNSF's review.

#### **G Site Inspections by BNSF**

BNSF may make site inspections at any time. Provide the engineer a schedule of anticipated dates for the following activities; the engineer will furnish the schedule to BNSF:

1. Shoring
2. Demolition
3. Falsework
4. Erection of superstructure
5. Completion of the bridge structure.

Update the schedule monthly, or more frequently if necessary, so that site visits may be scheduled.

#### **I Construction Excavations and Demolition**

Construction excavations will meet OSHA and American Railway Engineering and Maintenance-of-Way Association (AREMA) requirements and the BNSF "Guidelines for Temporary Shoring" (GTS).

Demolition will be done according to BNSF Railway - Union Pacific Railroad's Guidelines for Preparation of a Bridge Demolition and Removal Plan for Structures over Railroad (GPBDRP)

The GTS and the GPBDRP are available for review from the Southwest Region's Railroad Coordinator at the department's Southwest Regional Office located at 3550 Mormon Coulee Rd., La Crosse, WI 54601.

#### **J Right of Entry**

Prior to performing work on BNSF right-of-way, contractor will enter into an Exhibit C and C-1 right-of-entry agreement in the form attached. Upon award, contractor must request a project-specific agreement.

### **10. BNSF Railroad Right of Entry Exhibit "C".**

## **EXHIBIT "C"**

### **CONTRACTOR REQUIREMENTS**

#### **1.01 General**

**1.01.01** The contractor must cooperate with BNSF RAILWAY COMPANY, hereinafter referred to as "Railway" where work is over or under on or adjacent to Railway property and/or right-of-way, hereafter referred to as "Railway Property", during the construction of:

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**1.01.02** The contractor must execute and deliver to the Railway duplicate copies of the Exhibit "C-1" Agreement, in the form attached hereto, obligating the contractor to provide and maintain in full force and effect the insurance called for under section 3 of said Exhibit "C-1". Questions regarding procurement of the Railroad Protective Liability Insurance should be directed to Rosa Martinez at Marsh, USA, 214-303-8519.

**1.01.03** The contractor must plan, schedule and conduct all work activities so as not to interfere with the movement of any trains on Railway Property.

**1.01.04** The contractor's right to enter Railway's Property is subject to the absolute right of Railway to cause the contractor's work on Railway's Property to cease if, in the opinion of Railway, contractor's activities create a hazard to Railway's Property, employees, and/or operations. Railway will have the right to stop construction work on the Project if any of the following events take place: (i) contractor (or any of its subcontractors) performs the Project work in a manner contrary to the plans and specifications approved by Railway; (ii) contractor (or any of its subcontractors), in Railway's opinion, prosecutes the Project work in a manner which is hazardous to Railway property, facilities or the safe and expeditious movement of railroad traffic; (iii) the insurance described in the attached Exhibit C-1 is canceled during the course of the Project; or (iv) contractor fails to pay

Railway for the Temporary Construction License or the Easement. The work stoppage will continue until all necessary actions are taken by contractor or its subcontractor to rectify the situation to the satisfaction of Railway's Division Engineer or until additional insurance has been delivered to and accepted by Railway. In the event of a breach of (i) this Agreement, (ii) the Temporary Construction License, or (iii) the Easement, Railway may immediately terminate the Temporary Construction License or the Easement. Any such work stoppage under this provision will not give rise to any liability on the part of Railway. Railway's right to stop the work is in addition to any other rights Railway may have including, but not limited to, actions or suits for damages or lost profits. In the event that Railway desires to stop construction work on the Project, Railway agrees to immediately notify the following individual in writing:

Robert Winterton  
WisDOT SW Region  
3550 Mormon Coulee Rd.  
La Crosse, WI 54601  
Tel: (608)789-7879  
[Robert.Winterton@dot.wi.gov](mailto:Robert.Winterton@dot.wi.gov)

**1.01.05** The contractor is responsible for determining and complying with all Federal, State and Local Governmental laws and regulations, including, but not limited to environmental laws and regulations (including but not limited to the Resource Conservation and Recovery Act, as amended; the Clean Water Act, the Oil Pollution Act, the Hazardous Materials Transportation Act, CERCLA), and health and safety laws and regulations. The contractor hereby indemnifies, defends and holds harmless Railway for, from and against all fines or penalties imposed or assessed by Federal, State and Local Governmental Agencies against the Railway which arise out of contractor's work under this Agreement.

**1.01.06** The contractor must notify the Wisconsin DOT at 608-266-0233 and Railway's Manager Public Projects, telephone number 763-782-3495 at least thirty (30) calendar days before commencing any work on Railway Property. Contractor's notification to Railway must refer to Railway's file \_\_\_\_\_.

**1.01.07** For any bridge demolition and/or falsework above any tracks or any excavations located with any part of the excavations located within, whichever is greater, 25 feet of the nearest track or intersecting a slope from the plane of the top of rail on a 2 horizontal to 1 vertical slope beginning at 11 feet from centerline of the nearest track, both measured perpendicular to center line of track, the contractor must furnish the Railway five sets of working drawings showing details of construction affecting Railway Property and tracks. The working drawing must include the proposed method of installation and removal of falsework, shoring or cribbing, not included in the contract plans and two sets of structural calculations of any falsework, shoring or cribbing. For all excavation and shoring submittal plans, the current "BNSF-UPRR Guidelines for Temporary Shoring" must be used for determining the design loading conditions to be used in shoring design, and all calculations and submittals must be according to the current "BNSF-UPRR Guidelines for Temporary

Shoring". All submittal drawings and calculations must be stamped by a registered professional engineer licensed to practice in the state the project is located. All calculations must take into consideration railway surcharge loading and must be designed to meet American Railway Engineering and Maintenance-of-Way Association (previously known as American Railway Engineering Association) Coopers E-80 live loading standard. All drawings and calculations must be stamped by a registered professional engineer licensed to practice in the state the project is located. The contractor must not begin work until notified by the Railway that plans have been approved. The contractor will be required to use lifting devices such as, cranes and/or winches to place or to remove any falsework over Railway's tracks. In no case will the contractor be relieved of responsibility for results obtained by the implementation of said approved plans.

**1.01.08** Subject to the movement of Railway's trains, Railway will cooperate with the contractor such that the work may be handled and performed in an efficient manner. The contractor will have no claim whatsoever for any type of damages or for extra or additional compensation in the event his work is delayed by the Railway.

## **1.02 Contractor Safety Orientation**

**1.02.01** No employee of the contractor, its subcontractors, agents or invitees may enter Railway Property without first having completed Railway's Engineering Contractor Safety Orientation, found on the web site [www.contractororientation.com](http://www.contractororientation.com). The contractor must ensure that each of its employees, subcontractors, agents or invitees completes Railway's Engineering Contractor Safety Orientation through internet sessions before any work is performed on the Project. Additionally, the contractor must ensure that each and every one of its employees, subcontractors, agents or invitees possesses a card certifying completion of the Railway Contractor Safety Orientation before entering Railway Property. The contractor is responsible for the cost of the Railway Contractor Safety Orientation. The contractor must renew the Railway Contractor Safety Orientation annually. Further clarification can be found on the web site or from the Railway's Representative.

## **1.03 Railway Requirements**

**1.03.01** The contractor must take protective measures as are necessary to keep railway facilities, including track ballast, free of sand, debris, and other foreign objects and materials resulting from his operations. Any damage to railway facilities resulting from contractor's operations will be repaired or replaced by Railway and the cost of such repairs or replacement must be paid for by the Agency.

**1.03.02** The contractor must notify the Railway's Division Engineer \_\_\_\_\_ at (\_\_\_\_\_) \_\_\_\_\_ and provide blasting plans to the Railway for review seven calendar days prior to conducting any blasting operations adjacent to or on Railway's Property.

**1.03.03** The contractor must abide by the following temporary clearances during construction:

- 15'-0"      Horizontally from centerline of nearest track

- 21'-6" Vertically above top of rail
- 27'-0" Vertically above top of rail for electric wires carrying less than 750 volts
- 28'-0" Vertically above top of rail for electric wires carrying 750 volts to 15,000 volts
- 30'-0" Vertically above top of rail for electric wires carrying 15,000 volts to 20,000 volts
- 34'-0" Vertically above top of rail for electric wires carrying more than 20,000 volts

**1.03.04** Upon completion of construction, the following clearances will be maintained:

- 25' Horizontally from centerline of nearest track
- 23' 6" Vertically above top of rail

**1.03.05** Any infringement within State statutory clearances due to the contractor's operations must be submitted to the Railway and to the Wisconsin DOT and must not be undertaken until approved in writing by the Railway, and until the Wisconsin DOT has obtained any necessary authorization from the State Regulatory Authority for the infringement. No extra compensation will be allowed in the event the contractor's work is delayed pending Railway approval, and/or the State Regulatory Authority's approval.

**1.03.06** In the case of impaired vertical clearance above top of rail, Railway will have the option of installing tell-tales or other protective devices Railway deems necessary for protection of Railway operations. The cost of tell-tales or protective devices will be borne by the Agency.

**1.03.07** The details of construction affecting the Railway's Property and tracks not included in the contract plans must be submitted to the Railway by Wisconsin DOT for approval before work is undertaken and this work must not be undertaken until approved by the Railway.

**1.03.08** At other than public road crossings, the contractor must not move any equipment or materials across Railway's tracks until permission has been obtained from the Railway. The contractor must obtain a "Temporary Construction Crossing Agreement" from the Railway prior to moving his equipment or materials across the Railways tracks. The temporary crossing must be gated and locked at all times when not required for use by the contractor. The temporary crossing for use of the contractor will be constructed and, at the completion of the project, removed at the expense of the contractor.

**1.03.09** Discharge, release or spill on the Railway Property of any hazardous substances, oil, petroleum, constituents, pollutants, contaminants, or any hazardous waste is prohibited and contractor must immediately notify the Railway's Resource Operations Center at 1(800) 832-5452, of any discharge, release or spills in excess of a reportable quantity. Contractor must not allow Railway Property to become a treatment, storage or transfer facility as those terms are defined in the Resource Conservation and Recovery Act or any state analogue.



**1.03.10** The contractor upon completion of the work covered by this contract, must promptly remove from the Railway's Property all of contractor's tools, equipment, implements and other materials, whether brought upon said property by said contractor or any subcontractor, employee or agent of contractor or of any Subcontractor, and must cause Railway's Property to be left in a condition acceptable to the Railway's representative.

**1.04 Contractor Roadway Worker on Track Safety Program and Safety Action Plan:**

**1.04.01** Each contractor that will perform work within 25 feet of the centerline of a track must develop and implement a Roadway Worker Protection/On Track Safety Program and work with Railway Project Representative to develop an on track safety strategy as described in the guidelines listed in the on track safety portion of the Safety Orientation. This Program must provide Roadway Worker protection/on track training for all employees of the contractor, its subcontractors, agents or invitees. This training is reinforced at the job site through job safety briefings. Additionally, each contractor must develop and implement the Safety Action Plan, as provided for on the web site [www.contractororientation.com](http://www.contractororientation.com), which will be made available to Railway prior to commencement of any work on Railway Property. During the performance of work, the contractor must audit its work activities. The contractor must designate an on-site Project Supervisor who will serve as the contact person for the Railway and who will maintain a copy of the Safety Action Plan, safety audits, and Material Safety Datasheets (MSDS), at the job site.

**1.04.02** Contractor will have a background investigation performed on all of its employees, subcontractors and agents who will be performing any services for Railroad under this Agreement which are determined by Railroad in its sole discretion **a)** to be on Railroad's property, or **b)** that require access to Railroad Critical Infrastructure, Railroad Critical Information Systems, Railroad's Employees, Hazardous Materials on Railroad's property or is being transported by or otherwise in the custody of Railroad, or Freight in Transit involving Railroad.

The required background screening will at a minimum meet the rail industry background screening criteria defined by the e-RAILSAFE Program as outlined at <http://www.e-railsafe.com>, in addition to any other applicable regulatory requirements.

Contractor will obtain written consent from all its employees, subcontractors or agents screened in compliance with the e-RAILSAFE Program to participate in the Program on their behalf and to release completed background information to Railroad's designee. Contractor will be subject to periodic audit to ensure compliance.

Contractor subject to the e-RAILSAFE Program hereunder will not permit any of its employees, subcontractors or agents to perform services hereunder who are not first approved under e-RAILSAFE Program standards. Railroad will have the right to deny entry onto its premises or access as described in this section above to any of contractor's employees, subcontractors or agents who do not display the authorized identification badge issued by a background screening service meeting the standards set forth in the e-

RAILSAFE Program, or who in Railroad's opinion, which may not be unreasonable, may pose a threat to the safety or security of Railroad's operations, assets or personnel. Contractors will be responsible for ensuring that its employees, subcontractors and agents are United States citizens or legally working in the United States under a lawful and appropriate work VISA or other work authorization.

#### **1.05 Railway Flagger Services**

**1.05.01** The contractor must give Railway's **Roadmaster** (telephone \_\_\_\_\_) a minimum of 30 calendar days advance notice when flagging services will be required so that the Roadmaster can make appropriate arrangements (i.e., bulletin the flagger's position). If flagging services are scheduled in advance by the contractor and it is subsequently determined by the parties hereto that such services are no longer necessary, the contractor must give the Roadmaster 5 working days advance notice so that appropriate arrangements can be made to abolish the position pursuant to union requirements.

**1.05.02** Unless determined otherwise by Railway's Project Representative, Railway flagger will be required and furnished when contractor's work activities are located over, under and/or within 25 feet measured horizontally from centerline of the nearest track and when cranes or similar equipment positioned beyond 25-feet from the track centerline could foul the track in the event of tip over or other catastrophic occurrence, but not limited thereto for the following conditions:

**1.05.02a** When, upon inspection by Railway's Representative, other conditions warrant.

**1.05.02b** When any excavation is performed below the bottom of the elevation, if, in the opinion of Railway's representative, track or other Railway facilities may be subject to movement or settlement.

**1.05.02c** When work in any way interferes with the safe operation of trains at timetable speeds.

**1.05.02d** When any hazard is presented to Railway track, communications, signal, electrical, or other facilities either due to persons, material, equipment or blasting in the vicinity.

**1.05.02e** Special permission must be obtained from the Railway before moving heavy or cumbersome objects or equipment which might result in making the track impassable.

**1.05.03** Flagging services will be performed by qualified Railway flaggers.

**1.05.03a** Flagging crew generally consists of one employee. However, additional personnel may be required to protect Railway Property and operations, if deemed necessary by the Railways Representative.

**1.05.03b** Each time a flagger is called, the minimum period for billing will be the 8 hour basic day.

**1.05.03c** The cost of flagger services provided by the Railway will be borne by the contractor. The estimated cost for 1 flagger is approximately between \$800.00-\$1,600.00 for an 8 hour basic day with time and one-half or double time for overtime, rest days and holidays. The estimated cost for each flagger includes vacation allowance, paid holidays, Railway and unemployment insurance, public liability and property damage insurance, health and welfare benefits, vehicle, transportation, meals, lodging, radio, equipment, supervision and other costs incidental to performing flagging services. Negotiations for Railway labor or collective bargaining agreements and rate changes authorized by appropriate Federal authorities may increase actual or estimated flagging rates. The flagging rate in effect at the time of performance by the contractor hereunder will be used to calculate the actual costs of flagging pursuant to this paragraph.

**1.05.03d** The average train traffic on this route is 43 freight trains per 24-hour period at a timetable speed 35 MPH and 0 passenger trains at a timetable speed of \_\_\_\_\_ MPH.

#### **1.06 Contractor General Safety Requirements**

**1.06.01** Work in the proximity of railway track(s) is potentially hazardous where movement of trains and equipment can occur at any time and in any direction. All work performed by contractors within 25 feet of any track must be in compliance with FRA Roadway Worker Protection Regulations.

**1.06.02** Before beginning any task on Railway Property, a thorough job safety briefing must be conducted with all personnel involved with the task and repeated when the personnel or task changes. If the task is within 25 feet of any track, the job briefing must include the Railway's flagger, as applicable, and include the procedures the contractor will use to protect its employees, subcontractors, agents or invitees from moving any equipment adjacent to or across any Railway track(s).

**1.06.03** Workers must not work within 25 feet of the centerline of any track without an on track safety strategy approved by the Railway's Project Representative. When authority is provided, every contractor employee must know: (1) who the Railway flagger is, and how to contact the flagger, (2) limits of the authority, (3) the method of communication to stop and resume work, and (4) location of the designated places of safety. Persons or equipment entering flag/work limits that were not previously job briefed, must notify the flagger immediately, and be given a job briefing when working within 25 feet of the center line of track.

**1.06.04** When contractor employees are required to work on the Railway Property after normal working hours or on weekends, the Railway's representative in charge of the project must be notified. A minimum of two employees must be present at all times.

**1.06.05** Any employees, agents or invitees of contractor or its subcontractors under suspicion of being under the influence of drugs or alcohol, or in the possession of same, will be removed from the Railway's Property and subsequently released to the custody of

a representative of contractor management. Future access to the Railway's Property by that employee will be denied.

**1.06.06** Any damage to Railway Property, or any hazard noticed on passing trains must be reported immediately to the Railway's representative in charge of the project. Any vehicle or machine which may come in contact with track, signal equipment, or structure (bridge) and could result in a train derailment must be reported immediately to the Railway representative in charge of the project and to the Railway's Resource Operations Center at (800) 832-5452. Local emergency numbers are to be obtained from the Railway representative in charge of the project prior to the start of any work and must be posted at the job site.

**1.06.07** For safety reasons, all persons are prohibited from having pocket knives, firearms or other deadly weapons in their possession while working on Railway's Property.

**1.06.08** All personnel protective equipment (PPE) used on Railway Property must meet applicable OSHA and ANSI specifications. Current Railway personnel protective equipment requirements are listed on the web site, [www.contractororientation.com](http://www.contractororientation.com), however, a partial list of the requirements include: a) safety glasses with permanently affixed side shields (no yellow lenses); b) hard hats; c) safety shoe with: hardened toes, above-the-ankle lace-up and a defined heel; and d) high visibility retro-reflective work wear. The Railway's representative in charge of the project is to be contacted regarding local specifications for meeting requirements relating to hi-visibility work wear. Hearing protection, fall protection, gloves, and respirators must be worn as required by State and Federal regulations. **(NOTE – Should there be a discrepancy between the information contained on the web site and the information in this paragraph, the web site will govern.)**

**1.06.09** THE CONTRACTOR MUST NOT PILE OR STORE ANY MATERIALS, MACHINERY OR EQUIPMENT CLOSER THAN 25'-0" TO THE CENTER LINE OF THE NEAREST RAILWAY TRACK. MATERIALS, MACHINERY OR EQUIPMENT MUST NOT BE STORED OR LEFT WITHIN 250 FEET OF ANY HIGHWAY/RAIL AT-GRADE CROSSINGS OR TEMPORARY CONSTRUCTION CROSSING, WHERE STORAGE OF THE SAME WILL OBSTRUCT THE VIEW OF A TRAIN APPROACHING THE CROSSING. PRIOR TO BEGINNING WORK, THE CONTRACTOR MUST ESTABLISH A STORAGE AREA WITH CONCURRENCE OF THE RAILWAY'S REPRESENTATIVE.

**1.06.10** Machines or vehicles must not be left unattended with the engine running. Parked machines or equipment must be in gear with brakes set and if equipped with blade, pan or bucket, they must be lowered to the ground. All machinery and equipment left unattended on Railway's Property must be left inoperable and secured against movement. (See internet Engineering Contractor Safety Orientation program for more detailed specifications)

**1.06.11** Workers must not create and leave any conditions at the work site that would interfere with water drainage. Any work performed over water must meet all Federal, State and Local regulations.

**1.06.12** All power line wires must be considered dangerous and of high voltage unless informed to the contrary by proper authority. For all power lines the minimum clearance between the lines and any part of the equipment or load must be; 200 KV or below – 15 feet; 200 to 350 KV - 20 feet; 350 to 500 KV - 25 feet; 500 to 750 KV - 35 feet; and 750 to 1000 KV - 45 feet. If capacity of the line is not known, a minimum clearance of 45 feet must be maintained. A person must be designated to observe clearance of the equipment and give a timely warning for all operations where it is difficult for an operator to maintain the desired clearance by visual means.

### **1.07 Excavation**

**1.07.01** Before excavating, the contractor must determine whether any underground pipe lines, electric wires, or cables, including fiber optic cable systems are present and located within the Project work area. The contractor must determine whether excavation on Railway's Property could cause damage to buried cables resulting in delay to Railway traffic and disruption of service to users. Delays and disruptions to service may cause business interruptions involving loss of revenue and profits. Before commencing excavation, the contractor must contact **BNSF's Field Engineering Representative** (\_\_\_\_\_). All underground and overhead wires will be considered HIGH VOLTAGE and dangerous until verified with the company having ownership of the line. **It is the contractor's responsibility to notify any other companies that have underground utilities in the area and arrange for the location of all underground utilities before excavating.**

**1.07.02** The contractor must cease all work and notify the Railway immediately before continuing excavation in the area if obstructions are encountered which do not appear on drawings. If the obstruction is a utility and the owner of the utility can be identified, then the contractor must also notify the owner immediately. If there is any doubt about the location of underground cables or lines of any kind, no work must be performed until the exact location has been determined. There will be no exceptions to these instructions.

**1.07.03** All excavations must be conducted in compliance with applicable OSHA regulations and, regardless of depth, must be shored where there is any danger to tracks, structures or personnel.

**1.07.04** Any excavations, holes or trenches on the Railway's Property must be covered, guarded and/or protected when not being worked on. When leaving work site areas at night and over weekends, the areas must be secured and left in a condition that will ensure that Railway employees and other personnel who may be working or passing through the area are protected from all hazards. All excavations must be back filled as soon as possible.

### **1.08 Hazardous Waste, Substances and Material Reporting**

**1.08.01** If contractor discovers any hazardous waste, hazardous substance, petroleum or other deleterious material, including but not limited to any non-containerized commodity or material, on or adjacent to Railway's Property, in or near any surface water, swamp, wetlands or waterways, while performing any work under this Agreement, contractor must immediately: (a) notify the Railway's Resource Operations Center at (800) 832-5452, of such discovery: (b) take safeguards necessary to protect its employees, subcontractors, agents and/or third parties: and (c) exercise due care with respect to the release, including the taking of any appropriate measure to minimize the impact of such release.

**1.09 Personal Injury Reporting**

**1.09.01** The Railway is required to report certain injuries as a part of compliance with Federal Railroad Administration (FRA) reporting requirements. Any personal injury sustained by an employee of the contractor, subcontractor or contractor's invitees while on the Railway's Property must be reported immediately (by phone mail if unable to contact in person) to the Railway's representative in charge of the project. The Non-Employee Personal Injury Data Collection Form contained herein is to be completed and sent by Fax to the Railway at (817) 352-7595 and to the Railway's Project Representative no later than the close of shift on the date of the injury.



## COLLECTION

## NON-EMPLOYEE PERSONAL INJURY DATA

(If injuries are in connection with rail equipment accident/incident, highway rail grade crossing accident or automobile accident, ensure that appropriate information is obtained, forms completed and that data entry personnel are aware that injuries relate to that specific event.)

Injured Person Type:

- |                          |  |                          |   |
|--------------------------|--|--------------------------|---|
| <input type="checkbox"/> | Passenger on train (C)   | <input type="checkbox"/> | Non-employee (N)<br><i>(i.e., emp of another railroad, or, non-BNSF emp involved in vehicle accident, including company vehicles)</i> |
| <input type="checkbox"/> | Contractor/safety sensitive (F)  | <input type="checkbox"/> | Contractor/non-safety sensitive (G)   |
| <input type="checkbox"/> | Volunteer/safety sensitive (H)   | <input type="checkbox"/> | Volunteer/other non-safety sensitive (I)  |
| <input type="checkbox"/> | Non-trespasser (D) - to include highway users involved in highway rail grade crossing accidents who did not go around or through gates |                          |   |
| <input type="checkbox"/> | Trespasser (E) - to include highway users involved in highway rail grade crossing accidents who went around or through gates           |                          |   |
| <input type="checkbox"/> | Non-trespasser (J) - Off railroad property   |                          |   |

If train involved, Train ID:

\_\_\_\_\_

Transmit attached information to Accident/Incident Reporting Center by:

Fax 1-817-352-7595 or by Phone 1-800-697-6736 or email to: [Accident-Reporting.Center@BNSF.com](mailto:Accident-Reporting.Center@BNSF.com)

Officer Providing Information:

_____	_____	_____
(Name)	(Employee)	(Phone #)

REPORT PREPARED TO COMPLY WITH FEDERAL ACCIDENT REPORTING REQUIREMENTS AND PROTECTED FROM DISCLOSURE PURSUANT TO 49 U.S.C. 20903 AND 83 U.S.C. 490

## NON-EMPLOYEE PERSONAL INJURY DATA COLLECTION

INFORMATION REQUIRED TO BE COLLECTED PURSUANT TO FEDERAL REGULATION. IT SHOULD BE USED FOR COMPLIANCE WITH FEDERAL REGULATIONS ONLY AND IT IS NOT INTENDED TO PRESUME ACCEPTANCE OF RESPONSIBILITY OR LIABILITY.

1. Accident City/St:	_____	2. Date:	_____	Time:	_____
County:	_____	3. Temperature:	_____	4. Weather:	_____
(if non BNSF location)					
Mile Post / Line Segment: _____					
5. Driver's License No (and state) or other ID:			SSN (required): _____		
6. Name (last, first, mi): _____					
7. Address:		City:	St:	Zip:	
_____		_____	_____	_____	
8. Date of Birth:		and/or Age:		Gender:	
_____		_____		_____	
		(if available)			
Phone Number:		Employer:			
_____		_____			
9. Injury:		10. Body Part:			
_____		_____			
(i.e., Laceration, etc.)		(i.e., Hand, etc.)			
11. Description of Accident (To include location, action, result, etc.):					
_____					
_____					
_____					
12. Treatment:					
<input type="checkbox"/> First Aid Only _____					
<input type="checkbox"/> Required Medical Treatment _____					
<input type="checkbox"/> Other Medical Treatment _____					
_____					
13. Dr. Name:			Date:		
_____			_____		
14. Dr. Address:					
Street:		City:	St:	Zip:	
_____		_____	_____	_____	
15. Hospital Name:					
_____					
16. Hospital Address:					
Street:		City:	St:	Zip:	
_____		_____	_____	_____	
17. Diagnosis:					
_____					



11. **BNSF Railroad Right of Entry Exhibit "C-1".**

**EXHIBIT "C-1"**  
**Agreement Between**  
**BNSF RAILWAY COMPANY**  
**and the**  
**CONTRACTOR**

**Railway File:** \_\_\_\_\_

**Agency Project:** \_\_\_\_\_

**Contractor Name** (hereinafter called "Contractor"), has entered into an agreement (hereinafter called "Agreement") dated \_\_\_\_\_, 201\_, with the Wisconsin Department of Transportation for the performance of certain work in connection with the following project:\_\_\_\_\_ Performance of such work will necessarily require contractor to enter **BNSF RAILWAY COMPANY** (hereinafter called "Railway") right-of-way and property (hereinafter called "Railway Property"). The Agreement provides that no work will be commenced within Railway Property until the contractor employed in connection with said work for the Wisconsin Department of Transportation (i) executes and delivers to Railway an Agreement in the form hereof, and (ii) provides insurance of the coverage and limits specified in such Agreement and section 3 herein. If this Agreement is executed by a party who is not the Owner, General Partner, President or Vice President of Contractor, contractor must furnish evidence to Railway certifying that the signatory is empowered to execute this Agreement on behalf of contractor.

Accordingly, in consideration of Railway granting permission to contractor to enter upon Railway Property and as an inducement for such entry, contractor, effective on the date of the Agreement, has agreed and does hereby agree with Railway as follows:

**1) RELEASE OF LIABILITY AND INDEMNITY**

Contractor hereby waives, releases, indemnifies, defends and holds harmless Railway for all judgments, awards, claims, demands, and expenses (including attorneys' fees), for injury or death to all persons, including Railway's and contractor's officers and employees, and for loss and damage to property belonging to any person, arising in any manner from contractor's or any of contractor's subcontractors' acts or omissions or any work performed on or about Railway's property or right-of-way. **THE LIABILITY ASSUMED BY CONTRACTOR WILL NOT BE AFFECTED BY THE FACT, IF IT IS A FACT, THAT THE DESTRUCTION, DAMAGE, DEATH, OR INJURY WAS OCCASIONED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF RAILWAY, ITS AGENTS, SERVANTS, EMPLOYEES OR OTHERWISE, EXCEPT TO THE EXTENT THAT SUCH CLAIMS ARE PROXIMATELY CAUSED BY THE INTENTIONAL MISCONDUCT OR GROSS NEGLIGENCE OF RAILWAY.**

**THE INDEMNIFICATION OBLIGATION ASSUMED BY CONTRACTOR INCLUDES ANY CLAIMS, SUITS OR JUDGMENTS BROUGHT AGAINST RAILWAY UNDER THE FEDERAL EMPLOYEE'S LIABILITY ACT, INCLUDING CLAIMS FOR STRICT LIABILITY UNDER THE SAFETY APPLIANCE ACT OR THE LOCOMOTIVE INSPECTION ACT, WHENEVER SO CLAIMED.**

Contractor further agrees, at its expense, in the name and on behalf of Railway, that it will adjust and settle all claims made against Railway, and will, at Railway's discretion, appear and defend any suits or actions of law or in equity brought against Railway on any claim or cause of action arising or growing out of or in any manner connected with any liability assumed by contractor under this Agreement for which Railway is liable or is alleged to be liable. Railway will give notice to contractor, in writing, of the receipt or dependency of such claims and thereupon contractor must proceed to adjust and handle to a conclusion such claims, and in the event of a suit being brought against Railway, Railway may forward summons and complaint or other process in connection therewith to contractor, and contractor, at Railway's discretion, must defend, adjust, or settle such suits and protect, indemnify, and save harmless Railway from and against all damages, judgments, decrees, attorney's fees, costs, and expenses growing out of or resulting from or incident to any such claims or suits.

In addition to any other provision of this Agreement, in the event that all or any portion of this Article will be deemed to be inapplicable for any reason, including without limitation as a result of a decision of an applicable court, legislative enactment or regulatory order, the parties agree that this Article will be interpreted as requiring contractor to indemnify Railway to the fullest extent permitted by applicable law. **THROUGH THIS AGREEMENT THE PARTIES EXPRESSLY INTEND FOR CONTRACTOR TO INDEMNIFY RAILWAY FOR RAILWAY'S ACTS OF NEGLIGENCE.**

It is mutually understood and agreed that the assumption of liabilities and indemnification provided for in this Agreement survive any termination of this Agreement.

## **2) TERM**

This Agreement is effective from the date of the Agreement until (i) the completion of the project set forth herein, and (ii) full and complete payment to Railway of any and all sums or other amounts owing and due hereunder.

## **3) INSURANCE**

Contractor will, at its sole cost and expense, procure and maintain during the life of this Agreement the following insurance coverage:

- A. Commercial General Liability insurance. This insurance will contain broad form contractual liability with a combined single limit of a minimum of \$5,000,000 each occurrence and an aggregate limit of at least \$10,000,000 but in no event less than the amount otherwise carried by the contractor. Coverage must be purchased on a post 2004

ISO occurrence form or equivalent and include coverage for, but not limit to the following:

- Bodily Injury and Property Damage
- Personal Injury and Advertising Injury
- Fire legal liability
- Products and completed operations

This policy will also contain the following endorsements, which will be indicated on the certificate of insurance:

- The definition of insured contract will be amended to remove any exclusion or other limitation for any work being done within 50 feet of railroad property.
- Waiver of subrogation in favor of and acceptable to Railway.
- Additional insured endorsement in favor of and acceptable to Railway.
- Separation of insureds.
- The policy will be primary and non-contributing with respect to any insurance carried by Railway.

It is agreed that the workers' compensation and employers' liability related exclusions in the Commercial General Liability insurance policy(s) required herein are intended to apply to employees of the policy holder and will not apply to **Railway** employees.

No other endorsements limiting coverage as respects obligations under this Agreement may be included on the policy with regard to the work being performed under this agreement.

B. Business Automobile Insurance. This insurance will contain a combined single limit of at least \$1,000,000 per occurrence, and include coverage for, but not limited to the following:

- Bodily injury and property damage
- Any and all vehicles owned, used or hired

The policy will also contain the following endorsements or language, which will be indicated on the certificate of insurance:

- Waiver of subrogation in favor of and acceptable to Railway.
- Additional insured endorsement in favor of and acceptable to Railway.
- Separation of insureds.
- The policy will be primary and non-contributing with respect to any insurance carried by Railway.

C. Workers Compensation and Employers Liability insurance including coverage for, but not limited to:

- Contractor's statutory liability under the worker's compensation laws of the state(s) in which the work is to be performed. If optional under State law, the insurance must cover all employees anyway.
- Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 by disease policy limit, \$500,000 by disease each employee.

This policy will also contain the following endorsements or language, which will be indicated on the certificate of insurance:

- Waiver of subrogation in favor of and acceptable to Railway.

D. Railroad Protective Liability insurance naming only the **Railway** as the Insured with coverage of at least \$5,000,000 per occurrence and \$10,000,000 in the aggregate. The policy Must be issued on a standard ISO form CG 00 35 12 04 and include the following:

- Endorsed to include the Pollution Exclusion Amendment
- Endorsed to include the Limited Seepage and Pollution Endorsement.
- Endorsed to remove any exclusion for punitive damages.
- No other endorsements restricting coverage may be added.
- The original policy must be provided to the **Railway** prior to performing any work or services under this Agreement
- Definition of "Physical Damage to Property" will be endorsed to read: "means direct and accidental loss of or damage to all property owned by any named insured and all property in any named insured' care, custody, and control arising out of the acts or omissions of the contractor named on the Declarations.

In lieu of providing a Railroad Protective Liability Policy, Licensee may participate (if available) in Railway's Blanket Railroad Protective Liability Insurance Policy.

#### **Other Requirements:**

Where allowable by law, all policies (applying to coverage listed above) will contain no exclusion for punitive damages.

Contractor agrees to waive its right of recovery against **Railway** for all claims and suits against **Railway**. In addition, its insurers, through the terms of the policy or policy endorsement, waive their right of subrogation against **Railway** for all claims and suits. Contractor further waives its right of recovery, and its insurers also waive their right of subrogation against **Railway** for loss of its owned or leased property or property under contractor's care, custody or control.

Allocated Loss Expense will be in addition to all policy limits for coverages referenced above.

Contractor is not allowed to self-insure without the prior written consent of **Railway**. If granted by **Railway**, any self-insured retention or other financial responsibility for claims will be covered directly by contractor in lieu of insurance. Any and all **Railway** liabilities

that would otherwise, according to the provisions of this Agreement, be covered by contractor's insurance will be covered as if contractor elected not to include a deductible, self-insured retention or other financial responsibility for claims.

Prior to commencing services, contractor will furnish to **Railway** an acceptable certificate(s) of insurance from an authorized representative evidencing the required coverage(s), endorsements, and amendments. The certificate should be directed to the following address:

BNSF Railway Company  
c/o CertFocus  
P.O. Box 140528  
Kansas City, MO 64114  
Toll Free: (877) 576-2378  
Fax number: (817) 840-7487  
Email: [BNSF@certfocus.com](mailto:BNSF@certfocus.com)  
[www.certfocus.com](http://www.certfocus.com)

Contractor will notify **Railway** in writing at least 30 days prior to any cancellation, non-renewal, substitution or material alteration.

Any insurance policy will be written by a reputable insurance company acceptable to **Railway** or with a current Best's Guide Rating of A- and Class VII or better, and authorized to do business in the state(s) in which the service is to be provided.

If coverage is purchased on a "claims made" basis, contractor hereby agrees to maintain coverage in force for a minimum of three years after expiration, cancellation or termination of this Agreement. Annually contractor agrees to provide evidence of such coverage as required hereunder.

Contractor represents that this Agreement has been thoroughly reviewed by contractor's insurance agent(s)/broker(s), who have been instructed by contractor to procure the insurance coverage required by this Agreement.

Not more frequently than once every five years, **Railway** may reasonably modify the required insurance coverage to reflect then-current risk management practices in the railroad industry and underwriting practices in the insurance industry.

If any portion of the operation is to be subcontracted by contractor, contractor will require that the subcontractor will provide and maintain insurance coverage(s) as set forth herein, naming **Railway** as an additional insured, and will require that the subcontractor will release, defend and indemnify **Railway** to the same extent and under the same terms and conditions as contractor is required to release, defend and indemnify **Railway** herein.

Failure to provide evidence as required by this section will entitle, but not require, **Railway** to terminate this Agreement immediately. Acceptance of a certificate that does not comply with this section will not operate as a waiver of contractor's obligations hereunder.

The fact that insurance (including, without limitation, self-insurance) is obtained by contractor will not be deemed to release or diminish the liability of contractor including, without limitation, liability under the indemnity provisions of this Agreement. Damages recoverable by **Railway** will not be limited by the amount of the required insurance coverage.

In the event of a claim or lawsuit involving **Railway** arising out of this agreement, contractor will make available any required policy covering such claim or lawsuit.

These insurance provisions are intended to be a separate and distinct obligation on the part of the contractor. Therefore, these provisions will be enforceable and contractor will be bound thereby regardless of whether or not indemnity provisions are determined to be enforceable in the jurisdiction in which the work covered hereunder is performed.

For purposes of this section, **Railway** will mean “Burlington Northern Santa Fe LLC”, “BNSF Railway Company” and the subsidiaries, successors, assigns and affiliates of each.

#### **4) SALES AND OTHER TAXES**

In the event applicable sales taxes of a state or political subdivision of a state of the United States are levied or assessed in connection with and directly related to any amounts invoiced by contractor to Railway (“Sales Taxes”), Railway will be responsible for paying only the Sales Taxes that contractor separately states on the invoice or other billing documents provided to Railway; *provided, however*, that (i) nothing herein will preclude Railway from claiming whatever Sales Tax exemptions are applicable to amounts contractor bills Railway, (ii) Contractor will be responsible for all sales, use, excise, consumption, services and other taxes which may accrue on all services, materials, equipment, supplies or fixtures that contractor and its subcontractors use or consume in the performance of this Agreement, (iii) Contractor will be responsible for Sales Taxes (together with any penalties, fines or interest thereon) that contractor fails to separately state on the invoice or other billing documents provided to Railway or fails to collect at the time of payment by Railway of invoiced amounts (except where Railway claims a Sales Tax exemption), and (iv) Contractor will be responsible for Sales Taxes (together with any penalties, fines or interest thereon) if contractor fails to issue separate invoices for each state in which contractor delivers goods, provides services or, if applicable, transfers intangible rights to Railway.

Upon request, contractor will provide Railway satisfactory evidence that all taxes (together with any penalties, fines or interest thereon) that contractor is responsible to pay under this Agreement have been paid. If a written claim is made against contractor for Sales Taxes with respect to which Railway may be liable for under this Agreement, contractor will promptly notify Railway of such claim and provide Railway copies of all correspondence received from the taxing authority. Railway will have the right to contest, protest, or claim a refund, in Railway’s own name, any Sales Taxes paid by Railway to contractor or for which Railway might otherwise be responsible for under this Agreement; *provided, however*, that if Railway is not permitted by law to contest any such Sales Tax in its own name, contractor will, if requested by Railway at Railway’s sole cost and expense, contest

in contractor's own name the validity, applicability or amount of such Sales Tax and allow Railway to control and conduct such contest.

Railway retains the right to withhold from payments made under this Agreement amounts required to be withheld under tax laws of any jurisdiction. If contractor is claiming a withholding exemption or a reduction in the withholding rate of any jurisdiction on any payments under this Agreement, before any payments are made (and in each succeeding period or year as required by law), Contractor agrees to furnish to Railway a properly completed exemption form prescribed by such jurisdiction. Contractor will be responsible for any taxes, interest or penalties assessed against Railway with respect to withholding taxes that Railway does not withhold from payments to contractor.

## **5) EXHIBIT "C" CONTRACTOR REQUIREMENTS**

The contractor must observe and comply with all provisions, obligations, requirements and limitations contained in the Agreement, and the contractor Requirements set forth on Exhibit "C" attached to the Agreement and this Agreement, including, but not be limited to, payment of all costs incurred for any damages to Railway roadbed, tracks, and/or appurtenances thereto, resulting from use, occupancy, or presence of its employees, representatives, or agents or subcontractors on or about the construction site. Contractor will execute a Temporary Construction Crossing Agreement or Private Crossing Agreement (<http://www.bnsf.com/communities/faqs/permits-real-estate/>), for any temporary crossing requested to aid in the construction of this Project, if approved by BNSF.

## **6) TRAIN DELAY**

Contractor is responsible for and hereby indemnifies and holds harmless Railway (including its affiliated railway companies, and its tenants) for, from and against all damages arising from any unscheduled delay to a freight or passenger train which affects Railway's ability to fully utilize its equipment and to meet customer service and contract obligations. Contractor will be billed, as further provided below, for the economic losses arising from loss of use of equipment, contractual loss of incentive pay and bonuses and contractual penalties resulting from train delays, whether caused by contractor, or subcontractors, or by the Railway performing work under this Agreement. Railway agrees that it will not perform any act to unnecessarily cause train delay.

For loss of use of equipment, contractor will be billed the current freight train hour rate per train as determined from Railway's records. Any disruption to train traffic may cause delays to multiple trains at the same time for the same period.

Additionally, the parties acknowledge that passenger, U.S. mail trains and certain other grain, intermodal, coal and freight trains operate under incentive/penalty contracts between Railway and its customer(s). Under these arrangements, if Railway does not meet its contract service commitments, Railway may suffer loss of performance or incentive pay and/or be subject to penalty payments. Contractor is responsible for any train performance and

incentive penalties or other contractual economic losses actually incurred by Railway which are attributable to a train delay caused by contractor or its subcontractors.

The contractual relationship between Railway and its customers is proprietary and confidential. In the event of a train delay covered by this Agreement, Railway will share information relevant to any train delay to the extent consistent with Railway confidentiality obligations. The rate then in effect at the time of performance by the contractor hereunder will be used to calculate the actual costs of train delay pursuant to this agreement.

Contractor and its subcontractors must give Railway's representative (\_\_\_\_\_) \_\_\_\_\_ (\_\_\_\_) weeks advance notice of the times and dates for proposed work windows. Railway and contractor will establish mutually agreeable work windows for the project. Railway has the right at any time to revise or change the work windows due to train operations or service obligations. Railway will not be responsible for any additional costs or expenses resulting from a change in work windows. Additional costs or expenses resulting from a change in work windows will be accounted for in contractor's expenses for the project.

Contractor and subcontractors must plan, schedule, coordinate and conduct all contractor's work so as to not cause any delays to any trains.



IN WITNESS WHEREOF, each of the parties hereto has caused this Agreement to be executed by its duly authorized officer the day and year first above written.

**Contractor Name**

**BNSF Railway Company**

By: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Name: \_\_\_\_\_

Manager Public Projects

Title: \_\_\_\_\_

Accepted and effective this \_\_\_\_\_ day of 20\_\_.

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Fax: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

**12. Municipality Acceptance of Sanitary Sewer and Water Main Construction.**

Both the department and city of La Crosse personnel will inspect construction of sanitary sewer and water main under this contract. However, construction staking, testing, and acceptance of the sanitary sewer and water main construction will be by the City of La Crosse.

105-001 (20140630)

**13. Referenced Construction Specifications.**

Construct the Sanitary Sewer and Water main work conforming to the City of La Crosse Standard Specifications for Water Main Construction and Sewer Construction. If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

**14. Holiday Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying IH 90, Rose Street, or George Street/STH 35 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, May 26, 2017 to 6:00 AM Tuesday, May 30, 2017 for Memorial Day;
- From noon Friday, June 30, 2017 to 6:00 AM Wednesday, July 5, 2017 for Independence Day;
- From noon Friday, September 1, 2017 to 6:00 AM Tuesday, September 5, 2017 for Labor Day;
- From noon Thursday, September 28, 2017 to 6:00 AM Monday, October 2, 2017 for Oktoberfest.

107-005 (20050502)

**15. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.**

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Steve Vetsch at (608) 785-9049.

107-054 (20080901)

## 16. Utilities.

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

Within the limits of this project there are underground and aerial facilities. Coordinate construction activities with a call to Diggers Hotline, or a direct call to the utilities for the underground facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities, and maintain OSHA code clearances from overhead facilities at all times.

Additional detailed information regarding the location of the relocated utility facilities is available on the permits issued to the utility companies. To view these permits at the southwest regional office during normal working hours contact the regional utility coordinator Mark Goggin at (608) 792-1366.

### **1071-06-82**

The following utilities have facilities with the project limits:

- CenturyLink – Communications Line
- Charter Communications – Communications Line
- City of La Crosse – Sanitary Sewer Utility
- City of La Crosse – Stormsewer Utility
- City of La Crosse – Traffic Signal Fiber Optic Conduit
- City of La Crosse – Water Utility
- City of Onalaska – Sanitary Sewer Utility
- Xcel Energy – Electrical Distribution
- Xcel Energy – Natural Gas Distribution
- Wisconsin Independent Network (WIN) – Communication Line

### **Century Link– Communications**

The field contact information for CenturyLink communication facilities is as follows:

Brian Stelplugh  
333 N Front Street  
La Crosse, WI 54601  
Office Phone: (608) 796-5142  
Cellular Phone: (608) 780-1238  
[Brian.Stelplugh@centurylink.com](mailto:Brian.Stelplugh@centurylink.com)

Century Link has the following communication facilities in the project area:

Livingston Street beginning at a pedestal at 11'LS'+05, 45' LT proceeds west, crossing Rose Street at 53'RS'+25, to a pedestal at 53'RS'+12, 178' LT where it continues on private property outside of the project. There are no conflicts anticipated with these facilities.

Rose Court: Underground communication facilities beginning at the pedestal Station 11'LS'+05, 45' LT then continues north adjacent to the western side of the frontage road. This line is outside of the grading limits, no conflicts anticipated.

Rose Street beginning at a pedestal at 54'RS'+80, 101' LT from outside the right-of-way on private property. From this pedestal the line continues toward the right-of-way to 55'RS'+01, 54' LT where it turns to the north before ending at a pedestal at 56'RS'+74, 98' LT. Storm sewer will be constructed over this line however no conflicts are anticipated.

Palace Street: Beginning at a phone box at Station 12'PS'+50, 40' LT then proceeds in the north terrace to a pedestal at Station 13'PS'+66, 27.3' LT.

- Pedestal at Station 13'PS'+66, 27.3' LT is located within proposed sidewalk and will be relocated back to 32' from the centerline prior to construction.

#### West George Street

Overhead communication line between the following poles:

- Station 155'WG'+84, 43.4' RT (Century Link) pole is located near back of sidewalk. No conflict, pole will remain.
- Station 153'WG'+83, 42.2' RT pole and guy are located near back of sidewalk. No conflict pole will remain.
- Pole behind the Kwik Trip building is outside grading limits. No conflict, pole will remain.

#### George Street

Overhead communication facility crossing George Street at 13'GS'+25 on the following poles will be replaced on relocated poles prior to construction:

- Station 13'GS'+21, 36' LT, pole may be in conflict with sidewalk, a new pole will be placed at Station 13'GS'+18, 32' LT of the existing centerline prior to construction. Guys for this pole are located at:
- Station 13'GS'+27, 28.8' LT, guy is in conflict with new sidewalk and will be moved with pole prior to construction.
- Station 13'GS'+18, 43.9' LT guy is outside the work zone, no conflict.
- Station 13'GS'+25, 20.4' RT, pole is located within 2' of face of proposed curb. Pole will be relocated to 65' down N. Salem Road from its current location.

Overhead facilities between the following poles will be relocated underground prior to construction to a new location 28' right of the existing George Street centerline starting at Station 13'GS'+25, RT and proceeding along George Street to the northeast. This work is anticipated to be completed prior to construction.

- Station 13'GS'+25, 20.4' RT, pole is located within 2' of face of proposed curb. Pole will be relocated to location outside the project limits prior to construction.
- Station 14'GS'+48, 21.9' LT, pole is located in proposed sidewalk and will be removed prior to construction.
- Station 15'GS'+50, 21.9' LT, is outside the project limits. No conflict.

#### George Street (mall access road):

Underground communication line between the following pedestals:

- Station 6'GS'+46, 73.6' LT, pedestal is outside the grading limits, no conflict.
- Station 6'GS'+41, 69.1' LT, pedestal is outside the grading limits, no conflict.
- Station 7'GS'+18, 47.4' LT, pedestal outside the grading limits, no conflict.

This underground communication continues from the pedestal at 7'GS'+18, LT and crosses under East George Street at Station 7'GS'+06 then continues south past the grading limits. This underground facility may be in conflict between ped 7'GS'+18 thru the reconstructed East George Street. This line will be relocated during construction and will take 15 working days to complete.

### **Charter Communications – Communications**

The field contact information for Charter Communications communication facilities is as follows:

Perry McClellan  
1228 12th Ave South  
Onalaska, WI 54650  
Phone: (715) 370-7140  
[perry.mcclellan@charter.com](mailto:perry.mcclellan@charter.com)

Charter has overhead facilities crossing George Street at Station 13'GS'+25 located on poles at Station 13'GS'+25, 20' RT to Station 13'GS'+22, 36' LT. This overhead line will be replaced with an underground line approximately 40-inches deep beginning at 13'GS'+21, 36' LT and proceeding northerly parallel to George Street to a pole located at Station 16'GS'+00,LT. Notify Charter two weeks prior the installation of the storm sewer for them to move and replace the line during storm sewer installation. This work is estimated to take seven working days to complete.

### **City of La Crosse - Sanitary Utility**

The field contact information for the City of La Crosse Sanitary facilities is as follows:

Steve Asp  
400 LaCrosse Street  
La Crosse, WI 54601  
Office Phone: (608) 789-7324  
[asps@cityoflacrosse.org](mailto:asps@cityoflacrosse.org)

All utility relocations for the City of La Crosse are completed under this contract.

Livingston Street has an 8-inch sanitary sewer running down the center, with a manhole in the intersection with Rose Street at Station 53'RN'+15, 10' LT. This sanitary continues west from that manhole to outside the project limits. There are no conflicts with this facility.

Moore Street has the following facilities:

- 8-inch sanitary sewer main begins at a manhole at Station 11'MS'+24, 0'RT and continues east past the project limits.
- 11'MS'+24, 0' RT, is located in the pavement, adjust per "Adjust Sanitary Manhole Elev" to match final grade.
- 8-inch sanitary sewer force main is located near the middle of the eastbound lane and crosses Rose Street at approximately Station 58'RN'+20. There are no conflicts with this facility.

Palace Street has an 8-inch sanitary sewer pipe beginning with a manhole at Station 11'PS'+30, 11' RT continues to the east along the center of the existing street to past the project limits.

- 11'PS'+30, 11' RT manhole is located in the pavement. Adjust manhole as per "Adjust Sanitary Manhole Elev" to match final grade.

West George Street

An 8-inch sanitary sewer pipe along the existing centerline of West George Street with the following structures:

- Station 145'WG'+29, 0' LT manhole is located in the pavement outside the project limits. There are no conflicts with this facility.
- Station 149'WG'+89, 1' RT manhole is located in the pavement. Adjust manhole as per "Adjust Sanitary Manhole Elev" to match final grade.
- Station 151'WG'+23, 36.2' RT manhole is located in the sidewalk of the island in the intersection with East George Street. This manhole will be removed and reconstructed as part of the contract under pay item "Sanitary Sewer Manhole New-48 Inch ID". The 8-inch sanitary pipe terminates at this manhole.

A 15-inch sanitary sewer from manhole Station 150'WG'+78, 29.3' LT west to manhole Station 151'WG'+39, 161' LT.

- Station 150'WG'+78, 29.3' LT manhole is located in the proposed pavement. Adjust to match final elevation as per bid item "Adjusting Manhole Covers".
- Station 151'WG'+39, 161' LT (Station 8'GS'+41, 31.3' RT) manhole is located in the new sidewalk for George Street. Adjust to match final elevation as per bid item "Adjusting Manhole Covers".

18-inch sanitary sewer beginning at manhole at Station 151'WG'+39, 161' LT thru manhole at Station 154'WG'+06 crossing West George Street at Station 153'WG'+48 including the following structures.

- Station 151'WG'+39, 161' LT, (8'GS'+41, 31' RT) manhole is located in the sidewalk and will be removed as part of the contract work.
- Station 152'WG'+83, 82' LT, manhole is located partially in the sidewalk and will be removed as part of the contract work. A new manhole will be installed at Station 8'GS'+63, 11' LT connecting into the existing 18-inch sanitary sewer and installing new 18-inch sanitary sewer to a new manhole placed at Station 8'GS'+87, 47' RT

- Station 154'WG'+05, 78' RT, manhole is located outside the grading limits, no conflict.

#### George Street

A 8-inch sanitary sewer begins from the east along Salem Road outside of the project limits to manhole Station 13'GS'+64, 30.6' RT continuing west across George Street to manhole Station 13'GS'+56, 1.1' LT then continuing westerly to outside of the right-of-way.

- Station 13'GS'+64, 30.6' RT manhole is located in the pavement. Adjust manhole as per “Adjust Sanitary Manhole Elev” to match final grade.
- Station 13'G'+56, 1.1' LT manhole is located in the pavement. Adjust manhole as per “Adjust Sanitary Manhole Elev” to match final grade.

An 18-inch sanitary sewer begins at manhole Station 13'GS'+15, 29.1' LT proceeds west to outside of the grading limits.

- Manhole Station 13'GS'+15, 29.1' LT is located in the proposed sidewalk, Adjust manhole as per “Adjust Sanitary Manhole Elev” to match final grade.

#### Access Road

8-inch sanitary sewer runs due south from the manhole at Station 16'AR'+87, 57' RT. No conflicts.

### **City of La Crosse - Stormsewer Utility**

The field contact information for the City of La Crosse Stormsewer utility is as follows:

Steve Asp  
400 La Crosse Street  
La Crosse, WI 54601  
Phone: (608) 789-7324  
Cell: (608) 797-8673  
[asps@cityoflacrosse.org](mailto:asps@cityoflacrosse.org)

Storm sewer lift stations are located at the following locations:

- Northeast corner of Rose Street and Moore Street at Station 11'MS'+90, LT.
- Southeast corner of the Rose Street and Palace Street intersection at Station 69'RN'+50 RT.

Storm sewer not mentioned within the project reconstruction limits will be reconstructed as part of this project or not impacted, therefore no conflicts were identified.

### **City of La Crosse – Traffic Signal Fiber Optic Conduit**

The field contact information for the City of La Crosse Traffic Signals is as follows:

Matthew Gallagher  
400 La Crosse Street  
La Crosse, WI 54601  
Office Phone: (608) 789-7505  
[gallagerm@cityoflacrosse.org](mailto:gallagerm@cityoflacrosse.org)

The City of La Crosse has 2 – 2-inch conduit located in the median between Livingston Street and Palace, this conduit will be replaced as part of the project.

### **City of La Crosse - Water Utility**

The field contact information for the City of La Crosse Water facilities is as follows:

Mark Johnson  
400 LaCrosse Street  
La Crosse, WI 54601  
Office Phone: (608) 789-7588  
[johnsonm@cityoflacrosse.org](mailto:johnsonm@cityoflacrosse.org)

All utility relocations for the City of La Crosse are completed under this contract.

Livingston Street has a 6-inch water main running along the westbound lane that crosses Rose Street at Station 53'RN'+21(53'RS'+15). The following features are associated with this water main:

- Station 53'RS'+25, 51' LT, fire hydrant in grading limits adjust hydrant elevation to match final elevation as specified in “Adjust Fire Hydrant Elev”.
- Station 10'LS'+39, 4.9' LT, water valve. Outside of work limits. No conflict.
- Station 53'RS'+08, 52' LT, water valve. Outside of work limits. No conflict.

Moore Street has a 6-inch water main starting east of the project limits running down the westbound lane approximately 10' north of centerline. A secondary water pipe splits off toward Rose Street at Station 11'MS'+28, 23'RT, see Rose Street for additional information

- Station 11'MS'+26, 18.5' LT, water valve located in pavement, adjust valve to match final elevation as specified in “Adjust Water Valve Road Box Elev.”
- Station 11'MS'+27, 36' RT, water valve located in pavement, adjust valve to match final elevation as specified in “Adjust Water Valve Road Box Elev.”
- 11'MS'+30, 10' LT, adjust manhole in pavement as per “Adjust Sanitary Manhole Elev” to match final grade.
- Station 11'MS'+74, RT, Service lateral, no conflict.
- Station 11'MS'+83, LT, Service lateral, no conflict.
- Station 11'MS'+83, 22.6' LT, water valve, no conflict.
- Station 11'MS'+25, 22' LT, Relocate hydrant as specified in “Relocate Fire Hydrant” to location greater than 2' from the face of proposed curb.



Rose Street: 6-inch water main crossing at Station 58'RN'+06 (57'RS'+92) with a water valve at Station 57'RS'+66, 78' LT outside the work limits, no conflict.

Palace Street has a 6-inch water main located along the south side starting from a hydrant at Station 11'PS'+35, 39' RT then continues east and south to outside the project limits. The following items are associated with this main:

- Station 11'PS'+35, 39' RT, hydrant, no conflict
- Station 11'PS'+37, 38' RT, water valve, no conflict.
- Station 11'PS'+40, 34' RT, manhole, no conflict.
- Station 11'PS'+50, 20.5' RT proposed storm sewer inlet is located over the 6-inch water main, install insulation board over the water main per project plans as specified in “Insulation Board Polystyrene”.
- Station 12'PS'+75 RT, service lateral, no conflict.
- Station 12'PS'+99 LT, service lateral, no conflict.

West George Street

6-inch water main along the right side of STH 35/George Street from beyond the project limits to Station 151'WG'+03, 39' RT. The following items are associated with this main:

- Station 145'WG'+62, 24.7' RT, hydrant located in terrace. No conflicts anticipated.
- Station 145'WG'+66, 13.8' RT, manhole located in pavement. Adjust manhole as per “Adjust Sanitary Manhole Elev” to final grade.
- Station 145'WG'+66, 30.4' LT, service stop and lateral in sidewalk. Adjust service stop to match final elevation as specified in “Adjust Service Stop Elev.”
- Station 146'WG'+12, 29.4' LT, service stop and lateral, in terrace. Adjust service stop to match final elevation as specified in “Adjust Service Stop Elev.”
- Station 146'WG'+18, 24.7' RT, service stop and lateral located in terrace. Adjust service stop to match final elevation as specified in “Adjust Service Stop Elev.”
- Station 146'WG'+52, 29.6' RT, service stop and lateral located in sidewalk. Adjust service stop to match final elevation as specified in “Adjust Service Stop Elev.”
- Station 146'WG'+69, 30.1' LT, service stop and lateral located within integral curb. Relocate service stop as specified in “Extend Water Service” as specified in project plans.
- Station 147'WG'+34, 29.2' LT, service stop and lateral located within pavement. Relocate service stop as specified in “Extend Water Service” as specified in project plans.
- Station 147'WG'+36, 32.4' RT, service stop and lateral located in sidewalk. Adjust service stop to match final elevation as specified in “Adjust Service Stop Elev.”
- Station 147'WG'+54, 29.5' LT, service stop and lateral located within pavement. Relocate service stop as specified in “Extend Water Service” as part of contract.
- Station 147'WG'+80, 30.2' RT, service stop and lateral located within terrace. Adjust service stop to match final elevation as specified in “Adjust Service Stop Elev.”
- Station 147'WG'+96, 30.2' LT, service stop and lateral located within pavement. Relocate service stop as specified in “Extend Water Service” as part of contract.

- Station 148'WG'+21, 30.9' RT, service stop and lateral located within terrace. Adjust service stop to match final elevation as specified in "Adjust Service Stop Elev."
- Station 148'WG'+62, 31.3' RT, service stop and lateral located within terrace. Adjust service stop to match final elevation as specified in "Adjust Service Stop Elev."
- Station 149'WG'+27.6, 26.7' LT, service stop and lateral located within pavement. Relocate service stop as specified in "Extend Water Service" as part of contract.
- Station 149'WG'+27, 43' LT, storm sewer lateral constructed over water service lateral. Install insulation board over the water line per project plans as specified in "Insulation Board Polystyrene"
- Station 149'WG'+37, 31.9' RT, service stop and lateral located within terrace. Adjust service stop to match final elevation as specified in "Adjust Service Stop Elev."
- Station 149'WG'+39, 26' RT, storm sewer inlet constructed over water lateral, install insulation board over the water line per project plans as specified in "Insulation Board Polystyrene".
- Station 150'WG'+16, 17.1' RT, water valve located within pavement. Adjust valve to match final elevation as specified in "Adjust Service Stop Elev."
- Station 150'WG'+20, 21.5' RT, water valve located in pavement, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."
- Station 150'WG'+24, 30.3' RT, hydrant located within 2' of face of proposed curb. Relocate hydrant as specified in "Relocate Fire Hydrant" to at least 2' from proposed face of curb.

6-inch water main beginning at valve at Station 151'WG'+03, 39' RT and turns east until running parallel behind the existing outside curb and gutter for the southbound lanes. The following items are associated with this water main:

- Station 151'WG'+03, 39.1' RT (Station 10'GS'+41, 61.1' RT), water valve located in pavement, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."
- Station 152+34, 16.6' LT, storm sewer installation over the top of water main. Install insulation board over the water line per project plans as specified in "Insulation Board Polystyrene"
- Station 155'WG'+04, 16.8' LT. Overhead sign base in median is within 3' of surveyed water main. Install insulation board between sign base and water main per project plans as specified in "Insulation Board Polystyrene".
- Station 155'WG'+21, 20.5' LT, junction of 6-inch water main is under proposed inlet location. Install insulation board over the water line per project plans as specified in "Insulation Board Polystyrene" under the inlet, over the top of the water main.
- Station 155'WG'+55, 20.9' LT, water main is under proposed storm sewer. Install insulation board over the water line per project plans as specified in "Insulation Board Polystyrene"
- Station 155'WG'+96, 16.5' LT, water valve is located in proposed median, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."
- Station 155'WG'+85, 21.2' LT junction with 6-inch main which continues to the right with the following associated facilities:

- Station 155'WG'+70, 40.1' RT, hydrant located within proposed sidewalk. Relocate hydrant as specified in "Relocate Fire Hydrant" to at minimum 2' from proposed face of curb and outside of the proposed sidewalk.
- Station 155'WG'+84, 36.5' RT, water valve located on edge of sidewalk, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."

6-inch water main beginning a Station 155'WG'+21, 20.5' LT to the south where it exits the right-of-way at Station 155+00, 58' LT. No conflicts.

### George Street

An underground 8-inch water main running from north to south, from Station 6'GS'+65, 46' LT to Station 6'GS'+75, 32' RT crossing George Street at Station 6'GS'+71 with the following items:

- Hydrant at Station 6'GS'+59, 6.7' RT is located within the proposed pavement. Move the fire hydrant to location specified as part of the contract documents as specified in "Relocate Fire Hydrant".
- Station 6'GS'+71, 4.3' RT, water valve located in pavement, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."
- Station 6'GS'+72, 31.9' RT, water valve, no conflict.
- Station 6'GS'+72, 34.4' RT, water valve, no conflict.

An underground 6-inch water main along the eastern (right) side of George Street starting from junction with water pipe on West George Street at Station 10'GS'+41, 61' RT continuing along the RT side of George Street to past the project limits.

- Station 10'GS'+41, 61.1' RT, service stop in pavement, Adjust service stop to match final elevation as specified in "Adjust Service Stop Elev."
- Station 10'GS'+82 RT, inlet installation adjacent to water main, install insulation board over the water line per project plans as specified in "Insulation Board Polystyrene".
- Station 12'GS'+51 RT. Lateral crosses storm sewer at 1' RT in close proximity to proposed manhole construction. Install insulation board over the water line per project plans as specified in "Insulation Board Polystyrene".
- Station 13'GS'+16, 13.2' RT, water valve in proposed gutter, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."
- Station 13'GS'+17, 17.5' RT, Hydrant located within 2' of curb face. Relocate hydrant as specified in "Relocate Fire Hydrant" to at least 2' from proposed face of curb.
- Station 13'GS'+46, 27.5' RT, water valve located in pavement, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."
- Station 14'GS'+00, 19.7' RT, water valve located in pavement, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."

Junctions at:

Station 14'GS'+25, LT, 8-inch water main, no conflict.

Station 13'GS'+39, RT, 6-inch water main, no conflict.

### Access Road

6-inch water main located between hydrant at Station 13'AR'+90, 109' RT to Station 17'AR'+08, 55' RT with the following associated features:

- Station 13'AR'+88, 109' RT, hydrant located inside the grading limits, no conflict.
- Station 13'AR'+90, 108' RT, water valve located at edge of grading limits, no conflict.
- Station 16'AR'+42, 26' RT, water valve located in side slope, adjust valve to match final elevation as specified in "Adjust Water Valve Road Box Elev."

8-inch water main located outside the work zone along the right side of the propose access road from Station 17'AR'+10, RT to Station 19'AR'+64, RT joining with water main on George Street at 14'GS'+19.7, with the following associated features:

- Station 17'AR'+08, 55' RT, hydrant is outside the work limits, no conflict.
- Station 17'AR'+13, 38' RT, water valve is outside the work zone, no conflict.
- Station 17'AR'+16, 45' RT, water valve is outside the work zone, no conflict.

### **City of Onalaska - Sanitary Utility**

The field contact information for the City of Onalaska sanitary facilities is as follows:

Kevin Schubert  
415 Main Street  
Onalaska, WI 54650  
Phone: (608) 781-9537  
Cell: (608) 769-6061  
[kschubert@cityofonalaska.com](mailto:kschubert@cityofonalaska.com)

### West George Street

A 30-inch sanitary sewer begins at manhole Station 148'WG'+45 continues north thru the following structures to manhole at 10'GS'+61, 11.4' RT.

- Station 148'WG'+45, 40.8' LT manhole is located in the integral curb, near the curb face and will remain in place. The manhole will be reconstructed under the contract, by removing the cone and spinning it until the opening falls within the flag of the integral curb. The manhole will have a special watertight casting and chimney seal to prevent infiltration. See contract documents for details.
- Inlets at Station 148'WG'+99 LT and Station 149'WG'+39 LT will be located over the 30-inch main will remain in place. Based on record drawings the top of the pipe will be 2.0 feet below the bottom of the proposed inlets. No conflict.
- Station 150'WG'+78, 29.3' LT manhole is located in the pavement. Adjust to match final elevation as per bid item "Adjusting Manhole Covers".
- Station 151'WG'+30, 32.4' RT signal pole base is over the top of 30-inch sanitary. Based as-built drawings the top of the pipe will be 2 feet below the bottom of the 7' deep signal base, as well as offset by 1.8', no conflict.
- Station 10'GS'+61, 11.4' RT manhole in pavement. Adjust as described under George Street facilities.

George Street has the following sanitary sewer facilities:

A 30-inch sanitary sewer pipe beginning at the intersection of West George Street manhole at Station 10'GS+61, 11.4' RT continuing along East George street to manhole Station 14'G'+16, 11.3' LT then continues to manhole Station 16'GS'+45, 6.7' LT.

- Station 10'GS'+61, 11.4' RT, manhole is located in the pavement. Adjust to match final elevation as per bid item "Adjusting Manhole Covers".
- Station 10'GS'+84, 1' LT, a new storm sewer pipe will be installed over the 30-inch sanitary pipe. Based on as-built drawings the distance between the pipes will be 2.5', no conflict. Install insulation as specified in contract documents.
- Station 14'GS'+16, 11.3' LT, manhole is located in the pavement. Adjust to match final elevation as per bid item "Adjusting Manhole Covers".
- Station 14'GS'+79, 9.4' LT, a new storm sewer pipe will be installed over the 30-inch sanitary pipe. Based on as-built drawings the distance between the pipes will be 2.5', no conflict. Install insulation as specified in contract documents.
- Station 16'GS'+45, 6.7' LT manhole is outside the project limits. No conflict.

### **Xcel Energy – Electrical Distribution**

The field contact information for Xcel Energies electric facilities is as follows:

Scott Roberts  
3215 Commerce Street  
La Crosse, WI 54603  
Office Phone: (608) 789-3625  
Cellular Phone: (608) 518-0806  
[scott.w.roberts@xcelenergy.com](mailto:scott.w.roberts@xcelenergy.com)

Xcel has several electrical distribution lines listed here that require removal or relocation during construction. Xcel requires notification ahead of the desired move date at least three weeks plus the working days listed for the item of work.

### **Livingston Street**

- Underground electric line servicing lighting cabinet from pole at 11'LS'+09, LT
- Station 10'LS'+70, 24' LT, lighting cabinet behind curb. No conflict.
- Station 11'LS'+09, 30' LT pole with guy at 10'LS'+99 32' LT behind sidewalk. No conflict.

Rose Street has an underground single phase primary electric in a 4-inch conduit starting at a pole at Station 11'LS'+09, 30' LT crossing Rose Street at Station 53'RN'+39 (Station 53'RS'+24). Once across Rose Street, the primary electric facility continues north behind the curb to the 50kva transformer. From the transformer there are several underground service lines running along the west side of the right-of-way to the north to serve a residential house, boat docks and the Welcome to La Crosse statue at Station 61'RS'+55, 75' LT. This underground line will remain in place during construction. The following features are associated with this underground facility:

- 50kva transformer at Station 55'RS'+00, 55' LT will be adjusted to match final grade during construction. Work will be take one working day and will be completed upon establishment of final grade.

- Primary electric line crossing proposed storm sewer at Station 56'RS'+40 LT, Station 59'RS'+26 LT and Station 61'RS'+30 LT, no conflicts anticipated due to proposed storm sewer grades and locations being approximately the same as the existing.
- Station 66'RS'+74, 100' LT pole is outside the work zone. No conflict.

Moore Street has an overhead distribution facility along the left side behind the curb between the following poles:

- Station 11'MS'+03, 27' LT, guy wire behind curb, no conflict.
- Station 11'MS'+12, 26' LT, pole will remain behind curb, no conflict.
- Station 11'MS'+91, 22.4' LT, guy wire will remain behind curb, no conflict.
- Station 12'MS'+03, 21.8' LT, pole will remain behind curb, no conflict.
- Station 12'MS'+04, 30.6' LT, guy wire will remain behind curb, no conflict.

Palace Street has the follow electric distribution facilities:

Underground electrical service from signal cabinet at Station 10'PS'+99, 61.3' LT to a pole 11'PS'+83 LT. Signal cabinet and underground facility will be in conflict with new roadway and will be reconstructed with the new signals.

- Station 11'PS'+75 & Station 11'PS'+ 83, 25.8' LT, pole and guy are located in proposed terrace and can remain. No conflict.
- Station 13'PS'+68, 27.7' LT, pole is located within proposed sidewalk and will be moved to 34' LT prior to construction.

Overhead service line between pole at Station 11'PS'+83, LT to pole at Station 13'PS'+68, 27' LT with guy at Station 13'PS'+53, 27.3' LT. Pole and guy are both in conflict with new sidewalk construction and will be relocated to behind the sidewalk at 34' LT prior to construction.

West George Street has overhead distribution facilities at the following locations:

- Station 150'WS'+08, 37.8' RT. Light pole is in conflict with new curb ramp and will be moved 10' east during construction. One working day required to complete the work.

Overhead electric distribution facilities between the following poles will be removed:

- Station 151'WG'+97 RT light pole will be removed during construction. One working day required to complete the work.
- Station 151'WG'+86, 66.1' RT, guy will be removed with light pole
- Station 151'WG'+94, 59.6' RT, guy will be removed with light pole
- Station 153'WG'+82, 42.5' RT pole will remain. Xcel will remove their facilities from this pole during construction upon completion of their installation of underground work. One working day required to complete the work.
- Station 155'WG'+85 RT, pole is behind the sidewalk and will remain, no conflict.
- Station 155'WG'+84, 43.5' RT, pole is outside the grading limits and will remain. No conflict.

- Station 155'WG'+86.8, 44.4' RT, guy is outside the grading limits and will remain. No conflict.

Underground electrical service from pole at 155'WG'+84, RT to signal cabinet at Station 157'WG'+15, 71.8' RT. Signal cabinet and underground facility will be in conflict with new roadway and will be relocated in conjunction with the new signals during construction.

George Street access road has under underground electric facilities at the following locations:

- Underground electric distribution facility starting outside the project limits on private property to Station 5'GS'+65.7, 5.8' LT to Station 6'GS'+41.6, 0'RT, to Station 6'GS'+83, 32.5' RT then continues southerly to outside the right-of-way. This facility will be in conflict as there will be cuts between 2' to 4' with roadway grading. Xcel will lower this line during construction. Xcel will lower this line during construction upon removal of the pavement. Five working days will be required to complete this work.
- Underground electric distribution begins at a transformer outside the grading limits at Station 7'GS'+10, 45.4' LT then continues southerly crossing George Street access road at Station 7'GS'+06 then continues south outside the grading limits. Cut of approximately 2' over this underground line. This work will be completed within the same five working days of the previously listed work.

George Street has electrical distribution facilities at the following locations:

Overhead crossing at Station 11'GS'+53 between the following poles:

- Station 10'GS'+56, 47.8' LT pole and guys are in conflict with new sidewalk construction.
- Station 11'GS'+68, 14.2' RT is in conflict with new curb.

Poles are in conflict with construction and will be removed during construction. One working day is required to complete this work.

Overhead crossing at Station 13'GS'+23 between the following poles:

- Station 13'GS'+25, 20.4' RT, pole with light mast arm is located within 2' of face of proposed curb. Pole will be moved to outside the project limits along N. Salem Ave prior to construction.
- Station 13'GS'+21, 36' LT, Century Link pole may be in conflict with sidewalk and will be moved prior to construction. Guys for this pole are located at:
  - Station 13'GS'+27, 28.8' LT, in conflict with new sidewalk and will be moved with pole prior to construction.
  - Station 13'GS'+18, 43.9' LT, guy is located outside the grading limits, no conflict.

#### Access Road

Underground electrical distribution line parallel to Rose Street beginning at a transformer Station 91'RN'+63, 84.1 RT then continuing parallel to Rose Street toward the north before turning eastward back onto private property. This underground line will be crossed by the

proposed water main and storm sewer work. Prior to excavating in this area the line will need to be de-energized. Two days is required to de-energize this line.

### **Xcel Energy – Natural Gas**

The field contact information for Xcel Energies natural gas facilities is as follows:

Ed Przytarski  
3215 Commerce Street  
La Crosse, WI 54603  
Office Phone: (608) 789-3631  
Cellular Phone: (608) 780-0151  
[edward.r.przytarski@xcelenergy.com](mailto:edward.r.przytarski@xcelenergy.com)

Rose Street has a 2-inch plastic natural gas pipe running along the LT side from the beginning of the project to Station 56'RS'+20. No conflict.

Livingston Street has a 2-inch plastic natural gas pipe which runs along the RT side behind the curb and gutter crossing Rose Street at 53'RN'+54(53'RS'+44). No conflict.

Palace Street has a 2-inch plastic natural gas pipe crossing at Station 12'PS'+40, RT crossing to Station 12'PS'+45, LT where continues behind the curb and gutter to the project limits. No. conflicts.

Moore Street has a 2-inch plastic underground natural gas pipe 22' right of reference line starting at Station 12'MS'+02, 22' RT that continues past end of the grading limits. This main has a lateral connecting to a gas meter at Station 11'MS'+58, 31' LT and a second lateral at Station 12'MS'+02, RT. No conflicts, gas line will remain.

### Access Road

#### *Stage 1A*

Xcel will install a new 2-inch plastic gas main along the right side of the Access Road underneath the terrace between Station 14'AR'+50 to the intersection with George Street, Notify Xcel five working days after storm sewer installation and prior to final subgrade staking for Access road. This work will take approximately three working days.

### George Street:

#### *Stage 1B*

Notify Xcel five working days prior to switching traffic to establish Stage 1B work zone. During construction, Xcel will place a new 2-inch to 4-inch plastic gas main from Station 145'WG'+00 LT, to Station 5'WGS'+50 RT, under the proposed sidewalk. Approximately ten working days is required to complete this work. See also W. George Street for additional work under Stage 1B.



The existing 4-inch underground plastic natural gas main beginning at Station 6'GS'+54, 69' LT to crossing George Street at Station 6'GS'+88 to Station 6'GS'+92, 21.5' RT to outside the project limits will be purged and placed out of service upon completion of the Stage 1B work for Xcel.

#### *Stage 1C*

During Stage 1C construction, Xcel will install a new 2-inch plastic gas main pipe on George Street between the Access Road and N. Salem Road. Notify Xcel after completion of storm sewer in this area and at least seven working days prior to beginning subgrade staking. This work will take approximately two working days.

#### *Stage 2A*

During construction, Xcel will install a new 2-inch plastic gas main pipe along the right side of George Street between W. George St. and North Salem Road with a new crossing of George at approximately Station 11'GS'+00. Notify Xcel after completion of Stage 2A storm sewer and at least ten working days prior to subgrade staking. This work will take approximately three working days.

#### West George Street (STH 35)

##### *Stage 1B*

During Stage 1B construction, Xcel will bore under the roadway a new 4-inch plastic gas line at approximately Station 156'WG'+00. Notify Xcel five working days prior to switching traffic to establish work zone for Stage 1B. This work will take approximately two working days.

During Stage 1B construction, a new 2-inch plastic gas main crossing will be installed at approximately Station 149'WG'+75 (Campbell Street). Upon completion of this connection to a the new line installed described under the previously described Stage 1B George Street work, the existing gas line between Station 145'WG'+00 to Station 148'WG'+00 LT will be left in place and purged and no longer be in service. This work will take approximately two working days.

The following existing gas lines will be purged and placed out of service upon completion of the Stage 1B work for Xcel:

- An existing 4-inch steel underground natural gas main enters the project from the east (RT) along Campbell street and crosses George Street at Station 149'WG'+81 RT to Station 149'WG'+82, 28' LT where the line becomes a 4-inch plastic natural gas pipe and turns to the north until Station 150'WG'+93, 25' LT where it turns west and crosses the proposed mall access road at Station 8'GS'+13 until joining the 4-inch plastic line along the George Street (mall access) at Station 6'GS'+78, 37' LT.
- An existing 1-inch plastic natural gas service line running along the LT side from Station 154'WG'+85 to Station 155'WG'+92 where it crosses the eastbound travel lanes.

- An existing 2-inch plastic underground natural gas pipe is located approximately 25' left beginning south of the projects limits to Station 148'WG'+18 where it terminates. There are numerous service laterals off of this gas line.
- An existing 1-1/2 inch natural gas pipe running behind the southbound curb from the crossing at Station 154'WG'+85 to Station 155'WG'+55 where it leaves the right-of-way.
- An existing 2-inch plastic natural gas main enters the right-of-way from the south at Station 155'WG'+91, 63.5' LT crosses to the median to Station 155+91, 21.6' LT then proceeds south to meet gas valve for 1-inch steel natural gas pipe at Station 154'WG'+85.7, 14.3' LT.

### *Stage 2B*

During Stage 2B construction, beginning at Station 145'WG'+00 a new 2-inch gas line will be constructed to connect to new line previously installed in Stage 2A on George Street and continue to crossing of W. George Street installed during Stage 1B at approximately Station 156'WG'+00. This line will be installed underneath the proposed sidewalk during Stage 2B construction, notify Xcel's field representative five working days before switching traffic to establish work zone for Stage 2B. This work will take approximately ten working days.

The following existing gas facilities will be purged and placed out of service completing the Stage 2B work for Xcel:

- An existing 2-inch plastic underground natural gas pipe is located approximately 25' right beginning south of the projects limits to Station 149'WG'+91.
- An existing 1-inch plastic underground natural gas lateral service line begins at the Campbell Street and continues north to Station 151'WG'+01, 50' RT.
- An existing 1-inch steel natural gas pipe crosses at Station 154'WG'+85.
  - Gas valve at Station 154'WG'+86, 35.7' RT, in proposed sidewalk.
  - Gas valve at Station 154'WG'+85.7, 14.3' LT, in median.

### **Wisconsin Independent Network (WIN) – Communications**

The field contact for the WIN utility is:

John Louis  
 800 Wisconsin St, Bld D02  
 Suite 219  
 Eau Claire, WI  
 Phone: (715) 838-4012  
 Cell: (715) 864-2918  
[jlouis@wins.net](mailto:jlouis@wins.net)

WIN has an underground fiber optic facility starting along the right side of Rose Street prior to Livingston Street approximately 10' behind the northbound curb, then crosses Livingston Street at 10'LS'+40 to 53'RS'+91, 38' RT where it then turns west to cross northbound Rose Street to a manhole in the median at 53'RN'+92, 2' LT. From this manhole, the underground communication facility continues north inside 2 x 2-inch conduit in the median to a manhole at 69'RN'+28, 3.6' LT. The fiber optic line (no longer in conduit) then turns east to connect to a manhole at 69'RN'+26, 53.6'RT. This entire facility in the median between Livingston Street and Palace Street will be in conflict with the new roadway and will be relocated prior to construction. This new line will be placed 47'RT from the existing centerline of the Rose Street NB roadway at Livingston to 60' RT from the existing Rose Street NB roadway centerline line at Moore Street and remains at 60' RT from the existing Rose Street NB centerline to a new manhole place in the SW quadrant at Palace Street at approximately Station 69'RN'+25, 80' RT.

From the manhole at Station 69'RN'+25, 80' RT the fiber optic line continues north, crossing Palace Street at 11'PS'+00, where it continues approximately 5' inside the eastern right-of-way of northbound Rose Street. The facility remains approximately 5' inside the right-of-way to the IH90 Interchange crossing West George Street at 157'WG'+32. The following were investigated for potential conflict but WIN identified their facility as being clear of work, notify WIN five working days prior to excavating in the following areas to allow them to be on site and assist in locating their facilities.

- Station 85'RN'+19, 57' RT, 6' deep light pole base located near the 6' deep fiber optic. Fiber line was located and determined to be 2' clear from the edge of the light pole base, no conflict.
- Station 87'RN'+10, 57' RT, 7' deep light pole base will be approximately 6.5' below existing ground and will be located over the top of the existing fiber at 8' depth. 1.5' of clearance is anticipated from the bottom of the signal pole base to the fiber, no conflict anticipated.
- Storm sewer at Station 93'RN'+14, 62' RT will pass under the fiber optic line that is approximately 3' deep. No conflict.

### **1071-06-83**

The following utilities have facilities with the project limits:

- City of LaCrosse – Stormwater
- City of LaCrosse – Water
- City of Onalaska – Sanitary Sewer
- Wisconsin Independent Network (WIN) - Communications
- Xcel Energy – Electrical Distribution

**City of La Crosse Stormwater Utility**

The field contact for the City of LaCrosse Stormwater utility is:

Steve Asp  
400 La Crosse Street  
La Crosse, WI 54601  
Phone: (608) 789-7324  
Cell: (608) 797-8673  
[asps@cityoflacrosse.org](mailto:asps@cityoflacrosse.org)

A 48-inch concrete storm sewer pipe crosses Rose Street at from manhole at Station 99'RN'+25, 102 RT an outfall at Station 97'RN'+96, 127' LT. No conflict anticipated.

**City of La Crosse - Water Utility**

The field contact information for the City of La Crosse Water facilities is as follows:

Mark Johnson  
400 LaCrosse Street  
La Crosse, WI 54601  
Office Phone: (608) 789-7588  
[johnsonm@cityoflacrosse.org](mailto:johnsonm@cityoflacrosse.org)

24-inch water main from water valve at Station 125'RS'+93, 100.4' LT to water valve at Station 126'RS'+21, 93.3' LT. No conflict.

A 24-inch water main crosses Rose Street from Station 129'RN'+74 RT to Station 129'RS'+80 LT. No conflict.

A 24-inch water main crossing at Station 20'GR'+36 connecting to a hydrant at Station 20'GR'+68, 112' RT outside of the grading limits. No conflict.

**City of Onalaska - Sanitary Sewer Utility**

The field contact information for City of Onalaska sanitary sewer facilities is as follows:

Kevin Schubert  
415 Main Street  
Onalaska, WI 54650  
Phone: (608) 781-9537  
Cell: (608) 769-6061  
[kschubert@cityofonalaska.com](mailto:kschubert@cityofonalaska.com)

A 24-inch sanitary sewer pipe starting from a manhole at Station 200'F'+42, 156' RT where it proceeds north, crossing under the eastbound on-ramp to IH 94, to a manhole at Station 202'G'+56, 42' RT. From there it continues north to a manhole at Station 120'RN'+52, 111' RT then crosses Rose Street at Station 122'RS'+78 to a manhole at Station 126'RS'+07, 131'

LT. A portion of this line under the G-ramp will be replaced as part of this contract, see project plans for exact location.

- Station 200'F'+42, 156' RT, manhole located outside of grading limits, no conflict.
- Station 202'G'+56, 42' RT manhole is located in large fill and will be removed as part of this contract.
- Station 120'RN'+52, 111' RT, manhole is outside of grading limits, no conflict.
- Station 126'RS'+07, 131' LT, manhole is outside of grading limits, no conflict.

### **Xcel Energy – Electrical Distribution**

The field contact information for Xcel Energies electric distribution facilities is as follows:

Scott Roberts  
3215 Commerce Street  
La Crosse, WI 54603  
Office Phone: (608) 789-3625  
Cellular Phone: (608) 518-0806  
[scott.w.roberts@xcelenergy.com](mailto:scott.w.roberts@xcelenergy.com)

Xcel has several electrical distribution lines listed here that require removal or relocation during construction. Xcel requires notification ahead of the desired move date at least three weeks plus the working days listed for the item of work.

Overhead electric distribution line crossing at Station 127'RN'+75, no conflict.

- Station 127'RN'+97, 169' RT pole is outside of grading limits, no conflicts.
- Station 127'RS'+74, 133' LT, pole is outside of grading limits, no conflict.
- Station 20'GR'+29, 205' RT, Guy pole & guys are outside of grading limits, no conflict.
- Station 128'RS'+37, 5' LT light pole with overhead electrical service from to pole at Station 129'RS'+39, 78' LT. Both are in conflict with new grading and can be removed once new lighting is installed as part of the project. Notify Xcel three weeks prior to required removal of poles. Work will take one working day to complete.
- Station 129'RS'+39, 78' LT, pole is outside of grading limits and will remain. No conflict.

Station 20'GR'+25, 20.2' LT, power pole with light mast arm, pole and mast arm will remain, no conflict.

Overhead electric distribution line crossing at Station 20'GR'+33 between the following poles is not in conflict and will remain:

- Station 20'GR'+17, 84' LT pole is located outside of grading limits and will remain. No conflict.
- Station 20'GR'+68, 112' RT pole is outside the grading limits and will remain. No conflict.

An underground service line to the Weather station at the overpass bridge for I90 EB over Rose Street NB will be installed after plans have been submitted but prior to construction for this project. Contact WisDOT to receive copy of work plans for this facility.

**Wisconsin Independent Network (WIN) – Communications**

The field contact for the WIN utility is:

John Louis  
800 Wisconsin St, Bld D02  
Suite 219  
Eau Claire, WI  
Phone: (715) 838-4012  
Cell: (715) 864-2918  
[jlouis@wins.net](mailto:jlouis@wins.net)

WIN has an underground fiber optic facility beginning from the south approximately 5' inside the eastern right-of-way of northbound Rose Street. The facility remains approximately 5' inside the right-of-way to the IH90 Interchange crossing where it turns east to follow I90 right-of-way. There are no conflicts with these facilities.

**7190-03-72**

All utilities within the construction limits of Project 7190-03-72 were coordinated under project ID 7190-03-71.

Additional detailed information regarding the location of vacated, relocated, and/or removed utility facilities is available in the work plan provided by each utility company or on the permits issued to them. View these documents at the region WisDOT office during normal working hours.

The following utilities have facilities with the project limits:

- CenturyLink – Communications Line
- Charter Communication - Cable
- Xcel Energy – Electrical Distribution
- Xcel Energy – Electrical Transmission

**CenturyLink – Communications Line**

The field contact information for CenturyLink communication facilities is as follows:

Brian Stelplugh  
333 N Front Street  
La Crosse, WI 54601  
Office Phone: (608) 796-5142  
Cellular Phone: (608) 780-1238  
[Brian.Stelplugh@centurylink.com](mailto:Brian.Stelplugh@centurylink.com)

Station 137'RN'+50 RT – Station 141'RN'+00 LT Rose Street (Under BNSF Overpass):

There are two underground copper cables along the north side of the railroad. No conflict.

Station 141'RN'+00 RT – Station 143'RN'+50 RT Rose Street: The existing underground facility at this location is near the grading limits along the northbound roadway. No conflicts.

Pole and pedestal at 143'RN'+50 RT: These are outside of the grading limits and will remain, no conflict.

**Charter Communications – Communications**

The field contact information for Charter Communications communication facilities is as follows:

Perry McClellan  
1228 12th Ave South  
Onalaska, WI 54650  
Phone: (715) 370-7140  
[perry.mcclellan@charter.com](mailto:perry.mcclellan@charter.com)

Station 142'RN'+00 RT – Station 147'RN'+20 RT Rose Street: There is an underground communications line with pedestal at Station 143'RN'+00. This line is located outside the grading limits, no conflict.

**Xcel Energy – Electrical Distribution**

The field contact information for Xcel Energies electric distribution facilities is as follows:

Scott Roberts  
3215 Commerce Street  
La Crosse, WI 54603  
Office Phone: (608) 789-3625  
Cellular Phone: (608) 518-0806  
[scott.w.roberts@xcelenergy.com](mailto:scott.w.roberts@xcelenergy.com)

Station 138'RN'+65 RT Rose Street pole & guys: The utility pole and guy anchors are outside of the projects grading limits. No conflict.

Station 141'RN'+25 RT Rose Street pole & guy: The utility pole and guy are outside of the grading limits and will remain. No conflict.

Station 142'RN'+80 RT Rose Street pole & guy: The utility pole and guy are outside of the grading limits and will remain. No conflict.

Station 144'RN'+90 Rose Street Overhead Crossing: The crossing has the required 10' clearance from light pole at 145'RN'+02 as specified by Xcel for its overhead facility. No conflict.

Station 145'RN'+00 RT Rose Street pole & guy: The existing utility pole & guy is outside the grading limits, no conflict.

#### **Xcel Energy – Electrical Transmission**

The field contact information for Xcel Energy's electric transmission facilities is as follows:

Bruce Zemke  
414 Nicollet Mall  
Minneapolis, MN 55401  
Office Phone: (612) 330-7815  
Cellular Phone: (651) 214-2620  
[bruce.m.zemke@xcelenergy.com](mailto:bruce.m.zemke@xcelenergy.com)

Station 138'RN'+35 RT – Station 140'RS'+30 LT Rose Street Crossing: The existing overhead 69kV electrical transmission line in this location is within the construction limits of proposed improvements. Poles are outside of the grading limits and will remain. Conflicts of the required clearances of 20 feet for booms and cranes and 10 feet for unqualified workers are anticipated for structure construction. If work is required inside of the clearances, the lines must be de-energized.

The following requirements will have to be adhered too to receive the outages:

- Restoration time: System Operations will require a set time (normally two hours) for the contractor requesting the outage to vacate the area inside the 15 foot clear zone if it's deemed the line needs to be put back in service due to unplanned or emergency situations including weather.
- Minimum lead time: Field Operations would like a four-week lead time for all outage request submitted. This will improve the chances of obtaining the outage approval as requested and provide time for field operations to schedule a crew for grounding the conductor.



Please contact Bruce Zemke at (612) 330-7815 or [bruce.m.zemke@xcelenergy.com](mailto:bruce.m.zemke@xcelenergy.com) for specified requirements prior to submitting outage requests. Outage request should be submitted to Teri Smeltzer at (715) 737-1085 or e-mail her at [teri.l.smeltzer@xcelenergy.com](mailto:teri.l.smeltzer@xcelenergy.com). The minimum lead time for requesting a 69kv transmission line to be taken out of service and grounded is five business days prior to the outage date. Please be aware that in the event of inclement weather conditions and unplanned/emergency work, it may not be possible to meet the requestors desired outage date. Therefore, it is suggested that the requestor provide as much notice as possible to Xcel Energy prior to the anticipated outage date in an attempt to accommodate such request.

## **17. Notice to Contractor – Contamination Beyond Construction Limits.**

The department completed testing for soil and ground water contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following site(s):

1. 1133 West George Street, La Crosse, WI – approximately Station 151+75 WG to 154+60 WG from 50 feet RT of centerline to 270 feet RT of centerline.
2. 2308 Rose Street, La Crosse, WI – approximately Station 70+75 RN to 73+50 RN from 66 feet RT of centerline to 300 feet RT of centerline.

The contaminated soils at the above sites are expected to be beyond the excavation limits necessary to complete the work under this project. Control construction operations at these locations to ensure that they do not extend beyond the excavation limits indicated in the plans. If contaminated soils are encountered at these sites or elsewhere on the project during excavation, terminate excavation in the area and notify the engineer.

The Hazardous Materials Report is available by contacting: Anthony VanderWielen, (608)789-7878.  
107-100 (20050901)

## **18. Health and Safety Requirements for Workers Remediating Petroleum Contamination.**

*Add the following to standard spec 107.1(2):*

Soil contamination with gasoline, diesel fuel, fuel oil, or other petroleum related products may be encountered during excavation activities. Prepare a site specific Health and Safety Plan complying with the Occupational Safety and Health Administration (OSHA) standard for Hazardous Waste Operation and Emergency Response (HAZWOPER), 29 CFR 1910.120.

All site workers taking part in remediation activities or who will have the reasonable probability of exposure of safety or health hazards associated with the hazardous material will have completed Health and Safety training that meets OSHA requirements. Prior to the start of remediation work, submit to the engineer a site specific Health and Safety Plan, and written verification that workers will have completed up-to-date OSHA training.

Develop, delineate, and enforce the health and safety exclusions zones for each contaminated site location pursuant to 29 CFR 1910.120.  
107-115 (20150630)

**19. Removing Buildings Parcel 29, Item 204.0235.01; Parcel 33, Item 204.0235.02; Parcel 34, Item 204.0235.03.**

This special provision describes Removing Buildings according to the pertinent provisions of standard spec 204 and as hereinafter provided.

Work under this contract includes razing and removing buildings, disposing of all material and debris, removing all miscellaneous land improvements, if any, placing compacted backfill in the exposed basements and openings resulting from the removal of the buildings, and grading the vacant site. Abandon the present sanitary sewer or septic system and water systems according to current statutes, ordinances, and regulations.

*Amend standard spec 204.3.2.3 to allow removal of buildings, by relocation, intact to a new site beyond the right-of-way limits.*

If the contractor elects to move structure(s) from the parcels but fails to remove the structure(s) from the premises by the time set forth earlier in this contract for completion, the contractor will forfeit any and all rights, title and interest in the structure(s), and the structure(s) and any salvageable materials remaining on the premises will revert to the ownership and control of the department to dispose of as it sees fit; but nothing will in any way release the contractor from any of the contractor's duties, obligations or liability under the terms and provisions of this contract. The contractor shall not sell, nor in any manner transfer title of the structure(s) to a third party until the structure(s) is removed from the right-of-way limits.

The department has no knowledge regarding the condition of the structure(s) or their related components. The department cannot and does not warrant the condition of the structure(s) or their components, nor does the department warrant, guarantee, or imply the suitability of the structure(s) for moving.

Raze and remove the buildings and backfill the resulting exposed openings at the following locations:

Project	Parcel	Type of Building	Address
1071-06-82	29	Single Story retail shop.	2552 Rose Street La Crosse, WI 54603

Parcel 29 removal includes 24,568 square foot building with frame construction and stucco and vinyl exterior. It has a composition shingle roof. Removal of sign base, parking lot light, and parking lot lamp post are included in this item. The sign will be removed by others. Building removal operations, or the removal of any other elements on this parcel outside the proposed sidewalk shall not occur until after May 15, 2017.

Project	Parcel	Type of Building	Address
1071-06-82	33	Single Story restaurant.	1140 W. George St La Crosse, WI 54603

Parcel 33 removal includes 4,735 square foot building with slab-on-grade masonry construction with metal, standing-seem, hip roof with parapet equipment wall. The exterior is sided with brick. The interior includes a walk in refrigerator freezer, commercial grade clay tile floor, and commercial grade HVAC. Building removal operations, or the removal or disturbance of other elements of this parcel impacting the operation of the business shall not occur until after February 28, 2017.

1071-06-82	34	Single story commercial trash collection shelter.	1140 W. George St La Crosse, WI 54603
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Parcel 34 removal includes a 1200 square foot metal pole building and an 820 square foot waste station. The pole building is steel frame with slab on grade construction and has lighting. The waste station construction is split face concrete masonry units with top tier metal capping. It includes conduit and lighting, and 140 square foot cold storage unit behind a steel door. Perform the following:

1. Remove the structures from the premises. This includes all basement walls and floor, slabs and other outdoor fixtures or improvements, clean and remove all debris from the site. The exposed openings for the basement will be backfilled with sound earth and compacted, graded, seeded and mulched, as well as any other disturbed areas.
2. Remove and dispose of all asbestos and hazardous materials in compliance to current local, state, and federal guidelines and laws, including asbestos not discovered in the pre-razing inspections included in these specifications. The most recent edition of any applicable standard, code, or regulation will be in effect. Where conflict among the requirements of these specifications occurs, follow the most stringent. Only a qualified and certified asbestos removal contractor will perform the removal of asbestos. If not licensed to remove asbestos, employ a certified subcontractor to perform this work. An inspection report for each building indicating the presence or absence of asbestos in exposed positions of the structure is included in this proposal, unless otherwise indicated.
3. The successful bidder will arrange for the public and/or private utility companies to disconnect their services and remove meters. Make arrangements with the local plumbing inspectors to inspect the abandonment of well and septic systems and/or sewer and water laterals. According to state laws and administrative rules, licensed well driller and pump installer contractors will accomplish all water well abandonment.

4. Conduct all demolition, removal, and backfilling operations in such a manner that all conflicts with vehicular traffic on adjacent streets and highways are avoided. Use barricades or fencing, or both, when needed to guarantee the safety of pedestrians or motorists.
5. Definite notice of intentions to start work, and before backfilling operations of the exposed basement notify engineer to inspect the site
6. Upon completion of the backfilling operations of the exposed basements and other openings, fine-grade and shape the area.

### **Underground Fuel Storage Tanks**

The successful bidder will be supplied with a copy of the Environmental Site Assessment for each parcel for which an assessment was deemed necessary or for sites on which underground storage tanks were removed. A private consultant will remove any tanks discovered during the Environmental Site Assessment before razing activities begin.

If tanks are discovered on the site during razing that were not removed as part of or in the absence of an Environmental Site Assessment, immediately cease razing operations on the site and contact the department. The department will hire a private consultant to remove the discovered tanks.

### **Asbestos Removal**

Comply with the requirements of the Environmental Protection Agency (EPA) regulations, National Emission Standards for Asbestos, the Occupational, Safety and Health Administration (OSHA) regulations on asbestos removal, all applicable Wisconsin Department of Natural Resources (DNR) regulations, and local government regulations. The most recent editions of all applicable standards, codes, or regulations will be in effect. Where conflict among the requirements of these specifications occurs, follow the most stringent. In addition, the following requirements apply to this work:

Any person performing asbestos abatement must comply with all training and certification requirements, rules, regulations, and laws of the State of Wisconsin regarding asbestos removal.

Properly notify the Department of Natural Resources and the Department of Health and Social Services at least ten working days prior to starting the project.

Asbestos removal is considered incidental to razing and removing buildings and will not be measured for payment separately.

**Disposal of Materials**

*Supplement standard spec 104.8 with the following:*

All salvage removed from the buildings, including fixtures and appurtenances such as screens and storm sash, will be the property of the contractor and will be entirely removed from the premises. Clear the entire premises of all decomposable and combustible refuse, debris, and materials resulting from the removal of the buildings. Upon completion of the work, leave the entire premises in a neat condition. Do not deposit or leave decomposable or combustible refuse, debris, or materials resulting from the removal of the buildings on any state-owned lands, or right-of-way of any highways, including any exposed openings resulting from razing activities.

All living trees, shrubs, evergreens and other vegetation will remain the department's property. Use care to preserve as much of the landscaping as is reasonably possible.

**Custody of the Building**

Upon written order by the department representative to commence work, the buildings and surrounding state-owned property will be under the custody of the contractor. Nothing in this proposal will be interpreted as setting forth the condition of any building or the appurtenances thereto. Except as otherwise provided herein, it is to be understood that the department accepts no responsibility for the protection of buildings and appurtenances against damages sustained either prior to or subsequent to the time of the letting of the work under this contract. The contractor shall take such measures as are necessary to safeguard the public from damages or injury.

While the buildings are in the contractor's custody, keep the buildings in a closed condition. Do not remove doors or windows from the buildings until the actual day of razing, unless all openings are sealed as approved by the engineer. Only the contractor and his subcontractor shall salvage building components. At all times, do not allow the general public in the buildings or on the grounds.

**Removal and Razing Operations**

Remove all concrete steps, concrete sidewalks, and concrete slabs from the premises.

In compliance with the ordinances and permit requirements of the municipality in which the buildings are situated and in the presence of the local governing unit, a certified well driller and pump installer will seal or abandon all sewer and water lines and/or wells.

Until standing walls have been razed, the walls shall be reasonably and safely braced at all times to ensure complete safety during the wrecking operations.

Break, roll, and remove all basement walls, floors, and footings in their entirety from the site.

Dispose of all non-hazardous demolition waste in a landfill licensed or approved in writing by the Department of Natural Resources and according to NR500, Wisconsin Administrative Code. Failure to properly dispose of solid waste is a violation of State Solid Waste Statutes and Administrative code and is subject to issuance of a citation under Wisconsin Statute 287.81(2)(a).

Remove all hazardous materials from the site, **only** after proper notification and compliance with the department requirements of the Wisconsin Department of Natural Resources and local government regulations.

Remove all material from the premises in a safe manner and in compliance with all applicable laws and ordinances. Do not disturb adjacent property.

### **Backfill**

Prior to any backfill operations, notify the engineer to inspect all exposed areas resulting from the razing and removal operations. Ensure that all exposed basements and openings are free of all refuse and debris.

Backfill exposed basements and openings according to standard spec 204.3.1.2 to the present surrounding ground elevation. Compact the backfill according to standard spec 207.3.6.2. Furnish granular backfill meeting the requirements of standard spec 209 for use as backfill material.

Fill the septic systems with granular material and abandon all wells and/or sanitary sewers, if any, in compliance with all ordinances and permit requirements of the municipality in which the buildings are situated and those of the State of Wisconsin.

### **Fencing**

After removing the buildings, furnish and erect suitable fencing around the basement, porch openings, and other large open excavations to protect and safeguard the public from all hazardous conditions created by the operations. Install the fencing in such a manner to ensure that the general public is prevented from falling into any openings. The fence shall be a height of 52 inches, and the posts will be at least 58-inches high and spaced at a distance no greater than ten feet apart. After all open excavations have been backfilled satisfactorily, remove the fencing.

## **20. Notice to Contractor, Coordination with Other Projects.**

Construction for this contract is anticipated to be concurrent with other projects in the vicinity of this project area:

**KFC Improvement Project** – The KFC property located on the west side of Rose Street at Livingston Street plans improvements to the parking lot adjacent to the roadway project. The contractor will coordinate work schedule and construction operations with the site project so as not to obstruct operations or access. Work in this project includes curb and gutter and base course on the KFC property. Obtain plans for the KFC work to verify layout and grades. The TLE on the KFC property

is for grading and construction operations and is not to be used to store equipment or construction materials. Contact for KFC is Dave Porter at (608) 575-2221.

**McDonald's Reconstruction Project** – The McDonald's building will be reconstructed and the parking lot and site redeveloped during construction of the roadway project. The contractor will coordinate work schedule and construction operations with the site project so as not to obstruct operations or access. Maintain access to the site for site project contractors. Contact for McDonald's is Rick Lommen, (608) 781-8080.

Coordinate construction activities, traffic control sign placement and traffic control operations with these projects.

## **21. Notice to Contractor – Possible Contamination within BNSF Right of Way.**

If excavation on the railroad facility occurs, all excavated material must be tested. Coordination between the department and BNSF must occur prior to any material leaving their facility.

At the pre-construction meeting, submit a prosecution and progress schedule showing the proposed timeline of excavation work on the BNSF facility. The Region Railroad Coordinator will begin coordination with the department's Environmental Consultant to complete on-site testing of the material during excavation. Should the prosecution and progress schedule change, the contractor shall notify the Region Railroad Coordinator fourteen (14) days prior to the start of excavation on the BNSF facility.

Contact: Scott Willinger, SW Region Railroad Coordinator, 3550 Mormon Coulee Rd., La Crosse, WI 54601; Phone (608) 792-1360; Fax (608) 789-6306; email [gene.willinger@dot.wi.gov](mailto:gene.willinger@dot.wi.gov)

## **22. Airport Operating Restrictions/Coordination Requirements.**

In accordance to Code of Federal Regulations (CFR), Title 14, Part 77.13, obtain and complete Federal Aviation Administration (FAA) Form 7460-1. This form deals with height restriction requirements for work in the vicinity of the La Crosse Municipal Airport located in the city of La Crosse. Notify the FAA no later than 45-60 days before cranes need to be in the air. The form is available on the FAA Web Site at <http://oeaaa.faa.gov/oeaaa/external/portal.jsp>.

Present approved copies of said forms and required restrictions to the engineer prior to the beginning of crane operations. Submit all paperwork as soon as possible. No crane operations will take place until the engineer receives approved paperwork. Contact Justin Hetland, Airspace Safety Program Manager, Wisconsin Department of Transportation, at 608-267-5018 to address questions on Form 7460-1 and its requirements. Contact Brent

Thielen, city of La Crosse Inspection Department, at 608-789-7581 to address local height permitting requirements.

- Form 7460-1 has been completed and filed with FAA for construction of new sign structures S-32-50 (2016-AGL-7324-OE), S-32-52 (2016-AGL-7325-OE), S-32-66 (2016-AGL-7326-OE), S-32-53 (2016-AGL-7327-OE), S-32-51 (2016-AGL-7328-OE), S-32-54 (2016-AGL-7329-OE), S-32-56 (2016-AGL-7330-OE), S-32-55 (2016-AGL-7331-OE), and S-32-65 (2016-AGL-7332-OE) and alterations to Structure B-32-67 (2016-AGL-7333-OE). The contractor is still responsible to perform the necessary coordination as noted above for the use of cranes and/or other large construction equipment to be used for work within the vicinity of the airport.

### **23. Coordination with Businesses and Property Owners.**

The contractor shall arrange and conduct a meeting between the contractor, the department, local officials, business people, and property owners to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting prior to the start of work under this contract and hold one meeting per month thereafter.

### **24. Removing Old Structure Station 237+66.50NB, Item 203.0200.02.**

*Add the following to standard spec 203.3.1:*

Remove and salvage the existing bridge railing from Structure B-32-67 undamaged. Stockpile the existing materials at the project site at a location agreed upon with the engineer. Contact the department at least two weeks prior to removing the materials to schedule removal of salvaged items. The contact for the department is Dave Bohnsack, (608) 785.9781. This work will be included in the bid item Removing Old Structure and according to standard spec 203.

### **25. Abatement of Asbestos Containing Material Structure B-32-67, Item 203.0210.S.01.**

#### **A Description**

This special provision describes abating asbestos containing material on structures according to the plans, the pertinent provisions of the standard specifications, and as hereinafter provided.

#### **B (Vacant)**

#### **C Construction**

John Roelke, License Number All-119523, inspected Structure B-32-67 for asbestos on February 23, 2012. Regulated Asbestos Containing Material (RACM) was found on this structure in the following locations and quantities: gaskets under bridge railing support plates; non-friable asbestos with 5% asbestos content; approximately 25 square feet.



The RACM on this structure must be abated by a licensed abatement contractor. A copy of the inspection report is available from Anthony Vander Wielen, (608) 789-7878. According to NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days prior to beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form and the abatement report to Anthony Vander Wielen, (608) 789-7878 and DOT BTS-ESS attn: Hazardous Materials Specialist PO Box 7965, Madison, WI 53707-7965. In addition, comply with all local or municipal asbestos requirements.

Use the following information to complete WisDNR form 4500-113:

- Site Name: Structure B-32-67, STH 35 northbound over Burlington Northern Railroad
- Site Address: Section 8, T16N, R7W, city of Onalaska
- Ownership Information: WisDOT SW Region, 3550 Mormon Coulee Road, La Crosse, WI 54601
- Contact: Anthony Vander Wielen
- Phone: (608) 789-7878
- Age: 49 years. This structure was constructed in 1967.
- Area: 14,277 SF of deck

Insert the following paragraph in section 6.g.:

- If asbestos not previously identified is found or previously non-friable asbestos becomes crumbled, pulverized, or reduced to a powder, stop work immediately, notify the engineer, and the engineer will notify the department's Bureau of Technical Services at (608) 266-1476 for an emergency response according to standard specification 107.24. Keep material wet until it is abated or until it is determined to be non-asbestos containing material.

#### **D Measurement**

The department will measure Abatement of Asbestos Containing Material (Structure), completed according to the contract and accepted, as a single complete 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
203.0210.S.01	Abatement of Asbestos Containing Material Structure B-32-67	LS

Payment is full compensation for submitting necessary forms; removing all asbestos; properly disposing of all waste materials; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

203-005 (20120615)

**26. Abandoning Culvert Pipes, Item 204.0270.**

*Replace standard spec 204.3.3.2 (1) with the following:*

- (1) Under the Abandoning Culvert Pipes bid item, fill the abandoned pipe with Backfill Controlled Low Strength (Item 209.0200.S) and plug both ends of the abandoned pipe as specified in standard spec 204.3.3.1

**27. Removing Business Sign, Item 204.9060.S.01.**

**A Description**

This special provision describes removing business sign according to the pertinent provisions of standard spec 204 and as hereinafter provided.

Under the Removing Business Sign item, remove the existing sign from the support, remove the sign support, concrete footing, and the electrical supply. These materials become the contractor's property, unless otherwise specified. Dispose of these materials off the right-of-way.

**B (Vacant)**

**C (Vacant)**

**D Measurement**

The department will measure Removing Business Sign as each individual sign location, acceptably completed.

**E Payment**

*Supplement standard spec 204.5 to include the following:*

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Business Sign	Each

Payment is full compensation for furnishing all materials, excavating, backfilling, and restoring the site.

204-025 (20041005)

**28. Removing Flexible Tubular Marker Posts and Bases, Item 204.9060.S.01.**

**A Description**

This special provision describes Removing Flexible Tubular Marker Posts and Bases according to the pertinent provisions of standard spec 204 and as hereinafter provided.

**B (Vacant)**

**C (Vacant)**

**D Measurement**

The department will measure Removing Flexible Tubular Marker Posts and Bases as each individual unit, acceptably completed.

**E Payment**

*Add the following to standard spec 204.5:*

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Flexible Tubular Marker Posts and Bases	Each

Payment is full compensation for furnishing all materials and excavating and backfilling where necessary.

204-025 (20150630)

**29. Select Borrow.**

Conform to the requirements of standard spec 208 and as hereinafter provided.

**Materials**

Furnish and use material that consists of granular material meeting the following requirements:

Materials used in the embankment construction will consists of all aggregate particles having a dimension less than 12 inches, measured on any face, and for material passing No. 4 (4.75 mm) sieve, a maximum of 20% by weight passing the No. 200 sieve.

208-005 (20031103)

**30. Backfill Controlled Low Strength, Item 209.0200.S.**

**A Description**

This special provision describes furnishing and placing a controlled low strength material designed for use as backfill in trenches for culverts, sewers, utilities, or similar structures, as backfill behind bridges abutments, or as fill for the abandonment of culverts, pipes, or tanks.

**B Materials**

Provide controlled low strength backfill that consists of a designed cementitious mixture of natural or processed materials. Allowable materials include natural sand, natural gravel, produced sand, foundry sand, produced gravel, fly ash, Portland cement, and other broken or fragmented mineral materials. The designed mixture will be self-leveling and will be free of shrinkage after hardening. Design the mixture to reach a state of hardening such that it can support foot traffic in no more than 24 hours. Provide a mixture that also meets the following requirements.

Test	Method	Value
Flow (inch)	ASTM D-6103	9 min
Compressive Strength (psi)	ASTM D-6024	20-40 @ 14 days 40-80 @ 28 days 80-120 @ 90 days

Chemical admixtures to control air content and setting time are allowable. Ten days prior to placement, furnish the engineer with a design mix detailing all components and their proportions in the mix. Also, provide documentation from the supplier of the industrial byproducts that the foundry sand and fly ash used in the mixture meet the requirements for Industrial Byproducts Categories 1, 2, 3, or 4 in NR 538 of the Wisconsin Administrative Code for use as a confined geotechnical fill.

### **C Construction**

Place controlled low strength backfill at the locations and to the lines and grades as shown on the plan. Proportion and mix materials to produce a product of consistent texture and flow characteristics. The engineer may reject any materials exhibiting a substantial change in properties, appearance, or composition.

If the official Weather Bureau forecast for the construction site predicts temperatures at or below freezing within the next 24 hours after placement of controlled low strength backfill, protect the placed materials from freezing during that time period. If the temperature is not forecast to rise above 40° F for 72 hours after placement, the engineer may require protection from freezing for up to 72 hours.

No controlled low strength backfill will be allowed to enter any stream, lake, or sewer system. The contractor will be responsible for any clean up or remediation costs resulting from such occurrences.

### **D Measurement**

The department will measure Backfill Controlled Low Strength in volume by the cubic yard of material placed and accepted. Such volume will be computed from actual measurements of the dimensions of the area to be backfilled. In irregular or inaccessible areas, the engineer may allow volume to be determined by other appropriate methods.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
209.0200.S	Backfill Controlled Low Strength	CY

Payment is full compensation for designing the mix; supplying all materials; preparing the proportioned mix; hauling it to the construction site; placing the material; and protecting it from freezing.

209-010 (20090901)

### **31. Base Aggregate Dense ¾-Inch, Item 305.0110.**

*Revise standard spec 301.2.4.3 as follows:*

Furnish aggregate classified as crushed stone for ¾-Inch base when used in the top 3 inches of the unpaved portion of the shoulder or for unpaved driveways and field entrances.

### **32. QMP Base Aggregate.**

#### **A Description**

##### **A.1 General**

- (1) This special provision describes contractor quality control (QC) sampling and testing for base aggregates, documenting those test results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.
- (2) Conform to standard specification 301, standard specification 305, and standard specification 310 as modified here in this special provision. Apply this special provision to material placed under all of the Base Aggregate Dense and Base Aggregate Open Graded bid items, except do not apply this special provision to material classified as reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.
- (3) Do not apply this special provision to material placed under the Aggregate Detours, Salvaged Asphaltic Pavement Base, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.
- (4) Provide and maintain a quality control program, defined as all activities related to and documentation of the following:
  1. Production and placement control and inspection.
  2. Material sampling and testing.
- (5) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required sampling and testing procedures. The contractor may obtain the CMM from the department's web site at:  
<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/rdwy/default.aspx>

##### **A.2 Contractor Testing for Small Quantities**

- (1) The department defines a small quantity, for each individual Base Aggregate bid item, as a plan quantity of 9000 tons or less of material as shown in the schedule of items under that bid item.
- (2) The requirements under this special provision apply equally to a small quantity for an individual bid item except as follows:
  1. The contractor need not submit a full quality control plan but will provide an organizational chart to the engineer including names, telephone numbers, and current certifications of all persons involved in the quality control program for material under affected bid items.

2. Divide the aggregate into uniformly sized sublots for testing as follows:

Plan Quantity	Minimum Required Testing
$\leq 1500$ tons	One test from production, load-out, or placement at the contractor's option <sup>[1]</sup>
$> 1500$ tons and $\leq 6000$ tons	Two tests of the same type, either from production, load-out, or placement at the contractor's option <sup>[1]</sup>
$> 6000$ tons and $\leq 9000$ tons	Three placement tests <sup>[2] [3]</sup>

<sup>[1]</sup> If using production tests for acceptance, submit test results to the engineer for review prior to incorporating the material into the work. Production test results are valid for a period of 3 years.

<sup>[2]</sup> For 3-inch material, obtain samples at load-out.

<sup>[3]</sup> If the actual quantity overruns 9000 tons, create overrun sublots to test at a rate of one additional placement test for each 3000 tons, or fraction of 3000 tons, of overrun.

3. No control charts are required. Submit aggregate load-out and placement test results to the engineer within one business day of obtaining the sample. Assure that all properties are within the limits specified for each test.
  4. Department verification testing is optional for quantities of 6000 tons or less.
- (3) Material represented by a subplot with any property outside the specification limits is nonconforming. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard specification 106.5.

## **B Materials**

### **B.1 Quality Control Plan**

- (1) Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not place base before the engineer reviews and comments on the plan. Construct the project as that plan provides.
- (2) Do not change the quality control plan without the engineer's review. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in each of the contractor's laboratories as changes are adopted. Ensure that the plan provides the following elements:
  1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
  2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication means that will be used, and action time frames.
  3. A list of source and processing locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
  4. Test results for wear, sodium sulfate soundness, freeze/thaw soundness, and plasticity index of all aggregates requiring QC testing. Obtain this information from the region materials unit or from the engineer.
  5. Descriptions of stockpiling and hauling methods.

6. Locations of the QC laboratory, retained sample storage, and where control charts and other documentation is posted.
7. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

## **B.2 Personnel**

- (1) Have personnel certified under the department's highway technician certification program (HTCP) perform sampling, testing, and documentation as follows:

Required Certification Level:	Sampling or Testing Roles:
Aggregate Technician IPP Aggregate Sampling Technician Aggregate Assistant Certified Technician (ACT-AGG)	Aggregate Sampling <sup>[1]</sup>
Aggregate Technician IPP Aggregate Assistant Certified Technician (ACT-AGG)	Aggregate Gradation Testing, Aggregate Fractured Particle Testing, Aggregate Liquid Limit and Plasticity Index Testing

<sup>[1]</sup> Plant personnel under the direct observation of an aggregate technician certified at level one or higher may operate equipment to obtain samples.

- (2) A certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

## **B.3 Laboratory**

- (1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Management Section  
3502 Kinsman Blvd.  
Madison, WI 53704  
Telephone: (608) 246-5388

<http://wisconsin.dot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/appr-prod/qual-labs.aspx>

## **B.4 Quality Control Documentation**

### **B.4.1 General**

- (1) Submit base aggregate placement documentation to the engineer within 10 business days after completing base placement. Ensure that the submittal is complete, neatly organized, and includes applicable project records and control charts.

#### **B.4.2 Records**

- (1) Document all placement observations, inspection records, and control adjustments daily in a permanent field record. Also include all test results in the project records. Provide test results to the engineer within 6 hours after obtaining a sample. For 3-inch base, extend this 6-hour limit to 24 hours. Post or distribute tabulated results using a method mutually agreeable to the engineer and contractor.

#### **B.4.3 Control Charts**

- (1) Plot gradation and fracture on the appropriate control chart as soon as test results are available. Format control charts according to CMM 8.30. Include the project number on base placement control charts. Maintain separate control charts for each base aggregate size, source or classification, and type.
- (2) Provide control charts to the engineer within 6 hours after obtaining a sample. For 3-inch base, extend this 6-hour limit to 24 hours. Post or distribute charts using a method mutually agreeable to the engineer and contractor. Update control charts daily to include the following:
  1. Contractor individual QC tests.
  2. Department QV tests.
  3. Department IA tests.
  4. Four-point running average of the QC tests.
- (3) Except as specified under B.8.2.1 for nonconforming QV tests, include only QC tests in the running average. The contractor may plot process control or informational tests on control charts, but do not include these tests, conforming QV tests, or IA tests in the running average.

#### **B.5 Contractor Testing**

- (1) Test gradation, fracture, liquid limit and plasticity index during placement for each base aggregate size, source or classification, and type.
- (2) Test gradation once per 3000 tons of material placed. Determine random sample locations and provide those sample locations to the engineer. Obtain samples after the material has been bladed, mixed, and shaped but before compacting; except collect 3-inch samples from the stockpile at load-out. Do not sample from material used to maintain local traffic or from areas of temporary base that will not have an overlying pavement. On days when placing only material used to maintain local traffic or only temporary base that will not have an overlying pavement, no placement testing is required.
- (3) Split each contractor QC sample and identify it according to CMM 8.30. Retain the split for 7 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.
- (4) The engineer may require additional sampling and testing to evaluate suspect material or the technician's sampling and testing procedures.



- (5) Test fracture for each gradation test until the fracture running average is above the lower warning limit. Subsequently, the contractor may reduce the frequency to one test per 10 gradation tests if the fracture running average remains above the warning limit.
- (6) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

## **B.6 Test Methods**

### **B.6.1 Gradation**

- (1) Test gradation using a washed analysis conforming to the following as modified in CMM 8.60:  
 Gradation..... AASHTO T 27  
 Material finer than the No. 200 sieve..... AASHTO T 11
- (2) For 3-inch base, if 3 consecutive running average points for the percent passing the No. 200 sieve are 8.5 percent or less, the contractor may use an unwashed analysis. Wash at least one sample out of 10. If a single running average for the percent passing the No. 200 sieve exceeds 8.5 percent, resume washed analyses until 3 consecutive running average points are again 8.5 percent passing or less.
- (3) Maintain a separate control chart for each sieve size specified in standard specification 305 or standard specification 310 for each base aggregate size, source or classification, and type. Set control and warning limits based on the standard specification gradation limits as follows:
  1. Control limits are at the upper and lower specification limits.
  2. There are no upper warning limits for sieves allowing 100 percent passing and no lower control limits for sieves allowing 0 percent passing.
  3. Dense graded warning limits, except for the No. 200 sieve, are 2 percent within the upper and lower control limits. Warning limits for the No. 200 sieve are set 0.5 percent within the upper and lower control limits.
  4. Open graded warning limits for the 1-inch, 3/8-inch, and No. 4 sieves are 2 percent within the upper and lower control limits. Upper warning limits for the No. 10, No. 40, and No. 200 sieves are 1 percent inside the upper control limit.

### **B.6.2 Fracture**

- (1) Test fracture conforming to CMM 8.60. The engineer will waive fractured particle testing on quarried stone.
- (2) Maintain a separate fracture control chart for each base aggregate size, source or classification, and type. Set the lower control limit at the contract specification limit, either specified in another special provision or in table 301-2 of standard specification 301.2.4.5. Set the lower warning limit 2 percent above the lower control limit. There are no upper limits.

### **B.6.3 Liquid Limit and Plasticity**

- (1) Test the liquid limit and plasticity according to AASHTO T 89 and T 90.
- (2) Ensure the material conforms to the limits specified in standard specification table 301-2.

## **B.7 Corrective Action**

### **B.7.1 General**

- (1) Consider corrective action when the running average trends toward a warning limit. Take corrective action if an individual test exceeds the contract specification limit. Document all corrective actions both in the project records and on the appropriate control chart.

### **B.7.2 Placement Corrective Action**

- (1) Do not blend additional material on the roadbed to correct gradation problems.
- (2) Notify the engineer whenever the running average exceeds a warning limit. When two consecutive running averages exceed a warning limit, the engineer and contractor will discuss appropriate corrective action. Perform the engineer's recommended corrective action and increase the testing frequency as follows:
  1. For gradation, increase the QC testing frequency to at least one randomly sampled test per 1000 tons placed.
  2. For fracture, increase the QC testing frequency to at least one test per gradation test.
- (3) If corrective action improves the property in question such that the running average after 4 additional tests is within the warning limits, the contractor may return to the testing frequency specified in B.5.3. If corrective action does not improve the property in question such that the running average after 4 additional individual tests is still in the warning band, repeat the steps outlined above starting with engineer notification.
- (4) If the running average exceeds a control limit, material starting from the first running average exceeding the control limit and ending at the first subsequent running average inside the control limit is nonconforming and subject to pay reduction.
- (5) For individual test results significantly outside the control limits, notify the engineer, stop placing base, and suspend other activities that may affect the area in question. The engineer and contractor will jointly review data, data reduction, and data analysis; evaluate sampling and testing procedures; and perform additional testing as required to determine the extent of potentially unacceptable material. The engineer may direct the contractor to remove and replace that material. Individual test results are significantly outside the control limits if meeting one or more of the following criteria:
  1. A gradation control limit for the No. 200 sieve is exceeded by more than 3.0 percent.
  2. A gradation control limit for any sieve, except the No. 200, is exceeded by more than 5.0 percent.
  3. The fracture control limit is exceeded by more than 10.0 percent.

## **B.8 Department Testing**

### **B.8.1 General**

- (1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within two business days after the department obtains the sample.

### **B.8.2 Verification Testing**

#### **B.8.2.1 General**

- (1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in B.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.
- (2) The department will conduct QV tests of each base aggregate size, source or classification, and type during placement conforming to the following:
  1. One non-random test on the first day of placement.
  2. At least one random test per 30,000 tons, or fraction of 30,000 tons, placed.
- (3) The department will sample randomly, at locations independent of the contractor's QC work, collecting one sample at each QV location. The department will collect QV samples after the material has been bladed, mixed, and shaped but before compacting; except, for 3-inch aggregates, the department will collect samples from the stockpile at load-out. The department will split each sample, test half for QV, and retain half.
- (4) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.
- (5) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

#### **B.8.3 Independent Assurance**

- (1) Independence assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

1. Split sample testing.
  2. Proficiency sample testing.
  3. Witnessing sampling and testing.
  4. Test equipment calibration checks.
  5. Reviewing required worksheets and control charts.
  6. Requesting that testing personnel perform additional sampling and testing.
- (2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in B.9.

### **B.9 Dispute Resolution**

- (1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.
- (2) Production test results, and results from other process control testing, may be considered when resolving a dispute.
- (3) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard specification 106.5.

### **C (Vacant)**

### **D (Vacant)**

### **E Payment**

- (1) Costs for all sampling, testing, and documentation required under this special provision are incidental to this work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the non-performance of QMP administrative item.
- (2) For material represented by a running average exceeding a control limit, the department will reduce pay by 10 percent of the contract price for the affected Base Aggregate bid items listed in subsection A. The department will administer pay reduction under the

Nonconforming QMP Base Aggregate Gradation or Nonconforming QMP Base Aggregate Fracture Administrative items. The department will determine the quantity of nonconforming material as specified in B.7.2.  
301-010 (20151210)

### **33. Rout and Seal, Item 415.6000.S.**

#### **A Description**

This special provision describes routing, cleaning, drying, and sealing the longitudinal edge of pavement joints in new asphaltic pavement shoulders immediately adjacent to the edge of the concrete mainline pavement. The work will conform to the plan details and as hereinafter provided.

#### **B Materials**

Furnish material that conforms to the requirements of the Specifications for Joint Sealants, Hot-Poured, for Concrete and Asphalt Pavements, ASTM Designation: D 6690, Type II, modified to require that the bond strength test be run at -20 degrees F. (The unmodified ASTM D 6690, Type II allows this test to be run at either 0 degrees F or -20 degrees F.)

Deliver each lot or batch of sealing compound to the jobsite in the manufacturer's original sealed container. Mark each container with the manufacturer's name, batch or lot number, and the safe heating temperature. Present the manufacturer's certification stating that the compound meets the requirements of this specification. Prior to applying the sealant, furnish to the engineer a certificate of compliance and a copy of the manufacturer's recommendations on heating and applying the sealant.

#### **C Construction**

##### **C.1 Equipment**

Heat the sealing compound to the pouring temperature recommended by the manufacturer in an approved kettle or tank, constructed as a double boiler, with the space between the inner and outer shells filled with oil or other satisfactory heat transfer medium. If and when using the heating kettle on concrete or asphaltic pavement, properly insulate the heating kettle to ensure heat is not radiated to the pavement surface.

Make rout cuts in a single pass. Two-pass cutting will not be allowed. Use a self-propelled mechanical router capable of routing the bituminous pavement to provide a 1.0:1.0 depth to width ratio of all routed cracks. The router blade or blades will be of such size and configuration to cut the desired joint reservoir in one pass. No spacers between blades will be allowed unless the contractor can demonstrate to the engineer that the desired reservoir and rout cut can be obtained with them. Either wet or dry routing will be permitted provided the above conditions are met. Use a pressure distributor for applying sealing material through a hand-operated wand or nozzle according to sealant manufacturer's instructions.

## **C.2 Methods**

Conduct the operation so that the routing, cleaning, and sealing are continuous operations. Traffic will not be allowed to knead together or damage the routed joints. Rerout, if necessary, routed joints not sealed before traffic is allowed on the pavement when routing and sealing operations resume at no additional cost to the department. Do not perform rout cutting, cleaning, and sealing, within 48 hours of the placement of the shoulder's surface course.

Rout the longitudinal joint to a minimum width of  $\frac{3}{4}$ -inches and a minimum depth of  $\frac{3}{4}$ -inches. Use a power vacuum or equivalent to immediately remove any routing slurry, dirt, or deleterious matter adhering to the joint walls or remaining in the joint cavity, or both. Prior to sealing, dry the cleaned joints either by air-drying or by using a high capacity torch. Immediately prior to sealing, blow out the dried crack with a blast of compressed air, 80-psi minimum. Continue cleaning until the joint is dry, and until all dirt, dust, or deleterious matter is removed from the joint and adjacent pavement to the satisfaction of the engineer. If the air compressor produces dirt or other residue in the joint cavity, the contractor will be required to clean the joint again.

If cleaning operations could cause damage to, or interfere with, traffic in adjacent lanes, or both, provide protective screening that is subject to the approval of the engineer to the cleaning operation.

Following cleaning, dry the routed joints and warm them with a hot air lance. Take care not to burn the pavement surface. Under no circumstances will more than two minutes elapse between the time the hot air lance is used and the sealant is placed.

Provide positive temperature control and mechanical agitation. Do not heat the sealant to more than 20 degrees F below the safe heating temperature. The safe heating temperature can be obtained from the manufacturer's shipping container. Provide a direct connecting pressure type extruding device with nozzles shaped for insertion into the joint. Immediately remove sealant spilled on the surface of the pavement.

Seal the joints when the sealant material is at the pouring temperature recommended by the manufacturer. Fill the joint such that after cooling, the sealant is flush with the adjacent pavement surface. Do not overfill the joint; the engineer may allow a very slight overband. Sand will not be spread on the sealed joints to allow for opening to traffic. Before opening to traffic, the sealant will be tack free.

## **D Measurement**

The department will measure Rout and Seal in length by the linear foot, completed according to the contract and accepted.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
415.6000.S	Rout and Seal	LF

Payment is full compensation for rout cutting; cleaning the joint; furnishing and installing all materials, including sealant.

415-100 (20140630)

### 34. Expansion Device, Structure B-32-67.

#### A Description

This special provision describes furnishing and installing an expansion device according to standard spec 502, as shown on the plans, and as hereinafter provided.

#### B Materials

The minimum thickness of the polychloroprene strip seal will be ¼-inch for non-reinforced elastomeric glands and 1/8-inch for reinforced glands. Furnish the strip seal gland in lengths suitable for a continuous one-piece installation at each individual expansion joint location. Provide preformed polychloroprene strip seals that conform to the requirements ASTM D3542, and have the following physical properties:

Property Requirements	Value	Test Method
Tensile Strength, min.	2000 psi	ASTM D412
Elongation @ Break, min	250%	ASTM D412
Hardness, Type A, Durometer	60 ± 5 pts.	ASTM D2240
Compression Set, 70 hours @212°F, max.	35%	D395 Method B Modified
Ozone Resistance, after 70 hrs. at 100°F under 20% Strain with 100 pphm ozone	No Cracks	ASTM D1149 Method A
Mass Change in Oil 3 after 70 hr. 212°F	45%	ASTM D471
Mass Change, max.		

Install the elastomeric strip seal gland with tools recommended by the manufacturer, and with a lubricant adhesive conforming to the requirements of ASTM D4070.

The manufacturer and model number will be one of the following approved strip seal expansion device products:

		Model Number Strip Seal Gland Size*	
Manufacturer	4-Inch	5-Inch	6-Inch
D.S. Brown	SSA2-A2R-400	SSA2-A2R-XTRA	SSA2-A2R-XTRA
R.J. Watson	RJA-RJ400	RJA-RJ500	RJA-RJ600
Watson Bowman Acme	A-SE400	A-SE500	A-SE800
Commercial Fabricators	A-AS400	-----	-----

\*Expansion device strip seal gland size requirement of 4", 5", and 6" will be as shown on the plans.

Furnish manufacturer's certification for production of polychloroprene represented showing test results for the cured material supplied, and certifying that it meets all specified requirements.

The steel extrusion or retainer will conform to ASTM designation A 709 grade 36 steel. After fabrication, steel will be galvanized conforming to the requirements ASTM A123.

Manufacturer's certifications for adhesive and steel will attest that the materials meet the specification requirements.

502-020 (20110615)

### **35. Polymer Overlay, Item 509.5100.S.**

#### **A Description**

This special provision describes furnishing and applying two layers of a two-component polymer overlay system to the bridge decks shown on the plans. The minimum total thickness of the overlay system will be 1/4".

#### **B Materials**

##### **B.1 General**

Furnish materials specifically designed for use over concrete bridge decks. Furnish polymer liquid binders from the department's approved product list.

##### **B.2 Polymer Resin**

The polymer resin base and hardener will be composed of two-component, 100% solids, 100% reactive, thermosetting compound with the following properties:

Property	Requirements	Test Method
Gel Time <sup>A</sup>	15 - 45 minutes @ 73° to 75° F	ASTM C881
Viscosity <sup>A</sup>	7 - 70 poises	ASTM D2393, Brookfield RVT, Spindle No. 3, 20 rpm
Shore D Hardness <sup>B</sup>	60-75	ASTM D2240
Absorption <sup>B</sup>	1% maximum at 24 hr	ASTM D570
Tensile Elongation <sup>B</sup>	30% - 70% @ 7 days	ASTM D638
Tensile Strength <sup>B</sup>	>2000 psi @ 7 days	ASTM D638
Chloride Permeability <sup>B</sup>	<100 coulombs @ 28 days	AASHTO T277

<sup>A</sup> Uncured, mixed polymer binder

<sup>B</sup> Cured, mixed polymer binder

##### **B.3 Aggregates**

Furnish natural or synthetic aggregates that have a proven record of performance in applications of this type. Furnish aggregates that are non-polishing, clean, free of surface



moisture, fractured or angular in shape; free from silt, clay, asphalt, or other organic materials; and meet the following properties and gradation requirements:

Aggregate Properties:

Property	Requirement	Test Method
Moisture Content*	½ of the measured aggregate absorption, %	ASTM C566
Hardness	<sup>3</sup> 6.5	Mohs Scale
Fractured Faces	100% with at least 1 fractured face and 80% with at least 2 fractured faces of material retained on No.16	ASTM 5821
Absorption	≤1%	ASTM C128

\* Sampled and tested at the time of placement.

Gradation:

Sieve Size	% Passing by Weight
No. 4	100
No. 8	30 – 75
No. 16	0 – 5
No. 30	0 – 1

#### B.4 Required Properties of Overlay System

The required properties of the overlay system are listed in the table below:

Property	Requirement <sup>A</sup>	Test Method
Minimum Compressive Strength at 8 Hrs. (psi)	1,000 psi @ 8 hrs 5,000 psi @ 24 hrs	ASTM C 579 Method B, Modified <sup>B</sup>
Thermal Compatibility	No Delaminations	ASTM C 884
Minimum Pull-off Strength	250 psi @ 24 hrs	ACI 503R, Appendix A

<sup>A</sup> Based on samples cured or aged and tested at 75°F

<sup>B</sup> Plastic inserts that will provide 2-inch by 2-inch cubes will be placed in the oversized brass molds.

#### B.5 Approval of Bridge Deck Polymer Overlay System

A minimum of 20 working days prior to application, submit product data sheets and specifications from the manufacturer, and a certified test report to the engineer for approval. The engineer may request samples of the polymer and/or aggregate, prior to application, for the purpose of acceptance testing by the department.

For materials not pre-qualified, in addition to the above submittals, submit product history/reference projects and a certified test report from an independent testing laboratory showing compliance with the requirements of the specification.

The product history/reference projects consist of a minimum of five bridge/roadway locations where the proposed overlay system has been applied in Wisconsin or in locations with a similar climate - include contact names for the facility owner, current phone number or e-mail address, and a brief description of the project.

Product data sheets and specifications from the manufacture consists of literature from the manufacturer showing general instructions, application recommendations/methods, product properties, general instructions, or any other applicable information.

## **C Construction**

### **C.1 General**

Conduct a pre-installation conference with the manufacturer's representative prior to construction to establish procedures for maintaining optimum working conditions and coordination of work. Furnish the engineer a copy of the recommended procedures and apply the overlay system according to the manufacturer's instructions. The manufacturer's representative familiar with the overlay system installation procedures will be present at all times during surface preparation and overlay placement to provide quality assurance that the work is being performed properly.

Store resin materials in their original containers in a dry area. Store and handle materials according to the manufacturer's recommendations. Store all aggregates in a dry environment and protect aggregates from contaminants on the job site.

### **C.2 Deck Preparation**

#### **C.2.1. Deck Repair**

Remove all asphaltic patches and unsound or disintegrated areas of the concrete decks as the plans show, or as the engineer directs. Work performed to repair the concrete deck will be paid for under other items. Ensure that products used for deck patching are compatible with the polymer overlay system.

**NOTE:** Some polymer systems require concrete patch material to be in place a minimum of 28-days before overlaying - contact polymer manufacturer before completing deck patching/repair.

#### **C.2.2 Surface Preparation**

Determine an acceptable shotblasting machine operation (size of shot, flow of shot, forward speed, and/or number of passes) that provides a surface profile meeting CSP 5 according to the International Concrete Repair Institute Technical Guideline No. 03732. If the engineer requires additional verification of the surface preparation, test the tensile bond strength according to ACI 503R, Appendix A of the *ACI Manual of Concrete Practice*. The surface preparation will be considered acceptable if the tensile bond strength is greater than or equal

to 250 psi or the failure area at a depth of ¼ inches or more is greater than 50% of the test area. Continue adjustment of the shotblasting machine and necessary testing until the surface is acceptable to the engineer or a passing test result is obtained.

Prepare the entire deck using the final accepted adjustments to the shotblasting machine as determined above. Thoroughly blast clean with hand-held equipment any areas inaccessible by the shotblasting equipment. Do not perform surface preparation more than 24 hours prior to the application of the overlay system.

Prepare the vertical concrete surfaces adjacent to the deck a minimum of 2" above the overlay according to SSPC-SP 13 by sand blasting, using wire wheels, or other approved method.

Just prior to overlay placement, clean all dust, debris, and concrete fines from the prepared surfaces including the vertical surfaces with compressed air. When using compressed air, the air stream must be free of oil. Any grease, oil, or other foreign matter that rests on or has absorbed into the concrete will be removed completely. If any prepared surfaces (including the first layer of the polymer overlay) are exposed to rain or dew, lightly sandblast (breeze blast) the exposed surfaces.

Protect drains, expansion joints, access hatches, or other appurtenances on the deck from damage by the shot and sand blasting operations and from materials adhering and entering. Tape or form all construction joints to provide a clean straight edge.

Create a transitional area approaching transverse expansion joints and ends of the deck using the shotblasting machine or other approved method. Remove 5/16" to 3/8" of concrete adjacent to the joint or end of deck and taper a distance of 3 feet.

The engineer may consider alternate surface preparation methods per the overlay system manufacturer's recommendations. The engineer will approve the final surface profile and deck cleanliness prior to the contractor placing the polymer overlay.

### **C.3 Application of the Overlay**

Perform the handling and mixing of the polymer resin and hardening agent in a safe manner to achieve the desired results according to the manufacturer's instructions. Do not apply the overlay system if any of the following exists:

- a. Ambient air temperature is below 50°F.
- b. Deck temperature is below 50°F.
- c. Moisture content in the deck exceeds 4.5% when measured by an electronic moisture meter or shows visible moisture after 2 hours when measured according to ASTM D4263.
- d. Rain is forecasted during the minimum curing periods listed under C.5.
- e. Materials component temperatures below 50°F or above 99°F.
- f. Concrete age is less than 28 days unless approved by the engineer.
- g. The deck temperature exceeds 100°F.
- h. If the gel time is 10 minutes or less at the predicted high air temperature for the day.

After the deck has been shotblasted or during the overlay curing period, only necessary surface preparation and overlay application equipment will be allowed on the deck. Begin overlay placement as soon as possible after surface preparation operations.

The polymer overlay will consist of a two-course application of polymer and aggregate. Each of the two courses will consist of a layer of polymer covered with a layer of aggregate in sufficient quantity to completely cover the polymer. Apply the polymer and aggregate according to the manufacturer's requirements. Apply the overlay using equipment designed for this purpose. The application machine will feature positive displacement volumetric metering and be capable of storing and mixing the polymer resins at the proper mix ratio. Disperse the aggregate using a standard chip spreader or equivalent machine that can provide a uniform, consistent coverage of aggregate. First course applications that do not receive enough aggregate before the polymer gels will be removed and replaced. A second course applied with insufficient aggregate may be left in place, but will require additional applications before opening to traffic.

After completion of each course, cure the overlay according to the manufacturer's instructions. Follow the minimum cure times listed under C.5 or as prescribed by the manufacturer. Remove the excess aggregate from the surface treatment by sweeping, blowing, or vacuuming without tearing or damaging the surface; the material may be re-used if approved by the engineer and manufacturer. Apply all courses of the overlay system before opening the area to traffic. Do not allow traffic on the treated area until directed by the engineer.

After the first layer of coating has cured to the point where the aggregate cannot be pulled out, apply the second layer. Prior to applying the second layer, broom and blow off the first layer with compressed air to remove all loose excess aggregate.

Prior to opening to traffic, clean expansion joints and joint seals of all debris and polymer. If required by the engineer, a minimum of three days following opening to traffic, remove loosened aggregates from the deck, expansion joints, and approach pavement.

#### **C.4 Application Rates**

Apply the polymer overlay in two separate courses according to the manufacturer's instructions, but not less than the following rate of application.

Course	Minimum Polymer Rate <sup>A</sup> (GAL/100 SF)	Aggregate <sup>B</sup> (LBS/SY)
1	2.5	10+
2	5.0	14+

<sup>A</sup> The minimum total applications rate is 7.5 GAL/100 SF.

<sup>B</sup> Application of aggregate will be of sufficient quantity to completely cover the polymer.

### C.5 Minimum Curing Periods

As a minimum, cure the coating as follows:

	Average temperature of deck, polymer and aggregate components in °F							
Course	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99
1	6 hrs.	5 hrs.	4 hrs.	3 hrs.	2.5 hrs	2 hrs	1.5 hrs.	1 hr.
2	8 hrs.	6.5 hrs.	6.5 hrs.	5 hrs.	4 hrs.	3 hrs.	3 hrs.	3 hrs.

### C.6 Repair of Polymer Overlay

Repair all areas of unbonded, uncured, or damaged polymer overlay for no additional compensation. Submit repair procedures from the manufacturer to the engineer for approval. Absent a manufacturer's repair procedures and with the approval of the engineer, complete repairs according to the following: Saw cut the limits of the area to the top of the concrete; remove the overlay by scarifying, grinding, or other approved methods; shot blast or sand blast and air blast the concrete prior to placement of polymer overlay; and place the polymer overlay according to section C.3.

### D Measurement

The department will measure Polymer Overlay in area by the square yard, acceptably completed.

### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.5100.S	Polymer Overlay	SY

Payment is full compensation for preparing the surface; for tensile bond testing; for providing the overlay; for cleanup; and for sweeping/vacuuming and disposing of excess materials. Concrete Deck Repair will be paid for separately.  
509-030 (20150630)

## 36. Epoxy Crack Sealing, Item 509.9020.S.

### A Description

Seal vertical cracks in the abutments according to the plan details and as hereinafter provided.

### B Materials

Furnish a penetrating epoxy sealant manufactured by Sika, Adhesive Engineering, Technical Sealants, Dayton Superior, or equal. Before using, obtain the engineer's approval for the epoxy system which is proposed to seal the cracks.

### **C Construction**

Before sealing, clean the cracks by chipping and by using high-pressure air.

After all of the cleaning is completed, inject epoxy sealant into the cracks to be sealed. Seal the cracks using the penetrating epoxy sealant as recommended by the sealant manufacturer.

### **D Measurement**

The department will measure Epoxy Crack Sealing in length by the linear foot of crack, acceptably sealed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
509.9020.S	Epoxy Crack Sealing	LF

Payment is full compensation for cleaning the cracks; and for furnishing and placing the epoxy sealant.

509-020 (20100709)

## **37. Structure Repainting General.**

### **A General**

#### **A.1 Inspection**

On all structures in this contract, notify the engineer of any missing or broken bolts or nuts, any missing or broken rivets, or of any cracks or flaws in the steel members while cleaning or painting.

#### **A.2 Date Painted**

At the completion of all painting work, stencil in black paint or contrasting color paint the date of painting the bridge. The numbers will be three inches (75 mm) in height and will show the month and year in which the painting was completed: e.g., 11-95 (November 1995). On each bridge painted, stencil the date at two locations. On truss bridges, stencil the date on the cover plates of end posts near and above the top of the railings at the oncoming traffic end. On steel girder bridges, stencil the date on the **inside** of the outside stringers at the abutments. The date on grade separation bridges will be readable when going under the structure or at some equally visible surface near the ends of the bridge, as designated by the engineer.

#### **A.3 Graffiti Removal**

Remove any graffiti on concrete abutments, piers, pier caps, parapet railings, slope paving or any other location at the direction of the engineer. Use a brush sandblast to remove graffiti.

The above work will not be measured and paid for separately, but will be considered incidental to other items in the contract.

### **B (Vacant)**

## **C Construction**

### **C.1 Repainting Methods**

Do not perform blasting, cleaning and painting on days of high winds. Prevailing winds in excess of 15 mph (25 km/hr) will be considered high winds.

Place the final field coat of paint on the exterior of the exterior beams as a continuous painting operation. Stop at splices, vertical stiffeners or other appropriate locations so that lap marks are not evident or noticeable.

Completely clean and remove spent abrasive and other waste materials resulting from the contractor's operation from bridge deck surfaces, gutter lines, drains, curbs, bridge seats, pier caps, slope paving, roadway below, and all structural members and assemblies.

### **C.2 Inspection**

*Add the following to standard spec 105.9:*

Furnish, erect and move scaffolding and other appropriate equipment to permit the inspector the opportunity to closely observe all affected surfaces. The scaffolding, with appropriate safety devices, will meet the approval of the engineer.

517-005 (20150630)

## **38. Preparation and Coating of Top Flanges Structure B-32-67, Item 517.0900.S.01.**

### **A Description**

This special provision describes thoroughly cleaning and coating the top surface and edges of the top flanges, removing loose paint, rust, mill scale, dirt, oil, grease, or other foreign substances until the specified finish is obtained.

### **B (Vacant)**

### **C Construction**

For top flanges and edges that have no paint on them and according to the department's Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, clean the top surface and edges of the top flanges and paint them with one coat of an approved zinc rich primer. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

For top flanges and edges that have paint on them and according to the department's Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, clean all areas of rust and loose paint on the top surface and edges of the top flanges. Wash the top surface and edges of the top flanges and paint them with one coat of an approved zinc-rich primer according to paint manufacture's recommendations. If flash rusting occurs prior to the application of the primer, stop painting application, remove the flash rusting and paint cleaned surface. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

Where plans call for the cleaning of other painted structural steel including hanger assemblies, bearings, field splices, and connections, clean areas of loose paint and rust according to the department's Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, or and according to paint manufacture's cleaning recommendations. Sound paint need not be removed with the exception of an area 12-inch on either side of hanger assembly centerlines. Clean this area to base metal according to the paint manufacture's cleaning recommendations and paint them one coat of an approved zinc-rich primer according to paint manufacture's recommendations. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

For areas of exposed steel members that are to be imbedded in new concrete and according to the department's Pre-Qualified Paint Systems for Structure Overcoating Cleaning and Priming, thoroughly clean the surface area of exposed steel members that are to be imbedded in the new concrete and solvent wash and paint one coat of an approved zinc rich primer according to paint manufacture's recommendations to these areas. Paint for Solvent Cleaning for Overcoat-minimum Cleaning (SP-1) is not allowed.

According to the approved project specific hazardous material containment plan, furnish and erect tarpaulins or other materials to collect all of the spent paint containing material resulting from blasting or hand and power tool cleaning and coating. Minimize dust during all clean-up activities. Collect and store waste material at the end of each work day or more often if needed. Store waste materials in the hazardous waste containers provided. Lock and secure all waste containers at the end of each work day. Cover the container(s) at all times except when adding or removing waste material. Store the containers in an accessible and secured area, not located in a storm water runoff course, flood plain or exposed to standing water. Transportation and disposal of such waste material will be the responsibility of the department.

Damage to existing painted surfaces as a result of construction operations, will be restored to the approval of the engineer at the contractor's expense.

#### **D Measurement**

The department will measure Preparation and Coating of Top Flanges (Structure) as a single complete lump sum unit of work for the structure, completed according to the contract and accepted.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
517.0900.S.01	Preparation and Coating of Top Flanges Structure B-32-67	LS

Payment is full compensation for preparing and cleaning the designated surfaces; and for furnishing and applying the coating.

517-010 (20140630)



### **39. Concrete Staining Structure B-32-67, Item 517.1010.S.01.**

#### **A Description**

Furnish and apply a two coat concrete stain to the exposed concrete surfaces of the structure, as detailed in the plans and as hereinafter provided.

#### **B Materials**

##### **B.1 Mortar**

Use mortar for sack rubbing the concrete surfaces as given in standard spec 502.3.7.5 or use one of the following products:

Preblended, Packaged Type II      Tri-Mix by TK Products

Cement:

Thoroseal Pearl Gray by Thoro Products

The mortar will contain one of the following acrylic bonding admixtures mixed and applied according to manufacturer's recommendations:

Acrylic Bonding Admixture:    TK-225 by TK Products  
   Achro 60 by Thoro Products  
   Achro Set by Master Builders

##### **B.2 Concrete Stain**

Use concrete stain manufactured for use on exterior concrete surfaces, consisting of a base coat and a pigmented sealer finish coat. Use the following products, or equal as approved by the department, as part of the two coat finish system:

Tri-Sheen Concrete Surfacer, Smooth by TK Products  
Tri-Sheen Acrylic by TK Products  
TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products  
Safe-Cure and Seal EPX by Chem Masters  
H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

#### **C Construction**

##### **C.1 General**

Furnish, prepare, apply, cure, and store all materials according to the product manufacturer's specifications for the type and condition of application required.

Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, prior to staining.

##### **C.2 Preparation of Concrete Surfaces**

Provide a sack rubbed finish according to standard spec 502.3.7.5, using mortar as indicated above on concrete surfaces with open voids or honeycombing.

Following the sack rubbing, clean all concrete surfaces that are to be coated to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, and any foreign material and that the surface will accept the coating material according to product requirements. As a minimum, clean the surface using a 3000-psi water blast. Hold the nozzle of the water blaster approximately 6 inches from the concrete surface and move it continuously in a sweeping motion. Give special attention to smooth concrete surfaces to produce an acceptable surface texture. Correct any surface problems resulting from the surface preparation methods. Grit blasting of the concrete surface is not allowed.

### **C.3 Staining Concrete Surfaces**

Apply the concrete stain according to the manufacturer's recommendations.

Apply the concrete stain when the temperature of the concrete surface is 45° F or higher, or as given by the manufacturer.

The color of the stain will be as given on the plan. Tint the base coat to match the finish coat; the two coats will be compatible with each other.

Do not begin staining the structure until earthwork operations are completed to a point where this work can begin without receiving damage. Where this work is adjacent to exposed soil or pavement areas, provide temporary covering protection from overspray or splatter.

### **C.4 Test Areas**

Prior to applying stain to the structure, apply the stain to sample panels measuring a minimum of 48-inches x 48-inches and constructed to demonstrate workmanship in the use of the form liner specified on the structure if applicable. Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, prior to staining. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between the stones produced by the form liner if applicable. Do not apply stain to the structure until the department approves the test panels.

### **C.5 Surfaces to be Coated.**

Apply concrete stain to the surfaces according to the plan.

## **D Measurement**

The department will measure Concrete Staining (Structure) in area by the square foot of surface, acceptably prepared and stained.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1010.S.01	Concrete Staining Structure B-32-67	SF

Payment is full compensation for furnishing and applying the two coat system; for preparing the concrete surface; and for preparing the sample panels.  
517-110 (20140630)

#### **40. Concrete Staining Multi-Color Structure B-32-67, Item 517.1015.S.01.**

##### **A Description**

Furnish and apply a multi-color concrete stain to the exposed concrete surfaces of the structure, as detailed in the plans and as hereinafter provided.

##### **B Materials**

###### **B.1 Mortar**

Use mortar for sack rubbing the concrete surfaces as given in standard specification 502.3.7.5 or use one of the following products:

Preblended, Packaged Type II Cement:      Tri-Mix by TK Products  
   Thoroseal Pearl Gray by Thoro Products

The mortar will contain one of the following acrylic bonding admixtures mixed and applied according to manufacturer's recommendations:

Acrylic Bonding Admixture:      TK-225 by TK Products  
   Achro 60 by Thoro Products  
   Achro Set by Master Builders

###### **B.2 Concrete Stain**

Use concrete stain manufactured for use on exterior concrete surfaces. Use the following products, or equal as approved by the department:

Tri-Sheen Concrete Surfacers, Smooth by TK Products  
Tri-Sheen Acrylic by TK Products  
TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products  
Safe-Cure and Seal EPX by Chem Masters  
H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

##### **C Construction**

###### **C.1 General**

Furnish, prepare, apply, cure, and store all materials according to the product manufacturer's specifications for the type and condition of application required.

Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, prior to staining.

###### **C.2 Preparation of Concrete Surfaces**

Provide a sack rubbed finish according to standard spec 502.3.7.5, using mortar as indicated above on concrete surfaces with open voids or honeycombing.

Following the sack rubbing, clean all concrete surfaces that are to be coated to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, and any foreign material and that the surface will accept the coating material according to product requirements. As a minimum, clean the surface using a 3000-psi water blast. Hold the nozzle of the water blaster approximately 6 inches from the concrete surface and move it continuously in a sweeping motion. Give special attention to smooth concrete surfaces to produce an acceptable surface texture. Correct any surface problems resulting from the surface preparation methods. Grit blasting of the concrete surface is not allowed.

### **C.3 Staining Concrete Surfaces**

Apply the concrete stain according to the manufacturer's recommendations.

Apply the concrete stain when the temperature of the concrete surface is 45° F or higher, or as given by the manufacturer.

The color of the staining will produce a multi-color effect that consists of multiple colors replicating varying natural stone coloration. Stain the joints between stones produced by the form liner to create the appearance of grouted joints.

Do not begin staining the structure until earthwork operations are completed to a point where this work can begin without receiving damage. Where this work is adjacent to exposed soil or pavement areas, provide temporary covering protection from overspray or splatter.

### **C.4 Test Areas**

Prior to applying stain to the structure, apply the stain to sample panels measuring a minimum of 48-inches x 48-inches and constructed to demonstrate workmanship in the use of the form liner specified on the structure if applicable. Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, prior to staining. Submit color samples to the department prior to staining the sample panels. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between stones produced by the form liner. Do not apply stain to the structure until the department approves the test panels.

### **C.5 Surfaces to be Coated.**

Apply concrete stain to the surfaces according to the plan.

## **D Measurement**

The department will measure Concrete Staining Multi-Color (Structure) in area by the square foot of surface, acceptably prepared and stained.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1015.S.01	Concrete Staining Multi-Color Structure B-32-67	SF

Payment is full compensation for furnishing and applying the coloring system; for preparing the concrete surface; and for constructing and staining the sample panels.

517-115 (20140630)

#### **41. Architectural Surface Treatment Structure B-32-67, Item 517.1050.S.01.**

##### **A Description**

Construct a concrete masonry architectural surface treatment on the exposed concrete surfaces of the structure, as detailed in the plans and as hereinafter provided.

##### **B Materials**

Use form liners that attach easily to the forming system, and do not compress more than 1/4-inch when poured at a rate of 10 vertical feet/hour.

Use a release agent that is compatible with the form liner and coloring materials.

Wall ties will have set "break-backs" at a minimum of 3/4-inches from the finished concrete surface.

##### **C Construction**

###### **C.1 Equipment**

Equipment and tools necessary for performing all parts of the work will be satisfactory as to design, capacity, and mechanical condition for the purposes intended. Repair, improve, replace, or supplement all equipment that is not maintained in full working order, or which is proven inadequate to obtain the results prescribed.

###### **C.2 Form Liner Preparation**

Clean the form liner prior to each pour and ensure that it is free of any build-up. Visually inspect each liner for blemishes or tears, and repair if necessary per manufacturer's recommendations.

Apply form release per manufacturer's recommendations.

###### **C.3 Form Liner Attachment**

Place adjacent liners less than 1/4-inch from each other, attach liner securely to forms according to the manufacturer's recommendations, and coordinate wall ties with form liner and form manufacturer, e.g., diameter, size, and frequency.

###### **C.4 Surface Finishing**

Ensure that the textured surface is free of laitance; sandblasting is not permitted.

Grind or fill pouring blemishes.

##### **D Measurement**

The department will measure Architectural Surface Treatment (Structure) in area by the square foot of architectural surface, 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
517.1050.S.01	Architectural Surface Treatment Structure B-32-67	SF

Payment is full compensation for producing the proposed architectural surface treatment including: preparing the foundation; finishing and protecting the surface treatment; and for properly disposing of surplus material.

517-150 (20110615)

## **42. Structure Overcoating Cleaning and Priming Structure B-32-67, Item 517.3000.S.01.**

### **A Description**

This special provision describes cleaning and painting with two or three coats of paint the metal surfaces as hereinafter provided.

#### **A.1 Areas to be Cleaned and Painted**

Structure B-32-67

1. Two Coat Area: 4300 SF with SP 1 cleaning.
2. Three Coat Area:
  - 0 SF with SP 2 cleaning.
  - 430 SF with SP 3 cleaning.
  - 0 SF with SP 11 cleaning.
  - 430 SF total three-coat area.

### **B (Vacant)**

### **C Construction**

#### **C.1 Surface Preparation**

Prior to overcoating or power tool cleaning, solvent clean all surfaces to be coated according to SSPC-SP1. A SSPC-SP 3 power Tool Cleaning according to Steel Structures Painting Council Specification 3 will be required on all metal surfaces to be painted with a three-coat system. Prime the same day, or re-clean before application, all metal surfaces receiving a No. 3 cleaning.

Remove all abrasive or paint residue from steel surfaces with a High Efficiency Particulate Abatement (HEPA-VAC) vacuum cleaner equipped with a brush-type cleaning tool, or by double blowing. If the double blowing method is used, vacuum the exposed top surfaces of all structural steel, including flanges, longitudinal stiffeners, splices, plates, and hangers, after the double blowing operations are completed. The air line used for blowing the steel clean will have an inline water trap and the air will be free of oil and water as it leaves the air line.

Take care to protect freshly coated surfaces from subsequent cleaning operations. Thoroughly wire brush damaged primed surfaces with a non-rusting tool. Clean and re-prime the brushed surfaces within the time recommended by the manufacturer.

## **C.2 Painting**

Paint by applying two or three coats of an approved coating system as specified herein to the surfaces as described in A.1 from the department's approved products list.

## **C.3 Coating Application**

Apply paint in a neat, workmanlike manner. The resultant paint film will be smooth and uniform without skips or areas of excessive paint. Apply coating according to the manufacturer's recommendations.

Prior to applying the prime coat, coat with primer all edges, rivet and bolt heads, nuts and washers by using either a brush, roller, or spray application.

Dry Film Thickness per coat will be a minimum of 3-mil. The dry film thickness will be determined by use of a magnetic film thickness gage. The gage will be calibrated for dry film thickness measurement according to SSPC-PA 2.

During surface preparation and coating application, the ambient and steel temperature will be between 39 and 100 degrees F. The steel temperature will be at least 5 degrees F above the dew point temperature, and the relative humidity will not exceed 85%.

## **D Measurement**

The department will measure Structure Overcoating Cleaning and Priming (Structure), completed according to the contract and accepted, as a single complete 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
517.3000.S.01	Structure Overcoating Cleaning and Priming Structure B-32-67	LS

Payment is full compensation for preparing and cleaning the designated surfaces; and for furnishing and applying the paint.  
517-036 (20080501)

## **43. Containment and Collection of Waste Materials Structure B-32-67, Item 517.4000.S.01.**

### **A Description**

This special provision describes furnishing and erecting tarpaulins to contain, collect and store the spent material from surface preparation of steel surfaces, collecting such spent

material, and labeling and storing the spent material in waste containers according to the contract and as hereinafter provided.

#### **B Materials**

Provide 5-gallon lidded plastic containers for containing the spent material.

#### **C Construction**

Erect tarpaulins or other materials to collect all of the spent material from power tool cleaning. Consider and treat all spent material as hazardous waste because it contains lead.

Collect and store all waste material collected by this operation at the bridge site for disposal. Collect and store all waste materials at the end of each workday or more often if needed. Store materials in 5-gallon lidded plastic containers.

Label each container with the date the first waste was placed in the container and the words "Hazardous Waste – EPA Waste Code D008." Lock and secure all containers at the end of each workday. Keep the containers covered at all times except to add or remove waste material. Store the containers in an accessible and secured area, not located in a storm water runoff course, flood plain or exposed to standing water.

Collect the spent debris by vacuuming, shoveling, sweeping, or by channeling it directly to disposal containers. The enclosure will be thoroughly cleaned at the end of each work day.

#### **D Measurement**

The department will measure Containment and Collection of Waste Materials (Structure), completed according to the contract and accepted, as a single complete unit of work for each structure designated in the contract.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
517.4000.S.01	Containment and Collection of Waste Materials Structure B-32-67	LS

Payment is full compensation for designing, erecting, operating, maintaining and disassembling the containment devices; collecting, labeling and storing spent materials in appropriate containers.

517-037 (20080902)

### **44. Pipe Culverts.**

*Modify paragraph 4 of standard spec 520.3.3 as follows:*

Use annular rubber or plastic gaskets conforming to standard spec 607.2 instead of the geotextile fabric joint wrap. Construction methods for sealing joints with these sealers will conform to standard spec 607.3.4.



**45. Storm Sewer.**

*Modify standard spec 608.3.4 paragraph 1 as follows:*

Make joints for concrete pipe with annular rubber or plastic gaskets.

**46. Cover Plates Temporary, Item 611.8120.S.**

**A Description**

This special provision describes furnishing, installing and removing a steel plate to cover and support asphaltic pavement and traffic loading at manholes, inlets and similar structures during milling and paving operations.

**B Materials**

Provide a 0.25-inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

**C (Vacant)**

**D Measurement**

The department will measure Cover Plates Temporary 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
611.8120.S	Cover Plates Temporary	Each

Payment is full compensation for furnishing, installing, and removing the cover plates. The steel plates will become the property of the contractor when no longer needed in the contract work.

611-006 (20151210)

**47. Insulation Board Polystyrene 2-Inch, Item 612.0902.S.01.**

**A Description**

This work consists of furnishing and installing extruded polystyrene insulation board for frost protection. Insulation board shall be installed for frost protection on sanitary service laterals, water service laterals, or other items as directed by the engineer.

**B Materials**

All insulation board materials will conform to the ASTM Specifications latest designation specifications.

These standards for work and materials are also supplemented according to the standard specifications for Sewer Construction, City of La Crosse, Wisconsin. The city specifications are available from the La Crosse City Engineer's Office, 400 La Crosse Street, La Crosse WI 54601, (608) 789-7505.

1. Polystyrene Insulation Board: Insulation board shall be closed cell, high compressive strength sheet type polystyrene insulation intended for engineered applications where high compressive strength is necessary. The material shall conform to ASTM C578 Type V for 100 psi minimum loading, latest designation. Approved manufactures of polystyrene insulation board Owen Corning, Dow Chemicals, or an approved equal.

### **C Construction**

Insulation Board Polystyrene 2-Inch, shall be installed according to City of La Crosse Standard Specifications.

Insulation board shall be installed as directed by the engineer. Insulation board shall be placed on base of compacted sand that has been leveled and smoothed to give full support to the insulation board. The depth of installation shall be determined by the engineer. Insulation board shall extend a minimum of 2 feet past the outside of the pipe to be insulated. Backfill over the insulation board shall be a minimum of 6" of fine grain material before general backfill is placed.

### **D Measurement**

The department will measure Insulation Board Polystyrene 2-Inch by the square foot, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
612.0902.S.01	Insulation Board Polystyrene 2-Inch	SF

Payment is full compensation for furnishing all work and materials including the sand base, fine grain backfill, and incidentals necessary to complete the work according to the contract.

## **48. Landscape Planting Surveillance and Care Cycles.**

This bid item will cover landscape planting surveillance and care performed under Furnishing and Planting Perennial Plant Materials.

If the care specialist fails to perform any of the required care cycles as specified in standard spec 632.3.19.1, the department will assess daily damages in the amount of \$500 to cover the cost of performing the work with other forces. The department will assess these damages for each day the requirements of the care cycle remain incomplete, except when the engineer extends the required time period.

#### **49. Furnishing and Planting Plant Materials.**

*Remove and replace standard spec 632.2.6 as follows:*

Mulch all plants with 3" double shredded hardwood mulch that is substantially free of noxious weed seeds and objectionable foreign material. Obtain the engineer's approval for the mulch prior to installation.

#### **50. Traffic Control Surveillance and Maintenance 1071-06-83, Item 643.0200.S.01; 7190-03-72, Item 643.0200.S.02; 1071-06-82, Item 643.0200.S.03.**

##### **A Description**

This special provision describes providing personnel to inspect and maintain the traffic control devices, furnished, and installed, in proper condition.

##### **B Materials**

Provide one person, called the traffic control specialist, all necessary vehicles, equipment, tools, and repair materials. Provide other personnel to accomplish the inspection and maintenance if needed.

##### **C Construction**

Inspection and maintenance includes all traffic control signs or devices included in the contract, including those on detour routes. Begin when the first traffic control sign or device is put into operation and end when the last traffic control sign or device is removed from operation.

1. Ensure that the traffic control specialist inspects the traffic control signs and devices at least twice each workday and once each non-workday with at least one of the daily inspections during daytime. Separate inspections done on workdays by at least 8 hours or the amount of time from the beginning to the end of that day's work operations, whichever is less. During each inspection, clean, repair, or replace each traffic control sign or device not performing as intended, as necessary.
2. Ensure that the traffic control specialist inspects each reflective traffic control sign or device at least once each week during hours of darkness. View the signs and devices using low beam vehicle headlights to ensure reflectorization is unimpaired. Clean, repair, or replace each reflectorized traffic control sign or device not performing as intended, as necessary, before sunset of the next calendar day, or as the engineer directs otherwise.
3. Ensure that the traffic control specialist meets once each workday with the department representative responsible for traffic control on the project to discuss possible problems with the traffic control.

4. Ensure that the traffic control specialist submits a written report weekly to the engineer documenting both daytime and nighttime inspections.
5. Make the control specialist, or other contractor-designated person, available 24 hours per day, 7 days per week to clean, repair, or replace traffic control devices not performing as intended throughout the period traffic control signs and devices are operating under this contract. Provide to the engineer, the County Sheriff, and the State Patrol Region Headquarters responsible for that county the telephone number to contact the control specialist or other contractor-designated person. Ensure that the control specialist, or other designated person, is able to reach any location within the contract limits, or on detour routes, within 2 hours of being contacted, and can promptly accomplish the necessary cleaning, repair, or replacement.

#### **D Measurement**

The department will measure the Traffic Control Surveillance and Maintenance bid items by the day, acceptably completed. The measured quantity will equal the number of calendar days from the date the first traffic control sign or device is placed into operation through the date the last traffic control sign or device is removed from operation.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
643.0200.S.01	Traffic Control Surveillance and Maintenance 1071-06-83	DAY
643.0200.S.02	Traffic Control Surveillance and Maintenance 7190-03-72	DAY
643.0200.S.03	Traffic Control Surveillance and Maintenance 1071-06-82	DAY

Payment is full compensation for Payment for the Traffic Control Surveillance and Maintenance bid items is full compensation for providing all labor, materials, tools, equipment, vehicles, and incidentals, including reports and telephone charges, necessary to complete the work; and for partially or fully covering or uncovering signs not paid separately under the Traffic Control Covering Signs bid items. The department will not pay for replaced traffic control signs or devices under this bid item; replacement is incidental to the respective contract bid item or items.

643-016 (20160607)

### **51. Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch, Item 646.0842.S; 8-Inch 646.0844.S.**

#### **A Description**

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

## **B Materials**

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

*Replace standard spec 646.2.3 (1) with the following:*

Furnish Utah Performance beads with the following gradation:

Utah Bead Gradation

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

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

## **C Construction**

### **C.1 General**

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

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

### **C.2 Groove Depth**

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

### **C.4 Groove Width – Longitudinal Markings**

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

### **C.5 Groove Position**

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

## **C.6 Groove Cleaning**

### **C.6.1 Concrete**

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

If water is used in the grooving process, allow the groove to dry a minimum of 24 hours after groove cleaning, and prior to pavement marking application. The groove surface shall be clean and dry before applying the marking. Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 120 psi air pressure to clean the groove.

### **C.6.2 Asphalt**

Groove pavement five or more days after paving.

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

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

Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove.

## **D Measurement**

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

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	LF
646.0844.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 8-Inch	LF

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

646-024 (20160607)

## **52. Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch, 8-Inch, Item 646.0843.S.**

### **A Description**

This special provision describes furnishing, grooving and installing preformed wet reflective pavement marking contrast tape for grooved applications as shown on the plans, according to standard spec 646, and as hereinafter provided.

### **B Materials**

Furnish wet reflective pavement marking contrast tape and adhesive material, per manufacturer's recommendation if required, from the department's approved products list.

Furnish a copy of the manufacturer's recommendations to the engineer before preparing the pavement marking grooves.

### **C Construction**

#### **C.1 General**

For quality assurance, provide the project engineer and the region's Marking Section evidence of manufacturer training in the proper placement and installation of pavement marking contrast tape.

Plane the grooved lines according to details in the plan and per manufacturer's recommendations. Use grooving equipment with a free-floating, independent cutting head. Plane a minimum number of passes to create a grooved surface per manufacturer's recommendations.

#### **C.2 Groove Depth**

Cut the groove to a depth of 120 mils  $\pm$  10 mils from the pavement surface or, if tined, from the high point of the tined surface. To measure the depth, the contractor may use a depth plate placed in the groove and a straightedge placed across the plate and groove, or the contractor may use a straightedge placed perpendicular to the groove. The department may periodically check groove depths.

#### **C.3 Groove Width – Longitudinal Markings**

Cut the groove one-inch wider than the width of the tape.

#### **C.4 Groove Position**

Position the groove edge according to plan details. Groove a minimum of 4 inches, but not greater than, 12 inches from both ends of the tape segment. Achieve straight alignment with the grooving equipment.

#### **C.5 Groove Cleaning**

##### **C.5.1 Concrete**

Cooling the cutting head with water may be necessary for some applications and equipment. If cooling water is necessary, flush the groove immediately with high-pressure water after

cutting to remove any build-up of cement dust and water slurry. If this is not done, the slurry may harden in the groove.

If water is used in the grooving process, allow the groove to dry a minimum of 24 hours after groove cleaning, and prior to pavement marking application. The groove surface shall be clean and dry before applying the adhesive, and the pavement marking tape. Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 120 psi air pressure to clean the groove; use of the air blower does not decrease the amount of time required for the groove to dry.

### **C.5.2 New Asphalt**

Groove pavement five or more days after paving.

Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove.

### **C.5.3 Existing Asphalt**

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

Use a high-pressure air blower with at least 185 ft<sup>3</sup>/min air flow and 90 psi air pressure to clean the groove.

## **C.6 Tape Application**

Apply the tape when both the air and surface temperature are 40 degrees F and rising.

Apply tape in the groove as per manufacturer's recommendations. If manufacturer's recommendations require surface preparation adhesive

- 1) For the Southeast Region and the ozone non-attainment Northeast Region counties of Sheboygan, Manitowoc, and Kewaunee:
  - Apply SPA-60 during May 1 to September 30, both dates inclusive due to Volatile Organic Compound Limitations..
  - Apply P-50 during October 1 to April 30, both dates inclusive. –
- 2) For the remainder counties:
  - Apply either adhesive.

Refer to the manufacturer's instructions for determining when the surface preparation adhesive is set.



Tamp the wet reflective pavement marking contrast tape with a tamper cart roller, with a minimum of a 200-lb load, cut to fit the groove. Tamp a minimum of three complete cycles (6 passes) with grooved modified tamper roller cart.

**D Measurement**

The department will measure Pavement Marking Grooved Wet Reflective Contrast Tape (Width) for grooved applications in length by the linear foot of tape placed according to the contract and accepted.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF

Payment is full compensation for cleaning and preparing the pavement surface; furnishing and installing the material; and for removing temporary pavement marking, if necessary.  
646-022 (20120615)

**53. Traffic Signal Face 3-12 Inch Vertical, Item 658.0110; Traffic Signal Face 4-12 Inch Vertical, Item 658.0115; Pedestrian Signal Face 16-Inch, Item 658.0416.**

**A Description**

This provision requires the components of the Lighting and Traffic Signal Units to be painted black.

*Replcace standard spec 658.2.2.2 (1) with the following:*

Furnish Polycarbonate resin housings, doors, visors and backplates. Use black colored housings and dull black door faces, visors and backplates. Ensure that the door is sized for 12-inch nominal diameter lenses and held shut with eyebolts secured with wing nuts. Use cut away or tunnel type visors as the plans show. Use flat backplates the project 5 inches beyond all sides of the signal housing.

*Replace standard spec 658.2.3.2 (1) with the following:*

Furnish Polycarbonate resin housings, doors, and visors. Use black colored housings and dull black door faces and visors. For 16-inch heads, mount a z-crate visor and gasket to the door with stainless steel tabs. Drill the housing for top and bottom pipe mounting.

**54. Temporary Traffic Signals for Intersections STH 35 and George Street, Item 661.0200.01; STH 35 and USH 53, Item 661.0200.02; Palace Street and USH 53, Item 661.0200.03; Eastbound Ramp Terminal, Item 661.0200.04; Westbound Ramp Terminal, Item 661.0200.05.**

This work will be according to the requirements of standard spec 661, except as hereinafter amended.

*Replace standard spec 661.2.1 (1) as follows:*

Furnish TS2 Type 1 control cabinet, signal controller and control equipment. Cabinet and controller must be compatible with a department supplied Gridsmart video detection system. Cabinet must be equipped with open shelf space, BIU and SDLC connector to be used by the Gridsmart controller. Video detection will be installed and maintained by the department. Provide a cabinet with a Corbin #2 door lock and an access door that allows placing the controller in emergency flash. Test traffic signal control cabinets before installation.

*Add the following to standard spec 661.3.1.4(1):*

Arrange for weekly inspections with the engineer to check the height of the span wire above the roadways to ensure that the bottom of the traffic signal heads remain within the minimum and maximum heights allowed above the roadway. Make all height adjustments within 1-hour of an inspection indicating that adjustments are required. Notify the engineer in writing upon completion of all necessary adjustments. Maintain a written log to properly document the date of each weekly inspection, the heights above the roadway, the roadway clearance after adjustments have been made and acceptance by the engineer. Provide all documentation related to the weekly span wire height checks as well as all records related to maintenance performed on the temporary traffic signal installations to the engineer.

*Add the following to standard spec 661.3.1.4:*

The department will install video camera on contractor pole or poles along with associated wire. A controller for video detection in cabinet. Associated communication equipment will also be installed in cabinet. The department will need access to cabinet.

All timing and timing changes will be done by department.

*Replace standard spec 661.5(2) with the following:*

Payment for the Temporary Traffic Signals for Intersections bid item is full compensation for providing, operating, maintaining, and repairing the complete temporary installation; for removal; for drilling holes; furnishing and installing all materials, including bricks, and coarse aggregate; for excavation, bedding, and backfilling, including any sand or other required materials; furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed

areas; for properly disposing of surplus materials; for making inspections; and for cleaning up and properly disposing of waste.

Payment also includes the following:

1. Furnishing and installing the replacement equipment.
2. All utility charges for installation, disconnection, and energy service through project completion.
3. Removal of service and site restoration.

**55. Ramp Closure Gates Hardwired 37-FT, Item 662.1037.S; 40-FT, Item 662.1040.S.**

**A Description**

This special provision describes providing hardwired 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 specification 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.

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 A 153.

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 hardwire power system and connections conforming to the following:

1. Cabinet

Furnish cabinet assemblies, power wire terminal strips, and power supplies for the on-ramp closure gate systems.

The cabinet will be the following dimensions: 9-inches wide, 15-inches high, and 5-inches deep.

Minimum wall thickness of the aluminum castings will be 3/16-inch.

Cabinet body will have a cast rain hood over the top of the door opening. Hinges will consist of 3/6-inch diameter pins in cast hinge bosses that allow door to swing no less than 180° when open.

Cabinet will be capable of being field prepared for top, bottom, or rear mounting and wire entrance holes.

Set screws will be stainless steel.

Assembly will be water resistant by the door flange in full contact with and compressing a neoprene gasket held by an adhesive to a groove cast into the cabinet body.

The cabinets will consist of a cabinet body, door, and latch cast from aluminum alloy 319 or approved equivalent. The door lock will be a standard police lock reinforced with a steel plate which is keyed the same as the standard traffic control cabinets. The cast will be free of voids, pits, dents, molding sand, and excessive foundry grinding marks. All radii will be smooth and intact. Exterior and interior surfaces will be smooth and cosmetically acceptable, free of molding fins, cracks, and other blemishes.

The aluminum will meet the following minimum requirements:

- Yield Strength – 18 ksi
- Tensile Strength – 27 ksi
- Brinell Hardness – 70
- Elongation (% in 2 inches) – 2

The assembly will have an alodine conversion coating to provide corrosion resistance and a proper base for paint adhesion.

Furnish a stainless steel or anodized steel mounting adapter plate to mount the cabinet to a pole with stainless steel banding straps.

2. Power Converter

Furnish the cabinet with a 120 VAC to 12 VDC power converter.

Furnish the cabinet with a 10 position terminal block for the 12 VDC power distribution. 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 terminals will be tin-plated brass with brass clips and clamps.

Furnish gate flasher assemblies conforming to the following:

1. A 2-conductor 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 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:

- Hot = Black or Red
- Neutral = White
- Ground = Green

Furnish a weatherproof hardened steel padlock with a minimum 2 1/4-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 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 cabinet with power supply, flasher controller, and other components. Connect the 120 VAC to 12 VDC power supply to the circuit breaker in the breaker disconnect box. Connect the 120 VAC to 12 VDC power supply to the 10-position terminal block and connect the 12 VDC components to the terminal block.

Connect the 12 VDC terminal strip 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 a 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 vertical, the mercury switches the gate flasher assembly off.

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

*Anthony Vander Weilen can be reached at (608) 789-7878.*

### **C.2 Furnishing Gate Arms**

Under the Ramp Closure Gate Arms Stockpile bid items, furnish and deliver spare arms of the nominal length the bid item indicates conforming to B.2. Deliver spare gate arms to an address provided by:

*Anthony Vander Weilen can be reached at (608) 789-7878.*

### **C.3 Furnishing Flashers**

Under the Ramp Closure Gate Flasher Stockpile bid item, furnish and deliver spare gate flasher assemblies conforming to B.2. Deliver spare gate arms to an address provided by:

*Anthony Vander Weilen can be reached at (608) 789-7878.*

### **D Measurement**

The department will measure the Ramp Closure Gates Hardwired bid items as each individual installation, acceptably completed.

The department will measure the Ramp Closure Gate Arms Stockpile bid items and Ramp Closure Gate Flashers Stockpile as each individual unit, acceptably furnished and delivered.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
662.1037.S	Ramp Closure Gates Hardwired 37-FT	Each
662.1040.S	Ramp Closure Gates Hardwired 40-FT	Each

Payment for the Ramp Closure Gate Hardwired bid items 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.

Payment for the Ramp Closure Gate Arms Stockpile is full compensation for furnishing and delivering spare ramp closure gate arms.

Payment for the Ramp Closure Gate Flashers Stockpile is full compensation for furnishing and delivering ramp spare closure gate flasher assemblies.

662-005 (2014630)

## **56. Crack and Damage Survey, Item 999.1500.S.**

### **A Description**

This special provision describes conducting a crack and damage survey of the residences and business located at Parcels 8, 12, 13, 14, 15, 16, 17, 19, 23, 24, 25, 26 of Right-of-Way Plat 1071-06-23.

This Crack and Damage Survey will consist of two parts. The first part, performed prior to construction activities, will include a visual inspection, photographs, and a written report describing the existing defects in the building(s) being inspected. The second part, performed after the construction activities, will also include a visual inspection, photographs, and written report describing any change in the building's condition.

### **B (Vacant)**

### **C Construction**

Prior to any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Submit a written report of the inspector's name, date of inspection, descriptions and locations of defects, and photographs. The intent of the written report and photographs is to procure a record of the general physical condition of the building's interior and exterior walls and foundation. The report will be typed on bond paper and be in text form.

The photographs will be taken by a professional photographer capable of producing sharp, grain free, high-contrast colored pictures with good shadow details. The photographs will be 3½ inch by 5 inch color prints, glossy, and mounted in protective storage pages with clear slip-in pockets and clear background. Each sheet will hold four prints. The back of each photograph will contain the following information:

ID \_\_\_\_\_  
Building Location \_\_\_\_\_  
View looking \_\_\_\_\_  
Date \_\_\_\_\_  
Photographer \_\_\_\_\_

Prior to the start of any construction activities pertinent to this survey, submit a copy of the written report and photographs to the engineer.

After the construction activities are complete, conduct another survey in the same manner, take photographs, and submit another written report to the engineer.

In lieu of photographs, a professional videographer may be hired to use a video camera capable of producing a video with the clarity required to perform this work.

### **D Measurement**

The department will measure Crack and Damage Survey as single complete 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
999.1500.S	Crack and Damage Survey	LS

Payment is full compensation for providing the before and after written reports, and for photographs or video.

999-010 (20130615)



## **57. Planting Soil Mix, Item SPV.0035.02.**

### **A Description**

This special provision describes Planting Soil Mix, according to standard spec 632, as shown on the plans, and hereinafter described.

### **B Materials**

Furnish planting soil mix conforming to standard spec 632.2.3.4.

### **C Construction**

Remove compacted base from within 6 inches of curbs and pavement of planting beds. Loosen subgrade of planting beds to a minimum depth of 12". Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter. Thoroughly blend planting soil mix off-site before spreading. Do not spread frozen, muddy, or excessively wet planting soil or subgrade. Spread approximately one-third the thickness of planting soil mix over loosened subgrade. Mix thoroughly into top 6 inches of subgrade. Spread planting soil mix, in maximum of 6 inch lifts, to a minimum depth of 12" but not less than required to meet finish grades after natural settlement. Grade planting beds to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

### **D Measurement**

The department will measure Planting Soil Mix by the cubic yard, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.02	Planting Soil Mix	CY

Payment is full compensation for furnishing and placing all materials, including excavation, disposal, hauling, placing, grading.

## **58. Colored Concrete Bands, Item SPV.0035.03.**

### **A Description**

This special provision describes Colored Concrete Bands according to standard spec 405 and 602, as shown on the plans, and hereinafter described. Permeable Base Aggregate ASTM-57 and Permeable Base Aggregate ASTM-2 are covered under separate bid items.

## **B Materials**

### **B.1 Concrete**

Furnish materials conforming to standard spec 602 and 405 of the Standard Specification except replace standard spec 405.2.1(1) with the following:

Integrally color concrete using non-fading pigments conforming to ASTM C979 as follows:

Match the concrete color in reasonably close conformance to Solomon Concrete's Thyme

Ready-Mixed Concrete: ASTM C 94.

Portland Cement: ASTM C 150. Use same source, brand, type, and color throughout project.

Coarse and Fine Aggregates: ASTM C 33. Use same source and color throughout project.

Admixtures: Designed for use with concrete pigments. Do not use calcium chloride or admixtures containing chlorides. Use same admixtures throughout project.

Color Pigment Weight: Maximum 10 percent of cement weight.

Water to Cement Ratio: Maximum 0.50.

Use same concrete mix design throughout project.

Material: Natural and synthetic, milled, blended iron oxide in dry powder form.

Produce uniform and consistent color.

Permanent, inert, stable to atmospheric conditions, sunfast, weather resistant, alkali resistant, water insoluble, lime proof, and nonbleeding.

Free of deleterious fillers and extenders.

Particle Size: 95 to 99 percent minus 325 mesh.

## **C Construction**

Conform to standard spec 405 and 602 and hereinafter described.

### **C.1 Mockup**

Construct mock-ups of concrete with pigments for approval of color by engineer. Approved mock-ups will become the standard for color, appearance and workmanship. Construct mockup using processes and techniques intended for use on permanent work including specified edges and faces. Mockup will remain through completion of the work for use as a quality standard for finished work. Remove mockup when directed. Approved mockups may become part of the completed Work if in place and undisturbed at time of Substantial Completion.

### **C.2 Mixing**

Measure, batch, mix, and deliver concrete with pigments according to manufacturer's instructions.

Ensure mixer is clean and free of washout water before loading.

Load mixer to a minimum of 40 percent capacity.

Do not load mixer beyond recommended capacity.

Add concrete materials to mixer in same order for each batch.

Do not add pigment to mixer as first concrete material.

Maintain consistent amounts of batch water in each batch.

### **C.3 Placing**

Place, finish, and cure concrete with pigments according to manufacturer's instructions.

Allow excess surface water to evaporate before finishing.

Do not over-finish surface. Avoid burning surface.

Do not fog with water or cover surface of colored concrete during initial curing process for a minimum of 48 hours.

### **D Measurement**

The department will measure Colored Concrete Band by the cubic yard, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.03	Colored Concrete Band	CY

Payment is full compensation for developing mix designs and providing sample panels or test slabs; for furnishing pigments; for providing materials, including concrete, reinforcement, and expansion joints; for forming, placing, finishing, protecting, and curing; for special construction procedures required under 405.3; for removing test slabs, restoring the site, and disposing of waste material; and for other costs not included in associated contract bid items.

- 59. Moonshine Yarrow, Item SPV.0060.01; Nodding Wild Onion, Item SPV.0060.02; Summer Beauty Globe Lily, Item SPV.0060.03; Sky-Blue Aster, Item SPV.0060.04; Blue Wild Indigo, Item SPV.0060.05; Blue Wild Indigo 'Purple Smoke', Item SPV.0060.07; Brown Fox Sedge, Item SPV.0060.08; Lanceleaf Tickseed, Item SPV.0060.09; Prairie Splendor Coneflower, Item SPV.0060.11; Rocket City Daylily, Item SPV.0060.12; German Iris, Item SPV.0060.13; Blue Flag Iris, Item SPV.0060.33; Prairie June Grass, Item SPV.0060.34; Cylindrical Blazing Star, Item SPV.0060.35; Spike Gayfeather, Item SPV.0060.36; Yellow Coneflower, Item SPV.0060.37; Prairie Dropseed, Item SPV.0060.38; Blue Vervain, Item SPV.0060.39.**

**A Description**

This special provision describes the furnishing and planting of perennial and ornamental grass plant materials according to the plans. Complete in place at the locations as designated on the plans, or as directed by the engineer conforming to standard spec 632 and as hereinafter provided.

**B Materials**

Plants: Per standard spec 632.1.

Mulch: Mulch all plants with 3” double shredded hardwood mulch per standard spec 632.2.6. Hardwood mulch is incidental to this bid item.

**C Construction**

Install plants as detailed and according with pertinent provisions of standard spec 632 as revised.

**D Measurement**

The department will measure Perennials in units for each, 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	Moonshine Yarrow	Each
SPV.0060.02	Nodding Wild Onion	Each
SPV.0060.03	Summer Beauty Globe Lily	Each
SPV.0060.04	Sky-Blue Aster	Each
SPV.0060.05	Blue Wild Indigo	Each
SPV.0060.07	Blue Wild Indigo ‘Purple Smoke’	Each
SPV.0060.08	Brown Fox Sedge	Each
SPV.0060.09	Lanceleaf Tickseed	Each
SPV.0060.11	Prairie Splendor Coneflower	Each
SPV.0060.12	Rocket City Daylily	Each
SPV.0060.13	German Iris	Each
SPV.0060.33	Blue Flag Iris	Each
SPV.0060.34	Prairie June Grass	Each
SPV.0060.35	Cylindrical Blazing Star	Each
SPV.0060.36	Spike Gayfeather	Each
SPV.0060.37	Yellow Coneflower	Each
SPV.0060.38	Prairie Dropseed	Each
SPV.0060.39	Blue Vervain	Each

Payment is full compensation for providing, transporting, handling, storing, placing, and replacing plant materials; for excavating all plant holes, salvaging topsoil, mixing, and backfilling; for providing and applying all required fertilizer, mulch, water, herbicides, for

disposing of all excess and waste materials. Bid item 632.9101 covers landscape planting surveillance and care for perennial and ornamental grasses.

## **60. Connecting To Existing Inlets, Item SPV.0060.06.**

### **A Description**

This special provision describes constructing the connection to existing inlets.

### **B Materials**

#### **B.1 Annular Space Mortar**

Use materials conforming to the requirements for the class of material named and specified below:

Mortar standard spec 519.2.3

#### **B.2 Patching Mortar/Concrete**

Pre-packaged, polymer-modified, portland-cement, fast-setting, non-sag patching mortar or patching concrete intended for use in patching vertical concrete surfaces and requiring only the addition of water in the field.

### **C Construction**

#### **C.1 Connecting to Existing Inlet**

Make a hole in the existing inlet or manhole large enough to make pipe connection. Make connections between new pipe and existing inlet or manhole as described in standard spec 611.3.2 using annular space mortar to seal the connection.

#### **C.2 Removing Pipe and Patching Opening**

Where indicated, remove temporary connection to inlet when no longer needed. Remove pipe and loose concrete and mortar. Form sides of concrete repair as required. Inside surface of repair shall be flush with inside wall of inlet. Mix, place, and cure patching mortar/concrete in accordance with manufacturer's instructions.

### **D Measurement**

The department will measure Connection to Existing Inlet 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.0060.06	Connection to Existing Inlets	EACH

Payment for Connecting to Existing Inlets bid items is full compensation for providing all material, including all masonry; for furnishing all excavating, backfilling, disposing of surplus material, removing of portion of existing inlet or manhole, formwork for patching opening when no longer needed, and restoring the work site; except the department will pay for the culvert pipe separately.

**61. Plaza Seat Stone Type A, SPV.0060.14; Type B, SPV.0060.15; Type C, Item SPV.0060.16.**

**A Description**

Under this specification for Plaza Seat Stone Type A, Type B, Type C furnish and place the seat wall stones in the location and manner specified in the plans and details. Permeable Base Aggregate is covered under as separate bid item.

**B Materials**

Provide samples of all stone types showing range in color, finish and variations expected in final construction.

**B.1 Plaza Seat Stone**

Provide limestone Plaza Seat Stones that meet the following requirements:

Type: Limestone Outcropping

Size Range:

Type A 24" Width, 18" Height, 24" Length

Type B 24" Width, 18" Height, 48" Length

Type C 24" Width, 18" Height, 72" Length

With 6" tolerance on height and length, and 1" tolerance on width.

Color: Western Buff, 80/20 gold tone pieces vs. grey tone pieces

Sides: Sawn

Top: Bed face or split face

Bottom: Bed face or split face

Ends: Bed face or split face

Shape: As per drawings

Source: Buechel Stone Corporation. W3639 Hwy. H, Chilton, WI 53014.

Phone: (800) 236-4473

Comparable Sources:

Halquist Stone, N51 W23563 Lisbon Road Sussex, WI 53089

Phone: (800) 255-8811

Phone Local: (262) 246-9000

Fax: (262) 246-5735

Quarra Stone, 4301 Robertson Road, Madison, WI 53714-3122

Phone Local: (608) 246-8803

Or approved equal.

**C Construction**

**C.1 Mockup**

At location selected by engineer, furnish and construct a mockup of a continuous section of Plaza Seat Stone to demonstrate aesthetic effects and set quality standards for materials and execution. Construct mockup using processes and techniques intended for use on permanent work including specified edges and faces. Mockup will remain through completion of the

work for use as a quality standard for finished work. Remove mockup when directed. Approved mockups may become part of the completed Work if in place and undisturbed at time of Substantial Completion.

## **C.2 Placement**

Compact and shape permeable base aggregated configure to Plaza Seat Stone shape. Place Plaza Seat Stone as detailed on the plans. Install Plaza Seat Stone so they appear level across each stone.

Backfill and compact around Plaza Seat Stone with aggregate base so as to keep stones from rocking or shifting.

Remove and replace units that are broken, stained, or otherwise damaged or as directed by the engineer. Provide new matching units and install as specified. Clean stonework not less than 6 days after completion of the project.

Adjust stones with input from the engineer as directed to enhance the aesthetic effect.

## **D Measurement**

The department will measure the Plaza Seat Stone Type A, Type B, and Type C in place, and acceptably completed per linear foot along centerline of seat walls.

## **E Payment**

The department will pay for Plaza Seat Stone, measured as above, Type A, Type B, and Type C at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Plaza Seat Stone Type A	Each
SPV.0060.15	Plaza Seat Stone Type B	Each
SPV.0060.16	Plaza Seat Stone Type C	Each

Payment is full compensation for furnishing and placing all materials.

## **62. Lawn Seat Stone Type A, SPV.0060.17; Type B, SPV.0060.18; Type C, SPV.0060.19.**

### **A Description**

Under this specification for Lawn Seat Stone Type A, Type B, Type C furnish and place the seat wall stones in the location and manner specified in the plans and details.

### **B Materials**

Provide samples of all stone types showing range in color, finish and variations expected in final construction.

### **B.1 Lawn Seat Stone**

Provide limestone Lawn Seat Stones that meet the following requirements:

Type: Limestone Outcropping

Size Range:

Type A 24" Width, 18" Height, 24" Length

Type B 24" Width, 18" Height, 48" Length

Type C 24" Width, 18" Height, 72" Length

With 6" tolerance on height, width, and length.

Color: Western Buff, 80/20 gold tone pieces vs. grey tone pieces

Sides: Bed face or natural face

Top: Bed face

Bottom: Bed face

Ends: Bed face or natural face

Shape: As per drawings

Source: Buechel Stone Corporation. W3639 Hwy. H, Chilton, WI 53014.

Phone: 800-236-4473

Comparable Sources:

Halquist Stone, N51 W23563 Lisbon Road Sussex, WI 53089

Phone: (800) 255-8811

Phone Local: (262) 246-9000

Fax: (262) 246-5735

Quarra Stone, 4301 Robertson Road, Madison, WI 53714-3122

Phone Local: (608) 246-8803

Or approved equal.

### **B.2 Dense Graded Base**

Dense graded base material per standard spec 305.

## **C Construction**

### **C.1 Mockup**

At location selected by engineer, furnish and construct a mockup of a continuous section of Lawn Seat Stone to demonstrate aesthetic effects and set quality standards for materials and execution. Construct mockup using processes and techniques intended for use on permanent work including specified edges and faces. Mockup will remain through completion of the work for use as a quality standard for finished work. Remove mockup when directed. Approved mockups may become part of the completed Work if in place and undisturbed at time of Substantial Completion.

### **C.2 Placement**

Excavate trench the appropriate size for the aggregate base. Place and dense graded base material per standard spec 305. Compact and shape dense graded base to configure to Lawn Seat Stone shape. Place Lawn Seat Stone as detailed on the plans. Install Lawn Seat Stone so they appear level across each stone.



Backfill and compact around Lawn Seat Stone with aggregate base so as to keep stones from rocking or shifting.

Remove and replace units that are broken, stained, or otherwise damaged or as directed by the engineer. Provide new matching units and install as specified. Clean stonework not less than 6 days after completion of the project.

Adjust stones with input from the engineer as directed to enhance the aesthetic effect.

#### **D Measurement**

The department will measure the Lawn Seat Stone Type A, Type B, and Type C in place, and acceptably completed per linear foot along centerline of seat walls.

#### **E Payment**

The department will pay for Lawn Seat Stone, measured as above, Type A, Type B, and Type C at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.17	Lawn Seat Stone Type A	Each
SPV.0060.18	Lawn Seat Stone Type B	Each
SPV.0060.19	Lawn Seat Stone Type C	Each

Payment is full compensation for furnishing and placing all materials.

### **63. Bench Type A, Item SPV.0060.20.**

#### **A Description**

This special provision describes furnishing, delivering, and installing Bench Type A at the locations shown on the plans or as directed by the engineer.

#### **B Materials**

Furnish Bench Type A to match the style shown on the plans. Plan details depict the general design of Bench Type A required. Minor deviations in dimensions and profiles will be allowed, provided the requirements specified below and the general style shown in the plans are met.

Provide Bench Type A manufactured according to the details in the plans and with the following materials:

3-year manufacturer's warranty.

#### **B.1 Bench Type A**

Supports: Tubular steel, 2-1/4 inches O.D., 14 gauge.

Frame: Tubular Steel Outer Frame, 2-1/4 inches O.D., 14 gauge. Surrounds steel angle and tee inner members.

Boards: Attached to inner members with black oxide finished stainless steel screws.

Seat and Back Panels:

Nominal Board Size: 1-1/4 inches by 3 inches.

Board Edges and Ends: Eased.  
Wood: Jarrah: Solid stock, select Australian hardwood.  
Aluminum: ASTM B 221, extruded aluminum boards with end caps.  
Mounting: Surface mount.

## **B.2 Finish**

All exposed aluminum surfaces shall be similar to Landscape Form's standard Metallic Silver. Finish shall consist of a rust inhibiting primer, a thermosetting TGIC polyester, UV, chip, and flake resistant powder coat. Finish shall provide the following:

Gloss Consistency; Gardner 60 Degrees, ASTM D 523: Plus or minus 5 percent from standard.

UV Resistance, Color and Gloss, ASTM G 155, Cycle 7: Delta E less than 2 at 2.0 mils and less than 20 percent loss.

Cross-Hatch Adhesion, ASTM D 3359, Method B: 100 percent pass.

Flexibility Test, Mandrel, ASTM D 522: 3 mm at 2 mils.

Erichsen Cupping, ISO 1520: 8 mm.

Impression Hardness, Buchholz, ISO 2815: 95.

Impact Test, ASTM D 2794: 60 inch-pounds at 2.5 mils.

Pencil Hardness, ASTM D 3363: 2H minimum.

Corrosion Resistance, 1,500-Hour Test, ASTM B 117: Max undercutting 1 mm.

Humidity Resistance, 1,500-Hour Test, ASTM D 2247: Max blisters 1 mm.

## **B.3 Connections**

Anchor bolts: Stainless steel and per the manufacturer's recommendations.

## **B.4 Concrete Slab**

Per standard spec 602.

## **C Construction**

Concrete slab per standard spec 602

Assemble and install per manufacturer's recommendations at the locations shown on the plan. Benches will be level, within 4-5% tolerance. Review and adjust locations until approved by the engineer prior to installing benches.

## **D Measurement**

The department will measure Bench Type A per each 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.0060.20	Bench Type A	Each

Payment is full compensation for providing materials, including concrete, reinforcement, expansion joints; for excavating and preparing the foundation; backfilling and disposing of surplus material; for placing, finishing, protecting, and curing; furnishing, transporting and installing all materials; and restoring the work site.

#### **64. Bike Rack, Item SPV.0060.21.**

##### **A Description**

This special provision describes furnishing and installing Bike Racks as shown on the plans and as directed by the engineer.

##### **B Materials**

Furnish Bike Racks to match the style shown on the plans. Plan details depict the general design of Bike Rack required. Minor deviations in dimensions and profiles will be allowed, provided the requirements specified below and the general style shown in the plans are met.

Provide Bike Rack manufactured according to the details in the plans and with the following materials:

3-year manufacturer's warranty

##### **B.1 Bike Rack**

Frame: Aluminum Casting – A356 ASTM B108 or A360 ASTM B108 and LFI 7.4.2-A1.

Mounting block for surface mount option: Stainless steel casting.

Embedded Hardware Pack: (2) 1/2-13 UNC-2A fully threaded rods, 5" length, with Magni-coat.

Surface Mount Hardware Pack: (2) 3/8-16 x 1-1/2" socket head cap screws with Magni-coat. (2) 3/8-16 x 1-1/2" set screws with Magni-Coat to secure socket head cap screws in casting included.

Mounting: Surface mount.

##### **B.2 Finish**

All exposed aluminum surfaces shall be similar to Landscape Form's standard Metallic Silver. Finish shall consist of a rust inhibiting primer, a thermosetting TGIC polyester, UV, chip, and flake resistant powder coat. Finish shall provide the following:

Gloss Consistency; Gardner 60 Degrees, ASTM D 523: Plus or minus 5 percent from standard.

UV Resistance, Color and Gloss, ASTM G 155, Cycle 7: Delta E less than 2 at 2.0 mils and less than 20 percent loss.

Cross-Hatch Adhesion, ASTM D 3359, Method B: 100 percent pass.

Flexibility Test, Mandrel, ASTM D 522: 3 mm at 2 mils.

Erichsen Cupping, ISO 1520: 8 mm.

Impression Hardness, Buchholz, ISO 2815: 95.

Impact Test, ASTM D 2794: 60 inch-pounds at 2.5 mils.

Pencil Hardness, ASTM D 3363: 2H minimum.

Corrosion Resistance, 1,500-Hour Test, ASTM B 117: Max undercutting 1 mm.

Humidity Resistance, 1,500-Hour Test, ASTM D 2247: Max blisters 1 mm.

### **B.3 Connections**

Anchor bolts: Stainless steel and per the manufacturer's recommendations.

### **B.4 Concrete Slab**

Per standard spec 602.

### **C Construction**

Concrete slab per standard spec 602.

Install per manufacturer's recommendations in the locations shown on the plans and as directed by the engineer. Review and adjust locations until approved by the engineer prior to anchoring the bike rack.

### **D Measurement**

The department will measure Bike Rack per each 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.0060.21	Bike Rack	Each

Payment is full compensation for furnishing, transporting and installing all materials.

## **65. Surface Mounted Trash Receptacle, Item SPV.0060.22.**

### **A Description**

This special provision describes furnishing and installing Surface Mounted Trash Receptacles as shown on the plans and as directed by the engineer.

### **B Materials**

Furnish Surface Mounted Trash Receptacles to match the style shown on the plans. Plan details depict the general design of the Surface Mounted Trash Receptacle required. Minor deviations in dimensions and profiles will be allowed, provided the requirements specified below and the general style shown in the plans are met:

3-year manufacturer's warranty

### **B.1 Receptacle**

Frame Assembly: Four extruded aluminum corners, welded to (4) 3/16" thick aluminum side panels. The aluminum assembly will be attached to an iron base with carbon steel magni-coated fasteners.

Top: Molded from linear medium density polyethylene with 0.200" wall thickness. Tops are attached to receptacle with a cable.

Liners: Molded from 100% recycled medium density polyethylene.

Ash Pan: 14-gauge spun aluminum metal. The black funnel is constructed of 18-gauge spun steel.

## **B.2 Finish**

All exposed aluminum surfaces shall be similar to Landscape Form's standard Metallic Silver. Finish shall consist of a rust inhibiting primer, a thermosetting polyester, UV, chip, and flake resistant powder coat. Finish shall provide the following;

Gloss Consistency; Gardner 60 Degrees, ASTM D 523: Plus or minus 5 percent from standard.

UV Resistance, Color and Gloss, ASTM G 155, Cycle 7: Delta E less than 2 at 2.0 mils and less than 20 percent loss.

Cross-Hatch Adhesion, ASTM D 3359, Method B: 100 percent pass.

Flexibility Test, Mandrel, ASTM D 522: 3 mm at 2 mils.

Erichsen Cupping, ISO 1520: 8 mm.

Impression Hardness, Buchholz, ISO 2815: 95.

Impact Test, ASTM D 2794: 60 inch-pounds at 2.5 mils.

Pencil Hardness, ASTM D 3363: 2H minimum.

Corrosion Resistance, 1,500-Hour Test, ASTM B 117: Max undercutting 1 mm.

Humidity Resistance, 1,500-Hour Test, ASTM D 2247: Max blisters 1 mm.

All exposed polyethylene surfaces shall be similar to Landscape Form's standard Otter.

## **B.3 Connections**

Anchor bolts: Stainless steel and per the manufacturer's recommendations.

## **B.4 Concrete Pad**

Per standard spec 602.

## **C Construction**

Concrete pad per standard spec 602.

Install per manufacturer's recommendations in the locations shown on the plans and as directed by the engineer. Review and adjust locations until approved by the engineer prior to anchoring the waste receptacle.

## **D Measurement**

The department will measure Surface Mounted Trash Receptacles per each 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.0060.22	Surface Mounted Waste Receptacle	Each

Payment is full compensation for furnishing, transporting and installing all materials.

## **66. Bearing Repair, Item SPV.0060.23.**

### **A Description**

This special provision describes removing the expansion bearings at the abutments, blast cleaning and painting them, repairing keeper bars, and reinstalling the bearings, according to the plans and as hereinafter provided.

### **B Materials**

Furnish a complete epoxy coating system from the department's approved product list. The color of epoxy shall be white and the urethane coating material will match the color number shown on the plans according to Federal Standard Number 595B, as printed in 1989. Supply the engineer with the product data sheets before any coating is applied. The product data sheets shall indicate the mixing and thinning directions, the recommended spray nozzles and pressures, the minimum drying time for shop or field applied coats, and the recommended procedures for coating galvanized bolts, nuts, and washers.

### **C Construction**

#### **C.1 General**

Completely remove the Rocker Plate at the abutment expansion bearings. The Rocker Plate is to be removed, repaired, cleaned and painted. The broken keeper plates on the rocker plate are to be repaired as per plan. The masonry plate attached to the concrete abutment and the top plate attached to the steel girder are not to be removed but be cleaned and painted.

Blast-clean all bearing components to a near white finish and paint all bearing components with one of the coating systems specified above. As required, use adequate containment methods to contain material resulting from preparation of painted steel surfaces for painting.

#### **C.2 Coating Application**

Apply paint in a neat, workmanlike manner, and according to the manufacturer's instructions and recommendations.

### **D Measurement**

The department will measure Bearing Repair as each individual bearing, 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.0060.23	Bearing Repair	Each

Payment is full compensation for removing, cleaning, repairing, painting and reinstalling bearings.

**67. Spotting Scope Type B, Item SPV.0060.25; Type A, Item SPV.0060.29.**

**A Description**

This special provision describes furnishing and installing Spotting Scopes as shown on the plans and as directed by the engineer.

**B Materials**

Provide non-coin operated spotting scope constructed of rigid aluminum alloy with all brass and stainless steel internal parts meeting the following requirements:

Optics: Optical interiors are anodized and sealed against corrosion. Precision ground lenses and prisms that are hard coated with front and rear lenses protected by tamper-proof optically flat surfaces Power: 20x

Mounting: Surface mount

Castings: 356 Aluminum Alloy

Column:

Type A: 4½" Diameter Aluminum Stanchion

Type B: 4½" Diameter Aluminum Stanchion, ADA complaint

Base

Type A: Full base, 30 inch diameter

Type B: ADA Compliant

Telescope Width: 7 Inches

Telescope Length: 25 inches (88.900 cm)

Housing Movement: 360° Rotation, 30° Up and 40° Down

Field of View: 121' at 1,000 Yards

Finish: Powder coated Blue

Concrete Footings: Per standard spec 636

**C Construction**

Concrete Footing: Per standard spec 636.

Install per manufacturer's recommendations in the locations shown on the plans and as directed by the engineer. Review and adjust locations until approved by the engineer prior before anchoring the Spotting Scopes.

**D Measurement**

The department will measure Spotting Scope (type) per each 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.0060.25	Spotting Scope Type B	Each
SPV.0060.29	Spotting Scope Type A	Each

Payment is full compensation for furnishing and placing all materials, including anchor bolts and any coring or methods required to place anchor bolts.

**68. Decorative Lighting Unit 20-Foot, Item SPV.0060.26.**

**A Description**

This special provision describes furnishing and installing decorative lighting poles, arms, transformer bases, and fixtures as specified below and conforming to relevant portions of standard spec 657 and 659.

**B Materials**

**B.1 Pole**

Install 20-Foot, aluminum pole.

**B.3 Transformer Base**

Install Transformer Bases Breakaway 11 ½-Inch Bolt Circle.

**B.4 Luminaire Arm**

Install Luminaire Arm Single Member 6-foot. Clamp size shall match the pole.

**B.5 Luminaire**

Install Luminaires Utility LED A.

**B.6 Finish**

All exposed surfaces of the decorative lighting unit shall be factory black powder coat finish to match the roadway lighting elements.

**C Construction**

Construct and install decorative lighting units according to the manufacturer's specifications and conforming to relevant portion of standard spec 657 and 659.

Components when assembled shall appear as one uniformly colored unit. Touch up paint shall be included and applied by the contractor to all scratches and construction blemishes as to match the original black factory color and finish.

**D Measurement**

The department will measure Decorative Lighting Unit 20-Foot by each individual decorative lighting 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.0060.26	Decorative Lighting Unit 20-Foot	Each



Payment is full compensation for furnishing and installing all materials including poles, luminaire arms, transformer base, luminaires, fittings, grounding lugs, hardware, and attachments; and for fusing.

## **69. Decorative Bollard, Item SPV.0060.27.**

### **A Description**

This special provision describes furnishing and installing decorative bollards as specified below and conforming to relevant portions of standard spec 657 and 659.

### **B Materials**

#### **B.1 Design Intent**

Furnish and install decorative bollards as to match the style shown on the plans. Plan details depict the general design of decorative bollard required. Minor deviations in dimensions and profiles will be allowed, provided the requirements specified below and the general style shown in the plans are met.

#### **B.2 Bollard**

Bollard height shall be as such in order to provide the desired mounting height shown in the plans. Bollard shall be entirely cast aluminum. Bollard shall have a 6 year LED warranty.

#### **B.3 Lamp**

Bollard lamp shall have be 11 Watt, 9 LED, 350mA driver, 550 lumens, 4K color temperature, diffused acrylite lens, type 5 distribution. Shall be surge protect from 100-277 volt 50-60 hertz, class 2 LED driver.

#### **B.4 Finish**

All exposed surfaces shall be black to match the rest of the lighting. Finish shall consist of a rust inhibiting primer, a thermosetting polyester powder coat, UV, chip and flake resistant. Finish shall provide the following;

1. Gloss Consistency; Gardner 60 Degrees, ASTM D 523: Plus or minus 5 percent from standard.
2. UV Resistance, Color and Gloss, ASTM G 155, Cycle 7: Delta E less than 2 at 2.0 mils and less than 20 percent loss.
3. Cross-Hatch Adhesion, ASTM D 3359, Method B: 100 percent pass.
4. Flexibility Test, Mandrel, ASTM D 522: 3 mm at 2 mils.
5. Erichsen Cupping, ISO 1520: 8 mm.
6. Impression Hardness, Buchholz, ISO 2815: 95.
7. Impact Test, ASTM D 2794: 60 inch-pounds at 2.5 mils.
8. Pencil Hardness, ASTM D 3363: 2H minimum.
9. Corrosion Resistance, 1,500-Hour Test, ASTM B 117: Max undercutting 1 mm.
10. Humidity Resistance, 1,500-Hour Test, ASTM D 2247: Max blisters 1 mm.

### **C Construction**

Construct and install decorative bollards according to the manufacturer's specifications and conforming to relevant portion of standard spec 657 and 659.

**D Measurement**

The department will measure Decorative Bollards by each individual decorative bollard, 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.0060.27	Decorative Bollard	Each

Payment is full compensation for furnishing and installing all materials including housing, lamp, fittings, brackets, grounding lugs, hardware, attachments; and fusing.

**70. Concrete Bollard Base, Item SPV.0060.28.****A Description**

This special provision describes furnishing and installing concrete bollard bases as specified below, detailed in the plans, and conforming to relevant portions of standard spec 654.

**B Materials**

Construct 18-inches x 18-inches square concrete base.

Concrete Bollard Bases shall have bolt pattern conforming to the selected bollard.

Concrete base shall have a 5-ft embedment depth.

Concrete bollard base top shall below grade to accommodate the colored concrete, which shall be poured on top prior to mounting of the bollard. This depth shall coordinate with the bottom of the colored concrete. Anchor bolt length and conduit heights shall also be adjusted accordingly.

**D Measurement**

The department will measure Concrete Bollard Bases by each individual concrete bollard base, 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.0060.28	Concrete Bollard Base	Each

Payment for the Concrete Bollard Base item is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor bolts, nuts, and washers; for bar steel reinforcement, if required; and for excavating, backfilling, and disposing of surplus materials.

**71. Inlets 5-FT Diameter, Item SPV.0060.30; Inlets 6-FT Diameter, Item SPV.0060.31.**

**A Description**

This special provision describes furnishing and installing Inlets according to the pertinent provisions of standard spec 611 and as hereinafter provided.

**B Materials**

Furnish materials that conform to the requirements of the standard spec 611.2 and the following requirements.

Inlet diameter shall be 5 or 6 feet.

Minimum wall thickness shall be 6 inches for precast inlets.

Precast flat slab tops and bases shall have a minimum thickness of 8 inches.

Inlet cover opening shall be 2-ft x 3-ft.

**C Construction**

Construct the inlet according to standard spec 611.3.

**D Measurement**

The department will measure Inlets (Diameter) by each structure, 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.0060.30	Inlets 5-FT Diameter	Each
SPV.0060.31	Inlets 6-FT Diameter	Each

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for furnishing all excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.

**72. Sanitary Manhole Covers, Item SPV.0060.32.**

**A Description**

This special provision describes furnishing and installing new sanitary sewer manhole covers on new sanitary sewer manholes as shown on the plans, and according to the applicable provisions of standard spec 611 and as hereinafter provided.

**B Materials**

Provide manhole covers of the type designated on the plan details. Set covers using a minimum of 6 inches of precast reinforced concrete adjusting rings and 3-1/2 inch wide by 3/8-inch thick preformed butyl rubber sealant complying with ASTM C990.

**C Construction**

Place butyl rubber sealant in 3-1/2 inch widths between the cone section and adjusting ring, between any additional adjusting rings required to bring the cover to finished grade, and between the top adjusting ring and cover. In placing the sealant material, take care to seal the entire circumference of the ring to preclude infiltration of water. Accomplish adjustment of frames to street cross slope with mortar in the outside 1-3/4 inch of the adjusting ring and equivalent layers of sealant material inside the mortar. Take care during subsequent construction activities to not disturb the water tight integrity of the manhole cover adjustment. Reset any disturbed covers according to these provisions.

**D Measurement**

The department will measure Sanitary Manhole Covers as each individual cover, 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.0060.32	Sanitary Manhole Covers	Each

Payment is full compensation for furnishing all materials and work including furnishing and installing new cover, reinforced concrete adjusting rings, and joint materials.

**73. Corporation Stop 2-Inch, Item SPV.0060.45; Service Stop 2-Inch, Item SPV.0060.46; Corporation Stop 1-Inch, Item SPV.0060.60; Service Stop 1-Inch, Item SPV.0060.61.**

**A Description**

This work consists of furnishing and installing a corporation stop and curb stop of the size indicated, excavating, setting new curb box and rod, connection of new service pipe, and connecting the existing service pipes including transition fittings according to the requirements of the plans, the standard specifications and the City of La Crosse standard specifications for the construction of water main.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

Standard transition fittings for 1-Inch Curb Stops to 3/4-Inch service pipe shall be furnished.

Approved manufactures of service brass items are Ford Meter Box, Mueller, A.Y. McDonald or an approved equal.

### **C Construction**

Corporation Stop 1-Inch, Item SPV.0060.60; Service Stop 1-Inch, Item SPV.0060.61; Corporation Stop 2-Inch, Item SPV.0060.45; Service Stop 2-Inch, Item SPV.0060.46 shall be furnished, installed, and tested according to city of La Crosse Standard Specifications. Each will be inspected before backfill.

### **D Measurement**

The department will measure Corporation Stop 1-Inch, Service Stop 1-Inch, Corporation Stop 2-Inch, and Service Stop 2-Inch per each individual unit furnished, installed and tested, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.45	Corporation Stop 2-Inch	EACH
SPV.0060.46	Service Stop 2-Inch	EACH
SPV.0060.60	Coporation Stop 1-Inch	EACH
SPV.0060.61	Service Stop 1-Inch	EACH

Payment is full compensation for furnishing all work and materials including mechanical joints, and adjustment of valve box elevations to match flush with sidewalk, pavement, or finished grades within the work area.

## **74. D.I. Fitting Plug 8-Inch, Item SPV.0060.47; D.I. Fitting - 45 Degree Bend 8-Inch, Item SPV.0060.71; 6-Inch, Item SPV.0060.72; D.I. Fitting - Reducer 8 to 6-Inch, Item SPV.0060.73; D. I. Fitting 8 x 6 Inch Tee For Fire Hydrant, Item SPV.0060.74.**

### **A Description**

This work consists of furnishing and installing compact ductile iron fittings of the size and class specified, furnishing and installing the fitting and joint restraint according to the requirements of the plans, the standard specifications and the City of La Crosse standard specifications for the construction of water main.

### **B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

Fittings to be furnished shall be new meeting the requirements of the standard specifications. Fittings to be installed complete with joint restrains.

Approved manufactures of fittings are American Darling, Kennedy, Mueller, M & H (Dresser), Waterous, Clow, U.S Pipe Meto Seal, or an approved equal.

Fittings shall include mechanical joint restraint and shall be included in the cost bid of fittings. Joint restraints shall be Meg A Lug wedge action type joint restraints manufactured by EBBA Iron Sales or an approved equal.

### **C Construction**

D. I. Fitting - 45 Degree Bend 8-Inch, SPV.0060.71; D. I Fitting – 45 Degree Bend 6-Inch, SPV.0060.72, D. I Fitting - Reducer 8 to 6-Inch, SPV.0060.73; D. I Fitting - 8 x 6 Inch, Tee For Fire Hydrant, SPV.0060.74; D. I. Fitting – Plug, 8- Inch, SPV.0060.47 installed and tested according to city of La Crosse standard specifications. Fittings must be inspected before backfill.

### **D Measurement**

The department will measure D. I. Fitting - 45 Degree Bend 8-Inch, D. I Fitting – 45 Degree Bend 6-Inch, D. I Fitting - Reducer 8 to 6-Inch, D. I Fitting - 8 x 6 Inch Tee For Fire Hydrant, D. I Fitting – Plug 8- Inch, will be measured per each fitting furnished, installed, tested, and acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.47	D.I. Fitting, Plug 8-Inch	EACH
SPV.0060.71	D.I. Fitting, 45 Degree Bend 8-Inch	EACH
SPV.0060.72	D.I. Fitting, 45 Degree Bend 6-Inch	EACH
SPV.0060.73	D.I. Fitting, Reducer 8 to 6-Inch	EACH
SPV.0060.74	D.I. Fitting, 8x6-Inch Tee For Fire Hydrant	EACH
SPV.0060.47	D.I. Fitting, Plug 8-Inch	EACH

Payment is full compensation for furnishing all work and materials including the fitting and joint restraint measured as provided above including blocking, and mechanical joint hardware.

## **75. R.S. Gate Valve With Road Box 8- Inch, Item SPV.0060.48; R.S. Hydrant Control Valve With Road Box 6 - Inch, Item SPV.0060.66.**

### **A Description**

This work consists of furnishing and installing Hydrant Control Valves. Valves to be resilient seat (R.S.) wedge gate valves with road box of the size and class specified, for fire hydrant control include all fittings according to the requirements of the plans, the standard specifications and the city of La Crosse Standard Specifications for the construction of water main.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

Valves to be furnished shall be new meeting the requirements of the Standard specifications. Valves to be installed complete with road box.

Approved manufactures of valves are American Darling, Kennedy, Mueller, M & H (Dresser), Waterous, Clow, U.S Pipe Meto Seal, or an approved equal.

**C Construction**

R.S. Hydrant Control Valve With Road Box 6 - Inch SPV.0060.66; R. S. Gate Valves With Road Box 8-Inch SPV.0060.48 to be R.S. Wedge Valves with Road Box shall be furnished, installed, and tested according to City of La Crosse Standard Specifications. Valves must be inspected before backfill.

**D Measurement**

The department will measure R.S. Hydrant Control Valve With Road Box 6 – Inch and R. S. Gate Valves With Road Box 8-Inch per each valve furnished, installed and tested, 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.0060.48	R.S. Gate Valves With Road Box 8-Inch	EACH
SPV.0060.66	R.S. Hydrant Control Valve With Road Box 6 – Inch	EACH

Payment is full compensation for furnishing all work and materials including blocking, mechanical joints, and adjustment of valve box elevations to match flush with sidewalk, pavement, or finished grades within the work area.

**76. Manholes 5-FT Diameter With Gate, Item SPV.0060.50.****A Description**

All work under this item shall be completed according to standard spec 611.

**B Materials**

All manhole materials under this item shall conform to standard spec 611.2.

Install cast iron flange section for the specified pipe and automatic drainage gate size, per the automatic drainage gate manufacturer's specifications, located as shown in the plans.

**C Construction**

Construction of manhole and installation of flange under this item shall conform to standard spec 611.3.

**D Measurement**

The department will measure Manholes 5-FT Diameter With Gate by each, acceptably installed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.50	Manholes 5-FT Diameter With Gate	Each

Payment for Manholes 5-FT Diameter W/ Gate is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, cast iron flange for automatic drainage gate mounting, and all other fittings; for furnishing all excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.

**77. Manholes 6-FT Diameter With Gate, Item SPV.0060.51.****A Description**

All work under this item shall be completed according to standard spec 611.

**B Materials**

All manhole materials under this item shall conform to standard spec 611.2.

**C Construction**

Construction of manhole under this item shall conform to standard spec 611.3. Include concrete masonry formed to meet automatic drainage gate manufacturer specifications to provide surface for mounting of gate. Prepare mounting surface at locations shown in the plan.

**D Measurement**

The department will measure Manholes 6-FT Diameter With Gate by each, acceptably installed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV. 0060.51	Manholes 6-FT Diameter With Gate	Each

Payment for Manholes 6-FT Diameter With Gate is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, concrete masonry and steel reinforcement for drainage gate mounting, and all other fittings; for furnishing all excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.



**78. Automatic Drainage Gates 24-Inch, Item SPV.0060.52; 36-Inch, Item SPV.0060.53.**

**A Description**

Work under this item consists of furnishing and installing an automatic drainage gate at the location shown on the plans. Perform the work according to pertinent parts of the standard specifications, the plans, and these special provisions.

**B Materials**

Gates are to be cast iron with machined seat. All moving parts are to operate on stainless steel hinge pins. The cover is hung with cast iron arms to be located at the outer edges near the center of gravity to ensure sensitive operation.

Provide neoprene seating for gate cover.

Automatic drainage gates mounted to flange are Neenah Foundry R-5050-FF, or equal. Automatic drainage gates mounted without a flange are Neenah Foundry R-5050-SF, or equal.

**C Construction**

Automatic drainage gates are to be securely mounted at locations shown in the plans. Gates must be mounted at a proper angle to ensure proper self-closing operation. For manhole installation of gates, mount 24-inch gates on cast iron flange cast into structure and 36-inch gates on concrete masonry wall inside structure. For concrete masonry endwall installation, securely mount the gate to the endwall ensuring complete closure to seal pipe end.

**D Measurement**

The department will measure Automatic Drainage Gates 24-Inch by each, acceptably installed. The department will measure Automatic Drainage Gates 36-Inch by each, acceptably installed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.52	Automatic Drainage Gates 24-Inch	Each
SPV.0060.53	Automatic Drainage Gates 36-Inch	Each

Payment for Automatic Drainage Gates 24-Inch and Automatic Drainage Gates 36-Inch is full compensation for furnishing the gate; furnishing and installing all mounting hardware; preparing mounting surface and mounting the gate.

**79. Remove and Salvage Storm Water Gate, Item SPV.0060.54.**

**A Description**

This special provision describes removing, salvaging and storing storm water gate components that are part of the existing storm sewer system being removed with the project.

**B (Vacant)**

**C Construction**

Perform a field review of existing storm water gate equipment with Steve Asp/City of La Crosse Storm Water Utility, for condition of equipment prior to removal. The city will identify all items to be removed and salvaged or disposed. Coordinate the pickup of any salvaged items with Steve Asp. Contact Steve Asp by phone at (608) 789-7324 or by email at [asps@cityoflacrosse.org](mailto:asps@cityoflacrosse.org).

Properly dispose of any equipment that the City of La Crosse Storm Water Utility does not want salvaged.

**D Measurement**

The department will measure Remove and Salvage Storm Water Gate by 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.0060.54	Remove and Salvage Storm Water Gate	Each

Payment is full compensation for removing the existing gate including frame and mounting hardware; for cleaning, handling, and storing materials; for disposing of surplus materials; and for contacting the City of La Crosse Storm Water Utility for pickup.

**80. Manhole Covers Type J-Modified, Item SPV.0060.55.**

**A Description**

This work shall be according to the requirements of standard spec 611, except as hereinafter amended.

**B Materials**

*Amend standard spec 611.2 Materials to include:*

Use frames and lids conforming to the size and weight for heavy duty manhole covers, Neenah Catalog Number R-1670-A or equal. Use solid lids cast with text reading "STORM" on the surface.

**C (Vacant)**

**D Measurement**

The department will measure Manhole Covers Type J-Modified 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.0060.55	Manhole Covers Type J-Modified	Each

Payment for Manhole Covers Type J-Modified bid item is full compensation for providing new covers, including frames, lids, and all other required materials and for installing and adjusting each cover.

**81. Adjust Service Stop Elevation, Item SPV.0060.62.****A Description**

This work consists of adjusting service stops to elevations to match flush with sidewalk, pavement, or finished grades.

**B (Vacant)****C Construction**

Adjust Service Stop Elevation, Item SPV.0060.62 will include excavating the service stop and setting the operator cap to match the final grade of the surface.

**D Measurement**

The department will measure Adjust Service Stop Elevation per each adjusted 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.0060.62	Adjust Service Stop Elevation	Each

Payment is full compensation for furnishing all work including excavation, adjustment of service stop to elevations to match flush with sidewalk, pavement, or finished grades within the work area.

**82. Relocate Fire Hydrant, Item SPV.0060.63.****A Description**

This work consists of relocating fire hydrants.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

Mechanical joint restraint shall be installed at the plug. Joint restraints shall be Meg A Lug wedge action type joint restraints manufactured by EBBA Iron Sales or an approved equal.

**C Construction**

Relocate Fire Hydrants, Item SPV.0060.63 shall be excavating, disconnecting the hydrants, cutting and removing hydrant lead pipe, and furnishing and installing a plug in the lead near the hydrant valve, placing and compacting the backfill.

**D Measurement**

The department will measure Relocate Fire Hydrants per each hydrant relocated, 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.0060.63	Relocate Fire Hydrant	Each

Payment is full compensation for furnishing all work including back filling, and mechanical; and for materials.

**83. Fire Hydrant - New, Item SPV.0060.64.****A Description**

This work consists of furnishing and installing fire hydrants including excavating, setting new hydrants, stone drain material, joint restraint, connection of hydrant to hydrant lead including fittings, backfill and compaction, all according to the requirements of the plans, the standard specifications and the City of La Crosse standard specifications for the construction of water main.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

Approved hydrant manufacturer is Waterous Pacer or an approved equal.

Mechanical joint restraint shall be installed at the hydrant and included in the cost bid for hydrants. Joint restraints shall be Meg A Lug wedge action type joint restraints manufactured by EBBA Iron Sales or an approved equal.

**C Construction**

Fire Hydrants - New, Item SPV.0060.64 shall be furnished, installed, and tested accordance with city of La Crosse standard specifications. Hydrants must be inspected before backfill.

**D Measurement**

The department will measure Fire Hydrants - New, by each hydrant furnished, installed and tested, 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.0060.64	Fire Hydrant – New	Each

Payment is full compensation for furnishing all work and materials including back filling, mechanical joints, and adjustment of hydrant elevations to meet minimum height above sidewalk, pavement, or finished grades within the work area.

**84. Adjust Fire Hydrant Elevation, Item SPV.0060.65.****A Description**

This work consists of adjusting fire hydrants to elevations to match flush with sidewalk, pavement, or finished grades.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

**C Construction**

Adjust Fire Hydrant Elevation, Item SPV.0060.65 shall be excavating, disconnecting the hydrant barrel sections and adding extensions, and placing and compacting the backfill.

**D Measurement**

The department will measure Adjust Fire Hydrant Elevation per each hydrant, adjusted and 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.0060.65	Adjust Fire Hydrant Elevation	Each

Payment is full compensation for furnishing all work and materials including back filling, and mechanical.

**85. Adjust Water Main Valve Elevation, Item SPV.0060.67.****A Description**

This work consists of adjusting water main valves to match proposed pavement grades by furnishing and installing a new road box for each valve. The road box shall meet the standard specifications and the City of La Crosse Standard Specifications for the construction of water main.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

Approved manufactures of valves are American Darling, Kennedy, Mueller, M & H (Dresser), Waterous, Clow, U.S Pipe Meto Seal, or an approved equal.

**C Construction**

Adjust Water Main Valve Elevation to include a new road box furnished, installed according to city of La Crosse Standard Specifications. Road boxes must be inspected before backfill.

**D Measurement**

The department will measure Adjust Water Main Valve Elevation per each road box furnished and installed, 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.0060.67	Adjust Water Main Valve Elevation	Each

Payment is full compensation for furnishing all work and materials including adjustment of valve box elevations to match flush with sidewalk, pavement, or finished grades within the work area.

**86. Nitrile Gaskets 8-Inch, Item SPV.0060.68; Nitrile Gaskets 6-Inch, Item SPV.0060.69.**

**A Description**

This work consists of furnishing and installing nitrile gaskets in water main and fire hydrant leads when the water main and/or hydrant lead is installed in soil contaminated with hydrocarbon compounds, all according to the requirements of the plans, the standard specifications and the City of La Crosse Standard Specifications for the construction of water main.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications.

Nitrile gaskets to be furnished shall be new meeting the requirements of the Standard specifications.

Approved manufactures of gaskets are American Pipe, Tyton - U.S Pipe, or an approved equal.

**C Construction**

Nitrile Gaskets 8 – Inch, SPV.0060.68; Nitrile Gaskets 6 – Inch, SPV.0060.69 shall be furnished and installed when directed by the engineer, and according to city of La Crosse Standard Specifications.

**D Measurement**

The department will measure Nitrile Gaskets 8 – Inch and Nitrile Gaskets 6 – Inch, per each furnished, installed, and acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.68	Nitrile Gaskets 8-Inch	Each
SPV.0060.69	Nitrile Gaskets 6-Inch	Each

Payment is full compensation for furnishing all work and materials including blocking, mechanical joints, and adjustment of valve box elevations to match flush with sidewalk, pavement, or finished grades within the work area.

**87. Tapping Valve And Sleeve 6 - Inch, Item SPV.0060.70.****A Description**

This work consists of furnish and installing a tapping valve and sleeve on an existing water main.

**B Materials**

The tapping sleeve shall meet AWWA C223, latest edition. The sleeve may be cast iron or epoxy coated carbon steel. The tapping valve shall have an epoxy coated cast iron body with resilient seat wedge sized to allow a cutter to cut and remove a coupon from the existing ductile iron water main while under pressure.

**C Construction**

Tapping Valve and Sleeve 6 - Inch, Item SPV.0060.70 the contractor shall excavate and expose the existing water main at the location shown on the plan and determine the size of the main to be tapped. The surface of the existing water main to be tapped shall be cleaned and disinfected before attaching the sleeve and cutting into the water main.

**D Measurement**

The department will measure Tapping Valve and Sleeve, 6 - Inch per each installed unit, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.70	Tapping Valve and Sleeve 6-Inch	Each

Payment is full compensation for furnishing all work and materials including excavation, cleaning and disinfecting the water main surface, and cutting the existing water main.

**88. Connect Existing Water Service To New Water Main, Item SPV.0060.75.**

**A Description**

This item of work shall consist of connecting existing water services to the new water main of the size and method specified, furnishing specified fittings at locations shown on plans, and as hereinafter provided.

**B Materials**

Work and materials under this item shall be according to the standard specifications for Water Main Construction, City of La Crosse, Wisconsin, (City Specifications revised January 1993).

Fittings: All service brass shall comply with AWWA Specifications latest designation specifications.

**C Construction**

Connecting existing water services to new water main shall be performed at the locations shown on the plans. This item of work shall include the excavation and exposing of the existing water service, cutting the existing water service at the exact location and elevation where the existing service pipe crosses the new water main, making all connections to the service brass items, coordination with local water utility personnel for the temporary shutdown of the existing water service, the notification of all the affected businesses and residences of the time and approximate duration of the shutdown, and any fittings required for the connection of new water service to the new water main. All connections performed, will be inspected by the engineer prior to backfill.

Cutting pipe shall be done in a neat and workmanlike manner without causing damage to the pipe. The cut edges shall be beveled so as not to cause damage to any fittings and service brass when inserted into a fitting.

**D Measurement**

The department will measure Connect Existing Water Service to New Water Main by each connection, completed and accepted.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.75	Connect Existing Water Service To New Water Main	Each

Payment is full compensation for furnishing all work including preparation of the terminal end of existing water service pipe, transition fittings, and materials associated with completing the connection.



## **89. Sanitary Sewer Manhole New, 48-Inch ID, Item SPV.0060.76.**

### **A Description**

This item of work will consist of furnishing and installing all equipment, labor and materials to install new manholes of the diameter specified on the existing and new sanitary sewer as directed by the engineer, and as hereinafter provided.

### **B Materials**

Work and materials under this item shall be according to the standard specifications for The Construction of Sewers, City of La Crosse, Wisconsin, (City Specifications revised January 1993).

Manholes: All manholes shall be pre-cast, reinforced concrete structures manufactured in a controlled factory environment. Manholes shall comply with the ASTM standards for pre-cast reinforced concrete manholes, latest designation specifications.

Manhole Covers: All manhole covers will be furnished to the contractor at no cost.

### **C Construction**

Sanitary Sewer Manhole, 48-Inch, SPV.0060.76 shall be installed on new and existing sewers. Manholes on existing sanitary sewers shall be supported on a pre-cast concrete base that is inserted under the existing sanitary sewer. The size of the base shall fully support the manhole. No weight shall rest on the existing sanitary sewer. The space between the existing sewer and the new base shall be sealed with a bentonite water seal and non-shrink grout for a water tight seal.

### **D Measurement**

The department will measure Sanitary Sewer Manhole New, 48-Inch ID by each manhole installed, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.76	Sanitary Sewer Manhole New, 48-Inch ID	Each

Payment is full compensation for furnishing all work including excavating, placing the concrete base, setting the manhole structure, connecting the side street sewers, backfill and compaction, materials, and for installing and adjusting the manhole cover.

## **90. Sanitary Sewer Manhole Remove, 48-Inch ID, Item SPV.0060.77.**

### **A Description**

This item of work will consist of removing existing brick/block sanitary manholes and furnish all equipment, labor and materials necessary to install a new precast concrete sanitary manhole, all depths, of the diameter specified on an existing sanitary sewer as directed by the engineer, and as hereinafter provided.

**B Materials**

Work and materials under this item shall be according to the standard specifications for The Construction of Sewers, City of La Crosse, Wisconsin, (City Specifications revised January 1993).

Manholes: All manholes shall be pre-cast, reinforced concrete structures manufactured in a controlled factory environment. Manholes shall comply with the ASTM standards for pre-cast reinforced concrete manholes, latest designation specifications.

Manhole Covers: All manhole covers will be furnished to the contractor at no cost.

**C Construction**

Sanitary Sewer Manhole Remove, 48-Inch ID, SPV.0060.77, shall be installed on existing sewers. Manholes on existing sanitary sewers shall be supported on a pre-cast concrete base that is inserted under the existing sanitary sewer. The size of the base shall fully support the manhole. No weight shall rest on the existing sanitary sewer. The space between the existing sewer and the new base shall be sealed with a bentonite water seal and non-shrink grout for a water tight seal.

**D Measurement**

The department will measure Sanitary Sewer Manhole Remove, 48-Inch ID by each manhole, removed/replaced, and acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.77	Sanitary Sewer Manhole Remove, 48-Inch ID	Each

Payment is full compensation for furnishing all work and materials including excavating, removing and disposing of brick/block manhole materials, placing the concrete base, setting the manhole structure, connecting any side street sewers, backfill, installing manhole cover, and compaction.

**91. Adjust Sanitary Sewer Manhole Elevation, 48-Inch ID, Item SPV.0060.78.****A Description**

This work consists of adjusting existing sanitary manholes to elevations to match flush with sidewalk, pavement, or finished grades.

**B Materials**

Work and materials under this item shall be according to the standard specifications for The Construction of Sewers, City of La Crosse, Wisconsin, (City Specifications revised January 1993).

Manholes: All manhole products used shall be pre-cast, reinforced concrete that were manufactured in a controlled factory environment. Items will comply with the ASTM standards for pre-cast reinforced concrete manholes, latest designation specifications.

### **C Construction**

Adjust Sanitary Sewer Manhole Elevation SPV.0060.78 shall be performed on existing sanitary sewer manhole as required to match flush with sidewalk, pavement, or finished grades. No more than 6 inches of adjusting rings shall be permitted. Manholes shall be excavated to the top of the concrete structure. Adjustments shall be made using pre-cast concrete adjusting rings installed and fitted so the rim of the casting matches flush with the sidewalk, pavement or finish grade.

### **D Measurement**

The department will measure Adjust Sanitary Sewer Manhole Elevation 48-Inch ID by each manhole adjusted, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.78	Adjust Sanitary Sewer Manhole Elevation, 48-Inch ID	Each

Payment is full compensation for furnishing all work including excavating, adjusting rings, backfill and compaction, and materials associated with completing the installation.

## **92. Sanitary Sewer Wye PVC – 8 x 6-Inch, Item SPV.0060.79.**

### **A Description**

This item of work shall consist of furnishing and install all items necessary to install wye for a sanitary lateral connection at location stated, and as hereinafter provided.

### **B Materials**

Work and materials under this item shall be according to the standard specifications for Sewer Construction, City of La Crosse, Wisconsin, (City Specifications revised January 1993).

PVC Sewer Wye\_Fittings installed in-line with sewer pipe shall be compatible with SDR 35 PVC sewer pipe and will meet ASTM D3034 standards for pipe fittings, latest designation. The PVC material shall be made from PVC resin compounded to meet the physical and mechanical properties that meet or exceed cell class 12454 or 12364 as defined in ASTM D1784. Approved manufacturers of PVC sanitary sewer fittings are JM Eagle, North American, or an approved equal.

### **C Construction**

Sanitary Sewer Wye PVC – 8 x 6-Inch, SPV.0060.79. Install PVC Wyes in new sanitary sewer according to City of La Crosse Standard Specifications.

Cutting sanitary sewer pipe shall be done in a neat and workmanlike manner without causing damage to the pipe. The cut edges shall be beveled so as not to cause damage to the gasket when inserted into a fitting.

#### **D Measurement**

The department will measure Sanitary Sewer Wye PVC – 8 x 6-Inch by the unit each, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.79	Sanitary Sewer Wye PVC – 8 x 6-Inch	Each

Payment is full compensation for furnishing all work including preparation of the sanitary sewer pipe, inserting the wye, and furnishing materials associated with completing the line stop.

- 93. Black Paint Pedestal Bases, Item SPV.0060.80; Black Paint Transformer Bases Breakaway 11 ½-Inch Bolt Circle, Item SPV.0060.81; Black Paint Traffic Signal Standard Aluminum 13-FT, Item SPV.0060.82; Black Paint Traffic Signal Standard Aluminum 15-FT, Item SPV.0060.83; Black Paint Traffic Signal Standard Aluminum 10-FT, Item SPV.0060.84; Black Paint Poles Type 4, Item SPV.0060.85; Black Paint Poles Type 6, Modified Aluminum, Item SPV.0060.86; Black Paint Luminaire Arms Truss Type 4.5-Inch Clamp 12-FT, Item SPV.0060.87; Black Paint Luminaire Arms Truss Type 4-Inch Clamp 12-FT, Item SPV.0060.88; Black Paint Luminaires Utility LED C, Item SPV.0060.89; Black Paint Lighting Control Cabinet, SPV.0060.90.**

#### **A Description**

This provision requires the components of the Lighting and Traffic Signal Units to be painted black. These components shall include the pole caps, nut covers, brackets and all other components that would be visible. The work under this item shall conform to standard spec 657 and 659 and as hereinafter provided.

#### **B Materials**

- (1) Poles, standards and Arms: Poles, Standards and Arms shall be factory black powder coat finished so as to produce a uniform appearance. Nut covers and pole cap shall be finished to match pole.
- (2) Transformer and Pedestal Bases: Shall be provided with a black powder coat finish. The black finish shall be applied to match the color/finish of the pole.

- (3) Luminaires: The luminaire housing shall have a black painted finish to match the color/finish of the pole/arm.

### **C Construction**

Components when assembled shall appear as one uniformly colored unit. Touch up paint shall be included and applied by the contractor to all scratches and construction blemishes as to match the original black factory color and finish.

### **D Measurement**

The department will measure Black Paint (lighting unit type) as a unit each, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.80	Black Paint Pedestal Bases	Each
SPV.0060.81	Black Paint Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	
SPV.0060.82	Black Paint Traffic Signal Standard Aluminum 13-FT	Each
SPV.0060.83	Black Paint Traffic Signal Standard Aluminum 15-FT	Each
SPV.0060.84	Black Paint Traffic Signal Standard Aluminum 10-FT	Each
SPV.0060.85	Black Paint Poles Type 4	Each
SPV.0060.86	Black Paint Poles Type 6, Modified Aluminum	Each
SPV.0060.87	Black Paint Luminaire Arms Truss Type 4.5-Inch Clamp 12-FT	Each
SPV.0060.88	Black Paint Luminaire Arms Truss Type 4-Inch Clamp 12-FT	Each
SPV.0060.89	Black Paint Luminaire Utility LED C	Each
SPV.0060.90	Black Paint Lighting Control Cabinet	Each

Payment is full compensation for furnishing and installing all materials.

## **94. Removing Traffic Signal Units, Item SPV.0060.91.**

### **A Description**

This special provision describes removing traffic signals according to the pertinent provisions of standard spec 204 and as hereinafter provided.

The poles and pertinent above ground appurtenances shall be carefully removed to avoid damage and shall be delivered to the WisDOT La Crosse Sign Shop, 3550 Mormon Coulee Road. Prior to delivery, call (608) 785-9080 to schedule drop off of materials.

### **B (Vacant)**

### **C (Vacant)**

**D Measurement**

The department will measure Removing Traffic Signals Units 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.0060.91	Removing Traffic Signal Units	Each

Payment is full compensation for furnishing and installing all materials.

**95. Pull Box Non-Conductive 24x42-Inch, Item SPV.0060.92.****A Description**

Perform work according to the applicable provisions of standard spec 653 and as detailed in the plans.

**B Materials**

Provide pull boxes, frames, and lids made of non-conductive material suitable for Tier 15 loading, as specified in ANSI/SCTE 77.

Provide pull boxes, frames, and lids made of non-conductive materials.

Provide each cover with the logo "WISDOT COMMUNICATIONS" for communications pull boxes and "ELECTRIC" for traffic signal and lighting pull boxes, imprinted on it from the manufacturer.

Provide one 24-inch length of #6 reinforcing steel.

**C Construction**

Install pull boxes at the locations shown on the plans. Extend pull boxes, as necessary, using the same material as the pull box and as shown in the construction details. Saw extensions parallel to the extension ring. Excavate, place coarse aggregate drain material, and backfill.

Drive reinforcing steel, vertically, on the north side of the pull box.

**D Measurement**

The department will measure Pull Box Non-Conductive (Size) as each individual pull box non-conductive, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.92	Pull Box Non-Conductive 24x42-Inch	Each

Payment is full compensation for providing and installing all materials including coarse aggregate; for excavating, backfilling, and disposing of surplus materials; for extending the pull box; and for conduit extensions less than 10 feet long including fittings. The department will pay separately for engineer-directed pull box drain duct under the Conduit Rigid Nonmetallic bid items as specified in standard spec 652.5.

**96. 8-Count Fiber Optic Connector 250-FT, Item SPV.0060.93; 1000-FT, Item SPV.0060.94.**

**A Description**

This special provision describes furnishing and installing 8-count factory terminated combination fiber optic patch panel and cable systems of the lengths described.

**B Materials**

Furnish combination fiber optic termination patch panel and cable systems meeting the following requirements:

- 8 single mode fiber optic strands.

- Factory terminated ST connectors on panel end.

- Bare, unterminated fiber strands on non-panel end.

- Loose tube cable.

- Cable length as indicated by bid item.

- Patch panel must be designed and tested for 1,000 rematings with less than 0.2 dB change.

- Patch panel housing material must be ABS plastic.

**C Construction**

Follow all manufacturer's recommended installation procedures.

Install cable from control cabinet end out to fiber optic splice location to prevent damage to the termination panel.

Mount the termination panel in the control cabinet in a space available and approved by the engineer.

Splice fiber optic strands to main fiber optic cable as shown on the plans or as directed by the engineer. Splices are paid for separately.

**D Measurement**

The department will measure 8-Count Fiber Optic Connector (length) by each individual unit, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.93	8-Count Fiber Optic Connector 250-FT	Each
SPV.0060.94	8-Count Fiber Optic Connector 1000-FT	Each

Payment is full compensation for furnishing and installing the fiber optic cable and termination panel assembly.

## **97. Remove Existing Lighting Control, Item SPV.0060.95.**

### **A Description**

This special provision describes removing existing lighting control cabinets, disconnects, meter pedestal and restoring the site to match the surroundings.

### **B (Vacant)**

### **C Construction**

Contact the City of La Crosse at least seven days prior to removing existing control.

Arrange with the utility for a disconnection of the existing electrical service lateral and removal of the meter housing.

Properly dispose of all related equipment.

### **D Measurement**

The department will measure Remove Existing Lighting Control by the 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.0060.95	Remove Existing Lighting Control	Each

Payment is full compensation for removals, backfill, and disposal as required above.

## **98. Decorative Street Light Base, Item SPV.0060.96.**

### **A Description**

This work will be according to the requirements of standard spec 654, the plans, standard detail drawings, and as hereinafter provided.

### **B Materials**

According to the plans and standard spec 654.2.

### **C Construction**

According to the plans and standard spec 654.3.



**D Measurement**

The department will measure Decorative Street Light Base 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.0060.96	Decorative Street Light Base	Each

Payment is full compensation according to standard spec 654.5.

**99. Decorative Street Light Assembly, Item SPV.0060.97.****A Description**

This work will be according to the requirements of standard spec 657, the plans, standard detail drawings, and as hereinafter provided.

**B Materials**

Furnish Decorative Street Light Assembly as follows:

Sun Valley luminaire arm, luminaire, and 250 watt HPS lamp

- LCL – III – 250 HPS 120 – XPY – RAL-9005-T

Sun Valley pole

- 16 flutes tapered steel shaft, shaft has 7.00” butt, tapering to 3.9” top, minimum yield strength 55,000 P.S.I. (no hand hole provided)
- Accessories: RBA – DUP GFI

Sun Valley clamshell cover

- 3000SB Split Base

Transformer base according to standard spec 657.2

All exposed components will be painted black.

**C Construction**

According to the plans and standard spec 657 and manufacturer requirements.

**D Measurement**

The department will measure Decorative Street Light Assembly 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
SPV.0060.97	Decorative Street Light Assembly	Each

Payment is full compensation for furnishing and installing the Decorative Street Light Assembly.

## **100. Round Communications Vault 36x42-Inch, Item SPV.0060.98.**

### **A Description**

This special provision describes furnishing and installing Round Communications Vault 36x42-inch shown on the plans.

### **B Materials**

Furnish boxes, frames, and lids made of non-conductive material. Boxes, frames, and lids will be suitable for Tier 15 loading as specified in ANSI/SCTE 77.

### **C Construction**

Provide boxes, frames, and lids made of non-conductive materials. Excavate, place coarse aggregate drain material, and backfill as the plan details show. Dispose of surplus or unsuitable materials as specified under standard spec 205.3.12. Use covers labeled with "WISDOT COMMUNICATIONS".

Provide one 24" length of #6 reinforcing steel to be driven vertically on the north side of the pull box.

### **D Measurement**

The department will measure Round Communications Vault 36x42-inch as each individual unit, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.98	Round Communications Vault 36x42-Inch	Each

Payment for Round Communications Vault 36x42-inch is full compensation for providing and installing boxes, frames, lids, aggregate, fasteners, reinforcing steel; and for furnishing all excavating, backfilling and disposing of surplus material.

## **101. Remove Existing Lighting Pole, Item SPV.0060.99.**

### **A Description**

This special provision describes removing and salvaging street lighting units from the project as shown in the plans and as hereinafter provided.

### **B (Vacant)**

### **C Construction**

Disconnect and salvage the complete lighting unit from the locations shown in the plans and/or as designated by the engineer.

Carefully stockpile the complete lighting unit at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. Salvaged items shall be stored and protected from damage until ready for pick up by the City of La Crosse. Any damage to the salvaged materials resulting from the removal and salvaging operations will be repaired or replaced in-kind at the contractor's expense. Contact the City of La Crosse Public Works Engineering Department, (608) 789-7505, a minimum of two business days prior to pick up.

This item includes coordination and incidentals necessary to remove or have removed by the City of La Crosse: street name signs and all accessories affixed to the lighting units.

#### **D Measurement**

The department will measure Remove Existing Lighting Pole as each individual lighting unit, acceptably salvaged and delivered.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.99	Remove Existing Lighting Pole	Each

Payment is full compensation for salvaging and storage of all existing lighting unit components.

### **102. Native Prairie, Item SPV.0085.01; Pollinator Mix, Item SPV.0085.02; No-Mow Fescue, Item SPV.0085.03.**

#### **A Description**

This special provision describes preparing seed beds and furnishing and sowing seeds as shown on the plans, according to standard spec 630, and hereinafter provided.

#### **B Materials**

Provide seed specifications from the vendor to the engineer at least 10 days prior to planting for review and approval. Seed shall be free of non-seed debris and invasive weed species.

#### **C Construction**

Prepare seed beds and sow the required seed according to applicable portions of standard spec 630:

- Sow the Native Prairie seed mix at a rate of 0.5 pounds per 1,000 square feet.
- Sow the Pollinator Mix at a rate of 0.25 pounds per 1,000 square feet.
- Sow the No-Mow Fescue seed mix at a rate of 5 pounds per 1,000 square feet.

#### **D Measurement**

The department will measure the Native Prairie, Pollinator Mix, and No-Mow Fescue (type) per standard spec 630.4 by the pound, 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.0085.01	Native Prairie	LB
SPV.0085.02	Pollinator Mix	LB
SPV.0085.03	No-Mow Fescue	LB

Payment for the Native Prairie, Pollinator Mix, and No-Mow Fescue bid items is full compensation for providing, handling, and storing all seed; for providing the required culture and inoculating seed as specified; and for preparing the seed bed, sowing, covering and firming the seed.

### **103. Concrete Curb and Gutter Integral 54-Inch Type A, Item SPV.0090.02; Integral 66-Inch Type A, Item SPV.0090.03.**

All work under this item shall be completed according to standard spec 601.

### **104. Aluminum Edging, Item SPV.0090.10.**

#### **A Description**

The work of this item includes furnishing and installing Aluminum Edging, complete in place at the locations as designated on the plans, or as directed by the engineer. It will include furnishing all necessary materials and such necessary or incidental there-to, to complete the item according to the plans, specifications and contract.

15-year Manufacturer's Warranty.

#### **B Materials**

##### **B.1 Edging**

Aluminum Edging shall be 1/8" thick by 4" depth and be mechanically fastened with stakes, in the field. Manufactured of 6063 Alloy containing Silicon and Magnesium as the major alloying elements, contributing to good strength, corrosion resistance, weldability, and machinability. According to the Aluminum Extruders Council (AEC) publication Extrusion Spotlight Alloys, aluminum alloyed in the 6XXX series contain the following desirable properties:

- Very lightweight, one-third that of steel and concrete.

- High strength, comparable to steel and steel/concrete composites.

- Strength and ductility as high or higher at subzero temperatures than at room temperature.

- Exceptional corrosion resistance.

- Ease of fabrication by many techniques, including extrusion, to unique advantageous structural configurations.

## **B.2 Finish**

Electrostatically applied and baked paint.  
Color: Black.

## **B.3 Stakes**

Heavy 12" long, aluminum stakes, manufactured of 6063 Alloy containing Silicon and Magnesium as the major alloying elements, contributing to good strength, corrosion resistance, weldability, and machinability.

## **C Construction**

Install Aluminum Edging per manufacturer's specifications and as detailed on the plans or as directed by the engineer.

## **D Measurement**

The department will measure Aluminum Edging in length by the linear foot along the top rail, 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.0090.10	Aluminum Edging	LF

Payment is full compensation for furnishing and placing all materials including delivery, hauling, placing, and finishing.

# **105. Steel Railing, Item SPV.0090.11.**

## **A Description**

The work of this item includes furnishing and installing Steel Railing including continuous concrete foundation, complete in place at the locations as designated on the plans, or as directed by the engineer. The work shall be per the pertinent provisions of standard spec 513 and 502 and as hereinafter described. It shall include furnishing all necessary materials and such necessary or incidental there-to, to complete the item according to the plans, specifications and contract.

## **B Materials**

### **B.1 Concrete Foundation**

Per standard spec 502 and as shown on the plans.

### **B.1 Railing**

The Steel Railing shall be of the design and dimensions as shown in the drawings, and be mechanically fastened with self-locking hardware, in the field. The top rail may be either channel or bar stock.

## **B.2 Finish**

All parts shall be coated with a tough, opaque, UV resistant exterior grade polyester powder coating applied to a minimum thickness of 4 mils. Liquid, epoxy or lead-containing powder coatings are not acceptable.

Substrate preparation shall consist first of mechanical cleaning to remove heavy mill scale, rust, varnish, grease, etc. with surface uniformly abraded to promote quality of finish coating. After two-step cleaning process, the metal substrate shall receive a corrosion-inhibiting iron phosphate pre-coating according to TT-C-490C, Type II, prior to the application of powder color coat. The color coating shall be applied by the electrostatic method.

Color: Black.

## **C Construction**

Provide engineer with color samples and fence shop drawings including all connections for approval prior to construction. Set posts in a vertical position at the location and alignment as shown on plan and per the manufacturer's recommendations. Pickets shall be vertical and the rails shall follow the finish grade.

Install concrete foundation per standard spec of 502 and as shown on plans.

Install Steel Railing per manufacturer's specifications and as detailed on the plans or as directed by the engineer.

## **D Measurement**

The department will measure Steel Railing in length by the linear foot along the top rail, 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.0090.11	Steel Railing	LF

Payment is full compensation for furnishing and placing all materials including delivery, hauling, placing, finishing, concrete foundation.

## **106. Level Spreader Wall, Item SPV.0090.50.**

### **A Description**

Work under this item consists of furnishing and constructing a cast-in-place concrete retaining wall at the location shown on the plans. Perform the work according to pertinent parts of the standard specifications, the plans, and these special provisions.

**B Materials****B.1 Concrete**

Use materials that conform to concrete masonry as specified in standard spec 501.

**B.2 Steel Reinforcement**

Use materials that conform to standard spec 505.

**B.3 Structure Backfill**

Use materials that conform to standard spec 506.

**C Construction****C.1 Concrete**

Conform to construction requirements in standard spec 501.

**C.2 Steel Reinforcement**

Conform to construction requirements in standard spec 505.

**C.3 Structure Backfill**

Conform to construction requirements in standard spec 506.

**D Measurement**

The department will measure Level Spreader Wall by the linear foot, acceptably installed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV. 0090.50	Level Spreader Wall	LF

Payment for Level Spreader Wall is full compensation for furnishing, placing, finishing, curing and protecting concrete masonry; for furnishing, fabricating and placing the bar steel reinforcement; and for furnishing, placing, and compacting structure backfill.

**107. Copper Water Service 1-Inch, Item SPV.0090.66; 2-Inch, Item SPV.0090.74.****A Description**

This work consists of excavating required trenches, removing any existing water lateral needed, furnishing and laying new type K water lateral service pipe of the size and class specified, connecting the new water service to existing water service, furnishing and installing all fittings, flushing the lateral, pressure testing and continuity testing, back filling trenches and restoring the site of work, according to the requirements of the plans, the standard specifications and the city of La Crosse standard specifications for the construction of water main.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications. Copper water service pipe shall be Type “K” seamless soft copper.

**C Construction**

Copper Water Service 1-Inch, Item SPV.0090.66; Copper Water Service 2-Inchr service according to City of La Crosse Standard Specifications.

**D Measurement**

The department will measure Copper Water Service 1-Inch and Copper Water Service 2-Inch by the linear foot in place, completed and accepted according to the contract, measured along the centerline of the lateral, center to center of junctions and fittings, including the length through all bends and fittings.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.66	Copper Water Service 1-Inch	FT
SPV.0090.74	Copper Water Service 2-Inch	FT

Payment is full compensation for furnishing all work including all fittings, and couplings, for furnishing all excavation, laying lateral, removing old lateral, and making all connections; for testing and disinfecting; and for backfilling, cleaning out and restoring site of work.

**108. Extend Water Service, Item SPV.0090.67.****A Description**

This work consists of extending all sizes of water services as required to locate the service stop as required.

**B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications. Copper water service pipe shall be Type “K” seamless soft copper.

**C Construction**

Extend Water Service, Item SPV.0090.67 according to City of La Crosse standard specifications.

**D Measurement**

The department will measure Extend Water Service by the linear foot, complete and accepted according to the contract, measured along the centerline of the service pipe, center to center of junctions and fittings. The length to be paid for will include the construction into or through all bends and fittings.



## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.67	Extend Water Service	FT

Payment is full compensation for furnishing all work and materials including all fittings and couplings, for furnishing all excavation, laying lateral, removing old lateral, and making all connections; for testing and disinfecting; for back filling.

## **109. D. I. Water Main With Poly Wrap 6-Inch, Item SPV.0090.68; With Poly Wrap 8-Inch, Item SPV.0090.69.**

### **A Description**

This work consists of excavating required trenches, removing existing water main, furnishing and laying ductile iron water main of the size and class specified, polyethylene wrap, disinfecting chemical, flushing the main, pressure testing and continuity testing, back filling trenches and restoring the site of work, according to the requirements of the plans, the standard specifications and the City of La Crosse Standard Specifications for the construction of water main.

### **B Materials**

All water main work and materials shall conform to the AWWA Specifications latest designation specifications.

These standards for work and materials are also supplemented according to with the standard specifications for Water Main Construction, City of La Crosse, Wisconsin. The city specifications are available from the La Crosse City Engineer's Office, 400 La Crosse Street, La Crosse, WI 54601, (608) 789-7505.

1. **Pipe.** Pipe shall be cement lined ductile iron pressure class 350 (350 psi) meeting ASTM C-104 latest designation, with minimum wall thickness of 0.25". Pipe gaskets shall meet ASTM C-111. Approved manufactures of ductile iron water main are American Cast Iron Pipe, U.S. Pipe or an approved equal.

2. **Poly-Wrap.** Poly-Wrap (polyethylene encasement) shall be 8 mil thickness and meet ASTM C-105, latest designation and shall be installed to all permanently installed water main.

3. **Pipe Joints.** Pipe joints shall be mechanical joint for all fittings and where straight pipe connects to fittings. Pipe joints may be push-on type (slip joint) on straight lengths of pipe.

New gaskets shall be provided at all joints within the replaced water main section. All gaskets shall conform to AWWA specifications and shall have the same pressure rating as the pipe or fitting of which they are a part.

## **C Construction**

D. I. Water Main 6 Inch, Item SPV.0090.68; D. I. Water Main 8-Inch, Item SPV.0090.69 shall be a constructed water main according to City of La Crosse Standard Specifications. Utilizing trench boxes, temporary shoring, and other means as necessary to protect road and shoulder. Comply with all applicable local, state and federal regulations.

Open ends of pipe shall be closed during non-working periods by a watertight plug or other means approved by the engineer. If water is in the trench, the seal shall remain in place until the trench is pumped completely dry.

Cutting pipe shall be done in a neat and workmanlike manner without causing damage to the pipe. The cut edges shall be beveled so as not to cause damage to the gasket when inserted into a fitting.

**Shutting Off Water.** Whenever any work is to be done in connection with the present system of mains, the contractor shall give notice to the engineer and City of La Crosse water utility a minimum of one day in advance of the time he expects to begin work, of the time that will be required, and of the place where he expects to do said work. The water utility will close such valves as would be required to shut off the water from the place designated and the contractor must prosecute the work with such diligence and dispatch that the water will be off for the least possible time. The contractor shall have as much as possible of the relocation section pre-assembled prior to shutting off the water and cutting into the existing water main. The contractor shall provide assistance to the water utility in the notification of all properties affected by the shutoff.

**Joint Restraint.** Mechanical joint restraint shall be installed at all bends, plugs, wyes, tees, and included in the cost bid for pipe installation. Joint restraints shall be Meg A Lug wedge action type joint restraints manufactured by EBBA Iron Sales or an approved equal.

## **D Measurement**

The department will measure D. I. Water Main With Poly Wrap 6-Inch and D. I. Water Main With Poly Wrap 8-Inch by the linear foot in place and the quantity measured for payment will be the number of feet completed and accepted according to the contract, measured along the centerline of the pipe, center to center of junctions and fittings. The length to be paid for will include the construction into or through all bends and fittings.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.68	D. I. Water Main With Poly Wrap 6-Inch	FT
SPV.0090.69	D. I. Water Main With Poly Wrap 8-Inch	FT

Payment is full compensation for furnishing all work and materials including all fittings, and couplings, for furnishing all excavation, sheeting and shoring, dewatering, if necessary, forming foundation, laying pipe, removing old pipe, sealing joints, and making connections

to new or existing fixtures; for testing and disinfecting; for furnishing granular backfill material; and for backfilling, removing sheeting, cleaning out and restoring site of work.

## **110. D. I. Hydrant Lead With Poly Wrap 6-Inch, Item SPV.0090.70.**

### **A Description**

This work consists of excavating required trenches, furnishing and laying ductile iron hydrant lead of the size and class specified, furnishing and installing all joint restraints, polyethylene wrap, disinfecting chemical, flushing the lead, pressure testing and continuity testing, back filling trenches and restoring the site of work, according to the requirements of the plans, the standard specifications and the City of La Crosse Standard Specifications for the construction of water main.

### **B Materials**

All water main materials shall conform to the AWWA Specifications latest designation specifications:

1. **Pipe.** Pipe shall be cement lined ductile iron pressure class 350 (350 psi) meeting ASTM C-104 latest designation, with minimum wall thickness of 0.25". Pipe gaskets will meet ASTM C-111. Approved manufactures of ductile iron water main are American Cast Iron Pipe, U.S. Pipe or an approved equal.
2. **Poly-Wrap.** Poly-wrap shall be 8 mil thickness and meet ASTM C-105, latest designation.

### **C Construction**

Hydrant Lead With Poly Wrap - 6 Inch, Item SPV.0090.70 shall be construct according to city of La Crosse Standard Specifications. Utilizing trench boxes, temporary shoring, and other means as necessary to protect existing road and shoulder. Comply with all applicable local, state and federal regulations.

### **D Measurement**

The department will measure Hydrant Lead With Poly Wrap - 6 Inch by the linear foot in place and the quantity measured for payment will be the number of feet completed and accepted according to the contract, measured along the centerline of the pipe, center to center of junctions and fittings.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.70	Hydrant With Poly Wrap 6-Inch	FT

Payment is full compensation for furnishing all work and materials including all fittings, and couplings, for furnishing all excavation, sheeting and shoring, dewatering if necessary, forming foundation, laying pipe, and making connections to new or existing water main, for testing and disinfecting; for furnishing granular backfill material; and for backfilling, removing sheeting, cleaning out and restoring site of work.

**111. SDR 35 PVC Sanitary Sewer Main 8 - Inch SPV.0090.71; SDR 35 PVC Sanitary Sewer Main 18 - Inch SPV.0090.75.**

**A Description**

This work consists of excavating required trenches, removing, furnishing and laying PVC sanitary sewer main of the size and class specified, leak testing, back filling trenches and restoring the site of work, according to the requirements of the plans, the standard specifications and the City of La Crosse Standard Specifications for the construction of Sewers.

**B Materials**

All sanitary sewer main work and materials shall conform to the ASTM Specifications latest designation specifications.

These standards for work and materials are also supplemented according to with the standard specifications for Sewer Construction, City of La Crosse, Wisconsin. The city specifications are available from the La Crosse City Engineer's Office, 400 La Crosse Street, La Crosse, WI 54601, (608) 789-7505.

1. **Pipe.** Pipe shall be SDR 35 PVC meeting ASTM D3034 for sanitary sewer pipe, latest designation. The PVC material shall be made from PVC resin compounded to meet the physical and mechanical properties that meet or exceed cell class 12454 or 12364 as defined in ASTM D1784. Approved manufactures of PVC sanitary sewer main are JM Eagle, North American, or an approved equal.

New gaskets shall be provided at all joints within new sanitary sewer. All gaskets shall conform to ASTM F477, latest edition.

2. **PVC Gasketed Sewer Fittings.** Fittings installed in-line with sewer pipe shall be compatible with SDR 35 PVC sewer pipe and shall meet ASTM D3034 standards for pipe fittings, latest designation. The PVC material shall be made from PVC resin compounded to meet the physical and mechanical properties that meet or exceed cell class 12454 or 12364 as defined in ASTM D1784. Approved manufactures of PVC sanitary sewer fittings are JM Eagle, North American, or an approved equal.

**C Construction**

SDR 35 PVC Sanitary Sewer Main 8 – Inch, SPV.0090.71; SDR 35 PVC Sanitary Sewer Main 18 – Inch, SPV.0090.75 shall be according to City of La Crosse Standard Specifications. Utilize trench boxes, temporary shoring, and other means as necessary to provide a safe working condition.

Open ends of pipe shall be closed during non-working periods by a watertight plug or other means approved by the engineer. If water is in the trench, the seal shall remain in place until the trench is pumped completely dry.

Cutting pipe shall be done in a neat and workmanlike manner without causing damage to the pipe. The cut edges shall be beveled so as not to cause damage to the gasket when inserted into a fitting.

The flow of sewerage shall be either pumped around the new manhole, or the flow blocked to allow the sewer main to be installed under dry conditions. The possibility of back-up shall be considered when blocking the flow of sewerage. Give notice to the engineer and City of La Crosse Waste Water Utility a minimum of one day in advance of the time he expects to begin work, of the time that will be required, and of the place where he expects to do said work.

#### **D Measurement**

The department will measure SDR 35 PVC Sanitary Sewer Main 8 – Inch and SDR 35 PVC Sanitary Sewer Main 18 – Inch by the linear foot in place and the quantity measured for payment will be the number of feet completed and accepted according to the contract, measured along the centerline of the pipe and will include any fittings.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.71	SDR 35 PVC Sanitary Sewer Main 8 Inch	FT
SPV.0090.75	SDR 35 PVC Sanitary Sewer Main 18 Inch	FT

Payment is full compensation for furnishing all work and materials including the PVC Pipe, excavation, sheeting and shoring, dewatering, if necessary, forming foundation, laying pipe, for testing, backfill material; and for backfilling, removing sheeting, cleaning out and restoring site of work.

### **112. SDR 35 PVC Sanitary Sewer Lateral 6 – Inch, SPV.0090.72.**

#### **A Description**

This work consists of excavating required trenches, removing, furnishing and laying PVC sanitary sewer laterals of the size and class specified, leak testing, back filling trenches and restoring the site of work, according to the requirements of the plans, the standard specifications and the City of La Crosse Standard Specifications for the Construction of Sewers.

#### **B Materials**

All water main work and materials shall conform to the ASTM Specifications latest designation specifications.

These standards for work and materials are also supplemented according to with the standard specifications for Sewer Construction, city of La Crosse, Wisconsin. The city specifications are available from the La Crosse City Engineer's Office, 400 La Crosse Street, La Crosse WI 54601, (608) 789-7505.

1. Pipe. Pipe shall be SDR 35 PVC meeting ASTM D3034 for sanitary sewer pipe, latest designation. The PVC material shall be made from PVC resin compounded to meet the physical and mechanical properties that meet or exceed cell class 12454 or 12364 as defined in ASTM D1784. Approved manufactures of PVC sanitary sewer main are JM Eagle, North American, or an approved equal.

New gaskets shall be provided at all joints. All gaskets will conform to ASTM F477, latest edition.

2. PVC Gasketed Sewer Fittings. Fittings installed in-line with sewer laterals shall be compatible with SDR 35 PVC sewer pipe and will meet ASTM D3034 standards for pipe fittings, latest designation. The PVC material shall be made from PVC resin compounded to meet the physical and mechanical properties that meet or exceed cell class 12454 or 12364 as defined in ASTM D1784. Approved manufactures of PVC sanitary sewer fittings are JM Eagle, North American, or an approved equal.

### **C Construction**

SDR 35 PVC Sanitary Sewer lateral 6 – Inch, SPV.0090.72 shall be according to City of La Crosse Standard Specifications. Utilize trench boxes, temporary shoring, and other means as necessary to provide a safe working condition.

Open ends of pipe shall be closed during non-working periods by a watertight plug or other means approved by the engineer. If water is in the trench, the seal shall remain in place until the trench is pumped completely dry.

Cutting pipe shall be done in a neat and workmanlike manner without causing damage to the pipe. The cut edges shall be beveled so as not to cause damage to the gasket when inserted into a fitting.

The flow of sewerage shall be either pumped around the new manhole, or the flow blocked to allow the sewer main to be installed under dry conditions. The possibility of back-up shall be considered when blocking the flow of sewerage. Give notice to the engineer and City of La Crosse wastewater utility a minimum of one day in advance of the time he expects to begin work, of the time that will be required, and of the place where he expects to do said work.

### **D Measurement**

The department will measure SDR 35 PVC Sanitary Sewer Lateral 6 – Inch by the linear foot in place and the quantity measured for payment will be the number of feet completed and accepted according to the contract, measured along the centerline of the pipe and will include any fittings.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.72	SDR 35 PVC Sanitary Sewer Lateral 6 Inch	FT

Payment is full compensation for furnishing all work and materials including the PVC Pipe, excavation, sheeting and shoring, dewatering, if necessary, forming foundation, laying pipe, for testing, backfill material; and for backfilling, removing sheeting, cleaning out and restoring site of work.

### **113. Removing Sanitary Sewer, Item SPV.0090.73.**

#### **A Description**

This special provision describes removing and disposing of designated sanitary sewer pipe as shown on the plans and as hereinafter provided.

#### **B (Vacant)**

#### **C Construction**

Do not remove existing pipe until it is no longer needed to carry sewage.

Excavate as required to expose pipe to be removed. Remove pipe from ground and legally dispose of it. Dispose of any remaining sanitary sewage in pipe according to WDNR requirements for removal and disposal of such contents.

Backfill as specified for trenches, holes, and pits in standard spec 204.3.1.2.

#### **D Measurement**

The department will measure Removing Sanitary Sewer by the linear foot, 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.0090.73	Removing Sanitary Sewer	LF

Payment is full compensation for removing and disposing of pipe including excavation, dewatering, backfilling, and compaction.

### **114. Water Main Casing Pipe 0.25" Wall with End Seals, 18-Inch, Item SPV.0090.76.**

#### **A Description**

This work consists of excavating required trenches, removing pavements, furnishing and welded steel casing pipe of the size and class specified, furnish and installing end seals between the casing and the water main pipe, all of the plans, the standard specifications and the City of La Crosse Standard Specifications for the construction of water main.

## **B Materials**

All casing and water main work and materials shall be compatible with AWWA Specifications for D. I. Water Main pipe, latest designation specifications.

These standards for work and materials are also supplemented according to with the standard specifications for Water Main Construction, city of La Crosse, Wisconsin. The city specifications are available from the La Crosse City Engineer's Office, 400 La Crosse Street, La Crosse WI 54601, (608) 789-7505.

1. **Casing Pipe.** Casing Pipe shall be new, 0.25 inch thick wall meeting ASTM A-252 for pipe pile and casing, latest designation. The steel shall be Grade 2 with minimum yield strength of 35,000 psi and tensile strength of 60, 000 psi. The casing pipe may be seamless or ERW welded seam type pipe.

2. **Casing End Seals:** The ends of the casing pipes shall be sealed to the water main carrier pipe by a pre-formed flexible seal designed to prevent water and soil from entering the annular space between the casing pipe and the carrier pipe. The seal may be a slip fit or lap seamed. End seals shall be water tight and will withstand pressure from ground water and back fill material without excessive deflection or failure.

3. **Casing Pipe Joints.** Casing pipe sections shall be joined by field welding performed by a certified welder(s).

## **C Construction**

Water Main Casing Pipe 0.25" Wall With End Seals – 18-Inch, Item SPV.0090.76 may be bored and jacked or may be installed in an open cut. All installation shall be coordinated with the engineer for minimal traffic disruption.

If installed in an open cut, the casing installation shall be coordinated with other excavations to minimize the road closures.

Open ends of casing pipe shall be closed during non-working periods by a watertight plug or other means approved by the engineer. If water is in the trench, the seal shall remain in place until the trench is pumped completely dry.

The casing pipe shall be installed with a minimum of 7 feet of cover from final grade.

If the casing pipe is installed in open cut trenches, it shall be in lengths that shall minimize the number of welded sections. The ends of the casing pipe shall be cut and trimmed in a neat and workmanlike manner without causing damage to the casing pipe. The cut edges shall be beveled so to allow field welding.

The completed casing pipe shall be cleaned of all debris and water before installing the water main carrier pipe. The contractor shall furnish lighting equipment for the inspection of the completed casing pipe.



**D Measurement**

The department will measure Water Main Casing Pipe 0.25" Wall With End Seals – 18-Inch by the linear foot in place and the quantity measured for payment will be the number of feet completed and accepted according to the contract, measured along the centerline of the casing pipe.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.76	Water Main Casing Pipe 0.25" Wall With End Seals- 18 Inch	FT

Payment is full compensation for furnishing all work including the bedding, backfill, and incidentals necessary to complete the work according to the contract.

**115. Support System For Water Main Inside Casing Pipe, 8 – 18-Inch, Item SPV.0090.77.****A Description**

This work consists of furnish and installing a spacer/support system on the 8 inch water main to support the main inside the casing pipe.

**B Materials**

These standards for work and materials are also supplemented according to with the standard specifications for Water Main Construction, City of La Crosse, Wisconsin. The city specifications are available from the La Crosse City Engineer's Office, 400 La Crosse Street, La Crosse WI 54601, (608) 789-7505.

**1. Support System For Water Main Inside Casing Pipe.** Support system for water main inside casing pipe shall be by a manufacturer with 10 years of experience in manufacturing pipe support systems.

Acceptable manufactures are RACI, Farwest Corrosion Control, Cascade Waterworks Manufacturing, or and owner approved equal.

**C Construction**

Support System For Water Main inside Casing Pipe – 8 to 18-Inch, Item SPV.0090.77 shall be installed on the water main inside the casing pipe.

Installation shall be according to the manufacturer's recommendations.

#### **D Measurement**

The department will measure Support System For Water Main inside Casing Pipe – 8 to 18-Inch by the linear foot of water main installed inside the casing pipe, end of pipe to end of pipe, completed and accepted according to the contract

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.77	Support System For Water Main Inside Casing Pipe – 8 – 18-Inch	FT

Payment is full compensation for furnishing all work necessary to complete the work according to the contract.

### **116. Sanitary Sewer Pipe RCP 36-Inch, Item SPV.0090.78.**

#### **A Description**

This special provision describes furnishing and installing new sanitary sewer as shown on the plans and as hereinafter provided.

#### **B Materials**

##### **B.1 Pipe**

RCP Pipe: Provide reinforced concrete pipe, ASTM C76, Class IV. Joints shall be bell and spigot type with rubber ring gasket complying with ASTM C443.

##### **B.2 Granular Bedding and Backfill**

Select soils complying with ASTM D2487 soil classification groups GW (well-graded gravel), GP (poorly-graded gravel), SW (well-graded sand), or SP (poorly-graded sand). Aggregate shall pass a 3/4-in. sieve and not more than 35% shall be retained on a No. 10 sieve. Maximum 5% by weight shall pass a No. 200 sieve.

#### **C Construction**

##### **C.1 Trenching and Backfilling**

Excavate and finish the trench to the depth required to provide a uniform base for the placement of 4 inches of granular bedding beneath the pipe. Level granular bedding to provide continuous bearing and support for the pipe. Following installation of the pipe, place granular backfill around the pipe, carefully worked under the haunches of the pipe and extended to one foot above the top of the pipe. Material native to the trench may be used for bedding and initial backfill provided it meets the requirements specified above for granular bedding and backfill.

Install sanitary sewer pipe to an elevation tolerance of plus or minus 0.03 feet of plan elevation or elevations provided on the grade sheet at any point along the pipe.

Backfill material for sanitary sewer from one foot above the top of pipe to the surface shall be material from trench excavation that is free of organic material and meets the approval of the engineer. Mechanically compact backfill material to a minimum of 95% of the maximum dry density as determined by the Standard Proctor Test (ASTM D-698).

Re-compact backfill material not meeting the above compaction requirements at no additional cost. Cost for additional testing required on re-compacted materials shall be at the contractor's expense.

## **C.2 Material Inspection**

Inspect pipe, fittings and appurtenances for defects when delivered to the job site and prior to lowering into the trench. Removed defective material shall be removed from the job site. All material shall be clean and free of deleterious substances prior to use in the work.

## **C.3 Pipe Joining**

Conform joint materials and methods to manufacturer's recommendations. Make rubber-type gasket joint using lubricant of vegetable origin. If rubber gasket is O-Ring type, lubricate groove in spigot before setting gasket.

## **C.4 Dewatering**

Keep the trench free of water during sanitary sewer installation. Provide all dewatering measures necessary to maintain a water free trench including but not limited to DNR permits and management of pumped water to prevent erosion and siltation downstream of point of discharge. Dewatering will be considered incidental to this item of work.

## **C.5 Leakage Testing**

Provide leakage testing of all sewer piping using infiltration, exfiltration or air testing. Infiltration testing may be used when ground water is 2 feet or greater above top of pipe. Exfiltration testing shall be performed with a minimum positive head of 2 feet above top of pipe. Air testing shall use procedures of ASTM F1417. Submit testing procedure for approval.

Exfiltration or infiltration of water into sewer shall not exceed 200 gallons per day per inch diameter per mile of sewer when tested for a minimum of 1 hr. Infiltration between two adjacent manholes shall not exceed 250 percent of rate allowed for entire project; repair visible leaks even if infiltration limits are met. Compute manhole allowances using vertical length of manhole below ground water level expressed as equivalent diameter sewer.

For air testing, furnish test plugs, air compressor, test gauge, stop watch and experienced personnel for conducting tests. Test pressure shall be based on an average of 3.5 psig net with length of test and allowable air loss according to ASTM F1417. Seal and brace wyes, tees, laterals, and plugs to withstand 5 psig pressure.

**D Measurement**

The department will measure Sanitary Sewer Pipe (material) (diameter) by the linear foot, acceptably completed. Measurement will be from center to center of new or existing manholes or to end of sewer pipe not terminating in a manhole. New sewers which begin at an existing connection 6-inch or more outside an existing manhole wall will be measured from the connection.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.78	Sanitary Sewer Pipe RCP 36-Inch	LF

Payment is full compensation for furnishing and installing all materials, including pipe and granular bedding and backfill; and for excavation, dewatering, backfilling, compaction, protection, and testing.

**117. Removing Sign Bridge S-32-18, Item SPV.0105.01; Bridge S-32-21, Item SPV.0105.02; Bridge S-32-19, Item SPV.0105.03; Bridge S-32-20, Item SPV.0105.04; Bridge S-32-03, Item SPV.0105.52.**

**A Description**

This special provision describes removing sign bridges according to the pertinent provisions of standard spec 204 and as hereinafter provided.

**B (Vacant)****C Construction**

Remove Sign Bridge, catwalk, and concrete footings, backfill the resulting holes, and dispose of all materials outside of the right-of-way according to standard spec 204.3 and 638.3. Removal of overhead sign structure may need to be accomplished with the use of rolling stops as described in the Traffic section of the special provisions.

**D Measurement**

The department will measure Removing Sign Bridge (Structure) as a single lump sum unit of work for removal, 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	Removing Sign Bridge S-32-18	LS
SPV.0105.02	Removing Sign Bridge S-32-21	LS
SPV.0105.03	Removing Sign Bridge S-32-19	LS
SPV.0105.04	Removing Sign Bridge S-32-20	LS
SPV.0105.52	Removing Sign Bridge S-32-03	LS

Payment is full compensation for disassembling and removing the sign bridge and all attached components, removing the concrete footing, and for properly disposing of materials, restoring areas disturbed by construction activities.

**118. Adjusting Construction Staking Project 1071-06-83, Item SPV.0105.05; Project 7190-03-72, Item SPV.0105.06; Project 1071-06-82, Item SPV.0105.50.**

**A Description**

This special provision describes the verification of existing edge of pavement in areas where widening or crossovers tie into existing pavement. The proposed profiles and cross sections have been based on flight survey data. Adjust construction staking items as necessary to fit actual field conditions.

**B (Vacant)**

**C Construction**

Prior to grading widening and crossovers, survey the existing edge of pavement in areas adjacent to widening and crossovers. Adjust the elevations for construction staking Subgrade and Construction Staking Base as necessary to allow the widening and crossover finished surfaces to match the existing adjacent edge of pavement elevations in these areas.

**D Measurement**

The department will measure Adjust Construction Staking Project 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.0105.05	Adjusting Construction Staking Project 1071-06-83	LS
SPV.0105.06	Adjusting Construction Staking Project 7190-03-72	LS
SPV.0105.50	Adjusting Construction Staking Project 1071-06-82	LS

Payment is full compensation for survey work necessary to locate the existing edge of pavement in areas of widening or crossover, confirming/revising proposed profiles and paving elevations; and for all stakes and flags.

**119. Concrete Pavement Joint Layout Project 1071-06-83, Item SPV.0105.07; Project 7190-03-72, Item SPV.0105.08; Project 1071-06-82, Item SPV.0105.51; Project 1071-06-82, Item SPV.0105.51.**

**A Description**

This special provision describes providing a concrete pavement or concrete base joint layout design for intersections and marking the location of all joints in the field.

**B (Vacant)**

**C Construction**

Plan and locate all points necessary to establish the horizontal position of the transverse and longitudinal joints in the concrete to prevent uncontrolled cracking. Submit a joint layout design to the engineer before paving each intersection. Mark the location of all concrete joints in the field. Follow the plan details for joints in concrete making adjustments as required to fit field conditions.

**D Measurement**

The department will measure Concrete Pavement Joint Layout (Project) as a single lump sum unit for all joint layout designs and marking, acceptably completed under the contract.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.07	Concrete Pavement Joint Layout Project 1071-06-83	LS
SPV.0105.08	Concrete Pavement Joint Layout Project 7190-03-72	LS
SPV.0105.51	Concrete Pavement Joint Layout Project 1071-06-82	LS

Payment is full compensation for providing the intersection joint layout designs and marking all joints in the field.

The department will adjust pay for crack repairs as specified in standard specification 415.5.3.

**120. Construction Staking Eagle Viewing Area, Item SPV.0105.09; Construction Staking Ramp Removal Southeast Quad, Item SPV.0105.10; Construction Staking Ramp Removal Northeast Quad, Item SPV.0105.11; Construction Staking Ramp Removal Northwest Quad, Item SPV.0105.12.**

**A Description**

Perform work according to the applicable provisions of standard spec 650. Provide construction staking of the Eagle Viewing Area and Ramp Removal areas to allow the contractor to construct contours as shown on the plans.

**B (Vacant)**

**C Construction**

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Locate stakes to within 0.25 feet horizontally and establish the grade elevation to within 0.05 feet vertically for grading. Adjust staking to match existing ground and constructed slopes as necessary.

## **D Measurement**

The department will measure Construction Staking (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.0105.09	Construction Staking Eagle Viewing Area	LS
SPV.0105.10	Construction Staking Ramp Removal Southeast Quad	LS
SPV.0105.11	Construction Staking Ramp Removal Northeast Quad	LS
SPV.0105.12	Construction Staking Ramp Removal Northwest Quad	LS

Payment is full compensation for locating and setting all construction stakes and for relocating and resetting damaged or missing construction stakes.

## **121. Shade Structure, Item SPV.0105.20.**

### **A Description**

This special provision describes furnishing, designing footing, and installing the Shade Structure as shown on the plans and as directed by the engineer.

### **B Materials**

Provide fabric shading structure with arching steel piping arms radiating outward from a curved central support column to create a 5-point tensioned shade canopy.

#### **B.1 Structure**

Central support column: Schedule 40 black steel pipe

Support Arms: Cold-formed tubing per ASTM A-135 and ASTM A-500

Weldments: Factory-welded by Certified Welders to American Welding Society (AWS) specifications.

#### **B.2 Fabric**

Polyethylene knitted shade fabric with reinforced corners complying with NFPA 701, ASTM-E84, and CAFM-13115.

Color: White

Knitted of monofilament and tape construction high density polyethylene with Ultra Violet (U.V.) stabilizers and flame retardant.

Nominal Thickness: 0.057 inches

Fabric Mass: Min. 337 g/m<sup>2</sup>

Light Fastness: 7-8 (Blue Wool Scale)

Weather Fastness: 4-5 (Grey Scale Test)

Tear Resistance: Warp 210N, Weft 276N

Breaking Force: Warp 786N, Weft 1544N

Bursting Pressure: Mean 3125kPa

Bursting Force: Mean 1775N

UV-Block Factor: Min. 90%

### **B.3 Metal Finish**

Completely clean, sand-blast, and apply a hot zinc phosphate pretreatment with non-chromic sealer. Apply primer and then powder-coating. Polyester powders shall meet or exceed ASTM standards for Adhesion, Hardness, Impact, Flexibility, Overbake Resistance, and Salt Spray Resistance.

Color: Blue

### **B.4 Connections**

316 Stainless Steel.

Cables and fastening mechanism: Minimum 1/4" diameter stainless steel cables with factory-looped ends and concealed in hems. Canopy tensioned at a single point near the base using stainless steel hardware to tension fabric for a taut fit.

### **B.5 Concrete Foundation**

Per standard spec 636, applicable building codes and as shown on plans.

### **C Construction**

Install per manufacturer's recommendations in the location shown on the plans and as directed by the engineer.

Concrete foundation per standard spec 636.

### **D Measurement**

The department will measure the Shade Structure as a 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.0105.20	Shade Structure	LS

Payment is full compensation for furnishing, engineering, transporting and installing all materials including footings.

## **122. Construction Staking Landscaping Items, Item SPV.0105.21.**

### **A Description**

This section describes the contractor-performed construction staking required under individual contract bid items to establish the horizontal and vertical position for the following items:



- Concrete Pavement Trail
- Colored Concrete Bands
- Limestone Screenings Path
- Stone Screenings with Binder
- Bench Type A
- Bike Rack
- Surface Mounted Trash Receptacle
- Shade Structure
- Concrete Bollard Base
- Electrical installations
- Decorative Lighting Unit 20-Foot
- Decorative Bollard
- Subgrade
- Base
- Entry Sign
- Spotting Scope Type A and Type B
- Permeable Pavers
- Native Prairie
- Pollinator Mix
- Furnishing and Planting Perennial Plant Materials
- No-Mow Fescue
- Plaza Seat Stone Type A, Type B, Type C
- Lawn Seat Stone Type A, Type B, Type C

## **B General**

Department and contractor responsibilities for construction staking are specified in the standard specifications standard spec 105.6. Conform to standard spec 105.6 and the additional requirements specified here in standard spec 650.3 for the individual contractor-staking bid items the contract includes.

## **C Construction**

Set construction stakes for each landscaping item listed under the description. Locate stakes within 0.25 feet horizontally or as the engineer directs.

## **D Measurement**

The department will measure Construction Staking Landscaping Items according to standard spec 650.4.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.21	Construction Staking Landscaping Items	LS

The department will not make final payment for any staking item until the contractor submits all survey notes and computations used to establish the required lines and grades to the engineer within 21 days of completing this work. The department will deduct from payments due the contractor for the additional costs specified in standard spec 105.6.

Payment is full compensation for locating and setting all construction stakes; for relocating and resetting damaged or missing construction stakes.

## **123. Debris Containment Special, Structure B-32-67, Item SPV.0105.22.**

### **A Description**

This special provision describes providing a containment system for the specified structure to prevent debris resulting from removal and reconstruction operations from falling to the ground. Using this containment system does not relieve the contractor of the requirements under standard spec 107.17 and 107.19.

### **B (Vacant)**

### **C Construction**

#### **C.1 Debris Containment Plan**

Before starting work, submit a debris containment plan to the engineer for review. Conform to "Guidelines for Preparation of a Bridge Demolition and Removal Plan Over The BNSF Railway" published by the BNSF Railway Company and available from:

Office of Director Bridge Engineering  
4501 Kansas Avenue  
Kansas City, KS66106

Also incorporate engineer-requested modifications. Do not start work over railroad or other facilities until the engineer approves the debris containment plan.

#### **C.2 Debris Containment System**

Maintain adequate protection for people and property within the potential fall zone throughout construction. Ensure that a containment system capable of preventing construction debris from falling to the ground is in place and functioning properly before beginning deck repair, parapet removal, or other operations that may generate falling debris. At least 15 working days before conducting potential debris generating operations, contact the following owners or leasees:

BNSF Railway Company  
80-44<sup>th</sup> Avenue NE  
Minneapolis, MN 55421  
Attn: Calvin Nutt  
Manager of Special Projects - Industry and Public Projects  
Phone: (763) 782-3495

### **D Measurement**

The department will measure Debris Containment Special Structure B-32-67 as a single lump sum unit of work for each structure, 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.0105.22	Debris Containment Special, Structure B-32-67	LS

Payment for Debris Containment Special Structure is full compensation for furnishing, installing, maintaining, and removing a debris containment system.

This special provision describes providing a containment system to prevent debris from structure removal, reconstruction, or other construction operations from falling onto facilities located under the structure.

**124. Landscape Irrigation System, Item SPV.0105.23.****A Description**

This special provision describes designing, furnishing, installing, training, and testing a landscape irrigation system as shown on the plans and as hereinafter provided.

**B Materials****B.1 Design Requirements**

Provide design for a complete landscape irrigation system to water areas as shown on plans.

Provide pump system to supply water to irrigate the areas shown on the plans.

Provide head to head coverage. Size zones to meet head loss requirements based on an 8-inch diameter supply line.

Static water pressure at the water main is +/- 80 psi.

Locate controller as shown on plans or directed by the engineer.

Provide a self-draining curb stop ahead of the connection to the backflow prevention device to aid in the winterization of the system.

**B.2 Materials, General**

The same brand or manufacturer shall be used for each specific application of valves, fittings, controls, and other equipment.

All materials shall be new and of the quality specified.

All equipment shall be listed, approved, or rated by a nationally recognized testing and rating bureau of recognized manufacturers association responsible of setting industry standards. All electrical equipment and apparatus shall be U.L. listed.

### **B.3 Underground Pipe**

Underground irrigation piping shall be PVC pipe; polyethylene pipe may be used for sizes 1-1/2 in. and smaller.

PVC Pipe: ASTM D1785, Sch. 40, or ASTM D2241, SDR-26, having minimum 160 psi working pressure rating. Joints shall be solvent weld.

Polyethylene Pipe: ASTM D2239, PE-2306, having a minimum 100 psi working pressure rating. Joints shall be made with PVC or nylon insert fittings with two stainless steel clamps per joint.

### **B.4 Sprinkler Heads**

Full and part circle sprinklers shall be gear drive rotary type, designed with an integral check valve for control of line drainage.

Retraction shall be achieved by a heavy duty stainless steel retraction spring. Sprinkler shall have a riser seal and a wiper. Rotation shall be accomplished by a sealed, oil packed gear assembly isolated from water supply. Sprinkler housing shall be of high impact molded plastic with a 3/4-in. NPI connection. Sprinkler shall have a large strainer in order to prevent nozzle clogging. Sprinkler shall be constructed such that it is serviceable from the top, the drive assembly, screen, and all internal components should be accessible through top of sprinkler without disturbing case installation. Radius reductions up to 25% shall be accomplished with a radius adjustment screw accessible from top of cap.

Heads shall be mounted on three-way swing joints.

Degree of arc shall be as required to meet configuration of area to be sprinkled.

Provide fully adjustable irrigation heads sized appropriately to the surface area to be watered. Do not undersize head or overdrive the nozzle with excessive pressure.

### **B.5 Remote Control Valves**

1-1/2-inch and 2-inch valves shall be of globe configuration with a 2-inch female pipe thread inlet and outlet connections. Diaphragm shall be of rubber construction to retain flexibility and provide maximum sealing throughout its area. Valves shall have a hand-operated, rising-type flow control stem with control wheel/handle. All parts shall be serviceable without removing valve from the line. Valves shall be installable at any angle without affecting valve operation. Valve friction loss shall not exceed 5 psi.

### **B.6 Valve Boxes**

Plastic valve box for each buried valve of appropriate size and type. Valve box shall provide adequate space for valve maintenance.

### **B.7 Quick Coupling Valves/Winterizing System**

3/4-inch quick coupling valve with matching key.

**B.8 Automatic Controller**

Low voltage, solid state controller manufactured expressly for control of automatic valves for landscape irrigation systems.

Provide a controller with minimum of 12 stations.

Provide a wireless remote control system that will complement the system. Provide two transmitters for the operation of the system.

Controller shall have capacity to assign from 5 minutes to 60 minutes of run time to any Station and shall have a minimum of two programs. Timing shall be accomplished by solid state means.

Controller shall have choice of scheduling on basis of seven-day calendar, 1 to 7 day interval, and odd/even with a 365-day calendar. Include a moisture sensor or other water conservation system to shut off water during rain.

A pump/master valve circuit shall be provided to activate a remote pump start relay to run pump during sprinkling cycle or to use with a master valve to pressurize system during sprinkling cycle.

Controller enclosure shall be enameled-steel or stainless steel sheet metal, pedestal mounted, NEMA 250, Type 4, weatherproof, with locking cover and two keys.

**B.9 Control Wire**

Electric control lines from controller to automatic valves shall be 24 volt solid, direct burial wire, 14 gage minimum.

**B.10 Tracer Wire**

Tracer wire shall be No. 14 AWG solid single copper wire with blue plastic coating. Tracer wire splices shall be made with inline resin splice kits.

**B.11 Backflow Preventer**

State approved, testable backflow prevention device for lawn sprinkler systems.

**B.12 Permits, Licenses, and Certificates**

Procure permits and licenses, pay all charges and fees, and give notices necessary for proper and lawful prosecution of work. Obtain certificates required to show that work has been performed according to applicable codes, rules, and regulations.

Arrange and pay for inspections required for work under this section.

**B.13 Submittals**

Shop Drawings: Submit shop drawings (to scale), product data, and design calculations for landscape irrigation system.

O/M Manuals: Submit O/M manuals for all equipment.

Permits and Approvals: Submit copies of permits and code approvals.

Record Drawings: Submit record drawings showing complete layout of sprinkler heads, valves, drains, and pipe lines. Record horizontal and vertical dimensions to all items from permanent reference points. Make and record measurements to nearest 0.5 foot.

#### **B.14 Extra Materials**

Furnish 6 extra sprinkler heads and nozzles of each type used.

### **C Construction**

#### **C.1 Excavating and Backfilling**

Excavate as required for the proper installation of work.

Backfill trenches with material free from rock, large stone or other material which may damage pipe. Compact backfill material in 6-inch layers to finish grade to the density of surrounding undisturbed soil.

Backfill of trenches containing plastic piping when pipe is cool.

#### **C.2 Pipe Installation**

Underground pipe shall be installed with a minimum depth of cover of 18 inch for main lines under constant pressure and 12 inch for lateral lines.

Install pipe according to manufacturer's recommendation.

Securely cap piping at the end of each day's work to prevent entrance of foreign material. Flush piping before installation of heads and valves.

Install tracer wire through each zone from valve to last sprinkler head.

#### **C.3 Valve and Accessory Installation**

Install buried valves in valve boxes. Provide union on downstream side. Locate valves at least 12 inch from walks, buildings, walls, and other boundaries.

Install winterizing system.

#### **C.4 Head Installation**

Locate heads as necessary to avoid plantings and other obstructions. Direct water toward plants without excessive pressure against plant or plant stem.

Install heads at manufacturer's recommended height and adjust for proper distribution.

#### **C.5 Automatic Controller and Wiring Installation**

Locate controller in general location shown with exact placement to be determined at jobsite by Owner.

Label control lines at controller with permanent non-fading labels indicating identification number of valve controlled.

Run wiring along supply line piping wherever practical. Tie wires in bundles at 10 foot intervals. Place on bottom side of pipe (minimum depth of 12 inch).

Run control wire to each valve without interruption. Common wires may be spliced at valves only.

Make connections and splices by crimping base wires with brass connectors and sealing with epoxy resin sealer packs.

Provide 24 inch minimum wiring loop at each control valve and splice location. Coil loops neatly in boxes.

### **C.6 Casing Pipes**

Pipe and wiring passing under existing or future paving and other construction shall be encased in PVC plastic casing pipe extending at least 12 inches beyond edges of paving or construction. Minimum cover on casing pipes shall be 12 inches.

### **C.7 Tests and Adjustments**

Conduct tests of systems as required by codes, regulatory agencies, and this specification. Notify engineer and regulatory agencies prior to conducting tests.

Apply a hydrostatic test of 100 psi to main line (pump/master valve to control valves).

Test complete system under full line pressure.

All necessary testing equipment shall be furnished by contractor.

After completion of grading, sodding or seeding, and rolling of grass areas, carefully adjust landscape irrigation heads so that they will be flush with, or not more than 1/2 inch above, the finish grade.

### **C.8 Manufacturer Services**

Train Owner's personnel on operation and maintenance of system.

Following installation and prior to first winter, drain system and, the following spring, put system into operation without additional cost to owner.

### **C.8 Layout**

Stake out locations of all pipes and obtain approval of staked locations from engineer before installing.

#### **D Measurement**

The department will measure Landscape Irrigation System 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.0105.23	Landscape Irrigation System	LS

Payment is full compensation for designing landscape irrigation system for the criteria specified; furnishing and installing all materials; testing and adjusting the system; and training of a representative from the city of La Crosse.

- 125. Paint Structure S-32-50, Item SPV.0105.30; S-32-51, Item SPV.0105.31; S-32-52, Item SPV.0105.32; S-32-53, Item SPV.0105.33; S-32-54, Item SPV.0105.34; S-32-55, Item SPV.0105.35; S-32-56, Item SPV.0105.36; S-32-65, Item SPV.0105.37; S-32-66, Item SPV.0105.38; S-32-68, Item SPV.0105.39.**

#### **A Description**

This special provision describes coating sign bridges and overhead sign supports black according to standard spec 517 and 641 and as hereinafter provided.

#### **B Materials**

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

After galvanizing, coat all exterior surfaces of sign bridge and overhead sign support assemblies with a two coat system as hereinafter provided.

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



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

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

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

Manufacturer	Coat	Products	Dry Film Minimum Thickness (mils)	Min. Time <sup>1</sup> Between Coats (hours)
Sherwin Williams 1051 Perimeter Drive Suite 710 Schaumburg, IL 60173 (847) 330-1562	Tie	Recoatable Epoxy Primer	2.0 to 4.0	6
	Tie	B67-5		
	Top	Series/B67V5 Macropoxy 646 Acrolon 218 HS Polyurethane, B65- 650	2.0 to 4.0	NA
Carboline 350 Hanley Industrial St. Louis, MO 63144 (314) 644-1000	Tie	Rustbond	1	36
		Penetrating Sealer		
	Tie	FC	4.0 to 6.0	10
	Tie	Carboguard 60	4.0 to 6.0	1
		Carboguard 635		
	Top		4	NA
		Carbothane 133 LH(satin)		

Wasser Corporation 4118 B Place NW Suite B Auburn, WA 98001 (253) 850-2967	Tie	MC-Ferrox B 100	3.0 to 5.0	8
	Top	MC-Luster 100	2.0 to 4.0	NA
PPG Protective and Marine Coatings P.O. Box 192610 Little Rock, AR 72219-2610 (414) 339-5084	Tie	Amercoat 399	3.0 to 5.0	3
	Top	Amercoat 450H	2.0 to 4.0	NA

<sup>1</sup> Time is dependent on temperature and humidity. Contact manufacturer for more specific information.

## **C Construction**

### **C1 Delivery, Storage and Handling**

Deliver material to the site in an undamaged condition. Upon receipt at the job site, thoroughly inspect all materials to ensure that no damage occurred during shipping or handling and conditions of materials is in conformance with these specifications. Handle coated assemblies according to standard spec 517. If coating is damaged, repair or replace assemblies to the approval of the engineer at no additional cost to the owner. Carefully store the material off the ground to ensure proper ventilation and drainage. Exercise care so as not to damage the coated surface during installation. No field welding, field cutting or drilling will be permitted without the approval of the engineer.

### **C2 Touch-up and Repair**

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

## **D Measurement**

The department will measure Paint Structure as a single lump sum unit of work for the coating, acceptably completed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.30	Paint Structure S-32-50	LS
SPV.0105.31	Paint Structure S-32-51	LS
SPV.0105.32	Paint Structure S-32-52	LS
SPV.0105.33	Paint Structure S-32-53	LS
SPV.0105.34	Paint Structure S-32-54	LS
SPV.0105.35	Paint Structure S-32-55	LS
SPV.0105.36	Paint Structure S-32-56	LS
SPV.0105.37	Paint Structure S-32-65	LS
SPV.0105.38	Paint Structure S-32-66	LS
SPV.0105.39	Paint Structure S-32-68	LS

Payment is full compensation for preparing and cleaning the assemblies; and for furnishing and applying the paint.

## **126. Entry Sign, Item SPV.0105.40.**

### **A Description**

This work consists of furnishing and installing Entry Sign, complete in place at the location designated on the plans, or as directed by the engineer. It shall include furnishing all necessary materials and such necessary incidentals there-to including stainless steel lettering, oak timber, steel supports, concrete foundations, lawn sign stones and all connections to complete the item according to the plans, specifications, and contract.

### **B Materials**

Furnish Entry Sign to match the style shown on the plans. Plan details depict the general design of Entry Sign required. Minor deviations in dimensions and profiles will be allowed, provided the requirements specified below and the general style shown in the plans are met. Provide Entry Sign manufactured according to the details in the plans and with the following materials:

3-year manufacturer's warranty

#### **B.1 Steel**

Furnish Entry Sign steel materials meeting the following requirements:

- Perforate Corten Steel Sign: Cor-Ten A, A242, ½" thick.
- Square Steel Support Post: ASTM A 500, cold-formed steel tubing, 3" square.
- Support Post: 8.625" O.D., ASTM A 53/A 53M, standard weight (Schedule 40).
- Stainless Steel Letters: Formed free from warp and distortion; with uniform faces, sharp corners, and precisely formed lines and profiles, character material: sheet or plate stainless steel, material thickness: manufacturer's standard for size and design of character, character height: as indicated on the plans, typeface: as indicated on the plans.
- Steel Members Fabricated from Plate or Bar Stock: ASTM A 529/A 529M or ASTM A 572/A 572M, 42,000-psi minimum yield strength.

- For steel exposed to view on completion, provide materials having flat, smooth surfaces without blemishes. Do not use materials whose surfaces exhibit pitting, seam marks, roller marks, rolled trade names, or roughness. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## **B.2 White Oak Timber**

Furnish materials conforming to standard spec 507.

*Replace standard spec 507.2.2.2 with the following:*

Furnish White Oak.

*Delete standard spec 507.2.2.6.*

## **B.3 Connections**

Anchor bolts: According to standard spec 507.2.5.

## **B.4 Concrete Foundation**

Concrete foundations shall be according to manufacturer's recommendations and standard spec 636.

## **B.4 Lawn Sign Stones**

Per Lawn Seat Stone bid item and sized as shown on the plans.

## **C Construction**

### **C.1 Fabrication**

Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

Form exposed work with accurate angles and surfaces and straight edges.

Weld corners and seams continuously to comply with the following:

- Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
- Obtain fusion without undercut or overlap.
- Remove welding flux immediately.

Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.

At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing.

Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or corrosion resistant welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated.

Locate joints where least conspicuous.

Fabricate seams and other connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

## **C.2 Concrete Foundation**

Concrete foundations shall be according to manufacturer's recommendations and standard spec 636.

## **C.3 Placement**

Locate signs and accessories where indicated according to the plans and details.

Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.

Direct bury steel support post(s) as necessary to accommodate design wind loads on the signs. Provide concrete footings as necessary.

Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

Field Welding: Comply with the following requirements:

- Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
- Obtain fusion without undercut or overlap.
- Remove welding flux immediately.
- At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

Fastening to In-Place Construction: Provide corrosion resistant anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

Fill Grade around base to ensure positive drainage away from signs.

Place lawn sign stone per Lawn Seat Stone bid item.

#### **D Measurement**

The department will measure the Entry Sign as a 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.0105.40	Entry Sign	LS

Payment is full compensation for furnishing, hauling, installing and compacting.

- 127. Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose Street and Palace Street, Item SPV.0105.41; Rose Street and George Street, Item SPV.0105.42; STH 35 and George Street, Item SPV.0105.43; Rose Street and I-90 Eastbound Ramps (Setup 1), Item SPV.0105.44; Rose Street and I-90 Eastbound Ramps (Setup 2), Item SPV.0105.45; Rose Street and I-90 Westbound Ramps (Setup 1), Item SPV.0105.46; Rose Street and I-90 Westbound Ramps (Setup 2), Item SPV.0105.47; Rose Street and I-90 Westbound Ramps (Setup 3), Item SPV.0105.48.**

## **A Description**

This special provision describes furnishing, installing, maintaining and placing into operation a temporary non-intrusive vehicle detection system (NIVDS) as shown on the plans, and as directed by the engineer.

## **B Materials**

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway and provides detection outputs to a traffic signal controller. The materials shall also include all brackets, mounting hardware, cable, terminations, interface panels, and all other incidentals for the installation of the non-intrusive vehicle detection equipment.

All detection equipment, components, and terminations supplied under this item shall be fully compatible with the temporary traffic signal controller supplied for the project. The system architecture shall fully support Ethernet networking of system components. All required interface equipment needed for transmitting and receiving data shall be provided with the temporary NIVDS.

The temporary NIVDS shall provide flexible detection zone placement anywhere and at any orientation. Preferred detector configurations shall be detection zones placed across lanes of traffic for optimal count accuracy, detection zones placed parallel to lanes of traffic for optimal presence detection accuracy of moving or stopped vehicles. Detection zones shall be able to be overlapped for optimal road coverage.

## **C Construction**

The temporary NIVDS shall be installed by supplier factory-certified installers and as recommended by the supplier and documented in installation materials provided by the supplier.

In the event, at installation or turn on date, a noticeable obstruction is present in line with the detection zone(s), the contractor shall be obligated to advise the engineer before setting the zone.

The non-intrusive vehicle detection system, as shown in the traffic signal construction plans, shall be complete, in place, tested, and in full operation during each stage of construction.

Maintain all temporary vehicle detection zones as the plans show or as the engineer directs. The temporary vehicle detection zones shall be set near the vicinity and with approximate distance from the stop bar as shown on the plans. Check temporary vehicle detection zones every other week and at the opening of each stage of temporary traffic signal operation to ensure that they are working properly and aimed properly. Periodic adjustment of the detection zones and/or moving of the temporary vehicle detection sensors may be required due to changes in traffic control, staging, or other construction operations.

Ensure the non-intrusive vehicle detection system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

**D Measurement**

The department will measure Temporary Non-Intrusive Vehicular Detection System for Intersections (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.0105.41	Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose St. and Palace Street	LS
SPV.0105.42	Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose St. and George Street	LS
SPV.0105.43	Temporary Non-Intrusive Vehicle Detection System for Intersections, STH 35 and George Street	LS
SPV.0105.44	Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose Street and I-90 Eastbound Ramps (Setup 1).	LS
SPV.0105.45	Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose Street and I-90 Eastbound Ramps (Setup 2).	LS
SPV.0105.46	Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose Street and I-90 Westbound Ramps (Setup 1).	LS
SPV.0105.47	Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose Street and I-90 Westbound Ramps (Setup 2).	LS
SPV.0105.48	Temporary Non-Intrusive Vehicle Detection System for Intersections, Rose Street and I-90 Westbound Ramps (Setup 3).	LS

Payment is full compensation for furnishing and installing the temporary non-intrusive vehicle detection system, including cabling, mounting brackets, mounting hardware, terminations, interface panels, testing and set up; periodic checking and resetting of detection zones; periodic cleaning for dirt and dust build-up; and for removing all equipment at the completion of the project.

**128. Sanitary Sewer Bypass Pumping, Item SPV.0105.53.****A Description**

This special provision describes bypass pumping of sanitary sewer to allow for installation of new pipe as shown on the plans and as hereinafter provided.

**B (Vacant)****C Construction**

Maintain sewerage service during construction.



Submit a plan for bypass pumping to engineer for review. This plan shall contain, but not be limited to, bypass location, bypass pipe material, schedule and duration of bypass, type and style of pumps, power source for pumps, etc.

Contractor shall have on site one pump for each bypass location, as required for the approved work plan, of sufficient size to handle peak daily flow. In addition, a back-up pump of sufficient size to handle peak daily flow independently shall be on site. If pumping occurs simultaneously at two or more locations, the back-up pump shall be of sufficient size to handle the largest peak daily flow independently. Contractor shall be responsible for any damages or back-ups that occur as a result of the bypass.

All lines shall be restored to gravity flow at the completion of the work day unless approved by engineer. Maintain a 24 hour per day watch on all active bypass pumping equipment.

#### **D Measurement**

The department will measure Sanitary Sewer Bypass Pumping 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.0105.53	Sanitary Sewer Bypass Pumping	LS

Payment is full compensation for preparing a bypass pumping plan and furnishing, installing, monitoring, maintaining, and removing bypass system.

### **129. Sanitary Manhole Modifications, Item SPV.0105.54.**

#### **A Description**

This special provision describes modifying an existing sanitary sewer manhole as shown on the plans, and according to the applicable provisions of standard spec 611 and as hereinafter provided.

#### **B Materials**

Provide precast reinforced concrete riser (barrel) section to replace existing top riser section that is of the new height required to make needed adjustment in manhole height. Conform riser to ASTM C478. Embed manhole steps as required to match location and spacing of existing eccentric cone steps.

Provide manhole cover of the approximate dimensions and weight of Manhole Cover Type J-Special, but with gasket seal and bolted lid (with stainless steel bolts) to make cover watertight. Set covers using a minimum of 6 inches of precast reinforced concrete adjusting rings and 3-1/2 inch wide by 3/8-inch thick preformed butyl rubber sealant complying with ASTM C990.

Provide manhole chimney seal consisting of an external, flexible rubber sleeve and stainless steel compression bands (if compression bands are required by manufacturer) designed to prevent leakage of water into manhole in adjusting ring area between manhole frame and top of cone or flat top. Seal shall remain flexible, allowing repeated vertical movements of frame due to frost lift, ground movement, or other causes of up to 2 in. and/or repeated horizontal movements of frame due to thermal movement of pavement or other causes of up to 1/2 in. for a 20-year design life. Provide Adaptor, Inc. "I/E.A. Seal", Cretex Specialty Products "External Manhole Chimney Seal", Sealing Systems, Inc. "Infi-Shield Uniband", or approved equal.

Provide manhole steps of the type specified in standard spec 611, but suitable for field installation in existing concrete manhole. Provide epoxy grout as recommended by the manhole step manufacturer for grouting new steps into place.

### **C Construction**

Excavate as required to remove existing manhole cover, adjusting rings, eccentric cone section, and top riser (barrel) section. Salvage eccentric cone section for reuse. Dispose of removed materials that will not be reused.

Clean joint at top of manhole riser that remains in place and apply new butyl rubber sealant. Install new, shorter riser section of required height; use butyl rubber sealant for all joints. Rotate and set existing cone section into place as shown on plan details.

Place butyl rubber sealant in 3-1/2 inch widths between the cone section and adjusting ring, between any additional adjusting rings required to bring the cover to finished grade, and between the top adjusting ring and cover. In placing the sealant material, take care to seal the entire circumference of the ring to preclude infiltration of water. Accomplish adjustment of frames to street cross slope with mortar in the outside 1-3/4 inch of the adjusting ring and equivalent layers of sealant material inside the mortar.

Install chimney seal according to manufacturer's instructions.

Remove manhole steps from existing manhole base and riser sections by cutting steps off flush at manhole wall. If voids are left in manhole wall by step removal process, fill voids with non-shrink grout.

Install new manhole steps in existing manhole base and riser sections to align with steps in rotated cone section and new top riser section. Space steps a maximum of 16 inches on center and coordinated with location of existing cone section steps. Core drill holes for new steps into existing manhole wall and embed and grout new steps a minimum of 3 inches. Comply with step manufacturer's instructions for installation into existing concrete.

Make all joints watertight, with no visible signs of leakage at the time of final inspection.

Backfill and compact as specified for excavation for structures in standard spec 206.

**D Measurement**

The department will measure Sanitary Manhole Modifications 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.0105.54	Sanitary Manhole Modifications	LS

Payment is full compensation for furnishing and installing all materials, including manhole riser (barrel) section, manhole cover, reinforced concrete adjusting rings, joint material, chimney seal, and manhole steps; reinstalling existing eccentric cone section; and for furnishing all excavation, backfilling, and compaction required to perform the work.

**130. Lift Station Wall Modification, Item SPV.0105.55.****A Description**

Work under this item consists of furnishing and constructing a cast-in-place concrete wall, and coring a hole through the existing concrete wall at the location shown on the plans. Perform the work according to pertinent parts of the standard specifications, the plans, and these special provisions.

**B Materials****B.1 Concrete**

Use materials that conform to concrete masonry as specified in standard spec 501.

**B.2 Steel Reinforcement**

Use materials that conform to standard spec 505.

**B.3 Structure Backfill**

Use materials that conform to standard spec 506.

**C Construction****C.1 Concrete**

Conform to construction requirements in standard spec 501.

**C.2 Steel Reinforcement**

Conform to construction requirements in standard spec 505.

**C.3 Structure Backfill**

Conform to construction requirements in standard spec 506.

**D Measurement**

The department will measure Lift Station Wall Modification as a lump sum unit of work, acceptably installed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV. 0105.55	Lift Station Wall Modification	LS

Payment for Lift Station Wall Modification is full compensation for furnishing, placing, finishing, curing and protecting concrete masonry; for furnishing, fabricating and placing the bar steel reinforcement; for furnishing all labor and equipment for coring through the existing wall; and for furnishing, placing, and compacting structure backfill.

## **131. Modular Block Retaining Wall, Item SPV.0165.11.**

### **A Description**

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components will be 75 years minimum.

### **B Materials**

#### **B.1 Proprietary Wall Systems**

The supplied wall system must be from the department's approved list of Modular Block Retaining Wall systems (Modular Block Gravity Walls). Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The location of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

The department maintains a list of pre-approved Modular Block Retaining Wall systems. To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid opening date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section in Room 601 of the Hill Farms State Transportation Building in Madison or by calling (608) 266-8494.

#### **B.2 Design Requirements**

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-standard specs necessary to construct the walls. Submit electronically to the engineer and Bureau of Structures for review and acceptance. Submit no later than 60 days from the date of

notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11 inch sheets, and will contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the Modular Block Retaining Wall shall be in compliance with the *AASHTO LRFD Bridge Design Specifications 6<sup>th</sup> Edition 2012*, (AASHTO LRFD) with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current *standard specifications for Highway and Structure Construction* (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer.

Walls shall be designed for a minimum live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing checks is provided by the department and are provided on the wall plans.

The design of the Modular Block Retaining Wall by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. Internal stability shall also be considered at each block level. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The width of the modular block from front face to back face of the wall shall be included in the design computations and shown on the wall shop drawings. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

Facing units shall be designed according to AASHTO LRFD 11.10.2.3.

The minimum embedment of the wall shall be 1 foot 6 inches, or as given on the contract plan. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad. Additional embedment may be detailed by the contractor, but will not be measured for payment.

The leveling pad shall be as wide as the proposed blocks plus 6-inches, with 6-inches of the leveling pad extending beyond the front face of the blocks.

Wall facing units shall be installed on concrete leveling pads or base aggregate leveling pad. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

The concrete leveling pad shall be as wide as the proposed blocks plus six inches, with six inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches. A concrete leveling pad is required for the following scenarios:

- When the wall height measured from the top of the leveling pad to the top of the wall exceeds 5 feet at any point along the entire wall length

A base aggregate leveling pad shall be used when a concrete leveling pad is not required. The base aggregate leveling pad shall be as wide as the blocks plus 12 inches, and the modular blocks will be centered on the leveling pad. The minimum thickness of the leveling pad shall be 12-inches after compaction. The leveling pad shall be made from base aggregate dense 1¼-inch in conformance with standard spec 305.

### **B.3 Wall System Components**

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All certifications related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

#### **B.3.1 Wall Facing**

Wall facing units shall consist of precast modular concrete blocks. All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are cracked, chipped, or have other imperfections according to ASTM C1372, or have excessive efflorescence shall not be used within the wall. A single block type and style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan or chosen by the engineer.

The top course of facing units shall be a solid precast concrete unit designed to be compatible with the remainder of the wall unless a cast-in-place concrete cap is shown on the plans. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material. A formed cast-in-place

concrete cap may also be used to finish the wall. A cap of this type shall be designed to have texture, color, and appearance that complement the remainder of the wall. The vertical dimension of the cap shall not be less than 3½ inches. Expansion joints shall be placed in the cap to correspond with each 24 inch change in vertical wall height and at maximum spacing of 10 feet.

Block dimensions may vary no more than ±1/8 inch from the standard values published by the manufacturer according to ASTM C1372. Blocks must have a minimum depth (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1¾ inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

Cementitious materials and aggregates for modular blocks shall conform to the requirements of ASTM C1372 section 4.1 and 4.2. Modular blocks shall meet the following requirements.

Test	Method	Requirement
Compressive Strength (psi)	ASTM C140	5000 min.
Water Absorption (%)	ASTM C140	6 max.
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262 <sup>[1]</sup>	1.0 max. <sup>[2]</sup> 1.5 max. <sup>[2]</sup>

[1] Test shall be run using a 3% saline solution.

[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

All blocks shall be certified as to strength, absorption, and freeze-thaw requirements unless, due to contract changes after letting, certified blocks are not available when required. At the time of delivery of certified blocks, furnish the engineer a certified test report from a department-approved independent testing laboratory for each lot of modular blocks. The certified test report shall clearly identify the firm conducting the sampling and testing, the type of block, the date sampled, the name of the person who conducted the sampling, the represented lot, the number of blocks in the lot, and the specific test results for each of the stated requirements of this specification. The tests should have been conducted not more than 18 months prior to delivery. A lot shall not exceed 5000 blocks or fraction thereof produced in day. The certified test results shall represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at no expense to the department.

A department-approved independent testing laboratory shall control and conduct all modular block sampling and testing for certification. Prior to sampling, the manufacturer's representative shall identify all pallets of modular blocks contained in each lot. All pallets of blocks within the lot shall be numbered and marked to facilitate random sample selection. The representative of the independent testing laboratory shall identify five pallets of blocks by random numbers and will then select one block from each of these pallets. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing

laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project.

The department may conduct testing of certified or non-certified modular blocks lots delivered to the project. The department will not conduct freeze-thaw testing on blocks less than 45 days old. If a random sample of five blocks of any lot tested by the department fails to meet any of the requirements of this specification (nonconforming), the contractor shall remove from the project site all blocks from the failed lot not installed in the finished work at no cost to the department, unless the engineer allows otherwise. Nonconforming blocks installed in the finished work will be considered approved by the department as stated in standard spec 106.5(2) and any adjustment to the contract price will not exceed the price of the blocks charged by the supplier.

Wall facing units may consist of precast modular concrete blocks produced by a wet cast process. The concrete blocks shall have a minimum strength of 4000 psi at 28 days. The concrete for the blocks shall be air entrained, with an air content of 6% +/- 1.5%. All materials for the concrete mixture for the blocks shall meet the requirements of standard spec 501. Wall facing units produced by a wet cast process need not be certified as to absorption and freeze-thaw requirements.

### **B.3.2 Backfill**

Furnish and place backfill for Modular Block Retaining Walls as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate No. 1 as given in standard spec 501.2.5.4.4. All backfill placed within a zone from the top of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

Backfill placed between retained soil and Type A backfill shall comply with the requirements for Grade 1 Granular Backfill as contained in standard spec 209.2.2. Wall Backfill, Type A, may be used as retained backfill.

### **B.3.3 Miscellaneous**

If plans show sections of cast in place concrete cap or coping, use poured concrete Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast in place cap and coping concrete as specified in standard spec 716, Class II Concrete.

Use a wall leveling pad that consists of poured concrete, Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.



If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

## **C Construction**

### **C.1 Excavation and Backfill**

Excavation and preparation of the foundation for the Modular Block Retaining Wall and the leveling pad shall be according to standard spec 206. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth. Backfilling shall closely follow erection of each course of wall facing units.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back face of modular blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

### **C.2 Compaction**

Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the modular blocks.

### **C.3 Wall Components**

Erect wall facing units and other associated elements according to the wall manufacturer's construction guide and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove

all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers according to the manufacturer's directions.

#### **C.4 Geotechnical Information**

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

#### **D Measurement**

The department will measure Modular Block Retaining Wall by the square foot, acceptably completed, measured as the vertical area within the pay limits the contract plans show. Unless the engineer directs in writing, a change to the limits indicated on the contract plan, wall area constructed above or below these limits will not be measured for payment.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.11	Modular Block Retaining Wall	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings and leveling pad; constructing the retaining system including drainage system; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

Parapets, railings, and other items above the wall cap or coping will be paid for separately. Vehicle barrier and its support will be paid separately.

Any required topsoil, fertilizer, seeding or sodding and mulch will be paid for at the contract unit price of topsoil, fertilizer, seeding or sodding and mulch, respectively.

### **132. Trench Insulation 4-Inch, Item SPV.0165.12.**

#### **A Description**

This special provision describes furnishing and installing trench insulation as shown on the plans and as hereinafter provided.

#### **B Materials**

Furnish extruded closed-cell polystyrene board complying with ASTM C578, Type IV, minimum 25 psi compressive strength, minimum thermal resistance (R-value at 75 deg F) of 5.0 per 1-in. thickness.

### **C Construction**

Install insulation according to manufacturer's instructions for the particular conditions of installation. If printed instructions do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with work.

Provide insulation thickness, width, and burial depth as designated.

Extend insulation full thickness over entire area specified. Where two or more layers of insulation are used, place alternating layers to overlap joints of previous layer.

### **D Measurement**

The department will measure Trench Insulation 4-Inch by the square foot, 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.0165.12	Trench Insulation 4-Inch	SF

Payment is full compensation for furnishing and installing insulation, including (if required) additional excavating, backfilling, and compacting not already part of piping installation work.

## **133. Permeable Pavers, Item SPV.0165.13.**

### **A Description**

This work consists of furnishing and installing Permeable Pavers with base, as shown on the plans, and hereinafter described. Permeable Base Aggregate ASTM-57 and ASTM-2 are covered under separate bid items.

1-year product manufacturer's warranty for Permeable Pavers.

### **B Materials**

#### **B.1 Concrete Unit Paver**

Solid interlocking paving units complying with ASTM C 936 and resistant to freezing and thawing when tested according to ASTM C 67, made from normal-weight aggregates, 80 mm thick, brushed face-mix

Thickness: 80 mm.

Finish: Brushed face-mix

Color: Similar to Unilok's Coffee Creek.

Size and Shape (nominal size)

Type A: 10 x 10 inch square.

Type B: 5 x 10 inch rectangle.

## **B.2 Permeable Setting Bed Aggregate**

Crushed stone or crushed gravel classification per standard spec 301.2.4.2, conforming to ASTM C 33 No 8 and the following gradation requirements:

Sieve Size	Percent Passing
1/2"	100
3/8"	85-100
#4	10-30
#8	0-10
#16	0-5

## **B.3 Permeable Join Aggregate**

Crushed stone or crushed gravel classification per standard spec 301.2.4.2, conforming to ASTM C 33 No 8 and the following gradation requirements:

Sieve Size	Percent Passing
1/2"	100
3/8"	85-100
#4	10-30
#8	0-10
#16	0-5

## **C Construction**

### **C.1 Preparation**

Place setting bed over prepared permeable base and screed to a thickness shown on plans, taking care that moisture content remains constant and density is loose and constant until pavers are set and compacted.

### **C.2 Placement**

Set unit pavers on leveling course, being careful not to disturb leveling base. If pavers have lugs or spacer bars to control spacing, place pavers hand tight against lugs or spacer bars. If pavers do not have lugs or spacer bars, place pavers according to manufacturer's recommendations. Use string lines to keep straight lines. Fill gaps between units that exceed 3/8 inch with pieces cut to fit from full-size pavers.

Tolerances:

- Variation in Plane between Adjacent Units (Lipping): Do not exceed 1/16-inch unit-to-unit offset from flush.
- Variation from Level or Indicated Slope: Do not exceed 1/8 inch in 24 inches and 1/4 inch in 10 feet or a maximum of 1/2 inch (13 mm).

Remove and replace pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.

### **C.3 Compaction**

Compact pavers into leveling course with a low-amplitude plate vibrator capable of a 3500-to 5000-lbf compaction force at 80 to 90 Hz. Use vibrator with neoprene mat on face of plate or other means as needed to prevent cracking and chipping of pavers. Perform at least three passes across paving with vibrator.

Compact pavers when there is sufficient surface to accommodate operation of vibrator, leaving at least 36 inches of uncompacted pavers adjacent to temporary edges.

Before ending each day's work, compact installed concrete pavers except for 36-inch width of uncompacted pavers adjacent to temporary edges (laying faces).

As work progresses to perimeter of installation, compact installed pavers that are adjacent to permanent edges unless they are within 36 inches of laying face.

Before ending each day's work and when rain interrupts work, cover pavers that have not been compacted and leveling course on which pavers have not been placed with non-staining plastic sheets to protect them from rain.

### **C.4 Aggregate Fill**

Place permeable joint aggregate immediately after vibrating pavers into setting bed. Spread and screed aggregate fill level with tops of pavers.

Before ending each day's work, place aggregate fill in installed porous paving except for 42-inch width of unfilled paving adjacent to temporary edges (laying faces).

As work progresses to perimeter of installation, place aggregate fill in installed paving that is adjacent to permanent edges unless it is within 42 inches of laying face.

Before ending each day's work and when rain interrupts work, cover paving that has not been filled with non-staining plastic sheets to protect it from rain.

### **D Measurement**

The department will measure Permeable Paving by the square foot, 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.0165.13	Permeable Pavers	SF

Payment is full compensation for furnishing all materials, hauling, installing and compacting.

### **134. Special Mulching, Item SPV.0180.01.**

#### **A Description**

This special provision describes furnishing, placing, and anchoring a mulch cover, in connection with seeding an on-site wetland mitigation area according to standard spec 627 and as hereinafter provided.

#### **B Materials**

Mulching material consists of straw or hay in an air-dry condition, wood excelsior fiber, wood chips, or other suitable material of a similar nature that the engineer approves, and is certified free of noxious weed seeds and objectionable foreign material.

If using tackifier, the department must prequalify it before use. Select tackifiers from the department's erosion control product acceptability list (PAL). The contractor may obtain a copy of the PAL and the prequalification procedure for products not on the PAL from the department.

#### **C (Vacant)**

#### **D Measurement**

The department will measure Special Mulching acceptably completed by the square yard, the measured quantity equals the number of square yards of surface area that the contractor applied mulch.

Tackifiers or nitrogen used for treating the mulch are incidental to the cost of the 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.0180.01	Special Mulching	SY

Payment is full compensation for providing all materials, including tackifiers or nitrogen; for furnishing all hauling, treating, placing, spreading, and anchoring of the mulch material; and for maintaining the work and repairing all damaged areas.

If the contractor opts to use department-approved erosion control mats instead of separately applying mulch and netting, the department will pay for it at the contract unit price for Special Mulching only.

### **135. Limestone Screenings Path, Item SPV.0195.01.**

#### **A Description**

This work consists of furnishing and installing trail surface aggregate according to standard spec 301 and 305, as shown on the plans, and hereinafter provided. Base Aggregate Dense is covered under a separate bid item.

**B Materials**

Trail surface aggregate per standard spec 301 conforming to crushed stone or crushed gravel classification per standard spec 301.2.4.2.

Conform to the following gradation requirements:

Sieve Size	Percent Passing
1/2"	100%
3/8"	96-100
#4	75-90
#8	55-75
#16	35-50
#200	12-20

**C Construction**

Per standard spec 305 and as hereinafter provided.

**C.1 Placement**

Trail surface aggregate shall be placed to avoid running equipment on the final trail. Be sure the aggregate is not "overworked" which may cause size segregation. Aggregate must be placed in one layer.

**C.2 Compaction**

A minimum 3 ton vibrating roller is to be used to compact the final surface. The initial pass of the roller should be in static mode.

Ensure adequate moisture is present in the Limestone Screenings Path during placement and compaction to prevent segregation and to help achieve compaction. If Trail Surface Aggregate sticks to the drum of the roller, stop and wait for the surface to dry further.

**D Measurement**

The department will measure Limestone Screenings Path by the ton, 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.0195.01	Limestone Screenings Path	TON

Payment is full compensation for furnishing, hauling, installing and compacting.

## **136. Stone Screenings With Binder, Item SPV.0195.02.**

### **A Description**

This work consists of furnishing and installing Stone Screenings with Binder according to standard spec 301 and 305, as shown on the plans, and hereinafter provided. Permeable Base Aggregate ASTM-57 and Permeable Base Aggregate ASTM-2 are covered under separate bid items.

1-year product manufacturer's warranty for permeable stabilizer binder.

### **B Materials**

#### **B.1 Crushed Stone**

Crushed stone conforming to standard spec 301 conforming to crushed stone or crushed gravel classification per standard spec 301.2.4.2.

Crushed Stone Sieve Analysis Percentage of Weight Passing a Square Mesh Sieve AASHTO T11-82 and T2782

1/4" Minus aggregate conforming to the following gradation requirements:

Sieve Size	Percent Passing
3/8"	100
#4	90-100
#8	75-80
#16	55-65
#30	40-50
#50	25-35
#100	15-20
#200	10-15

#### **B.2 Binder**

Non-toxic, colorless, odorless, concentrated organic binder powder that binds decomposed granite or crushed 3/8" or 1/4" minus aggregate.

Product to have 64% pre-consumer recycled content.

Product shall have 25 years' experience at same formulation.

#### **B.3 Excess Material**

Provide owner's authorized rep. with the following excess materials for use in future Stone Screenings with Binder repair: 40 to 50 lb. Bags of the Stone Screenings with Binder blended with proper amount of Binder.

### **C Construction**

Per standard spec 305 and as hereinafter provided.



### **C.1 Preparation**

Make any corrections necessary to base furnished and installed to bring gravel to the elevations shown on the drawing.

Ensure proper drainage is established to prevent standing water on surface or adjacent to Stone Screenings with Binder.

Notify engineer in writing of unsuitable site/base conditions before proceeding with installation.

### **C.2 Blending**

Binder shall be thoroughly pre-mixed with aggregate at the rate of 15-lbs of binder per 1-ton of aggregate. Verify with manufacturer correct binder rate for the project and climate. Drop spreading of binder over pre-placed aggregate or mixing by rototilling is not acceptable.

Binder shall be mechanically pre-mixed per manufacturer's recommendations using an approved mechanical blending unit to adequately blend binder with aggregate (Bucket blending is not an approved blending apparatus).

Always blend binder and aggregate dry.

### **C.3 Placement**

After pre-blending, place Stone Screenings with Binder directly on prepared sub-grade. Level to desired grade and cross section. Depth of pathways shall be 3" for heavy foot traffic and light vehicles. Do not place on filter fabric. Contact Manufacturer for installation on slopes greater than 8%.

### **C.4 Watering**

Water heavily for full-depth moisture penetration of profile. Water activates binder. Apply 25 to 45-gallons of water per 1-ton to achieve saturation. Randomly test for depth using a probing device, which reaches full depth.

Contractor shall wait a minimum of 6 – 72 hours or until such time that the stabilized aggregate is able to accept compaction from a 1 to 5 ton roller without separation, plowing or any other physical compromise of the aggregate.

If surface aggregate dries significantly quicker than subsurface material, lightly mist surface before compaction.

### **C.5 Compaction**

Compact Stone Screenings with Binder to 85% relative compaction by equipment such as; a 2 to 5-ton double drum roller making 3 to 4 passes. Do not begin compaction for 6 hours after placement and up to 72 hours. Do not use a vibratory plate compactor or vibration feature on roller, as vibration separates large aggregate particles. If pumping or pancaking of surface occurs, surface is still too wet to roll.

Take care in compacting surface when adjacent to planting and irrigation systems, use 8" or 10" hand tamp.

Installation of Stone Screenings with Binder more than 3" thick shall be installed in lifts. If 4" thick compacted (2) 2" lifts. If 5" thick compacted (2) 2.5" lifts. If Stone Screenings with Binder is pre-moistened before installation entire 4" or 5" lift may be installed.

Lightly spray surface area following compaction. Do not disturb aggregate surface with spray action.

#### **D Measurement**

The department will measure Stone Screenings With Binder by the ton, 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.0195.02	Stone Screenings With Binder	TON

Payment is full compensation for furnishing, hauling, installing and compacting.

### **137. Permeable Base Aggregate ASTM-57, Item SPV.0195.03; Permeable Base Aggregate ASTM-2, Item SPV.0195.04.**

#### **A Description**

This work consists of furnishing and installing Permeable Base Aggregate according to standard spec 310, as shown on the plans, and hereinafter provided.

#### **B Materials**

Furnish crushed stone or crushed gravel conforming to standard spec 301.2, except for gradation conform to the following:

#### **Permeable Base Aggregate ASTM-57**

Sieve Size	Percent Passing
1-1/2"	100%
1"	95-100
1/2"	25-60
#4	0-10
#8	0-5

**Permeable Base Aggregate ASTM-57**

Sieve Size	Percent Passing
3"	100%
2-1/2"	90-100
2"	35-70
1-1/2"	0-15
3/4"	0-5

**C Construction**

Per standard spec 310 and as hereinafter provided.

**D Measurement**

The department will measure Permeable Base Aggregate ASTM (No.) by the ton, 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.0195.03	Permeable Base Aggregate ASTM-57	TON
SPV.0195.04	Permeable Base Aggregate ASTM-2	TON

Payment is full compensation for furnishing, hauling, installing and compacting.

**138. Sanitary Manholes 5-FT Diameter, Item SPV.0200.01.**

**A Description**

This special provision describes furnishing and installing new sanitary sewer manholes as shown on the plans, and according to the applicable provisions of standard spec 611 and as hereinafter provided.

**B Materials**

Provide sanitary manholes constructed of the indicated diameter precast reinforced concrete rings with eccentric cone sections. Conform to ASTM C478. Provide steps 16-inch on center. Join manhole sections with butyl rubber sealant complying with ASTM C990. Provide precast bases and flexible connectors for all connecting pipes. Provide boot type flexible connectors with stainless steel band seals complying with ASTM C923. When pipe configuration precludes the use of factory fabricated connections, use water stops and hydraulic cement to waterproof the connection.

Submit sanitary manhole shop drawings to engineer. Do not begin fabrication of sanitary manholes until shop drawings have been reviewed by engineer.

### **C Construction**

Excavate as required to install manhole. Level base of excavation to provide a firm foundation for the precast bottom. Following placement and connection to new and existing pipes, construct interior bottom of manholes of concrete fillets poured in place in the field. Make flow lines smooth with uniform curves to promote flow through the manhole. Form benches by continuing the width of the connecting pipes from mid-line to top of pipe, then extending at a 1/2-inch per foot pitch to the manhole wall. Plug all lift holes with mortar from the outside prior to backfilling. Make sanitary manholes watertight, with no visible signs of leakage at the time of final inspection.

### **D Measurement**

The department will measure Sanitary Manholes 5-FT Diameter rounding up to the nearest 0.5 vertical foot of each manhole, acceptably completed.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.01	Sanitary Manholes 5-FT Diameter	VF

Payment is full compensation for furnishing all materials, including manhole sections, flexible connectors, joint material, concrete, and bedding stone; and for furnishing all excavation, dewatering, sewage pumping, backfilling, and compaction.

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**ADDITIONAL SPECIAL PROVISION 1 (ASP 1)  
FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS)  
PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS**

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The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Section 5204(e) – Surface Transportation Workforce Development Training and Education, provides for 100 percent Federal funding if the core program funds are used for training, education, or workforce development purposes, including “pipeline” activities. The core programs includes: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, Highway Bridge Program (HBP), Interstate Maintenance (IM), National Highway System (NHS), and Surface Transportation Program (STP). These workforce development activities cover surface transportation workers, including OJT/SS programs for women and minorities as authorized in 23 U.S.C. §140(b).

*TrANS* is an employment program originally established in 1995 in Southeastern Wisconsin. Currently TrANS has expanded to include TrANS program locations to serve contractors in Southeast (Milwaukee and surrounding counties), Southcentral (Dane County and surrounding counties including Rock County), and most Northeastern Wisconsin counties from locations in Keshena, Rhinelander and surrounding far Northern areas. TrANS attempts to meet contractor’s needs in other geographic locations as possible. It is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities and non-minorities as laborers and apprentices in the highway skilled trades. These candidate preparation and contractor coordination services are provided by community based organizations. For a list of the TrANS Coordinators contact the Disadvantaged Business Enterprise Office at (414) 438-4583 in Milwaukee or (608) 266-6961 in Madison. These services are provided to you at no cost.

***I. BASIC CONCEPTS***

Training reimbursements to employing contractors for new placements, rehires or promotions to apprentice of TrANS Program graduates will be made as follows:

- 1) **On-the-Job Training, Item ASP.1T0G, ASP 1 Graduate.** At the rate of \$5.00 per hour on federal aid projects when TrANS graduates are initially hired, or seasonally rehired, as unskilled laborers or the equivalent.

Eligibility and Duration: To the employing contractor, for up to 2000 hours from the point of initial hire as a TrANS program placement.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 12 (number) TrANS Graduate(s) be utilized on this contract.

- 2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of \$5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).

Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 7 (number) TrANS Apprentice(s) be utilized on this contract.

- 3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.
- 4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.
- 5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

## ***I. RATIONALE AND SPECIAL NOTE***

The \$5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the \$5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

## ***II. IMPLEMENTATION***

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

#### **IV. TRANS TRAINING**

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

#### **V. APPRENTICESHIP TRAINING**

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.



### ADDITIONAL SPECIAL PROVISION 3 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

#### 1. Description

##### General

- a. The disadvantaged business enterprise (DBE) requirements of 49 CFR Part 26 apply to this contract. The department's DBE goal is shown on the cover of the bidding proposal. The contractor can meet the specified contract DBE goal by procuring services or materials from a DBE or by subcontracting work to a DBE. The department calculates the DBE participation as the dollar value of DBE participation included in the bid expressed as a percentage of the total contract bid amount.
- b. Under the contract, the contractor agrees to provide the assistance to participating DBE's in the following areas:
  - i. Produce accurate and complete quotes.
  - ii. Understand highway plans applicable to their work.
  - iii. Understand specifications and contract requirements applicable to their work.
  - iv. Understand contracting reporting requirements.
- c. The department encourages the contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.
- d. For information on the disadvantaged business program, visit the department's Civil Rights and Compliance Section website at:

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

#### 2. Definitions

- a. Interpret these terms, used throughout this additional special provision, as follows:
  - i. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.
  - ii. **DBE:** A disadvantaged business enterprise (DBE) certified as a DBE by the department and included on the department's list of certified DBE's who are determined to be ready, willing and able.
  - iii. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.
  - iv. **Discretionary Goal:** A contractor assigned DBE goal, typically abbreviated as "Disc" on the cover of the Highway Work Proposal, which is enforced as committed.
  - v. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
  - vi. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
  - vii. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

#### 3. DBE Percentage Required at Bid Submission

Indicate the bid percentage (i.e. 0% through 100%) of DBE participation on the completed bidding proposal, including projects with discretionary goals. For electronic submittals, show the percentage in the miscellaneous data folder, Item 3, DBE Percent. For paper submittals, show the percentage on the sheet included after the schedule of items. By submission of the bid, the bidder contractually

commits to DBE participation at or above the bid percentage, or certifies that they have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, and that the bid percentage is reflective of these good faith efforts. If the bidder does not indicate the bid percentage of DBE participation on the completed bidding proposal, the department will consider the bid irregular and may reject the bid.

#### **4. Department's DBE Evaluation Process**

##### **a. Documentation Submittal**

Within 10 business days after the notification of contract award, the contractor is to identify, by name, the DBE firms whose utilization is intended to satisfy this provision, the items of work of the DBE subcontract or supply agreement and the dollar value of those items of work by completing the Commitment to Subcontract to DBE Form [DT1506] and all necessary attachment A forms, as well as, Good Faith Waiver Form [DT1202] and supporting documentation as necessary. If the contractor fails to furnish the required forms within the specified time, the department may cancel the award. Delay in fulfilling this requirement is not a cause for extension of the contract time and shall not be used as a tool to delay execution.

##### **i. Bidder Meets DBE Goal**

If the bidder indicates that the contract DBE goal is met, after award and before execution, the department will evaluate the Commitment to Subcontract to DBE Form DT1506 and attachment A(s) to verify the actual DBE percentage achieved. If the DBE commitment is verified, the contract is eligible for execution with respect to the DBE commitment.

##### **ii. Bidder Does Not Meet DBE Goal**

- (1) If the bidder indicates a bid percentage on the Commitment to Subcontract to DBE Form [DT1506] that does not meet the contract DBE goal, the bidder must submit a Good Faith Waiver Form [DT1202] and supporting documentation. After award and before execution, the department will evaluate the bidder's DBE commitment and consider the bidder's good faith waiver request.
- (2) The department will review the bidder's good faith waiver request and notify the bidder of one of the following:
  - a. If the department grants a good faith waiver, the bid is eligible for contract execution with respect to DBE commitment.
  - b. If the department rejects the good faith waiver request, the department may declare the bid ineligible for execution. The department will provide a written explanation of why the good faith waiver request was rejected. The bidder may appeal the department's rejection as allowed under 7 a. & b.

#### **5. Department's Criteria for Good Faith Effort**

The Code of Federal Regulations {CFR}, 49 CFR Part 26-Appendix A, is the guiding regulation concerning good faith efforts. However, the federal regulations do not define "good faith" but states that bidder must actively and aggressively attempt to meet the goal. The federal regulations are general and do not include every factor or effort that can be considered. As a result, each state must establish its own processes and consider the factors established in its own process when making a determination of good faith.

- a. The department will only grant a good faith waiver if the bidder has made the effort, given the relevant circumstances under the contract that a bidder actively and aggressively seeking to meet the goal would make. The department will evaluate the bidder's good faith effort to determine whether a good faith waiver will be granted. The bidder must demonstrate, on the DT1202 that they

have aggressively solicited DBE participation in an attempt to meet the contract DBE goal and attaining the stated DBE goal is not feasible.

- b. The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.
- c. Prime Contractors should:
  - i. Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use the Civil Rights & Compliance System [CRCS] and related WisDOT-approved DBE outreach tools, including the Bid Express Small Business Network, to foster DBE participation on all applicable contracts.
  - ii. Request quotes by identifying potential items to subcontract and solicit. Prime contractors are strongly encouraged to include in their initial contacts a single page including a detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix A.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, **as required by federal rules**. In some cases, it might be appropriate to use DBE's to do work in a prime contractor's area of specialization.
    - (1) Solicit quotes through all reasonable and available means from certified DBE firms who match 'possible items to subcontract' and send copies to DBESS office, highlighting areas in which you are seeking quotes. Email is acceptable.
    - (2) SBN is the preferred outreach tool. <https://www.bidx.com/wi/main> Other acceptable means include postal mail, email, fax, phone call.
      - a. Primes must ask DBE firms for a response in their solicitations. See *Sample Contractors Solicitation Letter* in Appendix. This letter can be included as an attachment to the SBN sub-quote request.
      - b. Solicit quotes at least 10 calendar days prior to the letting date {ideally two Fridays before the letting} to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking them if they need help in putting together a quote, or helping to arrange for equipment needs, or solve other problems.
    - (3) Second solicitation should take place within 5 days
      - a. An email solicitation is highly recommended for this second solicitation
    - (4) Upon request, provide interested DBE firms with adequate information about plans, specifications and the requirements of the contract by letter, information session, email, phone call and/or referral.
    - (5) When potential exists, advise interested DBE firms on how to obtain bonding, line of credit or insurance as may be requested.
    - (6) Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
      - a. Email to all prospective DBE firms in relevant work areas
      - b. Phone call log to DBE firms who express interest via written response or call.
      - c. Fax/letter confirmation
      - d. Copy of the DBE quotes
      - e. Signed copy of Bid Express SBN Record of Subcontractor Outreach Effort.

- d. Evaluate DBE quotes as documentation is critical if the prime does not utilize the DBE firm's quote for any reason.
- i. Evaluate DBE firm's capability to perform 'possible items to subcontract' using legitimate reasons, including but not limited to, **a discussion with the DBE firm** regarding its capabilities prior to the bid letting. If lack of capacity is your reason for not utilizing the DBE quote, you are required to contact the DBE directly regarding their ability to perform the work indicated in the UCP directory as their work area [NAICS code]; only the work area and/or NAICS code listed in the UCP directory will be counted for DBE credit. Documentation of the conversation is required.
  - ii. In striving to meet a DBE conscious contract goal, prime contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
  - iii. **Special Circumstance:** Evaluation of DBE quotes with tied bid items. "Tied quotes are the condition in which a subcontractor submits quotes including multiple areas of expertise across multiple work areas noting that the items and price are tied. Typically this type of quoting represents a cost saving to the prime but is not clearly stated as a discount; tied quotes are usually presented as 'all or none' quote to the prime." When non-DBE subcontractors submit tied bid items in their quotes to the prime, the DBE firms' quote may seem not competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples.
    - (1) Compare bid items common to both quotes, noting the reasonableness in the price comparison.
    - (2) Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.
- e. After notification of contract award, submit '**Commitment to Subcontract**' form within the time period specified in the contract.
- i. Provide the following information along with department form DT1202:
    - (1) The names, addresses, e-mail addresses, telephone numbers of DBE's contacted. The dates of both initial and follow-up contact. A printed copy of SBN solicitation is acceptable.
    - (2) A description of information provided to the DBE's regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE.
    - (3) Photocopies or electronic copies of all written solicitations to DBE's.
    - (4) Documentation of each quote received from a DBE and, if rejected, the reason for that rejection.
    - (5) Bidder attendance at any pre-solicitation or pre-bid meetings the department held to inform DBE's of participation opportunities available on the project.
- f. The department's DBE Support Services Office is available by phone, email or in writing to request assistance in meeting the DBE goal:

DBE Support Services Office  
6150 Fond du Lac Ave.  
Milwaukee, WI 53218  
Phone: 414-438-4583 / 608-266-6961  
Fax: 414-438-5392  
E-mail: [DOTDBESupportServices@dot.wi.gov](mailto:DOTDBESupportServices@dot.wi.gov)

## **6. Bidder's Appeal Process**

- a. A bidder can appeal the department's decision to deny the bidder's good faith waiver request. The bidder must provide written documentation refuting the specific reasons for rejection as stated in the department's rejection notice. The bidder may meet in person with the department if so requested. Failure to appeal within 7 calendar days after receiving the department's written notice of rejection of a good faith waiver request under constitutes a forfeiture of the bidder's right of appeal. If the bidder does not appeal, the department may declare the bid ineligible for execution.
- b. The department will appoint a representative, who did not participate in the original determination, to assess the bidder's appeal. The department will issue a written decision within 7 calendar days after the bidder presents all written and oral testimony. In that written decision, the department will explain the basis for finding that the bidder did or did not meet the contract DBE goal or make an adequate good faith effort to meet the contract DBE goal. The department's decision is final. If the department finds that the bidder did not meet the contract DBE goal or did not make adequate efforts to meet the DBE goal, the department may declare the bid ineligible for execution.

## **7. Department's Criteria for DBE Participation**

### **Department's DBE List**

- a. The department maintains a DBE list on the department's website  
<http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/ucp-directory.xlsx>
- b. The DBE office is also available to assist at 414-438-4583 or 608-266-6961.

## **8. Counting DBE Participation**

### **Assessing DBE Work**

- a. The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the unified certification program agencies. If a firm becomes DBE certified before entering into a subcontract, the department may consider that DBE usage towards the contract goal. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:
- b. The department counts work performed by the DBE's own resources. The department includes the cost of materials and supplies the DBE obtains for the work. The department also includes the cost of equipment the DBE leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE purchases or leases from the prime contractor or its affiliate, except the department will count non-project specific leases the DBE has in place before the work is advertised.
- c. The department counts fees and commissions the DBE charges for providing a bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the engineer deems reasonable based on experience or prevailing market rates.
- d. If a DBE subcontracts work, the department counts the value of the subcontracted work only if the DBE's subcontractor is also a DBE.
- e. The contractor shall maintain records and may be required to furnish periodic reports documenting its performance under this item.
- f. It is the prime contractor's responsibility to determine the DBE's ability to perform the work with the use of the UCP directory.

**9. Commercially Useful Function**

- a. The department counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.
- b. A DBE is performing a commercially useful function if the following conditions are met:
- c. For contract work, the DBE is responsible for executing a distinct portion of the contract work and it is carrying out its responsibilities by actually performing, managing, and supervising that work.
- d. For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

**10. Trucking**

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website

<http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

**11. Manufacturers and Suppliers**

The department counts material and supplies a DBE provides under the contract. The department will give full credit toward the DBE goal if the DBE is a manufacturer of those materials or supplies. The department will give 60 percent credit toward the DBE goal if the DBE is merely a supplier of those materials or supplies. It is the bidder's responsibility to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

**12. DBE Prime**

If the prime contractor is a DBE, the department will only count the work the contractor performs with its own forces, the work DBE subcontractors perform, and the work DBE suppliers or manufacturers perform.

**13. Joint Venture**

If a DBE performs as a participant in a joint venture, the department will only count that portion of the total dollar value of the contract equal to that portion of the work that the DBE performs with its own forces.

**14. Mentor Protégé**

- a. If a DBE performs as a participant in a mentor protégé agreement, the department will credit the portion of the work performed by the DBE protégé firm
- b. On every other project that the mentor protégé team identifies itself on.
- c. For no more than one half of the total contracted DBE goal on any WisDOT project.

**15. DBE Replacement**

In the event a Prime Contractor needs to replace a DBE firm originally listed on the approved DBE Commitment Form DT1506, the Prime Contractor must comply with the department's DBE Replacement Policy located on the DBE page on the following web site:

<http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/policy-statement.pdf>

**16. Changes to the approved DBE Commitment Form DT1506**

If there are any changes to the approved Commitment to Subcontract to DBE Form DT1506, the prime contractor must submit a revised DBE Commitment Form DT1506 and relevant attachment A(s) to the DBE Programs Office within 5 business days.

**17. Contract Modifications**

When additional opportunity is available by contract modifications, the Prime Contractor shall utilize DBE Subcontractors that were committed to equal work items, in the original contract.

**18. Payment**

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

**APPENDIX A**  
**Sample Contractor Solicitation Letter Page 1**  
*This sample is provided as a guide not a requirement*

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GFW SAMPLE MEMORANDUM

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**TO:** DBE FIRMS  
**FROM:** POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR  
**SUBJECT:** REQUEST FOR DBE QUOTES  
LET DATE & TIME  
**DATE:** MONTH DAY YEAR  
**CC:** DBE OFFICE ENGINEER

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Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation Month- date -year Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at <http://roadwaystandards.dot.wi.gov/hcci/>

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. **Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.** We prefer quotes be sent via SBN but prime's alternative's are acceptable. Our office hours are include hours and days. Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at <http://roadwaystandards.dot.wi.gov/hcci/>

All questions should be directed to:

Project Manager, John Doe,  
Phone: (000) 123-4567  
Email: [Joe@joetheplumber.com](mailto:Joe@joetheplumber.com)  
Fax: (000) 123- 4657



## Sample Contractor Solicitation Letter Page 2

*This sample is provided as a guide not a requirement*

### REQUEST FOR QUOTATION

Prime's Name: \_\_\_\_\_

Letting Date: \_\_\_\_\_

Project ID: \_\_\_\_\_

**Please check all that apply**

- ☐ Yes, we will be quoting on the projects and items listed below
- ☐ No, we are not interested in quoting on the letting or its items referenced below
- ☐ Please take our name off your monthly DBE contact list
- ☐ We have questions about quoting this letting. Please have some one contact me at this number

**Prime Contractor 's Contact Person**

Phone: _____
Fax: _____
Email: _____
_____

**DBE Contractor Contact Person**

Phone _____
Fax _____
Email _____
_____

**Please circle the jobs and items you will be quoting below**

Proposal No.	1	2	3	4	5	6	7
County							

**WORK DESCRIPTION:**

Clear and Grub	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternative's are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

## **APPENDIX B BEST PRACTICES FOR PRIME CONTRACTOR & DBE SUBCONTRACTOR GOOD FAITH EFFORT**

*This list is not a set of requirements; it is a list of potential strategies*

### **Primes**

- Prime contractor open houses inviting DBE firms to see the bid “war room” or providing technical assistance
- Participate in speed networking and mosaic exercises as arranged by DBE office
- Host information sessions not directly associated with a bid letting;
- Participate in a formal mentor protégé or joint venture with a DBE firm
- Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings
- Facilitate a small group DBE ‘training session’ Clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications and communication methods
- Encourage subcontractors to solicit and highlight DBE participation in their quotes to you
- Quality of communication, not quantity creates the best results. Contractors should do as thorough a job as possible in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

### **DBE**

- DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Review the status of contracts on the HCCI website reviewing the ‘apparent low bidder’ list, and bid tabs at a minimum.
- Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation-related projects of similar size and scope, firm expertise and staffing.
- Participate in DBE office assessment programs
- Participate on advisory and mega-project committees
- Sign up to receive the DBE Contracting Update
- Consider membership in relevant industry or contractor organizations
- Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

## APPENDIX C

### Types of Efforts considered in determining GFE

*This list represents concepts being assessed; analysis requires additional steps*

1. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by WisDOT to inform DBEs of contracting and subcontracting opportunities;
2. Whether the contractor provided written notice to a reasonable number of specific DBEs that their interest in the contract was being solicited, in sufficient time to allow the DBEs to participate effectively;
3. Whether the contractor followed up initial solicitations of interest by contacting DBEs to determine if the DBEs were interested; returned the phone calls of interested DBE firms.
4. Whether the contractor selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goal;
5. Whether the contractor provided interested DBEs with adequate information about the plans, specifications and requirements of the contract;
6. Whether the contractor negotiated in good faith with interested DBEs, not rejected DBEs as unqualified without sound reasons based on a thorough investigation of their capabilities;
7. Whether the contractor made efforts to assist interested DBEs in being more competitive.
8. Whether the contractor effectively used the services of available minority community organizations: minority contractors groups, local, state, and Federal minority business assistance offices, and other organizations that provide assistance to small businesses and DBE firms.
9. Whether Prime used CRCS to identify DBE who specialize in relevant work areas.
10. Whether the contractor used available resources including contacting the DBE office, using WisDOT's website
11. Whether the contractor returned calls of firms expressing interest in a timely manner.

**APPENDIX D**  
**Good Faith Effort Evaluation Guidance**  
*Excerpt from Appendix A of 49 CFR Part 26*

**APPENDIX A TO PART 26 -- GUIDANCE CONCERNING GOOD FAITH EFFORTS**

- I. When, as a recipient, you establish a contract goal on a DOT assisted contract, a bidder must, in order to be responsible and/or responsive, make good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.
- II. In any situation in which you have established a contract goal, part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, it is up to you to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made. The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call: meeting quantitative formulas is not required.
- III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.
- IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.
  - A. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
  - B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
  - C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

- D.
    - (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.
    - (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
  - E. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non solicitation of bids in the contractor's efforts to meet the project goal.
  - F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
  - G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
  - H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- V. In determining whether a bidder has made good faith efforts, you may take into account the performance of other bidders in meeting the contract. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts.

## Appendix E

### Small Business Network [SBN] Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
  - a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for completion at a later time.
2. Create sub-quotes for the subcontracting community:
  - a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
  - b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
  - c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE-preferred request
  - d. Add attachments to sub-quotes
3. View sub-quote requests & responses:
  - a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
  - b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing
4. View Record of Subcontractor Outreach Effort:
  - a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
  - b. Easily locate pre-qualified and certified small and disadvantaged businesses
  - c. Advertise to small and disadvantaged businesses more efficiently and cost effectively
  - d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency)

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs.

1. View and reply to sub-quote requests from primes:
  - a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests, or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
  - a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
  - b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes
  - c. Add attachments to a sub-quote
3. Create and send unsolicited sub-quotes to specific contractors:
  - a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
  - a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on an per-item basis as well.
  - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder
  - c. Add attachments to a sub-quote
  - d. Add unsolicited work items to sub-quotes that you are responding to
5. Easy Access to Valuable Information
  - a. Receive a confirmation that your sub-quote was opened by a prime
  - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
  - c. View important notices and publications from DOT targeted to small and disadvantaged businesses
6. Accessing Small Business Network for WisDOT contracting opportunities
  - a. If you are a contractor not yet subscribing to the Bid Express service, go to **www.bidx.com** and select “Order Bid Express.” The Small Business Network is a part of the Bid Express Basic Service.
  - b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-4588

## **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 PROVISIONS 5****Fuel Cost Adjustment****A Description**

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

**B Categories of Work Items**

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

### **C Fuel Index**

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is \$1.50 per gallon.

### **D Computing the Fuel Cost Adjustment**

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

- (1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.
- (2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.
- (3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.
- (4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left( \frac{CFI}{BFI} - 1 \right) \times Q \times BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

### **E Payment**

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.

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

*Make the following revisions to the standard specifications:*

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**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 <sup>[1]</sup>	+1.3/-1.0	+1.0/-0.7
VMA in percent <sup>[2]</sup>	- 0.5	- 0.2

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

<sup>[2]</sup> 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<sup>[1]</sup>**

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

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

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

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

<sup>[4]</sup> Minimum reduced by 1.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

<sup>[5]</sup> 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<sup>[1]</sup>**

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

<sup>[1]</sup> SMA pavements are not eligible for density incentive.

<sup>[2]</sup> 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:

### Throughout the contract:

Update all references to the construction rental rate "Blue Book" to reference "EquipmentWatch" rates.

#### 105.13.4 Content of Claim

- (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.

#### 109.4.5.5.1 General

- (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)

- (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

- (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

- (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.

## 109.2 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.

### 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.

### 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.



**ADDITIONAL SPECIAL PROVISION 7**

- A. Reporting 1<sup>st</sup> 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 Tess Mulrooney at 608-267-4489 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 send several sample electronic files to Tess two months before a payroll needs to be submitted. 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>

## REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

### ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

### I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

### II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

#### **10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

#### 1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) 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:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or



will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## **2. Withholding**

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## **3. Payrolls and basic records**

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.



(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### **4. Apprentices and trainees**

##### **a. Apprentices (programs of the USDOL).**

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### **b. Trainees (programs of the USDOL).**

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

## VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

## VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

## **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

## **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

### **1. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant 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 first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.



i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant 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 or agency may terminate this transaction for cause or default.

\* \* \* \* \*

## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) 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;

(3) 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 offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

## **2. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. 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 participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant 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 or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

\* \* \* \* \*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

\* \* \* \* \*

**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

## **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).

SEPTEMBER 2002

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE  
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

**Goals for Minority Participation for Each Trade:**

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

**Goals for female participation for each trade: 6.9%**

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director  
Office of Federal Contract Compliance Programs  
Ruess Federal Plaza  
310 W. Wisconsin Ave., Suite 1115  
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

**APRIL 2013**

**ADDITIONAL FEDERAL-AID PROVISIONS**

**NOTICE TO ALL BIDDERS**

To report bid rigging activities call:

**1-800-424-9071**

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

**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>

## Cargo Preference Act Requirement

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) *Agreement Clauses*. “Use of United States-flag vessels:”

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.”

(b) *Contractor and Subcontractor Clauses*. “Use of United States-flag vessels: The contractor agrees—”

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**Effective with September 2004 Letting**

**WISCONSIN DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS AND TRANSPORTATION FACILITIES**

**SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS**

- I. Wage Rates, Hours of labor and payment of Wages
- II. Payroll Requirements
- III. Postings at the Site of the Work
- IV. Affidavits
- V. Wage Rate Redistribution
- VI. Additional Classifications

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

The schedule of "Minimum Wage Rates" attached hereto and made a part hereof furnishes the prevailing wage rates that have been determined pursuant to Section 103.50 of the Wisconsin Statutes. These wage rates are the minimum required to be paid to the various 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 103.50, Stats. If necessary to employ laborers, workers, mechanics or truck drivers whose classification is not listed on the schedule, they shall be paid at rates conformable to those listed for similar classifications. Apprentices shall be paid at rates not less than those prescribed in their state indenture contracts.

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 103.50 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 rate of pay. All work on Saturday, Sunday and the following holidays is to be paid at time and a half: (1) January 1, (2) the last Monday in May, (3) July 4, (4) the first Monday in September, (5) the fourth Thursday in November, (6) December 25, (7) the day before if January 1, July 4 or December 25 falls on a Saturday and (8) 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, eculid 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.

For those projects subject to the requirements of the Davis-Bacon Act, the Secretary of Labor will also have determined "Minimum Wage Rates" for work to be performed under the contract. These rates are, for all or most of the labor, worker, mechanic or truck driver classifications, identical to those established under Section 103.50 of the Wisconsin Statutes. In the event the rates are not identical, the higher of the two rates will govern.

## **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 103.50 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 place at the site of work:

- a. "NOTICE TO EMPLOYEES," which provides information required to be posted by the provisions of Section 103.50 of the Wisconsin Statutes.
- b. A copy of the State of Wisconsin Minimum Wages Rates. (Four pages.)
- c. A copy of the contractor's Equal Employment Opportunity Policy.
- d. On any project involving federal aid, in addition to the furnished postings, the contractor shall post a copy of the "Davis-Bacon Act, Minimum Wage Rates". (Three pages.)

## **IV. WAGE RATE REDISTRIBUTION**

The amount specified as the hourly basic rate of pay and the amount(s) specified as the fringe benefit contribution(s), for all classes of laborers, workers, mechanics or truck drivers may be redistributed, when necessary, to conform to those specified in any applicable collective bargaining agreement, provided that both parties to such agreement

request and receive the approval for any such redistribution from both the Department of Transportation and the Department of Workforce Development prior to the implementation of such redistribution.

## **V. ADDITIONAL CLASSIFICATIONS**

Any unlisted laborer or mechanic classification that is needed to perform work on this project, and is not included within the scope of any of the classifications listed in the application prevailing wage rate determination, may be added after award only if all of the following criteria have been met:

1. The affected employer(s) must make a written request to WisDOT Central Office to utilize the unlisted classification on this project.
2. The request must indicate the scope of the work to be performed by the unlisted classification and must indicate the proposed wage/fringe benefit package that the unlisted classification is to receive.
3. The work to be performed by the unlisted classification must not be performed by a classification that is included in the applicable prevailing wage rate determination.
4. The unlisted classification must be commonly employed in the area where the project is located.
5. The proposed wage/fringe benefit package must bear a reasonable relationship to those set forth in the applicable prevailing wage rate determination.
6. The request should be made prior to the actual performance of the work by the unlisted classification.
7. DWD must approve the use of the unlisted classification and the proposed wage/fringe benefit package. USDOL also must approve the use of the unlisted classification and the proposed wage/fringe benefit package on federal aid projects.
8. WisDOT and DWD may amend the proposed wage/fringe benefit package, as deemed necessary, and may set forth specific employment ratios and scope of work requirements in the approval document.

The approved wage/fringe benefit package shall be paid to all laborers, workers, mechanics or truck drivers performing work within the scope of that performed by the unlisted classification, from the first day on which such work is performed. In the event that work is performed by the unlisted classification prior to approval, the wage/fringe benefit package to be paid for such work must be in conformance with the wage/fringe

benefit package approved for such work. Under this arrangement a retroactive adjustment in wages and/or fringe benefits may be required to be made to the affected laborers, workers, mechanics or truck drivers by the affected employer(s).

**ANNUAL PREVAILING WAGE RATE DETERMINATION  
FOR ALL STATE HIGHWAY PROJECTS  
LA CROSSE COUNTY**

Compiled by the State of Wisconsin - Department of Workforce Development  
for the Department of Transportation  
Pursuant to s. 103.50, Stats.  
Issued on May 1, 2016

**CLASSIFICATION:** Contractors are required to call the Department of Workforce Development if there are any questions regarding the proper trade or classification to be used for any worker on a public works project.

**OVERTIME:** Time and one-half must be paid for all hours worked over 10 hours per day and 40 hours per calendar week and for all hours worked on Saturday, Sunday and the following six (6) holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25; the day before if January 1, July 4 or December 25 falls on a Saturday; the day following if January 1, July 4 or December 25 falls on a Sunday.

**FUTURE INCREASE:** If indicated for a specific trade or occupation, the full amount of such increase MUST be added to the "TOTAL" indicated for such trade or occupation on the date(s) such increase(s) becomes effective.

**PREMIUM PAY:** If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.

**SUBJOURNEY:** Wage rates may be available for some of the classifications indicated below. Any employer that desires to use any subjourney classification on a project MUST request the applicable wage rate from the Department of Workforce Development PRIOR to the date such classification is used on such project. Form ERD-10880 is available for this purpose and can be obtained by writing to the Department of Workforce Development, Equal Rights Division, P.O. Box 8928, Madison, WI 53708.

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
Bricklayer, Blocklayer or Stonemason	31.55	18.52	50.07
Carpenter	33.02	17.12	50.14
Future Increase(s): Add \$1.42/hr on 6/1/2016. Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Cement Finisher	34.64	19.64	54.28
Future Increase(s): Add \$1.75 on 6/1/16. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.			
Electrician	31.21	18.96	50.17
Future Increase(s): Add \$1.15 on 6/1/16 Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Fence Erector	35.62	0.00	35.62
Ironworker	32.50	20.58	53.08
Line Constructor (Electrical)	38.59	27.20	65.79
Painter	29.87	18.79	48.66
Pavement Marking Operator	30.00	18.27	48.27
Piledriver	30.11	21.09	51.20
Roofer or Waterproofer	30.40	2.23	32.63
Teledata Technician or Installer	17.50	5.57	23.07
Tuckpointer, Caulker or Cleaner	31.12	18.69	49.81
Underwater Diver (Except on Great Lakes)	36.74	16.00	52.74

<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
	<b>\$</b>	<b>\$</b>	<b>\$</b>
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	36.73	15.92	52.65
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	32.65	16.12	48.77
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	28.57	13.71	42.28
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.53	13.09	39.62
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72

**TRUCK DRIVERS**

Single Axle or Two Axle	36.72	21.15	57.87
Three or More Axle	25.78	18.96	44.74
Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Articulated, Euclid, Dumptor, Off Road Material Hauler	30.82	21.85	52.67
Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: <a href="http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx">http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx</a> .			
Pavement Marking Vehicle	23.82	17.72	41.54
Shadow or Pilot Vehicle	25.28	18.31	43.59
Truck Mechanic	25.28	18.31	43.59

**LABORERS**

General Laborer	30.67	15.65	46.32
Future Increase(s): Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017			
Premium Pay: Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Asbestos Abatement Worker	24.92	15.12	40.04
Landscaper	30.67	15.65	46.32
Future Increase(s): Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Flagperson or Traffic Control Person	27.30	15.65	42.95
Future Increase(s): Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.			

<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
	<b>\$</b>	<b>\$</b>	<b>\$</b>
Fiber Optic Laborer (Outside, Other Than Concrete Encased)	15.50	0.79	16.29
Railroad Track Laborer	17.50	2.18	19.68

### HEAVY EQUIPMENT OPERATORS

Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type).	38.27	21.85	60.12
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Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.

Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium.

See DOT'S website for details about the applicability of this night work premium at:

<http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx>.

Backhoe (Track Type) Having a Mfr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs., & Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver.	37.77	21.85	59.62
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Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.

Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium.

See DOT'S website for details about the applicability of this night work premium at:

<http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx>.

Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type);	37.27	21.85	59.12
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<b><u>TRADE OR OCCUPATION</u></b>	<b><u>HOURLY BASIC RATE OF PAY</u></b>	<b><u>HOURLY FRINGE BENEFITS</u></b>	<b><u>TOTAL</u></b>
	<b><u>\$</u></b>	<b><u>\$</u></b>	<b><u>\$</u></b>
Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A- Frames. Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: <a href="http://wisconsin.dot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx">http://wisconsin.dot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx</a> .			
Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: <a href="http://wisconsin.dot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx">http://wisconsin.dot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx</a> .	37.01	21.85	58.86
Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: <a href="http://wisconsin.dot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx">http://wisconsin.dot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx</a> .	37.27	21.85	59.12
Fiber Optic Cable Equipment.	18.00	0.00	18.00

SUPERSEDES DECISION WI20120010  
U. S. DEPARTMENT OF LABOR  
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI160010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: October 7, 2016

LABORERS CLASSIFICATION:	Basic Hourly Rates	Fringe Benefits		Basic Hourly Rates	Fringe Benefits
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, Utility Man); Batch Truck Dumper; or Cement Handler; Bituminous Worker; (Dumper, Ironer, Smoother, Tamper); Concrete Handler .....	\$30.67 .....	16.55			
Group 2: Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); .....	30.77 .....	16.55			
Group 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off man .....	30.82 .....	16.55			
Group 4: Line and Grade Specialist .....	31.02 .....	16.55			
Group 5: Blaster and Powderman .....	30.87 .....	16.55			
Group 6: Flagperson; Traffic Control .....	27.30 .....	16.55			
			<u>Truck Drivers:</u>		
			1 & 2 Axles .....	26.63 .....	19.85
			Three or More Axles; Euclids, Dumptr & Articulated, Truck Mechanic .....	26.78 .....	19.85

CLASSES OF LABORER AND MECHANICS

Bricklayer .....	35.94 .....	17.05
Carpenter .....	30.48 .....	15.80
Millwright .....	32.11 .....	15.80
Piledriverman .....	30.98 .....	15.80
Ironworker .....	32.85 .....	21.84
Cement Mason/Concrete Finisher .....	35.61 .....	19.40
Electrician .....	See Page 3	
Line Construction		
Lineman .....	42.14 .....	32% + 5.00
Heavy Equipment Operator .....	40.03 .....	32% + 5.00
Equipment Operator .....	33.71 .....	32% + 5.00
Heavy Groundman Driver .....	26.78 .....	14.11
Light Groundman Driver .....	24.86 .....	13.45
Groundsman .....	23.18 .....	32% + 5.00
Painters .....	22.03 .....	12.45
Well Drilling:		
Well Driller .....	16.52 .....	3.70

Notes: Welders receive rate prescribed for craft performing operation to which welding is incidental. 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 (29 CFR, 5.5(a)(1)(ii)). Includes Modification #0 dated January 8, 2016; Modification #1 dated January 29, 2016; Modification #2 dated February 26, 2016; Modification #3 dated March 11, 2016; Modification #4 dated April 8, 2016; Modification #5 dated June 17, 2016; Modification #6 dated July 1, 2016; Modification #7 dated July 22, 2016; Modification #8 dated July 29, 2016; Modification #9 dated August 19, 2016; Modification #10 dated August 26, 2016; Modification #11 dated September 2, 2016; Modification #12 dated September 30, 2016; Modification #13 dated October 7, 2016.



SUPERSEDES DECISION WI20120010  
U. S. DEPARTMENT OF LABOR  
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI160010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: October 7, 2016

<u>POWER EQUIPMENT OPERATORS CLASSIFICATION:</u>	<u>Basic Hourly Rates</u>	<u>Fringe Benefits</u>	<u>POWER EQUIPMENT OPERATORS CLASSIFICATION: (Continued)</u>	<u>Basic Hourly Rates</u>	<u>Fringe Benefits</u>
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 .....	\$39.27	\$21.80	(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 and A-frames; post driver; material hoist operator. ....	\$38.27	\$21.80
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 jib lengths measuring 175 feet or less, and backhoes (excavators) having a manufacturer's rated capacity of 3 cu. yds. and over, caisson rigs, pile driver, dredge operator, dredge engineer. ....	\$38.77	\$21.80	Group 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self-propelled; tractor (mounted or towed compactors and light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint saw (multiple blade) belting machine; burlap machine; texturing machine; tractor, endloader (rubber tired) - light; jeep digger; fork lift; mulcher; launch operator; fireman; environmental burner. ....	\$38.01	\$21.80
Group 3: Mechanic or welder - heavy duty equipment, cranes with a lifting capacity of 25 tons or less, concrete breaker (manual or remote); vibrator/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pavement spreader - heavy duty (rubber tired); concrete spreader and distributor, automatic subgrader (concrete); concrete grinder and planing machine; concrete slipform curb and gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi and over); bridge paver; concrete conveyor system; concrete pump; stabilizing mixer (self propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter and grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer and scarifier; backhoes (excavators) having a manufacturers rated capacity of under 3 cu. yds.; grader or motor patrol; tractor			Group 5: Air compressor; power pack; vibratory 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 helper. ....	\$37.72	\$21.80
			Group 6: Off – road material hauler with or without ejector.....	\$31.82	\$21.80
			Premium Pay: EPA Level "A" protection - \$3.00 per hour EPA Level "B" protection - \$2.00 per hour EPA Level "C" protection - \$1.00 per hours		

SUPERSEDES DECISION WI20120010  
U. S. DEPARTMENT OF LABOR  
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI160010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: October 7, 2016

LABORERS CLASSIFICATION:

Rates

Benefits

			Area 4 -	BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausauke 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.
Electricians				
Area 1 .....	\$30.68	17.28		
Area 2:				
Electricians.....	32.00	19.28	Area 5 -	ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Area North of the town of Wausauke), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Area North of the townships of Aniwa and Hutchins), VILAS AND WOOD COUNTIES
Area 3:				
Electrical contracts under \$130,000 .....	28.96	18.26		
Electrical contracts over \$130,000 .....	31.16	18.34		
Area 4: .....	30.50	29.50% + 9.57	Area 6 -	KENOSHA COUNTY
Area 5 .....	28.96	24.85% + 9.70		
Area 6 .....	37.02	29%+9.77	Area 8 -	DODGE, (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington township), ROCK and WALWORTH COUNTIES
Area 8				
Electricians.....	32.45	26.10% + 10.56	Area 9 -	COLUMBIA, DANE, DODGE, (area west of Hwy. 26, except Chester & 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
Area 9:				
Electricians.....	36.50	20.39	Area 10 -	CALUMET (Township of New Holstein), DODGE (East of Hwy. 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES
Area 10 .....	29.64	20.54	Area 11 -	DOUGLAS COUNTY
Area 11 .....	34.92	25.05	Area 12 -	RACINE (except Burlington township) COUNTY
Area 12 .....	34.98	19.89	Area 13 -	MILWAUKEE, OZAUKEE, WASHINGTON and WAUKESHA COUNTIES
Area 13 .....	36.01	24.00	Area 14 -	Statewide.
Teledata System Installer			Area 15 -	DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES.
Area 14				
Installer/Technician .....	24.35	13.15		
Sound & Communications				
Area 15				
Installer .....	16.47	14.84		
Technician .....	26.00	17.70		
Area 1 -	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 & Springfield), OUTAGAMIE, WAUPACA, WAUSHARA and WINNEBAGO COUNTIES.			
Area 2 -	ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Mayville, Colby, Unity, Sherman, Fremont, Lynn and 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			
Area 3 -	FLORENCE (townships of Aurora, Commonwealth, Fern, Florence and Homestead), MARINETTE (Niagara township)			

**FEBRUARY 1999**

**NOTICE TO BIDDERS  
WAGE RATE DECISION**

The wage rate decision of the Secretary of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Secretary 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. The higher of state or federal rate will apply.



## SCHEDULE OF ITEMS

REVISED:

CONTRACT:  
20161213002PROJECT(S):  
1071-06-82  
1071-06-83  
1071-06-89  
7190-03-72FEDERAL ID(S):  
WISC 2016463  
WISC 2016464  
N/A  
WISC 2016471

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

## SECTION 0001 Contract Items

0010	201.0105 Clearing	84.000 STA	.	.	.	.
0020	201.0120 Clearing	8.000 ID	.	.	.	.
0030	201.0205 Grubbing	84.000 STA	.	.	.	.
0040	201.0220 Grubbing	8.000 ID	.	.	.	.
0050	203.0100 Removing Small Pipe Culverts	26.000 EACH	.	.	.	.
0060	203.0200 Removing Old Structure (station) 01. 122+00 RN	LUMP	LUMP	.	.	.
0070	203.0200 Removing Old Structure (station) 02. 237+66.50 NB	LUMP	LUMP	.	.	.
0080	203.0210.S Abatement of Asbestos Containing Material (structure) 01. B-32-67	LUMP	LUMP	.	.	.
0090	204.0100 Removing Pavement	86,338.000 SY	.	.	.	.

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N/A  
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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	204.0110 Removing Asphaltic Surface	7,892.000 SY	.		.	
0110	204.0115 Removing Asphaltic Surface Butt Joints	350.000 SY	.		.	
0120	204.0150 Removing Curb & Gutter	13,261.000 LF	.		.	
0130	204.0155 Removing Concrete Sidewalk	1,252.000 SY	.		.	
0140	204.0165 Removing Guardrail	6,464.000 LF	.		.	
0150	204.0170 Removing Fence	3,822.000 LF	.		.	
0160	204.0175 Removing Concrete Slope Paving	285.000 SY	.		.	
0170	204.0180 Removing Delineators and Markers	181.000 EACH	.		.	
0180	204.0190 Removing Surface Drains	8.000 EACH	.		.	
0190	204.0195 Removing Concrete Bases	31.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0200	204.0210 Removing Manholes	15.000 EACH	.		.	
0210	204.0220 Removing Inlets	56.000 EACH	.		.	
0220	204.0235 Removing Buildings (parcel) 01. Parcel 29	LUMP	LUMP		.	
0230	204.0235 Removing Buildings (parcel) 02. Parcel 33	LUMP	LUMP		.	
0240	204.0235 Removing Buildings (parcel) 03. Parcel 34	LUMP	LUMP		.	
0250	204.0245 Removing Storm Sewer (size) 01. 12-Inch	839.000 LF	.		.	
0260	204.0245 Removing Storm Sewer (size) 02. 18-Inch	659.000 LF	.		.	
0270	204.0245 Removing Storm Sewer (size) 03. 24-Inch	1,379.000 LF	.		.	
0280	204.0245 Removing Storm Sewer (size) 04. 30-Inch	120.000 LF	.		.	
0290	204.0245 Removing Storm Sewer (size) 05. 36-Inch	561.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0300	204.0270 Abandoning Culvert Pipes	7.000 EACH	.		.	
0310	204.9060.S Removing (item description) 01. Business Sign	2.000 EACH	.		.	
0320	204.9060.S Removing (item description) 01. Flexible Tubular Marker Post and Bases	61.000 EACH	.		.	
0330	205.0100 Excavation Common	234,964.000 CY	.		.	
0340	206.1000 Excavation for Structures Bridges (structure) 01. B-32-67	LUMP	LUMP		.	
0350	208.0100 Borrow	10,926.000 CY	.		.	
0360	208.1100 Select Borrow	11,022.000 CY	.		.	
0370	209.0200.S Backfill Controlled Low Strength	365.000 CY	.		.	
0380	210.1500 Backfill Structure Type A	190.000 TON	.		.	



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1071-06-89

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0390	213.0100 Finishing Roadway (project) 01. 1071-06-83	1.000 EACH	.		.	
0400	213.0100 Finishing Roadway (project) 02. 7190-03-72	1.000 EACH	.		.	
0410	213.0100 Finishing Roadway (project) 03. 1071-06-82	1.000 EACH	.		.	
0420	305.0110 Base Aggregate Dense 3/4-Inch	2,880.000 TON	.		.	
0430	305.0120 Base Aggregate Dense 1 1/4-Inch	81,027.000 TON	.		.	
0440	312.0110 Select Crushed Material	300.000 TON	.		.	
0450	405.0100 Coloring Concrete WisDOT Red	264.600 CY	.		.	
0460	415.0090 Concrete Pavement 9-Inch	84,236.000 SY	.		.	
0470	415.0210 Concrete Pavement Gaps	13.000 EACH	.		.	
0480	415.0410 Concrete Pavement Approach Slab	155.000 SY	.		.	

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1071-06-89

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0490	415.1090 Concrete Pavement HES 9-Inch	1,385.000 SY	.		.	
0500	415.6000.S Rout and Seal	6,352.000 LF	.		.	
0510	416.0160 Concrete Driveway 6-Inch	800.000 SY	.		.	
0520	416.0610 Drilled Tie Bars	678.000 EACH	.		.	
0530	416.0620 Drilled Dowel Bars	310.000 EACH	.		.	
0540	440.4410 Incentive IRI Ride	15,200.000 DOL	1.00000		15200.00	
0550	460.2000 Incentive Density HMA Pavement	1,370.000 DOL	1.00000		1370.00	
0560	460.5224 HMA Pavement 4 LT 58-28 S	2,102.000 TON	.		.	
0570	460.6224 HMA Pavement 4 MT 58-28 S	45.000 TON	.		.	
0580	465.0105 Asphaltic Surface	2,094.000 TON	.		.	

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N/A

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0590	465.0125 Asphaltic Surface Temporary	6,857.000 TON	.		.	
0600	465.0310 Asphaltic Curb	75.000 LF	.		.	
0610	465.0315 Asphaltic Flumes	104.000 SY	.		.	
0620	502.0100 Concrete Masonry Bridges	620.000 CY	.		.	
0630	502.3100 Expansion Device (structure) 01. B-32-67	LUMP	LUMP		.	
0640	502.3210 Pigmented Surface Sealer	415.000 SY	.		.	
0650	502.4205 Adhesive Anchors No. 5 Bar	378.000 EACH	.		.	
0660	504.0900 Concrete Masonry Endwalls	3.000 CY	.		.	
0670	505.0600 Bar Steel Reinforcement HS Coated Structures	103,620.000 LB	.		.	
0680	509.1500 Concrete Surface Repair	20.000 SF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0690	509.5100.S Polymer Overlay	3,760.000 SY	.		.	
0700	509.9020.S Epoxy Crack Sealing	100.000 LF	.		.	
0710	511.1100 Temporary Shoring	12,485.000 SF	.		.	
0720	511.1200 Temporary Shoring (structure) 01. 7190-03.72	200.000 SF	.		.	
0730	513.4091 Railing Tubular Screening (structure) 01. B-32-67	425.000 LF	.		.	
0740	516.0500 Rubberized Membrane Waterproofing	26.000 SY	.		.	
0750	517.0900.S Preparation and Coating of Top Flanges (structure) 01. B-32-67	LUMP	LUMP		.	
0760	517.1010.S Concrete Staining (structure) 01. B-32-67	2,680.000 SF	.		.	
0770	517.1015.S Concrete Staining Multi-Color (structure) 01. B-32-67	2,515.000 SF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0780	517.1050.S Architectural Surface Treatment (structure) 01. B-32-67	2,515.000 SF	.		.	
0790	517.3000.S Structure Overcoating Cleaning and Priming (structure) 01. B-32-67	LUMP	LUMP		.	
0800	517.4000.S Containment and Collection of Waste Materials (structure) 01. B-32-67	LUMP	LUMP		.	
0810	520.2012 Culvert Pipe Temporary 12-Inch	515.000 LF	.		.	
0820	520.2015 Culvert Pipe Temporary 15-Inch	474.000 LF	.		.	
0830	520.2018 Culvert Pipe Temporary 18-Inch	624.000 LF	.		.	
0840	520.2024 Culvert Pipe Temporary 24-Inch	100.000 LF	.		.	
0850	520.2036 Culvert Pipe Temporary 36-Inch	22.000 LF	.		.	
0860	520.8000 Concrete Collars for Pipe	10.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0870	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH 1.000	.		.	
0880	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH 7.000	.		.	
0890	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH 15.000	.		.	
0900	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH 11.000	.		.	
0910	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH 3.000	.		.	
0920	522.1054 Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH 2.000	.		.	
0930	601.0105 Concrete Curb Type A	LF 77.000	.		.	
0940	601.0342 Concrete Curb & Gutter Integral 18-Inch	LF 202.000	.		.	
0950	601.0409 Concrete Curb & Gutter 30-Inch Type A	LF 22,929.000	.		.	

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N/A

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0960	601.0411 Concrete Curb & Gutter 30-Inch Type D	3,229.000 LF	.		.	
0970	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	503.000 LF	.		.	
0980	601.0590 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	41.000 LF	.		.	
0990	602.0405 Concrete Sidewalk 4-Inch	47,350.000 SF	.		.	
1000	602.0410 Concrete Sidewalk 5-Inch	52,470.000 SF	.		.	
1010	602.0505 Curb Ramp Detectable Warning Field Yellow	1,102.000 SF	.		.	
1020	602.1500 Concrete Steps	235.000 SF	.		.	
1030	603.1142 Concrete Barrier Type S42	141.000 LF	.		.	
1040	603.8000 Concrete Barrier Temporary Precast Delivered	721.000 LF	.		.	
1050	603.8125 Concrete Barrier Temporary Precast Installed	721.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1060	604.0400 Slope Paving Concrete	1,440.000 SY	.		.	
1070	606.0100 Riprap Light	27.000 CY	.		.	
1080	606.0200 Riprap Medium	490.000 CY	.		.	
1090	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	1,338.000 LF	.		.	
1100	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	633.000 LF	.		.	
1110	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	4,333.000 LF	.		.	
1120	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	2,453.000 LF	.		.	
1130	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	486.000 LF	.		.	
1140	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	977.000 LF	.		.	
1150	608.0354 Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	523.000 LF	.		.	



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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1160	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	36.000 LF	.		.	
1170	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	115.000 LF	.		.	
1180	611.0420 Reconstructing Manholes	3.000 EACH	.		.	
1190	611.0430 Reconstructing Inlets	1.000 EACH	.		.	
1200	611.0606 Inlet Covers Type B	1.000 EACH	.		.	
1210	611.0624 Inlet Covers Type H	179.000 EACH	.		.	
1220	611.0642 Inlet Covers Type MS	17.000 EACH	.		.	
1230	611.1004 Catch Basins 4-FT Diameter	27.000 EACH	.		.	
1240	611.1005 Catch Basins 5-FT Diameter	10.000 EACH	.		.	
1250	611.1006 Catch Basins 6-FT Diameter	3.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1260	611.1230 Catch Basins 2x3-FT	78.000 EACH	.		.	
1270	611.2004 Manholes 4-FT Diameter	4.000 EACH	.		.	
1280	611.2005 Manholes 5-FT Diameter	3.000 EACH	.		.	
1290	611.2006 Manholes 6-FT Diameter	6.000 EACH	.		.	
1300	611.2008 Manholes 8-FT Diameter	1.000 EACH	.		.	
1310	611.3004 Inlets 4-FT Diameter	17.000 EACH	.		.	
1320	611.3230 Inlets 2x3-FT	43.000 EACH	.		.	
1330	611.3901 Inlets Median 1 Grate	3.000 EACH	.		.	
1340	611.3902 Inlets Median 2 Grate	8.000 EACH	.		.	
1350	611.8110 Adjusting Manhole Covers	8.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1360	611.8115 Adjusting Inlet Covers	2.000 EACH	.		.	
1370	611.8120.S Cover Plates Temporary	31.000 EACH	.		.	
1380	612.0406 Pipe Underdrain Wrapped 6-Inch	200.000 LF	.		.	
1390	612.0902.S Insulation Board Polystyrene (inch) 01. 2-Inch	392.000 SY	.		.	
1400	614.0150 Anchor Assemblies for Steel Plate Beam Guard	4.000 EACH	.		.	
1410	614.0805 Crash Cushions Permanent Low Maintenance	1.000 EACH	.		.	
1420	614.0905 Crash Cushions Temporary	1.000 EACH	.		.	
1430	614.1000 MGS Guardrail Temporary	12.000 LF	.		.	
1440	614.1100 MGS Guardrail Temporary Thrie Beam Transition	38.000 LF	.		.	
1450	614.1200 MGS Guardrail Temporary Terminal EAT	2.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1460	614.2300 MGS Guardrail 3	1,225.000				
	LF		.		.	
1470	614.2500 MGS Thrie Beam Transition	92.000				
	LF		.		.	
1480	614.2610 MGS Guardrail Terminal EAT	4.000				
	EACH		.		.	
1490	614.2620 MGS Guardrail Terminal Type 2	4.000				
	EACH		.		.	
1500	616.0206 Fence Chain Link 6-FT	3,733.000				
	LF		.		.	
1510	616.0329 Gates Chain Link (width) 01. 12-FT	1.000				
	EACH		.		.	
1520	618.0100 Maintenance And Repair of Haul Roads (project) 01. 1071-06-83	1.000				
	EACH		.		.	
1530	618.0100 Maintenance And Repair of Haul Roads (project) 02. 7190-03-72	1.000				
	EACH		.		.	
1540	619.1000 Mobilization	1.000				
	EACH		.		.	
1550	620.0300 Concrete Median Sloped Nose	1,988.000				
	SF		.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1560	624.0100 Water	2,335.000				
		MGAL	.		.	
1570	625.0500 Salvaged Topsoil	203,410.000				
		SY	.		.	
1580	627.0200 Mulching	255,786.000				
		SY	.		.	
1590	628.1104 Erosion Bales	50.000				
		EACH	.		.	
1600	628.1504 Silt Fence	18,605.000				
		LF	.		.	
1610	628.1520 Silt Fence Maintenance	18,605.000				
		LF	.		.	
1620	628.1905 Mobilizations Erosion Control	45.000				
		EACH	.		.	
1630	628.1910 Mobilizations Emergency Erosion Control	24.000				
		EACH	.		.	
1640	628.2004 Erosion Mat Class I Type B	29,870.000				
		SY	.		.	
1650	628.6510 Soil Stabilizer Type B	10.000				
		ACRE	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1660	628.7005 Inlet Protection Type A	237.000 EACH	.		.	
1670	628.7015 Inlet Protection Type C	208.000 EACH	.		.	
1680	628.7504 Temporary Ditch Checks	585.000 LF	.		.	
1690	628.7555 Culvert Pipe Checks	90.000 EACH	.		.	
1700	628.7560 Tracking Pads	12.000 EACH	.		.	
1710	629.0210 Fertilizer Type B	139.100 CWT	.		.	
1720	630.0120 Seeding Mixture No. 20	4,778.000 LB	.		.	
1730	630.0140 Seeding Mixture No. 40	347.000 LB	.		.	
1740	630.0160 Seeding Mixture No. 60	28.000 LB	.		.	
1750	630.0200 Seeding Temporary	4,446.000 LB	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1760	630.0300 Seeding Borrow Pit	187.000 LB	.		.	
1770	631.1000 Sod Lawn	1,426.000 SY	.		.	
1780	632.0101 Trees (species) (size) (root) 01. River Birch, B&B, 2.5" CAL	12.000 EACH	.		.	
1790	632.0101 Trees (species) (size) (root) 02. Common Hackberry B&B, 2" CAL	3.000 EACH	.		.	
1800	632.0101 Trees (species) (size) (root) 03. Thornless Hawthorn, B&B, 1.5" CAL	27.000 EACH	.		.	
1810	632.0101 Trees (species) (size) (root) 04. Skyline Honeylocust, B&B, 2.5" CAL	11.000 EACH	.		.	
1820	632.0101 Trees (species) (size) (root) 05. Spring Snow Crabapple, B&B, 1.5" CAL	13.000 EACH	.		.	
1830	632.0101 Trees (species) (size) (root) 06. White Oak, B&B, 2.5" CAL	22.000 EACH	.		.	
1840	632.0101 Trees (species) (size) (root) 07. Burr Oak, B&B, 2.5" CAL	11.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1850	632.0101 Trees (species) (size) (root) 08. Red Oak, B&B, 2.5" CAL	17.000 EACH	.		.	
1860	632.0101 Trees (species) (size) (root) 09. Princeton American Elm, B&B, 2.5" CAL	18.000 EACH	.		.	
1870	632.0101 Trees (species) (size) (root) 10. Valley Forge Elm, B&B, 2. 5" CAL	5.000 EACH	.		.	
1880	632.0201 Shrubs (species) (size) (root) 01. Isanti Dogwood, CG, #5 Cont.	24.000 EACH	.		.	
1890	632.9101 Landscape Planting Surveillance and Care Cycles	40.000 EACH	.		.	
1900	633.0100 Delineator Posts Steel	37.000 EACH	.		.	
1910	633.0500 Delineator Reflectors	40.000 EACH	.		.	
1920	633.1100 Delineators Temporary	17.000 EACH	.		.	
1930	633.5200 Markers Culvert End	31.000 EACH	.		.	



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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1940	634.0612 Posts Wood 4x6-Inch X 12-FT	6.000 EACH	.		.	
1950	634.0614 Posts Wood 4x6-Inch X 14-FT	100.000 EACH	.		.	
1960	634.0616 Posts Wood 4x6-Inch X 16-FT	61.000 EACH	.		.	
1970	634.0618 Posts Wood 4x6-Inch X 18-FT	17.000 EACH	.		.	
1980	634.0620 Posts Wood 4x6-Inch X 20-FT	11.000 EACH	.		.	
1990	634.0622 Posts Wood 4x6-Inch X 22-FT	1.000 EACH	.		.	
2000	635.0200 Sign Supports Structural Steel HS	1,500.000 LB	.		.	
2010	636.0100 Sign Supports Concrete Masonry	42.800 CY	.		.	
2020	636.1000 Sign Supports Steel Reinforcement HS	166.000 LB	.		.	
2030	636.1500 Sign Supports Steel Coated Reinforcement HS	5,500.000 LB	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2040	637.1220 Signs Type I Reflective SH	2,128.000 SF	.		.	
2050	637.2210 Signs Type II Reflective H	1,292.060 SF	.		.	
2060	637.2215 Signs Type II Reflective H Folding	234.140 SF	.		.	
2070	637.2220 Signs Type II Reflective SH	4.500 SF	.		.	
2080	637.2230 Signs Type II Reflective F	234.250 SF	.		.	
2090	638.2102 Moving Signs Type II	48.000 EACH	.		.	
2100	638.2601 Removing Signs Type I	26.000 EACH	.		.	
2110	638.2602 Removing Signs Type II	144.000 EACH	.		.	
2120	638.3000 Removing Small Sign Supports	158.000 EACH	.		.	
2130	638.3100 Removing Structural Steel Sign Supports	2.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2140	638.3620 Erecting State Owned Signs Type II	3.000 EACH	.		.	
2150	638.4000 Moving Small Sign Supports	52.000 EACH	.		.	
2160	641.1200 Sign Bridge Cantilevered (structure) 02. S-32-54	LUMP	LUMP		.	
2170	641.6600 Sign Bridge (structure) 01. S-32-51	LUMP	LUMP		.	
2180	641.6600 Sign Bridge (structure) 05. S-32-65	LUMP	LUMP		.	
2190	641.8100 Overhead Sign Support (structure) 01. S-32-55	LUMP	LUMP		.	
2200	641.8100 Overhead Sign Support (structure) 02. S-32-56	LUMP	LUMP		.	
2210	641.8100 Overhead Sign Support (structure) 03. S-32-50	LUMP	LUMP		.	
2220	641.8100 Overhead Sign Support (structure) 04. S-32-52	LUMP	LUMP		.	
2230	641.8100 Overhead Sign Support (structure) 05. S-32-66	LUMP	LUMP		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2240	641.8100 Overhead Sign Support (structure) 06. S-32-68	LUMP	LUMP			.
2250	641.8100 Overhead Sign Support (structure) 40. S-32-53	LUMP	LUMP			.
2260	642.5201 Field Office Type C	1.000 EACH	.			.
2270	643.0200.S Traffic Control Surveillance and Maintenance (project) 01. 1071-06-83	222.000 DAY	.			.
2280	643.0200.S Traffic Control Surveillance and Maintenance (project) 02. 7190-03-72	222.000 DAY	.			.
2290	643.0200.S Traffic Control Surveillance and Maintenance (project) 03. 1071-06-82	222.000 DAY	.			.
2300	643.0300 Traffic Control Drums	70,391.000 DAY	.			.
2310	643.0410 Traffic Control Barricades Type II	625.000 DAY	.			.
2320	643.0420 Traffic Control Barricades Type III	14,921.000 DAY	.			.

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			DOLLARS	CTS	DOLLARS	CTS
2330	643.0500 Traffic Control Flexible Tubular Marker Posts	496.000 EACH	.		.	
2340	643.0600 Traffic Control Flexible Tubular Marker Bases	496.000 EACH	.		.	
2350	643.0705 Traffic Control Warning Lights Type A	20,708.000 DAY	.		.	
2360	643.0715 Traffic Control Warning Lights Type C	4,694.000 DAY	.		.	
2370	643.0800 Traffic Control Arrow Boards	816.000 DAY	.		.	
2380	643.0900 Traffic Control Signs	33,628.000 DAY	.		.	
2390	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	.		.	
2400	643.0920 Traffic Control Covering Signs Type II	6.000 EACH	.		.	
2410	643.1000 Traffic Control Signs Fixed Message	416.250 SF	.		.	
2420	643.1050 Traffic Control Signs PCMS	1,587.000 DAY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2430	643.2000 Traffic Control Detour (project) 01. 1071-06-83	1.000 EACH	.		.	
2440	643.3000 Traffic Control Detour Signs	35,000.000 DAY	.		.	
2450	645.0120 Geotextile Type HR	837.000 SY	.		.	
2460	645.0130 Geotextile Type R	89.000 SY	.		.	
2470	646.0103 Pavement Marking Paint 4-Inch	240.000 LF	.		.	
2480	646.0600 Removing Pavement Markings	39,919.000 LF	.		.	
2490	646.0842.S Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	47,819.000 LF	.		.	
2500	646.0843.S Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	1,024.000 LF	.		.	
2510	646.0844.S Pavement Marking Grooved Contrast Wet Reflective Epoxy 8-Inch	6,012.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2520	647.0153 Pavement Marking Arrows Paint Type 1	2.000 EACH	.		.	
2530	647.0166 Pavement Marking Arrows Epoxy Type 2	44.000 EACH	.		.	
2540	647.0176 Pavement Marking Arrows Epoxy Type 3	3.000 EACH	.		.	
2550	647.0253 Pavement Marking Symbols Paint	1.000 EACH	.		.	
2560	647.0356 Pavement Marking Words Epoxy	45.000 EACH	.		.	
2570	647.0456 Pavement Marking Curb Epoxy	632.000 LF	.		.	
2580	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	711.000 LF	.		.	
2590	647.0606 Pavement Marking Island Nose Epoxy	24.000 EACH	.		.	
2600	647.0653 Pavement Marking Parking Stall Paint	504.000 LF	.		.	
2610	647.0726 Pavement Marking Diagonal Epoxy 12-Inch	215.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2620	647.0766 Pavement Marking Crosswalk Epoxy 6-Inch	2,233.000 LF	.		.	
2630	647.0955 Removing Pavement Markings Arrows	5.000 EACH	.		.	
2640	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	5,977.000 LF	.		.	
2650	649.0402 Temporary Pavement Marking Paint 4-Inch	87,529.000 LF	.		.	
2660	649.0801 Temporary Pavement Marking Removable Tape 8-Inch	1,290.000 LF	.		.	
2670	649.0802 Temporary Pavement Marking Paint 8-Inch	6,390.000 LF	.		.	
2680	649.1100 Temporary Pavement Marking Stop Line 18-Inch	591.000 LF	.		.	
2690	649.1200 Temporary Pavement Marking Stop Line Removable Tape 18-Inch	181.000 LF	.		.	
2700	649.1800 Temporary Pavement Marking Arrows Removable Tape	11.000 EACH	.		.	
2710	649.1802 Temporary Pavement Marking Arrows Paint	31.000 EACH	.		.	



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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2720	649.2000 Temporary Pavement Marking Words Removable Tape	6.000 EACH	.		.	
2730	649.2002 Temporary Pavement Marking Words Paint	12.000 EACH	.		.	
2740	650.4000 Construction Staking Storm Sewer	249.000 EACH	.		.	
2750	650.4500 Construction Staking Subgrade	35,737.000 LF	.		.	
2760	650.5000 Construction Staking Base	13,820.000 LF	.		.	
2770	650.5500 Construction Staking Curb Gutter and Curb & Gutter	3,278.000 LF	.		.	
2780	650.6500 Construction Staking Structure Layout (structure) 01. B-32-67	LUMP	LUMP		.	
2790	650.6500 Construction Staking Structure Layout (structure) 02. S-32-54	LUMP	LUMP		.	
2800	650.6500 Construction Staking Structure Layout (structure) 03. S-32-55	LUMP	LUMP		.	

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			DOLLARS	CTS	DOLLARS	CTS
2810	650.6500 Construction Staking Structure Layout (structure) 04. S-32-56	LUMP	LUMP			.
2820	650.6500 Construction Staking Structure Layout (structure) 05. S-32-65	LUMP	LUMP			.
2830	650.6500 Construction Staking Structure Layout (structure) 06. S-32-51	LUMP	LUMP			.
2840	650.6500 Construction Staking Structure Layout (structure) 40. S-32-53	LUMP	LUMP			.
2850	650.6500 Construction Staking Structure Layout (structure) 50. S-32-50	LUMP	LUMP			.
2860	650.6500 Construction Staking Structure Layout (structure) 51. S-32-52	LUMP	LUMP			.
2870	650.6500 Construction Staking Structure Layout (structure) 52. S-32-66	LUMP	LUMP			.
2880	650.6500 Construction Staking Structure Layout (structure) 53. S-32-68	LUMP	LUMP			.

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2890	650.7000 Construction Staking Concrete Pavement	21,946.000 LF	.		.	
2900	650.8500 Construction Staking Electrical Installations (project) 01. 1071-06-82	LUMP	LUMP		.	
2910	650.8500 Construction Staking Electrical Installations (project) 02. 1071-06-83	LUMP	LUMP		.	
2920	650.8500 Construction Staking Electrical Installations (project) 03. 7190-03-72	LUMP	LUMP		.	
2930	650.9910 Construction Staking Supplemental Control (project) 01. 1071-06-83	LUMP	LUMP		.	
2940	650.9910 Construction Staking Supplemental Control (project) 02. 7190-03-72	LUMP	LUMP		.	
2950	650.9910 Construction Staking Supplemental Control (project) 03. 1071-06-82	LUMP	LUMP		.	
2960	650.9920 Construction Staking Slope Stakes	36,287.000 LF	.		.	
2970	652.0125 Conduit Rigid Metallic 2-Inch	24.000 LF	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2980	652.0205 Conduit Rigid Nonmetallic Schedule 40 3/4-Inch	318.000 LF	.		.	
2990	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	30,913.000 LF	.		.	
3000	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	5,645.000 LF	.		.	
3010	652.0800 Conduit Loop Detector	1,605.000 LF	.		.	
3020	653.0135 Pull Boxes Steel 24x36-Inch	2.000 EACH	.		.	
3030	653.0140 Pull Boxes Steel 24x42-Inch	2.000 EACH	.		.	
3040	653.0220 Junction Boxes 18x6x6-Inch	4.000 EACH	.		.	
3050	653.0905 Removing Pull Boxes	24.000 EACH	.		.	
3060	654.0101 Concrete Bases Type 1	21.000 EACH	.		.	
3070	654.0102 Concrete Bases Type 2	14.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3080	654.0105 Concrete Bases Type 5	5.000 EACH	.		.	
3090	654.0106 Concrete Bases Type 6	29.000 EACH	.		.	
3100	654.0110 Concrete Bases Type 10	4.000 EACH	.		.	
3110	654.0113 Concrete Bases Type 13	11.000 EACH	.		.	
3120	654.0217 Concrete Control Cabinet Bases Type 9 Special	5.000 EACH	.		.	
3130	654.0230 Concrete Control Cabinet Bases Type L30	3.000 EACH	.		.	
3140	655.0210 Cable Traffic Signal 3-14 AWG	435.000 LF	.		.	
3150	655.0230 Cable Traffic Signal 5-14 AWG	3,778.000 LF	.		.	
3160	655.0240 Cable Traffic Signal 7-14 AWG	4,897.000 LF	.		.	
3170	655.0250 Cable Traffic Signal 9-14 AWG	3,385.000 LF	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3180	655.0260 Cable Traffic Signal 12-14 AWG	3,145.000 LF	.		.	
3190	655.0305 Cable Type UF 2-12 AWG Grounded	5,000.000 LF	.		.	
3200	655.0510 Electrical Wire Traffic Signals 12 AWG	1,650.000 LF	.		.	
3210	655.0515 Electrical Wire Traffic Signals 10 AWG	6,412.000 LF	.		.	
3220	655.0610 Electrical Wire Lighting 12 AWG	20,790.000 LF	.		.	
3230	655.0615 Electrical Wire Lighting 10 AWG	5,592.000 LF	.		.	
3240	655.0620 Electrical Wire Lighting 8 AWG	2,510.000 LF	.		.	
3250	655.0630 Electrical Wire Lighting 4 AWG	54,750.000 LF	.		.	
3260	655.0635 Electrical Wire Lighting 2 AWG	6,759.000 LF	.		.	
3270	655.0700 Loop Detector Lead In Cable	13,646.000 LF	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3280	655.0800 Loop Detector Wire	5,265.000 LF	.		.	
3290	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. USH 53 & Palace	LUMP	LUMP		.	
3300	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. USH 53 & STH 35	LUMP	LUMP		.	
3310	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. STH 35 & W George	LUMP	LUMP		.	
3320	656.0200 Electrical Service Meter Breaker Pedestal (location) 04. City of LaCrosse LC1	LUMP	LUMP		.	
3330	656.0200 Electrical Service Meter Breaker Pedestal (location) 05. City of LaCrosse LC2	LUMP	LUMP		.	
3340	656.0200 Electrical Service Meter Breaker Pedestal (location) 06. City of LaCrosse LC3	LUMP	LUMP		.	
3350	656.0200 Electrical Service Meter Breaker Pedestal (location) 07. USH 53 & IH 90 EB	LUMP	LUMP		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3360	656.0200 Electrical Service Meter Breaker Pedestal (location) 08. USH 53 & IH 90 WB	LUMP	LUMP			.
3370	657.0100 Pedestal Bases	22.000 EACH		.		.
3380	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	42.000 EACH		.		.
3390	657.0315 Poles Type 4	14.000 EACH		.		.
3400	657.0327 Poles Type 6-Aluminum	25.000 EACH		.		.
3410	657.0420 Traffic Signal Standards Aluminum 13-FT	15.000 EACH		.		.
3420	657.0425 Traffic Signal Standards Aluminum 15-FT	6.000 EACH		.		.
3430	657.0430 Traffic Signal Standards Aluminum 10-FT	1.000 EACH		.		.
3440	657.0709 Luminaire Arms Truss Type 4-Inch Clamp 12-FT	22.000 EACH		.		.
3450	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	49.000 EACH		.		.



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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3460	657.1350 Install Poles Type 10	4.000 EACH	.		.	
3470	657.1360 Install Poles Type 13	11.000 EACH	.		.	
3480	657.1520 Install Monotube Arms 20-FT	2.000 EACH	.		.	
3490	657.1530 Install Monotube Arms 30-FT	2.000 EACH	.		.	
3500	657.1535 Install Monotube Arms 35-FT	1.000 EACH	.		.	
3510	657.1545 Install Monotube Arms 45-FT	3.000 EACH	.		.	
3520	657.1550 Install Monotube Arms 50-FT	2.000 EACH	.		.	
3530	657.1555 Install Monotube Arms 55-FT	5.000 EACH	.		.	
3540	657.1815 Install Luminaire Arms Steel 15-FT	7.000 EACH	.		.	
3550	658.0110 Traffic Signal Face 3-12 Inch Vertical	67.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3560	658.0115 Traffic Signal Face 4-12 Inch Vertical	17.000 EACH	.		.	
3570	658.0215 Backplates Signal Face 3 Section 12-Inch	67.000 EACH	.		.	
3580	658.0220 Backplates Signal Face 4 Section 12-Inch	17.000 EACH	.		.	
3590	658.0416 Pedestrian Signal Face 16-Inch	29.000 EACH	.		.	
3600	658.0500 Pedestrian Push Buttons	30.000 EACH	.		.	
3610	658.0600 Led Modules 12-Inch Red Ball	64.000 EACH	.		.	
3620	658.0605 Led Modules 12-Inch Yellow Ball	55.000 EACH	.		.	
3630	658.0610 Led Modules 12-Inch Green Ball	55.000 EACH	.		.	
3640	658.0615 Led Modules 12-Inch Red Arrow	20.000 EACH	.		.	
3650	658.0620 Led Modules 12-Inch Yellow Arrow	41.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3660	658.0625 Led Modules 12-Inch Green Arrow	34.000 EACH	.		.	
3670	658.0635 Led Modules Pedestrian Countdown Timer 16-Inch	29.000 EACH	.		.	
3680	658.5069 Signal Mounting Hardware (location) 01. USH 53 & Palace	LUMP	LUMP		.	
3690	658.5069 Signal Mounting Hardware (location) 02. USH 53 & STH 35	LUMP	LUMP		.	
3700	658.5069 Signal Mounting Hardware (location) 03. STH 35 & W George	LUMP	LUMP		.	
3710	658.5069 Signal Mounting Hardware (location) 04. 103 RN+69	LUMP	LUMP		.	
3720	658.5069 Signal Mounting Hardware (location) 05. 117 RN+35	LUMP	LUMP		.	
3730	659.1125 Luminaires Utility LED C	78.000 EACH	.		.	
3740	659.2130 Lighting Control Cabinets 120/240 30-Inch	3.000 EACH	.		.	
3750	661.0200 Temporary Traffic Signals for Intersections (location) 01. STH 35 and George Street	LUMP	LUMP		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3760	661.0200 Temporary Traffic Signals for Intersections (location) 02. STH 35 and USH 53	LUMP	LUMP			.
3770	661.0200 Temporary Traffic Signals for Intersections (location) 03. Palace Street and USH 53	LUMP	LUMP			.
3780	661.0200 Temporary Traffic Signals for Intersections (location) 04. Eastbound Ramp Terminal	LUMP	LUMP			.
3790	661.0200 Temporary Traffic Signals for Intersections (location) 05. Westbound Ramp Terminal	LUMP	LUMP			.
3800	662.1037.S Ramp Closure Gates Hardwired 37-FT	2.000 EACH		.		.
3810	662.1040.S Ramp Closure Gates Hardwired 40-FT	1.000 EACH		.		.
3820	676.0300 Signal Assembly Advance Flasher Type 1	1.000 EACH		.		.
3830	678.0036 Install Fiber Optic Cable Outdoor Plant 36-CT	12,545.000 LF		.		.

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3840	678.0200 Fiber Optic Splice Enclosure	8.000 EACH	.		.	
3850	678.0300 Fiber Optic Splice	64.000 EACH	.		.	
3860	690.0150 Sawing Asphalt	6,936.000 LF	.		.	
3870	690.0250 Sawing Concrete	3,597.000 LF	.		.	
3880	715.0415 Incentive Strength Concrete Pavement	25,615.000 DOL	1.00000		25615.00	
3890	715.0502 Incentive Strength Concrete Structures	3,720.000 DOL	1.00000		3720.00	
3900	999.1500.S Crack and Damage Survey	LUMP	LUMP		.	
3910	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	2,100.000 HRS	5.00000		10500.00	
3920	ASP.1T0G On-the-Job Training Graduate at \$5. 00/HR	6,480.000 HRS	5.00000		32400.00	
3930	SPV.0035 Special 02. Planting Soil Mix	1,896.000 CY	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3940	SPV.0035 Special 03. Colored Concrete Bands	15.000 CY	.		.	
3950	SPV.0060 Special 01. Moonshine Yarrow	582.000 EACH	.		.	
3960	SPV.0060 Special 02. Nodding Wild Onion	1,037.000 EACH	.		.	
3970	SPV.0060 Special 03. Summer Beauty Globe Lily	1,111.000 EACH	.		.	
3980	SPV.0060 Special 04. Sky-Blue Aster	149.000 EACH	.		.	
3990	SPV.0060 Special 05. Blue Wild Indigo	47.000 EACH	.		.	
4000	SPV.0060 Special 06. Connecting To Existing Inlets	7.000 EACH	.		.	
4010	SPV.0060 Special 07. Blue Wild Indigo 'Purple Smoke'	55.000 EACH	.		.	
4020	SPV.0060 Special 08. Brown Fox Sedge	247.000 EACH	.		.	
4030	SPV.0060 Special 09. Lanceleaf Tickseed	855.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4040	SPV.0060 Special 11. Prairie Splendor Coneflower	548.000 EACH	.		.	
4050	SPV.0060 Special 12. Rocket City Daylily	184.000 EACH	.		.	
4060	SPV.0060 Special 13. German Iris	305.000 EACH	.		.	
4070	SPV.0060 Special 14. Plaza Seat Stone Type A	4.000 EACH	.		.	
4080	SPV.0060 Special 15. Plaza Seat Stone Type B	6.000 EACH	.		.	
4090	SPV.0060 Special 16. Plaza Seat Stone Type C	3.000 EACH	.		.	
4100	SPV.0060 Special 17. Lawn Seat Stone Type A	3.000 EACH	.		.	
4110	SPV.0060 Special 18. Lawn Seat Stone Type B	5.000 EACH	.		.	
4120	SPV.0060 Special 19. Lawn Seat Stone Type C	4.000 EACH	.		.	
4130	SPV.0060 Special 20. Bench Type A	7.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4140	SPV.0060 Special 21. Bike Rack	3.000 EACH	.		.	
4150	SPV.0060 Special 22. Surface Mounted Trash Receptacle	2.000 EACH	.		.	
4160	SPV.0060 Special 23. Bearing Repair	8.000 EACH	.		.	
4170	SPV.0060 Special 25. Spotting Scope Type B	1.000 EACH	.		.	
4180	SPV.0060 Special 26. Decorative Lighting Unit 20-Foot	2.000 EACH	.		.	
4190	SPV.0060 Special 27. Decorative Bollard	6.000 EACH	.		.	
4200	SPV.0060 Special 28. Concrete Bollard Base	6.000 EACH	.		.	
4210	SPV.0060 Special 29. Spotting Scope Type A	2.000 EACH	.		.	
4220	SPV.0060 Special 30. Inlets 5-FT Diameter	1.000 EACH	.		.	
4230	SPV.0060 Special 31. Inlets 6-FT Diameter	1.000 EACH	.		.	



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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4240	SPV.0060 Special 32. Sanitary Manhole Covers	4.000 EACH	.		.	
4250	SPV.0060 Special 33. Blue Flag Iris	248.000 EACH	.		.	
4260	SPV.0060 Special 34. Prairie June Grass	618.000 EACH	.		.	
4270	SPV.0060 Special 35. Cylindrical Blazing Star	166.000 EACH	.		.	
4280	SPV.0060 Special 36. Spike Gayfeather	57.000 EACH	.		.	
4290	SPV.0060 Special 37. Yellow Coneflower	866.000 EACH	.		.	
4300	SPV.0060 Special 38. Prairie Dropseed	902.000 EACH	.		.	
4310	SPV.0060 Special 39. Blue Vervain	237.000 EACH	.		.	
4320	SPV.0060 Special 45. Corporation Stop 2-Inch	1.000 EACH	.		.	
4330	SPV.0060 Special 46. Service Stop 2-Inch	1.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4340	SPV.0060 Special 47. D. I. Fitting Plug 8-Inch	1.000 EACH	.		.	
4350	SPV.0060 Special 48. R. S. Gate Valve With Road Box 8-Inch	1.000 EACH	.		.	
4360	SPV.0060 Special 50. Manholes 5-FT Diameter With Gate	2.000 EACH	.		.	
4370	SPV.0060 Special 51. Manholes 6-FT Diameter With Gate	2.000 EACH	.		.	
4380	SPV.0060 Special 52. Automatic Drainage Gates 24-Inch	3.000 EACH	.		.	
4390	SPV.0060 Special 53. Automatic Drainage Gates 36-Inch	3.000 EACH	.		.	
4400	SPV.0060 Special 54. Remove And Salvage Storm Water Gate	8.000 EACH	.		.	
4410	SPV.0060 Special 55. Manhole Covers Type J-Modified	15.000 EACH	.		.	
4420	SPV.0060 Special 60. Corporation Stop 1-Inch	1.000 EACH	.		.	
4430	SPV.0060 Special 61. Service Stop 1-Inch	1.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4440	SPV.0060 Special 62. Adjust Service Stop Elevation	11.000 EACH	.		.	
4450	SPV.0060 Special 63. Relocate Fire Hydrant	5.000 EACH	.		.	
4460	SPV.0060 Special 64. Fire Hydrant - New	4.000 EACH	.		.	
4470	SPV.0060 Special 65. Adjust Fire Hydrant Elevation	2.000 EACH	.		.	
4480	SPV.0060 Special 66. R. S. Hydrant Control Valve With Road Box 6-Inch	4.000 EACH	.		.	
4490	SPV.0060 Special 67. Adjust Water Main Valve Elevation	16.000 EACH	.		.	
4500	SPV.0060 Special 68. Nitrile Gaskets 8-Inch	5.000 EACH	.		.	
4510	SPV.0060 Special 69. Nitrile Gaskets 6-Inch	2.000 EACH	.		.	
4520	SPV.0060 Special 70. Tapping Valve and Sleeve 6-Inch	2.000 EACH	.		.	
4530	SPV.0060 Special 71. D. I. Fitting - 45 Degree Bend 8-Inch	4.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
4540	SPV.0060 Special 72. D. I. Fitting - 45 Degree Bend 6-Inch	4.000 EACH	.		.	
4550	SPV.0060 Special 73. D. I. Fitting - Reducer 8 to 6-Inch	1.000 EACH	.		.	
4560	SPV.0060 Special 74. D. I. Fitting, 8x6 Inch Tee For Fire Hydrant	2.000 EACH	.		.	
4570	SPV.0060 Special 75. Connect Existing Water Service To New Water Main	1.000 EACH	.		.	
4580	SPV.0060 Special 76. Sanitary Sewer Manhole New, 48-Inch ID	7.000 EACH	.		.	
4590	SPV.0060 Special 77. Sanitary Sewer Manhole Remove 48-Inch ID	2.000 EACH	.		.	
4600	SPV.0060 Special 78. Adjust Sanitary Sewer Manhole Elevation, 48-Inch ID	11.000 EACH	.		.	
4610	SPV.0060 Special 79. Sanitary Sewer Wye PVC - 8x6-Inch	1.000 EACH	.		.	
4620	SPV.0060 Special 80. Black Paint Pedestal Bases	21.000 EACH	.		.	

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1071-06-89

N/A

7190-03-72

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4630	SPV.0060 Special 81. Black Paint Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	39.000 EACH	.		.	
4640	SPV.0060 Special 82. Black Paint Traffic Signal Standard Aluminum 13-FT	15.000 EACH	.		.	
4650	SPV.0060 Special 83. Black Paint Traffic Signal Standard Aluminum 15-FT	5.000 EACH	.		.	
4660	SPV.0060 Special 84. Black Paint Traffic Signal Standard Aluminum 10-FT	1.000 EACH	.		.	
4670	SPV.0060 Special 85. Black Paint Poles Type 4	14.000 EACH	.		.	
4680	SPV.0060 Special 86. Black Paint Poles Type 6, Modified Aluminum	25.000 EACH	.		.	
4690	SPV.0060 Special 87. Black Paint Luminaire Arms Truss Type 4.5-Inch Clamp 12-FT	49.000 EACH	.		.	
4700	SPV.0060 Special 88. Black Paint Luminaire Arms Truss Type 4-Inch Clamp 12-FT	22.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4710	SPV.0060 Special 89. Black Paint Luminaires Utility LED C	78.000 EACH	.		.	
4720	SPV.0060 Special 90. Black Paint Lighting Control Cabinet	3.000 EACH	.		.	
4730	SPV.0060 Special 91. Removing Traffic Signal Units	31.000 EACH	.		.	
4740	SPV.0060 Special 92. Pull Box Non-Conductive 24x42-Inch	125.000 EACH	.		.	
4750	SPV.0060 Special 93. 8-Count Fiber Optic Connector 250-FT	7.000 EACH	.		.	
4760	SPV.0060 Special 94. 8-Count Fiber Optic Connector 1000-FT	1.000 EACH	.		.	
4770	SPV.0060 Special 95. Remove Existing Lighting Control	1.000 EACH	.		.	
4780	SPV.0060 Special 96. Decorative Street Light Base	45.000 EACH	.		.	
4790	SPV.0060 Special 97. Decorative Street Light Assembly	45.000 EACH	.		.	
4800	SPV.0060 Special 98. Round Communications Vault 36x42-Inch	5.000 EACH	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4810	SPV.0060 Special 99. Remove Existing Lighting Pole	1.000 EACH	.		.	
4820	SPV.0085 Special 01. Native Prairie	46.000 LB	.		.	
4830	SPV.0085 Special 02. Pollinator Mix	10.000 LB	.		.	
4840	SPV.0085 Special 03. No-Mow Fescue	224.000 LB	.		.	
4850	SPV.0090 Special 02. Concrete Curb And Gutter Integral 54-Inch Type A	358.000 LF	.		.	
4860	SPV.0090 Special 03. Concrete Curb And Gutter Integral 66-Inch Type A	16,163.000 LF	.		.	
4870	SPV.0090 Special 10. Aluminum Edging	7,597.000 LF	.		.	
4880	SPV.0090 Special 11. Steel Railing	205.000 LF	.		.	
4890	SPV.0090 Special 50. Level Spreader Wall	24.000 LF	.		.	
4900	SPV.0090 Special 66. Copper Water Service 1-Inch	20.000 LF	.		.	

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4910	SPV.0090 Special 67. Extend Water Service	68.000 LF	.		.	
4920	SPV.0090 Special 68. D. I. Water Main With Poly Wrap 6-Inch	15.000 LF	.		.	
4930	SPV.0090 Special 69. D. I. Water Main With Poly Wrap 8-Inch	816.000 LF	.		.	
4940	SPV.0090 Special 70. D. I. Hydrant Lead With Poly Wrap 6-Inch	59.000 LF	.		.	
4950	SPV.0090 Special 71. SDR 35 PVC Sanitary Sewer Main 8-Inch	590.000 LF	.		.	
4960	SPV.0090 Special 72. SDR 35 PVC Sanitary Sewer Lateral 6-Inch	20.000 LF	.		.	
4970	SPV.0090 Special 73. Removing Sanitary Sewer	218.000 LF	.		.	
4980	SPV.0090 Special 74. Copper Water Service 2-Inch	50.000 LF	.		.	
4990	SPV.0090 Special 75. SDR 35 PVC Sanitary Sewer Main 18-Inch	79.000 LF	.		.	
5000	SPV.0090 Special 76. Water Main Casing Pipe 0. 25" Wall With End Seals, 18-Inch	140.000 LF	.		.	



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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5010	SPV.0090 Special 77. Support System For Water Main Inside Casing Pipe, 8 - 18-Inch	140.000 LF	.		.	
5020	SPV.0090 Special 78. Sanitary Sewer Pipe RCP 36-Inch	231.000 LF	.		.	
5030	SPV.0105 Special 01. Removing Sign Bridge S-32-18	LUMP	LUMP		.	
5040	SPV.0105 Special 02. Removing Sign Bridge S-32-21	LUMP	LUMP		.	
5050	SPV.0105 Special 03. Removing Sign Bridge S-32-19	LUMP	LUMP		.	
5060	SPV.0105 Special 04. Removing Sign Bridge S-32-20	LUMP	LUMP		.	
5070	SPV.0105 Special 05. Adjusting Construction Staking 1071-06-83	LUMP	LUMP		.	
5080	SPV.0105 Special 06. Adjusting Construction Staking Project 7190-03-72	LUMP	LUMP		.	
5090	SPV.0105 Special 07. Concrete Pavement Joint Layout 1071-06-83	LUMP	LUMP		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5100	SPV.0105 Special 08. Concrete Pavement Joint Layout Project 7190-03-72	LUMP	LUMP			.
5110	SPV.0105 Special 09. Construction Staking Eagle Viewing Area	LUMP	LUMP			.
5120	SPV.0105 Special 10. Construction Staking Ramp Removal Southeast Quad	LUMP	LUMP			.
5130	SPV.0105 Special 11. Construction Staking Ramp Removal Northeast Quad	LUMP	LUMP			.
5140	SPV.0105 Special 12. Construction Staking Ramp Removal Northwest Quad	LUMP	LUMP			.
5150	SPV.0105 Special 20. Shade Structure	LUMP	LUMP			.
5160	SPV.0105 Special 21. Construction Staking Landscaping Items	LUMP	LUMP			.
5170	SPV.0105 Special 22. Debris Containment Special Structure B-32-67	LUMP	LUMP			.
5180	SPV.0105 Special 23. Landscape Irrigation System	LUMP	LUMP			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5190	SPV.0105 Special 30. Paint Structure S-32-50	LUMP	LUMP			.
5200	SPV.0105 Special 31. Paint Structure S-32-51	LUMP	LUMP			.
5210	SPV.0105 Special 32. Paint Structure S-32-52	LUMP	LUMP			.
5220	SPV.0105 Special 33. Paint Structure S-32-53	LUMP	LUMP			.
5230	SPV.0105 Special 34. Paint Structure S-32-54	LUMP	LUMP			.
5240	SPV.0105 Special 35. Paint Structure S-32-55	LUMP	LUMP			.
5250	SPV.0105 Special 36. Paint Structure S-32-56	LUMP	LUMP			.
5260	SPV.0105 Special 37. Paint Structure S-32-65	LUMP	LUMP			.
5270	SPV.0105 Special 38. Paint Structure S-32-66	LUMP	LUMP			.
5280	SPV.0105 Special 39. Paint Structure S-32-68	LUMP	LUMP			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5290	SPV.0105 Special 40. Entry Sign	LUMP	LUMP			.
5300	SPV.0105 Special 41. Temp. Non-Intrusive Vehicle Detect. System For Intersections, Rose/Palace	LUMP	LUMP			.
5310	SPV.0105 Special 42. Temp. Non-Intrusive Vehicle Detect. System For Intersections, Rose/George	LUMP	LUMP			.
5320	SPV.0105 Special 43. Temp. Non-Intrusive Vehicle Detect. System For Intersections, STH 35/George	LUMP	LUMP			.
5330	SPV.0105 Special 44. Temp. Non-Intrusive Vehicle Detect. System For Intersections, RS&EBR1	LUMP	LUMP			.
5340	SPV.0105 Special 45. Temp. Non-Intrusive Vehicle Detect. System For Intersections, RS&EBR2	LUMP	LUMP			.
5350	SPV.0105 Special 46. Temp. Non-Intrusive Vehicle Detect. System For Intersections, RS&WBR1	LUMP	LUMP			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5360	SPV.0105 Special 47. Temp. Non-Intrusive Vehicle Detect. System For Intersections, RS&WBR2	LUMP	LUMP			.
5370	SPV.0105 Special 48. Temp. Non-Intrusive Vehicle Detect. System For Intersections, RS&WBR3	LUMP	LUMP			.
5380	SPV.0105 Special 50. Adjusting Construction Staking 1071-06-82	LUMP	LUMP			.
5390	SPV.0105 Special 51. Concrete Pavement Joint Layout 1071-06-82	LUMP	LUMP			.
5400	SPV.0105 Special 52. Removing Sign Bridge S-32-03	LUMP	LUMP			.
5410	SPV.0105 Special 53. Sanitary Sewer Bypass Pumping	LUMP	LUMP			.
5420	SPV.0105 Special 54. Sanitary Manhole Modifications	LUMP	LUMP			.
5430	SPV.0105 Special 55. Lift Station Wall Modification	LUMP	LUMP			.
5440	SPV.0165 Special 11. Modular Block Retaining Wall	SF 160.000		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5450	SPV.0165 Special 12. Trench Insulation 4-Inch	80.000 SF	.		.	
5460	SPV.0165 Special 13. Permeable Pavers	1,758.000 SF	.		.	
5470	SPV.0180 Special 01. Special Mulching	16,371.000 SY	.		.	
5480	SPV.0195 Special 01. Limestone Screenings Path	2,249.000 TON	.		.	
5490	SPV.0195 Special 02. Stone Screenings With Binder	518.000 TON	.		.	
5500	SPV.0195 Special 03. Permeable Base Aggregate ASTM-57	190.000 TON	.		.	
5510	SPV.0195 Special 04. Permeable Base Aggregate ASTM-2	253.000 TON	.		.	
5520	SPV.0200 Special 01. Sanitary Manholes 5-FT Diameter	43.000 VF	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	

**PLEASE ATTACH SCHEDULE OF ITEMS HERE**