

# HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation  
 DT1502 01/2020 s.66.0901(7) Wis. Stats

Proposal Number: **018**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Milwaukee	2410-13-70	WISC 2023099	W National Avenue; S 62nd Street To S 65th Street	LOC STR

## ADDENDUM REQUIRED ATTACHED AT BACK

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

Proposal Guaranty Required: \$75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: December 13, 2022 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code  <h3 style="margin: 0;">SAMPLE</h3> <h3 style="margin: 0;">NOT FOR BIDDING PURPOSES</h3>
Contract Completion Time August 11, 2023	This contract is exempt from federal oversight.
Assigned Disadvantaged Business Enterprise Goal <b>10%</b>	

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)

\_\_\_\_\_  
 (Bidder Signature)

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

\_\_\_\_\_  
 (Print or Type Bidder Name)

\_\_\_\_\_  
 (Date Commission Expires)

\_\_\_\_\_  
 (Bidder Title)

Notary Seal

Type of Work: Mill, Grade, Sanitary Sewer, Storm Sewer, Culvert Pipe, Water Main, Base, Concrete Pavement, Asphalt Pavement, Curb & Gutter, Sidewalk, Wall Modular Block Gravity Landscape, Signals, Lighting, Signing, Pavement Marking	<b>For Department Use Only</b>
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH  
PROPOSAL GUARANTY HERE**

## 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.

## 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:

<https://wisconsin.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 PM local time on the Thursday before the letting. Check the department's web site after 5:00 PM 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 PM 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:

<https://wisconsin.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 department's web site listed above or by picking up the addenda at the Bureau of Highway Construction, 4th floor, 4822 Madison Yards Way, 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:
  4. Have a properly executed annual bid bond on file with the department.
  5. 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™ web site.
  2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
  3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ 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 web site reflecting the latest addenda posted on the department's web site at:  
<https://wisconsin.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>  
 Use Expedite™ 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™ 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™ 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 envelope but due at the same time and place as the sealed bid, also provide the Expedite™ 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™ 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™ generated schedule of items is not the same on each page.
  2. The check code printed on the printout of the Expedite™ 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.

**B 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)

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

\_\_\_\_\_  
(Signature of Attorney-in-Fact)

**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**

**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)





## **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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## STSP'S Revised June 28, 2022

### SPECIAL PROVISIONS

#### 1. General.

Perform the work under this construction contract for Project 2410-13-70, W National Avenue, S 62nd Street to S 65th Street, Local Street, Milwaukee 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, 2023 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 (20220628)

#### 2. Scope of Work.

The work under this contract shall consist of base aggregate dense, concrete pavement, HMA pavement, curb and gutter, sidewalk, curb ramps, storm sewer, sanitary sewer, water main, pavement marking, permanent signing, street lighting, traffic signal loops, landscaping, streetscaping, restoration 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 10 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 10 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.

#### Construction Staging

Perform construction operations in stages as shown in the traffic control/construction staging plans unless modifications are approved in writing by the engineer.

##### Stage 1

Close National Avenue to through traffic between immediately west of S. 65th Street and west of S. 62nd Street. The intersections at S. 65th Street, S. 62nd Street and W. Greenfield Avenue are to remain open to through traffic during construction. Do not close National Avenue until the signed detour is posted.

Detour W. National Avenue traffic using a combination of W. Greenfield Avenue and S. 70<sup>th</sup> Street as detailed in the plans.

The eastbound travel lanes of W. Greenfield Avenue (west of W. National Avenue) will be allowed to be closed during the nighttime hours of 9:00 PM and 6:00 AM over a seven calendar day period to construct storm sewer, traffic signal loop replacement and roadway milling and overlaying as detailed in the plans. The traffic signal at W. Greenfield Avenue and W. National Avenue shall be placed in all flashing red mode during nighttime work. Provide flagging operations to maintain two-way traffic in the westbound lanes of W. Greenfield Avenue during nighttime work. Re-open W. Greenfield Avenue eastbound lanes to through traffic by 6:00 AM each morning.



## **Interim Completion Requirements**

Complete all work necessary to open W. National Avenue and W. Greenfield to a minimum of one lane of through traffic in each direction by July 31, 2023, in advance of the opening of the 2023 Wisconsin State Fair. Outside/parking lane closures will be allowed along W. National Avenue and W. Greenfield Avenue until the final completion date of August 11, 2023, to complete all remaining permanent signing, pavement marking, streetscaping and landscaping improvements.

If the contractor fails to complete Stage 1 work to open one lane of traffic in both directions on W. National Avenue and W. Greenfield Avenue by July 31, 2023, the department will assess the contractor \$2,185 in interim liquidated damages for each calendar day that this work remains incomplete after 12:01 AM August 1, 2023. An entire calendar day will be charged for any period of time within a calendar day that this work remains incomplete beyond 12:01 AM.

## **Work Zone Restrictions**

Do not place any traffic control devices, construction staging signing or detour signing within 50' of the railroad crossings of W. National Avenue and W. Greenfield Avenue located west of the project limits.

## **Northern Long-eared Bat (*Myotis septentrionalis*)**

Northern long-eared bats (NLEB) have the potential to inhabit the project limits because they roost in trees, bridges and culverts. Tree clearing areas specified in plans are not considered suitable summer habitat for NLEB and no tree clearing restrictions apply to those locations. Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the Federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work and notify the engineer and the WisDOT Regional Environmental Coordinator (REC), Tim McElmeel at (262) 548-6458.

Tree clearing is limited to that which is specified in the plans. If additional trees with a 3-inch or greater diameter at breast height (dbh) need to be removed, no tree clearing shall occur without prior approval from the engineer, following coordination with the WisDOT REC. Additional tree removal beyond the area originally specified will require consultation with the United States Fish and Wildlife Service (USFWS) and may require a bat presence/absence or visual emergency survey. Notify the engineer if additional clearing cannot be avoided to begin coordination with the WisDOT REC. The WisDOT REC will initiate consultation with the USFWS and determine if a survey is necessary.

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.

## **4. Traffic.**

Perform all work according to the requirements of standard spec 643, as detailed in the traffic control plans and as hereinafter described.

Designate an individual responsible for traffic control maintenance including access of local traffic, and 24-hour emergency traffic control repair. Provide the name and telephone number of this individual to the engineer.

Conduct operations in a manner that minimizes interference to traffic movements and access to adjacent business and residential properties within the construction work zone.

The parking and storage of construction vehicles, equipment and material shall be approved by the engineer and shall be restricted to the minimum required and the minimum time necessary at the work sites to prosecute the work. At such locations, the material and equipment involved shall not constitute a hazard to the traveling public.

The Milwaukee County Transit System (MCTS) has bus operations on National Avenue that will be impacted during construction. Refer to "Notice to Contractor – Milwaukee County Transit System" specification for MCTS coordination requirements.

## **Pedestrian Access**

Maintain access to properties in the construction zone by keeping the sidewalk open while the roadway is being reconstructed. When the sidewalk is replaced, coordinate with the owner of the properties a time for closure or provide temporary access using ADA compatible devices and materials. Maintain pedestrian access to businesses throughout the work zone on existing sidewalk or other ADA compliant surfaces until the new roadway pavement is constructed. Route pedestrians on the newly constructed outside lane improvements while sidewalk is being constructed. Provide ADA compliant curb ramps and temporary pedestrian surfaces across work zone as detailed in the plans to maintain pedestrian access.

## **Emergency Vehicle Access**

Maintain emergency vehicular access at all times to roadways located within the project limits.

## **Construction Contact Information**

Provide City of West Allis Police Department with a 24-hour emergency contact number for when traffic control maintenance is required.

## **Local Vehicle Access**

Close driveways for a maximum of 7 calendar days to construct new access approaches. Prior to removal or closing of driveway access, provide 48-hour notice to the occupant and owner of the premises.

## **Business Access**

Contact businesses which have entrances within the project limits seven calendar days prior to performing work which may affect the entrances. Confirm the closure with the property owner two days prior to use. If a business has two driveways, keep one open while constructing the other driveway. If a property has one driveway, construct one half at a time or coordinate closure with the property owner.

## **5. Holiday and Special Event Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying W. National Avenue or W. Greenfield Avenue 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 and special event periods:

- From noon Friday, May 26, 2023 to 6:00 AM Tuesday, May 30, 2023 for Memorial Day;
- From noon Friday, June 30, 2023 to 6:00 AM Wednesday, July 5, 2023 for Independence Day.

stp-107-005 (20210113)

## **6. Utilities.**

This contract does not come under the provision of Administrative Rule Trans 220.

There are underground and overhead utility facilities located within the project limits and there are known utility adjustments required for this construction project. Coordinate construction activities with a call to Digger's Hotline or a direct call to the utilities which have facilities in the area as required per statutes.

Bidders are advised to contact each utility company listed in the plans prior to preparing their bids, to obtain current information on the status of existing and new utility relocation work specified herein.

If a conflict with a discontinued utility facility is encountered, contact the appropriate utility owner/representative for instructions on proper removal and disposal of said facility prior to disturbing.

## **AT&T Wisconsin**

AT&T has underground telecommunication facilities within the project limits.

- Proposed storm, sanitary and water main work cross AT&T fiber optic conduit and cable at the following locations:
  - Station 6+63, 0' LT, Station 6+88 0' LT, Station 6+92, 11' LT, Station 6+96, 23' LT, Station 10+00, 0' LT, Station 10+66, 13' LT, Station 11+00, 13' LT, Station 11+96, 0' LT, Station 12+00, 18' LT, Station 12+02, 9' LT, Station 12+34, 12' LT, Station 12+82, 12' LT, Station 13+95, 12' LT

AT&T has identified these facilities as not in conflict and they will remain in place as is. It is expected the contractor will work safely around these facilities left within the work zone.

The following work is proposed by AT&T during construction:

- AT&T will adjust the existing manhole frame to finished grade at Station 12+04, 11' LT.
- AT&T will coordinate with contractor to protect existing fiber optic conduit and cable at the proposed water, sanitary and storm sewer improvement crossings being performed as part of the contract work at the following approximate locations.
  - Station 6+63, 0' LT, Station 6+88 0' LT, Station 6+92, 11' LT, Station 6+96, 23' LT, Station 10+00, 0' LT, Station 10+66, 13' LT, Station 11+00, 13' LT, Station 11+96, 0' LT, Station 12+00, 18' LT, Station 12+02, 9' LT, Station 12+34, 12' LT, Station 12+82, 12' LT, Station 13+95, 12' LT

Work planned during construction is anticipated to take one working day for each adjustment and will need to be coordinated with the contractor's schedule of operations. Provide a minimum 7 working day advance notice to AT&T for when the site will be available for this work.

## **We Energies Gas Operations**

We Energies Gas Operations has facilities in the project area that conflict with the project improvements. The following work will be performed by We Energies forces prior to construction:

- The existing gas meter at Station 9+11; 32.5' RT will be relocated prior to construction to 8+85; 35' RT, south of the southern proposed sidewalk and clear of pedestrian traffic obstruction.

Work planned prior to construction is scheduled to begin on December 5, 2022 and is estimated to take 10 working days to complete.

We Energies will perform valve adjustment work during construction at the following locations:

- Service valve at Station 6+80; 30' LT
- Service valve at Station 7+80; 30' LT
- Gas valve V13073 at Station 7+87; 36' RT
- Service valve at Station 8+60; 30' LT
- Service valve at Station 10+11; 28' RT
- Gas valve V20120 at Station 11+27; 39' RT
- Service valve at Station 12+11; 30' RT
- Service valve at Station 12+27; 30' RT
- Service valve at Station 12+88; 34' RT
- Service valve at 1 Station 3+84; 29' RT
- Gas valve V20199 at Station 13+93; 27' RT

The valve adjustments during construction are estimated to take one working day for each adjustment and need to be coordinated with the contractor's schedule of operations. Provide a 14 to 16 calendar day notice before the work site is anticipated to be available for adjustment work. Provide a separate follow up notice, for each location, no less than 3 working days before the work site is anticipated to be available for adjustment work. Contact Adam Kelly at [adam.kelly@we-energies.com](mailto:adam.kelly@we-energies.com) or (414) 940-9127 to coordinate adjustments.

We Energies has facilities that have been discontinued at the following locations:

- Gas service line crossing W National Avenue centerline at approximately Station 6+69.
- Gas service line crossing W National Avenue centerline at approximately Station 7+23.
- Gas service line crossing W National Avenue centerline at approximately Station 7+81.

Any facilities not explicitly identified as being relocated or removed have been deemed to be not in conflict and will remain in place as is. It is expected that contractors will work safely around any facilities left within the work zone.

It is imperative that the highway contractor contact We Energies before removing any gas facilities to verify that they have been discontinued and carry no natural gas. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification.

We Energies Gas Dispatch, #1 (800) 261-5325

The following utilities have facilities within the project area. However, no conflicts have been identified.

**Charter Communications**

**Milwaukee Metropolitan Sewerage District (MMSD) – Combined Interceptor Sewer**

**Verizon – Communications**

**We Energies Electric**

**West Allis – Sanitary**

**West Allis – Water**

**7. Hauling Restrictions.**

At all times, conduct operations in a manner that will cause a minimum inconvenience to the free flow of vehicles on roadways carrying W. National Avenue, W. Greenfield Avenue, S. 62<sup>nd</sup> Street, and side road traffic. No equipment shall travel on intersecting minor side roads outside of the project limits without approval from the engineer.

When hauling across any public roads, provide the necessary flagging and signing to control the construction equipment movements. The flagging operations shall not impede traffic flow on the public roads.

**8. Information to Bidders, WPDES General Construction Storm Water Discharge Permit.**

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Michael Baird at (262) 548-5918. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

**9. Erosion Control.**

Prepare and submit an erosion control implementation plan (ECIP) for the project including borrow sites, material disposal sites, dust control, and dewatering according to Chapter TRANS 401 requirements. The erosion control implementation plan shall supplement information shown on the plans and shall not reproduce it. The erosion control implementation plan will identify how the contractor intends to implement the project's erosion control plan.

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide 1 copy of the ECIP to Management Consultant and 1 copy of the ECIP to the WDNR Liaison, Kristina Betzold, at [Kristina.Betzold@wisconsin.gov](mailto:Kristina.Betzold@wisconsin.gov), 2300 North Dr. Martin Luther King Jr. Drive, Milwaukee, WI 53212, (414) 507-4946. Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

Re-topsoil of graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as designated by the engineer, within 5 calendar days after placement of topsoil. If graded areas are left exposed for more than 14 calendar days, seed those areas with temporary seed

Restrict the removal of vegetative cover and exposure of bare ground to the minimum amounts necessary to complete construction. Restoration of disturbed soils should take place as soon as conditions permit. If sufficient vegetative cover will not be achieved because of late season construction, the site must be properly winterized.

When performing roadway cleaning operations, use equipment having vacuum or water spray mechanism to eliminate the dispersion of dust. If vacuum equipment is employed, it shall have suitable self-contained particulate collectors to prevent discharge from the collection bin into the atmosphere.

If dewatering is required for any reason, the water must be pumped into a properly selected and sized dewatering basin before the clean/filtered water is allowed to enter any waterway or wetland. The basin must remove suspended solids and contaminants to the maximum extent practicable. A properly designed and constructed dewatering basin must take into consideration maximum pumping volume (gpm or cfs) and the sedimentation rate for soils to be encountered and meet all other requirements of WDNR Technical Standard 1061.

All temporary stockpiles must be in an upland location and protected with erosion control measures. Stockpiled soil shall be protected against erosion. If stockpiled material is left for more than 14 calendar days, seed the stockpile with temporary seed.

Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in the construction area in a manner that would allow them to enter a wetland or waterbody as a result of spillage, natural runoff, or flooding. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the State Duty Officer at 1 (800) 943-0003.

## **10. 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 sites:

1. Station 13+80 to 14+75, beyond project limits right (COD Plumbing Supply, Inc. 6203 W. National Ave., WDNR BRRTS No. 02-41-174765, Open ERP Site and Viking Land Mobile Communications, Inc., 1421 S. 62nd St., WDNR BRRTS No. 03-41-114435, Closed LUST Site).

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:

Andrew Malsom  
WisDOT SE Region  
141 NW Barstow St.  
Waukesha, WI 53187  
(262) 548-6705

stp-107-100 (20050901)

## **11. Notice to Contractor – Procurement Time for Brick Pavers.**

Installation of custom brick pavers is required with this project. Lead time to procure the specified paver is approximately 8 weeks. Coordinate ordering an adequate number of pavers, that accounts for waste resulting from any necessary cutting of pavers, with adequate lead time to perform the work within the contract timeframe.

## 12. Notice to Contractor – Taped Cable Splices.

Splices shall be a taped splice as described below. Taped splices employing field-applied rubber, or synthetic rubber tape covered with plastic tape are required.

The rubber tape shall meet the requirements of ASTM D 4388 and the plastic tape should comply with Mil Spec. MIL-I-24391 or Fed. Spec. A-A-55809. Heat shrinkable tubing shall be heavy-wall, self-sealing tubing rated for the voltage of the wire being spliced and suitable for direct-buried installations. The tubing shall be factory coated with a thermoplastic adhesive-sealant that will adhere to the insulation of the wire being spliced forming a moisture and dirt-proof seal. Additionally, heat shrinkable tubing for multi-conductor cables, shielded cables, and armored cables shall be factory kits designed for the application.

Connections of cable conductors shall be made using crimp connectors utilizing a crimping tool designed to make a complete crimp before the tool can be removed. All splices and terminations shall be made according to the manufacturer's recommendations and listings.

A taped splice shall be made in the following manner:

Bring the cables to their final position and cut so that the conductors will butt. Remove insulation and the jacket allowing for bare conductor of proper length to fit compression sleeve connector with ¼ inch (6 mm) of bare conductor on each side of the connector. Prior to splicing, the two ends of the cable insulation shall be penciled using a tool designed specifically for this purpose and for the cable size and type. Do not use emery paper on splicing operation since it contains metallic particles. The copper conductors shall be thoroughly cleaned. Join the conductors by inserting them equidistant into the compression connection sleeve. Test the crimped connection by pulling on the cable. Scrape the insulation to assure that the entire surface over which the tape will be applied (plus 3 inches (75 mm) on each end) is clean. After scraping, wipe the entire area with a clean lint-free cloth. Do not use solvents. Apply high-voltage rubber tape one-half lapped over bare conductor. This tape should be tensioned as recommended by the manufacturer. Voids in the connector area may be eliminated by elongating the tape, stretching it just short of its breaking point. Throughout the rest of the splice, less tension should be used. Always attempt to exactly half-lap to produce a uniform buildup. Continue buildup to 1-1/2 times cable diameter over the body of the splice with the ends tapered a distance approximately 1 inch (25 mm) over the original jacket. Cover rubber tape with two layers of vinyl pressure-sensitive tape one-half lapped. Do not use glyptol or lacquer over vinyl tape as they react as solvents to the tape. No further cable covering, or splice boxes are required. Heat shrinkable tubing shall be installed following manufacturer's instructions. Direct flame heating shall not be permitted unless recommended by the manufacturer. Cable surfaces within the limits of the heat-shrink application shall be clean and free of contaminants prior to application.

Taped splices shall be incidental to the cable installation. This includes all materials, tools, and labor to make a complete and working splice.

## 13. Milwaukee County Transit System Coordination.

The Milwaukee County Transit System (MCTS) operates bus routes within and/or directly adjacent to the construction limits. Routes 18 and 54 use a combination of W. National Avenue and W. Greenfield Avenue and will be impacted by project construction.

### Impacts to MCTS Routing

Invite MCTS to all coordination meetings between the contractor, the department, local officials and business stakeholders to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Notify MCTS at least 10 business days prior to beginning project work to provide advance notice of potential service impacts.

### Impacts to MCTS Signs and Posts

Notify MCTS of work impacting MCTS signs and posts in advance 5 or more business days. MCTS signs include "Bus Stop" and turn disc signs. MCTS signs are mounted on MCTS posts; and on assets owned by others including streetlights, traffic regulators, crosswalk and street signposts. MCTS shall be responsible for MCTS sign and post removal and installation, with the contractor granting access to MCTS personnel to perform such work. Signs stating "No Parking Bus Stop" are the under the ownership and responsibility of the City of West Allis.

### Non-detour Service Suspension at MCTS Bus Stops

Occasions may arise when work requires neither a detour nor the physical alteration of MCTS bus stop assets, but out of passenger safety requires MCTS to temporarily suspend service at a bus stop location. Notify MCTS in advance 5 business days of site-specific occasion, and MCTS will sign appropriately to instruct passengers to board at a secondary location. Notify MCTS upon completion of work. MCTS will resume service to any suspended bus stop locations when it is safe to do so.

MCTS contacts:

David Locher  
Milwaukee County Transit System  
1942 N. 17th St.  
Milwaukee, WI 53205  
Phone: (414) 343-1727  
[dlocher@mcts.org](mailto:dlocher@mcts.org)

Armond Sensabaugh  
Milwaukee County Transit System  
1942 N. 17th St.  
Milwaukee, WI 53205  
Phone: (414) 343-1728  
[asensabaugh@mcts.org](mailto:asensabaugh@mcts.org)

#### **14. Coordination with Businesses and Residents.**

The contractor shall arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week before the start of work under this contract and hold two meetings per month thereafter. The contractor shall arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least two weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

#### **15. Public Convenience and Safety.**

*Revise standard spec 107.8(6) as follows:*

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 7:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer

stp-107-001 (20060512)

The eastbound travel lanes of W. Greenfield Avenue (west of W. National Avenue) will be allowed to be closed during the nighttime hours of 9:00 PM and 6:00 AM over a 7 calendar day period to construct storm sewer, traffic signal loop replacement and roadway milling and overlaying as detailed in the plans. Notify the engineer 5 working days prior to performing proposed nighttime work to coordinate lane closures with the City of West Allis.

#### **16. Weekly Coordination Meeting.**

The contractor shall arrange and conduct weekly meetings between the department, local officials, utilities and subcontractors to discuss the project schedule of operations, traffic control, erosion control and any unresolved conflicts. The first meeting shall be held prior to the start of work under this contract.

## 17. Municipality Acceptance of Sanitary Sewer and Water Main Construction.

Both the department and City of West Allis 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 West Allis.

stp-105-001 (20140630)

## 18. Referenced Construction Specifications.

Construct the work enumerated below conforming to the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, and the latest edition of the City of West Allis Addendum. 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. The City of West Allis Addendum is available at:

<https://www.westalliswi.gov/DocumentCenter/View/1464/Sewer-and-Water-Specifications-Addendum>

Conform to the referenced construction specifications for the following:

Sanitary sewer and water main work.

stp-105-002 (20130615)

## 19. City of West Allis Water Appendix & Testing

### I. Water Main Pipe Material

#### A. Ductile Iron.

The type of water main pipe to be used on this contract shall be as noted on the plans. Ductile Iron Pipe shall conform to AWWA C-151 Special Class 53 and of the size shown on the plans. The pipe shall have bell and spigot ends designed for a Tyton rubber gasket push-on-joint. All ductile iron pipe and fittings shall be coated as specified in Chapter 8.18.3 of the Standard Specs. All metal pipe, fittings and materials shall be encased in a double layer of polyethylene wrap as specified in Chapter 8.21.0 of the Standard Specs.

#### B. PVC/HDPE/Non-Metallic.

The type of water main pipe to be used on this contract shall be as noted on the plans. The size of the pipe shall be as shown on the plans. PVC Pipe shall be C-900 DR 18 or less in conformance with AWWA C-900, ASTM D-3139, and ASTM F-477 for sizes 4" through 12". PVC mains larger than 12" shall be C-905 DR 18 or less in conformance with AWWA C-905, ASTM D-3139, and ASTM F-477. The pipe shall have integral elastomer bell and spigot ends designed for a rubber gasket push-on-joint. CertaLok PVC water main pipe shall conform to AWWA C-900 DR 18 and installation shall be completed under AWWA C-605. High-Density Polyethylene (HDPE) pipe for directional drilling projects shall be DR 11, ductile iron pipe size (DIPS), and pressure class 200 conforming to AWWA C-906. Ductile iron fittings coated as specified in Chapter 8.18.3 of the Standard Specs shall be used with Megalug retainer glands specifically rated for use with selected non-metallic pipe. All metallic fittings, standpipes, and other appurtenances used with non-metallic water main shall be covered in a double, watertight layer of polyethylene wrap, as specified in Chapter 8.21.0 of the Standard Specs, before bedding and backfilling.

#### 1. Tracer Wire

See page 4.W8.

#### 2. Restrained Bell-Spigot Joints

All PVC bell restraints shall be of a rodded variety approved in writing by the engineer. No push-on gasket restraints shall be allowed without an accompanying gland-to-gland fitting spanning the bell.



## II. Hydrant Leads

All hydrant leads shall be as specified on the plans. Non-metallic leads shall, at a minimum, conform to AWWA C-900 DR 14. Ductile iron hydrant leads shall be encased in double polyethylene wrap. All types of leads shall be buttressed at the tee and hydrant ends with hardwood blocks and all joints shall be restrained. The hydrant itself shall be set on concrete or brick blocks. This work shall be incidental to the cost of the hydrant or lead.

## III. Hydrants and Valves

The contractor shall install hydrants with the steamer nozzle section perpendicular to the street where practical. The cost of modifying the hydrants shall be included in the unit price bid for installing hydrants. The contractor shall be responsible for installing the hydrant so that the center of the lowest nozzle, the steamer nozzle, is a minimum of 18" from the Plan grade (top of curb grade) and no greater than 24" from the Plan grade. In addition, the flange of the hydrant should not be below grade. The contractor shall be responsible for tightening nuts and bolts on all valves and hydrants in this contract.

The contractor shall supply all hydrants and valves. See "Contractor to Supply All Materials" in the special provisions.

## IV. Fittings

All fittings shall be cement lined, ductile iron compact fittings furnished with mechanical joints conforming to ANSI/AWWA C153 and C111, according to Section 8.22.0 of the Standard Specs and coated according to Section 8.18.3 of the Standard Specs. All fittings shall be 350 psi rated water working pressure. Megalug retainer glands shall be used on all fittings. Glands shall be specifically rated for the main and lead material which is being used. All fittings shall be set and buttressed with concrete and/or hardwood blocks. Where sleeves are required, the contractor shall use solid iron sleeves, dual purpose sleeves, Romac Alpha couplings or Hymax Grip couplings or engineer approved equal for both metallic and non-metallic mains.

Where shown on the plans or as approved in writing by the engineer, restraint strapping shall follow Section 4.9.0 of the Standard Specs with number and size of retaining rods recommended by pipe restraint manufacturer for the type and size of pipe used. Metallic water main bell-spigot joints may only use restraining glands in lieu of rodded bell restraints when approved in writing by the engineer.

All fittings and connections to appurtenances shall use coated, corrosion resistant nuts and bolts (Cor-Blue), which will be incidental to the cost of the fittings. All fittings shall be encased in double polyethylene wrap per Chapter 8.21.0 of the Standard Specs.

## V. Service Saddle / Water Service Connections

The contractor shall tap all connections. All pipe services and connections shall be made according to Chapter 5.5.0 of the Standard Specifications for Sewer & Water Construction in Wisconsin and the AWWA C600-93. The cost of all taps shall be included in the price bid for linear feet of service.

All water service (re)connections 2" and smaller, as well as air vents, for metallic\* and non-metallic pipe shall be wet tapped under pressure using a one-piece, double-bolt, stainless steel service saddle clamp conforming to Smith-Blair 372, with AWWA/CC taper thread or equal as approved in writing by the engineer. Services saddles shall be furnished by the contractor as incidental to the service.

\*1" water services on metallic pipe shall be direct tap unless approved by the engineer.

Services larger than 2" that are installed under pressure require an engineer-approved 2-piece stainless steel, heavy-duty tapping sleeve with slip-through bolts and a resilient wedge gate valve. Approved stainless steel tapping sleeves include Smith-Blair 665 or Romac SST III, both with flanged outlet.

The contractor shall refer to the manufacturer's instructions for the installation of a specific sleeve/tap.

The drilling machine shall operate with a cutting tool classified as a core-cutting tool of the shell design that retains the coupon cut while penetrating the pipe wall and must have a throat depth that exceeds the PVC pipe wall thickness. Twist drill bits and auger bits shall be prohibited. It shall provide a ratchet handle on the boring bar, and a feed rate that is controlled and accomplished with a feed nut for feed screw and yoke.

Saddle sleeves shall not be placed closer than 1 foot from the bell end of the pipe, fittings, or additional taps.

Tapping sleeves shall not be placed closer than 4 feet from the bell end of the pipe, fittings, or additional taps.

VI. Copper Water Service

The price bid for Copper Water Service shall include supplying the copper service pipe, installing the tap on the main, curb stops and boxes, the cost of installation and any incidentals required to complete the installation of the water service as shown on the Plan. Pay measurement for water services shall extend horizontally from the center of the water main to the curb stop. The copper service pipe used on the house side of the curb stop for reconnection to the existing private service line is incidental to the Water Service Installation.

When reconnecting to existing lead services, a No-Contact Lead Pak compression coupling shall be used to prevent direct contact of the lead plumbing line with other metallic water system components. An approved product is by The Ford Meter Box Company.

All copper tubing for water service must be re-rounded with re-rounding tool after cutting pipe.

Where the existing curb stop is located in the middle to back of walk, and where the Plan specifies that a new curb stop shall be installed in the terrace area 1 foot from the front of walk, tail pieces that exceed 2 feet will be paid as Copper Water Service. In these situations, pay measurement will be from the new curb stop to the connection point, minus 2 feet, as indicated on the Plan.

VII. Water Main Joint Restraints

See the end of this appendix for thrust restraint diagrams for the proposed water mains. All joints within the calculated length must be restrained. If the distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings. In addition to tie rods and retainer glands ("MegaLugs"), restrained gaskets or pipe will be considered acceptable such as "Fast-Grip", "Fieldlok", "TR Flex", "Certa-Lok" or approved equal.

VIII. Water Shut Offs

As stated in the Standard Specifications for Sewer and Water Construction 4.14.2 – Notice to Water Utility – "The contractor shall give a minimum of 48 hours' notice to the Water Utility for a request for a water shut-off. The Water Utility shall determine the time and duration of the shut-off. The contractor shall continue the work to completion and restore service to the interrupted main. No claim for extra compensation will be considered for overtime due to the hours of shut-off."

This is applicable to all water service and water main reconnects.

IX. Insulation Around Water Mains and Appurtenances

The contractor shall provide and install extruded polystyrene rigid insulation with a minimum of 25 PSI compressive strength, consisting of two layers of 2 inch thick by 6 feet long by the width of the trench, between storm sewer and structure installations and all water mains and services at all locations shown on the plans, at any other location where a water main or service is exposed, or as directed by the engineer. Insulation shall also be placed under water mains and services where they cross over the storm sewer and have a separation of less than 12 inches. The cost of which shall be included in the storm sewer relay, repair, extension or structure, or water main relay, repair, or extension bid items.

If the vertical separation is greater than 12 inches and the service or main has a minimum of 6 feet of cover, the insulation need not be installed unless shown on the plans. Unless otherwise noted by the engineer, insulation shall be considered incidental to the work.

X. Flushing

A. Requirements for Flushing.

Prior to flushing any water from the newly installed water main or existing water main system, the contractor shall adhere to the following requirements:

1. The contractor shall apply for a WDPES Permit through the Wisconsin Department of Natural Resources separately of the City of West Allis WDPES Permit. Contractor shall follow all requirements set forth within the WDPES Permit and the contractor is solely liable for any violations of the requirements set forth within the permit by the Wisconsin Department of Natural Resources. A copy of the permit shall be supplied to the city as record that the contractor has successfully received an approved permit from the Wisconsin Department of Natural Resources.

2. The contractor may elect to discharge flush water into the sanitary sewer system. Discharging to the sanitary sewer shall not be permitted during a rain event or within 24 hours of a 1 inch or greater rainfall event within MMSD's service area. Discharge into the sanitary sewer system requires a minimum of 3 days' notice to MMSD; The contractor shall contact Micki Klappa-Sullivan at 414-225-2178 or mklappasullivan@mmsd.com and provide the date(s) of the planned flushing event and an approximation of how much water will be discharged into the sanitary sewer system.

**B. Clearing the Main of Heavily Chlorinated Water.**

After the applicable retention period, heavily chlorinated water should not remain in prolonged contact with pipe. In order to prevent damage to the pipe lining or corrosive damage to the pipe itself, the heavily chlorinated water shall be flushed from the main until chlorine measurements show that the concentration in the water leaving the main is no higher than that generally prevailing in the distribution system or is acceptable for domestic use. Prior to final flushing and before connection to the existing main, the contractor shall initially flush the new main using the temporary vents and filler pipes specified. The required velocity in a water main being flushed shall be 2.5 feet/sec. This equates to the following required flows:

Water Main Diameter (Inches)	Flow Required to Produce 2.5 ft/s (GPM)
6	200
8	400
10	600
12	900
16	1600

**C. Disposal of Heavily Chlorinated and Flushing Water.**

The Wisconsin Department of Natural Resources prohibits discharges of chlorinated and/or contaminated water into any surface waters of the State whether directly or indirectly through storm sewers. To be in compliance with these regulations, the contractor shall apply for a WPDES and follow all requirements of the permit unless discharging into the sanitary sewer system following the notices above to MMSD. Appendix B of AWWA Standard 651 contains a list of neutralizing agents and their required dosages.

In addition to the above, the contractor shall take grab samples a minimum of 2 times per day during flushing. They shall be taken after the neutralizing chemical has been introduced to the flushing water and at the onset of the initial flushing. The contractor, at their expense, shall have these grab samples analyzed for the following:

1. Total Suspended Solids (mg/L)
2. pH (s.u.)
3. Oil and Grease (mg/L)
4. Dissolved Oxygen (mg/L)
5. Total Residual Chlorine (mg/L)

Copies of the reports above shall be furnished to the city and the city shall be provided any reports as required under the WPDES permit to both the city and to the Wisconsin Department of Natural Resources.

**XI. Bacteriological Tests (Safe Sample)**

**General Requirements:**

- A. Hydrostatic testing should be made according to Chapter 4.15.0 "Standard Specification for Sewer & Water Construction in Wisconsin" latest edition with the 2020 City of West Allis Addendum, 4.15.0 pg. 6.92.
- B. Disinfection testing should be made according to Chapter 4.16.0 "Standard Specification for Sewer & Water Construction in Wisconsin" latest edition with the 2020 City of West Allis Addendum, 4.15.0 pg. 6.93.

The contractor shall provide a 1-1/2" air vent assembly for all water mains equal to or less than 8" in diameter. The air vent assembly shall include a 1/2" smooth nose hose bib sample valve at approximately 3-4 feet above ground.

The contractor shall provide a 2" air vent assembly for all water mains greater than 8" in diameter. The air vent assembly shall include a 1/2" smooth nose hose bib sample valve at 3-4 feet above ground.

No "wet" connection greater than 20 feet shall be allowed without the written approval of the engineer in order to reduce the risk of contamination.

## XII. Disinfection Procedures when Cutting or Repairing Existing Mains

The following procedures apply when existing mains are wholly or partially dewatered. After the appropriate procedures have been completed, the existing main may be returned to service prior to completion of bacteriological testing in order to minimize the time customers are out of water. Leaks or breaks that are repaired with clamping devices while the mains remain full of pressurized water present little danger of contamination and require no disinfection.

### A. Trench Treatment.

When an existing main is opened, either by accident or by design, the excavation may contain standing water which may be contaminated from nearby sewers.

Liberal quantities of hypochlorite applied to open trench areas will lessen the danger from such pollution. Tablets have the advantage in such a situation because they dissolve slowly and continue to release hypochlorite as water is pumped from the excavation.

### B. Swabbing with Hypochlorite Solution.

The interior of all pipe and fittings (particularly couplings and sleeves) used in making the repair shall be swabbed or sprayed with a 1% hypochlorite solution before they are installed.

### C. Flushing.

Thorough flushing is the most practical means of removing possible contamination introduced during repairs. If valve and hydrant locations permit, flush toward the work location from both directions. Flushing shall be started as soon as the repairs are completed and shall be continued until discolored water is eliminated. Flushing shall follow the requirements for flushing stated in Section X of this appendix.

## XIII. Special Procedures for Tapping Sleeve Valves

This section shall be incidental to the contract.

Before a tapping sleeve is installed, the exterior of the main to be tapped shall be thoroughly cleaned, and the interior surface of the sleeve shall be lightly dusted with calcium hypochlorite powder.

Tapping sleeves are used to avoid shutting down the main to be tapped. After the tap is made, it is impossible to disinfect the annulus without shutting down the main and removing the sleeve. The space between the tapping sleeve and the tapped pipe is normally 1/2 in., more or less, so that as little as 100 mg/ft<sup>2</sup> of calcium hypochlorite powder will provide a chlorine concentration of over 50 mg/L.

## XIV. Tracer Wire Specifications / Installation Guide

### A. Materials.

All tracer wire and tracer wire products shall be domestically manufactured in the United States of America. All tracer wire shall have HDPE insulation intended for direct bury, color coated per APWA standard for the specific utility being marked.

#### 1. Tracer Wire

##### a. Open Trench

Tracer wire shall be #12 AWG Copper Clad Steel, High Strength with minimum 450 lb. break load, with minimum 30 mil HDPE insulation thickness.

##### b. Directional Drilling / Boring

Tracer wire shall be #12 AWG Copper Clad Steel, Extra High Strength with minimum 1,150 lb. break load, with minimum 30 mil HDPE insulation thickness.

c. Pipe Bursting / Slip Lining

Tracer wire shall be 7x7 Stranded Copper Clad Steel, Extreme Strength with minimum 4,700 lb. break load, with minimum 50 mil HDPE insulation thickness.

2. Connectors

- a. All mainline tracer wires must be interconnected in intersections, at mainline tees and mainline crosses. At tees, the three wires shall be joined using a single 3-way lockable connector. At crosses, the four wires shall be joined using a 4-way connector. Use of two 3-way connectors with a short jumper wire between them is an acceptable alternative.
- b. Direct bury wire connectors shall include 3-way lockable connectors and mainline to lateral lug connectors specifically manufactured for the use in underground tracer wire installation. Connectors shall be dielectric silicon filled to seal out moisture and corrosion and shall be installed in a manner to prevent any uninsulated wire exposure.
- c. Non-locking friction fit, twist on or taped connectors are prohibited.

3. Termination/Access

- a. All tracer wire termination points must utilize an approved tracer wire access box (above ground access box or grade level/in-ground access box as applicable), specifically manufactured for this purpose.
- b. All grade level/in-ground access boxes shall be appropriately identified with "water" in the cap and be color coded.
- c. A minimum of 2 feet of excess/slack wire is required in all tracer wire access boxes after meeting final elevation.
- d. All tracer wire access boxes must include a manually interruptible conductive/connective link between the terminal(s) for the tracer wire connection and the terminal for the grounding rod wire connection.
- e. Grounding Rod wire shall be connected to the identified (or bottom) terminal on all access boxes.

f. Service Laterals on Public Property

Tracer wire must terminate at an approved grade level/in-ground tracer wire access box, located at the edge of the road right-of-way, and out of the roadway.

g. Service Laterals on Private Property

Tracer wire must terminate at an approved above-ground tracer wire access box, affixed to the building exterior directly above where the utility enters the building, at an elevation not greater than 5 vertical feet above finished grade, or terminate at an approved grade level/in-ground tracer wire access box, located within 2 linear feet of the building being served by the utility.

h. Hydrants

Tracer wire must terminate at an approved above-ground tracer wire access box, property affixed to the hydrant grade flange. (Affixing with tape or plastic ties shall not be acceptable)

i. Long-Runs, More than 500 Linear Feet Without Service Laterals or Hydrants

Tracer wire access must be provided utilizing an approved grade level/in-ground tracer wire access box, located at the edge of the road right-of-way, and out of the roadway. The grade level/in-ground tracer wire access box shall be delineated using a minimum 40" polyethylene marker post, color coded per APWA standard for the specific utility being marked.

#### 4. Grounding

- a. Tracer wire must be properly grounded at all dead ends and stubs.
- b. Grounding of tracer wire shall be achieved by use of a drive-in magnesium grounding rod with a minimum of 20 feet of #12 black HDPE insulated copper clad steel or solid copper wire connected to the ground rod (minimum 1.5 lb.) specifically manufactured for this purpose and buried at the same elevation as the utility.
- c. When grounding the tracer wire at dead ends and stubs, the grounding anode shall be installed in a direction 180 degrees opposite of the tracer wire, at the maximum possible distance.
- d. When grounding the tracer wire in areas where the tracer wire is continuous and neither the mainline tracer wire or the grounding anode wire will be terminated at/above grade, install grounding rod directly beneath and in-line with the tracer wire. Do not coil excess wire from the grounding rod. In this installation method, the grounding rod wire shall be trimmed to an appropriate length before connecting to the tracer wire with a service to lateral lug connector.
- e. Where the ground rod wire will be connected to a tracer wire access box, a minimum of 2 feet of excess/slack wire is required after meeting final elevation.

#### B. Installation.

Tracer wire installation shall be performed in such a manner that allows proper access for connection of line tracing equipment, proper locating of wire without loss or deterioration of low frequency (512hZ) signal for distances more than 1,000 linear feet, and without distortion of signal caused by multiple wires being installed near one another.

Tracer wire systems must be installed as a single continuous wire, except where using approved connectors. No looping or coiling of wire is allowed. Any damage occurring during installation of the tracer wire must be immediately repaired by removing the damaged wire and installing a new section of wire with approved connectors. Taping and/or spray coating shall not be allowed. Tracer wire shall be installed at the bottom half of the pipe and secured (taped/tied) at 5' intervals.

Tracer wire must be properly grounded as specified. Tracer wire on all service laterals/stubs must terminate at an approved tracer wire access box located directly above the utility, at the edge of the road right-of-way, but out of the roadway. (See Tracer Wire Termination/Access)

At all mainline dead-ends, tracer wire shall go to the ground using an approved connection to a drive-in magnesium ground rod, buried at the same depth as the tracer wire. (See Grounding)

Mainline tracer wire shall not be connected to existing conductive pipes. Treat as a mainline dead-end, ground using an approved waterproof connection to a grounding rod buried at the same depth as the tracer wire. All service lateral tracer wires shall be a single wire, connected to the mainline tracer wire using a mainline to lateral lug connector, installed without cutting/splicing the mainline tracer wire.

In occurrences where an existing tracer wire is encountered on an existing utility that is being extended or tied into, the new tracer wire and existing tracer wire shall be connected using approved splice connectors and shall be properly grounded at the splice location as specified.

##### 1. Water System

- a. A mainline tracer wire must be installed, with all service lateral tracer wires properly connected to the mainline tracer wire, to ensure full tracing/locating capabilities from a single connection point.
- b. Lay mainline tracer wire continuously, by-passing around the outside of valves and fittings on the northern or eastern side of the water main.
- c. Tracer wire on all water service laterals must terminate at an approved tracer wire access box color coded blue and located directly above the service lateral at the edge of road right-of-way.
- d. Above-ground tracer wire access boxes will be installed on all fire hydrants.
- e. All conductive and non-conductive service lines shall include tracer wire.

C. Prohibited Products and Methods.

The following products and methods shall not be allowed or accepted:

1. Uninsulated tracer wire.
2. Tracer wire insulations other than HDPE or HMWPE.
3. Tracer wires not domestically manufactured.
4. Non-locking, friction-fit, twist-on or taped connectors.
5. Brass or copper ground rods.
6. Wire connections utilizing taping or spray-on waterproofing.
7. Looped wire or continuous wire installations, that has multiple wires laid side-by-side or near one another.
8. Tracer wire wrapped around the corresponding utility.
9. Brass fittings with tracer wire connection lugs.
10. Wire terminations within the roadway, i.e., in valve boxes, cleanouts, manholes, etc.
11. Connecting tracer wire to existing conductive utilities.

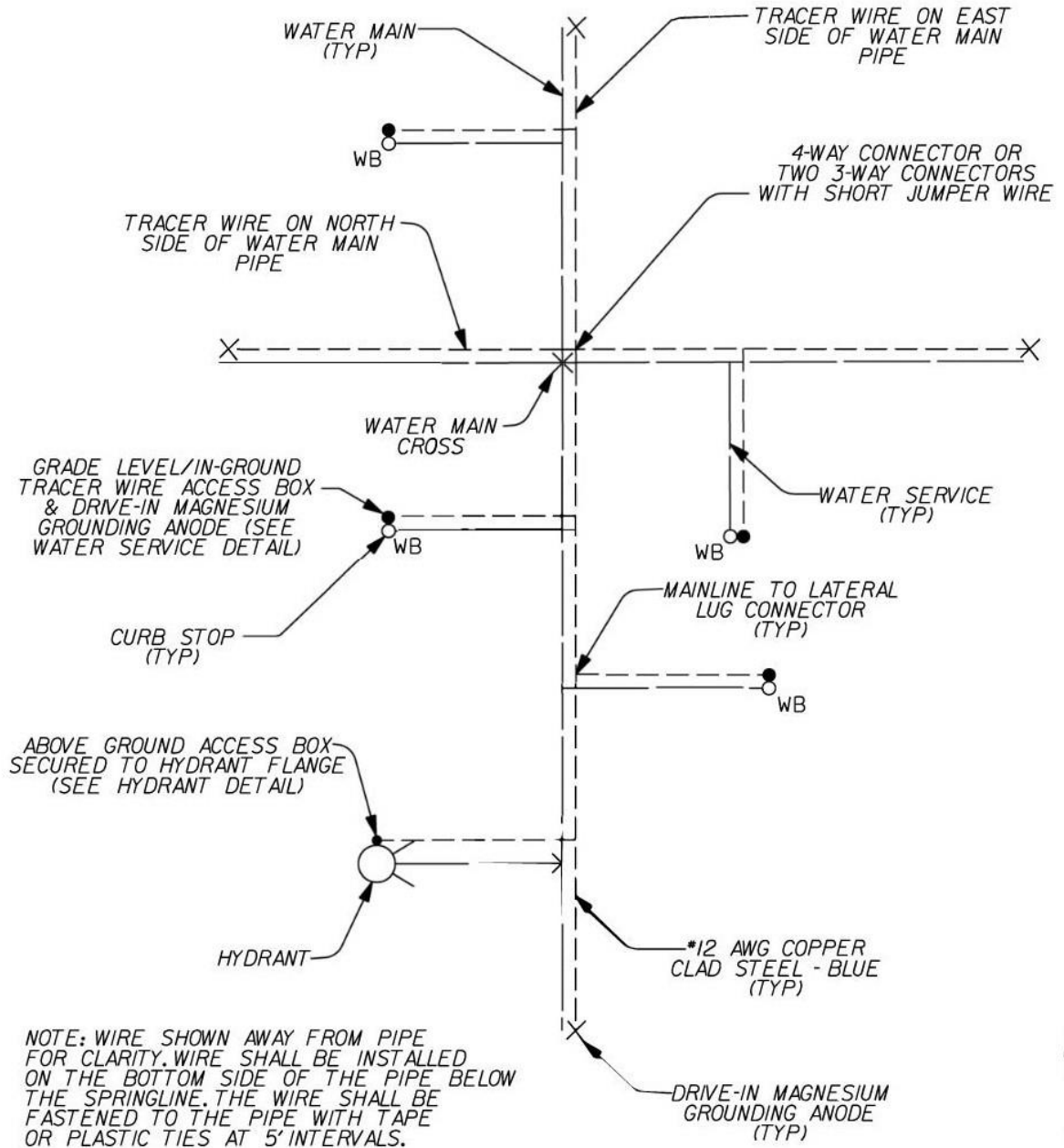
D. Testing.

All new tracer wire installations shall be located using typical low frequency (512Hz) line tracing equipment, witnessed by the contractor, engineer and facility owner as applicable, prior to acceptance of ownership.

This verification shall be performed upon completion of rough grading and again prior to final contract completion.

Continuity testing in lieu of actual line tracing shall not be accepted.

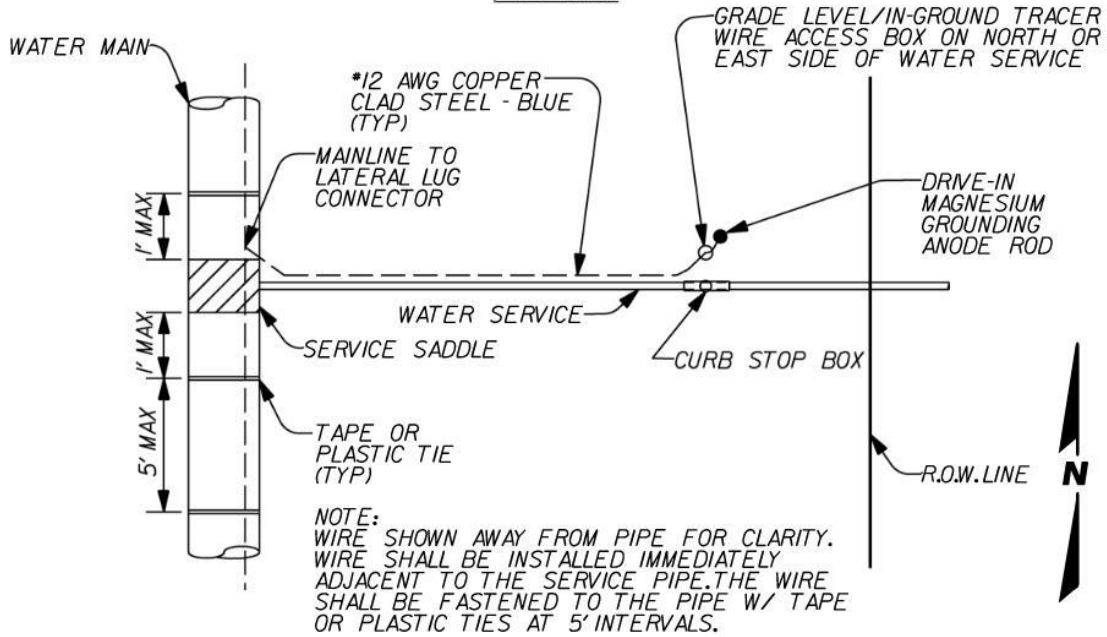
### WATER MAIN - TRACER WIRE DETAIL (NOT TO SCALE)



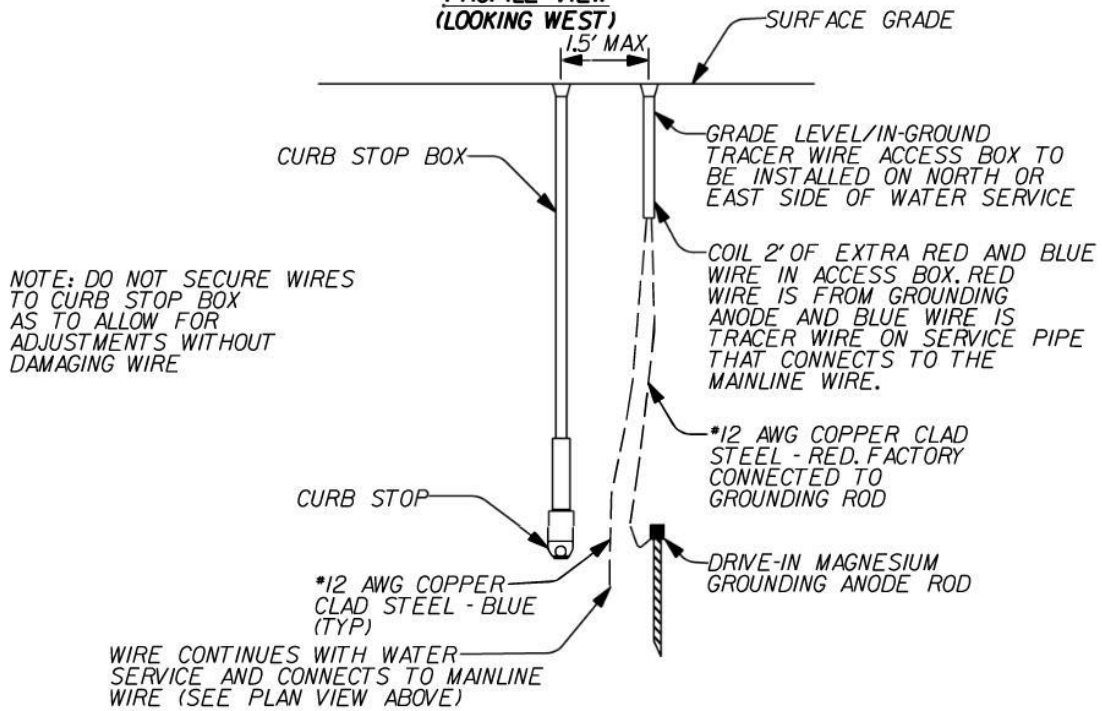


**WATER SERVICE - TRACER WIRE DETAIL  
(NOT TO SCALE)**

**PLAN VIEW**

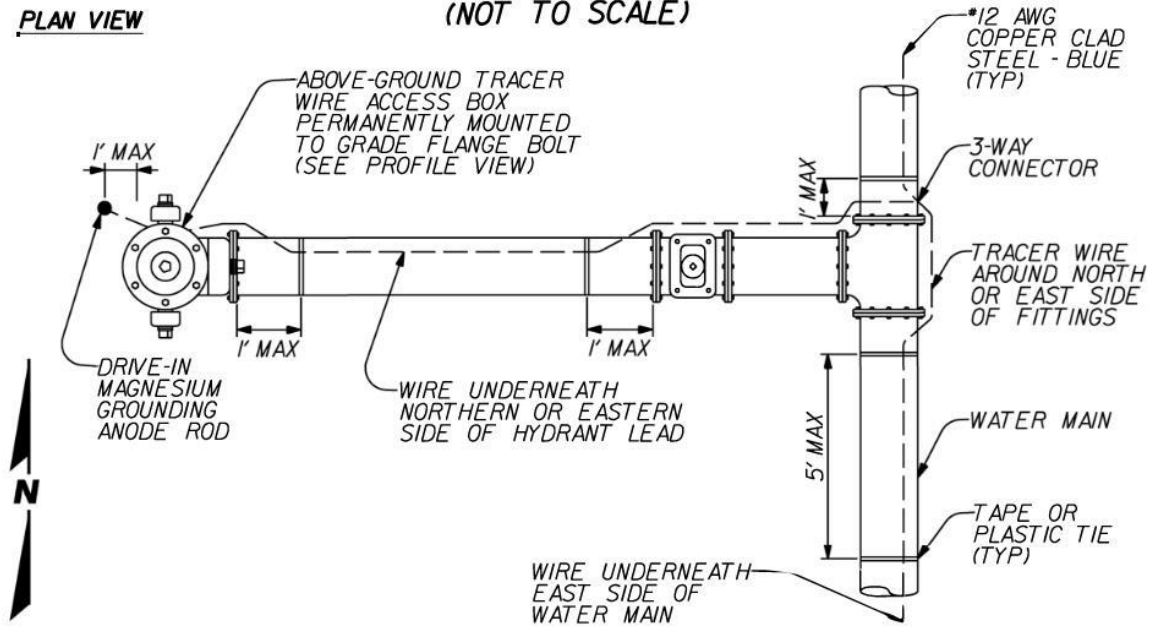


**PROFILE VIEW  
(LOOKING WEST)**

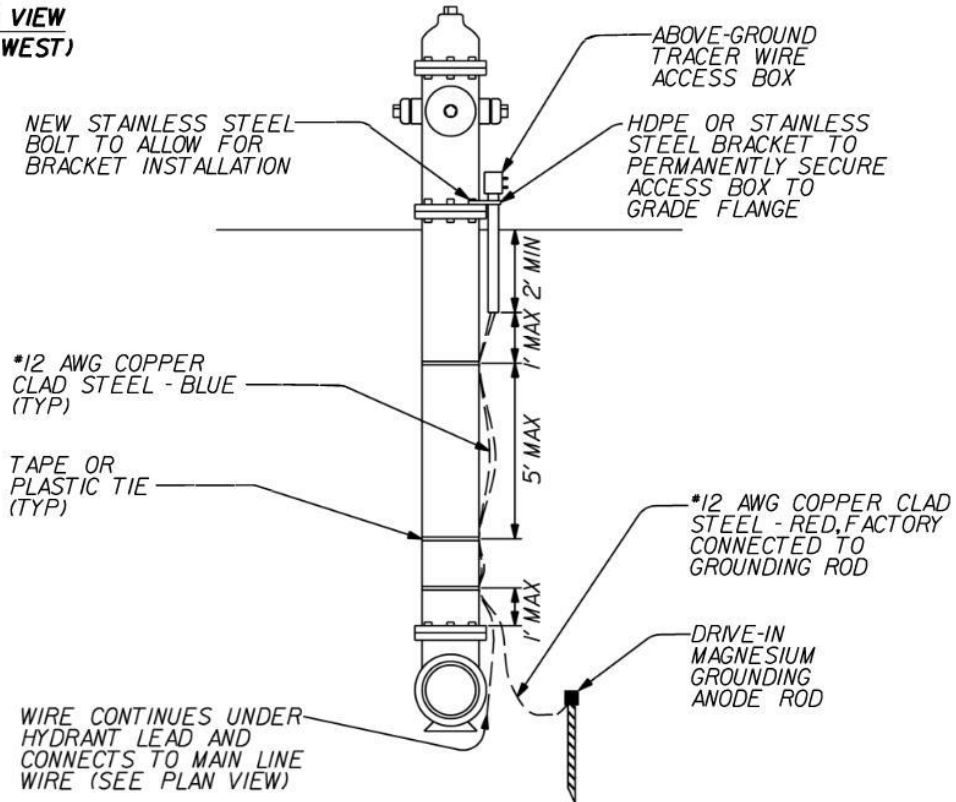


**HYDRANT BRANCH - TRACER WIRE DETAIL  
(NOT TO SCALE)**

**PLAN VIEW**

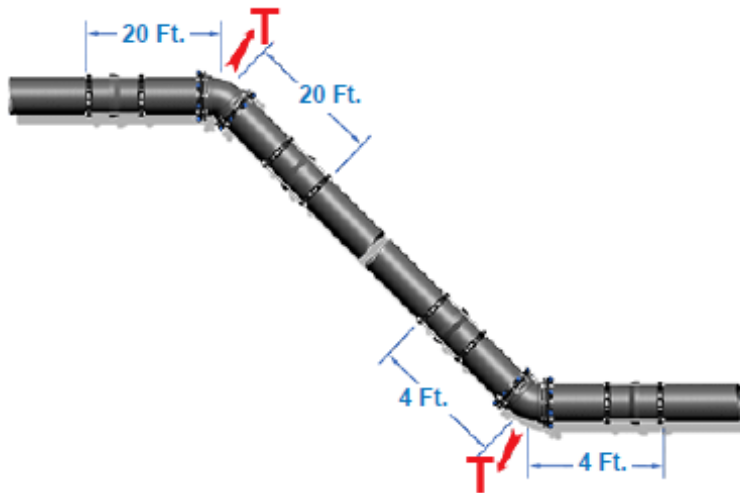


**PROFILE VIEW  
(LOOKING WEST)**

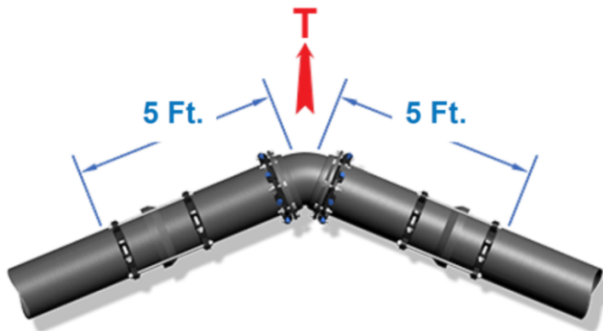


Joint Restrain Lengths for W National Ave  
DUCTILE IRON

6" Main with 2' drop with 45deg Vertical Bends



6" Main with 45deg Horizontal Bends

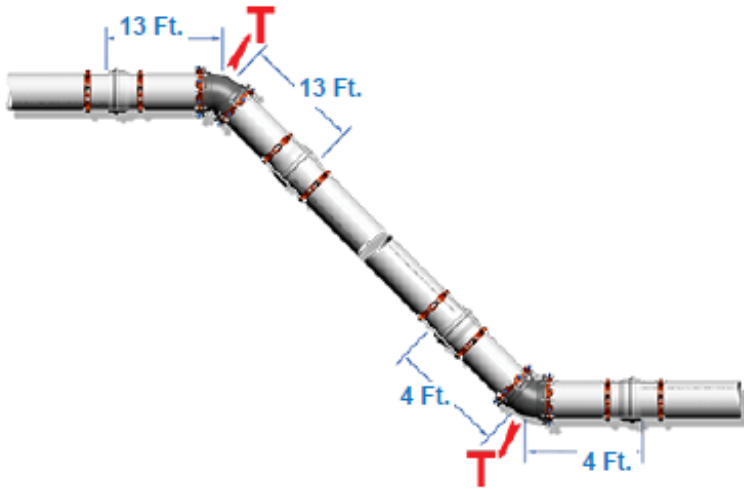


\*all joints within the calculated length must be restrained

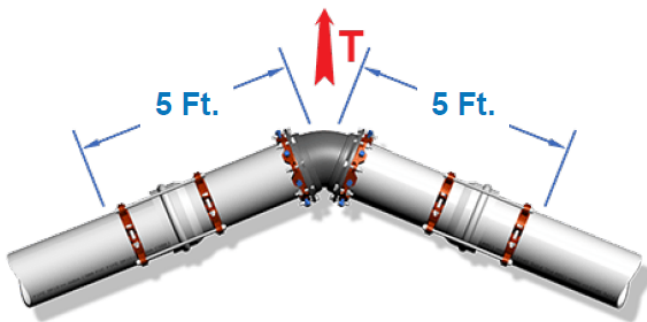
\*If distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings.

C-900

6" Main with 2' drop with 45deg Vertical Bends



6" Main with 45deg Horizontal Bends



\*all joints within the calculated length must be restrained

\*If distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those

**20. Abandoning Sewer, Item 204.0291.S.**

**A Description**

This special provision describes abandoning existing sewer by filling it with cellular concrete as the plans show and conforming to standard spec 204 and standard spec 501 as modified in this special provision.

**B Materials**

Provide cellular concrete meeting the following specifications: 1 part cement, 1 part fly ash, 8 parts sand, or an approved equal, and water. Provide cement meeting the requirements of standard spec 501.2.4.1 for Type 1 Portland Cement. Provide sand meeting the requirements of standard spec 501.2.7.2. Provide water meeting the requirements of standard spec 501.2.6.

**C Construction**

Fill the abandoned sewer pipe with cellular concrete as the engineer directs. In the event that the sewer cannot be completely filled from existing manholes, tap the sewer where necessary and fill from these locations.

**D Measurement**

The department will measure Abandoning Sewer in volume by the cubic yard as specified in standard spec 109.1.3.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

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

stp-204-050 (20210708)

**21. Removing Bike Rack, Item 204.9060.S.01.**

**A Description**

This special provision describes removing city-owned bike racks according to the pertinent provisions of standard spec 204 and as hereinafter provided. Salvage bike racks and deliver to West Allis City Yard, 6300 West McGeoch Avenue. Contact David Wepking, Assistant Director of Public Works, at (414) 302-8832 to coordinate delivery.

**B (Vacant)**

**C (Vacant)**

**D Measurement**

The department will measure Removing Bike Rack by each rack, acceptably completed.

**E Payment**

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Bike Rack	EACH

stp-204-025 (20150630)

**22. Removing Loop Detector Lead-In Cable National & Greenfield Avenue, Item 204.9060.S.02.**

**A Description**

This special provision describes removing loop detector lead in cable as shown on the plans at the National Avenue and Greenfield Avenue intersection, according to the pertinent provisions of standard spec 204, and as hereinafter provided.

**B (Vacant)**

**C Construction**

Notify Don Molleson from the City of West Allis at (414) 302-8873 at least five working days prior to the removal of the loop detector lead-in cable.

Remove and dispose of loop detector lead-in cable for loops being replaced by the project site.

**D Measurement**

The department will measure Removing Loop Detector Lead In Cable, National & Greenfield Avenue as a single unit at each intersection, acceptably completed.

**E Payment**

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.02	Removing Loop Detector Lead-In Cable National & Greenfield Avenue	EACH
stp-204-025 (20150630)		

**23. Removing Landscape Retaining Wall, Item 204.9090.S.01.**

**A Description**

This special provision describes removing Landscape Retaining Walls according to the pertinent provisions of standard spec 204 and as hereinafter provided.

**B (Vacant)**

**C (Vacant)**

**D Measurement**

The department will measure Removing Landscape Retaining Wall in length by the linear foot, acceptably completed.

**E Payment**

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Landscape Retaining Wall	LF
stp-204-025 (20150630)		

**24. Removing Concrete Steps, Item 204.9165.S.01.**

**A Description**

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

**B (Vacant)**

**C (Vacant)**

## D Measurement

The department will measure Removing Concrete Steps in square feet, acceptably completed.

## E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9165.S.01	Removing Concrete Steps	SF

stp-204-025 (20150630)

## 25. Storm Sewer Manhole & Catch Basin Cover Installations.

These requirements apply to the installation of all storm sewer manhole and catch basin/inlet covers.

### Surface Requirements

Set the frames, grates and lids accurately, so the complete installation is at the correct elevation required to fit the adjoining surfaces. The frames shall be set in pavement areas so that they comply with the following surface requirements. Place a 6-foot straightedge over the centerline of each frame parallel to the direction of traffic at the completion of the paving. Make a measurement at each side of the frame and average the two measurements. If this average is greater than 5/8 inch, reset the frame to the correct plane and elevation. If this average is 5/8 inch or less but greater than 3/8 inch, the city will allow the frame to remain in place but shall pay only 50 percent of the contract unit price for adjusting catch basin or manhole frames. If the frame is higher than the adjacent pavement, then make the two measurements at each end of the straightedge and average them.

### Repudiation of Past Practice

Observations of manhole and catch basin structures of various ages have disclosed numerous cases where the frames have settled below the adjacent pavement or gutter, and investigation has revealed the materials used to support and adjust the frame have deteriorated to the extent that such materials could either be removed by hand or had already fallen into the structure. Such conditions are the result, at least in part, of the improper methods used in setting or adjusting the frames when they were installed. In the past, frames were often temporarily supported on a variety of shims or wedges while the adjacent concrete was being placed. Later, a cosmetic layer of mortar was applied from the inside of the structure with little, if any, mortar getting under the flange of the casting. This practice of adjusting the masonry structure to near the final grade, supporting the frames on small wedges while placing the adjacent concrete, then later attempting to force mortar under the flange, has proven unsatisfactory and will not be permitted.

The practice of boxing out frames and then placing adjacent concrete promotes random cracking and will not be permitted. The following construction practices will be required:

- a. Whenever possible, the frames should be adjusted and set to grade on a full bed of mortar in advance of the paving operation or curb and gutter placement (except on asphalt pavement and asphalt resurfacing projects where the manhole frames shall only be adjusted after the lower layer of hot mix asphalt pavement is completed).
- b. In the case of catch basin frames where slip-form methods of curb and gutter placement are utilized, the frames can be preset approximately 1 inch low, the curb box removed, and the slip-form operation run continuously through the inlet location. Later, the curb section can be shoveled out, the curb box replaced, and the concrete patched in by hand on either side. The gutter section can be worked down to the frame elevation within a short distance on either side of the catch basin.

- c. In the case of a manhole frame in the pavement (slip-form operation), or any other case where the fixture cannot be set prior to the placement of the adjacent concrete, the structure should be covered with a temporary cover such as a steel plate, the location carefully noted, and the concrete placed over the structure. When the paving operation has passed, the concrete over the structure can be shoveled out, the plate removed, and the frame placed and supported on the masonry structure in such a way that an opening exists between the top of the masonry structure and the bottom of the casting flange. The subgrade around the structure should be sloped down to the top of the masonry structure on about a two-to-one slope to allow concrete to flow into the opening under the flange. A form must be placed inside the structure to retain the concrete. As the concrete is placed adjacent to the frame, it should be carefully spaded and vibrated to force it under the flange. All remaining voids are to be pressure grouted with no shrink grout before opening the highway to traffic. Curing usually is not required for brick or concrete block masonry; however, the curing requirements are necessary when the manhole or inlet is constructed with concrete masonry.

An inspection will be made of the interior of all manholes and catch basins before final acceptance. Fill any voids between the flange and the top of the structure. Prior to final inspection and acceptance, all new, reconstructed or existing storm sewers, catch basins, manholes or other drainage structures are to be cleaned of debris that has accumulated as a result of work operations under the contract.

## **26. Tree Planting.**

The work consists of furnishing and installing trees. Planting shall be performed only by skilled workers with satisfactory record of performance on completed projects of comparable size and quality. This project includes installing Arborsystem® - Urban Tree Planting Systems, Item SPV.0025.01 that will govern additional tree planting requirements.

Use proper horticultural practice in handling all plant material making sure root ball remains intact without cracks or loose soil within the root ball.

Plants shall be warranted to be in a disease free, pest free and healthy growing condition one year from the date of final acceptance by the engineer. The engineer shall notify the contractor in writing of any plants that do not meet the above requirements and the contractor shall replace the dead or diseased plants at the earliest appropriate planting season.

All plant material shall be obtained from a nursery source in hardiness zones 4 or 3. All plant material shall meet the requirements and specifications of the American Association of Nurserymen, American Standard for Nursery Stock (ANSI Z60-1990). Non-conforming plant material may be rejected by the engineer any time prior to final acceptance.

Copies of purchase orders from the nurseries must be supplied to the Superintendent of Forestry to determine correct species. The City of West Allis Forestry Division contact number is (414) 302-8811.

Plant substitutions for any reason must be approved by the Superintendent of Forestry before installation.

The location of plant holes and beds shall be staked out or painted. All marked locations shall be approved by engineer before excavation begins.

Plant material and mulch must be inspected and approved by the Superintendent of Forestry before installation.

Mulch shall be of uniform size and comply with D.A.T.C.P. ash regulations

Notify the Superintendent of Forestry 24 hours prior to planting. City Forestry personnel must be present during all planting operations.

For shade and ornamental tree planting, refer to the Arborsystem® - Urban Tree Planting Systems in the plans and these specifications.

1. Any Tree Tags or ribbons on tree are to be removed.
2. Broken branches are removed.
3. Bud/Graft Union. Use to assist in the location of the root flare on balled and burlapped trees. Estimate root flare at 6" below the bud/graft union.
4. Root Flare must be exposed and slightly above the finished grade. No fill should be placed on top of the root ball.



5. With the tree in the upright position, cut openings into the burlap on top of ball in between the rope holding the basket to the root ball. Dig into the ball soil using a small hand trowel to locate the root flare. The root flare is the area where the main roots transition into the trunk. Measure up from bottom of the root ball to the root flare to determine the proper depth of the planting hole.
6. The planting hole depth is set according to the measurement determined as described above. The bottom of the planting hole should be undisturbed. If the hole is too deep, soil must be added and compacted beneath the tree ball.
7. Flare the Planting Hole edges in all soils. The planting hole shall be excavated 12" wider on all sides.
8. Glazed Soil on side of planting hole is broken up.
9. Remove the bottom half of the wire basket, leaving the burlap intact. Set the ball in the hole at the proper depth previously established. Place 6" to 10" of soil around the ball to stabilize it. Then remove the remaining wire basket and burlap above the soil just added.
10. Guying consists of straps of webbing attached with wire. Space straps several inches apart where possible. Do not over tighten. The tree should be able to move slightly.
11. Twist wire back to avoid injury. Metal "T" post stakes are parallel to the trunk and installed outside the root ball with the flanges facing out.
12. Backfill material must be approved by the Superintendent of Forestry prior to backing around the trees. Unsuitable excavated materials shall include materials such as: heavy clay, concrete, gravel, organic material, sand or other as determined on site. If excavated material is unsuitable to be used for planting, supply a silt loam soil to be used in place of the excavated material. Dispose of unsuitable and excess excavated material.
13. Trees shall be fertilized with two commercial grade "PHC Tree Saver "mycorrhizal/fertilizer or approved equal, packets per tree.
14. Plants shall be thoroughly watered in to eliminate all air pockets around the tree ball.
15. Mulch is placed over soil 3" thick, no deeper than 1" deep next to the trunk and dished away.

#### Tree Protection

Take all necessary precautions to protect trees within the project limits. Where it is perceived that even with reasonable care, damage may occur to a tree during construction, the City of West Allis Forestry Division shall be contacted at (414) 302-8811 to request a preconstruction meeting on site. If approved by the engineer and the City of West Allis Forestry Division, tree roots may be sawed to facilitate construction of curb and gutter or sidewalk. Only the City of West Allis Forestry Division will repair damage caused to any street tree.

#### **27. Landscape Planting Surveillance and Care Cycles.**

The Plant Establishment Period identified under standard spec 632.3.18.1.1 shall be modified from a two-year period to a one-year period.

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 \$600.00 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.

#### **28. Moving Signs Type II, Item 638.2102.**

*Append standard spec 638.3.2 to include the following:*

- (5) Remove all signs to be salvaged and reused on the project prior to removing and salvaging light poles. Provide safe storage of signs during construction.

- (6) Provide new mounting hardware (bands), conforming to stand spec 637, for existing signs being moved to new sign poles, light poles or signal poles. New hardware is incidental to the Moving Signs Type II bid item.

## **29. Removing Signs Type II, Item 638.2602.**

Perform this work according to standard spec 638 and as hereinafter provided.

Remove and stockpile at a location within the right-of-way, outside of the construction limits, all salvageable signs and post for salvaging by the City of West Allis. Contact Traci Gengler, City of West Allis, at (414) 302-8374 three working days prior to removal.

## **30. Street Lighting Systems for the City of West Allis.**

Work under this contract shall include the removal, modification and installation of street lighting systems owned and operated by the City of West Allis. Perform all work according to the plans, specifications and as hereinafter noted.

### Existing Street Lighting Circuits – Warning – Electrocutation Hazard:

The City of West Allis has multiple street lighting circuits along National Avenue; and crossing National Avenue, within the project area. Much of the existing street lighting circuits are high voltage series type circuits. By proposing to do the work the electrical subcontractor acknowledges that they are professionally knowledgeable of the hazards inherent in series street lighting and that they will train their staff as to the appropriate safety procedures for working around series wiring and other portions of the system.

The City of West Allis Electrical Division staff contact for purposes of this project shall be Don Molleson at (414) 302-8873 or (414) 239-4751 cell. Carefully read and consistently abide by the following coordination requirements in order to safely work within areas of existing series street lighting circuits:

- Schedule and attend an initial project meeting prior to any work taking place, electrical or otherwise. The City of West Allis will provide contact information for city staff, electrical system maps and other information as needed. Two weeks' notice in advance of this meeting is required.
- Coordinate with the city in advance of making any side street lighting circuit connections as shown on the plans. New conduit installed by bore shall be in place in stage one prior to disrupting any lighting circuits.
- Coordinate with the city in advance of removing any existing streetlights or pull boxes as shown on the plans. The intent is to maintain the existing street lighting in operation as long as possible. Some minor temporary connections and modifications to the existing street lighting system may be made by the City of West Allis if it is determined necessary. One-week notice in advance of removing any existing streetlights or pull boxes is required.
- Coordinate with the city in advance of removing any existing curb and gutter or sidewalk as shown on the plans. The existing electrical wiring is buried at a relatively shallow depth just behind the curb in most locations along West National Avenue. The removal of the curb and gutter and sidewalk is likely to result in damage to the existing wiring and potentially exposure to high voltage wiring. The City of West Allis will de-energize any circuit which will be exposed by roadway removal work. One-week notice in advance of removing any existing curb and gutter or sidewalk is required.

### Work Performed by Others:

The City of West Allis will perform the following tasks in coordination with the proposed street lighting work on the project.

- Inspect all wiring terminations prior to energizing the system.
- Install pole plaques after pole installation is complete.

Modifications to the Standard Specifications:

*Append standard spec 651 with the following:*

The department will allow inspection of street light installations by the City of West Allis.

Notwithstanding any other provision, poles, arms, and concrete bases shall be dimensioned and furnished to fit each other and to work together as one complete system.

*Append standard spec 655.3.1(1) with the following:*

Wet location splices disallowed.

### **31. Nighttime Work Lighting-Stationary.**

#### **A Description**

This special provision describes furnishing portable lighting as necessary to complete nighttime work. Nighttime operations consist of work specifically scheduled to occur after sunset and before sunrise.

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

#### **C Construction**

##### **C.1 General**

This provision shall apply when providing, maintaining, moving, and removing portable light towers and equipment-mounted lighting fixtures for nighttime stationary work operations, for the duration of nighttime work on the contract.

At least 14 days before the nighttime work, furnish a lighting plan to the engineer for review and acceptance. Address the following in the plan:

1. Layout, including location of portable lighting – lateral placement, height, and spacing. Clearly show on the layout the location of all lights necessary for every aspect of work to be done at night.
2. Specifications, brochures, and technical data of all lighting equipment to be used.
3. The details on how the luminaires will be attached.
4. Electrical power source information.
5. Details on the louvers, shields, or methods to be employed to reduce glare.
6. Lighting calculations. Provide illumination with average to minimum uniformity ratio of 5:1 or less throughout the work area.
7. Detail information on any other auxiliary equipment.

##### **C.2 Portable Lighting**

Provide portable lighting that is sturdy and free standing and does not require any guy wires, braces, or any other attachments. Furnish portable lighting capable of being moved as necessary to keep up with the construction project. Position the portable lighting and trailers to minimize the risk of being impacted by traffic on the roadway or by construction traffic or equipment. Provide lightning protection for the portable lighting. Portable lighting shall withstand up to 60 mph wind velocity.

If portable generators are used as a power source, furnish adequate power to operate all required lighting equipment without any interruption during the nighttime work. Provide wiring that is weatherproof and installed according to local, state, federal (NECA and OSHA) requirements. Equip all power sources with a ground-fault circuit interrupter to prevent electrical shock.

##### **C.3 Light Level and Uniformity**

Position (spacing and mounting height) the luminaires to provide illumination with an average to minimum uniformity ratio of 5:1 or less throughout the work area.

Illuminate the area as necessary to incorporate construction vehicles, equipment, and personnel activities.

#### **C.4 Glare Control**

Design, install, and operate all lighting supplied under these specifications to minimize or avoid glare that interferes with all traffic on the roadway or that causes annoyance or discomfort for properties adjoining the roadway. Locate, aim, and adjust the luminaires to provide the adequate level of illumination and the specified uniformity in the work area without the creation of objectionable glare.

Provide louvers, shields, or visors, as needed, to reduce any objectionable levels of glare. As a minimum, ensure the following requirements are met to avoid objectionable glare on the roadways open to traffic in either direction or for adjoining properties:

1. Aim tower-mounted luminaires, either parallel or perpendicular to the roadway, so as to minimize light aimed toward approaching traffic.
2. Aim all luminaires such that the center of beam axis is no greater than 60 degrees above vertical (straight down).

If lighting does not meet above-mentioned criteria, adjust the lighting within 24 hours.

#### **C.5 Continuous Operation**

Provide and have available sufficient fuel, spare lamps, generators, and qualified personnel to ensure that the lights will operate continuously during nighttime operation. In the event of any failure of the lighting system, discontinue the operation until the adequate level of illumination is restored. Move and remove lighting as necessary.

#### **D (Vacant)**

#### **E Payment**

Costs for furnishing a lighting plan, and for providing, maintaining, moving, and removing portable lighting, tower mounted lighting, and equipment-mounted lighting required under this special provision are incidental to the contract.

stp-643-010 (20100709)

### **32. Crack and Damage Survey, Item 999.1501.S.**

#### **A Description**

This special provision describes conducting a crack and damage surveys of the residences and businesses located within the project limits.

This Crack and Damage Survey shall consist of two parts. The first part, performed before construction activities, shall include a visual inspection, digital images, and a written report describing the existing defects in the building(s) being inspected. The second part, performed after the construction activities, shall also include a visual inspection, digital images, and written report describing any change in the building's condition.

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

#### **C Construction**

Before any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Electronically submit a written report with the inspector's name, date of inspection, descriptions and locations of defects, and digital images. The intent of the written report and digital images is to procure a record of the general physical condition of the building's interior and exterior walls and foundation.

Use a digital camera capable of producing sharp, grain free, high contrast colored digital images with good shadow details. Label each digital image with the following information:

ID: \_\_\_\_\_  
Building Location: \_\_\_\_\_  
View looking: \_\_\_\_\_  
Date: \_\_\_\_\_  
Photographer: \_\_\_\_\_

Before the start of any construction activities related to this survey, submit a copy of the written report and digital images to the engineer electronically.

After the construction activities are complete, conduct another survey in the same manner, take digital images, and submit another written report to the engineer electronically.

Instead of digital images, a digital video camera capable of producing sharp, high contrast, colored digital video with good shadow detail may be used to perform this work.

#### **D Measurement**

The department will measure Crack and Damage Survey as single unit for each location, acceptably completed. Locations include:

- 6428 W. National Avenue
- 6416 W. National Avenue
- 6402 W. National Avenue
- 6325 W. National Avenue
- 6309 W. National Avenue
- 6309 W. Greenfield Avenue
- 6301 W. National Avenue
- 6217 W. Greenfield Avenue
- 6233 W. National Avenue
- 6227 W. National Avenue
- 6207 W. National Avenue
- 6203 W. National Avenue

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
999.1501.S	Crack and Damage Survey	EACH

Payment is full compensation for providing the before and after written reports, and for photographs or video.

stp-999-010 (20210708)

### **33. Arborsystem® - Urban Tree Planting System, Item SPV.0025.01.**

#### **A Description**

This special provision describes supplying and installing the Arborsystem® - Urban Tree Planting System, related materials, components and activities, including excavation, aggregate, geotextile, geogrid, all Rootspace® Pavement Support System components, root barriers, underground root ball anchoring, soil inspection portals, aeration/irrigation piping, surface inlets and planting soil.

#### **B Materials**

Furnish the Arborsystem® - Urban Tree Planting System components as described below.

##### **B.1 System Description**

The Arborsystem® - Urban Tree Planting System shall be constructed to provide large volumes of uncompacted soil for healthy tree growth under load-bearing pavement surfaces.

Specific to the site requirements, the Arborsystem® - Urban Tree Planting System shall have the flexibility to be assembled around existing structures, utilities and in tight constraints to achieve the specified soil volume. The system shall allow for easy disassembly and reassembly to allow for utility repair and/or maintenance within and below the system.

The Arborsystem® - Urban Tree Planting System shall be a complete system that includes, but is not limited to, the following integral components: Rootspace® Pavement Support System, geogrid/geofabric, aeration/irrigation piping, fittings and surface inlets, root management products, underground root ball anchoring system and inspection portals.

## B.2 Components

### A. Rootspace® Pavement Support System / Soil Cell System

1. For ease of installation and for future utility repair and/or maintenance, the Rootspace® Pavement Support System shall consist of two main components, an upright and a top deck. An interlocking side infill panel shall be available and installed adjacent to the roadway curb line.
2. The Rootspace® Pavement Support System shall have the ability to be uniformly stacked to increase the cubic volume of soil per area of installation, and to work around existing below ground infrastructure. At minimum, the following five depth configurations shall be available: ~16", ~24", ~32", ~40", and ~48".
3. The assembled Rootspace® Pavement Support System shall have a minimum accessible soil volume of 97% and be continuously open in both length and width.
4. The assembled Rootspace® Pavement Support System shall have the capability of accommodating utilities up to ~16" within the system.
5. As assembled, the Rootspace® Pavement Support System uprights shall interlock in both the vertical and horizontal axis, and the top deck shall interlock with the uprights. The Rootspace® Pavement Support System shall be assembled to form an interlocked soil cell matrix, specific to site requirements.
6. The Rootspace® Pavement Support System shall have a minimum load bearing strength of 6,260 pounds per square foot / 30,564 kilograms per square meter, as tested by a third-party laboratory. The assembled Rootspace® Pavement Support System shall at minimum, be capable of supporting vehicle loads according to AASHTO H-20/HS-20, including a safety factor of 1.5, when used in conjunction with approved vehicle rated pavement profiles.
7. The Rootspace® Pavement Support System shall meet the minimum load bearing strength of 6,260 pounds per square foot / 30,564 kilograms per square meter when installed on slopes up to 5%. For slopes greater than 5%, and less than 10%, please contact the manufacturer for design assistance.
8. The Rootspace® Pavement Support System shall be designed to be filled with planting soil, with the top deck either on or off, and without the use of strong-backs to hold the uprights in position during soil installation.
9. The Rootspace® Pavement Support System components shall be manufactured using 100% recycled plastic to the following sizes and specifications:
  - a. Upright: Injection molded, polypropylene or polyethylene, with nominal dimensions as follows:
    1. Two of 24" SOIL CELL UPRIGHT: ~20"x ~24" x ~4".
  - b. Top Deck / AirFlow™ QR (Quick Release): Injection molded, polypropylene or polyethylene deck with nominal dimensions as follows:
    1. The top deck shall be designed to provide a 3" aeration layer above the planting soil within the SOIL CELL SYSTEM.
    2. Soil Cell Top Deck: ~20" x ~20" x ~3".
  - c. Side Infill Panel: Injection molded, polypropylene or polyethylene with nominal dimensions as follows:
    1. 24" Soil Cell Side Infill Panel: ~13" x ~20.5" x ~1.5".
10. Products meeting this specification:
  - a. RootSpace® 400 (16") Pavement Support System (GreenBlue Urban / 1-866-282-2743 / [www.greenblue.com](http://www.greenblue.com))
  - b. RootSpace® 600 (24") Pavement Support System (GreenBlue Urban / 1-866-282-2743 / [www.greenblue.com](http://www.greenblue.com))

### **B.3 Related Products**

#### **A. Ribbed Root Barrier**

1. The Ribbed Root Barrier shall be designed to redirect tree roots down and away from pavement surfaces. Ribbed Root Barrier shall be installed vertically at specified locations, usually near the tree trunk and at the soil surface. Ribbed Root Barrier shall be manufactured to meet the following requirements:
  - a. Material shall be 100% recycled plastic.
  - b. Minimum Thickness: 0.04".
  - c. Form: Linear rolls with vertical integral root training ribs.
  - d. Depth: 24", as required per plan detail.
  - e. Roll Length: 100' (30 m)
  - f. Color: Black
  - g. Seams shall be overlapped ~8" and sealed on both sides with joining tape.
2. Products meeting this specification:
  - a. ReRoot™ Ribbed Root Barrier (GreenBlue Urban / 1-866-282-2743 / [www.greenblue.com](http://www.greenblue.com))

#### **B. Root and Moisture Barrier**

1. The Root and Moisture Barrier shall be designed as a linear membrane that is installed to prevent tree root growth and moisture intrusion in building foundations and underground utilities. The Root and Moisture Barrier may be installed vertically or horizontally, as specified on the plans. The Root and Moisture Barrier shall be manufactured to meet the following requirements:
  - a. Material shall be 100% recycled plastic.
  - b. Minimum Thickness: 0.04".
  - c. Form: Linear rolls with a smooth surface.
  - d. Depth: 48", as specified on the plans.
  - e. Roll Length: 100' (30 m)
  - f. Color: Black
  - g. Seams shall be overlapped ~8" and sealed on both sides with joining tape.
2. Products meeting this specification:
  - RootStop™ Root and Moisture Barrier (GreenBlue Urban / 1-866-282-2743 / [www.greenblue.com](http://www.greenblue.com))

#### **D. Rootball Aeration/Irrigation System**

1. The Rootball Aeration/Irrigation System shall be designed to provide a means of getting air and water into the soil and rootzone, and a means of allowing organic gases from the decay of organic matter within the soil to escape. The Rootball Aeration/Irrigation System components shall be manufactured to meet the following requirements:
  - a. Aeration/Irrigation Pipe
    - Material shall be 100% recycled plastic.
    - Diameter: 2.375", as required per plan detail.
    - Form: Slit perforated pipe in rolls.
    - Connectors: Molded connectors (coupling, tee) to effect proper jointing.
    - Roll Length: 100'
    - Color: Black
  - b. Aeration/Irrigation Inlet

2. Body: Plastic
  - Grate: Plastic
- Grate walking surface shall meet ADA requirements.
  - Products meeting this specification:
- RootRain™ Pipe & Fittings, Civic™ (GreenBlue Urban / 1 (866) 282-2743 / [www.greenblue.com](http://www.greenblue.com))

#### E. Soil Aeration/Irrigation System

1. The Soil Aeration/Irrigation System shall be constructed to provide a means of getting air and water into the soil, and a means of allowing organic gases, from the decay of organic matter within the soil, to escape. The Soil Aeration/Irrigation System components shall be manufactured to meet the following requirements:
  - a. Pipe
    1. Material shall be 100% recycled plastic.
    2. Diameter: 4”.
    3. Form: Precut non-perforated pipe.
    4. Length: ~20”
    5. Color: Black
  - b. Aeration/Irrigation Inlet
    1. Body: Stainless Steel
    2. Grate: Stainless Steel
      - Grate walking surface shall meet ADA requirements.
    3. Products meeting this specification:
      - RootRain™ ArborVent™ 150 (GreenBlue Urban / 1 (866) 282-2743 / [www.greenblue.com](http://www.greenblue.com))

#### F. Soil Inspection Portal

1. The Soil Inspection Portal shall be designed to allow for the sampling and inspection of the soil and/or water levels within the Rootspace® Pavement Support System and can be used as a means of adding nutrients to the soil. The Soil Inspection Portal components shall be manufactured to meet the following requirements:
  - Material shall be polyvinyl chloride (PVC) pipe.
  - Diameter: 4”, as required per plan detail.
  - Cap: Flush cap installed flush with pavement surface.
  - Products meeting this specification:
    - ArborSystem® Inspection Portal (GreenBlue Urban / 1 (866) 282-2743 / [www.greenblue.com](http://www.greenblue.com))

#### G. Geogrid Reinforcement for Soil

1. A geogrid meeting the following meeting the following requirements shall be placed on top of the Aggregate Sub-Base Course, beneath the Rootspace® Pavement Support System.
2. High-performance geogrid reinforcement for soil, constructed of high molecular weight and high tenacity polyester yarns utilizing a knitting process and polymeric coating to provide superior engineering properties. The geogrid shall be engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments.



3. GeoGrid Physical Properties:

Property	Imperial	Metric
Ultimate Strength (MD) <i>(ASTM D 6637 - Method A Single-Rib)</i>	3,600 lbs/ft	52.5 kN/m
Creep Limited Strength <i>(ASTM D 5262D 6992)</i>	2,323 lbs/ft	33.9 kN/m
Long-term Design Strength <i>(Sands, Silt &amp; Clay)</i>	1,919 lbs/ft	28.0 kN/m
Product Weight	6.5 oz/sy	220.4 g/sqm

4. Products meeting this specification:

ArborGrid™ 200 (GreenBlue Urban / 1 (866) 282-2743 / [www.greenblue.com](http://www.greenblue.com))

H. Geogrid with Integrated Non-Woven Geotextile:

1. A Geogrid with Integrated Non-Woven Geotextile meeting the following meeting the following requirements shall be placed on top of the Rootspace® Pavement Support System and beneath the Aggregate Pavement Base Course.
2. The Geogrid with Integrated Non-Woven Geotextile is a high strength geogrid comprised of stretched monolithic polypropylene flat bars with welded junctions and a mechanically bonded filter geotextile welded within the geogrid structure. It is used for reinforcement of granular pavement base. The Geogrid with Integrated Non-Woven Geotextile shall be manufactured to meet the following requirements:

a. GeoGrid Physical Properties:

Property	Units	Value
Mass per unit area	g/m <sup>3</sup>	250
Max tensile strength <i>(machine direction/cross machine direction)</i>	kN/m	≥ 40 / ≥ 40
Elongation at nominal strength <i>(machine direction/cross machine direction)</i>	%	≤ 8 / ≤ 8

b. Geotextile Properties

Property	Units	Value
Mass per unit area	g/m <sup>3</sup>	150
Max tensile strength <i>(machine direction/cross machine direction)</i>	kN/m	7.5 / 11
Elongation at nominal strength <i>(machine direction/cross machine direction)</i>	%	40 / 30
Puncture Force (x-s)	N	1,670
Opening size	mm	0.13
Water Permeability – flow rate H50	l/sm <sup>2</sup>	110

2. Products meeting this specification:

CombiGrid (GreenBlue Urban / 1 (866) 282-2743 / [www.greenblue.com](http://www.greenblue.com))

**I. Rootball Anchoring System**

1. The Rootball Anchoring System is a below grade system comprised of cables, spearhead, deadman or plate anchors and web strap used for anchoring a rootball into the ground. The Rootball Anchoring System shall be manufactured to meet the following requirements:

- Material shall be as follows: stainless or galvanized steel cables, biodegradable web strapping, and plated steel tensioner
- Anchorhead Type/Material: Plate/Zinc Plated-Steel

2. Products meeting this specification:

ArborGuy® Anchor Plate Rootball Anchoring System  
(GreenBlue Urban / 1 (866) 282-2743 / [www.greenblue.com](http://www.greenblue.com))

**B.4 Other Related Materials**

**A. Aggregate Sub-Base Course (Specified as A Drainage Layer)**

1. Coarse aggregate shall meet the following requirements:

- Aggregate shall be an open-graded, self-compacting, angular stone produced from 100% crushed material.
- All aggregate shall be clean and washed.

2. Unless otherwise approved by the engineer, coarse aggregate for the Aggregate Sub-Base Course shall be uniformly graded as defined below:

a. Aggregate Sub-Base Course Physical Properties (AASHTO #56, 57, 6, 67, 68):

Sieve	#56	#57	#6	#67	#68
	Percent Passing				
1 ½"	100	100	-	-	-
1"	95-100	95-100	100	100	100
¾"	-	-	90-100	90-100	90-100
½"	25-80	25-80	20-55	-	-
⅜"	-	-	0-15	20-55	30-65
No 4	0-10	0-10	0-5	0-10	5-25
No 8	0-5	0-5	-	0-5	0-10
No 16	-	-	-	-	0-5
No 50	-	-	-	-	-

3. Sand shall not be an acceptable substitute for coarse aggregate.

**B. Aggregate Sub-Base Course (Not Specified as A Drainage Layer)**

1. An aggregate meeting one of the following specifications:

a. ASTM D1241-07, Type 1, Gradation B Standard Specification for Materials for Soil-Aggregate Sub-base, Base, and Surface Courses.

Sieve	Percent Passing
1 ½"	100
1"	75-95
⅜"	40-75
No 4	30-60
No 10	20-45
No 40	15-30
No 200	5-15

b. Wisconsin Department of Transportation aggregate that most closely meets the gradation of ASTM D1241-07.

2. Sand shall not be an acceptable substitute for aggregate.

C. Aggregate Base Course (Pavement Base – Non-Pervious Surface)

1. An aggregate meeting one of the following specifications:
  - a. ASTM D1241-07, Type 1, Gradation B Standard Specification for Materials for Soil-Aggregate Sub-base, Base, and Surface Courses.

Sieve	Percent Passing
1 ½"	100
1"	75-95
¾"	40-75
No 4	30-60
No 10	20-45
No 40	15-30
No 200	5-15

- b. Wisconsin Department of Transportation aggregate that most closely meets the gradation of ASTM D1241-07.
2. Sand shall not be an acceptable substitute for aggregate.

D. Planting Soil (Installed Within the Rootspace® Pavement Support System)

Planting soil shall be a blended mix consisting of the following ingredients and ratios:

70% topsoil as defined in standard spec 625.2 (1).

30% compost as defined in standard spec 632.2.3.1.

Planting soil shall be free of debris, rocks larger than ½-inch and having a pH range of 5.5 to 6.5 and an organic material content of 5% min. and 25% max.

Product Data: Submit planting soil blend composition data on topsoil and compost used in planting soil to engineer for approval prior to construction.

E. Backfill Material (Installed Around the Perimeter of the Rootspace® Pavement Support System)

1. The Backfill Material shall meet one of the following specifications:
  - a. Open-graded, self-compacting, 3/8" to 3/4" angular crushed stone.
  - b. Clean, compactable, native excavated material (structural fill), that is free from organic matter, frozen materials, stones larger than 3" in diameter, trash, other debris and other toxic substances injurious to plant material.
  - c. Clean, compactable, coarse grained soil, meeting the following requirements,
    - i. Unified Soil Classification system for soil type GW, GP, GC with less than 30% fines, SW, and SC with less than 30% fines.

All materials, methods of construction, and workmanship shall conform to applicable requirements of ASTM and AASHTO Standards, unless otherwise specified.

The quality of material and the finished components shall be subject to inspection by the Consultant. Such inspection may be made on-site upon delivery or at any point thereafter. The components shall be subject to rejection at any time if material fails to meet any of the specification requirements, even though sample components may have been accepted as satisfactory. Components rejected after delivery to the site shall be marked for identification and shall be removed from the site at once.

**C Construction**

**C.1 General**

Coordinate with the manufacturer the delivery of the Arborsystem® - Urban Tree Planting System to the project site. The system includes all components necessary for the assembly of the Arborsystem® - Urban Tree Planting System as required per the Drawings.

The manufacturer will provide a minimum of 4 hours on-site training and support during the system installation. This may be coordinated with the Pre-Installation Meeting.

## **C.2 Pre-Installation Meeting**

Prior to the installation of the Arborsystem® - Urban Tree Planting System and associated work, meet with the consultant(s), the contractor, the Arborsystem® - Urban Tree Planting System installer and project manager, the manufacturer's representative, the owner at their discretion and other parties concerned with the system installation and performance.

1. Provide at least 72 hours advance notice to all participants attending the pre-installation meeting.
2. The pre-installation meeting agenda will include, but is not limited to:
  - a. The review of required submittals.
  - b. Coordination and sequence of installation with other trades and the construction schedule.
  - c. Review of materials, system details and methods of installation.
  - d. Site specific considerations (ie: geotechnical, hydrology).
  - e. System layout and installation procedures.
  - f. Mock-up of the Arborsystem® - Urban Tree Planting System.

Preparing the site for the system installation including, but not limited to, excavation, temporary shoring, system installation, compaction, and backfilling.

Prepare a schedule and coordinate work under this section with other trades and disciplines impacting this work.

## **C.3 Testing Agency Services**

1. Provide and pay for the services of an independent testing agency to perform the testing activities specified in this section. Testing agency shall be acceptable to consultant.
2. Test work according to specified standards. In the absence of a specified standard, comply with the relevant ASTM standard.
3. Test Reports: Testing agency shall prepare test reports for all tests performed. Submit copies of test reports to consultant immediately upon their becoming available.

## **C.4 Submittals**

Provide submittals to engineer for review and acceptance not less than 7 days prior to start of installation of materials and products specified in this section.

1. Product Data: For each type of product, the manufacturer's product literature shall be submitted with technical data sufficient to demonstrate that the product meets these specifications.
2. Test and Evaluation Reports: For soils and aggregates provide testing agency laboratory analysis.
3. Shop Drawings: Drawings shall show all information needed to install the Rootspace® Pavement Support System including aggregate sub-base, horizontal and vertical dimensions and elevations.
4. Provide manufacturer's warranty documentation.

## **C.5 Inspection**

All components shall be inspected for general appearance, dimensions, soundness, etc.

Upon completion of relevant excavation work, and prior to placement of geotextile and aggregate, the sub-base soil shall be inspected by the Consultant or authorized representative and be signed off on by the Consultant as acceptable and meeting manufacturer's recommendations.

Upon completion of the placement of the Rootspace® Pavement Support System (as specified) and geotextile, and prior to backfilling, the structure shall be inspected by specifying engineer or authorized representative and signed off on by the Consultant as acceptable and meeting manufacturer's recommendations.

Products with structural defects shall be immediately removed and replaced with acceptable parts. The Specifying Engineer, before final acceptance, shall carefully inspect repairs/replacements.

## **C.6 Delivery, Storage and Handling**

Unloaded, handle and store components in an area protected from traffic and in a manner to prevent damage. Inspect materials to ensure that specified materials have been received.

Plastic components may become brittle at cold temperatures. Use caution when handling plastic components below 15°F (-10°C).

Store all material on pallets, with pallet wrap intact until required for installation. Unwrap pallets carefully ensuring unstable sections don't collapse dangerously. Store units to avoid damage from other construction activities.

Protect geogrids and geofabrics from physical damage and from temperatures in excess of 150°F (65°C). Do not expose geogrids and geofabrics to direct sunlight for more than 7 days.

Ensure that all unrelated construction traffic be kept away from the limits of excavation until project is complete and final surface materials are in place.

## **C.7 Site Conditions**

Do not proceed with installation when subgrades, soils and planting soils are in a wet, muddy or frozen condition.

Before commencing work on site examine available documentation pertaining to site and determine nature and location of above ground and underground utilities.

Before proceeding with full scale excavation work, confirm nature of existing soil conditions and the drainage characteristics of existing soil.

Abandoned utilities encountered during excavation shall be removed and their ends plugged.

Active utilities encountered during excavation and not indicated in contract documents shall be reported immediately to consultant and utility owner who shall determine measures necessary to repair (if damaged), relocate, remove or work around the utility.

## **C.8 Installation**

Coordinate the installation with the product manufacturer, as specified in Section C.1, to have the manufacturer on-site during product installation.

Locate underground utilities before proceeding with excavation.

Review manufacturer's installation procedures and coordinate Arborsystem® - Urban Tree Planting System installation with other work affected, such as grading, excavation, utilities, construction access, erosion control, etc.

**Tree Pit Layout:** Layout tree pit locations and dimensions using string lines, survey pegs and marking paint. Obtain Consultant's approval of layout before proceeding with excavation.

**Tree Pit Depths:** Confirm excavation depths with reference to finished pavement elevations. Allow for granular base course layer and, where applicable, drainage layer.

The assembled Rootspace® Pavement Support System may be walked on, but vehicular traffic is prohibited until properly backfilled and covered per Manufacturer's recommendations. Protect personnel and the installation against damage with highly visible construction tape, fencing, or other means until construction is complete.

### Excavation Below Grade

Excavation required for the installation of all pipes and structures shall be made to the depths and widths indicated on the Drawings (a minimum of 12") beyond all sides of at the base of the Rootspace® Pavement Support System is required for proper backfill). Ensure that the bottom of the excavation is firm and dry and, in all respects, acceptable to the Consultant.

All objectionable material encountered within the limits indicated shall be removed and disposed of.

In excavation faces, all loose or protruding rocks shall be secured or otherwise removed to finished grade. All cut slopes shall be uniformly dressed to the slope, cross-section and alignment shown on the Drawings or as directed by the engineer.

Furnish, install, monitor and maintain excavation support (e.g., shoring, sheeting, bracing, trench boxes, etc.) as required by Federal, State and Local Laws, Ordinances, Regulations and Safety Requirements. Support the sides of excavation, to prevent any movement which could in any way reduce the width of the excavation below that necessary for proper construction and protect adjacent structures from undermining, settlement or other damage.

#### Sub-Grade Preparation and Grading

The sub-grade shall be unfrozen, level, and free of lumps or debris with no standing water, mud or muck. Do not use frozen materials or materials mixed or coated with ice or frost. Unless otherwise specified by the Consultant, a minimum 2,000 pounds per square foot bearing capacity is required.

If contractor fails to maintain the SUB-GRADE properly, the contractor shall remove the unsuitable material. If the bottom of any portion of the excavation is removed below the limits shown on the Drawings, it shall be restored to the elevation shown in the Drawings. Compacted native earthen fill is not acceptable.

If in the opinion of engineer, the SUB-GRADE, at or below the normal grade of the excavation as indicated on the Drawings, is unsuitable for construction; it shall be removed to such depth and width as the engineer may direct and be replaced with aggregate material as directed by the engineer.

#### Sub-Base Course Preparation / Installation

Install a 4" minimum thickness, leveling bed of Aggregate Sub-Base Course, across the bottom of the excavation. The Aggregate Sub-Base Course shall when possible, extend 6" beyond the base of the Rootspace® Pavement Support System in all directions. The Aggregate Sub-Base Course shall be flat surface, free from lumps, debris or any other sharp materials. Base may have up to a 5% slope.

The Aggregate Sub-Base Course (specified as a drainage layer) shall be compacted using a vibratory plate or compaction equipment to sufficiently settle and orient the individual stone facets, or as specified by the Consultant.

The Aggregate Sub-Base Course (not specified as a drainage layer) be compacted shall be compacted using a vibratory plate or compaction equipment to a minimum of 95% of the Standard Proctor Density, or as specified by the Consultant.

Place the Geogrid Reinforcement for Soil on top of the Aggregate Sub-Base Course. The Geogrid Reinforcement for Soil shall extend 6" beyond the base of the Rootspace® Pavement Support System in all directions. Overlap the Geogrid Reinforcement for Soil a minimum 12" or as recommended by the manufacturer.

#### Rootspace® Pavement Support System Installation

Installation procedure, as follows, shall be followed by the contractor. The contractor shall also reference the Manufacturer's Installation Guidelines, and where any discrepancy exists the Consultant reserves the right to contact the Manufacturer's Representative prior to continuation. Installation constitutes acceptance of existing conditions and responsibility for satisfactory performance.

Use a soluble paint, chalk, or string to mark the footprint of the Rootspace® Pavement Support System. Prior to the installation of Rootspace® Pavement Support System uprights, confirm tree pit dimensions and mark location of trees. Rectify discrepancies and errors. Ensure squareness prior to Rootspace® Pavement Support System placement.

Install Rootspace® Pavement Support System uprights in strict accordance with manufacturer's written instructions and installation diagrams. Prior to placement, check each upright for damage. Reject cracked, chipped and otherwise damaged components. Ensure that uprights in contact with the Aggregate Sub-Base Course are firmly seated, with no rocking. Ensure that uprights are mechanically interconnected both horizontally and, in multiple layers, vertically.

Upon completion of the Rootspace® Pavement Support System, wrap the sides of the system with Root and Moisture Barrier, or geogrid to prevent backfill material migration into the Rootspace® Pavement Support System. Take great care to avoid damage to the Root and Moisture Barrier or geogrid during placement. If damage occurs, repair that portion per manufacturer specifications.

The Rootspace® Pavement Support System should not be left exposed to extreme temperatures, high wind conditions, snow, ice or copious amounts of rainfall.

### Accommodating Utilities Within the Rootspace® Pavement Support System

Utilities within the Rootspace® Pavement Support System should meet specifications as required by utility company's standards. This may require special treatments, barriers and details to achieve this.

### Installation of Planting Soil

Obtain Consultant's approval prior to filling the Rootspace® Pavement Support System with planting soil. Install planting soil after the installation of the SUB-DRAINAGE PIPING / UNDER DRAIN (as required), Rootspace® Pavement Support System uprights, root and moisture barriers and backfill material is in place.

Except as shown otherwise on Drawings completely fill all void spaces with planting soil. Place planting soil using an excavator bucket and spread with rakes or shovels

Keep outside perimeter of the Rootspace® Pavement Support System free of planting soil.

Planting soil shall be placed in lifts of 8" to 12" and foot compacted by walking through the planting soil. In no case shall the planting soil be compacted greater than foot compaction, after installation within the Rootspace® Pavement Support System. Note: the top deck is also an aeration layer allowing soil to be filled to top of the uprights.

### Installation of Aeration/Irrigation Piping and Inspection Portal

Lateral Aeration/Irrigation Piping: Install piping within top layer of Rootspace® Pavement Support System uprights in a complete connected circuit, within 12" of outer edge of matrix. Fit junctions and risers at maximum spacing of 12'.

Vertical Soil Inspection Portal: Place vertical piping within central opening of Rootspace® Pavement Support System lid.

Trim vertical pipes to 6" above finished pavement and support in vertical position by temporary staking. Seal open ends of pipes.

### Installation of Root Barriers and Root and Moisture Barriers

Install Ribbed Root Barriers and/or Root and Moisture Barriers as shown on drawings. Overlap barrier joints 8" and tape both sides of joint. Top edge of barriers shall be level with adjacent construction. Ensure that earth surfaces in contact with barriers are flat and free of sharp debris and stones to avoid puncturing barriers. Install Ribbed Root Barriers facing towards the tree.

### Backfilling the Perimeter

Place backfill material evenly around the perimeter of the Rootspace® Pavement Support System in 8" to 10" lifts and compact as specified below.

For compactable materials, each lift shall be compacted shall be compacted using a vibratory plate or compaction equipment to a minimum of 95% of the Standard Proctor Density. For self-compacting stone materials, each lift shall be compacted using a vibratory plate or compaction equipment to sufficiently settle and orient the individual stone facets, or as specified by the Consultant.

Take care to ensure that the compaction equipment doesn't damage the Root and Moisture Barriers, geogrid or Rootspace® Pavement Support System.

Continue backfilling the perimeter until it is backfilled within 10" to 12" of the top of the Rootspace® Pavement Support System uprights. No aggregate base course shall be placed on the top of the Rootspace® Pavement Support System until the side backfill has been placed and compacted.

### Installation of The Geogrid with Integrated Non-Woven Geotextile

Place the Geogrid With Integrated Non-Woven Geotextile horizontally on top of the Rootspace® Pavement Support System allowing it to extend 12" vertically down the sides of the Rootspace® Pavement Support System and 12" horizontally away from the Rootspace® Pavement Support System. For seams, overlap Geogrid With Integrated Non-Woven Geotextile a minimum 8".

### Installation of Aggregate Base Course for Pavement

Continue backfilling the perimeter and top of the Rootspace® Pavement Support System in 4" lifts, until specified depth is reached.

For compactable materials, each lift shall be compacted using a vibratory plate or compaction equipment to a minimum of 95% of the Standard Proctor Density. For self-compacting stone materials, each lift shall be compacted using a vibratory plate or compaction equipment to sufficiently settle and orient the individual stone facets, or as specified by the Consultant.

Only low-pressure tire or track vehicles shall be operated over the Rootspace® Pavement Support System during construction. No machinery should drive on top of the Rootspace® Pavement Support System until a minimum backfill and compaction is achieved. Dump trucks and heavy equipment shall not be operated within the Rootspace® Pavement Support System limits of excavation at any time. Where necessary the heavy equipment should unload in an area adjacent to the Rootspace® Pavement Support System and the material should be moved over the system with low-pressure tire or track equipment.

Ensure that all unrelated construction traffic is kept away from the limits of excavation until the project is complete and final surface materials are in place. No non-installation related loading should be allowed over the Rootspace® Pavement Support System until the final design section has been constructed (including pavement).

Place surfacing or paving materials over the Rootspace® Pavement Support System with care to avoid displacement of cover fill and damage to surrounding areas.

### Site Quality Control

Compaction Tests: Testing agency shall perform compaction testing on sub-grade and on each layer of fill to determine compliance with specified compaction. Determine method and frequency of testing in consultation with consultant.

### Installation of Concrete Curbs at Tree Openings

Confirm exact location of Tree Pit Openings. Cut geocomposite layer and fold back to expose Tree Pit Opening. If specified, position the RootDirector™ in the tree pit opening.

Form and pour concrete curbs along planting areas and tree pit openings as shown on the Drawings to prevent the aggregate base course from migrating into the planting soil.

### Installation of Root Barrier Within the Tree Pit Openings

Place the Ribbed Root Barrier around the inside of the tree pit opening with ribs facing toward the tree. Extend Ribbed Root Barrier down to top of the Rootspace® Pavement Support System and up to level of planting soil within the tree pit. Lap root barrier joints 8" and tape both sides of joint.

### Cleaning and Protection

Perform clean up during installation and upon completion of each phase of the work. Maintain the site free of soil, sediment, trash and debris. Remove excess soil materials, debris, and equipment from the site following completion of each phase of the work.

Repair damage to adjacent materials and surfaces resulting from installation of this work using mechanics skilled in remedial work of the construction type and trades affected.

### Closeout Activities

Provide manufacturer's warranty.

## **D Measurement**

The department will measure Arborsystem® - Urban Tree Planting System by the cubic 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.0025.01	Arborsystem® - Urban Tree Planting System	CF



Payment is full compensation for supplying and installing the Arborsystem® - Urban Tree Planting System, related materials, components and activities; including excavation, aggregate, geotextile, geogrid, all Rootspace® Pavement Support System components, root barriers, underground root ball anchoring, soil inspection portals, aeration/irrigation piping, surface inlets, planting soil and disposal of all waste materials.

**34. Backfill for Plant Beds - 24-Inch Depth, Item SPV.0035. 01.**

**A Description**

This special provision describes furnishing and installing Backfill for Plant Beds - 24-Inch Depth as shown on the plans, and as hereinafter provided. Construction work includes the excavation and removal of existing material and placement of new plant bed backfill mix.

**B Materials**

Backfill for Plant Beds - 24-Inch Depth shall be a blended mix consisting of the following ingredients and ratios:

70% topsoil as defined in standard spec 625.2 (1).

30% compost as defined in standard spec 632.2.3.1.

Provide fertilizer at levels for trees, shrubs and perennial plants as recommended by soil analysis.

Backfill for Plant Beds - 24-Inch Depth shall be free of debris, rocks larger than ½-inch and having a pH range of 5.5 to 6.5 and an organic material content of 5% min. and 25% max.

Product Data: Submit data on topsoil and compost used in Backfill for Plant Beds - 24-Inch Depth to engineer, for approval prior to construction.

**C Construction**

The installation of the Backfill for Plant Beds - 24-Inch Depth shall be according to the plans and details. After excavation and removal of existing soils from the site, install backfill to a minimum depth of 24-inches, but not less than required to meet finish grades after natural settlement. Scarify subgrade and thoroughly blend backfill off-site before spreading. Do not spread if planting soil or subgrade is frozen, muddy or excessively wet. 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 Backfill for Plant Beds - 24-Inch Depth 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.0035.01	Backfill for Plant Beds - 24-Inch Depth	CY

Payment is full compensation for excavation, removal and disposal of existing soils; and for furnishing and installing backfill for plant beds.

**35. Catch Basin Special, Item SPV.0060.02.**

**A Description**

This special provision describes the construction of catch basins as shown on the plans.

**B Materials**

Use materials conforming to Chapter 8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum.

**C Construction**

Use methods that conform to Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum.

**D Measurement**

The department will measure Catch Basin Special as each individual catch basin, 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.0060.02	Catch Basin Special	EACH

Payment is full compensation providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for all excavation, backfilling, disposing of surplus material, and for cleaning out and restoring the work site.

**36. Storm Sewer Reconnect, Item SPV.0060.03.**

**A Description**

This special provision describes the construction of a Storm Sewer Reconnect.

**B Materials**

Use materials conforming to Chapter 8.10 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish sewer pipe, adaptors, fittings, bedding material and backfill to complete the reconnection as specified in the plans.

The new reconnector pipe shall be SDR 35 PVC pipe meeting ASTM D3034 standards, for various pipe sizes as indicated on the plan.

**C Construction**

Use methods that conform with Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

The lateral locations designated in the plan are shown to the best of city records. The exact location of the laterals shall be determined as the existing services are exposed. Inspect the existing lateral at the connection point to verify that pipe is in good condition and free of obstruction and report the inspection to the engineer prior to making the final connection.

A core into the new mainline storm sewer will be required. Flexible couplings with stainless steel shear ring and clamps meeting ASTM C 1173 standards shall be used to connect existing clay or concrete pipe to new PVC pipe. PVC couplings shall be used to connect existing PVC pipe to proposed PVC pipe. All couplers shall be approved by the engineer before installation.

Backfill shall be consolidated by flooding as described in Section 2.6.14 of the latest edition of The City of West Allis Addendum.

**D Measurement**

The department will measure Storm Sewer Reconnect, for all sizes encountered, by each storm sewer reconnection, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Storm Sewer Reconnect	EACH

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, coring, couplings, backfilling, disposal of surplus material, and for cleaning out and restoring the work site.

**37. Relocate Lighting Units, Item SPV.0060.04.**

**A Description**

This special provision describes relocating existing lighting units to new concrete bases as shown in the plans.

**B Materials**

Provide new hardware according to standard spec 659.

**C Construction**

Remove, handle, store and reinstall existing light poles, light fixtures, mast arms, and transformer bases on new concrete bases at locations shown in the plans in a manner that prevents damaging the existing lighting components. Replace contractor-damaged lighting equipment at contractor's expense unless the engineer determines the damage was unavoidable. Prior to removal of existing light pole bases, identify and confirm the existing bolt circle mounting pattern of existing light pole bases. Provide similar bolt circle mounting pattern on new light pole bases. Contact Don Molleson, Electrical Superintendent, at (414) 302-8873 to coordinate de-energizing, relocating, and energizing light poles at their new locations.

**D Measurement**

The department will measure Relocating Lighting Units as each individual relocated 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.0060.04	Relocate Lighting Units	EACH

Payment for the is full compensation for removing, salvaging, temporary storing, and relocating existing light poles, mast arms, transformer bases and luminaires and attached signing to new concrete bases.

The department will measure and pay separately for Removing Concrete Bases and installing new Concrete Bases Type 5, 24 Inch and Concrete Bases Type 5, 30-Inch under those respective bid items.

**38. Internal Sanitary Manhole Seal, Item SPV.0060.05.**

**A Description**

This special provision describes the installation of Internal Sanitary Manhole Seals.

**B Materials**

Use materials conforming to Chapter 8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Supply internal sanitary manhole seals manufactured by Cretex with the following specs:

- Cretex 26" LSS 0-6 Internal Chimney Seal Part No. 092845; or
- Cretex 26" LSS 6-12 Internal Chimney Seal Part No. 092855; or
- Cretex 26" LSS 12-18 Internal Chimney Seal Part No. 092865; or
- Cretex 26" LSS 18-24 Internal Chimney Seal Part No. 092834; or
- Pre-approved equal

**C Construction**

Use methods that conform to Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum.

Install seals in all sanitary manholes upon completion of the pavement.

**D Measurement**

The department will measure Internal Sanitary Manhole Seal by each seal, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Internal Sanitary Manhole Seal	EACH

Payment is full compensation for furnishing and installing all materials necessary to complete the contract work.

### 39. Adjust Sanitary Manhole Frame, Item SPV.0060.06.

#### A Description

Work under this item includes the adjustment of existing sanitary manhole frames to match the proposed finish grade. This work shall be performed according to the requirements of standard spec 611 except as herein modified.

#### B Materials

Use materials conforming to Chapter 8.10 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of the City of West Allis Addendum, and as supplemented as follows:

Supply new frames for all manholes that require adjustment. Supply R-1661-2001 (Frame) with Neenah Type 1661-0010 (Heavy Duty Solid Gasketed Lid).

#### C Construction

Use methods that conform to Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of the City of West Allis Addendum.

The existing manhole frames and lids shall be removed from the manholes and delivered to the Department of Public Works yard at 6300 W McGeoch Avenue, West Allis, WI 53219. Contact the city inspector at (414) 302-8360 to coordinate delivery of existing frames.

Adjust the top of the existing masonry structure and install a new frame.

#### Surface Requirements

Set the frames and lids accurately, so the complete installation is at the correct elevation required to fit the adjoining surfaces. The frames shall be set in pavement areas so that they comply with the following surface requirements. Place a 6-foot straightedge over the centerline of each frame parallel to the direction of traffic at the completion of the paving. Make a measurement at each side of the frame and average the 2 measurements. If this average is greater than 5/8 inch, reset the frame to the correct plane and elevation. If this average is 5/8 inch or less but greater than 3/8 inch, the city will allow the frame to remain in place but shall pay only 50 percent of the contract unit price for adjusting sanitary manhole frames. If the frame is higher than the adjacent pavement, then make the two measurements at each end of the straightedge and average them.

#### Repudiation of Past Practice

Observations of manhole structures of various ages have disclosed numerous cases where the covers have settled below the adjacent pavement, and investigation has revealed the materials used to support and adjust the cover have deteriorated to the extent that such materials could either be removed by hand or had already fallen into the structure. Such conditions are the result, at least in part, of the improper methods used in setting or adjusting the covers when they were installed. In the past, covers were often temporarily supported on a variety of shims or wedges while the adjacent concrete was being placed. Later, a cosmetic layer of mortar was applied from the inside of the structure with little, if any, mortar getting under the flange of the frame. This practice of adjusting the masonry structure to near the final grade, supporting the covers on small wedges while placing the adjacent concrete, then later attempting to force mortar under the flange, has proven unsatisfactory and will **not be permitted**.

The practice of boxing out covers and then placing adjacent concrete promotes random cracking and will not be permitted. The following construction practices will be required:

Whenever possible, the covers should be adjusted and set to grade on a full bed of mortar in advance of the paving operation (except on asphalt pavement and asphalt resurfacing projects where the manhole frames shall only be adjusted **after the lower layer** of hot mix asphalt pavement is completed).

In the case of a manhole cover in the pavement (slip-form operation), or any other case where the fixture cannot be set prior to the placement of the adjacent concrete, the structure should be covered with a temporary cover such as a steel plate, the location carefully noted, and the concrete placed over the structure. When the paving operation has passed, the concrete over the structure can be shoveled out, the plate removed, and the cover placed and supported on the masonry structure in such a way that an opening exists between the top of the masonry structure and the bottom of the frame flange. The subgrade around the structure should be sloped down to the top of the masonry structure on about a two-to-one slope to allow concrete to flow into the opening under the flange. A form must be placed inside the structure to retain the concrete. As the concrete is placed adjacent to the cover, it should be carefully spaded and vibrated to force it under the flange. All remaining voids are to be pressure grouted with no shrink grout before opening the highway to traffic. Curing usually is not required for brick or concrete block masonry; however, the curing requirements are necessary when the manhole or inlet is constructed with concrete masonry.

An inspection will be made of the interior of all sanitary manholes before final acceptance. Fill any voids between the flange and the top of the structure. Prior to final inspection and acceptance, all new, reconstructed or existing sanitary manholes are to be cleaned of debris that has accumulated as a result of work operations under the contract.

This special provision supersedes Chapter 2.2.12: "Adjusting Utility Frames" of the Standard Specifications for Street Construction.

To prevent debris from entering the sanitary sewers, install approved protection barriers prior to any grading operation. Remove these barriers when frame adjustment is complete. There will be no additional compensation for the barriers.

#### **D Measurement**

The department will measure Adjust Sanitary Manhole Frame as each individual sanitary manhole frame, 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	Adjust Sanitary Manhole Frame	EACH

Payment is full compensation for providing required materials, exclusive of frames and lids; for removing existing frames and lids, storage, handling, and delivery; and installing and adjusting new frames and lids including adjusting rings.

### **40. Sanitary Manhole Frame with Solid Gasketed Lid, Item SPV.0060.07.**

#### **A Description**

This special provision describes furnishing Sanitary Manhole Frames with Gasketed Lids. New frames shall be supplied by the contractor for all manholes that require rebuilding.

#### **B Materials**

Supply Neenah Type R-1661-2001 (Frame) with Neenah Type R-1661-0010 (Heavy Duty Solid Gasketed Lid) or approved equal. Note: the lids are a special-order item. If a shallow frame is needed use Neenah Type R-1661-2003 or approved equal.

#### **C Construction**

Install manhole frame and gasketed lid as shown on the plan. Remove existing manhole frames and lids and deliver them to the Department of Public Works yard at 6300 W McGeoch Avenue, West Allis WI 53219. Contact the city inspector at (414) 302-8360 to coordinate delivery of existing frames and lid.

#### **D Measurement**

The department will measure Sanitary Manhole Frame with Gasketed Lid by each individual 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.0060.07	Sanitary Manhole Frame with Gasketed Lid	EACH

Payment is full compensation for installing and furnishing all materials; for, sawing, excavating, and disposal of surplus material and delivering existing manhole frames and lids to the City of West Allis.

**41. Valve 6-Inch, Item SPV.0060.08;  
Valve 8-Inch, Item SPV.0060.09.**

**A Description**

This special provision describes furnishing and installing 6-Inch and 8-Inch Valves.

**B Materials**

Use materials conforming to Chapter 8.18 and 8.22 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Supply the gate valve and valve box. Valves shall be Kennedy 157, Mueller C-2360, Clow F6111 or approved equal. Approved equals shall meet the requirements listed in the latest edition of The City of West Allis Addendum. Gate valve boxes shall be 6860 screw type, manufactured by Tyler or pre-approved equal.

The approved gate valve adaptor is "6 Base Multi-Fit Adaptor", manufactured by Adaptor, Inc. or an approved equal.

**C Construction**

Use methods that conform to Chapter 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

Install 6-Inch and 8-Inch valves and valve box as designated on plans.

Consolidate backfill by flooding as described in Section 2.6.14 of the latest edition of The City of West Allis Addendum.

**D Measurement**

The department will measure Valve (Size) by each individual valve, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Valve 6-Inch	EACH
SPV.0060.09	Valve 8-Inch	EACH

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, and backfill.

**42. Hydrant, Item SPV.0060.10.**

**A Description**

This special provision describes furnishing and installing Hydrants at locations identified in the plans.

**B Materials**

Use materials conforming to Chapter 8.18 and 8.22 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish water main pipe, fittings, polyethylene wrap, pipe bedding material and backfill as specified in plans.

Supply the hydrant, 6" valve and valve box. Hydrants shall be Kennedy Guardian, Mueller Centurian A-423, Clow Medallion or approved equal. 6" Valves shall be Kennedy 157, Mueller C-2360, Clow F6111 or approved equal. Gate valve boxes shall be 6860 screw type, manufactured by Tyler or pre-approved equal. The approved gate valve adaptor is "6 Base Multi-Fit Adaptor", manufactured by Adaptor, Inc. or an approved equal. Approved equals shall meet the requirements listed in the latest edition of The City of West Allis Addendum.

All hydrants 1997 or newer shall remain the property of the City of West Allis. The water department will pick these hydrants up.

**C Construction**

Use methods that conform to Chapter 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

Install hydrant, 6" valve, valve box and water main pipe required to connect to the main, as specified on the plan. The standard placement of the hydrant is 4' behind the proposed face of curb or just in front of walk where the terrace is less than 4' wide. The existing hydrant shall be removed after the new hydrant is in service.

Install hydrants with the steamer nozzle section perpendicular to the street where practical. The cost of modifying the hydrants shall be included in the unit price bid for installing hydrants. Install the hydrant so that the center of the lowest nozzle, the steamer nozzle, is a minimum of 18" from the plan grade (top of curb grade) and no greater than 24" from the plan grade. In addition, the flange of the hydrant should not be below grade. Tighten nuts and bolts on all valves and hydrants.

Consolidate backfill by flooding as described in Section 2.6.14 of the latest edition of the City of West Allis Addendum. Install at locations designated on the plan sheets.

**D Measurement**

The department will measure Hydrant by each hydrant, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Hydrant	EACH

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, backfill, and modifying hydrants to the proposed grade.

**43. Adjust Water Valve Box, Item SPV.0060.11.**

**A Description**

This special provision describes adjusting, protecting, and maintaining accessibility, for the duration of the paving project, to all City of West Allis water service boxes and water valve boxes located within the project limits.

**B (Vacant)**

**C Construction**

Adjust water valve boxes up and down as required by contractor operations. Set the finished valve box in a plumb, vertical position flush with the pavement or terrace, whichever applies.

Upon completion of the paving, the City of West Allis Water Department will inspect all water facilities to ensure the water boxes are clean, properly aligned, accessible, and functional. If the city determines the valve is inoperable due to displacement of faulty adjusting or lack of protection, perform all work necessary to correct the condition and make the valve operational at the contractor's own expense and within five working days of notification by the city.

**D Measurement**

The department will measure Adjust Water Valve Box as each unit, acceptably completed, regardless of the number and amount of adjustments made to the valve box.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.11	Adjust Water Valve Box	EACH

Payment is full compensation for furnishing and installing all required materials, excavation, backfilling, disposal of surplus materials, water box adjustments, water box clean-out, and restoration of the work site.

**44. Water Main Connection, 6-Inch, Item SPV.0060.12;  
Water Main Connection, 8-Inch, Item SPV.0060.13.**

**A Description**

This special provision describes the installation of the Water Main Connections, 6-Inch and 8-Inch.

**B Materials**

Use materials conforming to Chapter 8.18 and 8.22 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish water main pipe, fittings, polyethylene wrap, pipe bedding material and backfill as specified in plans.

**C Construction**

Use methods that conform to Chapter 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

Consolidate by flooding as described in Section 2.6.14 of the latest edition of The City of West Allis Addendum.

Install at locations designated in the plan.

**D Measurement**

The department will measure Water Main Connection, (Size) by each connection, acceptably completed. This measurement includes up to 6 linear feet of ductile iron water main.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.12	Water Main Connection, 6-Inch	EACH
SPV.0060.13	Water Main Connection, 8-Inch	EACH

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, and backfill.

**45. Water Service 3-Inch, Item SPV.0060.14;  
Water Service 4-Inch, Item SPV.0060.15;  
Water Service Reconnect 6-Inch, Item SPV.0060.16.**

**A Description**

This special provision describes the installation of water service 3-Inch and 4-Inch, and water service reconnect 6-Inch.



**B Materials**

Use materials conforming to Chapter 8.18 and 8.22 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, with the latest edition of the City of West Allis Addendum, and as supplemented as follows:

Furnish water main pipe, valve, valve box, fittings, polyethylene wrap, pipe bedding material and backfill as specified in plans.

**C Construction**

Use methods that conform to Chapter 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, with the latest edition of the City of West Allis Addendum, and supplemented as follows:

Install 3", 4", and 6" valves, valve boxes, fittings, and water pipe as specified on the plan.

Consolidate backfill by flooding as described in Section 2.6.14 of the latest edition of the City of West Allis Addendum.

The locations designated in the plan are to the best of city records. Determine the exact location of the existing service as it is exposed.

**D Measurement**

The department will measure Water Service, 3-Inch; Water Service, 4-Inch; and Water Service Reconnect, 6-Inch by each unit, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Water Service, 3-Inch	EACH
SPV.0060.15	Water Service, 4-Inch	EACH
SPV.0060.16	Water Service Reconnect, 6-Inch	EACH

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, and backfill.

**46. Marking Symbol Grooved Bike Lane Preformed Thermoplastic, Item SPV.0060.17; Marking Arrow Grooved Bike Lane Preformed Thermoplastic, Item SPV.0060.18.**

**A Description**

This special provision describes furnishing, grooving and installing preformed thermoplastic pavement markings as shown on the plans, according to standard spec 646 and as hereinafter provided.

**B Materials**

Furnish 125 mils preformed thermoplastic pavement marking from Ennis Flint, Swarco Industries Preformed Thermoplastic, or approved equal. If required, furnish sealant material recommended by the manufacturer.

Furnish a copy of the manufacturer's specifications and recommendations to the engineer before preparing the pavement marking grooves.

**C Construction**

**C.1 General**

For quality assurance, provide the engineer evidence of manufacturer training in the proper placement and installation of preformed thermoplastic pavement marking.

Plane the grooved areas 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

## C.2 Grooving

Replace standard spec 646.3.2.3.1(1) and (2) with the following:

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, use a depth plate placed in the groove and a straightedge placed across the plate and groove, or use a straightedge placed perpendicular to the groove. The department may periodically check groove depths.

Cut the groove one-inch wider than the width of the pavement marking. The start and end of the initial and final groove may be 0 to 4 inches from the perimeter of the pavement marking. Use a high-pressure air blower to clean the groove.

Groove at a minimum of 4-inches from the perimeter of the special markings. Groove separate areas for Arrow and Symbol Items.

## C.3 Groove Cleaning

Cooling the cutting head with water may be necessary for some applications and equipment. If cooling water is necessary, flush the groove immediately with 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, after removal of excess water, and prior to pavement marking application. Clean and dry the groove for proper application of the sealant, and placement of the pavement marking. 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; use of the air blower does not decrease the amount of time required for the groove to dry.

## C.4 Marking Application

Prepare the pavement surface and apply preformed thermoplastic in the groove per manufacturer specifications. Preheat the surface, if necessary, based on manufacturer's recommendation.

## D Measurement

The department will measure Marking Symbol Grooved Bike Lane Preformed Thermoplastic and Marking Arrow Grooved Bike Lane Preformed Thermoplastic as each individual pavement marking item, 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.0060.17	Marking Symbol Grooved Bike Lane Preformed Thermoplastic	EACH
SPV.0060.18	Marking Arrow Grooved Bike Lane Preformed Thermoplastic	EACH

Payment is full compensation for cleaning and preparing the pavement surface; furnishing and installing the material; and for removing temporary pavement marking, if necessary.

## 47. Bench, Item SPV.0060.19.

### A Description

This special provision describes furnishing and installing Benches as shown on the plans, and as hereinafter provided.

### B Materials

Benches shall be the Plainwell 72-inch bench by Landscape Forms, Inc. with aluminum insert style, center arm option, surface mountable; color to be Black with graffiti resistant clearcoat added.

No Substitutions.

Shop Drawings: Include on shop drawings, dimensions, mounting hardware, and color.

Approval of shop drawings by Traci Gengler, City of West Allis, (414) 302-8372, is required prior to beginning construction.

**C Construction**

The installation of the Benches shall be according to the manufacturer’s instructions. The benches are to be surface mounted to concrete sub-base below pavers as recommended by manufacturer and as indicated on Typical Site Furniture Mounting Detail.

**D Measurement**

The department will measure Bench as each individual bench, 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.0060.19	Bench	EACH

Payment is full compensation for furnishing and delivering all materials, including stainless anchors, non-corrosive pins, non-corrosive mounting plate; for all necessary excavation.

**48. Trash Receptacle, Item SPV.0060.20.**

**A Description**

This special provision describes furnishing and installing Trash Receptacles as shown on the plans, and as hereinafter provided.

**B Materials**

Trash Receptacles shall be the Plainwell litter, 35-gallon capacity by Landscape Forms, Inc. with side opening option, aluminum selection; black polyethylene liner, rotomold Polyethylene top, surface mountable option and signage selection #14 “Trash Only”, black and white color. Receptacle color to be Black with graffiti resistant clearcoat added.

No Substitutions.

Shop Drawings: Include on shop drawings, dimensions, mounting hardware, and color.

Approval of shop drawings by Traci Gengler, City of West Allis, (414) 302-8372, is required prior to beginning construction.

**C Construction**

The installation of the Trash Receptacles shall be according to the manufacturer’s instructions. The Trash Receptacles are to be surface mounted to concrete sub-base below pavers as recommended by manufacturer and as indicated on Typical Site Furniture Mounting Detail.

**D Measurement**

The department will measure Trash Receptacle as each individual receptacle, 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	Trash Receptacle	EACH

Payment is full compensation for furnishing and delivering all materials, including stainless anchors, non-corrosive pins, non-corrosive mounting plate; and for all necessary excavation.

**49. Recycling Receptacle, Item SPV.0060.21.**

**A Description**

This special provision describes furnishing and installing Recycling Receptacles as shown on the plans, and as hereinafter provided.

**B Materials**

Recycling Receptacles shall be the L999-06026: Plainwell litter, 35-gallon capacity by Landscape Forms, Inc. with side opening option, aluminum selection with 5" diameter hole and no opening on other side, (1) recycle sign; black polyethylene liner, rotomold Polyethylene top, surface mountable option and signage selection #10 "recyclable" with logo, blue color. Receptacle color to be Black with graffiti resistant clearcoat added.

No Substitutions.

Shop Drawings: Include on shop drawings, dimensions, mounting hardware, and color.

Approval of shop drawings by Traci Gengler, City of West Allis, (414) 302-8372, is required prior to beginning construction.

**C Construction**

The installation of the Recycling Receptacles shall be according to the manufacturer's instructions. The Recycling Receptacles are to be surface mounted to concrete sub-base below pavers as recommended by manufacturer and as indicated on Typical Site Furniture Mounting Detail.

**D Measurement**

The department will measure Recycling Receptacle as each individual receptacle, 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	Recycling Receptacle	EACH

Payment is full compensation for furnishing and delivering all materials, including stainless anchors, non-corrosive pins, non-corrosive mounting plate; and for all necessary excavation.

**50. Bicycle Rack, Item SPV.0060.22.**

**A Description**

This special provision describes furnishing and installing Bicycle Racks as shown on the plans, and as hereinafter provided.

**B Materials**

Bicycle Racks shall be Model # 2115 with custom "West Allis" cut-out lettering and bike logo, as Manufactured by Saris Cycling Group (608) 274-6550. Color to be Black with graffiti resistant clearcoat added. Direct-embed rack into concrete sub-base below pavers.

No Substitutions.

Shop Drawings: Include on shop drawings, dimensions, mounting hardware and color.

Approval of shop drawings by Traci Gengler, City of West Allis, (414) 302-8372, is required prior to beginning construction.

**C Construction**

The installation of the Bicycle Racks shall be according to the manufacturer's instructions. The Bicycle Racks are to be surface mounted as indicated in streetscape details.

**D Measurement**

The department will measure Bicycle Racks as each individual rack, 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	Bicycle Rack	EACH

Payment is full compensation for furnishing and delivering all materials, including stainless anchors, non-corrosive pins, non-corrosive mounting plate; and for all necessary excavation.

**51. Round Steel Sign Post System, Item SPV.0060.23.**

**A Description**

Work under this item includes furnishing and installing signposts and post anchors at the locations shown on the plans and according to the requirements of standard spec 634, the plans, and as hereinafter provided. All signposts shall be round tubular steel and installed as shown in the plans.

**B Materials**

Furnish a round steel post with 2-3/8" outer diameter to the length necessary for sign placement, a Tapco V-loc post anchor for new concrete (Tapco item #034-00082), and a set of two sign mounting Z-brackets (Tapco item #037-00005) or a set of two double sided sign mounting Z-brackets (Tapco item #037-00012B) that fits a 2-3/8" post.

**C (Vacant)**

**D Measurement**

The department will measure Round Steel Sign Post System by each system, 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	Round Steel Sign Post System	EACH

Payment is full compensation for providing all materials including post, anchor, mounting brackets, and all related hardware; for installing the anchors and adapters; for placing the posts; treating cut post ends; and for removing and disposing of surplus material.

**52. Catmint, Walker's Low 1 Gal CG, Item SPV.0060.24;  
Daylily, Strawberry Candy 1 Gal CG, Item SPV.0060.25;  
Daylily, Hyperion 1 Gal CG, Item SPV.0060.26.**

**A Description**

This section describes furnishing and planting plants of the species, varieties and sizes specified and includes furnishing all necessary materials, excavating plant holes, backfilling, preparing Planting Mixture, mulching, fertilizing, watering, heeling in, disposing of surplus and waste materials, and as necessary, care and required replacements pending acceptance at the locations shown on the plans, according to standard spec 632, and as hereafter provided.

**B Materials**

All plant material shall conform to standard spec 632.2. All plants shall be from within the states of Wisconsin, Minnesota, Michigan or parts of northern Illinois located within Zone 4 of the "plant hardiness zone map" produced by the US Department of Agriculture, unless otherwise approved by engineer.

Conform to standard spec 632.2.2.4 regarding plant substitutions.

**C Construction**

For plant beds areas indicated on Drawings to receive Backfill for Plant Beds - 24-Inch Depth, prepare planting beds as directed in SPV.0035.01 Backfill for Plant Beds - 24-Inch Depth. For all other plant bed areas, prepare planting bed Backfill Material and Planting Mixture according to standard spec 632. Construction shall conform to the requirements of standard spec 632.3.

**D Measurement**

The department will measure (Perennial name) by each planting, acceptably completed.

## E Payment

The department will pay for measured quantities at the contract unit price under the following bid item (all Perennials to be one-gallon container-grown stock):

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.24	Catmint, Walker's Low 1 Gal CG	EACH
SPV.0060.25	Daylily, Strawberry Candy 1 Gal CG	EACH
SPV.0060.26	Daylily, Hyperion 1 Gal CG	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 mulch; and for disposing of all excess and waste materials.

### 53. Feather Reed Grass 1 Gal CG, Item SPV.0060.27; Prairie Dropseed, Tara Dwarf 4" Pot CG, Item SPV.0060.28; Switchgrass, Shenandoah 1 Gal CG, Item SPV.0060.29.

#### A Description

This section describes furnishing and planting plants of the species, varieties and sizes specified and includes furnishing all necessary materials, excavating plant holes, backfilling, preparing Planting Mixture, mulching, fertilizing, watering, heeling in, disposing of surplus and waste materials, and as necessary, care and required replacements pending acceptance at the locations shown on the plans, according to standard spec 632, and as hereafter provided.

#### B Materials

All plant material shall conform to standard spec 632.2. All plants shall be from within the states of Wisconsin, Minnesota, Michigan or parts of northern Illinois located within Zone 4 of the "plant hardiness zone map" produced by the US Department of Agriculture, unless otherwise approved by engineer.

Conform to standard spec 632.2.2.4 regarding plant substitutions.

#### C Construction

For plant beds areas indicated on Drawings to receive Backfill for Plant Beds - 24-Inch Depth, prepare planting beds as directed in SPV.0035.01 Backfill for Plant Beds - 24-Inch. For all other plant bed areas, prepare planting bed Backfill Material and Planting Mixture according to standard spec 632. Construction shall conform to the requirements of standard spec 632.3.

#### D Measurement

The department will measure (Ornamental grass name) as each individual planting, acceptably completed.

## E Payment

The department will pay for measured quantities at the contract unit price under the following bid item (all Ornamental Grasses to be one-gallon container-grown stock):

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.27	Feather Reed Grass 1 Gal CG	EACH
SPV.0060.28	Prairie Dropseed, Tara Dwarf 4" Pot CG	EACH
SPV.0060.29	Switchgrass, Shenandoah 1 Gal CG	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 mulch; and for disposing of all excess and waste materials.

- 54. Daffodil, Dutch Master Min 4” Circ Bulb, Item SPV.0060.30;  
Daffodil, Yellow Jonquils Min 4” Circ Bulb, Item SPV.006031;  
Tulip, Albert Heijn Min 4” Circ Bulb, Item SPV.0060.32.**

**A Description**

This section describes furnishing and planting Spring Bulbs of the species, varieties and sizes specified and includes furnishing all necessary materials, excavating plant holes, backfilling, mulching, watering, heeling in, disposing of surplus and waste materials, and as necessary, care and required replacements pending acceptance at the locations shown on the plans, according to standard spec 632, and as hereafter provided.

**B Materials**

All plant material shall conform to standard spec 632.2.

Conform to standard spec 632.2.2.4 regarding plant substitutions.

**C Construction**

Construction shall conform to the requirements of standard spec 632.3.

Provide bulbs at rate and in locations indicated on Drawings. Install and provide bulb food or bone meal as directed on Landscape Detail # 1 – Bulb Planting Detail.

**D Measurement**

The department will measure (Spring Bulb) as each individual bulb, 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	Daffodil, Dutch Master Min 4” Circ Bulb	EACH
SPV.0060.31	Daffodil, Yellow Jonquils Min 4” Circ Bulb	EACH
SPV.0060.32	Tulip, Albert Heijn Min 4” Circ Bulb	EACH

Payment is full compensation for providing, transporting, handling, storing, placing and replacing plant materials; for excavating all plant holes, adding bulb food or bone meal; and for disposing of all excess and waste materials.

- 55. Concrete Base Type 5, 24-Inch, Item SPV.0060.33;  
Concrete Base Type 5, 30-Inch, Item SPV.0060.34.**

**A Description**

Work under this item includes constructing concrete bases of the identified size and locations shown on the plans according to the requirements of standard spec 654, and as hereinafter provided.

**B Materials**

Use materials conforming standard spec 654.2

**C Construction**

Construct concrete bases conforming to standard spec 654.3 and according to the details shown in the plans. Construct concrete bases at the locations and specified diameters in the plans. Prior to construction, document the size and layout of the existing light pole concrete base bolt circles. Install bolt circle layouts in the new bases and new hardware to accept existing light poles being moved to the new concrete bases.

**D Measurement**

The department will measure Concrete Base Type 5 (Size) by each individual concrete 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.0060.33	Concrete Base Type 5, 24-Inch	EACH
SPV.0060.34	Concrete Base Type 5, 30-Inch	EACH

Payment for the concrete base bid items is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor templates, rods, nuts, and washers; for bar steel reinforcement; and for excavating, drilling, and backfilling; and for providing and removing casing.

**56. 6-Inch PVC Storm Sewer Lateral, Item SPV.0090.01;  
8-Inch PVC Storm Sewer Lateral, Item SPV.0090.02.**

**A Description**

This special provision describes the construction of 6-Inch and 8-Inch PVC storm sewer laterals.

**B Materials**

Use materials conforming to Chapter 8.10 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of the City of West Allis Addendum, and as supplemented as follows:

Storm sewer laterals shall be SDR 35 PVC pipe meeting ASTM D3034 standards, for various pipe sizes as indicated on the plan.

**C Construction**

Use construction methods conforming to standard spec 608.

**D Measurement**

The department will measure (Size) PVC Storm Sewer Laterals by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	6-Inch PVC Storm Sewer Lateral	LF
SPV.0090.02	8-Inch PVC Storm Sewer Lateral	LF

Payment is full compensation for furnishing and placing all materials, including pavement removal, excavation, pipe bedding and backfill.

**57. Concrete Curb & Gutter Integral 31-Inch, Item SPV.0090.03.**

**A Description**

This special provision describes the construction of Concrete Curb and Gutter Integral 31-Inch.

**B (Vacant)**

**C Construction**

Construct Concrete Curb and Gutter Integral 31-Inch according to the requirements in standard spec 601.3 and as shown on the plans.

**D Measurement**

The department will measure Concrete Curb and Gutter Integral 31-Inch 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.0090.03	Concrete Curb & Gutter Integral 31-Inch	LF



Payment is full compensation for providing Concrete Curb and Gutter Integral 31-Inch in accordance with standard spec 601.5.

**58. Sanitary Sewer Relay SDR 35 PVC SP 8-Inch, Item SPV.0090.04.**

**A Description**

This special provision describes the construction of 8-inch Sanitary Sewer Relays.

**B Materials**

Use materials conforming to Chapter 8.10 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish sewer pipe, adaptors, fittings, bedding material and backfill to complete the relay as specified in the plans.

**C Construction**

Use methods that conform to Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

Consolidate backfill by flooding as described in Section 2.6.14 of the latest edition of The City of West Allis Addendum.

Install relay at locations designated in the plan. The lateral connection locations designated in the plan are shown to the best of city records. Determine the exact location of the laterals as the existing services are exposed.

The City of West Allis is acquiring MMSD and WDNR approvals for the proposed sanitary sewer relay work. No work shall begin on the sanitary sewer relays until such approval has been granted. Contact Robert Hutter at (414) 587-1699 to confirm approvals have been obtained.

**D Measurement**

The department will measure Sanitary Sewer Relay SDR 35 PVC SP by the linear foot, acceptably completed, from center of manhole to center of manhole or to connection point at existing main.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Sanitary Sewer Relay SDR 35 PVC SP 8-inch	LF

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, removal of existing manholes and existing main, pipe bedding, and backfill.

**59. Building Sanitary Sewer 6-Inch, Item SPV.0090.05.**

**A Description**

This special provision describes the construction of Building Sanitary Sewer 6-Inch.

**B Materials**

Use materials conforming to Chapter 8.10 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish sewer pipe, adaptors, fittings, bedding material and backfill to complete the relay as specified in the plans.

Flexible couplings with stainless steel shear ring and clamps meeting ASTM C 1173 standards shall be used to connect existing Clay pipe to new PVC pipe. PVC couplings shall be used to connect existing PVC pipe to proposed PVC pipe. All couplers shall be approved by the engineer before installation.

**C Construction**

Use methods that conform to Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

Building Sanitary Sewer 6-Inch shall be installed to relay existing sanitary service as shown on the plan. In-line wye connections shall be installed on sanitary sewer relays to reconnect existing sanitary sewer laterals presently in service and/or as directed by the engineer. The locations of the existing sanitary sewer laterals are shown based on available records and actual locations may vary. Existing laterals shall be reconnected using appropriate bends and approved adapters as directed by the engineer. Existing sanitary laterals shall be located prior to installing the new wye connections or risers in relay sections.

Inspect the existing lateral at the connection point to verify that pipe is in good condition and free of obstruction and report the inspection to the engineer prior to making the final connection.

Sanitary laterals shall be relayed so there is at least 6” between the bottom of the proposed storm sewer and the top of the proposed building sewer.

Consolidate backfill by flooding as described in Section 2.6.14 of the latest edition of The City of West Allis Addendum.

**D Measurement**

The department will measure Building Sanitary Sewer 6-Inch by the linear foot, acceptably completed, from center of manhole or sanitary main, to the end of the pipe laid.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.05	Building Sanitary Sewer 6-Inch	LF

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, and backfill. No additional payment shall be made for any exploratory work needed to locate existing sanitary laterals.

**60. Water Main Relay, 6-Inch, Item SPV.0090.06;  
Water Main Relay, 8-Inch, Item SPV.0090.07.**

**A Description**

This special provision describes the installation of Water Main Relays, 6-Inch and 8-Inch.

**B Materials**

See “Notice to Contractor – City of West Allis Water Appendix & Testing.” Pipe material may either be Ductile Iron Pipe in conformance to AWWA C-151 Special Class 53, or C-900 DR-18 or less in conformance with AWWA C-900, ASTM D-3139, and ASTM F-477 for sizes 4” through 12”.

Use materials conforming to Chapter 8.18 and 8.22 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish water main pipe, fittings, polyethylene wrap, pipe bedding material and backfill as specified in plans.

**C Construction**

The City of West Allis is acquiring WDNR approvals for the proposed water main relay work. No work shall begin on the water main until such approval has been granted. Contact Robert Hutter at (414) 302-8373 to confirm approvals have been obtained.

Use methods that conform to Chapter 4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

Consolidate backfill by flooding as described in Section 2.6.14 of the latest edition of The City of West Allis Addendum.

Install at locations designated in the plan. Tracer wire is needed on a pipe if C-900 is used.

**D Measurement**

The department will measure Water Main Relay, (Sizze) by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.06	Water Main Relay, 6-inch	LF
SPV.0090.07	Water Main Relay, 8-inch	LF

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, and backfill.

**61. Water Service Copper 1-Inch, Item SPV.0090.08;  
Water Service Copper 2-Inch, Item SPV.0090.09.**

**A Description**

This special provision describes the installation of Water Service Copper 1-Inch and 2-Inch.

**B Materials**

Use materials conforming to Chapter 8.24 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish copper water service pipe, pipe bedding material and backfill as specified in plans.

Supply the corporation, curb stop with curb box and the adaptor to connect to the existing lead service on site. Corporations shall be Ford FB600 Series, McDonald 74701B Series or Mueller B25000 Series. Curb Stops shall be full port, ball valve, and copper tube size compression fitting. Acceptable models are Mueller B-25155, Ford B44, or A.Y. McDonald 76100. Curb Boxes shall be "Minneapolis Pattern" manufactured by A.Y. McDonald, model #5614 or #5615, or approved equal.

When reconnecting to existing lead services, a No-Contact Lead Pak compression coupling shall be used to prevent direct contact of the lead plumbing line with other metallic water system components.

**C Construction**

Use methods that conform to Chapter 5 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, the AWWA C600-93 and supplemented as follows:

Tap all connections, install the copper pipe, curb stop, curb box and adaptor to complete the service installation as designated on the plans. See "Notice to Contractor – City of West Allis Water Appendix & Testing" regarding tap information.

Backfill shall be consolidated by flooding as described in Section 2.6.14 of the latest edition of The City of West Allis Addendum.

The locations designated in the plan are to the best of city records. Determine the exact location of the services as they are verified in the field.

**D Measurement**

The department will measure Water Service Copper (Size) by the linear foot, acceptably completed from the center of the water main to the curb stop. The copper service pipe used on the house side of the curb stop for reconnection to the existing private service line is incidental to the water service copper items.

The cost of all taps shall be included in the price bid for linear feet of service. Water tapping fees are not required for this project.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.08	Water Service Copper 1-Inch	LF
SPV.0090.09	Water Service Copper 2-Inch	LF

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, backfill, and taps.

## 62. Precast Concrete Planter Curbing, Item SPV.0090.10.

### A Description

This special provision describes furnishing and installing fabricated precast concrete curbing and associated connection hardware according to the dimensions, elevations and details as shown on the plans and provided in the contract. Construction work includes the excavation and removal of existing material from project site in order to accommodate placement of new precast concrete curbing.

### B Materials

Precast concrete components shall include cement that is processed from ASTM C150 Type 1-Portland Cement. Sand shall be according to ASTM C33. Water shall be according to ASTM C330. Air entrainment admixture shall be according to ASTM C260.

Color to be Dynamic Color Solutions #52A Desert Buff using white Portland cement.

Reinforcement shall be epoxy coated according to A775, with strength and size commensurate with precast concrete curbing design.

Surface finish aggregate: clean, smooth finish from single source throughout conforming to ASTM C33.

Sealant: Color to match precast concrete.

Related components include fabricated galvanized steel anchor bolts capable of anchoring precast concrete curbs to a minimum depth of 2 inches into substrate. Connection plates shall be fabricated from galvanized steel to the following dimensions of 1/4 inch by 4 inches by 6 inches.

Shop Drawings: Submit detailed shop drawings of all precast concrete curbing showing typical cross sections and profile; including precast piece configuration, size, and layout for each individual planter. Details shall show all reinforcing and special hardware required for fastening curb sections together in the field.

Samples: Submit two 3-inch by 5-inch sample pieces of precast concrete curb illustrating color, surface finish and texture to Traci Gengler, City of West Allis, (414) 302-8372, for approval prior to construction.

Mock-up: Construct mock-up for one entire planter including connection hardware and joint sealer to be approved by Traci Gengler, City of West Allis, (414) 302-8372.

Approval of mock-up is required prior to beginning construction. Failure to receive mock-up approval may result in rejection of work. The approved mock-up will be the standard from which the work will be judged and approved by the department. Incorporate accepted mockup as part of work.

Locate mock-up where directed by department.

Notify the department and the City of West Allis seven days in advance of dates and times when mockups will be constructed.

Qualifications: Precast concrete manufacturer and trade contractor must have a minimum of 5 years of successful experience on projects of similar magnitude and complexity to that of this Project. Manufacturer and contractor to be prequalified prior to bidding.

Manufacturer to supply a written Quality Assurance Program and Procedure Manual.

## C Construction

Factory fabrication shall be produced using fabricated steel forms for quality control of uniformity and dimensions to the detailed size as shown on the plans. Curbing shall be free of fins, honeycombing and other irregularities. Curbing shall be fabricated with straight and accurate edges and surfaces.

Precast Concrete Curb installation:

1. Excavate area to required depth and dimensions as indicated on plans and remove spoils from project site.
2. Compact placed aggregate materials to achieve compaction of 95 percent modified Proctor density.
3. Place units without damage to shape or finish. Replace damaged panels.
4. Connect precast concrete curb units using galvanized steel plates with stainless steel anchors.
5. Plates shall be rigidly secured to prevent any movements.
6. Erect units level and plumb within allowable tolerances.
7. Align and maintain uniform horizontal and vertical joints as erection progresses. Set vertical units dry, without grout, attaining joint dimension with lead or plastic spacers. Pack grout to base of unit.
8. When units require adjustment beyond design or tolerance criteria, discontinue affected work; advise engineer.
9. Seal perimeter and intermediate joints.
10. Erection Tolerances
  - Exposed vertical joint dimension: 1/4-inch
  - Exposed horizontal perimeter joint dimension: 1/2-inch
  - Maximum variation from plane of location: 1/4-inch in 10 feet
  - Maximum offset from indicated alignment between two connecting units: 1/8-inch
  - Joint tolerance: plus or minus 1/8-inch

## D Measurement

The department will measure Precast Concrete Planter Curbing 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.0090.10	Precast Concrete Planter Curbing	LF

Payment is full compensation for furnishing and installing fabricated precast concrete curbing and connection hardware and fasteners; and for furnishing all shop drawings, samples, mock-ups.

## 63. 3x12 Concrete Pavers over Concrete Base, Item SPV.0165.01.

### A Description

This special provision describes installing all of the concrete base at paver areas, bituminous tack coat and paver setting bed; for cutting of the concrete pavers to fit and setting the concrete pavers as shown on the plans; providing and installing dowel bars as per streetscape details; providing PVC piping and filter fabric at weep holes as per streetscape details, and as hereinafter provided. Construction work includes the excavation and removal of existing material from project site in order to construct the concrete base.

## B Materials

Concrete base for paver areas to be provided as indicated on Streetscape Details and as described in Wisconsin standard spec 602 Concrete Sidewalks.

Concrete Paver Manufacturer: Wausau Tile Inc. Contact Jeff Gramling (715) 359-5441.

Paver Type: Concrete pavers to be 3"x12"x2" Hess Pavers with spacer lugs and chamfered edges, according to ASTM C936, hydraulically pressed concrete of 8,500 psi minimum, 28 day compressive strength. No Substitutions.

Freeze Thaw Cycles: Resistant to 50 freeze-thaw cycles when tested to ASTM C67.

Moisture absorption: Less than 4%.

Paver Color & finish: 3x12 Paver Color A (Paver fields) to be HRS-35  
3x12 Paver Color B (Perimeter soldier course) to be HRS-65

Style: Interlocking.

Paving Pattern: Provide paving pattern as indicated on Streetscape Details.

Bituminous Setting Bed for interlocking concrete pavers shall be made from the following materials:

- Asphalt cement to be used on the bituminous setting bed shall conform to ASTM Designation D-3381 with a viscosity grade AC 20 OR AR-8000. If not available, use material conforming to ASTM D6373 and a performance grade PG 58-28 which is best suited to colder climates.
- The fine aggregate to be used in the bituminous setting bed shall be clean, hard sand with durable particles and free from adherent coatings, lumps of clay, alkali salts and organic matter. It shall be uniformly grades from "course" to "fine" and all passing the No. 4 sieve and meet the gradation requirements when tested according to the standard of test for sieve or screen analysis of fine and course aggregates ASTM Designation C-136-81.
- The dried fine aggregate shall be combined with hot asphalt cement, and the mix shall be heated to approximately 300 degrees F at an asphalt plant. The approximate proportion of materials shall be 7 percent asphalt cement and 93 percent fine sand. Each ton shall be apportioned by weight in the approximate ratio of 145 pounds asphalt to 1,855 pounds of sand. Determine the exact proportions to produce the best possible mixture for construction of the bituminous setting bed to meet construction requirements.

Sand for joints shall be NextGel polymeric sand as manufactured by TechniSeal or approved equal. Color shall be Slate Grey. Joint sand color to be approved by Traci Gengler, City of West Allis at time of Samples & Mock-up, see requirements below for more information.

PVC Weeps: PVC schedule 40, 2-inch diameter.

Extra Materials: Provide enough material for paving as shown on Drawings, including pieces to be cut.

Supply 20 extra of each paver size and color as replacement pavers for City of West Allis. Deliver to City of West Allis as directed by Traci Gengler, City of West Allis.

Shop Drawings: Indicate on shop drawings, layout of pavers, special paving pattern layout, layout of curbs and borders, dimensions of paved areas, control joints, expansion joints, elevations and affected adjacent construction.

Product Data: Submit data on characteristics of paver unit, dimensions, special shapes and setting materials.

Samples: Submit the following samples illustrating style, color range, surface finish and texture to Traci Gengler, City of West Allis, (414) 302-8372, for approval prior to construction:

- Two full-sized samples of each 3x12 paver color.
- Minimum 2-square inch polymeric sand sample for final color verification. Provide a minimum of three additional polymeric sand sample colors that are close to the specified color; to be used as alternate options in the case that the specified color does not visually work with the sample pavers.

Mock-up: Construct mock-up, as scheduled below, including bituminous setting bed, concrete pavers, curbs and concrete header, approved joint sand color, control joints, expansion joint and accessories to pattern indicated:

Concrete paver paving layout as indicated on Streetscape Detail # 13 "Typical Layout Plan at roadway corner and terrace area", size to be minimum 6 feet by 6 feet to show typical 90 degree herringbone paving pattern (Color A) and perimeter paver soldier course (Color B) at edges of paver field.

Approval of mock-up by Traci Gengler, City of West Allis, (414) 302-8372, is required prior to beginning construction. Failure to receive mock-up approval may result in rejection of work. The approved mock-up will be the standard from which the work will be judged and approved by the engineer. Incorporate accepted mockup as part of work.

Locate mockup where directed by the engineer.

Notify the engineer and the City of West Allis seven days in advance of dates and times when mockups will be constructed.

Qualifications:

Manufacturer: Company specializing in manufacturing products specified in this section with minimum of ten years documented experience.

Paver Installation Contractor: Contractor must have a minimum of 5 years of documented, successful concrete paver experience on projects of similar magnitude and complexity to that of this project.

### **C Construction**

Install the concrete paver base as described in standard spec 602.

Placing bituminous setting bed for interlocking concrete pavers:

- To install the setting bed over the base surface, place ½" deep control bars directly over the base. Grade must be adjusted by placing plastic shims under depth control bars to proper grade. Set two bars parallel to each other approximately 9 foot 6 inches apart to serve as guides for striking board (10'x2"x4"). The depth control bars must be set carefully to bring the pavers, when laid, to proper grade.
- Place some bituminous bedding material between the parallel depth control bars. Pull this bed with the striking board over these bars several times. After each passage, low porous spots must be showered with fresh bituminous material to produce a smooth, firm and even setting bed. As soon as this initial panel is completed, advance the first bar to the next position, in readiness for striking the next panel.
- Carefully fill up any depressions that remain after removing the depth control bar and plastic shims while asphalt is still hot and before compaction.
- The setting bed shall be rolled with a power roller to a nominal depth of ¾" while still hot. The thickness shall be adjusted so that when the interlocking concrete pavers are placed, the top surface of the pavers will be at the required finished grade, approximately 3/16" above the adjacent surface.

Install aluminum paver edge restraint as indicated in the streetscape details before placing concrete paver paving. Use paver edge restraints along all unrestrained paver edges.

Installation of interlocking concrete pavers:

1. After the neoprene modified asphalt adhesive is applied, carefully place the pavers by hand in straight courses with hand tight joints and uniform top surface. Good alignment must be kept and install the concrete pavers in patterns as shown in the plans.

Lay concrete pavers over concrete base, Base Aggregate Open Graded, ¾" Bituminous Setting Bed, Tack Coat and Neoprene Modified Asphalt Adhesive. Pavers shall slope evenly and be flush with the surrounding masonry. The face of the pavers shall be flush with the finished street or sidewalk surface. Maximum variation of surface flatness: 1/8-inch. Maximum variation of brick joints: 1/32-inch.

Concrete Pavers:

Place paver units in pattern as shown in the plans from straight reference line. Place any cut pavers for perimeter courses in middle of runs. Machine saw partial units. Maintain tight joints between pavers and at abutting vertical surfaces and protrusions. Maintain uniform joint width of 1/16-inch between pavers and at abutting vertical surfaces and protrusions. Install full-depth expansion joints as indicated on Drawings. Form control and expansion joints as detailed with sealant and backing rod. Form control joints in concrete 3/8-inch

wide. Form expansion joints in concrete pavers 3/8-inch wide. Place polymeric sand according to sand manufacturer's written specifications.

Cleaning:

Do not clean pavers until pavers and mortar are dry for minimum of three days. Clean soiled surfaces using cleaning solution. Do not harm pavers, joint materials or adjacent surfaces. Use non-metallic tools in cleaning operations. Rinse surfaces thoroughly with clean water. Broom clean paving surfaces. Dispose of excess sand.

Do not permit traffic over unprotected paver surface for seven days. Protect with plywood sheets as necessary.

#### **D Measurement**

The department will measure 3x12 Concrete Pavers over Concrete Base in area 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.0165.01	3x12 Concrete Pavers Over Concrete Base	SF

Payment is full compensation for furnishing and installing all Concrete Paver Paving, concrete base, bituminous tack coat, setting bed, polymeric joint sand, 2-inch PVC weeps, filter fabric, expansion joint materials, dowel bars, steel reinforcing, and all associated hardware; for all excavation and removal of existing material from site; and for furnishing all extra material, shop drawings, samples, and mock-ups as described herein.

### **64. 6x24 Concrete Pavers over Concrete Base, Item SPV.0165.02.**

#### **A Description**

This special provision describes installing all of the concrete base at paver areas, bituminous tack coat and paver setting bed; for cutting of the concrete pavers to fit and setting the concrete pavers as shown on the plans; providing and installing dowel bars as per streetscape details; providing PVC piping and filter fabric at weep holes as per streetscape details, and as hereinafter provided. Construction work includes the excavation and removal of existing material from project site in order to construct the concrete base.

#### **B Materials**

Concrete base for paver areas to be provided as indicated on Streetscape Details and as described in Wisconsin standard spec 602 Concrete Sidewalks.

Concrete Paver Manufacturer: Wausau Tile Inc. Contact Jeff Gramling, (715) 359-5441.

Paver Type: Concrete pavers to be 6"x24"x2" Hess Pavers with spacer lugs and chamfered edges, according to ASTM C936, Hydraulically pressed concrete of 7,500 psi minimum, 28-day compressive strength. No Substitutions.

Freeze Thaw Cycles: Resistant to 50 freeze-thaw cycles when tested to ASTM C67.

Moisture absorption: Less than 6%.

Paver Color & finish: 6x24 Paver Color to be TB-45 (Wood texture pavers in roadway terrace areas)

Style: Interlocking.

Paving Pattern: Provide paving pattern as indicated on Streetscape Details.

Bituminous Setting Bed for interlocking concrete pavers shall be made from the following materials:

- Asphalt cement to be used on the bituminous setting bed shall conform to ASTM Designation D-3381 with a viscosity grade AC 20 OR AR-8000. If not available, use material conforming to ASTM D6373 and a performance grade PG 58-28 which is best suited to colder climates.



- The fine aggregate to be used in the bituminous setting bed shall be clean, hard sand with durable particles and free from adherent coatings, lumps of clay, alkali salts and organic matter. It shall be uniformly grades from “course” to “fine” and all passing the No. 4 sieve and meet the gradation requirements when tested according to the standard of test for sieve or screen analysis of fine and course aggregates ASTM Designation C-136-81.
- The dried fine aggregate shall be combined with hot asphalt cement, and the mix shall be heated to approximately 300 degrees F at an asphalt plant. The approximate proportion of materials shall be 7 percent asphalt cement and 93 percent fine sand. Each ton shall be apportioned by weight in the approximate ratio of 145 pounds asphalt to 1,855 pounds of sand. Determine the exact proportions to produce the best possible mixture for construction of the bituminous setting bed to meet construction requirements.

Sand for joints shall be NextGel polymeric sand as manufactured by TechniSeal, or approved equal. Color shall be Nordic Grey. Joint sand color to be approved by Traci Gengler, City of West Allis at time of Samples & Mock-up, see requirements below for more information.

PVC Weeps: PVC schedule 40, 2-inch diameter.

Extra Materials: Provide enough material for paving as shown on Drawings, including pieces to be cut.

Supply 20 extra of each paver size and color as replacement pavers for City of West Allis. Deliver to City of West Allis as directed by Traci Gengler, City of West Allis.

Shop Drawings: Indicate on shop drawings, layout of pavers, special paving pattern layout, layout of curbs and borders, dimensions of paved areas, control joints, expansion joints, elevations and affected adjacent construction.

Product Data: Submit data on characteristics of paver unit, dimensions, special shapes and setting materials.

Samples: Submit the following samples illustrating style, color range, surface finish and texture to Traci Gengler, City of West Allis, (414) 302-8372, for approval prior to construction:

- Two full-sized samples of 6x24 paver.
- Minimum 2-square inch polymeric sand sample for final color verification. Provide a minimum of three additional polymeric sand sample colors that are close to the specified color; to be used as alternate options in the case that the specified color does not visually work with the sample pavers.

Mock-up: Construct mock-up, as scheduled below, including bituminous setting bed, concrete pavers, curbs and concrete header, approved joint sand color, control joints, expansion joint and accessories to pattern indicated:

6x24 Concrete paver paving layout as indicated on Streetscape Detail # 13 “Typical Layout Plan at roadway corner and terrace area”, minimum 4 feet long by full terrace width to show paver pattern and adjacent curb and sidewalk.

Approval of mock-up by Traci Gengler, City of West Allis, (414) 302-8372, is required prior to beginning construction. Failure to receive mock-up approval may result in rejection of work. The approved mock-up will be the standard from which the work will be judged and approved by the engineer. Incorporate accepted mockup as part of work.

Locate mockup where directed by engineer.

Notify the engineer and the City of West Allis seven days in advance of dates and times when mockups will be constructed.

Qualifications:

Manufacturer: Company specializing in manufacturing products specified in this section with minimum of ten years documented experience.

Paver Installation Contractor: Contractor must have a minimum of 5 years of documented, successful concrete paver experience on projects of similar magnitude and complexity to that of this project.

## C Construction

Install the concrete paver base as described in standard spec 602.

Placing bituminous setting bed for interlocking concrete pavers:

- To install the setting bed over the base surface, place 1/2" deep control bars directly over the base. Grade must be adjusted by placing plastic shims under depth control bars to proper grade. Set two bars parallel to each other approximately 9 foot 6 inches apart to serve as guides for striking board (10'x2"x4"). The depth control bars must be set carefully to bring the pavers, when laid, to proper grade.
- Place some bituminous bedding material between the parallel depth control bars. Pull this bed with the striking board over these bars several times. After each passage, low porous spots must be showered with fresh bituminous material to produce a smooth, firm and even setting bed. As soon as this initial panel is completed, advance the first bar to the next position, in readiness for striking the next panel.
- Carefully fill up any depressions that remain after removing the depth control bar and plastic shims while asphalt is still hot and before compaction.
- The setting bed shall be rolled with a power roller to a nominal depth of 3/4" while still hot. The thickness shall be adjusted so that when the interlocking concrete pavers are placed, the top surface of the pavers will be at the required finished grade, approximately 3/16" above the adjacent surface.

Install aluminum paver edge restraint as indicated in the streetscape details before placing concrete paver paving. Use paver edge restraints along all unrestrained paver edges.

Installation of interlocking concrete pavers:

1. After the neoprene modified asphalt adhesive is applied, carefully place the pavers by hand in straight courses with hand tight joints and uniform top surface. Good alignment must be kept and install the concrete pavers in patterns as shown in the plans.

Lay concrete pavers over concrete base, Base Aggregate Open Graded, 3/4" Bituminous Setting Bed, Tack Coat and Neoprene Modified Asphalt Adhesive. Pavers shall slope evenly and be flush with the surrounding masonry. The face of the pavers shall be flush with the finished street or sidewalk surface. Maximum variation of surface flatness: 1/8-inch. Maximum variation of brick joints: 1/32-inch.

Concrete Pavers:

Place paver units in pattern as shown in the plans from straight reference line. Place any cut pavers for perimeter courses in middle of runs. Machine saw partial units. Maintain tight joints between pavers and at abutting vertical surfaces and protrusions. Maintain uniform joint width of 1/16-inch between pavers and at abutting vertical surfaces and protrusions. Install full-depth expansion joints as indicated on Drawings. Form control and expansion joints as detailed with sealant and backing rod. Form control joints in concrete 3/8-inch wide. Form expansion joints in concrete pavers 3/8-inch wide. Place polymeric sand according to sand manufacturer's written specifications.

Cleaning:

Do not clean pavers until pavers and mortar are dry for minimum of three days. Clean soiled surfaces using cleaning solution. Do not harm pavers, joint materials or adjacent surfaces. Use non-metallic tools in cleaning operations. Rinse surfaces thoroughly with clean water. Broom clean paving surfaces. Dispose of excess sand.

Do not permit traffic over unprotected paver surface for seven days. Protect with plywood sheets as necessary.

## D Measurement

The department will measure 6x24 Concrete Pavers over Concrete Base in area 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.0165.02	6x24 Concrete Pavers Over Concrete Base	SF

Payment is full compensation for furnishing and installing all Concrete Paver Paving, concrete base, bituminous tack coat, setting bed, polymeric joint sand, 2-inch PVC weeps, filter fabric, expansion joint materials, dowel bars, steel reinforcing, and all associated hardware; for all excavation and removal of existing material from site; and for furnishing all extra material, shop drawings, samples, and mock-ups as described herein.

**65. High Friction Green Surfacing, Item SPV.0165.03.**

**A Description**

This special provision describes providing furnishing and applying a high friction surfacing system according to this Section and in conformity with the lines and details shown on the plans. The field installed system shall consist of a Methyl Methacrylate (MMA) resin system that is used for pavement area markings and anti- skid surfacing to provide high friction resistance and the desired color. The color of the High Friction Colored Surface shall be Bike Lane Green.

The manufacturer’s technical representative shall come to the construction site to train department and contractor personnel prior to surface treatment and shall be available during application as necessary.

**B Materials**

**General:** Use Color-Safe Pavement Marking with Anti-Skid Surface by Transpo Industries or an approved equal. Use a MMA based resin system capable of retaining an aggregate topping under vehicular traffic conditions. Install High Friction Colored Surface according to manufacturer’s specifications.

The MMA based resin system shall comply with chromaticity requirements according to MUTCD Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes.

**MMA Based Resin System:** The MMA based resin system shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Tensile Strength @ 7 days, psi, minimum	1000	ASTM D 638
Hardness, Shore D, minimum	80	ASTM D 2240
Gel Time, minutes, minimum	10	ASTM D 2471
Cure Rate, hours, maximum	3	Film@ 75°F
Water Absorption @ 24 hours, max.	0.25%	ASTM D 570

**Aggregate:** The aggregate shall be high friction crushed Bauxite, Granite, or gravel. The aggregate will be delivered to the construction site in clearly labeled bags or sacks. The aggregate shall be clean, dry and free from foreign matter. The aggregate shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Aggregate Abrasion Value,	maximum 20	LA Abrasion
Aggregate Grading,		
No 6 Sieve Size,	minimum passing, 95%	
No 16 Sieve Size,	maximum passing, 5%	
Aggregate Color Green		

**Certification:** Finished surface shall have a minimum 60 FN40R according to ASTM E274) of vehicular bearing surface using the modified epoxy binder.

## C Construction

**General:** Apply High Friction Colored Surface according to manufactures specifications.

**Preparation:** Prepare surfaces so that they are clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the epoxy binder material and existing surfaces. The manufacturer's representative will determine if all surfaces have been adequately cleaned.

Protect utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location against the application of the surface treatment materials. Cover and protect all existing pavement markings that are adjacent to the application surfaces as directed by the engineer. Remove by grinding any pavement markings that conflict with the surface application and thoroughly sweep or vacuum the surface clean prior to the epoxy binder application.

Pre-treat joints and cracks greater than 1/4 inches in width and depth with the mixed epoxy specified herein or by using an alternative procedure proposed by the manufacturer and agreed upon by the engineer. Proceed with the epoxy binder and aggregate topping installation once the epoxy, in the pre-treated areas, has gelled or once the alternative procedure has been accomplished.

For applications on new pavements, install the high friction epoxy binder and aggregate topping a minimum of 20 days after the placement of the underlying and adjacent pavement.

**Mixing and Application of MMA based resin system and Aggregate Wearing Course:** Utilize one of the following methods for the application of the MMA based resin system, as applicable.

- a. **Hand mixing and application:** Proportion the MMA based resin system as recommended by the manufacturer, and mix using a low speed, high torque drill fitted with a helical stirrer. Hand-apply the mixed components onto a prepared pavement surface at a thickness recommended by the manufacturer. Uniformly spread hand-applied base binder onto the substrate surface by means of a serrated edge squeegee.
- b. **Mechanical mixing and application:** Apply the MMA based resin system material by a truck mounted application machine onto the pavement section to be treated in varying widths at a uniform application thickness. Proceed with operations in such a manner that will not allow the MMA based resin system material to separate in the mixing lines, cure, dry, or otherwise impair retention bonding of the high friction surfacing aggregate. Apply the mixed components mechanically onto the prepared pavement surface with a uniform thickness of 50 to 100 mils. Immediately, mechanically apply the high friction surfacing aggregate in a uniform, continuous manner.

For either of the above methods, do not use vibratory or impact type compaction on the aggregate after placement. Use only lightweight rollers to seat the aggregate topping without crushing the aggregate. Complete coverage of the "wet" MMA based resin system material with aggregate is necessary to achieve a uniform surface. No exposed wet spots shall be visible once the aggregate is placed.

**Curing:** Allow the high friction aggregate topped MMA based resin system to cure according to manufacturer recommendations. Protect treated surfaces from traffic and environmental effects until the area has cured.

**Removal of Excess Aggregate:** Remove the excess aggregate by hand brooms, mechanical sweeping, or vacuum sweeping before opening to traffic. Excess aggregate can be reused on the following day's installation, provided the aggregate is clean, uncontaminated, and dry.

The engineer may require additional mechanical or vacuum sweeping as necessary after the system fully cures and the treated surface is open to traffic.

## PERFORMANCE REQUIREMENTS

**Raveling and Delamination:** Remove and replace high friction colored surface treatment that ravel, delaminates, or wears off within 90 days after placement, unless approved to remain in place by the engineer. The limits of removal and replacement shall be approved by the engineer. The replaced high friction colored surface treatment shall meet the requirements of this sub-article.

**Warranty:** The MMA based resin system material shall be installed per plans and specification. The engineer will notify the contractor within 48 hours of installation regarding any of the MMA based resin system material that is installed not to specification or to the satisfaction of the engineer. Non-conforming MMA based resin system material shall be removed at no charge to the city and replaced with conforming product.

The warranty period in reference to the following points is to be 1 year from date of installation. Warranty of the following items shall be submitted in writing by the contractor or his installer prior to the pre-construction meeting.

- The MMA based resin system material will maintain its original color in the surface area throughout the 'warranty period' with the exception of natural weathering, tire and dirt deposits and abnormal markings applied after installation.
- Friction will achieve a minimum BPN of 60 according to ASTM E-303.
- The MMA based resin system material will maintain its skid resistance qualities in 100% of its surface area to never fall below a BPN of 60 during the 'warranty period'.
- With the exception of structural cracking or excessive movement of the surface beneath the two-part modified epoxy material will not be subject to excessive cracking in its surface.

#### **D Measurement**

The department will measure High Friction Green Surfacing in area by the square foot, acceptably completed. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any public utility appurtenances within the area.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.03	High Friction Green Surfacing	SF

Payment is full compensation furnishing and installing High Friction Green Surfacing materials including any re-application or repair required under the Performance Requirements and Warranty as provided herein.

### **66. Wall Modular Block Gravity Landscape, STA. 9+40, Item SPV.0165.04.**

#### **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 shall 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 Gravity Landscape Wall systems. 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 department maintains a list of pre-approved proprietary wall systems. See the approved products list titled "Proprietary Retaining Wall System Vendors." 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 department also maintains a separate list of plants pre-approved by the department to provide wall facing units. See the approved products list titled "Precast Concrete and Block Fabricators." The identity of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

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 closing 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 at the following email address: [DOTDLStructuresFabrication@dot.wi.gov](mailto:DOTDLStructuresFabrication@dot.wi.gov).

To be eligible to provide wall facing units for this project, a block manufacturing plant must be pre-approved by the Bureau of Technical Services and added to that list prior to the bid closing date. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Technical Services at the following email address: [DOTProductSubmittal@wisconsin.gov](mailto:DOTProductSubmittal@wisconsin.gov).

## **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 conforms to 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-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form DT2329 with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. 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 WisDOT project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11 inch sheets, and shall 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 wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications 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 in AASHTO 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 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 (front face to back face) shall be included in the design computations and shown on the wall shop drawings. Blocks must have a minimum width of 8 inches. Block widths may vary among courses but shall consist of only a single block. 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.

Wall 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 below finished grade, or as given on the plans. All walls shall be provided with a concrete or base aggregate leveling pad. Minimum wall embedment does not include the leveling pad depth. 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.

Wall facing units shall be installed on a leveling pad.

### **B.3 Wall System Components**

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation 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. Furnish concrete produced by a dry-cast or wet-cast process. Concrete for all blocks shall not contain less than 565 pounds of cementitious materials per cubic yard. The contractor may use cement conforming to standard spec 501.2.1 or may substitute for portland cement at the time of batching conforming to standard spec 501.2.6 for fly, 501.2.7 for slag, or 501.2.8 for other pozzolans. In either case the maximum total supplementary cementitious content is limited to 30% of the total cementitious content by weight.

Dry-cast concrete blocks shall be manufactured according to ASTM C1372 and this specification.

All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are broken, have cracks wider than 0.02" and longer than 25% of the nominal height of the unit, chips larger than 1", have excessive efflorescence, or are otherwise deemed unacceptable by the engineer, shall not be used within the wall. A single block front face style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan.

The top course of facing units shall be as noted on the plans, either;

- Solid precast concrete unit designed to be compatible with the remainder of the wall. 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. A cap of this type shall have texture, color, and appearance, as noted on the plans. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap at a maximum spacing of 20 feet unless noted otherwise on the plan. Use Grade A 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.

Block dimensions may vary no more than  $\pm 1/8$  inch from the standard values published by the manufacturer. Blocks must have a minimum width (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 1 3/4 inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

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.

All block materials shall be furnished palletted and banded, with every pallet marked for quantity, lot number, lot size, manufacturing plant, and manufacturing date(s). Materials furnished loose or unmarked will be rejected. Rejected materials shall be removed from the project at no cost to the department.

### B.3.1.1 Material Testing

Perform or procure quality control testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140 or ASTM C39 <sup>[4]</sup>	5000 min.	4000 min.
Air Content (%)	AASHTO T152 <sup>[4]</sup>	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140 <sup>[3]</sup>	6 max.	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262 <sup>[1][2][3]</sup>	1.0 max. 1.5 max.	N/A

- [1] Test shall be run using a 3% saline solution and blocks greater than 45 days old.
- [2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.
- [3] An independent testing laboratory shall control and conduct all sampling and testing under ASTM C140/Water Absorption and ASTM C1262. Prior to sampling, the manufacturer shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. 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.
- [4] The manufacturer may perform their own quality control testing under ASTM C140/Compressive Strength, ASTM C39, and AASHTO T152, if qualified for this work under the requirements for plant certification.

The contractor and fabricator shall coordinate with the independent testing agent (if used) to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot furnished.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast)
- Name and location of testing facility
- Name of sampling technician
- Lot number, lot size, and date(s) of fabrication

Quality control testing of project materials shall be completed not more than 18 months prior to delivery. Lot size shall not exceed the maximum testing frequencies, which shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or 1 day's production for wet-cast blocks. Test results will 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 reports will be rejected and shall be removed from the project at no expense to the department.

Nonconforming materials will be subject to evaluation according to standard spec 106.5.

### B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete or base aggregate leveling pad. Use Grade A 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. Use Base Aggregate Dense 1 1/4-Inch conforming to standard spec 305.



The minimum width of the concrete 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. The minimum thickness of the leveling pad shall be 6-inches.

The minimum width of the base aggregate leveling pad shall be as wide as the proposed blocks plus 12-inches, and the modular blocks centered on the leveling pad. The minimum thickness of the leveling pad shall be 12-inches after compaction.

### **B.3.3 Backfill**

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate Size No. 1 as given in standard spec 501.2.5.4. 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.

A layer of Geotextile Type "DF" (Schedule B) shall be placed vertically between the backfill and the Type A backfill. The geotextile shall extend from the top of the leveling pad to 6 inches below the surface of the retained soil. The geotextile shall then wrap across the top of the Type A backfill to the back of block wall facing.

Backfill placed between retained soil and Type A backfill shall comply with the requirements for Granular Backfill Grade 1 as contained in 209.2.2 of the standard spec. The contractor may substitute Type A Backfill for Granular Backfill Grade 1.

## **C Construction**

### **C.1 Excavation and Backfill**

Excavation and preparation of the foundation for the 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, after compaction. 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**

#### **C.3.1 General**

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.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete or base aggregate leveling pad as shown on the plans. Vertical tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. Allow the concrete to set at least 12 hours prior to placing wall facing units.

The bottom row of wall facing units shall be horizontal and 100% of the unit surface shall bear on the leveling pad.

### C.4 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan.

### D Measurement

The department will measure Wall Modular Block Gravity Landscape by the square foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

### 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.0165.04	Wall Modular Block Gravity Landscape, STA. 9+40	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, leveling pad, and leveling pad steps; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

The department will pay separately for railings, and other items above the wall cap or coping.

## 67. Shredded Hardwood Bark Mulch, Item SPV.0180.01.

### A Description

This special provision describes furnishing and installing Shredded Hardwood Bark Mulch as shown on the plans, and as hereinafter provided. Minimum mulch thickness shall be 3-inches.

### B Materials

Shredded Hardwood Bark Mulch shall be natural, shredded hardwood bark mulch, free of growth or germination inhibiting ingredients, and shall be no larger than 4-inches in any dimension, and suitable for top dressing of planting beds. No artificial coloration shall be added.

Samples: Submit sample demonstrating color, size and properties to engineer, for approval prior to construction.

### C Construction

The installation of the Shredded Hardwood Bark Mulch shall be according to the plans and details. Keep mulch minimum 2-inches away from all tree trunks, woody stems and herbaceous shoots.

### D Measurement

The department will measure Shredded Hardwood Bark Mulch by square yard, acceptably completed.

### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Shredded Hardwood Bark Mulch	SY

Payment is full compensation for furnishing and installing all Shredded Hardwood Bark Mulch.

## **68. Management of Solid Waste, Item SPV.0195.01.**

### **A General**

#### **A.1 Description**

This work will conform with the requirements of standard spec 205; to pertinent parts of the Wisconsin Administrative Code, Chapters NR 700-736 Environmental Investigation and Remediation of Environmental Contamination; Wisconsin Administration Code, Chapters NR 500-538, Solid Waste; and as shown on the plans and as supplemented herein.

Soil considered to be solid waste due to lead and low-level petroleum will be encountered within the construction limits. The solid waste may contain NR 500 non-exempt industrial wastes including soil mixed with foundry sand. Impacted waste material excavated during construction which cannot in the opinion of the environmental consultant be managed as common excavation or as petroleum-contaminated soil for bioremediation will be managed as solid waste.

This work consists of excavating, segregating, temporary stockpiling, loading, hauling, and disposing of solid waste material at a WDNR-approved disposal facility. The nearest WDNR-approved disposal facilities are:

Green For Life (GFL) Emerald Park Landfill  
W124S10629 South 124th Street  
Muskego, WI 53150  
(414) 529-1360

Waste Management Orchard Ridge Landfill  
W124 N9355 Boundary Road  
Menomonee Falls, WI 53051  
(866) 909-4458

Provide information to the environmental consultant and engineer that indicates the WDNR-approved disposal facility that the contractor will use.

#### **A.2 Notice to the Contractor–Solid Waste Locations**

The department and others completed hazardous materials assessment for locations within this project where excavation is required. Investigation for soil contamination was conducted at select locations. Results indicate that solid waste (soil contaminated with lead and low-level petroleum) is present at the following locations as shown on the plans:

- Station 13+45 to 13+80 from 10 feet left of reference line to project limits left, from approximately 1 to 8 feet below grade. The estimated volume of contaminated soil to be excavated at this location is 163 CY (approximately 278 tons using a conversion factor of 1.7 tons per cubic yard).
- Station 13+40 to 13+80, from 10 feet right of reference line to project limits right, from approximately 4 to 10+ feet below grade. The estimated volume of contaminated soil to be excavated at this location is 19 CY (approximately 33 tons using a conversion factor of 1.7 tons per cubic yard).

Directly load solid waste soil excavated by the project at the above locations into trucks that will transport the material to a WDNR-licensed landfill facility for landfill disposal.

If obviously contaminated soils or signs of NR 500 non-exempt solid waste and hazardous materials are unexpectedly encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Examples of these unexpected conditions may include, but are not limited to, buried containers or tanks, noxious odors and fumes, stained soils, sheen on ground water, other industrial wastes, and significant volumes of municipal or domestic garbage.

If dewatering is required at the above locations, conduct the dewatering according to Section C below.

If active groundwater monitoring wells are encountered during construction, notify the engineer and protect the wells to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For wells that do not need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

### **A.3 Excavation Management Plan Approval**

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities in these areas contact:

Name: Andrew Malsom  
Address: 141 NW Barstow Street, Waukesha, WI 53187-0798  
Phone: (262) 548-6705  
Fax: (262) 548-6891  
E-mail: [andrew.malsom@dot.state.wi.us](mailto:andrew.malsom@dot.state.wi.us)

### **A.4 Coordination**

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation  
Address: 6737 W. Washington St., Suite 2100, West Allis, WI 53214  
Contact: Bryan Bergmann  
Phone: (262) 901-2126 office, (262) 227-9210 cell  
Fax: (262) 879-1220  
E-mail: [bbergmann@trccompanies.com](mailto:bbergmann@trccompanies.com)

The role of the environmental consultant will be limited to:

1. Determining the location and limits of solid waste to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying soils to be hauled to the landfill facility;
3. Documenting that activities associated with management of solid waste are in conformance with the solid waste management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of solid waste from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the area of solid waste fill described in A.2 to the environmental consultant. Identify the WDNR licensed landfill facility that will be used for disposal of solid waste and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation in the impacted area or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of the solid waste.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation in the impacted areas. Notify the environmental consultant at least three calendar days prior to commencement of excavation in the impacted areas. Perform excavation in the impacted areas on a continuous basis until excavation work is completed. Do not transport soil containing solid waste offsite without prior approval from the environmental consultant.

### **A.5 Health and Safety Requirements**

*Supplement standard spec 107.1 with the following:*

During excavation activities, expect to encounter historic fill contaminated with industrial waste (foundry sand) and associated regulated metals and organic compounds. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each impacted areas as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

**B (Vacant)**

**C Construction**

*Supplement standard spec 205.3 with the following:*

Control operations in the impacted areas to minimize the quantity of soil excavated.

The environmental consultant will periodically monitor soil excavated from the areas identified in A.2 above. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul solid waste soil designated by the environmental consultant for offsite disposal to the WDNR approved landfill facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of the material. Prior to transport, sufficiently dewater soils designated for off-site disposal so as not to contain free liquids.

Verify that the vehicles used to transport material are licensed for such activity according to applicable state and federal regulations. Obtain the necessary disposal facility approvals and WDNR approvals for disposal. Do not transport regulated solid waste off-site without obtaining the approval of the environmental consultant and engineer and notifying the disposal facility.

During excavations in the areas of known contamination, larger pieces of clean concrete (~2 cubic feet), asphalt and bricks shall be segregated from the fill, to the extent practical and managed as common excavation. Under NR 500.08 this material is exempt from licensing and requirements of Wisconsin Administrative Code NR 500-538 of the solid waste regulations and will be reused as designated by the engineer as fill on the project, or it will be disposed of off-site at the contractor’s disposal site(s).

If dewatering is required in areas of known contamination, water generated from dewatering activities may contain chlorinated solvents, petroleum compounds and/or metals. Such water may require analytical testing, and with approval from the City of West Allis and the Milwaukee Metropolitan Sewerage District (MMSD) be discharged to the sanitary sewer as follows:

1. Meet all applicable requirements of the City of West Allis and MMSD including the control of suspended solids. Perform all necessary monitoring to document compliance with the City of West Allis and MMSD requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with the City of West Allis and MMSD requirements.
2. Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

Groundwater with a petroleum sheen cannot be discharged to the sanitary sewer per MMSD guidelines. If dewatering is necessary where the groundwater has a sheen on the surface, the water shall be pumped into a holding tank or tanker truck for off-site testing and disposal.

Notify the engineer of any dewatering activities and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

Costs associated with excavation dewatering in contaminated areas are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of regulated solid waste from this construction project.

**D Measurement**

The department will measure Management of Solid Waste by the ton of waste, accepted by the disposal facility and as documented by weight tickets.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Management of Solid Waste	TON

Payment is full compensation for excavating, segregating, loading, hauling, and landfill disposal of solid waste; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; and dewatering of soils prior to transport, if necessary.

**69. Sanitary Manhole, 48-Inch Diameter, Item SPV.0200.01.**

**A Description**

This special provision describes furnishing and installing 48-inch diameter sanitary manholes.

**B Materials**

Use materials conforming to Chapter 8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and as supplemented as follows:

Furnish 48-inch diameter precast manhole structures, brick or concrete rings and mortar to complete the structure.

**C Construction**

Use methods that conform to Chapter 3 of the Standard Specifications for Sewer and Water Construction in Wisconsin, 6<sup>th</sup> Edition, with the latest edition of The City of West Allis Addendum, and supplemented as follows:

Consolidate backfill by flooding as described in Section 2.6.14 of the latest edition of the City of West Allis Addendum.

Construct at locations designated in the plan.

**D Measurement**

The department will measure Sanitary Manhole, 48-Inch Diameter by the vertical foot from lowest invert to top of frame of each structure, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.01	Sanitary Manhole, 48-Inch Diameter	VF

Payment is full compensation for furnishing and placing all materials, including pavement sawing, pavement removal, excavation, pipe bedding, backfill and incidental pipe to reconnect existing sewer lines.

## **ADDITIONAL SPECIAL PROVISION 1 (ASP 1) FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS) PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS**

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   4   (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   2   (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.

## II. 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.*

## III. 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 under-representation 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 (DBE) PROGRAM IMPLEMENTATION

#### Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

#### Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

- (1) The Commitment to Subcontract to DBE (Form DT1506 or digital submittal), Attachments A, and Good Faith Effort Documentation (Form DT1202) will be submitted as described in Section 2.
- (2) Any change to DBE Commitments thereafter must follow modification of DBE subcontracting commitment as described in Section 9.
- (3) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid shopping is prohibited.
- (4) The contractor must utilize the specific DBE firms listed in the approved DBE Commitment to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent in advance from WisDOT. The contractor will not be entitled to payment for any work or materials on the approved DBE Commitment that is not performed or supplied by the listed DBE without WisDOT's written consent.

#### Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's *Standard Specifications for Highway and Structure Construction* and *Construction and Materials Manual*. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The Department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

- (1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

- (2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:
- Produce accurate and complete quotes
  - Understand highway plans applicable to their work
  - Understand specifications and contract requirements applicable to their work
  - Understand contracting reporting requirements
- (3) The Department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit the Department's Civil Rights and Compliance Section website at: <http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx>

## 1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

- a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.
- b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.
- c. **DBE:** Disadvantaged Business Enterprise – A for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.
- d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal. The prime contractor will have the option to submit the DT1506 digitally, as an entry with the bid in Bid Express, or as an attachment to the bid.
- e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of the DBE Commitment, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved DBE Commitment, and those submitted after approved commitment with Attachment A.
- f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.
- g. **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.
- h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.
- i. **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.
- j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote will not be separated.

## 2. WisDOT DBE Program Compliance

### a. Documentation Submittal

- The Commitment to Subcontract to DBE (Form DT1506 or digital submittal) must be submitted at the time of bid (Tuesday) by all prime contractors.
- Attachments A OR quotes from all DBEs included in the Commitment must be submitted at bid (Tuesday) **OR**
- Within one-hour following bid submittal by ALL prime contractors via eSubmit (Tuesday).
- If only DBE quotes were submitted, all remaining signed Attachments A must be submitted within 24-hours of bid closing via eSubmit (Wednesday).
- If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) and supporting documentation must be submitted within 24-hours of bid closing (Wednesday) via eSubmit. [Instructions for eSubmit.](#)

\*\*Bidders have the option of submitting the DBE Commitment at the time of bid via direct entry through Bid Express OR with attachment of Form DT1506 (Commitment to Subcontract to DBE). The DBE Commitment entered with bid is the digital form of the DT1506. Separate submission of Form DT1506 is not required if the DBE Commitment is entered in Bid Express. Form DT1202, if applicable, is no longer required to be submitted at time of bid; submit DT1202 within the 24-hour supplemental time frame following bid closing.

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the DBE Commitment (digitally entered into the bid OR Form DT1506 as an attachment), Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

### b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

#### (1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the Department will evaluate the DBE Commitment submitted with bid OR Form DT1506, and Attachments A to verify the actual DBE percentage calculation. If the DBE Commitment is verified, the contract is eligible for award with respect to the DBE Commitment.

#### (2) DBE Goal Not Met

- a) If the bidder indicates a bid percentage on the DBE Commitment that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through submission of Form DT1202 (Documentation of Good Faith Effort) within 24-hours of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. The Department will review the bidder's DBE Commitment and evaluate the bidder's good faith efforts submission.
- b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the Department intends to:
  1. *Approve* the request (adequate documentation of GFE has been submitted) - no conditions placed on the contract with respect to the DBE Commitment;
  2. *Deny* the request (inadequate documentation of GFE has been submitted) - the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.

- c) If the Department denies the bidder's request, the contract is ineligible for award. The Department will provide a written explanation for denying the request to the bidder. The bidder may appeal the Department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted through eSubmit.

### 3. Department's Criteria for Good Faith Effort Documentation

The Federal-aid Construction Contract Provision, referenced as FHWA-1273, explicitly states that the prime contractor shall be responsible for all work performed on the contract by piecework, station work, or subcontract.

The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of the contract including assurances of equal employment opportunity laws, DBE regulations, and affirmative action. Compliance encompasses responsible and responsive action, documentation, and good faith effort.

Contractually, all contractors, subcontractors, and service providers on the contract are bound by FHWA 1273 and DBE program provisions. **Prime contractors should encourage subcontractors to utilize DBE firms whenever possible to contribute to the assigned DBE contract goal.**

Bidders are required to document good faith effort. Per 49 CFR Part 26.53, good faith effort is demonstrated in one of two ways. The bidder:

- (1) Documents that it has obtained enough DBE participation to meet the goal; OR
- (2) Documents that it made adequate good faith efforts to meet the goal, even though it did not succeed

*Appendix A* of 49 CFR Part 26 provides guidance concerning good faith efforts. WisDOT evaluates good faith effort on a contract basis just as each contract award is evaluated individually.

The efforts employed by the bidder should be those that WisDOT can reasonably expect a bidder to take to actively and aggressively obtain DBE participation sufficient to meet the DBE contract goal. The Department will only approve demonstration of good faith effort if the bidder documents the quality, quantity, and intensity of the variety of activities undertaken that are commensurate with expected efforts to meet the stated goal.

The Department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort activity. 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.

#### a. Solicitation Guidance for Prime Contractors:

- (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use WisDOT-approved DBE outreach tools, including the UCP DBE Directory and the Bid Express Small Business Network to foster DBE participation on all applicable contracts.
- (2) As needed, request assistance with DBE outreach and follow-up by contacting the Department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Phone numbers are (414) 438-4584 and/or (608) 267-3849; Fax: (414) 438-5392; E-mail: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)
- (3) Participate in and document a substantive conversation with at least one DBE firm per Let, to discuss questions, concerns, and any other contract related matters that may be applicable to the DBE firm. Guidelines for this conversation are provided in Appendix A of ASP-3.
- (4) Request quotes by identifying potential items to subcontract and solicit. In their initial contacts, contractors are strongly encouraged to include a single page, 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 B.* 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 firms to do work in a prime contractor's area of specialization.

- i. Solicit quotes from certified DBE firms who match possible items to subcontract using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which quotes are being sought to [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)
- ii. Acceptable outreach tools include SBN (Small Business Network, see Appendix C): <https://www.bidx.com/wi/main>, postal mail, email, fax, and phone.
  - a. Contractors must ask DBE firms for a response in their solicitations. See *Sample Contractor Solicitation Letter*, Appendix B. This letter may be included as an attachment to the sub-quote request.
  - b. Solicit quotes at least 10 calendar days prior to the letting date to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.
  - c. A follow up solicitation should take place within 5 calendar days of the letting date. Email and/or SBN are the preferred method for the solicitation.
- iii. 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.
- iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit, or insurance if requested.
- v. 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. Signed copy of record of subcontractor outreach effort

## b. Guidance for Evaluating DBE quotes

- (1) Quote evaluation practices required to evaluate DBE quotes:
  - i. Reasonable Price: Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price. See 49 CFR Part 26, Appendix A. IV.D(2).
- (2) Documentation submitted by the prime of the following evaluation is required to evaluate DBE quotes by contractors:
  - i. Evaluation of DBE firm's ability to perform "possible items to subcontract" using legitimate reasons, including but not limited to, **a discussion** between the prime and DBE firm regarding its capabilities prior to the bid letting. If lack of capacity is the reason for not utilizing the DBE firm's quote, the prime is required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area indicated by the NAICS code(s) listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
    - a. In striving to meet an assigned DBE contract goal, contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
    - b. Additional evaluation - Evaluation of DBE quotes with tied bid items. Typically, this type of quoting represents a cost saving but is not clearly stated as a discount. Tied quotes are usually presented as an 'all or none' quote. When non-DBE subcontractors submit tied bid items in their quotes, the DBE firm's quote may not appear competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples:

- i Compare bid items common to both quotes, noting the reasonableness in the price comparison.
- ii 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.

See Appendix D – *Good Faith Effort Evaluation Measures* and Appendix E - *Good Faith Effort Best Practices*.

- c. Requesting Good Faith Effort Evaluation** At the time of bid- if the DBE goal is not met in full, the prime contractor must indicate they will file form DT1202- Documentation of Good Faith Effort within 24-hours of bid submission. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. Supporting documentation for the DT1202 is to include the following:
- (1) Solicitation Documentation: The names, addresses, email addresses, and telephone numbers of DBE firms contacted along with the dates of both initial and follow-up contact; electronic copies of all written solicitations to DBE firms. A printed copy of SBN solicitation is acceptable.
  - (2) Selected Work Items Documentation: Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.
  - (3) Documentation of Project Information provided to interested DBEs: A description of information provided to the DBE firms regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE firm.
  - (4) Documentation of Negotiation with Interested DBEs: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts.
  - (5) Documentation of Sound Reasoning for Rejecting DBEs and copies of each quote received from a DBE firm and, if rejected, copies of quotes from non-DBEs for same items.
  - (6) Documentation of Assistance to Interested DBEs- Bonding, Credit, Insurance, Equipment, Supplies/Materials
  - (7) Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

If the Good Faith Effort documentation is deemed adequate, the request will be approved and the DBE office will promptly notify the Prime Contractor and Bureau of Project Development.

If the DBE Office denies the request, the Prime Contractor will receive written correspondence outlining the reasons. The Department encourages the Prime Contractor to communicate with DBE staff to clarify any questions related to meeting goals and/or contractor demonstration of good faith efforts.

If the contract is awarded, the Prime Contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved DBE Commitment. No contractor, prime or subsequent tier, shall be paid for completing work assigned to a DBE subcontractor on an approved DBE Commitment unless WisDOT has granted permission for the reduction, replacement, or termination of the assigned DBE in writing. If a prime contractor or a subcontractor on any tier uses its own forces to perform work assigned to a DBE on an approved DBE Commitment, **they will not be paid for the work**. Any changes to DBE Commitment after the approval of the DBE Commitment must be reviewed and approved by the DBE Office prior to the change (see Section 9).

Additional resources for demonstrating and tracking good faith effort can be found on the “Contracting with a DBE” webpage in the [ASP-3 and Good Faith Effort Guidance](#) section.

#### 4. Bidder's Documentation of Good Faith Effort Evaluation Request Appeal Process

A bidder can appeal the Department's decision to deny the bidder's demonstration of Good Faith Effort through Administrative Reconsideration. The bidder must provide a written justification refuting the specific reasons for denial as stated in the Department's denial notice. The bidder may meet in person with the Department if so requested. Failure to appeal within 5 business days after receiving the Department's written notice denying the request constitutes a forfeiture of the bidder's right of appeal. Receipt of appeal is confirmed by email date stamp or certified mail signed by WisDOT staff. A contract will not be executed without documentation that the DBE provisions have been fulfilled.

The Department will appoint a representative who did not participate in the original good faith effort determination, to assess the bidder's appeal. The Department will issue a written decision within 5 business days after the bidder presents all written and oral information. In that written decision, the Department will explain the basis for finding that the bidder did or did not demonstrate an adequate good faith effort to meet the contract DBE goal. The Department's decision is final.

#### 5. Determining DBE Eligibility

##### Directory of DBE firms

- a. The only resource for DBE firms certified in the State of Wisconsin is the Wisconsin Unified Certification Program (UCP) DBE Directory. WisDOT maintains a current list of certified DBE firms at: <http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx>
- b. The DBE Program office is available to assist with contracting DBE firms:(608) 267-3849.
- c. DBE firms are certified based on various factors including the federal standards from the Small Business Administration that assigns a North American Industrial Classification (NAICS) Codes. DBE firms are only eligible for credit when performing work in their assigned NAICS code(s). If a DBE subcontractor performs work that is not with its assigned NAICS code, the prime contractor should contact the DBE Office to inquire about compatibility with the Business Development Program.

#### 6. Counting DBE Participation

##### Assessing DBE Work

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 UCP agencies. 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:

- a. The Department counts work performed by the DBE firm's own resources. The Department includes the cost of materials and supplies the DBE firm obtains for the work. The Department also includes the cost of equipment the DBE firm leases for the work. The Department will not include the cost of materials, supplies, or equipment the DBE firm purchases or leases from the prime contractor or its affiliate, with the exception of non-project specific leases the DBE has in place before the work is advertised.
- b. The Department counts fees and commissions the DBE subcontractor charges for providing 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 program engineer deems reasonable based on experience or prevailing market rates.
- c. If a DBE firm subcontracts work, the Department counts the value of the work subcontracted to a DBE subcontractor.
- d. The contractor will maintain records and may be required to furnish periodic reports documenting its performance under this item.
- e. It is the Prime Contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.



- f. It is the Prime Contractor's responsibility to assess the DBE firm's ability to perform the work for which it is committing/contracting the DBE to do. Note that the Department encourages the Prime Contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.
- g. The Prime Contractor will inform the DBE office via email of all DBE subcontractors added to the project following execution of the contract. The Prime Contractor may omit submission of another form DT1506, but must submit signed Attachment A forms for additional DBE firms.
- h. See Section 7 for DBE credit evaluation for Trucking and Section 8 for DBE credit evaluation for Manufacturers, Suppliers, and Brokers

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, Attachment A" Email: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)

\*Note: A sublet request is required for DBE work, regardless of subcontract tier, and also for reporting materials or supplies furnished by a DBE.

- Sublet Requests via form DT1925 or WS1925 are required for 1st Tier DBEs
- For all 2nd Tier and below notification of DBE sublet is indicated by the contractor entering them in CRCS

## 7. Credit Evaluation for Trucking

All bidders are expected to adhere to the Department's current trucking policy posted on the HCCI website at: <http://wisconsin.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf>

The prime contractor is responsible for ensuring that all subcontractors including trucking firms, receive Form FHWA 1273: <https://www.fhwa.dot.gov/programadmin/contracts/1273/1273.pdf>

See Section 8 for Broker credit.

## 8. Credit Evaluation for Manufacturers, Suppliers, Brokers

The Department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The Department will count the material and supplies that a DBE firm provides under the contract for DBE credit based on whether the DBE firm is a manufacturer, supplier, or broker. Generally, DBE credit is determined through evaluation of the DBE owner's role, responsibility, and contribution to the transaction. Maximum DBE credit is awarded when the DBE firm manufactures materials or supplies. DBE credit decreases when the DBE firm solely supplies materials, and minimal credit is allotted when the DBE firm's role is administrative or transactional. It is the bidder's responsibility to confirm that the DBE firm is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506 or DBE Commitment submitted with the bid.

### a. Manufacturers

- (1) A manufacturer is 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 and of the general character described by the specifications.
- (2) If the materials or supplies are obtained from a DBE manufacturer, **100%** percent of the cost of the materials or supplies counts toward DBE goals.

### b. Regular Dealers of Material and/or Supplies

- (1) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications

and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

- (2) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.
- (3) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:
  - i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.
  - ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.
- (4) When DBE suppliers are contracted, additional documentation must accompany the DBE Commitment and Attachment A forms. An invoice or bill-of-sale that includes names of the bidder and the DBE supplier, along with documentation of the calculations used as the basis for the purchase agreement, subcontract, or invoice. WisDOT recognizes that the amount on the Attachment A form may be more or less than the amount on the invoice per b.(1) above.
  - i. The bidder should respond to the following questions and include with submission of form DT1506 or the DBE Commitment entered with bid:
    - a. What is the product or material?
    - b. Is this item in the prime's inventory or was the item purchased when contract was awarded?
    - c. Which contract line items were referenced to develop this quote?
    - d. What is the amount of material or product used on the project?
- (5) Supplies purchased in **bulk** from DBE firms at the beginning of the season may be credited to current contracts if submitted with appropriate documentation to the DBE office.
  - i. To ensure that the appropriate credit is assigned, follow the procedure below:
    - a. When DBE suppliers are contracted for bulk supply or commodity purchases, an invoice or bill-of-sale that includes names of the contractor and the DBE supplier should be submitted to the DBE Office via eSubmit (preferred during letting) or the DBE\_Alert email box. The supply/commodity credit may be applied during the federal fiscal year (October- September) in which the purchase was made.
    - b. When the contractor intends to apply the credit to a particular project, submit a copy of the original invoice, documentation of the calculations for supplies/commodities to be used on the project, and an Attachment A. Indicate on the Attachment A:
      - c. This supply/commodity is in the prime's inventory or pre-paid in case of commodities
      - d. The full value of the original invoice submitted to the DBE Office, above in (1)
      - e. The amount of material or product used on this project
      - f. Fuel estimate listed on Attachment A will be recorded as a deduction from the full fuel purchase amount shown on the invoice
  - ii. DBE Office Process (Applies only to bulk purchases)
    - a. Supply/Commodity commitment is received
    - b. Engineer verifies amount listed on invoice and enters the full amount into spreadsheet
    - c. The amount of credit applied for each project is updated on the spreadsheet until the bulk purchase is exhausted
    - d. Engineer informs contractor when full amount of bulk purchase has been applied

**c. Brokers, Transaction Expeditors, Packagers, Manufacturers' Representatives**

- (1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit. However, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies, or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions.
- (2) Brokerage fees are calculated as **10%** of the purchase amount.
- (3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees, or transportation charges for the delivery of materials or supplies required on a job site.
- (4) Evaluation of DBE credit includes review of the contract need for the item/service, the sub-contract or invoice for the item/service, and a comparison of the fees customarily allowed for similar services to determine whether they are reasonable.

**9. DBE Commitment Modification Policy (Formerly "DBE Replacement Policy")**

**a. Issuing a Contract Change Order**

Any changes or modifications to the contract once executed are considered contract modifications and as such require a change order. In addition, the DBE office must provide consent for reduction, termination, or replacement of subcontractors approved on the DBE Commitment *in advance* of the modification for the prime contractor to receive payment for work or supplies. Additions to the DBE Commitment do not require advance notification of the DBE office. (see below e. DBE Utilization beyond the approved DBE Commitment)

**b. Contractor Considerations**

- (1) A prime contractor cannot modify the DBE Commitment through reduction in participation, termination, or replacement of a DBE subcontractor listed on the approved DBE Commitment without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.
- (2) If a prime contractor reduces participation, replaces, or terminates a DBE subcontractor who has been approved for DBE credit toward its contract, the prime is required to provide documentation supporting its inability to fulfill the contractual commitment made to the Department regarding the DBE utilization.
- (3) The Prime Contractor is required to demonstrate efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE subcontractor that was terminated, to the extent needed to meet the assigned DBE contract goal. When additional opportunity is available by contract modifications, the Prime Contractor must utilize DBE subcontractors that were committed to equal work items, in the original contract.
- (4) In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason, or is terminated from a contract, the Prime Contractor must undertake efforts to maintain its commitment to the assigned DBE goal.
- (5) The DBE subcontractor should communicate with the Prime Contractor regarding its schedule and capacity in the context of the contract. If the DBE firm anticipates that it cannot fulfill its subcontract, they will advise the Prime Contractor and suggest a DBE subcontractor that may replace their services and provide written consent to be released from its subcontract.
  - i. Before the Prime Contractor can request modification to the approved DBE Commitment, the Prime Contractor must:
    - a. Make every effort to fulfill the DBE Commitment by working with the listed DBE subcontractor to ensure that the firm is fully knowledgeable of the Prime Contractor's expectations for successful performance on the contract. Document these efforts in writing.

- b. If those efforts fail, provide written notice to the DBE subcontractor of the Prime Contractor's intent to request to modify the Commitment through reduction in participation, termination, and/or replacement of the subcontractor including the reason(s) for pursuing this action.
- c. Copy the DBE Office on all correspondence related to changing a DBE subcontractor who has been approved for DBE credit on a contract, including preparation and coordination efforts.
- d. Clearly state the amount of time the DBE firm has to remedy and/or respond to the notice of intent to replace/terminate. The DBE must be allowed five days from the date notice was received as indicated by email time stamp or signed certified mail, to respond, in writing. EXCEPTION: The Prime Contractor must provide a verifiable reason for a response period shorter than five days. For example, a WisDOT project engineer or project manager confirms that WisDOT has eliminated an item the DBE subcontractor was contracted for.
- e. The DBE subcontractor must acknowledge the contract modification with written response to the Prime Contractor and the DBE Office. If objecting to the subcontract modification, the DBE subcontractor must outline the basis for objection to the proposed modification, providing sound reasoning for WisDOT to reject the prime's request.

**c. Request to Modify DBE Subcontracting Commitment**

The written request referenced above may be delivered by email or fax. The request must contain the following:

- (1) Project ID number
- (2) WisDOT Contract Project Engineer's name and contact information
- (3) DBE subcontractor name and work type and/or NAICS code
- (4) Contract's progress schedule
- (5) Reason(s) for requesting that the DBE subcontractor be replaced or terminated
- (6) Attach/include all communication with the DBE subcontractor to deploy/address/resolve work completion

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, MODIFICATION" Email: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov) + Project Engineer

WisDOT will review the request and any supporting documentation submitted to evaluate if the circumstance and the reasons constitute good cause for replacing or terminating the approved DBE subcontractor.

*Good Causes to Replace a DBE subcontractor according to the federal DBE program guidelines {49 CFR part 26.53}*

- The listed DBE subcontractor fails or refuses to execute a written contract
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215, and 1,200 or applicable state law
- The prime has determined that the listed DBE subcontractor is not a responsible contractor
- The listed DBE subcontractor voluntarily withdraws from the project and provides written notice of its withdrawal
- The listed DBE subcontractor is ineligible to receive DBE credit for the type of work required

- A DBE firm owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract.

#### d. Evaluation and Response to the Request

WisDOT's timely response to the Prime Contractor's request for modification of the approved DBE Commitment will be provided to the prime and the WisDOT project engineer via email.

If WisDOT determines that the Prime Contractor's basis for reduction in participation, replacement, or termination of the DBE subcontractor is not consistent with the good cause guidelines, the DBE office will provide a response via email within 48-hours of receipt of request from the Prime Contractor as indicated by email time stamp. The communication will include: the requirement to utilize the committed DBE, actions to support the completion of the contractual commitment, a list of available WisDOT support services, and administrative remedies, including withholding payment to the prime, that may be invoked for failure to comply with federal DBE guidelines for DBE replacement.

The WisDOT contact for all actions related to modification of the approved DBE Commitment is the DBE Program Engineer who can be reached at [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov) or (414) 335-0413.

#### e. DBE Utilization beyond the approved DBE Commitment

When the prime or a subcontractor increases the scope of work for an approved DBE subcontractor or adds a DBE subcontractor who was not on the approved form DT1506 or DBE Commitment submitted with bid at any time after contract execution, this is referred to as voluntary DBE contract goal achievement. The contractor must follow these steps to ensure that the participation is accurately credited toward the DBE goal:

- (1) Forward a complete, signed Attachment A form to the DBE Office. A complete Attachment A includes DBE subcontractor contact information, signatures, subcontract value, and description of the work areas to be performed by the DBE. The DBE Office will verify the DBE participation and revise the DBE Commitment based on the email/discussion and the new Attachment A.
- (2) When adding to an existing DBE Commitment, submit a new Attachment A to the DBE Alert mailbox
- (3) OR Submit a final Attachment A to DBE Alert during the Finals Process when Compliance receives notice of "Substantially Complete"

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, New Attachment A" Email: [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov)

#### Special note on trucking

- DBE truckers added to the sublets in CRCS *will* be approved without DBE credit (You will see a "N" in CRCS instead of "Y")
- Prime Contractors may enter a "place holder" e.g. \$1000.00, for DBE Trucking in CRCS if the full amount of trucking is unknown for sublet purposes only
- The hiring contractor may obtain the Attachment A with DBE signature included but the **Prime Contractor** must sign the Attachment A before submitting
- DBE truckers need to be added to the DBE commitment once. If the DBE trucker is on the initial commitment (DT1506/E1506) there is no requirement to submit another Attachment A for that trucker for that contract.

### 10. Commercially Useful Function

- a. Commercially Useful Function (CUF) is evaluated after the contract has been executed, while the DBE certified firm is performing contracted work items.
- b. The Department uses Form DT1011, DBE Commercially Useful Function Review and Certification to evaluate if the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.

- c. A DBE firm is performing a commercially useful function if the following conditions are met:
  - (1) For contract work, the DBE is responsible for executing a distinct portion of the work and is carrying out its responsibilities by actually performing, managing, and supervising that work.
  - (2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.
- d. Offsite Hauling – when DBE truck will haul between a pit and plant or location other than the construction site associated with the commitment
  - (1) Indicate Offsite Hauling on Attachment A
  - (2) Discuss offsite hauling at weekly progress meetings with Project Engineer (PE)
  - (3) PE conducts spot checks of pits/plants to verify DBE truck is hauling and/or verifying hauling log
  - (4) Prime should be prepared to submit haul tickets, plant/pit tickets, timecards, and other pertinent documentation if requested by PE or DBE Office

### 11. Credit Evaluation for DBE Primes

WisDOT calculates DBE credit based on the amount and type of work performed by DBE certified firms for work submitted with required documentation. If the prime contractor is a DBE certified firm, the Department will only count the work that the DBE prime performs with its own forces for DBE neutral credit. The Department will also calculate DBE credit for work performed by any other DBE certified subcontractor, DBE certified supplier, and DBE certified manufacturer on the contract in each firm's approved NAICS code/work areas that are submitted with required documentation. Crediting for manufacturers and suppliers is calculated consistent with Section 8 of this document and 49 CFR Part 26.

### 12. Joint Venture

A joint venture is an association of a DBE firm and one or more other firms to carry out a single, for-profit business enterprise, for which the parties combine their property, capital, efforts, skills and knowledge, and in which the DBE is responsible for a distinct, clearly defined portion of the work of the contract and whose share in the capital contribution, control, management, risks, and profits of the joint venture are commensurate with its ownership interest. If a DBE performs as a participant in a joint venture, the Department will only credit the portion of the total dollar value of the contract equal to the portion of the work that the DBE performs with its own forces.

### 13. 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. DBE credit is evaluated and confirmed by the DBE Office for any contracts on which the mentor-protégé team identifies itself to the DBE Office as a current participant of the Mentor-Protégé Program.
  - (1) DBE credit may only be awarded to a non-DBE mentor firm for using its own protégé firm for less than one half of its goal on any contract; and
  - (2) Not award DBE credit to a non-DBE mentor firm for using its own protégé firm for more than every other contract performed by the protégé firm.
- c. A DBE protégé firm may be eligible for conditional NAICS code extension for training with the mentor. Request permission from the DBE Office- Certification area.
- d. Refer to WisDOT's Mentor-Protégé guidelines for guidance on the number of contracts and amount of DBE credit allowed on WisDOT projects.

#### 14. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE subcontractor, a prime contractor, and the regular dealer or materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE firm in cases where the DBE subcontractor and materials have been approved for DBE credit. The DBE subcontractor gains the opportunity to establish a direct contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE firm is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE firm must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

- a. The Prime Contractor must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
  - (1) Request should be made when the DBE Commitment or the Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
  - (2) Approval/Permission must be granted prior to the issuance of any joint checks.
  - (3) The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
  - (4) The joint check for supplies must be strictly for the cost of approved supplies.
- b. The DBE subcontractor is responsible for furnishing and/or installing the material/work item and is not an 'extra participant' in the transaction. The DBE firm's role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor's tasks should include the following:
  - (1) The DBE subcontractor (not the prime/payor) negotiates the quantities, price, and delivery of materials.
  - (2) The DBE subcontractor consents to sign/release the check to the supplier by signing the [Application to Use Joint Checks](#) after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.
- c. The Prime contractor/payor acts solely as a guarantor.
  - (1) The Prime Contractor agrees to furnish the check used for the payment of materials/supplies under the contract.
  - (2) The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractor's negotiated unit price.

#### 15. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

## Appendix A

### Substantive Conversation Guidelines

The substantive conversation is critical to all bidders' demonstration of good faith effort to meet the DBE goal prior to bid opening. Relationship building between primes and subcontractors is crucial to DBE goal attainment. Responsible bidders seek to build rapport with potential DBE subcontractors to understand capacity, areas of expertise, and assess contracting feasibility. Bidders who compete for WisDOT contracts are specialty contractors responding to a growing and changing contract environment. Just as these specialists are responsible for care of the roads, they are likewise responsible for contributing to the health of the industry. The substantive conversation drives collaboration that will build industry health and capacity. The following is intended to provide guidance for such discussions but is not an exhaustive list. Contractors are encouraged to incorporate their existing strategies for cultivating business relationships as well.

Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released weeks prior to each Let)

1. Determine DBE subcontractor's interest in quoting
2. If response indicates inexperience with quoting- offer support/assistance to the DBE in understanding the industry including fundamentals a subcontractor needs to know, required reading and/or resources.
3. Assess their interest and experience in the road construction industry by asking questions such as:
  - Have you competed for other WisDOT contracts? Ratio of competed/to wins
  - Have you performed on any transportation industry contracts (locally or with other states)?
  - What the largest contract you've completed?
  - Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
  - Does this project fit into your schedule? Are you working on any contracts now?
  - Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
  - What region do you work in? Home base?
  - Which line items are you considering?
  - Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
  - Do you understand where your work fits in the project schedule, project phases?

Following Bid Opening- this discussion can happen at any time

1. After reviewing their quote, note the following in your discussion:
  - Does the quote look complete? Irregular?
  - Are there errors in the quote? Are items very high or very low?
  - In general, does the quote look competitive?
2. Questions and Advice for the bidder to share with the potential DBE subcontractor:
  - What line items would typically be in a competitive quote for a subcontractor of their specialty?
  - How many employees and what is their role/experience/expertise in your firm?
  - Do you have resources for labor (union member, family-based, community-resourced) and capital (banking relationship, bond agent, CPA)?
  - Where have you worked: cities, states, government, commercial, residential/private sector, etc. Explain similarities or differences.
  - Refer them to reliable, trusted, industry resources that can educate or connect them to relevant resources, education/certification resources, more appropriate contract opportunities.
  - Discussion about prime contract and subcontract liability, critical path items, contract quantities, schedule risks, and potential profit/loss (for upcoming known projects or in general).
  - Discussion of bonding, insurance, and overall business risk considerations.



## Appendix B

### Sample Contractor Solicitation Letter Page 1

*(This sample is provided as a guide, not a formatting requirement)*

#### DBE Solicitation - [Month] [Day], [Year] WisDOT Bid Letting

Attention all DBEs. [Prime Contractor] is actively seeking your quote for the [Month][Day], [Year] Bid Letting. [Prime Contractor] is considering bidding on the projects listed on page 2 as a prime contractor. Please see page 2 for instructions and the sub-contractable opportunities for each proposal.

**Does [Prime Contractor] accept quotes in areas we might self-perform?** Yes, we do! We support this federal rule and (if needed) we consider areas we might self-perform an opportunity to provide in the field assistance and training if we award your quote.

**Where can DBEs find the plans, specifications & addenda?** Please visit [Prime Contractor's] plan room [LINK] or on WisDOT's Highway Construction Contract Information HCCI website: [Wisconsin Department of Transportation Highway Construction Contract Information \(wisconsindot.gov\)](http://Wisconsin Department of Transportation Highway Construction Contract Information (wisconsindot.gov)). This same website can be checked for the contract status.

**What should your quote include?** All the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should also note items that you are DBE certified to perform, tied items, and any special terms. Please use page 2 as your cover sheet for your quote.

**Do you have a question regarding bonding, credit, insurance, equipment, or supplies/materials?** We welcome all DBE questions! Please call [Prime Contractor] and ask to speak with [Contact]. [Prime Contractor] can provide basic information as well as a referral to a trusted industry partner for insurance and bonding needs.

#### **When are quotes due?**

**[Month] [Day], [Year] at [Time].** We accept quotes via SBN, email, or fax. Please make every effort to have your quotes in by this time or earlier. Quality check your quote so it includes the correct letting date, project ID, proposal number, unit price and extension.

**Who can DBEs contact for questions, information, clarification or for a quote evaluation?** [Project Manager Name] [Phone] [Email]. If you are quoting [Prime Contractor] for the first time, we encourage you to come meet with us in person to discuss the project. Our office hours are 7:30 a.m. – 5:00 p.m. On bid day, we are in the office by 6:30 a.m.

#### **Why partner with [Prime Contractor]?**

DBE partnership is a core part of [Prime Contractor's] mission. Including DBEs at the beginning of each project is essential in the success of each project. We consider DBEs to be important industry partners who bring dedication and knowledge at various stages during construction. We are proud to be an industry leader with our DBE partnership. Your success as a DBE is our success.

**Sample Contractor Solicitation Letter Page 2**  
*(This sample is provided as a guide, not a formatting requirement)*  
 REQUEST FOR QUOTE

**[Prime Contractor]**  
**Letting Date: [Month] [Day], [Year]**  
**Project IDs: 1234-56-00 (Proposal #1) & 1234-01-78 (Proposal #6)**

Please check all that apply:

- Yes, we will be quoting the projects & 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 someone contact me at this number:

Prime Contractor Contact: \_\_\_\_\_ DBE: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Please circle the proposals and items you will be quoting below and contact us with any questions**

Proposal County	1 Dane County	6 Crawford County
Clearing & Grubbing	X	X
Dump Truck Hauling	X	X
Curb/Gutter/Sidewalk	X	
Erosion Control Items		X
Excavation	X	X
Pavement Marking		X
Traffic Control	X	
Sawing	X	X
QMP, Base		X
Pipe Underdrain	X	
Landscape		X
Beam Guard	X	
Electrical	X	
Signs/Posts/Markers		X
Survey/Staking		X

Again, please make every effort to have your quotes into our office by time deadline prior to the letting date.

**Sample Contractor Solicitation Email - Simplified**  
*(This sample is provided as a guide, not a formatting requirement)*

**ATTENTION DBEs**

- **[Prime Contractor] specializes in municipal projects in the XX Region(s)**
- **We have successfully competed for and completed XX WisDOT projects over the past XX years**
- **Consider [Prime Contractor] your partner on WisDOT Projects**

**[Prime Contractor] is seeking your subcontractor quote for the XX/XX/20XX WisDOT bid letting on the below projects:**

Project	Proposal	County	Region
1234-56-00	2	Dane	SW
1234-01-78	6	Crawford	SW

- Please review the attachments **[attach Solicitation Letter]** and respond with your intent to quote (or not) along with the work items you are interested in performing and respond via fax or email by **date**. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Please include labor, equipment, material, and related bonding or insurance.
- If you have any questions regarding bonding, credit, insurance, equipment and/or materials/supplies, please feel free to call [Prime Contractor] and ask for [Contact]. **(Include if your company is willing to answer these types of DBE questions)**
- Plans and Specifications can be found: **WisDOT HCCI Website: List webpage where plans are located**
- If you do choose to quote, please make every effort to have your quote into our office by **time and date**. Make sure the correct letting date, project number, unit price and extension are included in your quote.
- Should you have questions regarding the mentioned project, please call our office at (414) 555-5555 and we will direct you to the correct estimator/project manager.  
Our office hours are 7:30 a.m. - 5:00 p.m.

**Thank you – we look forward to working with your company on this project!**

**Prime Contractor**  
**Project Manager**  
 Direct: 414-555-5555  
 Cell: 414-555-5556

## Sample Contractor Solicitation Email to **non-DBE** WisDOT Subcontractors - Simplified

*(This sample is provided as a guide, not a formatting requirement)*

**ATTENTION WisDOT SUBCONTRACTORS**

**[Prime Contractor]** is considering bidding on the below projects for the **XX/XX/20XX WisDOT Bid Letting**:

Project	Proposal	County	Region	DBE Goal
1234-56-00	2	Dodge	SW	6.00%
1234-01-78	11	Adams	NC	3.00%
1234-00-99	20	Buffalo	NW	5.00%
1234-00-98	33	Portage	NC	6.00%

The above projects have DBE goals and [Prime Contractor] is committed to DBE inclusion with every project. As such, we are requesting:

- All WisDOT Subcontractors to **solicit and utilize** DBEs in your quotes.
- DBE participation can be achieved through purchasing materials from DBE suppliers, using DBE subcontractors and/or DBE trucking firms or any combination of these.
- If there is an opportunity to untie an item in your quote so a DBE can be utilized, please look for those opportunities as well.
- Your quote will be evaluated based on the amount of DBE participation your company is able to provide when compared to other quotes for the same work.

If you do choose to quote, please make every effort to have your quote into our office by **time and date**. Please submit all quotes to [Email]. Make sure the correct letting date, project number, unit price and extension are included in your quote.

Should you have questions regarding the mentioned project, the Project Manager contact is: [Name] [Phone Number] [Email]

**Thank you for utilizing DBEs who are trusted industry partners with WisDOT projects.**

Prime Contractor  
 Project Manager  
 Direct: 414-555-5555  
 Cell: 414-555-5556

## Appendix C

### 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 later completion.
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 help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs. The DBE will provide free SBN accounts to DBEs when requested. Use [DBE\\_Alert@dot.wi.gov](mailto:DBE_Alert@dot.wi.gov) to request an account. **DBE firms can:**

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 a 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](http://www.bidx.com) and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.

## Appendix D

### Good Faith Effort Evaluation Measures *by categories referenced in DBE regulations*

Bidders must demonstrate that they took all necessary and reasonable steps to achieve the assigned DBE contract goal. For each contract, all bidders must submit documentation indicating the goal has been met or if falling short of meeting the assigned goal, must request a DBE Goal Waiver and document all efforts employed to secure DBE subcontractor participation on Form DT1202.

DBE staff analyze the bidder's documented good faith efforts to determine if action taken was sufficient to meet the goal. Sufficiency is measured contract-by-contract. WisDOT evaluates active and aggressive efforts, quality, quantity, scope, intensity, and appropriateness of the bidder's efforts as a scale of the principles of Good Faith outlined in 49 CFR Part 26, Appendix A. Additional emphasis is placed on the bidder's demonstration of timely submission of documentation and communication with DBE subcontractors, and business development initiatives undertaken to support DBE firm growth.

The following is a sample of good faith effort activities that are rated according to the accompanying rubric. Contractors are encouraged to identify additional activities that align with their business type(s).

- Personal, tailored solicitation to firms that specialize in work types planned or desired for subcontracting
- Follow up to initial solicitation via email or phone
- Substantive conversation including topics such as contract liability, critical path work items, schedule risks, and potential profit/loss
- SBN utilization including posting quotes
- Review and response to DBE quotes including provision of information about plans, specifications, and requirements as applicable
- Documentation requesting subcontractors support DBE goal by solicitation and inclusion of DBE subcontractor quotes
- Responsive and timely submission of organized documentation
- Analysis of number of DBE firms who do work types that you typically subcontract
- Analysis of number of DBE firms who reside in geographical areas where prime seeks work
- Analysis of firms who express interest in bidding/quoting including the number of firms who declined your solicitation
- Reference check of DBE subcontractor work or training (documentation of questions and response required)
- Number of different efforts undertaken to meet the assigned DBE goal as documented in accompanying Form DT1202
- Submission of all DBE quotes received matched with a variety of work to be performed by DBEs
- Number and names of DBE firms provided written advice, or referral to industry-specific business development resources
- Overall pattern of DBE utilization on all WisDOT contracts which may include contracting with municipalities
- Documentation of resources expended to meet assigned DBE goal (#of hours, staff titles, average pay rate, actions taken)
- Analysis of subcontractable work items to be completed by prime beyond prime contractor's 30%
- Risk analysis of work items that are typically in tied quotes that could be unbundled
- List of contract work items in smallest economically feasible units, identifying schedule impact
- Submission of a Gap Analysis identifying DBE skillset and/or industry needs
- Staff training in EEO and Civil Rights laws as documented in training logs
- Written Capacity Assessment completed with DBE firm documenting its ability to perform the work quoted
- DBE engagement efforts beyond simple solicitation that include a substantive discussion, initiated as early in the acquisition process as possible (*points added for each day prior to letting*)
- Outreach and marketing efforts with minority, women, and veteran-focused organizations at least 10 days prior to bid opening
- Active involvement in WisDOT's Business Development Program, TrANS training, facilitated networking efforts, workshops
- Customized teaching/training efforts for future opportunities with DBE subcontractor, contract specific and/or annually
- Introduction and reference provided for DBE subcontractor to a prime who has not previously contracted with the DBE firm
- Prime utilization of a DBE subcontractor the prime has not contracted with previously
- Written referral/recommendation to bond/insurance agents, manufacturer, supplier
- Documented efforts fostering DBE participation through administrative and/or technical assistance
- Evidence of negotiation with the DBE firm about current and future Let opportunities
- Recommendation of local and state services that support small business and access to opportunity: DOA, SBA, WEDC, WPI, etc.
- Advice on bonding, lines of credit, or insurance as required to complete the items quoted and contract requirements

## GFE Evaluation Rubric – Phase 1 – Initial Review

DT1202	Examples	Rating	OBOEC Feedback
<b>Solicitation Documentation</b>	<p>Identify all reasonable and available activities performed to solicit the interest of all certified DBEs who have capacity and ability to perform work on the project.</p> <p><i>Such as: Updated solicitation letter and email, timely solicitation, and follow-up, and/or utilized various methods to communicate solicitation (ex: letter, email, publication, posting and/or website)</i></p>		
<b>Selected Work Items Documentation</b>	<p>All work items are broken out into economically feasible units to facilitate DBE participation.</p> <p><i>Such as: Selected work items are specific to each proposal and clearly identified in all solicitation(s)</i></p>		
<b>Documentation of Project Information provided to Interested DBEs</b>	<p>Provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.</p> <p><i>Such as: Project information is clearly identified in all solicitation(s)</i></p>		
<b>Documentation of Negotiation with Interested DBEs</b>	<p>Provide sufficient evidence demonstrating that good faith negotiations took place during the bid letting.</p> <p><i>Such as: Documented attempts with DBEs or on behalf of DBEs to increase DBE participation</i></p>		
<b>Documentation of Sound Reason for Rejecting DBEs</b>	<p>Provide sufficient evidence demonstrating that DBEs are rejected for sound reasons.</p> <p><i>Such as: Detailed and thoughtful analysis that considers both the percentage and dollar difference when rejecting a DBE including past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, and other tangible factors.</i></p>		
<b>Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials</b>	<p>Documented assistance in both solicitation(s) and outreach to DBEs.</p>		
<b>Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support</b>	<p>Effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well participation in activities that support DBE business development.</p> <p><i>Such as: Variety of activities that translate into meaningful DBE participation</i></p>		
<b>Documentation of other GFE activities</b>	<p><i>Such as: Used DT1202 Excel Workbook, Diversity &amp; Inclusion company policy, Mentor-Protégé participant, awarded neutral DBE after bid submission, included company GFE overview/strategy information and/or company website highlights DBE opportunities and participation</i></p>		
<b>Overall Demonstration of GFE</b>			



**GFE EVALUATION RATING LEGEND – PHASE 1 – Initial Review**

Documentation provided by bidder is evaluated and rated on the rubric. Bidders should include activities characterized by the following types of effort:

**ACTIVE & AGGRESSIVE:** Demonstrated through engaged and assertive activity

**QUALITY:** Demonstrated through essential character of conscientious and serious activity

**QUANTITY:** Demonstrated through a measurable number of activities

**SCOPE & INTENSITY:** Demonstrated through a rigorous approach to an appropriate and purposeful range of activities

**TIMING:** Demonstrated through engagement efforts beyond simple solicitation, initiated early in the process

**GFE EVALUATION – PHASE 2 – Team Review****GFE Team completes:**

- Review of activities included on the rubric
- Review of the intent to award and sound reasoning submitted by Prime
- Bid analysis to confirm if any bid submitted met the DBE goal
- Review average of other bidders DBE goal achievement
- Team review of combined efforts documented in Phase 1 and 2 constitute final GFE determination

**Rating Scale:**

- **GFE Approval:**  
**Bona Fide = 6 or more categories color coded green.**  
Genuine effort characterized by sincere and earnest activities – “Solicitation” and “Sound Reasoning” must be green
- **GFE Approval:**  
**Sufficient = 5 or more categories color coded green or yellow**  
Adequate effort documented with a variety of quality activities – “Solicitation” and “Sound Reasoning” must be green or yellow
- **GFE Denial:**  
**Pro Forma efforts = 4 or less categories color coded green or yellow.** Perfunctory effort characterized by routine or superficial activities

**Green = Exceeds expectations**

**Yellow = Meets expectations**

**Red = Areas in need of attention and/or absence of documentation**

**See OBOEC Rubric Analysis Feedback**

Excerpt from Appendix A to 49 CFR Part 26:

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. 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 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. As provided in §26.53(b)(2)(vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed

<b>GFE RUBRIC ANALYSIS</b>	
OBOEC DECISION	APPROVAL OR DENIAL
Prime Contractor	
Proposal	
Project	
Bid Letting	
DBE Goal Amount	
DBE Goal Amount Achieved	
<b>Bid Analysis</b>	
Goal %	Achieved %
Apparent Low Bidder	%
Bidder B	
Bidder C	
<b>Average of OTHER Bidders (Not including Apparent Low Bidder)</b>	
<b>DBE Quotes Received</b>	
<b>DBE Quotes Awarded</b>	
<b>DBE Quote(s) Rejected</b>	<b>Rejected Quote Analysis</b>
<b>DBE Quote(s) Awarded</b>	<b>Awarded DBE Amount</b>

## Appendix E

### Good Faith Effort Best Practices

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 be thorough 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 F**

### **Good Faith Effort Evaluation Guidance**

#### *Appendix A of 49 CFR Part 26*

I. When, as a recipient, you establish a contract goal on a DOT-assisted contract for procuring construction, equipment, services, or any other purpose, a bidder must, in order to be responsible and/or responsive, make sufficient 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, you have the responsibility 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, based on the regulations and the guidance in this Appendix.

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. Determinations should not be made using quantitative formulas.

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. (1) Conducting market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

(2) The bidder should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. The bidder should 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 (for example, smaller tasks or quantities) to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

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 with their offer for the subcontract.

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. (1) 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 status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the bidder or prime contractor to accept unreasonable quotes in order to satisfy contract goals.

(2) A prime contractor's inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

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, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. 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 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. As provided in §26.53(b)(2)(vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

VI. A promise to use DBEs after contract award is not considered to be responsive to the contract solicitation or to constitute good faith efforts.

[79 FR 59600, Oct. 2, 2014]

## **Appendix G**

### **(SAMPLE) Forms DT1506 and DT1202**

**Official Form DT1506 can be found here:** <https://wisconsin.gov/Documents/formdocs/dt1506.pdf>

**COMMITMENT TO SUBCONTRACT TO DBE**

**Clear**

Wisconsin Department of Transportation

DT1506 12/2021 s.84.06(2) Wis. Stats.

Non-Traditional Project

Project ID: \_\_\_\_\_  
 Proposal # \_\_\_\_\_

Prime Contractor: \_\_\_\_\_  
 County: \_\_\_\_\_

Letting Date: \_\_\_\_\_  
 Total \$ Value of  
 Prime Contract: \$ \_\_\_\_\_  
 DBE Contract Goal: \_\_\_\_\_ %  
 DBE Goal Achieved: 0.00 %

This contract requires that a specified percentage of the work be subcontracted to a disadvantaged business enterprise and that this information be submitted as described in ASP-3. The submittal of this form with the bid proposal constitutes your DBE commitment. Include Attachment A for DBEs included on commitment.

**This form must be completed and returned for this proposal. See page 2 for instructions.**

1. DBE Firm	2. Work or Items to be subcontracted	3. Supplier Y/N	4. Trucking Only	5. DBE Full Subcontract \$	6. DBE Amount for Credit \$
			O# L#		
			O# L#		
			O# L#		
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			O# L#		
				\$ 0.00	\$ 0.00

Government Use Only Approved Amounts		
A =	\$	%
V =	\$	%
Total =	\$	%
Signature: _____		
Date: _____		
Good faith effort approved: Yes <input type="checkbox"/> No <input type="checkbox"/>		

\_\_\_\_\_  
**Prime Representative Signature & Date**

\_\_\_\_\_  
**DBE Office Signature & Date Approved**



**COMMITMENT TO SUBCONTRACT TO DBE  
ATTACHMENT A**

**CONFIRMATION OF PARTICIPATION**

Project I.D.:	Proposal Number:
Letting Date:	

Name of DBE Firm Participating in this Contract:	
Name of the Prime/Subcontractor who hired the DBE Firm: <i>(list all names of tiers if more than one)</i>	
Type of Work or Type of Material Supplied:	
Total Subcontract Value:	Total DBE Credit Value:

<b>FOR PRIME CONTRACTORS ONLY:</b> I certify that I made arrangements with the participating DBE firm to perform the type of work listed or supply the material indicated above for the subcontract value listed above.	Prime Contractor Representative's Signature
	Prime Contractor Representative's Name (Print Name)
	Prime Contractor (Print Company Name)
	Date

<b>FOR PARTICIPATING DBE FIRMS ONLY:</b> I certify that I made arrangements with the Prime Contractor or the Hiring Contractor to perform the type of work or supply the material indicated above for the subcontract value listed above.  <b>FOR DBE TRUCKING FIRMS ONLY:</b> I certify that I will utilize, for DBE credit, only trucks listed on my WisDOT approved Schedule of Owned/Leased Vehicles for DBE Credit form and I will be utilizing the number of trucks as listed below.	Participating DBE Firm Representative's Signature	Date
	Participating DBE Firm Representative's Name (Print Name)	
	Participating DBE Firm (Print Company Name)	
	DBE Firm's Address:	

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

Off site Hauling



**DOCUMENTATION OF GOOD FAITH EFFORT**  
 Wisconsin Department of Transportation  
 DT1202.....3/2020



Project ID *****	Proposal No. *****	Letting *****
Prime Contractor *****	County *****	
Person Submitting Document *****	Telephone Number *****	
Address *****	Email Address *****	

All bidders must undertake necessary and reasonable steps to achieve the assigned DBE contract goal per federal regulatory guidance at 49 CFR Part 26. Bidders use this form to document all efforts employed to meet the assigned goal as a record of contractor good faith efforts (GFE). Refer to ASP3 or 49 CFR Part 26 for guidance on actions that demonstrate good faith effort.

It is critical to list all efforts, attach documentation, and follow the instructions to complete this submission. Documentation of good faith effort includes copies of each DBE and non-DBE subcontractor quote submitted to the bidder for the same line items. Utilize the sample documentation logs to document and organize efforts.

Submit good faith effort documentation per ASP-3 guidelines.

**Instructions:** Provide a narrative description of all activities pursued to demonstrate good faith efforts, any corresponding documentation, and applicable explanation on separate pages. Include the following items, organized in the order listed below.

**1. Solicitation Documentation:**

- a. **Purpose:** To identify all reasonable and available activities the bidder performed to solicit the interest of all certified DBEs who have the capacity and ability to perform work on the project. All solicitation efforts should begin as early as possible to ensure DBEs have ample time to respond and ask questions.
- b. **Action:** Identify and list all activities engaged in to solicit DBEs using all reasonable and available means such as written notice and follow-up communications; substantive conversations; pre-bid meetings; networking events; market research; advertising.

**2. Selected Work Items Documentation:**

- a. **Purpose:** To ensure that all work items are broken out into economically feasible units to facilitate DBE participation. This must occur even when you prefer to perform the work yourself.
- b. **Action:** Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.

**3. Documentation of Project Information provided to Interested DBEs:**

- a. **Purpose:** To provide interested DBEs with adequate information about the plans, specifications, and any other contractual requirements in a timely manner to assist DBEs in response to solicitation.
- b. **Action:** Provide DBEs access to plans, specifications, and other contract requirements. Early solicitation allows ample opportunity to provide project information, links to Let advertisements, and substantive engagement with DBEs.

**4. → Documentation of Negotiation with Interested DBEs:**

**a. → Purpose:** To ensure that negotiations with interested DBEs were made in good faith providing evidence as to why agreements could not be reached for DBEs to perform work.

**b. → Action:** Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts. A bidder using good business judgment considers a number of factors in negotiating with all subcontractors, and the firm's price and capabilities in addition to contract goals are taken 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 failing to meet the DBE goal as long as costs are reasonable. (see 49 CFR Part 26 Appendix A)

**5. → Documentation of Sound Reason for Rejecting DBEs:**

**a. → Purpose:** To ensure that bidders avoid rejecting DBEs as unqualified without sound reasons. Reasons for rejection must be based on thorough investigation of DBE capabilities.

**b. → Action:** Provide sufficient evidence to demonstrate that DBE was rejected for sound reasons such as past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, other tangible factors.

**6. → Documentation of Assistance to Interested DBEs - Bonding, Credit, Insurance, Equipment, Supplies/Materials:**

**a. → Purpose:** To assist interested DBEs in obtaining bonds, lines of credit, insurance, equipment, supplies, materials, and other assistance or services.

**b. → Action:** Assist interested DBEs in obtaining bonding, lines of credit or insurance, and provide technical assistance or information related to plans, specifications, and project requirements. Assist DBEs in obtaining equipment, supplies, materials or other services related to meeting project requirements (excluding supplies or equipment the DBE purchases from the prime).

**7. → Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support:**

**a. → Purpose:** To effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well as participation in activities that support DBE business development.

**b. → Action:** Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Return to:  
Wisconsin Department of Transportation  
DBE Program Office  
PO Box 7965  
Madison, WI 53707-7965  
DBE\_Alert@dot.wi.gov

I certify that I have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses and as specified in Additional Special Provision 3 (ASP-3).

I certify that the information given in the Documentation of Good Faith Efforts is true and correct to the best of my knowledge and belief.

I further understand that any willful falsification, fraudulent statement, or misrepresentation will result in appropriate sanctions, which may involve debarment and/or prosecution under applicable state (Trans 504) and Federal laws.

		(Bidder/Authorized Representative Signature)
		_____
		(Print Name)
		_____
		(Title)

### Good-Faith-Effort--Sample-Documentation-Logs

The sample logs below are provided as guides rather than exhaustive list. See ASP3, Appendix A for additional examples of demonstrable good faith efforts. Attach documentation for each activity listed.

Acceptable forms of documentation include copies of solicitations sent to DBEs, notes from substantive conversations and negotiations with DBEs, copies of advertisements placed, email communications, all quotes received from DBEs and from all subcontractors who were considered alongside DBE quotes, proof of attendance at applicable networking events; flyers for events or workshops for DBEs offered by the prime, and other physical records of good faith efforts activities.

#### SOLICITATION LOG

Date	Activity	Name of DBE Solicited	Follow-up
4/1/2020	Sent May-Let solicitation	Winterland Electric	Spoke with Mark Winterland on 4/15/20 to ask if he would quote.

#### SELECTED WORK ITEMS SOLICITED LOG

Work Type	DBE Firm	Contact Person	Date	Contact Mode
Pavement Marking	ABC Marking	Leslie Lynch	4/1/2020	Email; phone
	#1 Marking Co.	Mark Smart	4/1/2020	Email; left VM
Electrical	Winterland Electric	Tabitha Tinker	4/3/2020	Email; left VM
	Superstar Wiring	Jose Huascar	4/3/2020	Email; phone

#### INFORMATION PROVIDED LOG

Request Date	DBE Firm	Information Requested & Provided	Response Date
4/1/2020	Winterland Electric	Requested info on electrical requirements; provided plan and link to specs	4/3/2020
4/21/2020	Absolute Construction	Wanted to know how and when supplies are paid for by WisDOT; referred to spec that covers stockpiling	4/21/2020

#### NEGOTIATIONS LOG

Date	DBE Firm	Contact Name	Work Type	Quotes Rec'd?	Considered for project?	If not selected, why?
4/12/2020	ABC Landscape	John Dean	Erosion Control	Yes	No	Cannot perform all items
4/17/2020	Wild Ferns	Sandy Lynn	Erosion Control	Yes	Yes	
4/20/2020	#1 Marking	Mark Smart	Electrical	Yes	Yes	

#### ASSISTANCE LOG

Date	DBE Firm	Contact Person	Assistance Provided
4/1/2020	ABC Sawing	Jackie Swiggle	Informed DBE on how to obtain bonding
4/17/2020	Supreme Construction	Winston Walters	Provided contact for wholesale supply purchase

#### OUTREACH & BUSINESS DEVELOPMENT LOG

Date	Agency/Organization Contacted	Contact Person	Assistance Requested
4/1/2020	Women in Construction	LaTonya Klein	Contact information for woman-owned suppliers
4/28/2020	WBIC	Sam Smith	Asked for information to provide to DBE regarding financing programs through WBIC

Official Form DT1202 can be found here: <https://wisconsindot.gov/pages/global-footer/formdocs/default.aspx>

## **ADDITIONAL SPECIAL PROVISION 4**

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.

### **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 is not allowed to withhold 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.

### **Acceptance and Final Payment**

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.

**Additional Special Provision 6**

**ASP 6 - Modifications to the standard specifications**

*Make the following revisions to the standard specifications:*

**416.2.4 Concrete Pavement Repair and Replacement**

*Replace the entire text with the following effective with the November 2022 letting:*

- (1) Except as specified in 416.3.6 for inlaid rumble strips, use grade C concrete as specified in 501.
- (2) The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi.

**416.2.5 Special High Early Strength Concrete Pavement Repair and Replacement**

**416.2.5.1 Composition and Proportioning of Concrete**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) For the concrete mixture, use a minimum of 846 pounds of cementitious material per cubic yard of concrete. The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi. The contractor may add one or a combination of admixtures to the ingredients or to the mixture in order to obtain the required minimum strength and required air content. Do not retemper the concrete mixture.

**455.2.4.3 Emulsified Asphalts**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) Furnish material conforming, before dilution, to the following:
    - Anionic emulsified asphalts<sup>[1]</sup>..... AASHTO M140
    - Cationic emulsified asphalts<sup>[1]</sup> ..... AASHTO M208
    - Polymer-modified cationic emulsified asphalts ..... AASHTO M316
- <sup>[1]</sup> Non-tracking emulsified asphalts shall conform to TABLE 455-1 for the type and grade specified.

**TABLE 455-1 Requirements for Non-Tracking Emulsified Asphalt**

PRODUCT	ANTT	CNTT
Saybolt Viscosity at 77°F (25°C), (AASHTO T 59), SFS	15-100	15-100
Paddle Viscosity at 77°F (25°C), (AASHTO T 382), cPs <sup>[1]</sup>	30-200	30-200
Storage Stability Test, 24 hr, (AASHTO T 59), %	1 max	1 max
Residue by Distillation, 500 ± 10 °F (260 ± 5 °C), or Residue by Evaporation, 325 ± 5 °F (163 ± 3 °C), (AASHTO T 59), %	50 min	50 min
Sieve Test, No. 20 (850 µm), (AASHTO T 59), %	0.3	0.3
Penetration at 77°F (25°C), 100 g, 5 sec, (AASHTO T 49), dmm	10-40	10-40
Ash Content, (AASHTO T 111), %	1 max	1 max
Solubility in Trichlorethylene Test, (AASHTO T 44) <sup>[2]</sup>	97.5% min	97.5% min

<sup>[1]</sup> Paddle Viscosity (AASHTO T 382) may be run in lieu of Saybolt Viscosity (AASHTO T 59).  
<sup>[2]</sup> The solubility in Trichlorethylene test (AASHTO T 44) may be run in lieu of Ash Content (AASHTO T 111).

**455.2.5 Tack Coat**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) Under the Tack Coat bid item, furnish type SS-1h, CSS-1h, QS-1h, CQS-1h, ANTT, CNTT, or modified emulsified asphalt with an “h” suffix, unless the contract specifies otherwise.

**710.5.7 Corrective Action**

**710.5.7.1 Optimized Aggregate Gradations**

*Replace paragraph one with the following effective with the November 2022 letting:*

- (1) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by less than or equal to 1.0 percent on a single sieve size, notify the other party immediately and do one of the following:
  - Perform corrective action documented in the QC plan or as the engineer approves. Continue with the following:
    1. Document and provide corrective action results to the engineer as soon as they are available.
    2. Department will conduct two tests within the next business day after corrective action is complete.
      - If blended aggregate gradations are within the tarantula curve limits by the second department test:
        - Continue with concrete production.
        - Include a break in the 4-point running average.
        - For Class I Pavements: The department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
      - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract requires an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit a new optimized aggregate gradation mix design.
      - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract does not require an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit either a new optimized aggregate gradation mix design or a combined aggregate gradation mix design.
  - Submit a new optimized aggregate gradation mix design and perform the following:
    1. Restart control charts for the new mix design.
    2. Amend contractor Quality Control Plan

**715.5 Payment**

*Replace the entire text with the following effective with the November 2022 letting:*

**715.5.1 General**

- (1) The department will pay incentive for concrete strength under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
715.0502	Incentive Strength Concrete Structures	DOL
715.0603	Incentive Strength Concrete Barrier	DOL
715.0715	Incentive Flexural Strength Concrete Pavement	DOL
715.0720	Incentive Compressive Strength Concrete Pavement	DOL

- (2) Incentive payment may be more or less than the amount the schedule of items shows.
- (3) The department will administer disincentives for strength under the Disincentive Strength Concrete Structures, Disincentive Strength Concrete Barrier, Disincentive Flexural Strength Concrete Pavement, and Disincentive Compressive Strength Concrete Pavement, administrative items.
- (4) The department will adjust pay for each lot using PWL of the 28-day subplot average strengths for that lot. The department will measure PWL relative to strength lower specification limits as follows:
  - Compressive strength of 3700 psi for pavements.
  - Flexural strength of 650 psi for pavements.
  - Compressive strength of 4000 psi for structures and barrier.
- (5) The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under 715.3.1.2.2.
- (6) Submit test results to the department electronically using MRS software. The department will verify contractor data before determining pay adjustments.
- (7) All coring and testing costs under 715.3.2.2 including filling core holes and providing traffic control during coring are incidental to the contract.



**715.5.2 Pavements**

**715.5.2.1 Compressive**

- (1) The department will adjust pay for each lot using equation “QMP 3.01” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 95 to 100	$(0.1 \times \text{PWL}) - 9.5$
>= 85 to < 95	0
>= 30 to < 85	$(1.5/55 \times \text{PWL}) - 127.5/55$
< 30	-1.50

- (2) The department will not pay incentive if the lot standard deviation is greater than 400 psi compressive.
- (3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 3700 psi compressive by \$1.50 per square yard.
- (4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

**715.5.2.2 Flexural**

- (1) The department will adjust pay for each lot using equation “QMP 6.02” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 95 to 100	$(0.2 \times \text{PWL}) - 19$
>= 85 to < 95	0
>= 50 to < 85	$(2.0/35 \times \text{PWL}) - 170/35$
< 50	-2.00

- (2) The department will not pay incentive if the lot standard deviation is greater than 60 psi flexural.
- (3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 650 psi flexural by \$2.00 per square yard.
- (4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

**715.5.3 Structures and Cast-in-Place Barrier**

- (1) The department will adjust pay for each lot using equation “QMP 2.01” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 99 to 100	10
>= 90 to < 99	0
>= 50 to < 90	$(7/8 \times \text{PWL}) - 78.75$
< 50	-35

- (2) The department will not pay incentive if the lot standard deviation is greater than 350 psi.
- (3) For lots with less than 4 sublots, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 4000 psi by \$35 per cubic yard.

## 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. DBE firms must enter all payments to DBE and non-DBE firms regardless of tier.
6. 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).
7. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4), (5), and (6), and shall be binding on all first tier subcontractor relationships, all contractors and subcontractors utilizing DBE firms on the project, and all payments from DBE firms.

### B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov) within 5 days of payment receipt to be logged manually.

\*\*\*Additionally, for information on Subcontractor Sublet assignments, Subcontractor Payments and Payment Tracking, please refer to the CRCS Payment and Sublets manual at:

<https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payments-sublets-manual.pdf>

## **ADDITIONAL SPECIAL PROVISION 9**

### **Electronic Certified Payroll or Labor Data Submittal**

- (1) Use the department's Civil Rights Compliance System (CRCS) to electronically submit certified payroll reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:  
<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>
- (2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS. These payrolls or labor data 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 their submittals. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.
- (4) The department will reject all paper submittals 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/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov). Not every contractor's payroll system is capable of producing export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at:  
<https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>

**REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Non-segregated 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. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

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. 23 CFR 633.102(d).

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. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

**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, United States Code, as required in 23 CFR 633.102(b) (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). 23 CFR 633.102(e).

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. 23 CFR 633.102(e).

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) in accordance with 23 CFR 633.102. 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 solicitation-for-bids or request-for-proposals 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). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

**II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)**

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A 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 Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), 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 Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), 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 Part 230, Subpart A, 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 (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 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 Part 35 and 29 CFR Part 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. 23 CFR 230.409 (g)(4) & (5).

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, sexual orientation, gender identity, 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 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 or other knowledgeable company official.

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, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure 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. 23 CFR 230.409. 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, sexual orientation, gender identity, 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, sexual orientation, gender identity, 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 thereunder. 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, sexual orientation, gender identity, 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, 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. Assurances Required:**

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient 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 recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

**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 more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, 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, sexual orientation, gender identity, 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), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

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 (29 CFR 5.5)

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, 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 Administrator for determination. The 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 (29 CFR 5.5)**

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 (29 CFR 5.5)**

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. 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 29 CFR 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), 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 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 18 U.S.C. 1001 and 31 U.S.C. 231.

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 (29 CFR 5.5)

##### 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. 23 CFR 230.111(e)(2). 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 as provided in 29 CFR 5.5.

**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 as provided in 29 CFR 5.5.

**9. Disputes concerning labor standards.** As provided in 29 CFR 5.5, 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 (29 CFR 5.5)**

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**

Pursuant to 29 CFR 5.5(b), 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. 29 CFR 5.5.

**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 currently provided in 29 CFR 5.5(b)(2)\* 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. 29 CFR 5.5.

\* \$27 as of January 23, 2019 (See 84 FR 213-01, 218) as may be adjusted annually by the Department of Labor; pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990).

### **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. 29 CFR 5.5.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 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. 29 CFR 5.5.

## **VI. SUBLETTING OR ASSIGNING THE CONTRACT**

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

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" in paragraph 1 of Section VI 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: (based on longstanding interpretation)

- (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. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), 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. Pursuant to 23 CFR 635.116(c), 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. (based on longstanding interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

## **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 Part 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. 23 CFR 635.108.

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 Part 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). 29 CFR 1926.10.

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 Part 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 11, 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 (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)**

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.326.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders

or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.326.

### **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. 2 CFR 180.220 and 1200.220.

#### **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. 2 CFR 180.320.

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. 2 CFR 180.325.

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. 2 CFR 180.345 and 180.350.

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, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient 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 recipient or subrecipient 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. 2 CFR 180.330.

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. 2 CFR 180.220 and 180.300.

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. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. 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 System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

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 CFR 180.325.

\* \* \* \* \*

## **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 CFR 180.335;.

(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, 2 CFR 180.800;

(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, 2 CFR 180.700 and 180.800; 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. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

## **3. 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). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant 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. 2 CFR 180.365.

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, Subpart I, 180.900 – 180.1020, 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 recipient or subrecipient of Federal funds and a participant (such as the prime or general contractor). "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 recipient or subrecipient 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. 2 CFR 1200.220 and 1200.332.

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. 2 CFR 180.220 and 1200.220.

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 System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

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. 2 CFR 180.325.

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**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:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(b) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(c) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

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**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 Part 20, App. A.

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.

## **XII. USE OF UNITED STATES-FLAG VESSELS:**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor 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. 46 CFR 381.7.
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 Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)**

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).

**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.

## **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.

## BUY AMERICA PROVISION

Buy America (as documented in M-22-11 from the Office of Management and Budget: <https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf>) shall be domestic products and permanently incorporated in this project as classified in the following three categories, and as noted in the Construction and Materials Manual (CMM):

### 1. Iron and Steel

All iron and steel manufacturing and coating processes (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 the iron and steel manufacturing and coating processes Buy America 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.

### 2. Manufactured Product

All manufactured products (as defined in CMM 228.5) are covered under a previous waiver from 1983, and are currently exempt from Buy America.

### 3. Construction Material

All construction materials (as defined in OMB M-22-11 and as referenced in CMM 228.5) must comply with Buy America. No exemptions (0.0%) are allowed.

The contractor shall take actions and provide documentation conforming to CMM 228.5 to ensure compliance with this Buy America provision.

<https://wisconsin.gov/rdwy/cmm/cm-02-28.pdf>

Upon completion of the project, certify to the engineer, in writing using department form DT4567 that all iron and steel, manufactured products, and construction materials conform to this Buy America provision.

Form DT4567 is available at: <https://wisconsin.gov/Documents/formdocs/dt4567.docx>

Attach a list of iron or steel exemptions and their associated costs to the certification form.

## 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.

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

**SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS  
FOR PROJECTS WITH FEDERAL AID**

**I. PREVAILING WAGE RATES**

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however 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 will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

**II. COVERAGE OF TRUCK DRIVERS**

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis.  
[https://www.dol.gov/whd/FOH/FOH\\_Ch15.pdf](https://www.dol.gov/whd/FOH/FOH_Ch15.pdf)
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work.”
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:

<https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf>

<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx>



### **III. POSTINGS AT THE SITE OF THE WORK**

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

- a. A copy of the contractor's Equal Employment Opportunity Policy.

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

### **IV. RESOURCES**

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

Superseded General Decision Number: WI20210010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

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

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

1	01/21/2022
2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	05/13/2022
8	06/17/2022
9	07/08/2022
10	07/22/2022
11	07/29/2022
12	08/12/2022
13	09/16/2022
14	10/14/2022

BRWI0001-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER.....	\$ 36.81	25.17

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BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.35	23.89

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BRWI0002-005 06/01/2021

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 37.73	24.15

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BRWI0003-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

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BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 41.30	26.03

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BRWI0006-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER.....	\$ 37.78	24.20
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BRWI0007-002 06/01/2021		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.38	25.31
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BRWI0008-002 06/01/2021		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 42.38	24.64
-----		
BRWI0011-002 06/01/2021		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95
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BRWI0019-002 06/01/2021		

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

	Rates	Fringes
BRICKLAYER.....	\$ 36.31	25.67
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BRWI0034-002 06/01/2021		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.53	25.16
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* CARP0068-011 05/02/2022		

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

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 41.19	27.05
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CARP0252-002 06/01/2016		

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO,  
BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA,

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

	Rates	Fringes
CARPENTER		
CARPENTER.....	\$ 33.56	18.00
MILLWRIGHT.....	\$ 35.08	18.35
PILEDRIVER.....	\$ 34.12	18.00
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CARP0252-010 06/01/2016		

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	\$ 33.56	18.00
Millwright.....	\$ 35.08	18.35
Pile Driver.....	\$ 34.12	18.00
-----		
CARP0264-003 06/01/2016		

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

	Rates	Fringes
CARPENTER.....	\$ 35.78	22.11
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CARP0361-004 05/01/2018		

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43
-----		
CARP2337-001 06/01/2016		

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A.....	\$ 31.03	22.69
Zone B.....	\$ 31.03	22.69
-----		
ELEC0014-002 05/29/2022		

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK

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

	Rates	Fringes
Electricians:.....	\$ 38.49	22.09

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ELEC0014-007 05/29/2022

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer.....	\$ 29.63	3%+16.18
Installer/Technician.....	\$ 28.50	15.92

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

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ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 43.16	30%+12.70

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ELEC0158-002 05/30/2021

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

	Rates	Fringes
ELECTRICIAN.....	\$ 36.14	29.75%+10.26

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ELEC0159-003 05/30/2021

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

	Rates	Fringes
ELECTRICIAN.....	\$ 43.38	23.13

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ELEC0219-004 06/01/2019

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

	Rates	Fringes
Electricians:		
Electrical contracts over \$180,000.....	\$ 33.94	21.80
Electrical contracts under \$180,000.....	\$ 31.75	21.73
-----		
ELEC0242-005 05/30/2021		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.37	69.25%
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ELEC0388-002 05/30/2021		

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

	Rates	Fringes
Electricians:.....	\$ 36.22	26%+11.24
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ELEC0430-002 06/01/2022		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 45.02	24.35
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ELEC0494-005 06/01/2021		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 44.39	25.67
-----		
ELEC0494-006 06/01/2021		

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

	Rates	Fringes
Electricians:.....	\$ 37.91	22.74
-----		
ELEC0494-013 06/01/2021		

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet

Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE,  
 MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 22.39	18.80
Technician.....	\$ 32.49	20.26

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

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 ELEC0577-003 06/01/2021

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

	Rates	Fringes
Electricians:.....	\$ 35.66	29.50%+10.00

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 ELEC0890-003 06/01/2021

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

	Rates	Fringes
Electricians:.....	\$ 39.00	25.95%+11.17

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 ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman.....	\$ 47.53	21.43
(2) Heavy Equipment Operator.....	\$ 42.78	19.80
(3) Equipment Operator.....	\$ 38.02	18.40
(4) Heavy Groundman Driver..	\$ 33.27	16.88
(5) Light Groundman Driver..	\$ 30.89	16.11
(6) Groundsman.....	\$ 26.14	14.60



	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 43.27	25.95
Group 2.....	\$ 42.77	25.95
Group 3.....	\$ 42.27	25.95
Group 4.....	\$ 42.01	25.95
Group 5.....	\$ 41.72	25.95
Group 6.....	\$ 35.82	25.95

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" protection - \$3.00 per hour  
 EPA Level "B" protection - \$2.00 per hour  
 EPA Level "C" protection - \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

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

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

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

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

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

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 IRON0008-002 06/13/2022

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

	Rates	Fringes
IRONWORKER.....	\$ 41.00	28.95

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

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 IRON0008-003 06/01/2021

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

	Rates	Fringes
IRONWORKER.....	\$ 40.57	28.40

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

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 IRON0383-001 06/05/2022

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

	Rates	Fringes
IRONWORKER.....	\$ 39.00	28.58

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 IRON0498-005 06/01/2021

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

	Rates	Fringes
IRONWORKER.....	\$ 41.37	44.41

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IRON0512-008 05/01/2022

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

	Rates	Fringes
IRONWORKER.....	\$ 41.00	33.11

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IRON0512-021 05/01/2022

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

	Rates	Fringes
IRONWORKER.....	\$ 36.94	33.11

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LAB00113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.65	23.09
Group 2.....	\$ 32.80	23.09
Group 3.....	\$ 33.00	23.09
Group 4.....	\$ 33.15	23.09
Group 5.....	\$ 33.30	23.09
Group 6.....	\$ 29.14	23.09

LABORERS CLASSIFICATIONS

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

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

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

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LAB00113-003 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.90	23.09
Group 2.....	\$ 32.00	23.09
Group 3.....	\$ 32.05	23.09
Group 4.....	\$ 32.25	23.09
Group 5.....	\$ 32.10	23.09
Group 6.....	\$ 28.99	23.09

LABORERS CLASSIFICATIONS

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

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

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

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LAB00113-011 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.71	23.09
Group 2.....	\$ 31.86	23.09
Group 3.....	\$ 32.06	23.09
Group 4.....	\$ 32.03	23.09
Group 5.....	\$ 32.36	23.09
Group 6.....	\$ 28.85	23.09

LABORERS CLASSIFICATIONS:

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

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

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

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LAB00140-002 06/01/2022

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

	Rates	Fringes
LABORER		
Group 1.....	\$ 36.42	18.68
Group 2.....	\$ 36.52	18.68
Group 3.....	\$ 36.57	18.68
Group 4.....	\$ 36.77	18.68
Group 5.....	\$ 36.62	18.68
Group 6.....	\$ 33.05	18.68

LABORER CLASSIFICATIONS

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

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

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

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LAB00464-003 06/01/2022

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 36.70	18.68

Group 2.....	\$ 36.80	18.68
Group 3.....	\$ 36.85	18.68
Group 4.....	\$ 37.05	18.68
Group 5.....	\$ 36.90	18.68
Group 6.....	\$ 33.05	18.68

LABORERS CLASSIFICATIONS:

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

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

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

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PAIN0106-008 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 33.99	22.70
Spray, Sandblast, Steel....	\$ 34.59	22.70
Repaint:		
Brush, Roller.....	\$ 33.09	22.70
Spray, Sandblast, Steel....	\$ 32.49	22.70

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\* PAIN0108-002 06/01/2022

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 39.60	21.79
Spray & Sandblast.....	\$ 40.60	21.79

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PAIN0259-002 05/01/2008

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

	Rates	Fringes
PAINTER.....	\$ 24.11	12.15

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PAIN0259-004 05/01/2015

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

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

\* PAIN0781-002 06/01/2022

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 38.15	24.80
Brush.....	\$ 37.40	24.80
Spray & Sandblast.....	\$ 38.15	24.80

PAIN0802-002 06/01/2021

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

	Rates	Fringes
PAINTER		
Brush.....	\$ 29.98	18.78

PREMIUM PAY:

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

PAIN0802-003 06/01/2021

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

	Rates	Fringes
PAINTER.....	\$ 29.98	18.78

\* PAIN0934-001 06/01/2022

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 36.70	24.69
Spray.....	\$ 37.70	24.69
Structural Steel.....	\$ 36.85	24.69

PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 26.71	14.38
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PLAS0599-010 06/01/2021		

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 42.06	20.87
Area 2 (BAC).....	\$ 37.73	23.80
Area 3.....	\$ 38.74	22.46
Area 4.....	\$ 38.59	22.66
Area 5.....	\$ 38.16	22.98
Area 6.....	\$ 34.94	26.36

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES

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

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

AREA 6: KENOSHA AND RACINE COUNTIES

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TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 32.57	23.81
3 or more Axles; Euclids, Dumpton & Articulated, Truck Mechanic.....	\$ 32.72	23.81
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WELL DRILLER.....	\$ 16.52	3.70
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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this



contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

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

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

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

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

#### Survey Rate Identifiers

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

these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

#### Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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#### WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

Washington, DC 20210

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

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

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

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

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END OF GENERAL DECISIO"

"General Decision Number: WI20220008 10/14/2022

Superseded General Decision Number: WI20210008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 14026 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.</li></ul>
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 13658 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.</li></ul>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	06/17/2022
8	07/08/2022
9	07/15/2022
10	07/29/2022
11	08/05/2022
12	08/12/2022
13	09/16/2022
14	10/14/2022

BRWI0001-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER.....	\$ 36.81	25.17

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BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.35	23.89

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BRWI0002-005 06/01/2021

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 37.73	24.15

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BRWI0003-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95

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BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 41.30	26.03

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BRWI0006-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER.....	\$ 37.78	24.20
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BRWI0007-002 06/01/2021		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.38	25.31
-----		
BRWI0008-002 06/01/2021		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 42.38	24.64
-----		
BRWI0009-001 06/01/2021		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,  
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95
-----		
BRWI0011-002 06/01/2021		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 37.03	24.95
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BRWI0013-002 06/01/2021		

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.53	25.16
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BRWI0019-002 06/01/2021		

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

	Rates	Fringes
BRICKLAYER.....	\$ 36.31	25.67
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BRWI0021-002 06/01/2021		

DODGE AND JEFFERSON COUNTIES

Rates	Fringes
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BRICKLAYER.....\$ 37.75                   25.92  
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BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 38.53	25.16

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\* CARP0068-011 05/02/2022

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

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 41.19	27.05

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CARP0252-002 06/01/2016

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

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

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CARP0252-010 06/01/2016

ASHLAND COUNTY

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

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CARP0264-003 06/01/2016

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

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

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CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

-----  
CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

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

-----  
CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A.....	\$ 33.58	21.53
Zone B.....	\$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

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ELEC0014-002 05/29/2022

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

	Rates	Fringes
Electricians:.....	\$ 38.49	22.09

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ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 43.16	30%+12.70

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ELEC0158-002 05/30/2021

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



Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 36.14	29.75%+10.26
-----		
ELEC0159-003 05/30/2021		

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

	Rates	Fringes
ELECTRICIAN.....	\$ 43.38	23.13
-----		
ELEC0219-004 06/01/2019		

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

	Rates	Fringes
Electricians:		
Electrical contracts over		
\$180,000.....	\$ 33.94	21.80
Electrical contracts under		
\$180,000.....	\$ 31.75	21.73
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ELEC0242-005 05/30/2021		

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	\$ 41.37	69.25%
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ELEC0388-002 05/30/2021		

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

	Rates	Fringes
Electricians:.....	\$ 36.22	26%+11.24
-----		
ELEC0430-002 06/01/2022		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 45.02	24.35
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ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 44.39	25.67

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ELEC0494-006 06/01/2021

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

	Rates	Fringes
Electricians:.....	\$ 37.91	22.74

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ELEC0577-003 06/01/2021

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

	Rates	Fringes
Electricians:.....	\$ 35.66	29.50%+10.00

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ELEC0890-003 06/01/2021

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

	Rates	Fringes
Electricians:.....	\$ 39.00	25.95%+11.17

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ENGI0139-003 06/06/2022

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 45.22	24.85
Group 2.....	\$ 43.97	24.85
Group 3.....	\$ 41.57	24.85
Group 4.....	\$ 41.04	24.85
Group 5.....	\$ 38.97	24.85
Group 6.....	\$ 37.44	24.85

HAZARDOUS WASTE PREMIUMS:

- EPA Level "A" Protection: \$3.00 per hour
- EPA Level "B" Protection: \$2.00 per hour
- EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons;

Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweepers; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freeze Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3"; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

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ENGI0139-007 06/05/2022

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 43.54	24.85
Group 2.....	\$ 42.76	24.85
Group 3.....	\$ 41.81	24.85
Group 4.....	\$ 40.76	24.85
Group 5.....	\$ 39.36	24.85

HAZARDOUS WASTE PREMIUMS:

EPA Level "A" Protection: \$3.00 per hour

EPA Level "B" Protection: \$2.00 per hour

EPA Level "C" Protection: \$1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and/or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (145 or over); Screw type Pumps and Gypsum Pumps; Grout Pumps; Tractor, Bulldozer, End Loader, under 40 hp; Pumps (well points); Trencher (chain type 8 inch or smaller bucket); Industrial Locomotives; Roller under 5 tons; Fireman (Piledrivers and Derricks); Robotic Tool Carrier with or without attachments.

GROUP 5: Hoists (Automatic); Forklift, 12 ft to 25 ft; Tamper-Compactors, riding type; A-Frame and Winch Trucks; Concrete Auto Breaker; Hydrohammer, small; Brooms and Sweepers; Hoist (Tuggers); Stump Chipper, large; Boats (Tug, Safety, Work Barges and Launch); Shouldering Machine Operator; Screed Operator; Farm or Industrial Tractor; Post Hole Digger; Stone Crushers and Screening Plants; Firemen (Asphalt Plants); Air Compressor (400 CFM or over); Augers (vertical and horizontal); Generators, 150 KW and over; Air, Electric Hydraulic Jacks (Slipform); Prestress

Machines; Skid Steer Loader with or without attachments;  
 Boiler operators (temporary heat); Forklift, 12 ft and  
 under; Screed Operator Milling Machine; Refrigeration  
 Plant/Freeze Machine; Power Pack Vibratory/Ultra Sound  
 Driver and Extractor; Generators under 150 KW; Combination  
 small equipment operator; Compressors under 400 CFM;  
 Welding Machines; Heaters, Mechanical; Pumps; Winches,  
 Small Electric; Oiler and Greaser; Conveyor; High pressure  
 utility locating machine (daylighting machine).

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 IRON0008-002 06/13/2022

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

	Rates	Fringes
IRONWORKER.....	\$ 41.00	28.95

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

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 IRON0008-003 06/01/2021

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

	Rates	Fringes
IRONWORKER.....	\$ 40.57	28.40

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

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 IRON0383-001 06/05/2022

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

	Rates	Fringes
IRONWORKER.....	\$ 39.00	28.58

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 IRON0498-005 06/01/2021

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

	Rates	Fringes
IRONWORKER.....	\$ 41.37	44.41

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 IRON0512-008 05/01/2022

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

	Rates	Fringes
IRONWORKER.....	\$ 41.00	33.11
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IRON0512-021 05/01/2022		

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

	Rates	Fringes
IRONWORKER.....	\$ 36.94	33.11
-----		
LAB00113-004 06/01/2022		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 17.62	21.98
Group 2.....	\$ 19.89	21.98
Group 3.....	\$ 23.43	21.98
Group 4.....	\$ 32.80	21.98
Group 5.....	\$ 32.94	21.98
Group 6.....	\$ 33.00	21.98
Group 7.....	\$ 36.85	21.98
Group 8.....	\$ 39.67	21.98
Group 9.....	\$ 40.31	21.98

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc;  
 Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner;  
 Pipe Layer; Rock Driller and Joint Man; Timber Man and  
 Concrete Brusher; Bracer in Trench Behind Machine & Tight  
 Sheeting; Concrete Formsetter and Shoveler; Jackhammer  
 Operator

GROUP 9: Blaster

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 LAB00113-005 06/06/2022

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 24.29	21.98
Group 2.....	\$ 30.22	21.98
Group 3.....	\$ 34.42	21.98
Group 4.....	\$ 36.19	21.98

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint Sawyer, Gunnite Man, Manhole Builder, Welder-Torchman, Blaster, Caulker, Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher, Raker and Luteman, Hydraulic Jacking of Shields, Shield Drivers, Mining Machine, Lock Tenders, Mucking Machine Operator, Motor Men & Gauge Tenders and operation of incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

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LAB00113-008 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 23.43	21.98
Group 2.....	\$ 32.94	21.98
Group 3.....	\$ 33.00	21.98
Group 4.....	\$ 36.98	21.98
Group 5.....	\$ 36.99	21.98
Group 6.....	\$ 39.67	21.98
Group 7.....	\$ 40.31	21.98

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack

Hammer Operator; Caisson Worker; Pipelayer and Joint Man;  
Bracerman

GROUP 7: Blaster

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\* LAB00113-009 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 23.43	21.98
Group 2.....	\$ 32.94	21.98
Group 3.....	\$ 37.39	21.98
Group 4.....	\$ 38.19	21.98
Group 5.....	\$ 38.31	21.98
Group 6.....	\$ 41.01	21.98
Group 7.....	\$ 41.63	21.98

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

- \*Compressed Air 15 - 30 lbs add \$2.00 to all classifications
- \*Compressed Air over 30 lbs add \$3.00 to all classifications

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder &  
Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack  
Hammer Operator; Caisson Worker; Pipelayer and Joint Man;  
Bracerman; Nozzle Man on Gunite; Timber Man; Concrete  
Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add \$0.15 per hour.

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LAB00140-005 06/06/2022

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

Rates                      Fringes



LABORER (SEWER & WATER)

Group 1.....	\$ 31.48	18.68
Group 2.....	\$ 33.33	18.68
Group 3.....	\$ 33.53	18.68
Group 4.....	\$ 34.28	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawyer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

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LAB00464-002 06/06/2022

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 31.38	18.68
Group 2.....	\$ 33.58	18.68
Group 3.....	\$ 33.78	18.68
Group 4.....	\$ 34.53	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add \$1.00, 15- 30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawyer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

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LAB01091-010 06/06/2022

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 31.17	18.68
Group 2.....	\$ 33.23	18.68
Group 3.....	\$ 33.43	18.68
Group 4.....	\$ 34.18	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:  
 0 - 15 lbs add \$1.00, 15-30 lbs add \$2.00, over 30 lbs add \$3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawyer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

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 PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1.....	\$ 42.06	20.87
Area 2 (BAC).....	\$ 37.73	23.80
Area 3.....	\$ 38.74	22.46
Area 4.....	\$ 38.59	22.66
Area 5.....	\$ 38.16	22.98
Area 6.....	\$ 34.94	26.36

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES

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

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

COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

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TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic.....	\$ 32.72	23.81
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WELL DRILLER.....	\$ 16.52	3.70
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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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

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

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were

prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

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

#### Survey Rate Identifiers

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

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

#### Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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#### WAGE DETERMINATION APPEALS PROCESS

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

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter

\* a conformance (additional classification and rate) ruling

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

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

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

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

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

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

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

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

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

=====

END OF GENERAL DECISIO"

## **NOTICE TO BIDDERS WAGE RATE DECISION**

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

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

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

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

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least \$1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0105 Clearing	3.000 STA	_____.	_____.
0004	201.0120 Clearing	38.000 ID	_____.	_____.
0006	201.0205 Grubbing	3.000 STA	_____.	_____.
0008	201.0220 Grubbing	38.000 ID	_____.	_____.
0010	204.0100 Removing Concrete Pavement	5,393.000 SY	_____.	_____.
0012	204.0120 Removing Asphaltic Surface Milling	227.000 SY	_____.	_____.
0014	204.0150 Removing Curb & Gutter	6.000 LF	_____.	_____.
0016	204.0155 Removing Concrete Sidewalk	1,568.000 SY	_____.	_____.
0018	204.0170 Removing Fence	15.000 LF	_____.	_____.
0020	204.0195 Removing Concrete Bases	23.000 EACH	_____.	_____.
0022	204.0210 Removing Manholes	4.000 EACH	_____.	_____.
0024	204.0215 Removing Catch Basins	11.000 EACH	_____.	_____.
0026	204.0245 Removing Storm Sewer (size) 01. 12-Inch	1,052.000 LF	_____.	_____.
0028	204.0245 Removing Storm Sewer (size) 02. 24-Inch	35.000 LF	_____.	_____.
0030	204.0291.S Abandoning Sewer	1.000 CY	_____.	_____.
0032	204.9060.S Removing (item description) 01. Bike Rack	2.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0034	204.9060.S Removing (item description) 02. Loop Detector Lead-In-Cable National & Greenfield Avenue	1.000 EACH	_____.	_____.
0036	204.9090.S Removing (item description) 01. Landscape Retaining Wall	99.000 LF	_____.	_____.
0038	204.9165.S Removing (item description) 01. Concrete Steps	198.000 SF	_____.	_____.
0040	205.0100 Excavation Common	4,575.000 CY	_____.	_____.
0042	213.0100 Finishing Roadway (project) 2410-13-70	1.000 EACH	_____.	_____.
0044	305.0120 Base Aggregate Dense 1 1/4-Inch	2,138.000 TON	_____.	_____.
0046	310.0110 Base Aggregate Open-Graded	6.000 TON	_____.	_____.
0048	311.0110 Breaker Run	3,643.000 TON	_____.	_____.
0050	320.0155 Concrete Base 9-Inch	182.000 SY	_____.	_____.
0052	415.0080 Concrete Pavement 8-Inch	4,420.000 SY	_____.	_____.
0054	415.4100 Concrete Pavement Joint Filling	4,420.000 SY	_____.	_____.
0056	416.0170 Concrete Driveway 7-Inch	184.000 SY	_____.	_____.
0058	416.0610 Drilled Tie Bars	51.000 EACH	_____.	_____.
0060	416.0620 Drilled Dowel Bars	115.000 EACH	_____.	_____.
0062	455.0605 Tack Coat	20.000 GAL	_____.	_____.





## Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	460.2000 Incentive Density HMA Pavement	40.000 DOL	1.00000	40.00
0066	460.5224 HMA Pavement 4 LT 58-28 S	49.000 TON	_____	_____
0068	465.0120 Asphaltic Surface Driveways and Field Entrances	6.000 TON	_____	_____
0070	513.2001 Railing Pipe	10.000 LF	_____	_____
0072	520.8000 Concrete Collars for Pipe	3.000 EACH	_____	_____
0074	601.0331 Concrete Curb & Gutter 31-Inch	1,542.000 LF	_____	_____
0076	601.0407 Concrete Curb & Gutter 18-Inch Type D	6.000 LF	_____	_____
0078	601.0413 Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	20.000 LF	_____	_____
0080	601.0600 Concrete Curb Pedestrian	9.000 LF	_____	_____
0082	602.0410 Concrete Sidewalk 5-Inch	10,365.000 SF	_____	_____
0084	602.0505 Curb Ramp Detectable Warning Field Yellow	168.000 SF	_____	_____
0086	602.1500 Concrete Steps	96.000 SF	_____	_____
0088	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	519.000 LF	_____	_____
0090	608.0421 Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	4.000 LF	_____	_____
0092	608.0512 Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	340.000 LF	_____	_____



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0094	608.0515 Storm Sewer Pipe Reinforced Concrete Class V 15-Inch	180.000 LF	_____.	_____.
0096	611.0530 Manhole Covers Type J	4.000 EACH	_____.	_____.
0098	611.0648 Inlet Covers Type R	10.000 EACH	_____.	_____.
0100	611.2004 Manholes 4-FT Diameter	5.000 EACH	_____.	_____.
0102	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.	_____.
0104	611.8105 Adjusting Catch Basin Covers	1.000 EACH	_____.	_____.
0106	612.0106 Pipe Underdrain 6-Inch	90.000 LF	_____.	_____.
0108	616.0204 Fence Chain Link 4-FT	15.000 LF	_____.	_____.
0110	618.0100 Maintenance And Repair of Haul Roads (project) 2410-13-70	1.000 EACH	_____.	_____.
0112	619.1000 Mobilization	1.000 EACH	_____.	_____.
0114	624.0100 Water	21.000 MGAL	_____.	_____.
0116	625.0100 Topsoil	350.000 SY	_____.	_____.
0118	627.0200 Mulching	25.000 SY	_____.	_____.
0120	628.1104 Erosion Bales	50.000 EACH	_____.	_____.
0122	628.1905 Mobilizations Erosion Control	1.000 EACH	_____.	_____.
0124	628.1910 Mobilizations Emergency Erosion Control	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0126	628.7005 Inlet Protection Type A	12.000 EACH	_____.	_____.
0128	628.7015 Inlet Protection Type C	28.000 EACH	_____.	_____.
0130	628.7560 Tracking Pads	2.000 EACH	_____.	_____.
0132	629.0210 Fertilizer Type B	0.200 CWT	_____.	_____.
0134	630.0200 Seeding Temporary	4.000 LB	_____.	_____.
0136	631.0300 Sod Water	15.700 MGAL	_____.	_____.
0138	631.1000 Sod Lawn	350.000 SY	_____.	_____.
0140	632.0101 Trees (species) (size) (root) 01. Elm, Frontier, 2.5" Cal, B&B	4.000 EACH	_____.	_____.
0142	632.0101 Trees (species) (size) (root) 02. Elm, Regal, 2.5" Cal, B&B	10.000 EACH	_____.	_____.
0144	632.0101 Trees (species) (size) (root) 03. Honeylocust, Streetkeeper, 2.5" Cal, B&B	3.000 EACH	_____.	_____.
0146	632.0101 Trees (species) (size) (root) 04. Lilac, China Snow Peking, 8'-10' HT Clump, B&B	3.000 EACH	_____.	_____.
0148	632.9101 Landscape Planting Surveillance and Care Cycles	15.000 EACH	_____.	_____.
0150	637.2210 Signs Type II Reflective H	68.000 SF	_____.	_____.
0152	638.2102 Moving Signs Type II	3.000 EACH	_____.	_____.
0154	638.2602 Removing Signs Type II	18.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0156	638.3000 Removing Small Sign Supports	6.000 EACH	_____.	_____.
0158	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0160	643.0300 Traffic Control Drums	3,882.000 DAY	_____.	_____.
0162	643.0410 Traffic Control Barricades Type II	189.000 DAY	_____.	_____.
0164	643.0420 Traffic Control Barricades Type III	1,625.000 DAY	_____.	_____.
0166	643.0705 Traffic Control Warning Lights Type A	2,620.000 DAY	_____.	_____.
0168	643.0715 Traffic Control Warning Lights Type C	917.000 DAY	_____.	_____.
0170	643.0900 Traffic Control Signs	10,329.000 DAY	_____.	_____.
0172	643.0920 Traffic Control Covering Signs Type II	10.000 EACH	_____.	_____.
0174	643.1050 Traffic Control Signs PCMS	14.000 DAY	_____.	_____.
0176	643.3150 Temporary Marking Line Removable Tape 4-Inch	180.000 LF	_____.	_____.
0178	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0180	644.1420 Temporary Pedestrian Surface Plywood	1,000.000 SF	_____.	_____.
0182	644.1430 Temporary Pedestrian Surface Plate	768.000 SF	_____.	_____.
0184	644.1601 Temporary Pedestrian Curb Ramp	240.000 DAY	_____.	_____.
0186	644.1810 Temporary Pedestrian Barricade	2,350.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0188	645.0111 Geotextile Type DF Schedule A	45.000 SY	_____.	_____.
0190	645.0120 Geotextile Type HR	150.000 SY	_____.	_____.
0192	645.0220 Geogrid Type SR	5,419.000 SY	_____.	_____.
0194	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	5,108.000 LF	_____.	_____.
0196	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	442.000 LF	_____.	_____.
0198	646.5020 Marking Arrow Epoxy	2.000 EACH	_____.	_____.
0200	646.6120 Marking Stop Line Epoxy 18-Inch	62.000 LF	_____.	_____.
0202	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,250.000 LF	_____.	_____.
0204	650.4000 Construction Staking Storm Sewer	14.000 EACH	_____.	_____.
0206	650.4500 Construction Staking Subgrade	925.000 LF	_____.	_____.
0208	650.5500 Construction Staking Curb Gutter and Curb & Gutter	1,972.000 LF	_____.	_____.
0210	650.7000 Construction Staking Concrete Pavement	925.000 LF	_____.	_____.
0212	650.8501 Construction Staking Electrical Installations (project) 2410-13-70	1.000 EACH	_____.	_____.
0214	650.9000 Construction Staking Curb Ramps	16.000 EACH	_____.	_____.
0216	650.9500 Construction Staking Sidewalk (project) 2410-13-70	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001

Roadway Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0218	650.9911 Construction Staking Supplemental Control (project) 2410-13-70	1.000 EACH	_____.	_____.
0220	650.9920 Construction Staking Slope Stakes	925.000 LF	_____.	_____.
0222	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	2,379.000 LF	_____.	_____.
0224	652.0800 Conduit Loop Detector	446.000 LF	_____.	_____.
0226	652.0900 Loop Detector Slots	282.000 LF	_____.	_____.
0228	653.0135 Pull Boxes Steel 24x36-Inch	5.000 EACH	_____.	_____.
0230	653.0900 Adjusting Pull Boxes	2.000 EACH	_____.	_____.
0232	653.0905 Removing Pull Boxes	1.000 EACH	_____.	_____.
0234	655.0610 Electrical Wire Lighting 12 AWG	2,172.000 LF	_____.	_____.
0236	655.0625 Electrical Wire Lighting 6 AWG	7,227.000 LF	_____.	_____.
0238	655.0700 Loop Detector Lead In Cable	1,139.000 LF	_____.	_____.
0240	655.0800 Loop Detector Wire	1,388.000 LF	_____.	_____.
0242	690.0150 Sawing Asphalt	474.000 LF	_____.	_____.
0244	690.0250 Sawing Concrete	886.000 LF	_____.	_____.
0246	715.0720 Incentive Compressive Strength Concrete Pavement	1,326.000 DOL	1.00000	1,326.00
0248	999.1501.S Crack and Damage Survey	12.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0250	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	1,000.000 HRS	5.00000	5,000.00
0252	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	2,400.000 HRS	5.00000	12,000.00
0254	SPV.0025 Special 01. Arborsystem - Urban Tree Planting System	14,715.000 CF	_____.	_____.
0256	SPV.0035 Special 01. Backfill for Plant Beds - 24-Inch Depth	43.000 CY	_____.	_____.
0258	SPV.0060 Special 02. Catch Basin Special	8.000 EACH	_____.	_____.
0260	SPV.0060 Special 03. Storm Sewer Reconnect	2.000 EACH	_____.	_____.
0262	SPV.0060 Special 04. Relocate Lighting Units	22.000 EACH	_____.	_____.
0264	SPV.0060 Special 05. Internal Sanitary Manhole Seal	4.000 EACH	_____.	_____.
0266	SPV.0060 Special 06. Adjust Sanitary Manhole Frame	4.000 EACH	_____.	_____.
0268	SPV.0060 Special 07. Sanitary Manhole Frame with Solid Gasketed Lid	4.000 EACH	_____.	_____.
0270	SPV.0060 Special 08. Valve 6-Inch	2.000 EACH	_____.	_____.
0272	SPV.0060 Special 09. Valve 8-Inch	3.000 EACH	_____.	_____.
0274	SPV.0060 Special 10. Hydrant	2.000 EACH	_____.	_____.
0276	SPV.0060 Special 11. Adjust Water Valve Box	10.000 EACH	_____.	_____.
0278	SPV.0060 Special 12. Water Main Connection, 6-Inch	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0280	SPV.0060 Special 13. Water Main Connection, 8-Inch	2.000 EACH	_____.	_____.
0282	SPV.0060 Special 14. Water Service 3-Inch	1.000 EACH	_____.	_____.
0284	SPV.0060 Special 15. Water Service 4-Inch	1.000 EACH	_____.	_____.
0286	SPV.0060 Special 16. Water Service Reconnect 6-Inch	1.000 EACH	_____.	_____.
0288	SPV.0060 Special 17. Marking Symbol Grooved Bike Lane Preformed Thermoplastic	12.000 EACH	_____.	_____.
0290	SPV.0060 Special 18. Marking Arrow Grooved Bike Lane Preformed Thermoplastic	10.000 EACH	_____.	_____.
0292	SPV.0060 Special 19. Bench	6.000 EACH	_____.	_____.
0294	SPV.0060 Special 20. Trash Receptacle	3.000 EACH	_____.	_____.
0296	SPV.0060 Special 21. Recycling Receptacle	3.000 EACH	_____.	_____.
0298	SPV.0060 Special 22. Bicycle Rack	5.000 EACH	_____.	_____.
0300	SPV.0060 Special 23. Round Steel Sign Post System	5.000 EACH	_____.	_____.
0302	SPV.0060 Special 24. Catmint, Walker's Low 1 Gal CG	22.000 EACH	_____.	_____.
0304	SPV.0060 Special 25. Daylily, Strawberry Candy 1 Gal CG	42.000 EACH	_____.	_____.
0306	SPV.0060 Special 26. Daylily, Hyperion 1 Gal CG	12.000 EACH	_____.	_____.
0308	SPV.0060 Special 27. Feather Reed Grass 1 Gal CG	10.000 EACH	_____.	_____.





## Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0310	SPV.0060 Special 28. Prairie Dropseed, Tara Dwarf 4" Pot CG	22.000 EACH	_____.	_____.
0312	SPV.0060 Special 29. Switchgrass, Shenandoah 1 Gal CG	12.000 EACH	_____.	_____.
0314	SPV.0060 Special 30. Daffodil, Dutch Master Min 4" Circ Bulb	84.000 EACH	_____.	_____.
0316	SPV.0060 Special 31. Daffodil, Yellow Jonquils Min 4" Circ Bulb	63.000 EACH	_____.	_____.
0318	SPV.0060 Special 32. Tulip, Albert Heijn Min 4" Circ Bulb	213.000 EACH	_____.	_____.
0320	SPV.0060 Special 33. Concrete Base Type 5, 24-Inch	12.000 EACH	_____.	_____.
0322	SPV.0060 Special 34. Concrete Base Type 5, 30-Inch	10.000 EACH	_____.	_____.
0324	SPV.0090 Special 01. 6-Inch PVC Storm Sewer Lateral	128.000 LF	_____.	_____.
0326	SPV.0090 Special 02. 8-Inch PVC Storm Sewer Lateral	88.000 LF	_____.	_____.
0328	SPV.0090 Special 03. Concrete Curb & Gutter Integral 31-Inch	412.000 LF	_____.	_____.
0330	SPV.0090 Special 04. Sanitary Sewer Relay SDR 35 PVC SP 8-Inch	906.000 LF	_____.	_____.
0332	SPV.0090 Special 05. Building Sanitary Sewer 6-Inch	494.000 LF	_____.	_____.
0334	SPV.0090 Special 06. Water Main Relay, 6-Inch	173.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0336	SPV.0090 Special 07. Water Main Relay, 8-Inch	907.000 LF	_____.	_____.
0338	SPV.0090 Special 08. Water Service Copper 1-Inch	331.000 LF	_____.	_____.
0340	SPV.0090 Special 09. Water Service Copper 2-Inch	52.000 LF	_____.	_____.
0342	SPV.0090 Special 10. Precast Concrete Planter Curbing	149.000 LF	_____.	_____.
0344	SPV.0165 Special 01. 3X12 Concrete Pavers over Concrete Base	1,626.000 SF	_____.	_____.
0346	SPV.0165 Special 02. 6X24 Concrete Pavers over Concrete Base	2,530.000 SF	_____.	_____.
0348	SPV.0165 Special 03. High Friction Green Surfacing	1,921.000 SF	_____.	_____.
0350	SPV.0165 Special 04. Wall Modular Block Gravity Landscape, STA. 9+40	275.000 SF	_____.	_____.
0352	SPV.0180 Special 01. Shredded Hardwood Bark Mulch	1,361.000 SY	_____.	_____.
0354	SPV.0195 Special 01. Management of Solid Waste	311.000 TON	_____.	_____.
0356	SPV.0200 Special 01. Sanitary Manhole 48-Inch Diameter	43.000 VF	_____.	_____.

Section: 0001 Total: \_\_\_\_\_.

Total Bid: \_\_\_\_\_.



**PLEASE ATTACH ADDENDA HERE**



# Wisconsin Department of Transportation

November 16, 2022

## Division of Transportation Systems Development

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

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

### NOTICE TO ALL CONTRACTORS:

**Proposal #18: 2410-13-70, WISC 2023099**  
**W National Avenue**  
**S 62<sup>nd</sup> Street to S 65<sup>th</sup> Street**  
**Loc Str**  
**Milwaukee County**

### Letting of December 13, 2022

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

#### Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
644.1440	Temporary Pedestrian Surface Matting	SF	0	1,000	1,000

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
644.1420	Temporary Pedestrian Surface Plywood	SF	1,000	-1,000	0

#### Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
81	Miscellaneous Quantities – Changed Temporary Pedestrian Surface item

**Schedule of Items**

Attached, dated November 16, 2022, are the revised Schedule of Items Pages 6 – 12.

**Plan Sheets**

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

Revised: 81

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

END OF ADDENDUM

TRAFFIC CONTROL														
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH
STAGE 1	131	12	1,572	10	1,310	20	2,620	7	917	75	9,825	10	2	10
SIDEWALK CONSTRUCTION	21	110	2,310	9	189	15	315	1,625	2,620	24	504	10,329	10	14
<b>PROJECT TOTALS</b>			<b>3,882</b>		<b>1,625</b>		<b>2,620</b>		<b>917</b>		<b>10,329</b>			

TRAFFIC CONTROL														
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH
NATIONAL AVENUE			1											
<b>PROJECT TOTAL</b>			<b>1</b>											

TEMPORARY PEDESTRIAN ACCOMMODATIONS														
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH
644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING			1000											
644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE			768											
644.1601 TEMPORARY PEDESTRIAN CURB RAMP			240											
644.1810 TEMPORARY PEDESTRIAN BARRICADE			2350											
<b>PROJECT TOTAL</b>			<b>1000</b>											

PAVEMENT MARKING														
STREET	FROM	TO	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS	PROJECT TOTALS
W. NATIONAL AVENUE	5+00	19+00	5108	5108	442	442	2	2	62	62	1250	1250	10	1921

PROJECT NO: 2410-13-70	HWY: W. NATIONAL AVENUE	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	PLOT NAME: _____	FILE NAME: _____	PLOT SCALE: 1:1	SHEET: 81	E
ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED								



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0156	638.3000 Removing Small Sign Supports	6.000 EACH	_____.	_____.
0158	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0160	643.0300 Traffic Control Drums	3,882.000 DAY	_____.	_____.
0162	643.0410 Traffic Control Barricades Type II	189.000 DAY	_____.	_____.
0164	643.0420 Traffic Control Barricades Type III	1,625.000 DAY	_____.	_____.
0166	643.0705 Traffic Control Warning Lights Type A	2,620.000 DAY	_____.	_____.
0168	643.0715 Traffic Control Warning Lights Type C	917.000 DAY	_____.	_____.
0170	643.0900 Traffic Control Signs	10,329.000 DAY	_____.	_____.
0172	643.0920 Traffic Control Covering Signs Type II	10.000 EACH	_____.	_____.
0174	643.1050 Traffic Control Signs PCMS	14.000 DAY	_____.	_____.
0176	643.3150 Temporary Marking Line Removable Tape 4-Inch	180.000 LF	_____.	_____.
0178	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0182	644.1430 Temporary Pedestrian Surface Plate	768.000 SF	_____.	_____.
0184	644.1601 Temporary Pedestrian Curb Ramp	240.000 DAY	_____.	_____.
0186	644.1810 Temporary Pedestrian Barricade	2,350.000 LF	_____.	_____.
0188	645.0111 Geotextile Type DF Schedule A	45.000 SY	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0190	645.0120 Geotextile Type HR	150.000 SY	_____.	_____.
0192	645.0220 Geogrid Type SR	5,419.000 SY	_____.	_____.
0194	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	5,108.000 LF	_____.	_____.
0196	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	442.000 LF	_____.	_____.
0198	646.5020 Marking Arrow Epoxy	2.000 EACH	_____.	_____.
0200	646.6120 Marking Stop Line Epoxy 18-Inch	62.000 LF	_____.	_____.
0202	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,250.000 LF	_____.	_____.
0204	650.4000 Construction Staking Storm Sewer	14.000 EACH	_____.	_____.
0206	650.4500 Construction Staking Subgrade	925.000 LF	_____.	_____.
0208	650.5500 Construction Staking Curb Gutter and Curb & Gutter	1,972.000 LF	_____.	_____.
0210	650.7000 Construction Staking Concrete Pavement	925.000 LF	_____.	_____.
0212	650.8501 Construction Staking Electrical Installations (project) 2410-13-70	1.000 EACH	_____.	_____.
0214	650.9000 Construction Staking Curb Ramps	16.000 EACH	_____.	_____.
0216	650.9500 Construction Staking Sidewalk (project) 2410-13-70	1.000 EACH	_____.	_____.
0218	650.9911 Construction Staking Supplemental Control (project) 2410-13-70	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0220	650.9920 Construction Staking Slope Stakes	925.000 LF	_____.	_____.
0222	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	2,379.000 LF	_____.	_____.
0224	652.0800 Conduit Loop Detector	446.000 LF	_____.	_____.
0226	652.0900 Loop Detector Slots	282.000 LF	_____.	_____.
0228	653.0135 Pull Boxes Steel 24x36-Inch	5.000 EACH	_____.	_____.
0230	653.0900 Adjusting Pull Boxes	2.000 EACH	_____.	_____.
0232	653.0905 Removing Pull Boxes	1.000 EACH	_____.	_____.
0234	655.0610 Electrical Wire Lighting 12 AWG	2,172.000 LF	_____.	_____.
0236	655.0625 Electrical Wire Lighting 6 AWG	7,227.000 LF	_____.	_____.
0238	655.0700 Loop Detector Lead In Cable	1,139.000 LF	_____.	_____.
0240	655.0800 Loop Detector Wire	1,388.000 LF	_____.	_____.
0242	690.0150 Sawing Asphalt	474.000 LF	_____.	_____.
0244	690.0250 Sawing Concrete	886.000 LF	_____.	_____.
0246	715.0720 Incentive Compressive Strength Concrete Pavement	1,326.000 DOL	1.00000	1,326.00
0248	999.1501.S Crack and Damage Survey	12.000 EACH	_____.	_____.
0250	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	1,000.000 HRS	5.00000	5,000.00



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0252	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	2,400.000 HRS	5.00000	12,000.00
0254	SPV.0025 Special 01. Arborsystem - Urban Tree Planting System	14,715.000 CF	_____.	_____.
0256	SPV.0035 Special 01. Backfill for Plant Beds - 24-Inch Depth	43.000 CY	_____.	_____.
0258	SPV.0060 Special 02. Catch Basin Special	8.000 EACH	_____.	_____.
0260	SPV.0060 Special 03. Storm Sewer Reconnect	2.000 EACH	_____.	_____.
0262	SPV.0060 Special 04. Relocate Lighting Units	22.000 EACH	_____.	_____.
0264	SPV.0060 Special 05. Internal Sanitary Manhole Seal	4.000 EACH	_____.	_____.
0266	SPV.0060 Special 06. Adjust Sanitary Manhole Frame	4.000 EACH	_____.	_____.
0268	SPV.0060 Special 07. Sanitary Manhole Frame with Solid Gasketed Lid	4.000 EACH	_____.	_____.
0270	SPV.0060 Special 08. Valve 6-Inch	2.000 EACH	_____.	_____.
0272	SPV.0060 Special 09. Valve 8-Inch	3.000 EACH	_____.	_____.
0274	SPV.0060 Special 10. Hydrant	2.000 EACH	_____.	_____.
0276	SPV.0060 Special 11. Adjust Water Valve Box	10.000 EACH	_____.	_____.
0278	SPV.0060 Special 12. Water Main Connection, 6-Inch	2.000 EACH	_____.	_____.
0280	SPV.0060 Special 13. Water Main Connection, 8-Inch	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0282	SPV.0060 Special 14. Water Service 3-Inch	1.000 EACH	_____.	_____.
0284	SPV.0060 Special 15. Water Service 4-Inch	1.000 EACH	_____.	_____.
0286	SPV.0060 Special 16. Water Service Reconnect 6-Inch	1.000 EACH	_____.	_____.
0288	SPV.0060 Special 17. Marking Symbol Grooved Bike Lane Preformed Thermoplastic	12.000 EACH	_____.	_____.
0290	SPV.0060 Special 18. Marking Arrow Grooved Bike Lane Preformed Thermoplastic	10.000 EACH	_____.	_____.
0292	SPV.0060 Special 19. Bench	6.000 EACH	_____.	_____.
0294	SPV.0060 Special 20. Trash Receptacle	3.000 EACH	_____.	_____.
0296	SPV.0060 Special 21. Recycling Receptacle	3.000 EACH	_____.	_____.
0298	SPV.0060 Special 22. Bicycle Rack	5.000 EACH	_____.	_____.
0300	SPV.0060 Special 23. Round Steel Sign Post System	5.000 EACH	_____.	_____.
0302	SPV.0060 Special 24. Catmint, Walker's Low 1 Gal CG	22.000 EACH	_____.	_____.
0304	SPV.0060 Special 25. Daylily, Strawberry Candy 1 Gal CG	42.000 EACH	_____.	_____.
0306	SPV.0060 Special 26. Daylily, Hyperion 1 Gal CG	12.000 EACH	_____.	_____.
0308	SPV.0060 Special 27. Feather Reed Grass 1 Gal CG	10.000 EACH	_____.	_____.
0310	SPV.0060 Special 28. Prairie Dropseed, Tara Dwarf 4" Pot CG	22.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0312	SPV.0060 Special 29. Switchgrass, Shenandoah 1 Gal CG	12.000 EACH	_____.	_____.
0314	SPV.0060 Special 30. Daffodil, Dutch Master Min 4" Circ Bulb	84.000 EACH	_____.	_____.
0316	SPV.0060 Special 31. Daffodil, Yellow Jonquils Min 4" Circ Bulb	63.000 EACH	_____.	_____.
0318	SPV.0060 Special 32. Tulip, Albert Heijn Min 4" Circ Bulb	213.000 EACH	_____.	_____.
0320	SPV.0060 Special 33. Concrete Base Type 5, 24-Inch	12.000 EACH	_____.	_____.
0322	SPV.0060 Special 34. Concrete Base Type 5, 30-Inch	10.000 EACH	_____.	_____.
0324	SPV.0090 Special 01. 6-Inch PVC Storm Sewer Lateral	128.000 LF	_____.	_____.
0326	SPV.0090 Special 02. 8-Inch PVC Storm Sewer Lateral	88.000 LF	_____.	_____.
0328	SPV.0090 Special 03. Concrete Curb & Gutter Integral 31-Inch	412.000 LF	_____.	_____.
0330	SPV.0090 Special 04. Sanitary Sewer Relay SDR 35 PVC SP 8-Inch	906.000 LF	_____.	_____.
0332	SPV.0090 Special 05. Building Sanitary Sewer 6-Inch	494.000 LF	_____.	_____.
0334	SPV.0090 Special 06. Water Main Relay, 6-Inch	173.000 LF	_____.	_____.
0336	SPV.0090 Special 07. Water Main Relay, 8-Inch	907.000 LF	_____.	_____.
0338	SPV.0090 Special 08. Water Service Copper 1-Inch	331.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20221213018 Project(s): 2410-13-70

Federal ID(s): WISC 2023099

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0340	SPV.0090 Special 09. Water Service Copper 2-Inch	52.000 LF	_____.	_____.
0342	SPV.0090 Special 10. Precast Concrete Planter Curbing	149.000 LF	_____.	_____.
0344	SPV.0165 Special 01. 3X12 Concrete Pavers over Concrete Base	1,626.000 SF	_____.	_____.
0346	SPV.0165 Special 02. 6X24 Concrete Pavers over Concrete Base	2,530.000 SF	_____.	_____.
0348	SPV.0165 Special 03. High Friction Green Surfacing	1,921.000 SF	_____.	_____.
0350	SPV.0165 Special 04. Wall Modular Block Gravity Landscape, STA. 9+40	275.000 SF	_____.	_____.
0352	SPV.0180 Special 01. Shredded Hardwood Bark Mulch	1,361.000 SY	_____.	_____.
0354	SPV.0195 Special 01. Management of Solid Waste	311.000 TON	_____.	_____.
0356	SPV.0200 Special 01. Sanitary Manhole 48-Inch Diameter	43.000 VF	_____.	_____.
0358	644.1440 Temporary Pedestrian Surface Matting	1,000.000 SF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.